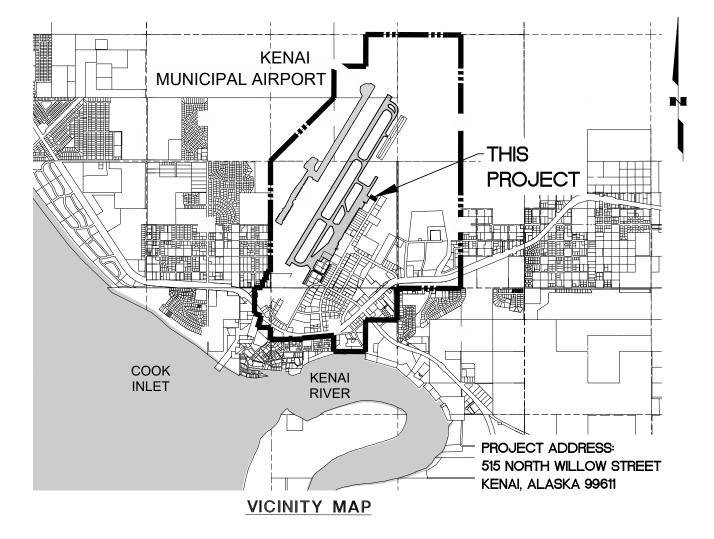
Borrow Arctic Circle Nome Nome Nome Pacific Ocean River Anchorage KENAI, ALASKA Pacific Ocean

KENAI MUNICIPAL AIRPORT SAND STORAGE BUILDING KENAI, ALASKA



LOCATION MAP



SHEET INDEX

ALTERNATIVE 1

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MECHANICAL SCHEDULES
RADIANT FLOOR HEATING PLAN
PLUMBING, HEATING &
VENTILATION PLANS
SCHEMATICS & DETAILS

LEGEND, ONE—LINE, FIXTURE
SCHEDULE, CALCULATIONS, AND
DETAILS
ELECTRICAL DEMOLITION SITE
PLAN
SAND STORAGE BUILDING
LIGHTING PLAN
ELECTRICAL REMODEL SITE PLAN
SAND STORAGE BUILDING POWER
AND SIGNAL PLAN
ENLARGED LIGHTING PLAN AND
ELECTRICAL DETAILS
PANEL SCHEDULES
SLIDING GATE ELECTRICAL

LEGEND & SITE PLAN GATE PLAN AND DETAILS SAND STORAGE BUILDIN
KENAI MUNICIPAL

AIRPORT

SHEET TITLE
COVER SHEET AND
DRAWING INDEX

G1.01

DRAWN BY: CHECKED BY: MRS

DATE: SCALE:
08/05/20 AS SHOWN
30B NUMBER:
20-009-01

CIVIL GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT
- THE LOCATION OF EXISTING FEATURES, SERVICE LINES, UTILITIES, ETC. IN THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FIELD VERIFICATION OF ALL BURIED AND OVERHEAD UTILITIES FROM THE APPROPRIATE UTILITY COMPANIES OR AUTHORITIES. THE CONTRACTOR SHALL CONTACT THE LOCATE CALL CENTER OF ALASKA, AS WELL AS ANY NON-PARTICIPATING UTILITIES, TO FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DIGGING, OTHERWISE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ASSOCIATED WITH WORKING AROUND UTILITIES DIFFERENT THAN WHAT IS SHOWN ON THE PLANS.
- UTILITY LINES OCCUR WITHIN THE PROJECT AREA. CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UTILITY LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL
- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE GENERAL REQUIREMENTS THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS, SUBCONTRACTORS, SUPPLIERS, PROPERTY, AND TRAFFIC SAFETY. THE CONTRACTOR SHALL ALSO HAVE SOLE AND COMPLETE AND COMPLETE RESPONSIBILITY OF STORM WATER MANAGEMENT. THESE REQUIREMENTS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING, PAYING FOR, AND COORDINATING ALL INSPECTIONS REQUIRED BY THE BUILDING PERMIT. THE ENGINEER WILL PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH IBC
- THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- OTHER CONTRACTORS OR THE UTILITY COMPANIES MAY BE WORKING ON THE SAME PROJECT SITE OR IN THE VICINITY DURING THE PROGRESS OF THIS CONTRACT'S WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS OR UTILITY COMPANIES WORKING IN THE
- TOPOGRAPHIC SURVEY INFORMATION WAS PREPARED FROM A FIELD SURVEY CONDUCTED BY HDL ENGINEERING CONSULTANTS, LLC DATED
- 10. SEE SHEET G1.05 FOR BASIS OF HORIZONTAL AND VERTICAL CONTROL.
- 11. ALL SURVEYING AND LAYOUT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- 12. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWINGS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE PLANS AND SUBMIT DAILY SURVEY NOTES TO THE ENGINEER
- 13. CONTRACTOR SHALL PROTECT ALL MONUMENTS AND PROPERTY CORNERS. DAMAGED/MOVED MONUMENTS AND CORNERS. WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS, SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH CURRENT ALASKA STATUTE.
- 14. GEOTECHNICAL INFORMATION AND FOUNDATION RECOMMENDATIONS FOR THIS PROJECT WERE TAKEN FROM HDL'S MAY 2020 REPORT TITLED "GEOTECHNICAL REPORT FOR KENAI MUNICIPAL AIRPORTS SAND STORAGE BUILDING".

- 15. ALL CONSTRUCTION ACTIVITIES, EXCAVATED MATERIAL, EQUIPMENT STORAGE, ETC. SHALL REMAIN WITHIN THE LIMITS OF THE AREA DISTURBED BY CONSTRUCTION OR AT THE IDENTIFIED STAGING AREA. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO ALL STRUCTURES AT
- 16. CONTRACTOR SHALL USE ONLY APPROVED HAUL ROUTES AS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN. CONTRACTOR SHALL MAINTAIN HAUL ROUTES AND SHALL REPAIR ANY DAMAGE TO THE ROUTE SURFACE IN ACCORDANCE WITH THE PROJECT MANUAL OR AS DIRECTED BY THE ENGINEER TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- 17. HAUL ROUTES FOR REMOVAL AND DELIVERY OF MATERIALS SHALL UTILIZE EXISTING ROADWAYS. MUD AND DEBRIS TRACKED ONTO ROADWAYS SHALL BE PROMPTLY REMOVED. TRAFFIC LAWS ARE TO BE OBEYED AT ALL
- 18. CONTRACTOR SHALL PROVIDE ALL PERMITS WHICH ARE NOT SPECIFICALLY INDICATED AS PROVIDED BY THE OWNER IN THE SPECIFICATIONS.
- 19. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC, OSHA, AND ALL OTHER FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- 20. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT (ROADS, PARKING AREAS, ETC.,) TO A LINE 2 FEET BEYOND THE PROPOSED IMPROVEMENTS, AND MORÉ IF NECESSARY, DURING THE INITIAL EXCAVATION OPERATIONS. IF EXISTING PAVEMENT HAS BEEN LIFTED, IF EDGE DOES NOT OCCUR IN UNDISTURBED MATERIAL, OR IF EDGE IS LOCATED WITHIN A TRAVEL LANE, FURTHER REMOVAL MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A PROPER TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. SAW CUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO PAVEMENT REMOVAL, AND NO SEPARATE PAYMENT SHALL BE MADE.
- 21. CONTRACTOR SHALL APPLY JOINT SEALANT TO THE SAW CUT ASPHALT PRIOR TO PAVING.
- 22. THE ENGINEER MAY DIRECT THE CONTRACTOR IN WRITING TO REMOVE ADDITIONAL MATERIAL BEYOND THE LIMITS OF EXCAVATION IF IT IS DETERMINED TO BE IN THE BEST INTEREST OF THE OWNER. CONTRACTOR SHALL REMOVE SAID MATERIAL AND REPLACE WITH SUITABLE MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.
- 23. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY
- CONTRACTOR SHALL MAINTAIN STOP SIGNS AND STREET SIGNS OPERATIONAL IN THE PROJECT AREA DURING CONSTRUCTION.
- WORK AND MATERIAL REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 26. CONTRACTOR SHALL ESTABLISH, PROVIDE AND MAINTAIN AN EFFECTIVE STORM WATER POLLUTION PREVENTION PROGRAM AND DUST PROGRAM IN ACCORDANCE WITH SECTION 01 57 13 OF THE CONTRACT SPECIFICATIONS.
- 27. THE CONTRACTOR SHALL ESTABLISH, PROVIDE, AND MAINTAIN A QUALITY CONTROL PROGRAM IN ACCORDANCE WITH THE PROJECT MANUAL
- 28. CONTRACTOR SHALL MAINTAIN "REDLINE' RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH THE PROJECT MANUAL. THE CONTRACTOR SHALL MAINTAIN "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE.
- RESTORE DISTURBED PROPERTY TO 29. CONTRACTOR SHALL PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORING DISTURBÉD PROPERTY IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 30. CONTRACTOR SHALL TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED, AS DIRECTED BY THE ENGINEER.

DESCRIPTION OF WORK

PHASE 1: SCHEDULE A - SITE PREPARATION (BASE BID)

ALL WORK NECESSARY TO CLEAR, GRUB, EXCAVATE, AND INSTALL FILL IN PROJECT AREA TO TOP OF SUBBASE ELEVATION. WORK ALSO INCLUDES CONSTRUCTING WATER SERVICE, RAIN LEADER EXTENSIONS, INFILTRATION BASIN, BOILER CONDENSATE DRAIN LINE AND LEACH FIELD, FENCING, TOP SEEDING AND OTHER RELATED WORK. EXTEND SERVICE LINES TO WITHIN 5-FEET OF NEW BUILDING. COORDINATE WITH UTILITY COMPINES FOR OTHER UTILITY INSTALLATION AND RELOCATIONS.

PHASE 2: SCHEDULE B - SAND STORAGE BUILDING (BASE BID)

ALL REMAINING WORK REQUIRED TO PROVIDE A FULL FUNCATIONAL SAND STORAGE BUILDING AS SHOWN.

SCHEDULE C - 30' ALUMINUM, SLIDING GATE (ADDITIONAL ALTERNATE 1)

DEMOLISH EXISTING VEHICLE GATE AND FURNISH AND INSTALL 30' ALUMINUM SLIDING GATE AS SHOWN



ENGINEERING Consultants L

AIRP Bl

ENA

CIVIL GENERAL IOTES

G1 02

WN BY: CHECKED BY: MRS

CALL BEFORE YOU DIG!

THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY
COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION

LOCATE CALL CENTER OF ALASKA

1-800-478-312

ABBREVIATIONS

ASPHALT CONCRETE

ADA AMERICANS WITH DISABILITIES ACT ADEC ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION ADOT ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC

AFSS KENAI FLIGHT SERVICE STATION

ALUMINUM APPROX APPROXIMATELY

ARFF AIRCRAFT RESCUE AND FIRE FIGHTING AMERICAN STANDARD TESTING MATERIALS ASTM BLK BLOCK

BUILDING RESTRICTION LINE BRL © ,CL CENTERLINE

CUBIC FOOT CMP

CORRUGATED METAL PIPE CLEANOUT CO

CONTINUED CONT'D

CONSTRUCTION SAFETY AND PHASING PLAN CSPP

CY CUBIC YARDS DEMO DEMOLISH EAST, EASTING EΑ FACH EL, ELEV ELEVATION ELEC ELECTRICAL EOA EDGE OF ASPHALT

EOP EDGE OF PAVEMENT, END OF PROJECT

EW EACH WAY EXISTING EXIST

FEDERAL AVIATION ADMINISTRATION FAA FINAL APPROACH AND TAKEOFF AREA FATO

FF FINISHED FLOOR FG FINISHED GRADE FO FIBER OPTIC, FACE OF FEET

FT GAL GALLON GALV GALVANIZED GB GRADE BREAK GV GATE VALVE

HDPE HIGH DENSITY POLYETHYLENE HOMER ELECTRICAL ASSOCIATION HEA

HR HOUR

HORZ

INTERNATIONAL BUILDING CODE IBC

HORIZONTAL

IN INCH, INSERT INV PIPE INVERT LB POUND LT LEFT LF LINEAR FEET MAX MAXIMUM ME MATCH EXISTING МН MANHOLE MIN MINIMUM

MISCELLANEOUS MISC NORTH, NORTHING NE NORTHEAST

NES NOMBEROST SUSCEPTIBLE NTS NOT TO SCALE

ABBREVIATIONS CONTINUED

0.D. OUTER DIAMETER OVERHEAD WIRE OHW AIRPORT OPERATIONS OPS

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OSHA OWSIM ONSITE WASTEWATER SYSTEM INSTALLATION MANUAL

PVMT PAVEMENT R. RAD RADIUS REQ'D REQUIRED ROAD RAIN LEADER

RD

RL

ROFA

UNO

RUNWAY OBJECT FREE AREA RIGHT-OF-WAY

ROW RIGHT-OF-WAY R/W RIGHT SOUTH SCH SCHEDULE SF SQUARE FOOT

SPCD SAFETY PLAN COMPLIANCE DOCUMENT SPEC

SPECIFICATION

SANITARY SEWER, STAINLESS STEEL SS SANITARY SEWER MANHOLE SSMH

ST STREET STA SURVEY STATION SY SQUARE YARDS

TCE TEMPORARY CONSTRUCTION EASEMENT TCP

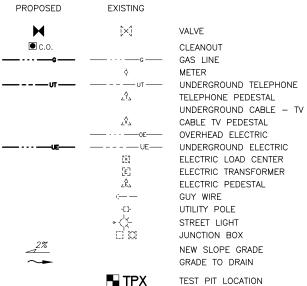
UNLESS NOTED OTHERWISE

TRAFFIC CONTROL PLAN

TELE TELEPHONE TAXIWAY OBJECT FREE AREA **TOFA** TYP **TYPICAL**

VΒ VALVE BOX VERT VERTICAL WFST WITH

LEGEND (UNLESS NOTED OTHERWISE)



TPX FENCE SIGN $\bigcirc *$ TREE LIMITS OF VEGETATION

. POST MISC \oplus MONUMENT W/BRASS OR AL CAP Φ MONUMENT W/PLASTIC CAP REBAR \circ IRON PIPE CONTROL POINT TEMPORARY BENCH MARK

SPIKE 222222 BUILDING AC PAVEMENT

SENTER. GRAVEL CONCRETE

INSULATION CUT CONDITION CATCH POINT FILL CONDITION CATCH POINT

> >

TOPSOIL & SEED (PROFILE) TOPSOIL & SEED (PLAN)

LEGEND CONTINUED

PROPOSED	EXISTING	
		PROPERTY LINE
		EASEMENT
		CENTERLINE
		EDGE OF PAVEMENT
244		MINOR CONTOUR
250		MAJOR CONTOUR
ss	—— SS —— —	SANITARY SEWER PIPE
	© ^{ssw} H	SANITARY SEWER MANHOLE
	O ^{SSCO}	SANITARY SEWER CLEANOUT
	© _{SDM} H	STORM DRAIN MANHOLE
	IIII	INLET BOXES
ightharpoons	D======≾	CULVERT
w	w	WATER MAIN
		RAIN LEADER
$\sim\sim\sim$		CLEARING & GRUBBING LIMITS

GRADE BREAK



ABBREVIATIONS, AND LEGEND

G1.03RAWN BY: CHECKED BY:

KK MRS

CALL BEFORE YOU DIG!

THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY
COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION

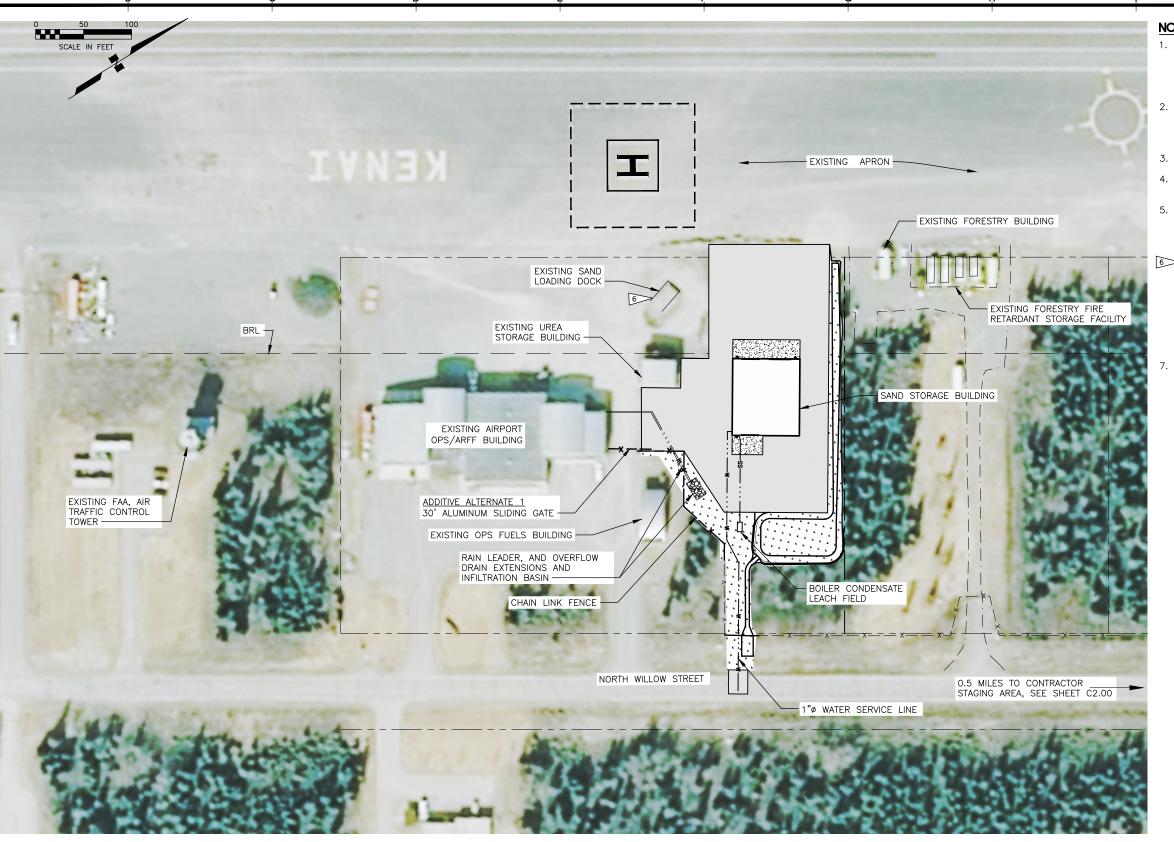
LOCATE CALL CENTER OF ALASKA 1-800-478-312

AIRPORT

MUNICIPAL

ENGINEERING Consultants Lt

KENAI



NOTES:

- SEE SHEETS G1.02 AND G1.03 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND. SEE SHEET G2.00-G2.01 FOR CONSTRUCTION PHASING AND SAFETY REQUIREMENTS.
- EXISTING UTILITIES AND NEW ELECTRICAL UTILITIES NOT SHOWN FOR CLARITY. FIELD LOCATE AND COORDINATE NEW WORK WITH UTILITIES AS REQUIRED.
- SEE SHEET C1.03 FOR GRADING PLAN.
- SEE SHEETS C1.05 AND C1.06 FOR TYPICAL SECTIONS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND OTHER FACILITIES AS NEEDED TO SUPPORT CONSTRUCTION.
- EXISTING SAND LOADING DOCK IS AVAILABLE FOR CONTRACTOR'S USE DURING CONSTRUCTION PROVIDED USE AND ACCESS IS COORDINATED WITH KENAI AIRPORT OPERATIONS PERSONNEL. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE LOADING DOCK TO THE TO THE LOADING DOCK TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- NEW GAS AND ELECTRIC SERVICES NOT SHOWN FOR CLARITY. COORDINATE LOCATION AND INSTALLATION WITH ENSTAR AND HEA, RESPECTIVELY.



AIRPORT BUILDING

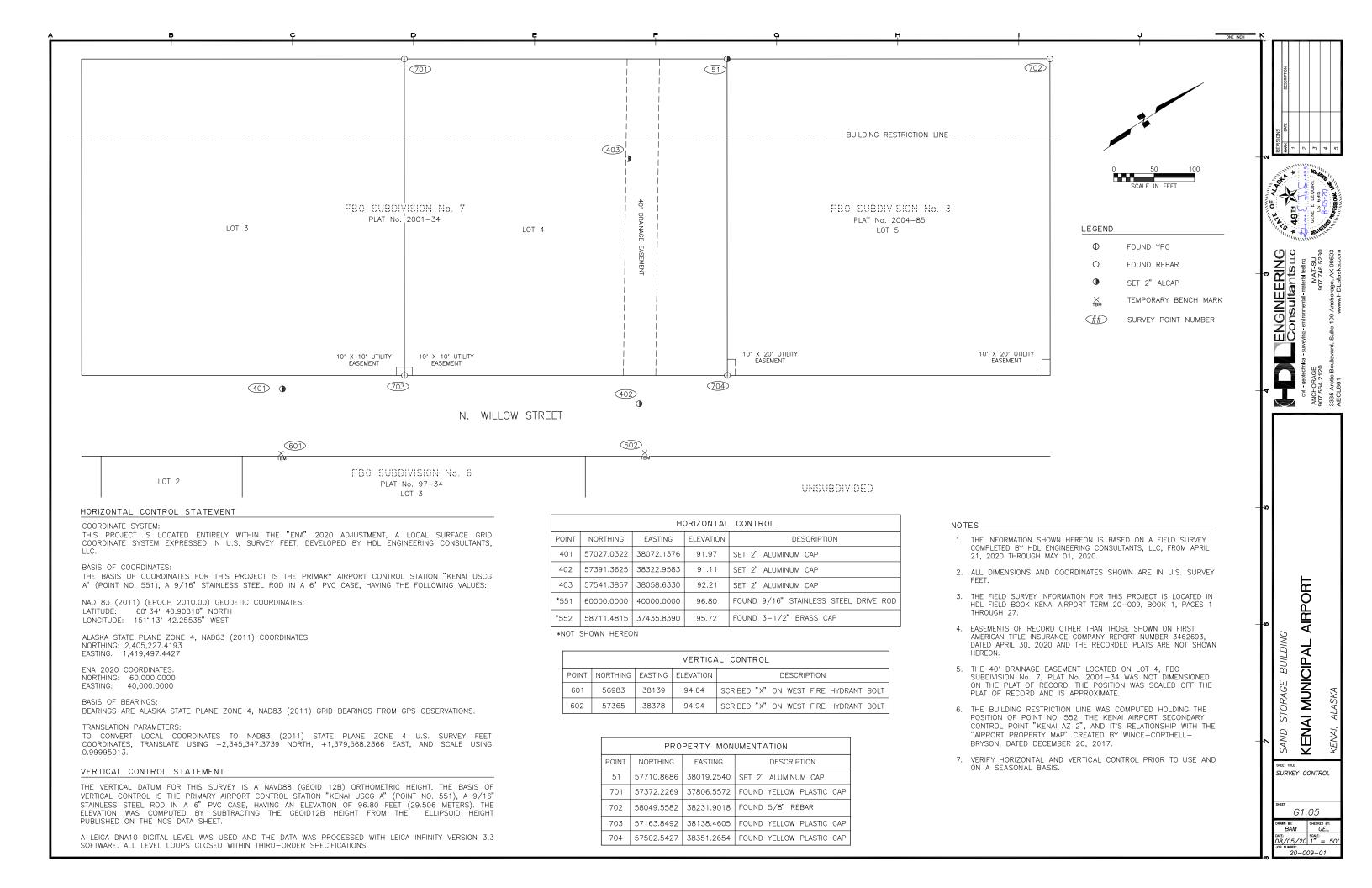
KENAI MUNICIPAL

PROJECT LAYOUT PLAN

G1.04

PROJECT LAYOUT PLAN

SCALE: 1" = 50'



PROJECT GENERAL SAFETY REQUIREMENTS (ALL WORK AREAS):

- 1. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AND SHALL COMPLY WITH PROJECT PLANS, SPECIFICATIONS, AND FAA ADVISORY CIRCULAR AC 150/5370-2G OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- 2. SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) PER FAA AC 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION (SAFETY AC), TO THE ENGINEER FOR REVIEW. DO NOT BEGIN CONSTRUCTION ACTIVITIES UNTIL THE ENGINEER APPROVES THE SPCD IN WRITING. ALLOW 30 DAYS FOR INITIAL REVIEW. INCLUDE CONSTRUCTION SEQUENCING. IF PLAN DIFFERS FROM WHAT IS SHOWN ON THE CSPP, OR IF SUBSEQUENT CHANGES ARE MADE, SUBMIT A REVISION TO THE ENGINEER FOR APPROVAL.
- ALLOW 5 DAYS FOR REVIEW OF REVISED SPCD. MAJOR CHANGES TO THE SPCD MAY REQUIRE RE-EVALUATION BY THE FAA. SEE EXHIBIT D OF THE SUPPLEMENTAL CONDITIONS FOR THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) DOCUMENT, AND MORE INFORMATION ON THE REQUIREMENTS OF THE SAFETY AC AND SPCD. SEE SECTION 1.4.3 OF AC 150/5370-2G FOR A SUMMARIZED GENERAL LIST OF CONTRACTOR RESPONSIBILITIES REGARDING SAFETY
- WHENEVER THE PLANS OR SPECIFICATIONS CALL FOR COORDINATION, NOTIFICATION, CONTACT, OTHER INTERACTION WITH THE FAA, AIRPORT MANAGEMENT, MAINTENANCE AND OPERATIONS, AIRPORT SECURITY SYSTEM MAINTENANCE CONTRACTORS, AIRPORT TENANTS, AIRPORT USERS, AND LOCAL, STATE, OR FEDERAL AGENCY, GROUP, OR ASSOCIATION, OR THE GENERAL PUBLIC, SUCH ACTIVITY SHALL BE DONE IN PRÉSENCE OF, OR WITH THE WRITTEN APPROVAL OF THE ENGINEER. ALLOW SUFFICIENT TIME FOR COORDINATION AND APPROVALS WITHIN PROPOSED WORK SCHEDULES.
- NOTIFICATION TO ALL AFFECTED AIRPORT LEASEHOLDERS IS REQUIRED FOR ROAD CLOSURES AND NEW TRAFFIC PATTERNS. COORDINATE FIRST LEASEHOLDER NOTIFICATIONS 45 DAYS PRIOR TO BEGINNING OF WORK. SEE CSPP FOR ADDITIONAL LEASEHOLDER NOTIFICATIONS. CONTRACTOR SHALL ASSUME THAT ALMOST CONTINUOUS LEASEHOLDER AND BUSINESS COORDINATION WILL BE REQUIRED DURING CONSTRUCTION AND SHALL PLAN AND BUDGET
- DELINEATE WORK AREA ON THE APRON WITH LOW PROFILE BARRICADES. INSTALL TRAFFIC CONTROL DEVICES (FLAGGERS, SIGNAGE, BARRIERS, ETC.) AT ALL HAUL ROUTE INTERSECTIONS WITH OPEN ROADS IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED SPCD AND TRAFFIC CONTROL PLAN.
- A SAFETY MEETING SHALL BE HELD EVERY DAY PRIOR TO WORK TO DISCUSS COMMUNICATION, WORK OPERATIONS, MATERIAL HAUL, MOBILIZATION, AND ANY OTHER TOPIC RELATING TO PROJECT SAFETY. CONTRACTOR AND SUBCONTRACTORS SHALL ATTEND.
- COORDINATE START DATE WITH THE ENGINEER AT LEAST 3 DAYS PRIOR TO STARTING WORK SO THAT THE AIRPORT CAN ISSUE NOTAMS AND COORDINATE WITH LEASE LOT HOLDERS. NO WORK SHALL BEGIN UNTIL ACCESS IS GRANTED BY THE AIRPORT.
- CONSTRUCTION ACTIVITIES FOR THIS PROJECT OCCUR WITHIN THE HELIPAD SAFETY AREA AND REQUIRES CLOSURE OF THE HELIPAD, FOLLOW PROCEDURES FOR STATUS CHANGE INCLUDED ON SHEET G2.01. IN CASE OF EMERGENCY, THE CONTRACTOR SHALL REMOVE CLOSURE MATERIALS AND OPEN HELIPAD FOR OPERATIONS WITHIN 15 MINUTES OF NOTIFICATION.
- 10. WHILE HELIPAD IS OPERATIONAL, CONTRACTOR SHALL NOT CONDUCT WORK ACTIVITIES WITHIN THE LIMITED ACCESS AREA.
- 11. NO MATERIAL OR EQUIPMENT SHALL BE STAGED OR STORED WITHIN THE LIMITED ACCESS
- 12. PROVIDE UNOBSTRUCTED ACCESS TO ALL AIRPORT OPERATIONS NEAR AND ADJACENT TO
- 13. <u>CONTRACTOR IS PROHIBITED TO ENTER PAVED AIRFIELD AREAS OUTSIDE THE DELINEATED WORK AREA</u> WITHOUT APPROVAL FROM THE AIRPORT MANAGER AND PERMISSION FROM THE ATCT FOR EACH OCCURRENCE.
- 14. ALL PERSONS AND EQUIPMENT WORKING WITHIN THE AIRPORT PROPERTY SHALL REMAIN IN CONSTANT RADIO CONTACT WITH THE CONTRACTOR'S SAFETY MANAGER USING A RADIO FREQUENCY OTHER THAN THE AVIATION RADIO BAND APPROVED FOR USE BY THE FEDERAL COMMUNICATIONS COMMISSION.
- 15. THE CONTRACTOR'S SAFETY MANAGER, ADDITIONAL SAFETY PERSONNEL, AND SUPERINTENDENT SHALL HAVE A 2-WAY RADIO AND CONTINUOUSLY MONITOR KENAI GROUND FREQUENCY (118.75) WHILE WORK IS OCCURRING. MONITOR COMMON TRAFFIC ADVISORY FREQUENCY (CTAF, 121.3) ANY TIME TOWER IS CLOSED. SEE CONSTRUCTION SAFETY AND PHASING PLAN IN THE PROJECT MANUAL FOR ADDITIONAL RADIO COMMUNICATION REQUIREMENTS.
- 16. CONTRACTOR SHALL KEEP ACTIVE PAVED SURFACES CLEAR OF CONSTRUCTION MATERIALS, FOREIGN OBJECTS, DIRT, GRAVEL, AND DEBRIS. REMOVE MATERIALS FROM ACTIVE PAVED SURFACES WITHIN 15 MINUTES OF VERBAL NOTICE FROM THE AIRPORT MANAGER OR HIS REPRESENTATIVE. CONTRACTOR SHALL INSPECT THE HAUL ROUTES EVERY 4 HOURS WORK IS PERFORMED AND AT END OF EACH SHIFT. REMOVE ALL SPILLED MATERIAL AND SWEEP AND
- 17. USE OF HAUL ROUTES AS SHOWN ON THE SAFETY PLANS IS MANDATORY. NO HAUL VEHICLES OR EQUIPMENT SHALL BE PERMITTED ON OPEN APRONS, RUNWAYS OR TAXIWAYS. HAUL TRUCKS AND CONSTRUCTION VEHICLES MUST YIELD TO ALL ROADWAY, PEDESTRIAN, AND AIRPORT TRAFFIC. HAUL VEHICLES SHALL NOT ENTER ONTO THE AIRPORT OPERATIONS AREA. CONTRACTOR SHALL REPAIR ANY DAMAGE TO HAUL ROUTES AT NO ADDITIONAL COST TO THE

- 18. RETURN STAGING AREA, HAUL ROUTES, AND OTHER DISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION TO PRE-PROJECT CONDITION UPON COMPLETION OF THE WORK
- 19. CONTRACTOR IS NOT PERMITTED ON ANY AIRPORT AREA OTHER THAN PUBLIC ROADS OR AREAS DESIGNATED ON THE SAFETY PLAN DRAWINGS AS A WORK AREA OR HAUL ROUTE, WITHOUT PERMISSION FROM THE AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE.
- 20. CONTRACTOR SHALL SECURE ALL GATES OR OPEN FENCE AREAS TO MAINTAIN A SECURE PERIMETER THROUGHOUT CONSTRUCTION. ANY OPENINGS REQUIRED FOR CONSTRUCTION SHALL BE ATTENDED TO PREVENT ENTRY OF UNAUTHORIZED PERSONNEL ONTO THE AIRFIELD.
- 21. ALL CONSTRUCTION AREAS ON APRONS SHALL BE DELINEATED WITH REFLECTIVE WEIGHTED CONES OR LOW PROFILE BARRICADES. LOW PROFILE BARRICADES SHALL BE IN ACCORDANCE WITH FAA AC 150/5370-2G. EVERY LOW PROFILE BARRICADE SHALL BE EQUIPPED WITH A CAUTION FLAG AND EVERY OTHER LOW PROFILE BARRICADE SHALL BE EQUIPPED WITH A RED FLASHING CONSTRUCTION LIGHT. LOW PROFILE BARRICADES SHALL BE PLACED 8 FEET APART. CONES SHALL BE PLACED 3 FEET APART.
- 22. SIGNS, CONES, BARRIERS, AND MARKERS SHALL BE ANCHORED OR WEIGHTED TO PREVENT MOVEMENT FROM HIGH WINDS, PROPELLER BLAST, OR JET BLAST, CONTRACTOR SHALL PERFORM NECESSARY MEASURES TO PROTECT ASPHALT FROM DAMAGE DUE TO WEIGHTED
- 23. THE ENGINEER MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DEVICES AND SIGNAGE ALONG THE HAUL ROUTE AND AROUND THE WORK AREAS AS THE NEED ARISES DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE THIS SIGNAGE AT NO ADDITIONAL COST TO THE OWNER.

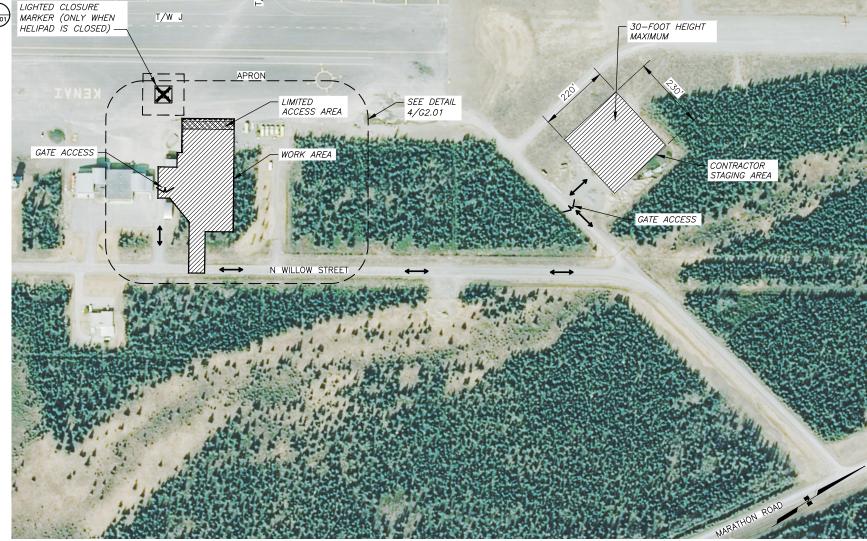
LEGEND

HAUL ROUTE ACCESS GATE

W

- 24. SIGNS SHALL MEET THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE ALASKA SIGN DESIGN SPECIFICATIONS.
- 25. REPORT ANY SAFETY ISSUES TO THE ENGINEER UPON DISCOVERY. TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.
- 26. CONTRACTOR SHALL PERFORM DUST MONITORING ON A DAILY BASIS AND IMMEDIATELY PROVIDE WATER FOR DUST CONTROL AS REQUIRED AND AS DIRECTED BY THE ENGINEER. DUST, SMOKE, STEAM, OR OTHER AIRBORNE PARTICULATES CAUSED BY CONTRACTOR ACTIVITIES MAY BE CONSIDERED A SAFETY VIOLATION AS DETERMINED BY THE ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL DUST CONTROL REQUIREMENTS.
- 27. STORAGE OF EQUIPMENT OR MATERIALS ON RUNWAYS, APRONS, TAXIWAYS, OR WITHIN TAXIWAY OBJECT FREE AREAS (TOFA), OR RUNWAY OBJECT FREE AREAS (ROFA) SHALL NOT BE
- 28. PREPARE A TRAFFIC CONTROL PLAN (TCP) SPECIFIC TO CONSTRUCTION ACTIVITIES AND HAUL OPERATIONS IN ACCORDANCE WITH THE PROJECT MANUAL. TCP SHALL BE APPROVED BY THE ENGINEER AND THE CITY PRIOR TO MOBILIZING TO THE SITE OR BEGINNING CONSTRUCTION
- ALASKA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF FORESTRY SHALL HAVE PREFERENTIAL ACCESS TO ALL AREAS OF THE NORTH APRON, AS NEEDED, TO PROVIDE SUPPORT FOR FIREFIGHTING OPERATIONS, EQUIPMENT, AND PERSONNEL. CONTRACTOR SHALL ACCOMMODATE THE SPACE AND ACCESS DEMANDS OF THE FIREFIGHTING OPERATIONS, AS

RUNWAY 02R/20L









AIRPORT

CIPAL Ĭ KENAI

SAFETY & PHASING SITE PLAN

G2 00

STATUS CHANGE PROCEDURES:

THESE PROCEDURES SHALL BE FOLLOWED FOR WORK WITHIN THE LIMITED ACCESS AREA ANY TIME THE STATUS OF THE HELIPAD IS TO BE ALTERED.

- 1. CONTRACTOR NOTIFIES AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE OF UPCOMING CHANGE IN AIRPORT STATUS. PROVIDE 3 DAY ADVANCED NOTICE.
- 2. AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE FILES ALL NOTAMS.
- 3. CONTRACTOR ENSURES SAFETY PROCEDURES ARE FOLLOWED.
- 4. CONTRACTOR INSTALLS APPROVED SIGNAGE AND MARKINGS AS DETAILED IN APPROVED TRAFFIC CONTROL PLAN.
- 5. AIRPORT MANAGER OR HIS DESIGNATED REPRESENTATIVE INSPECTS AND APPROVES THE SIGNAGE AND MARKINGS.
- 6. CONTRACTOR PROCEEDS WITH HIS WORK.
- 7. CONTRACTOR SHALL PERFORM WORK AND COMMUNICATE WITH VEHICLES, KENAI FLIGHT SERVICE STATION (AFSS), AND FAA TOWER IN ACCORDANCE WITH SAFETY REQUIREMENTS IDENTIFIED IN THE PLANS, SPECIFICATIONS, AND CONTRACTOR'S SAFETY PLAN COMPLIANCE DOCUMENT (SPCD).
- 8. CONTRACTOR SHALL SECURE ALL GATES OR OPEN FENCE AREAS TO MAINTAIN SECURED PERIMETER THROUGHOUT CONSTRUCTION. ANY OPENINGS REQUIRED FOR CONSTRUCTION SHALL BE ATTENDED AT ALL TIMES TO PREVENT ENTRY OF UNAUTHORIZED PERSONNEL ONTO THE AIRFIELD.

WORK AREA NOTES:

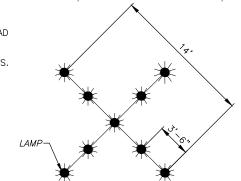
- 1. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM MONDAY THROUGH SATURDAY.
- 2. CLOSE HELIPAD AND INSTALL LIGHTED CLOSURE MARKER ANYTIME WORK IS PERFORMED IN THE LIMITED ACCESS AREA AND/OR EQUIPMENT PENETRATES THE HELIPORT TRANSITIONAL SURFACE.
- 3. REMOVE PERSONNEL AND EQUIPMENT FROM LIMITED ACCESS AREA WHEN REQUIRED FOR HELIPORT OPERATIONS AND DIRECTED BY THE OWNER. SEE NOTE 9 ON SHEET G2.00.

N WILLOW STREET

G2.01 SCALE: NTS

4 SITE LAYOUT – WORK AREA

- 4. HELIPORT AND APRON AREAS ADJACENT TO THE PROJECT ARE USED BY ALASKA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF FORESTRY FOR FIRE FIGHTING ACTIVITIES. FIRE FIGHTING AND ASSOCIATED TRAINING ACTIVITIES HAVE PRIORITY OVER CONSTRUCTION WORK AT ALL TIMES. CONTRACTOR SHALL ACCOMMODATE NEEDS OF DIVISION OF FORESTRY AND FIRE FIGHTING ACTIVITIES THROUGHOUT THE PROJECT. DURING TIMES OF INCREASED FIRE FIGHTING ACTIVITIES, SITE ACCESS MAY BE LIMITED OR RESTRICTED. MAINTAIN UNINTERRUPTED ACCESS AND UTILITIES TO DIVISION OF FORESTRY FACILITIES AT ALL TIMES.
- 5. CONTRACTOR IS ALLOWED ONE 5-DAY CLOSURE OF NORTH WILLOW STREET FOR WATER LINE CONNECTION TO THE EXISTING WATER MAIN. PRIOR TO CLOSURE OF NORTH WILLOW STREET, CONTRACTOR SHALL INSTALL DETOUR ROUTE SIGNAGE IN ACCORDANCE WITH APPROVED TRAFFIC CONTROL PLAN (TCP). MAINTAIN UNRESTRICTED ACCESS TO ALL BUSINESS LEASE LOTS, AIRPORT AREAS, AND OTHER PROPERTY ON NORTH WILLOW STREET THROUGHOUT CONSTRUCTION.

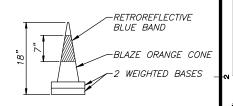


SCALE: NTS

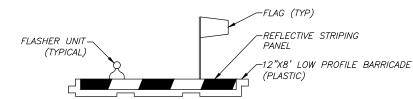
LIGHTED CLOSURE MARKER

NOTES:

- 1. LIGHTED MARKER SHALL COMPLY WITH FAA AC 150/5345-55A.
- 2. THE LIGHTED MARKER SHALL BE PLACED HORIZONTALLY AT THE CENTER OF THE HELIPAD "H" MARKER OR AS DIRECTED BY THE ENGINEER.
- 3. LIGHTED MARKER SHALL BE SECURED FROM WIND EFFECTS BY THE CONTRACTOR AND AS RECOMMENDED BY THE MANUFACTURER.
- 4. LIGHTED MARKER SHALL BE IN PLACE AND OPERATING WHENEVER HELIPAD IS CLOSED AND REMOVED WHEN RF-OPENED.

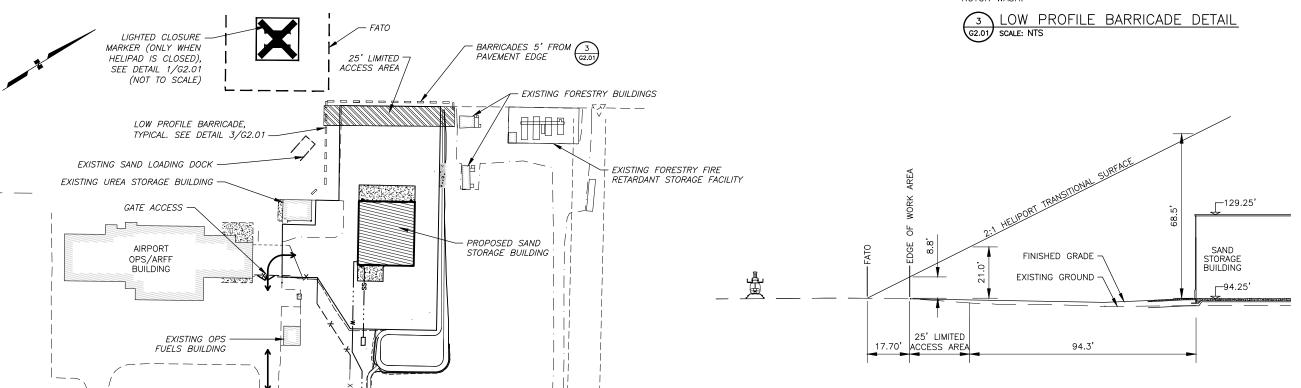






NOTES

- LOW PROFILE BARRICADES SHALL NOT BE PLACED WITHIN 20' OF THE FATO WHEN HELIPAD IS OPEN FOR OPERATIONS.
- DISTANCE BETWEEN BARRICADES CAN BE ADJUSTED FOR CONSTRUCTION TRAFFIC, NOT TO EXCEED 8'.
- 3. SECURE FLAGS AND FLASHERS TO WITHSTAND HELICOPTER



5 HELIPORT TRANSITIONAL SURFACE DETAIL
G2.01) SCALE: NTS

ORAGE BUILDING
MUNICIPAL AIRPORT

ENGINEERING Consultants L

EET TIME

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ONSTRUCTION

CONSTRUCTION
SAFETY & PHASING
PLAN —
DETAILS
SHEET

G2.01

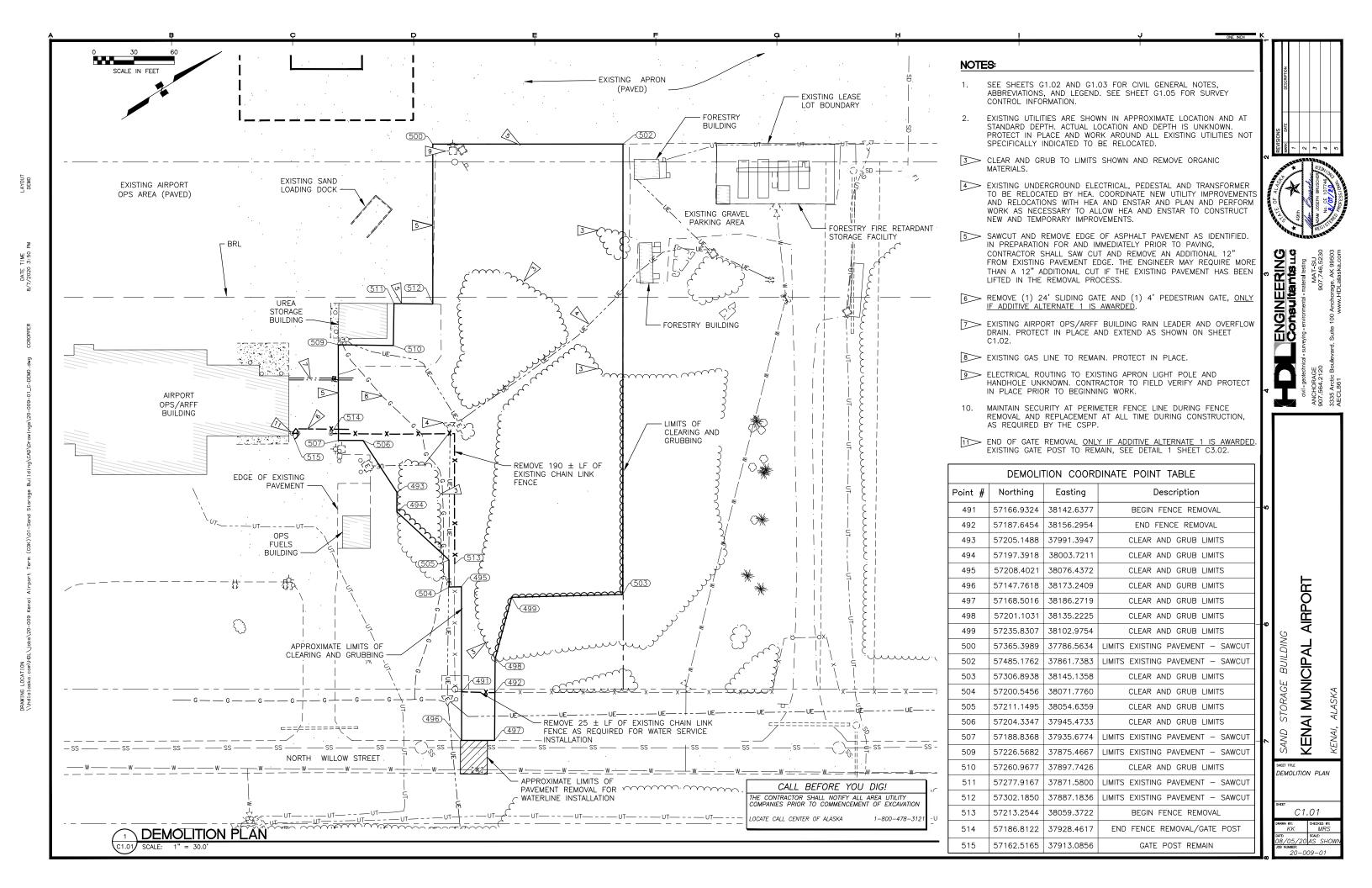
TLC MRS

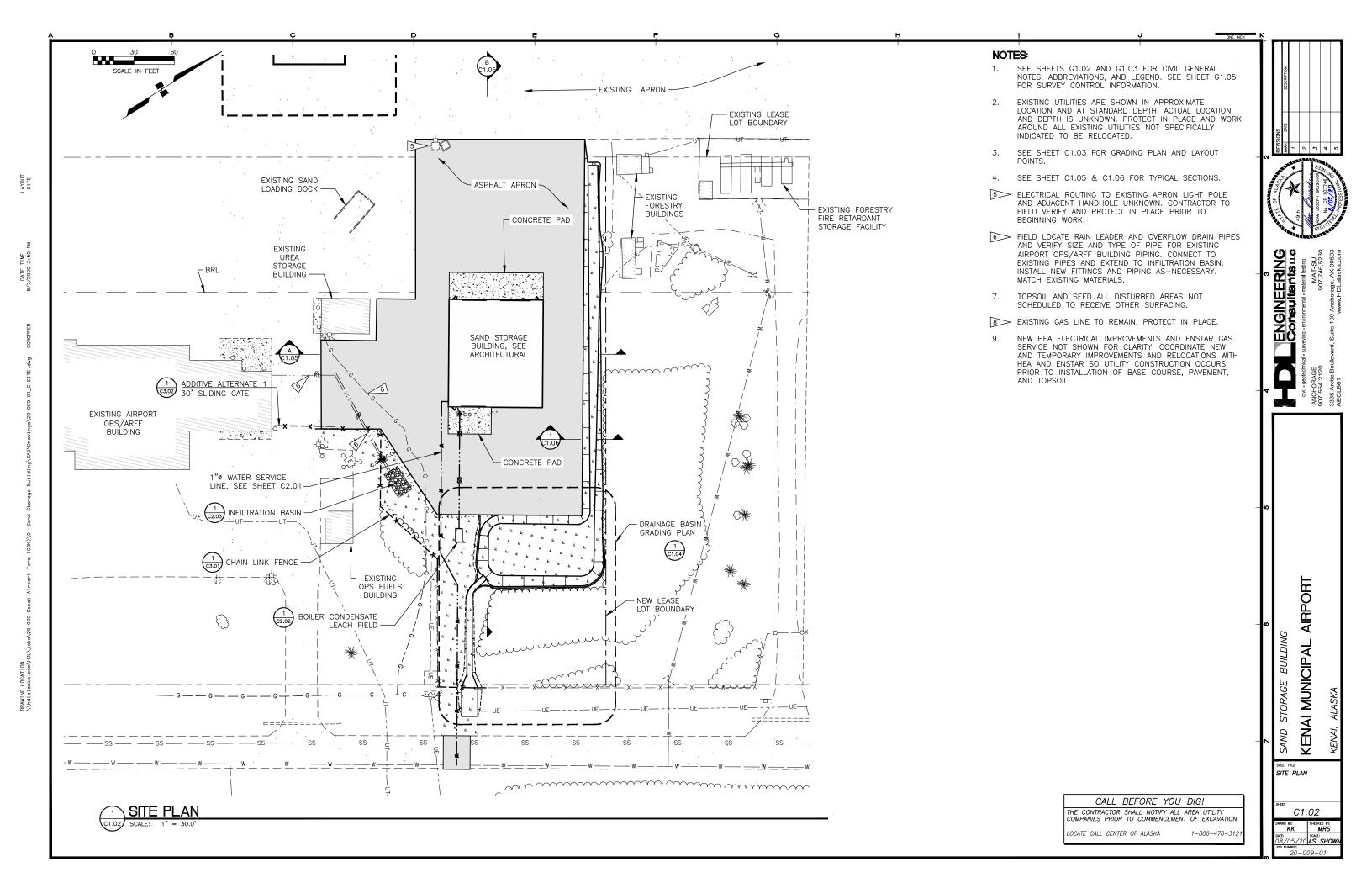
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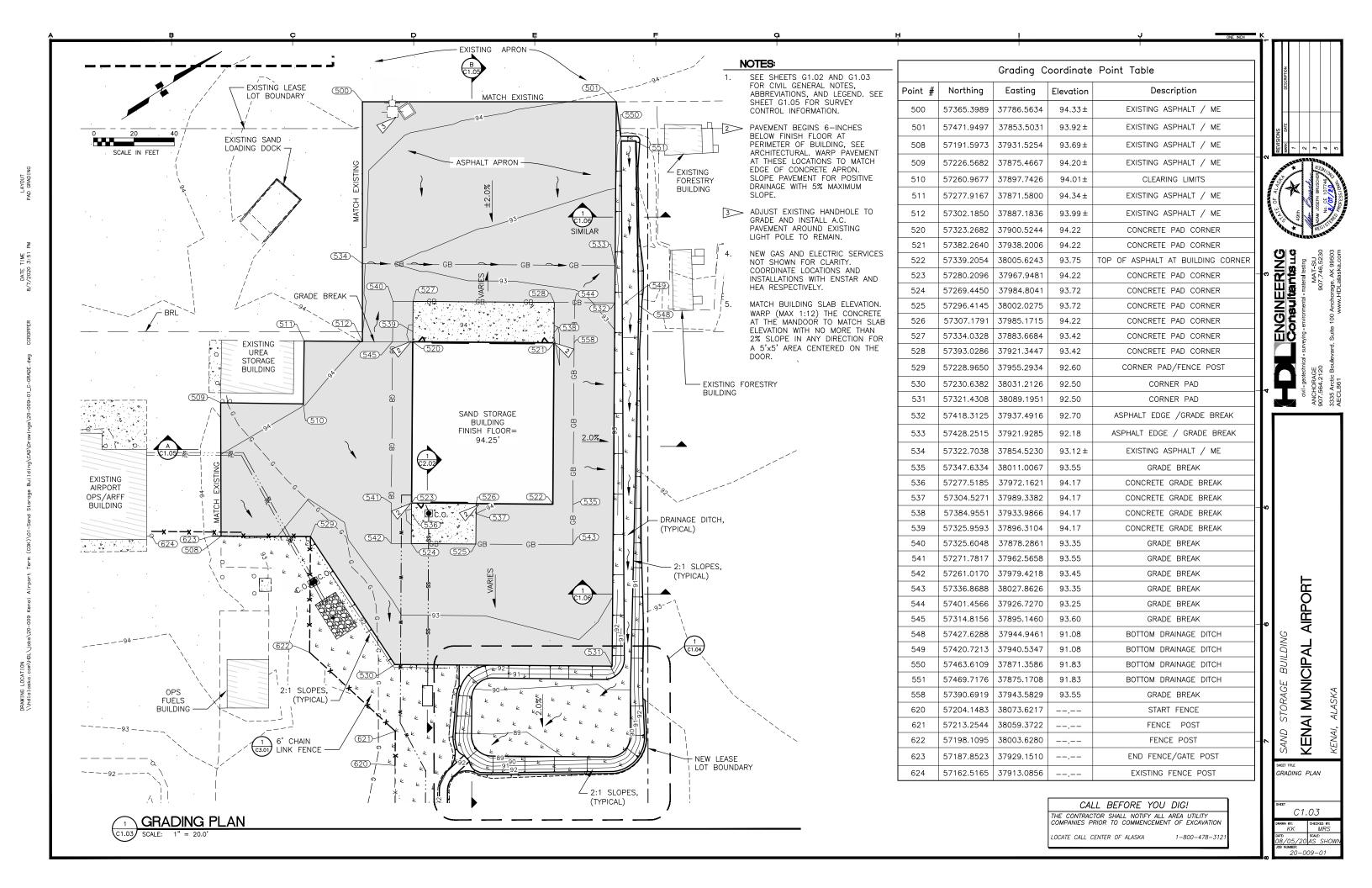
08/05/20|AS SHOW!

JOB NUMBER:

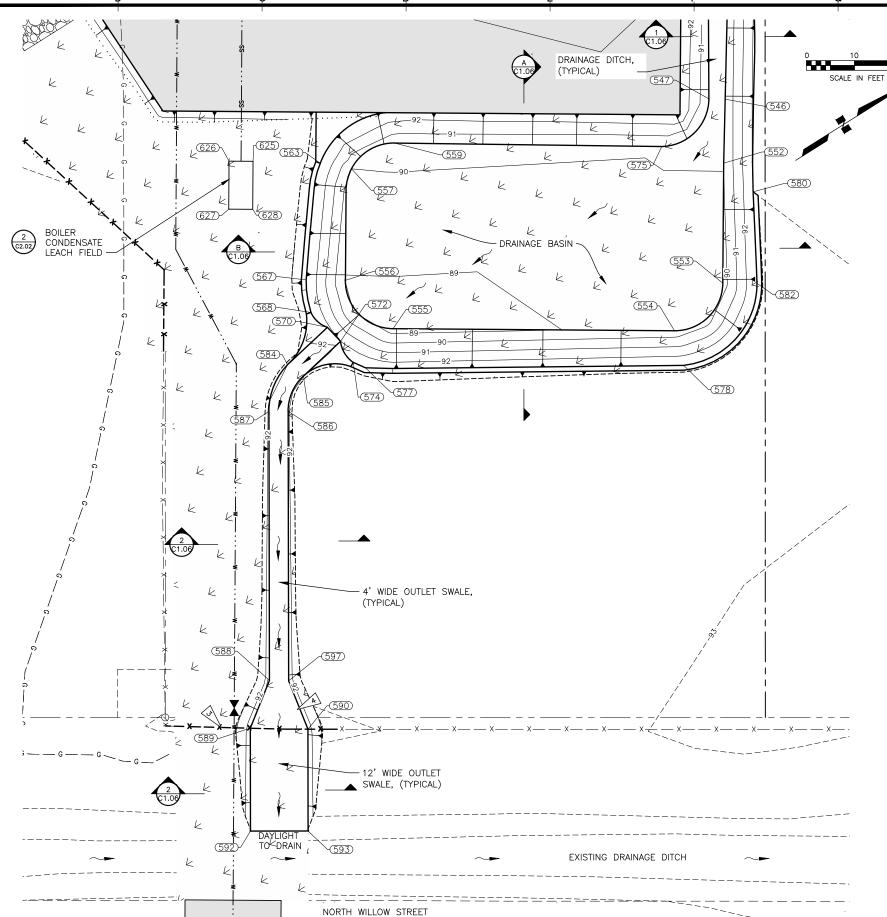
20-009-01







DITCH / DRAINAGE BASIN GRADING PLAN



NOTES:

- 1. SEE SHEETS G1.02 AND G1.03 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND. SEE SHEET G1.05 FOR SURVEY CONTROL INFORMATION.
- 2. EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATION AND AT STANDARD DEPTH. ACTUAL LOCATION AND DEPTH IS UNKNOWN. PROTECT IN PLACE AND WORK AROUND ALL EXISTING UTILITIES NOT SPECIFICALLY INDICATED TO BE RELOCATED.
- REMOVE AND REPLACE FENCING DURING INSTALLATION OF WATER SERVICE AND CONSTRUCTION OF DRAINAGE SWALE. CONTRACTOR SHALL MAINTAIN SECURITY AND PERIMETER CONTROL.
- TRANSITION OUTLET SWALE FROM 4-FEET WIDE TO 12-FEET WIDE TO ALLOW INSTALLATION OF FENCE ACROSS OUTLET WITH NO MORE THAN A 3" GAP BELOW FABRIC. MAKE MINOR ADJUSTMENTS TO OUTLET SWALE SIDE SLOPES TO MEET MINIMUM GROUND CLEARANCE REQUIREMENTS. MAINTAIN POSITIVE DRAINAGE AS NEEDED.
- 5. NEW GAS AND ELECTRICAL SERVICES NOT SHOWN FOR CLARITY. COORDINATE LOCATION AND INSTALLATION WITH ENSTAR AND HEA RESPECTIVELY.

Point # Northing		Easting Elevation		Description	
546	57331.1302	38091.4558	90.23	BOTTOM DRAINAGE DITCH	
547	57328.3012	38089.5846	90.23	BOTTOM DRAINAGE DITCH	
552	57323.7850	38102.5609	90.03	BOTTOM DRAINAGE BASIN	
553	57310.3292	38123.6309	89.53	BOTTOM DRAINAGE BASIN	
554	57296.5189	38126.6765	89.33	BOTTOM DRAINAGE BASIN	
555	57247.1172	38095.1301	88.50	BOTTOM DRAINAGE BASIN	
556	57244.0715	38081.3198	89.00	BOTTOM DRAINAGE BASIN	
557	57257.5037	38062.3269	90.00	BOTTOM DRAINAGE BASIN	
559	57267.9839	38062.5602	90.28	BOTTOM DRAINAGE BASIN	
563	57252.6105	38057.8854	93.00	TOP DRAINAGE BASIN	
567	57237.1968	38076.8826	93.00	TOP DRAINAGE BASIN	
568	57234.4340	38083.1650	93.00	TOP DRAINAGE BASIN	
570	57235.6821	38087.5988	92.00	OUTLET SWALE	
572	57236.4482	38091.5248	92.00	OUTLET SWALE	
574	57236.3427	38096.6473	93.00	TOP DRAINAGE BASIN	
575	57314.7198	38092.7784	90.10	BOTTOM DRAINAGE BASIN	
577	57237.9051	38098.9587	93.00	TOP DRAINAGE BASIN	
578	57294.3236	38133.8115	93.00	TOP DRAINAGE BASIN	
580	57325.7924	38110.8808	93.00	TOP DRAINAGE BASIN	
582	57316.3418	38127.4285	93.00	TOP DRAINAGE BASIN	
584	57224.4941	38089.8006	91.95	OUTLET SWALE	
585	57226.0188	38093.5599	91.95	OUTLET SWALE	
586	57219.4573	38098.0695	91.91	OUTLET SWALE	
587	57216.0666	38095.9473	91.91	OUTLET SWALE	
588	57186.3202	38143.4752	91.64	OUTLET SWALE	
589	57177.6679	38149.7600	91.57	OUTLET SWALE	
590	57187.7091	38156.3354	91.57	OUTLET SWALE	
592	57166.2881	38167.9423	91.46	OUTLET SWALE / ME OUTLET SWALE BOILER CONDENSATE LEACH FIEL	
593	57176.4601	38174.3087	91.47±		
597	57189.6660	38145.6691	91.64±		
625	57240.9665	38050.0869	93.84		
626	57236.7494	38047.4007	93.74		
627	57231.3707 38055.8310 93.84 BOILER CONDENSATE LEACH FI				
628	57235.5879	38058.5172	93.84	BOILER CONDENSATE LEACH FIELD	

REVISIONS

WARK DATE DESCRIPTION

2

4

4

5



thricial - surveying - environmental - material testing
MAT-SU
20
907.746.5230
3oulevard, Surite 100 Anchorage, AK 99503
www.HDLalaska.com

ORAGE BUILDING
MUNICIPAL AIRPORT

KENAI MUN

SHEET TITLE

DITCH — DRAINAGE
BASIN GRADING
PLAN

C1.04

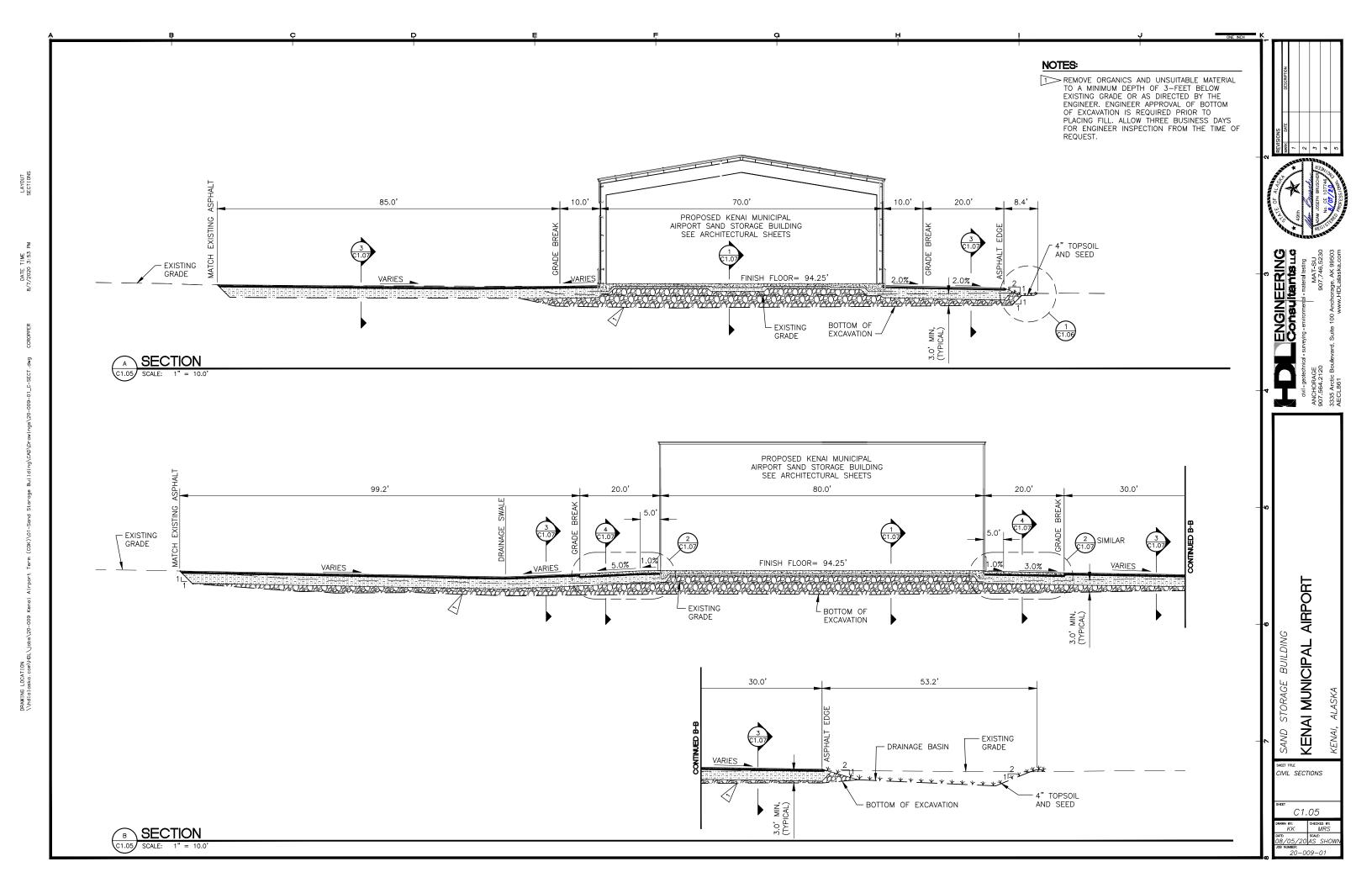
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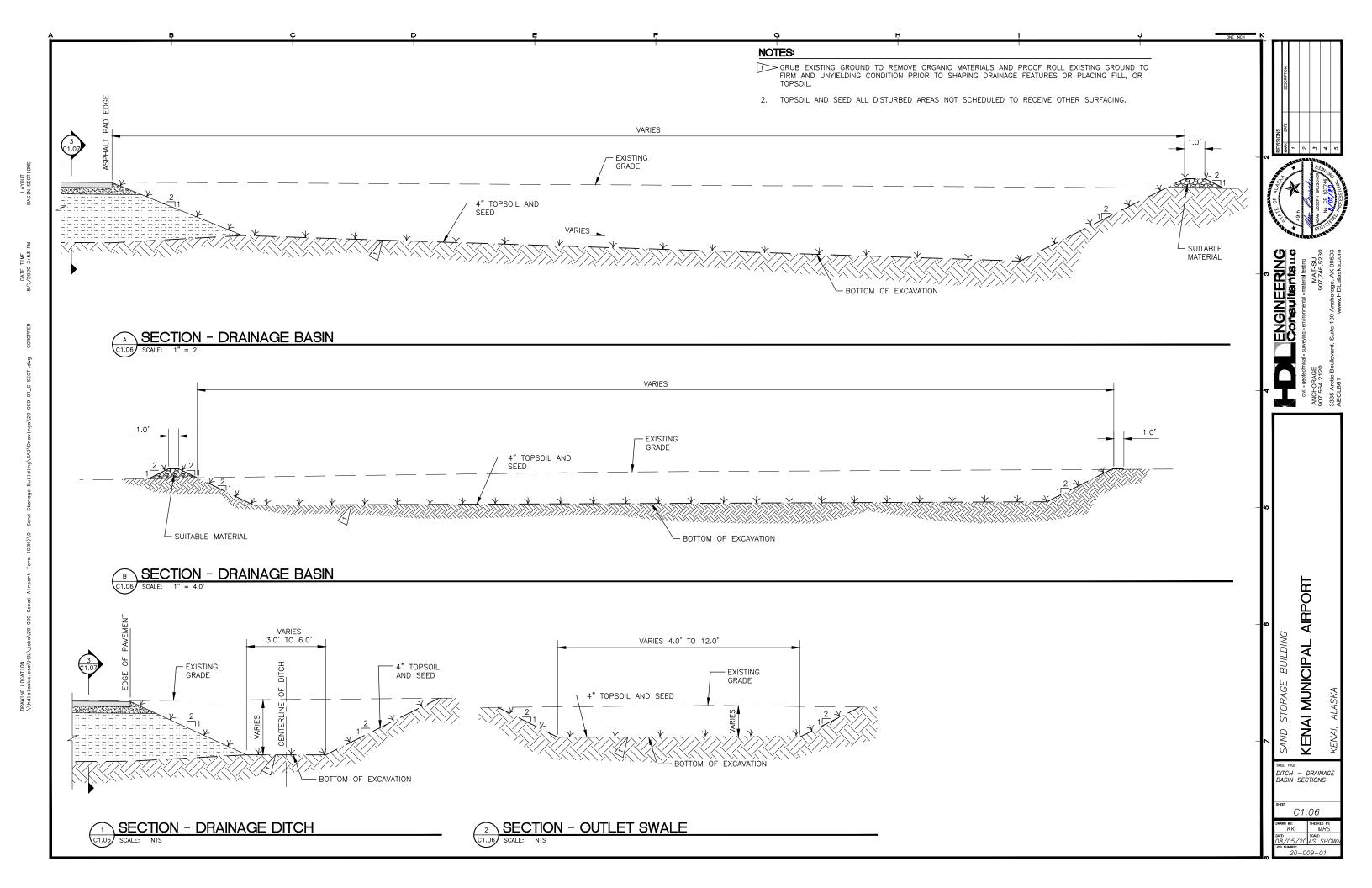
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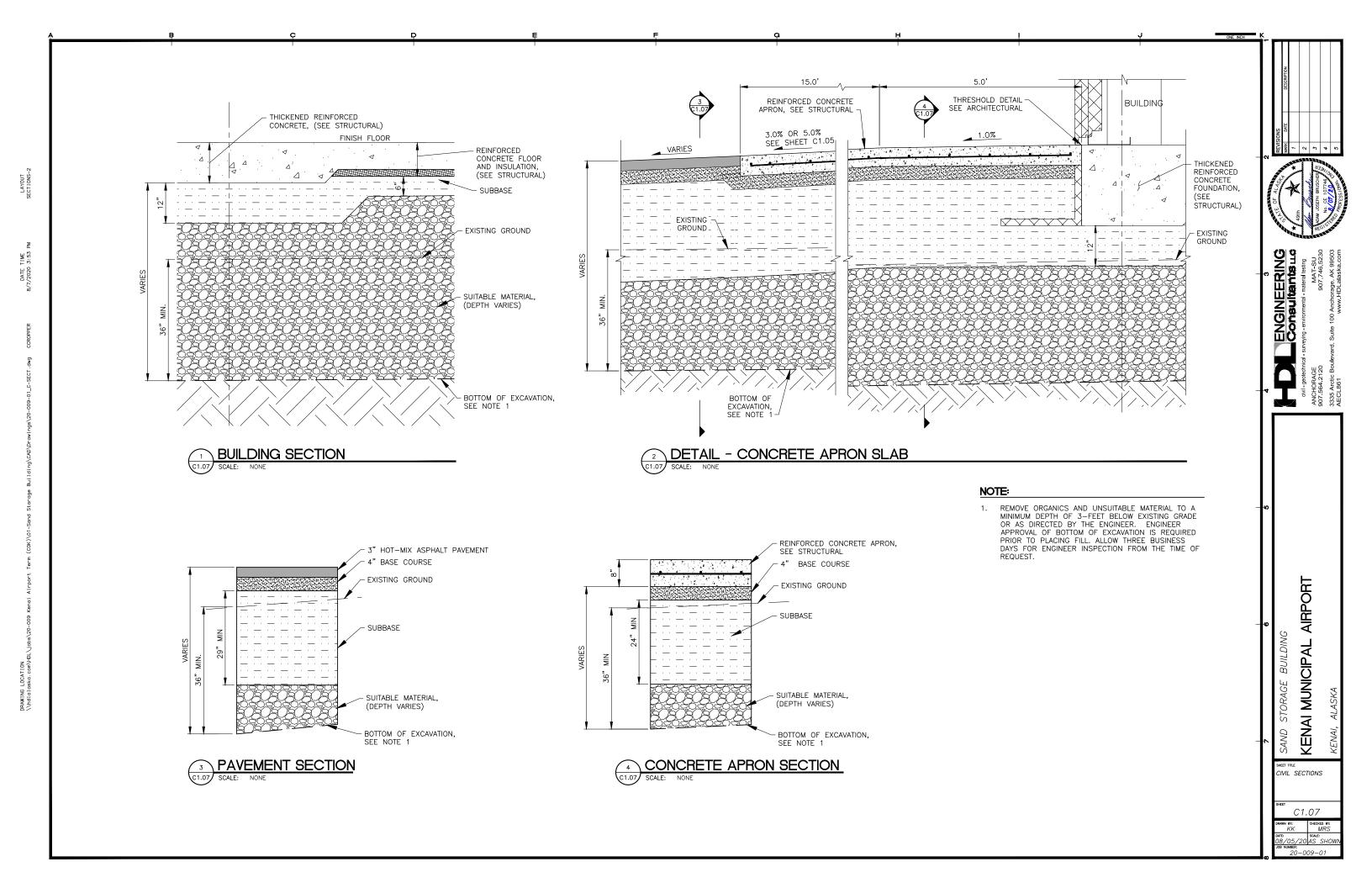
08/05/20 AS SHOWN

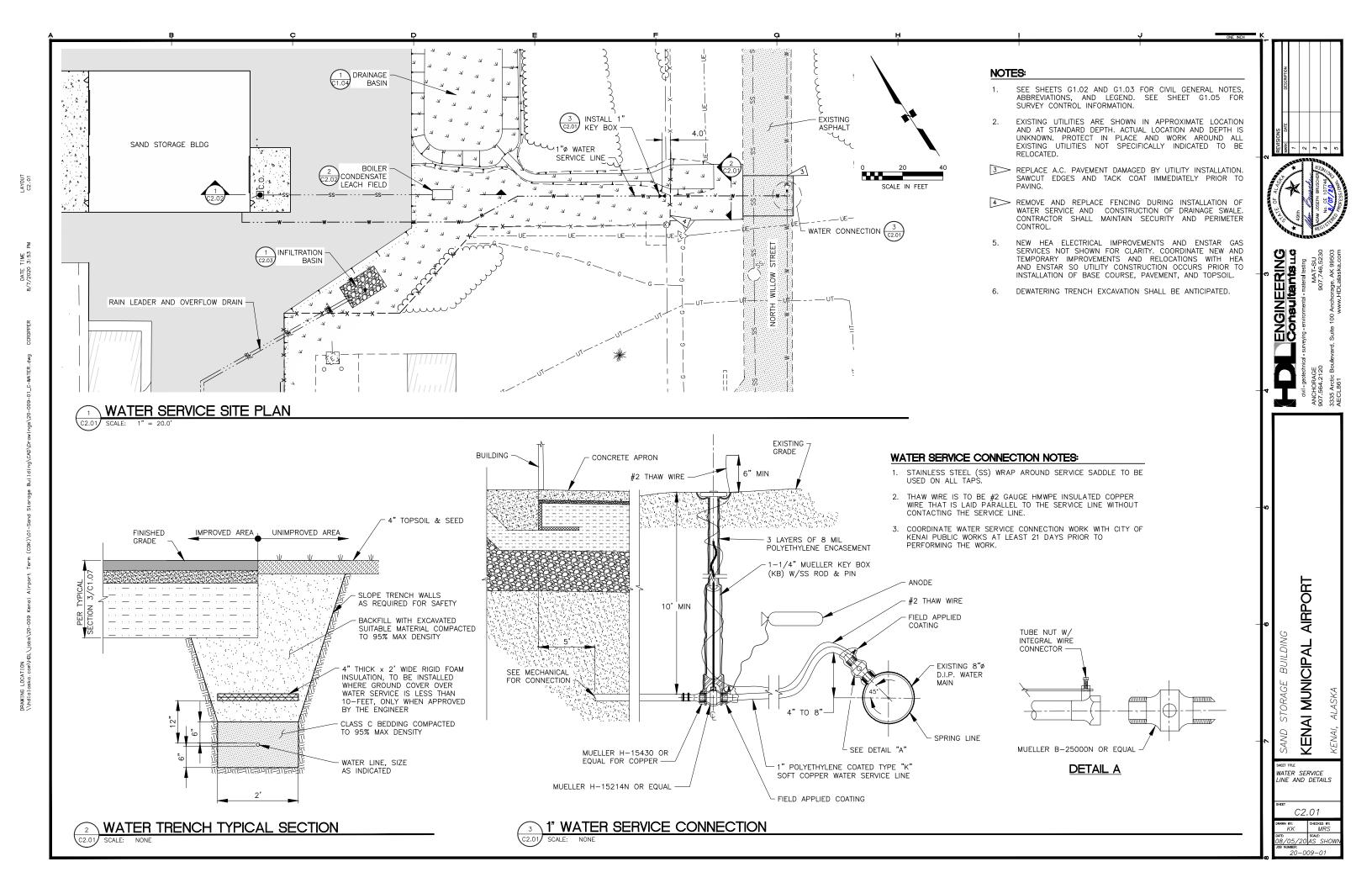
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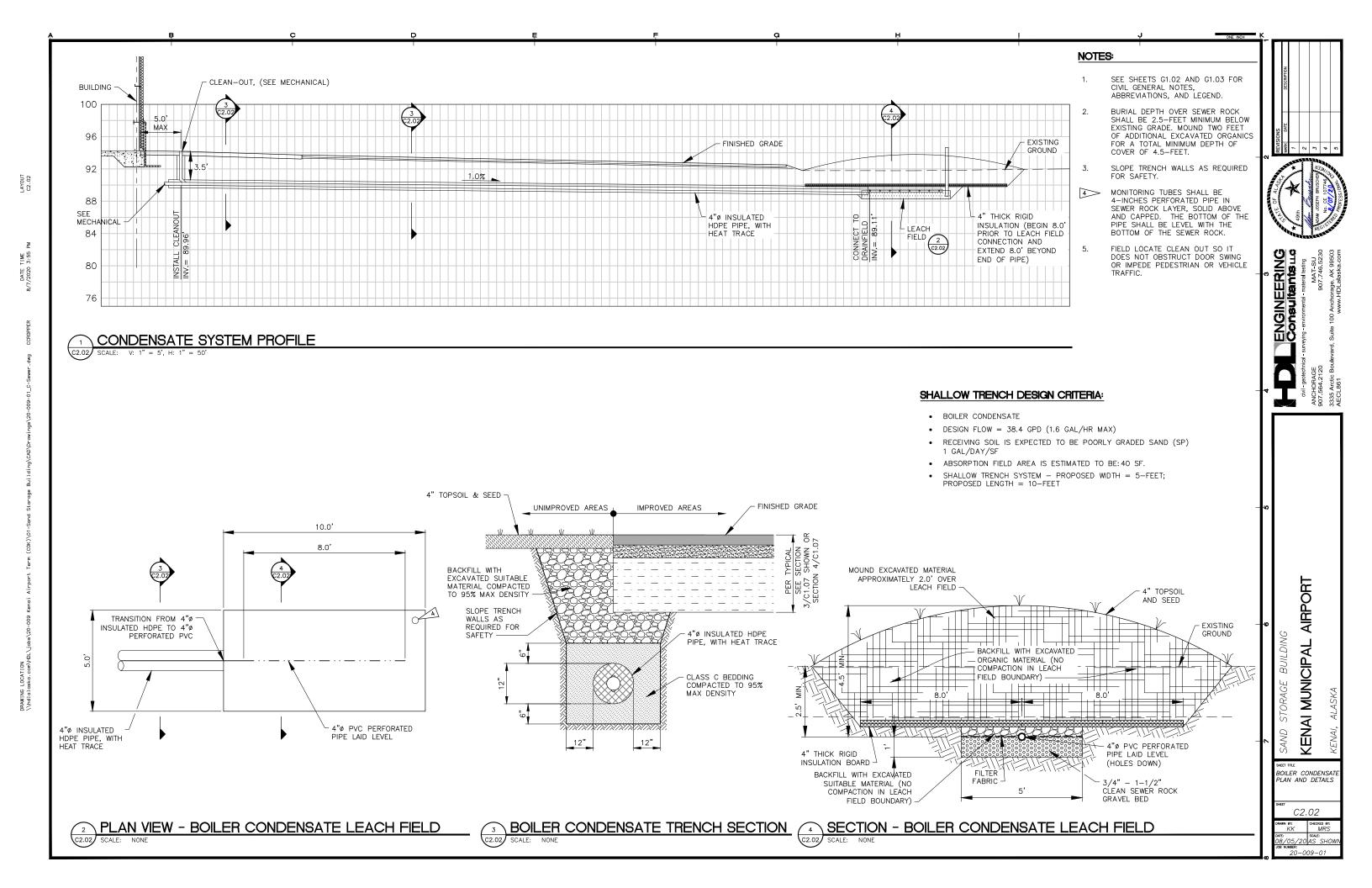
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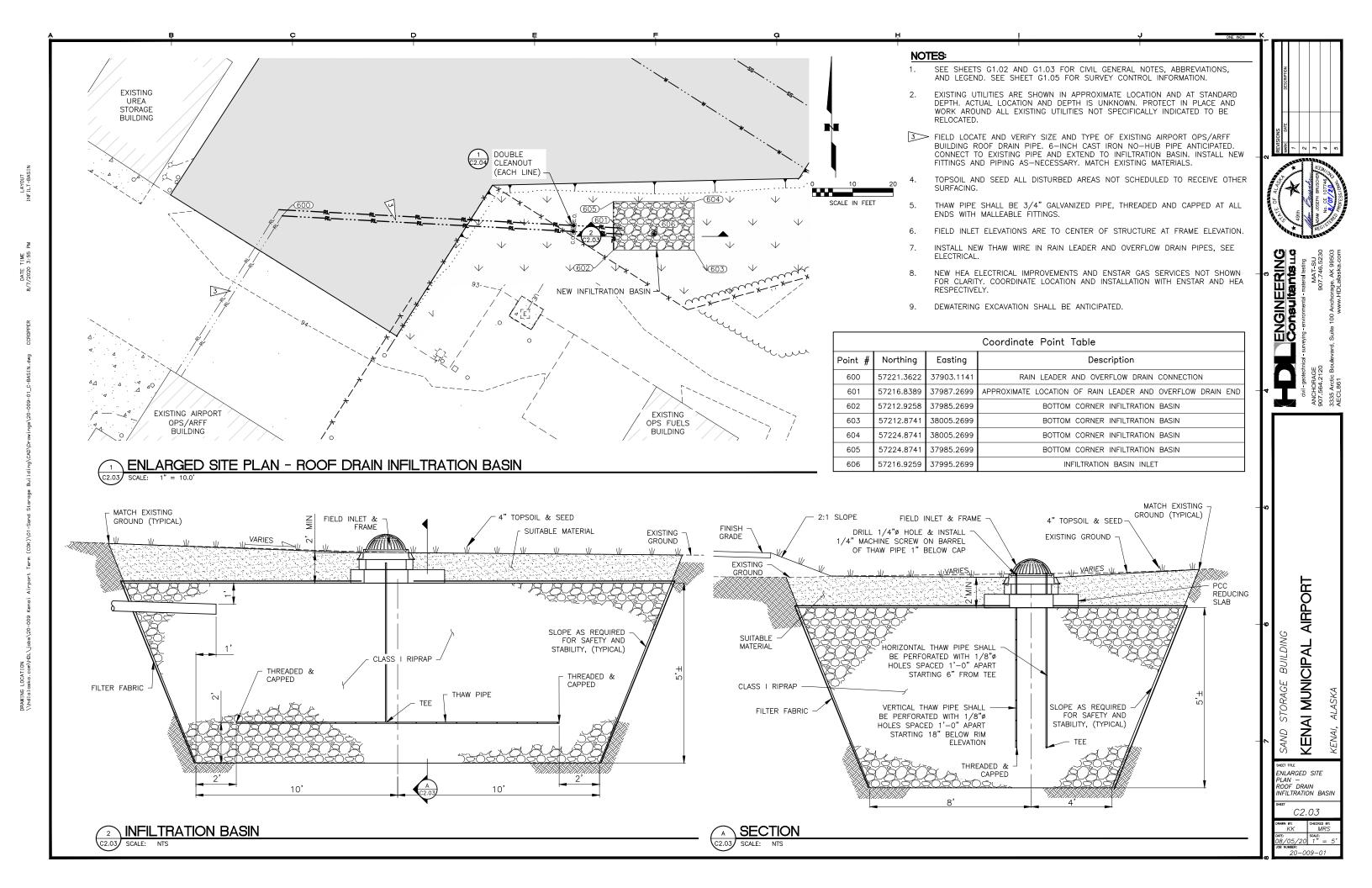


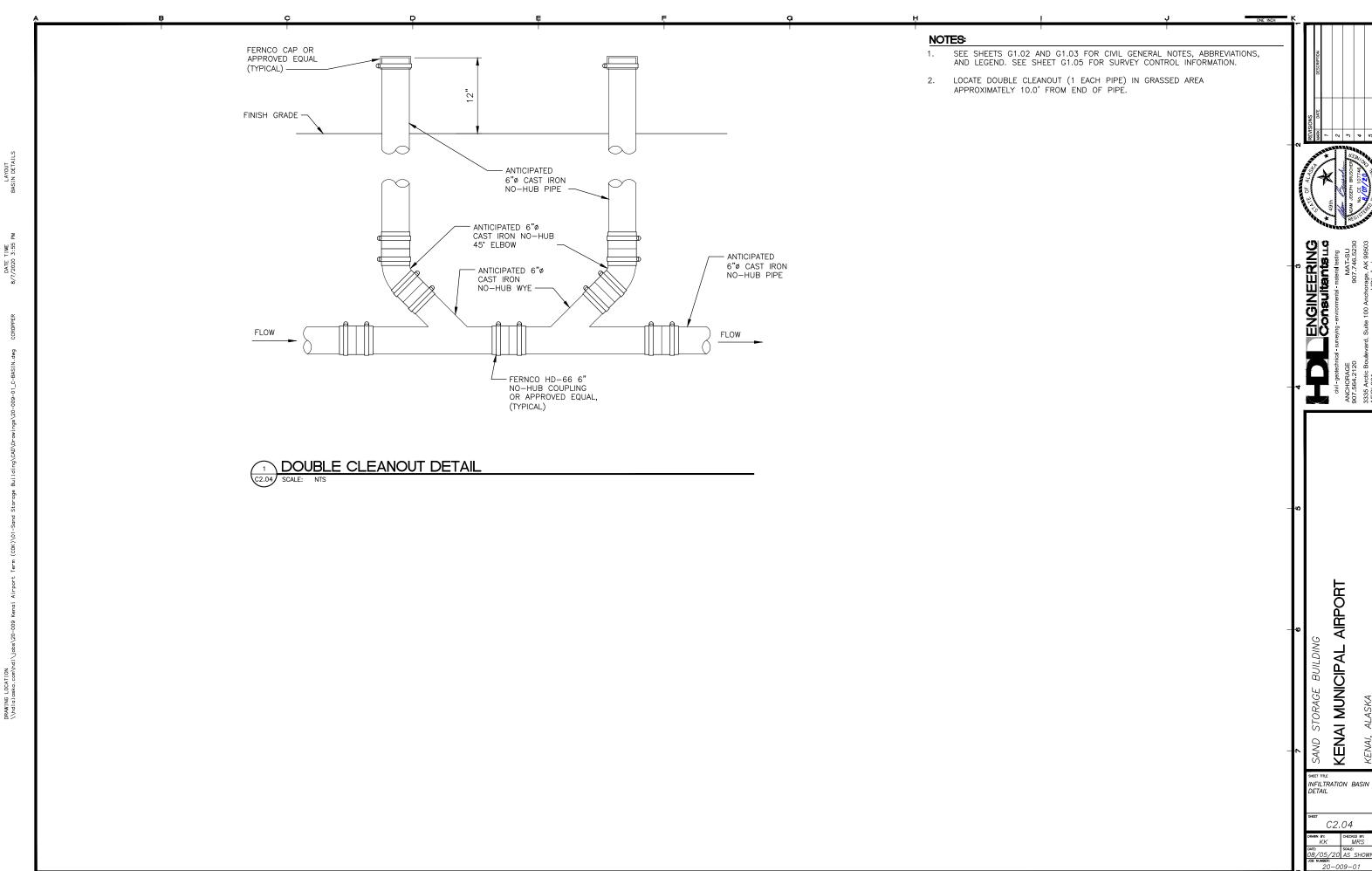












NOTES: 1. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 10 FEET UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 2. POST TOPS SHALL BE SECURELY FASTENED TO POST.

BARB WIRE

CONNECTION DETAIL STRETCHER BAR 1/4"x3/4" FLAT BAR STRETCHER BAR BANDS TRUSS ROD TIGHTENER SPACED AT 4" MAX. T BRACE POSTS 10.0' 10.0' MAX 10.0' 7 GA. TENSION WIRE BARB ARM EXTENSION, TRUSS ROD

TIGHTENER

(3.01) (TYPICAL) KNUCKI F BRACE SELVAGE 1-5/8" BRACE FABRIC TIES RAIL, (TYPICAL) LINE POST SPACED AT 12" FENCE FABRIC GAUGE 2" MESH 7 GAUGE TENSION WIRE GROUND WIRE - KNUCKLE SELVAGE 3/8"ø TRUSS ROD -2" CLEARANCE TRUSS ROD -/8"øx8' COPPER SEE LINE POST 2 DETAIL, TYPICAL C3.01 SEE BRACE POST CLAD GROUND ROD OR CORNER POST DETAIL, TYPICAL

TYPICAL CORNER OR TERMINAL POST

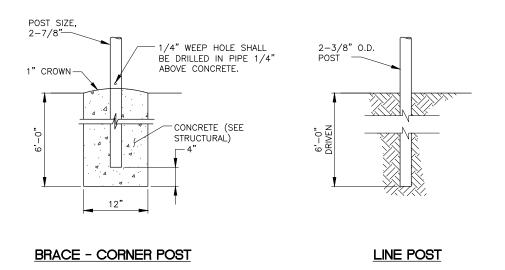
TRUSS ROD

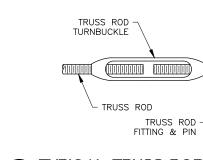
BRACKET

CHAINLINK FENCE DETAILS

TYPICAL FENCE SECTION

POST DETAIL





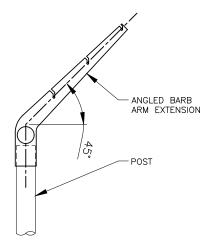


TRUSS ROD



TYPE II BARB ARM EXTENSION

- 3. BRACE RAILS AND TRUSS RODS SHALL BE SECURELY FASTENED TO POST WITH BRACE BANDS WITH THREADED TAKE-UP ADAPTOR FOR TRUSS RODS.
- 4. GROUND WIRE SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF A
- 5. FENCE FABRIC SHALL BE STRETCHED TO A SMOOTH UNIFORM APPEARANCE.
- 6. FENCE FABRIC SHALL BE FURNISHED WITH KNUCKLE SELVAGE TOP AND
- 7. DETAILS SHOWN INDICATE GENERAL DESIGN AND DIMENSIONS MAY VARY AMONG MANUFACTURERS. MATCH EXISTING FENCING SCHEDULED TO REMAIN.
- 8. FOR FENCE GATE DETAILS SEE DRAWING C3.02.
- 9. LINE POSTS SHALL BE DRIVEN TO A DEPTH OF 6.0' BELOW FINISHED GRADE. CORNER AND BRACE GATE POSTS SHALL BE SET IN CONCRETE, WITH A MINIMUM 6-FOOT EMBEDMENT.
- 10. FABRIC SHALL BE PLACED ON OUTER PERIMETER SIDE OF POST.
- 11. WIRE MESH FASTENED TO TENSION WIRE WITH 12 GAUGE HOG RING FASTENER MAX. SPACING 24" TOP AND BOTTOM.





AIRPORT BUILD

MUNICIPAL KENAI

FENCE DETAILS

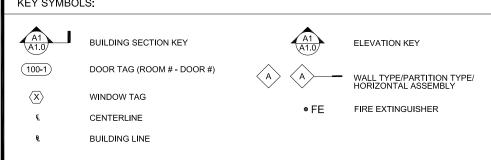
C3.01

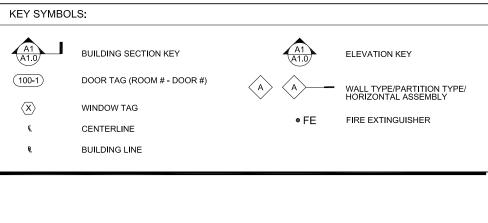
GENERAL NOTES

- THESE DRAWINGS ARE "NOT FOR CONSTRUCTION" DOCUMENTS UNLESS THEY ARE CLEARLY MARKED "FOR CONSTRUCTION." DO NOT SCALE THE DRAWINGS.
- ALL WORK SHALL COMPLY WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, THE 2018 INTERNATIONAL FIRE CODE, OR THE MOST CURRENT EDITION OF ALL RELEVANT CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION IN THE PROJECT AREA.
- 3. AS A SIMPLE REFERENCE ELEVATION ON THE ARCHITECTURAL DRAWINGS THE FINISH FLOOR TOP OF SLAB IS CALLED OUT AT 0°-0°. FOR THE ACTUAL SITE AND BUILDING ELEVATIONS SEE CIVIL.

CODE DATA		
OCCUPANCY GROUP	GROUP S-1; STORAGE	
AUTOMATIC SPRINKLER SYSTEM	NOT REQUIRED	
CONSTRUCTION TYPE	V-B	
ALLOWABLE AREA	1 STORY, 9,000 S.F.	
ALLOWABLE AREA INCREASES	WITH FRONTAGE: 15,750 S.F. SPRINKLER: NOT REQUIRED	
ACTUAL AREAS BUILDING OVERALL	5,600 S.F.	
EXITING EQUIPMENT AND SAND STORAGE 19 OCCUPANTS EXITS REQUIRED	5,600 s.F. (3) EXITS REQUIRED; (3) EXITS PROVIDED	

ABBREVIATIONS:				
A.G.P.T. A.F.F. CONC ELECT EQ F.F. GA HR I.D. MBS MECH MFR NIC OH P.T. SIM	ABOVE GROUND PRESSURE TREATED ABOVE FINISH FLOOR CONCRETE ELECTRICAL EQUAL FINISH FLOOR GAUGE HOUR INTERIOR DIMENSION METAL BUILDING SUPPLIER MECHANICAL MANUFACTURER NOT IN CONTRACT OVERHEAD PRESSURE TREATED SIMILAR	STRUCT TYP	STRUCTURAL TYPICAL	





KLAUDER & COMPANY ARCHITECTS, INC. AECC 857 606 Petersen Way, Kenai, AK 99611 T: (907) 283-1919 | F: (907) 283-02450 klauder@alaska.net ENGINEERING
Consultants L.C.

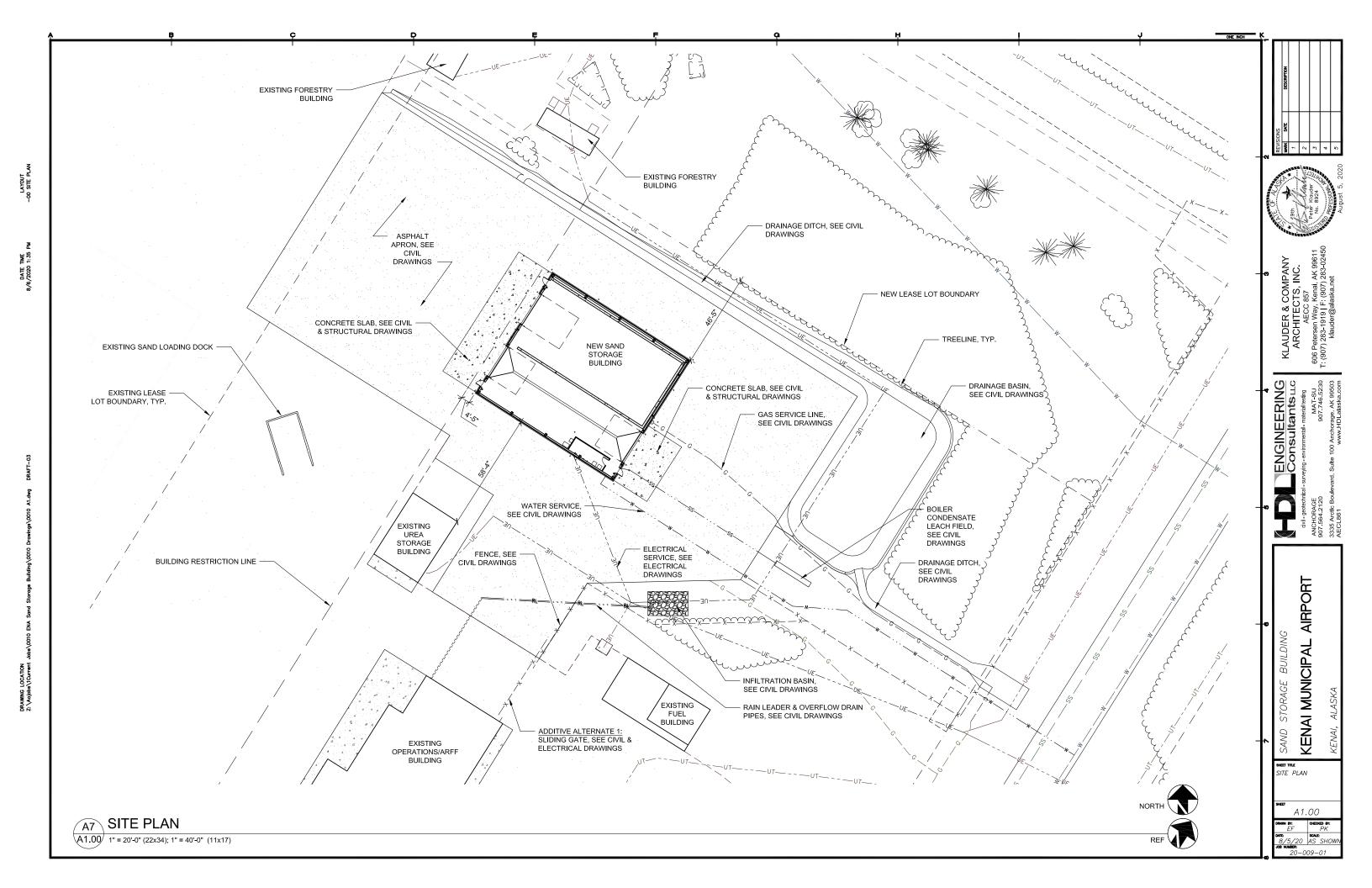
RAT-SU
907.746.5230
evard, Sulte 100 Anchorage, AK 99503
www.HDLalaska.com

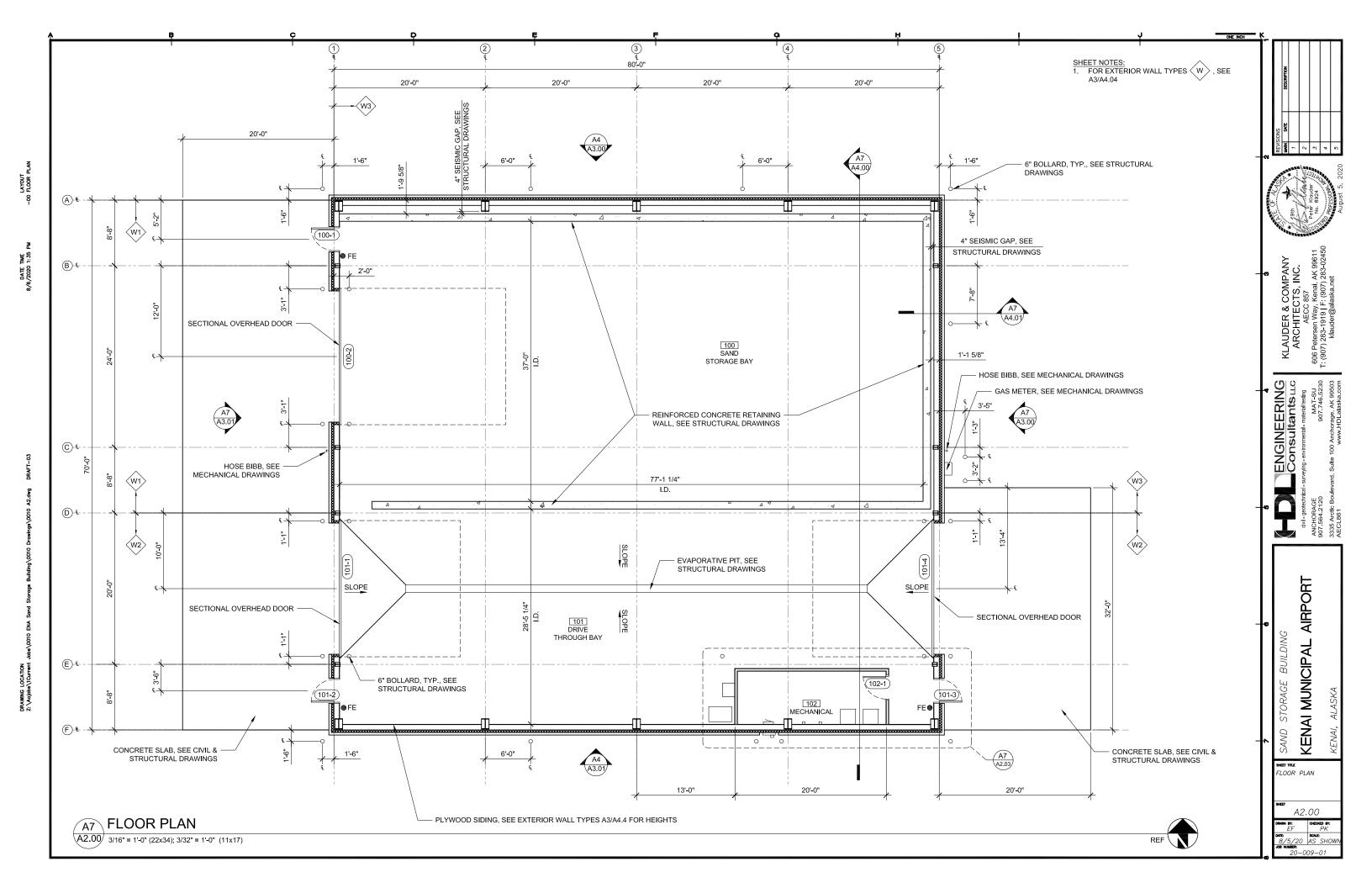
AIRPORT

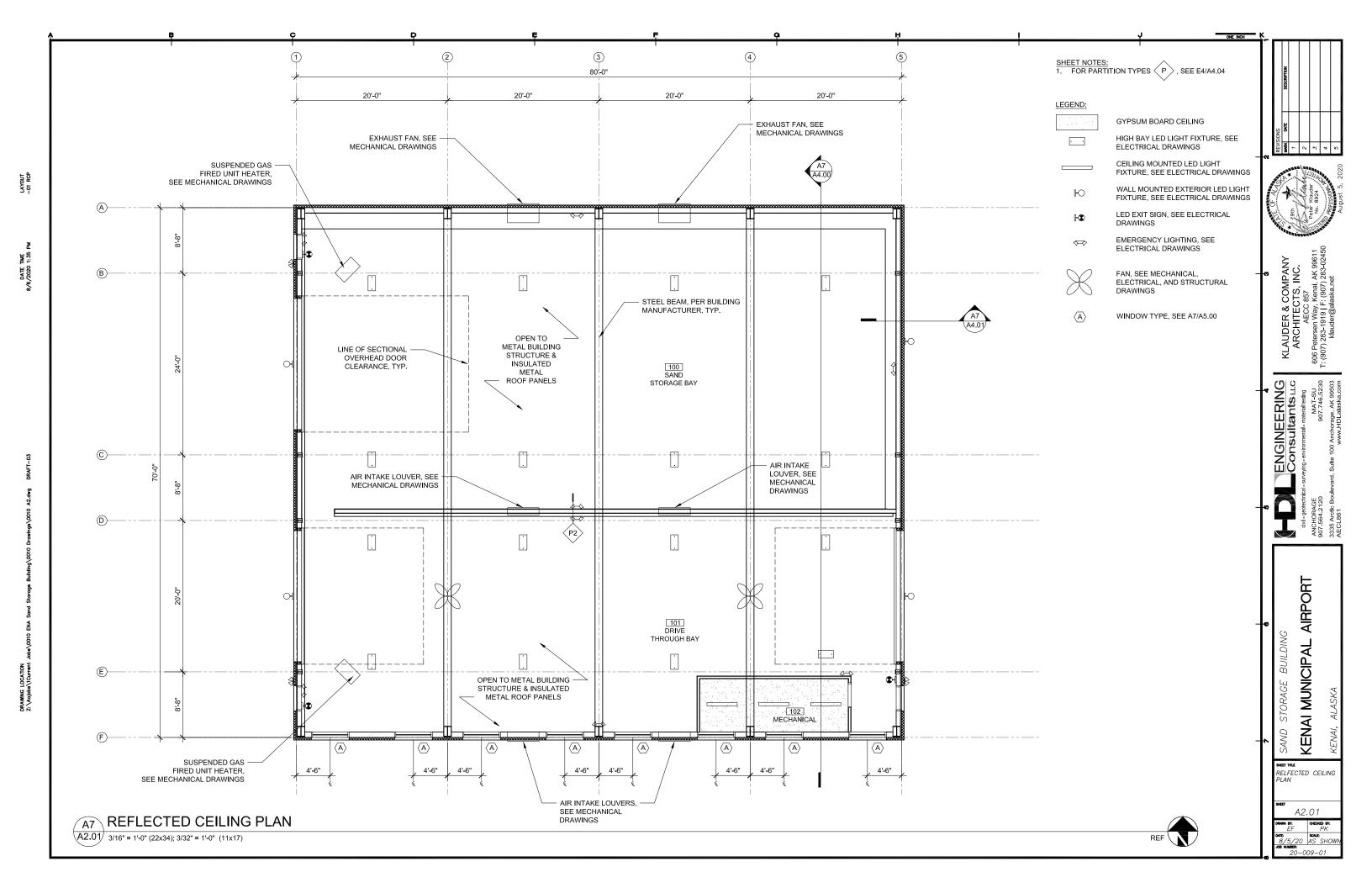
BUILDING KENAI MUNICIPAL

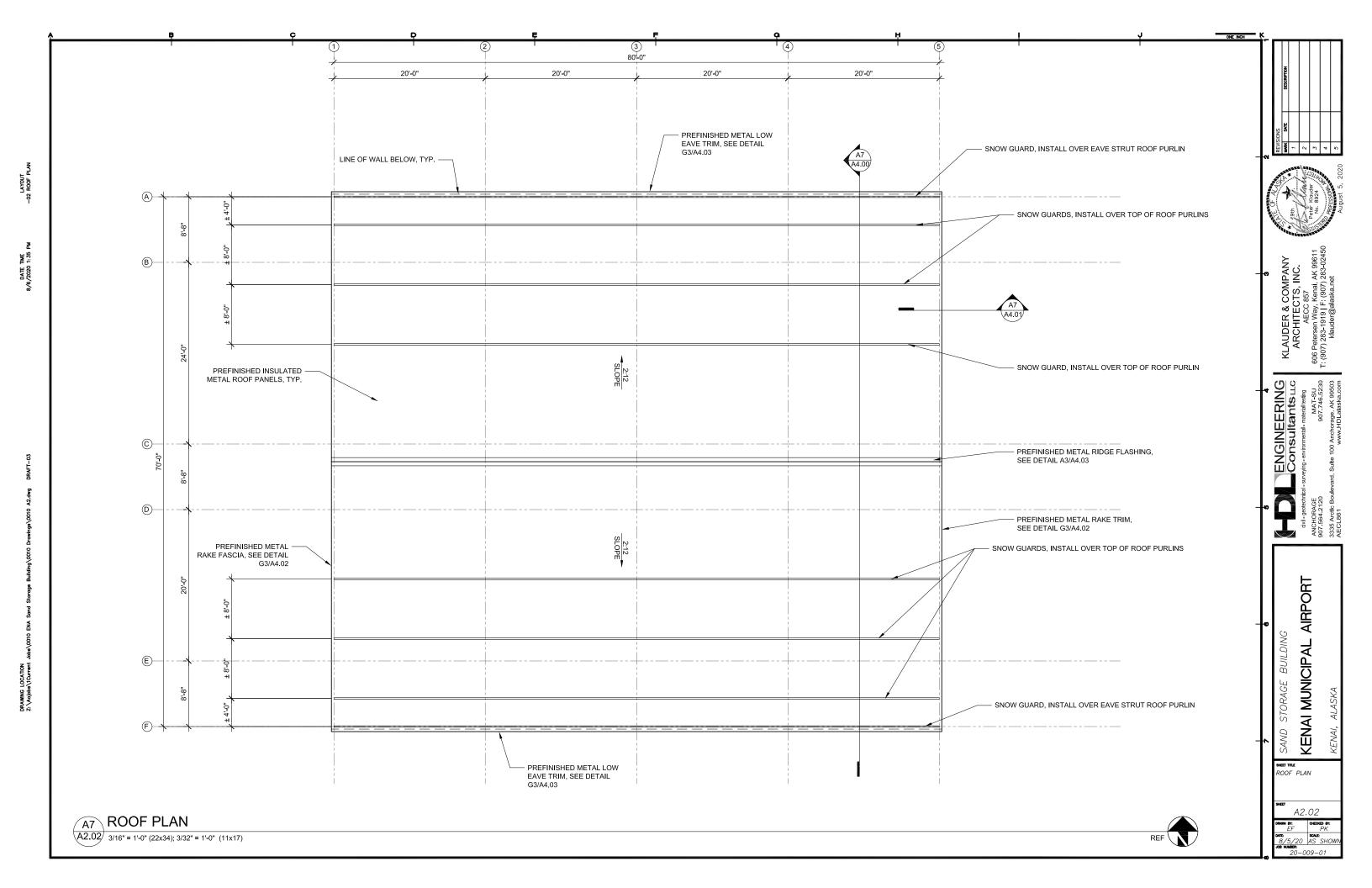
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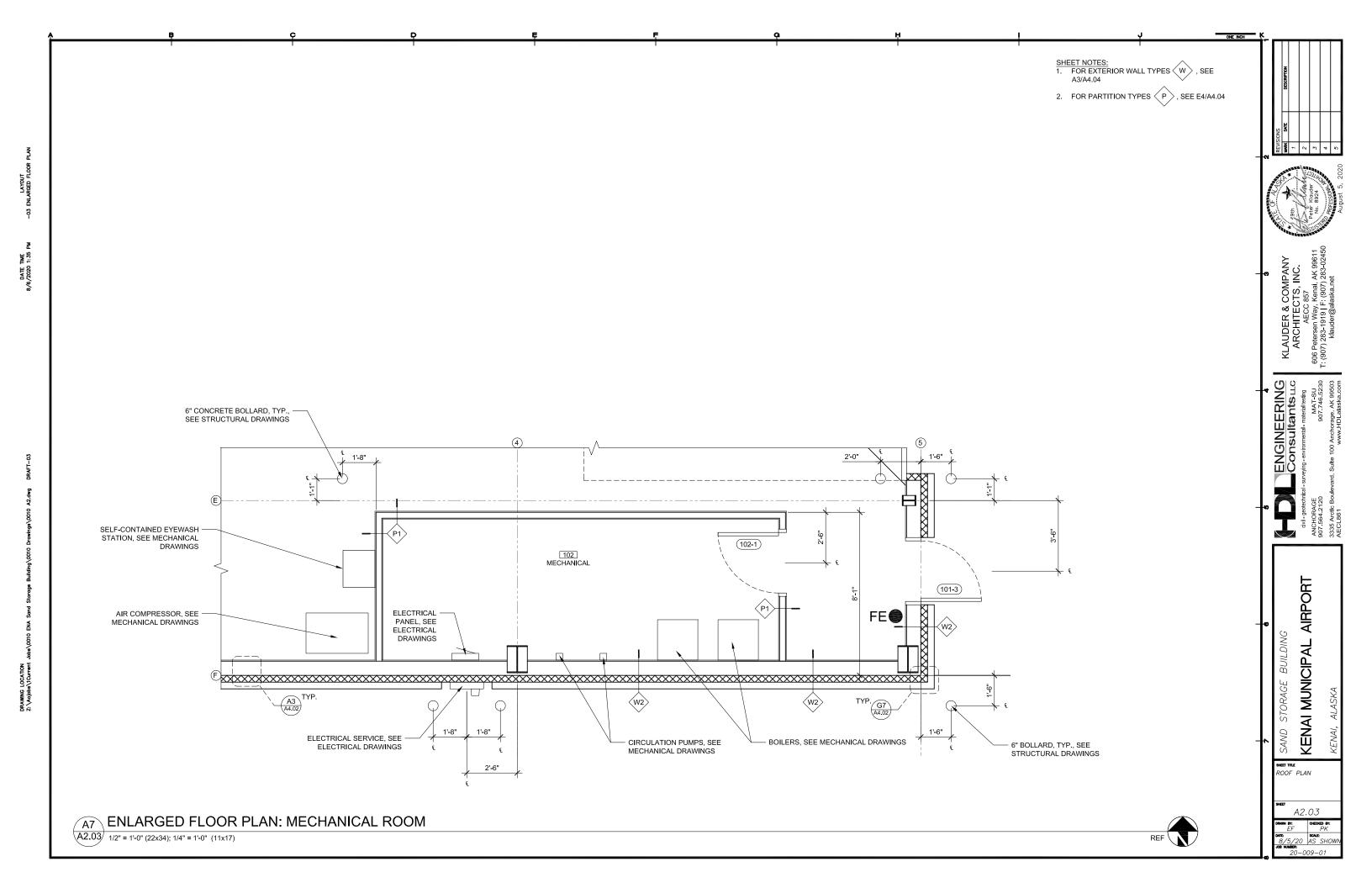
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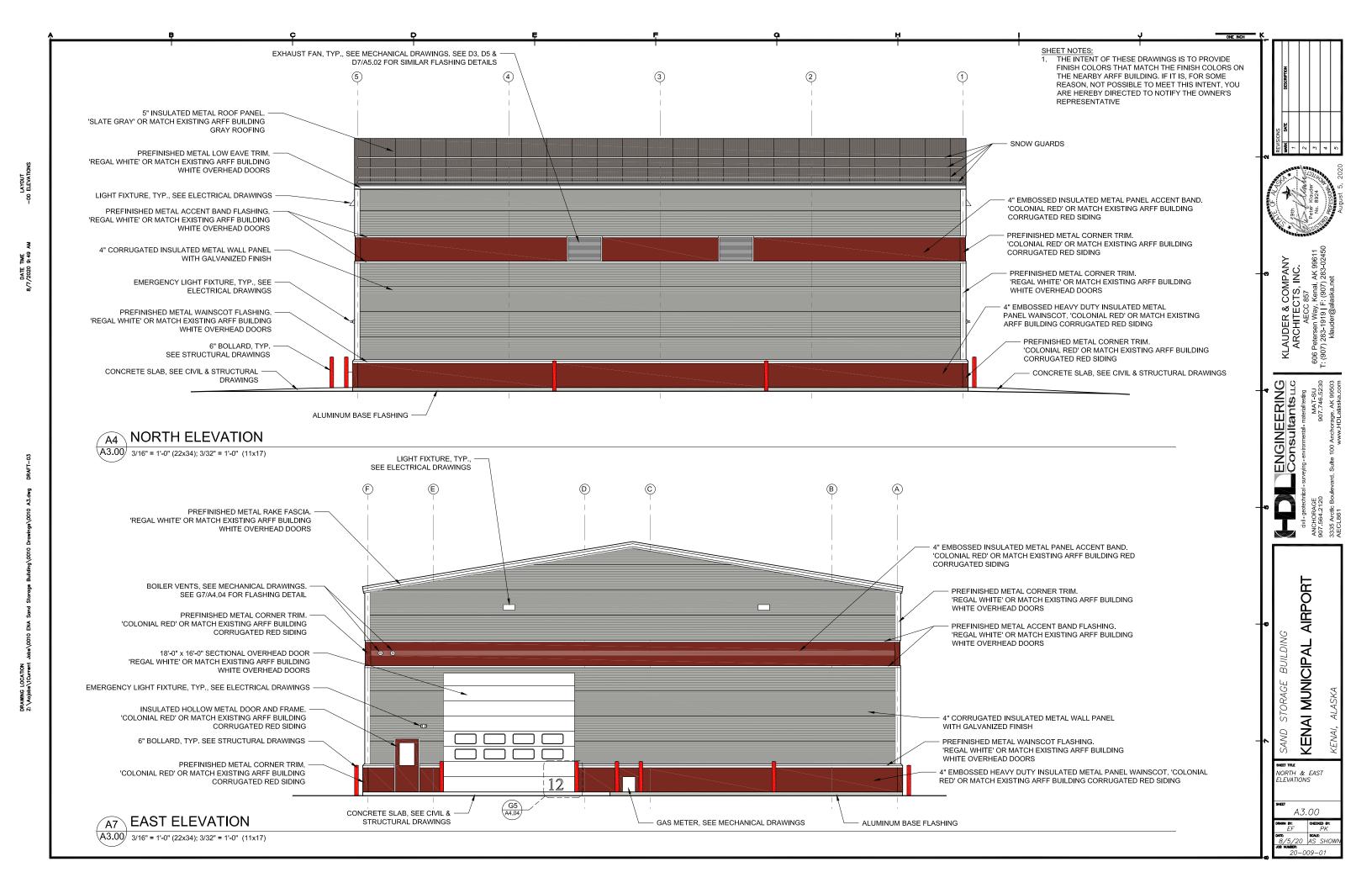


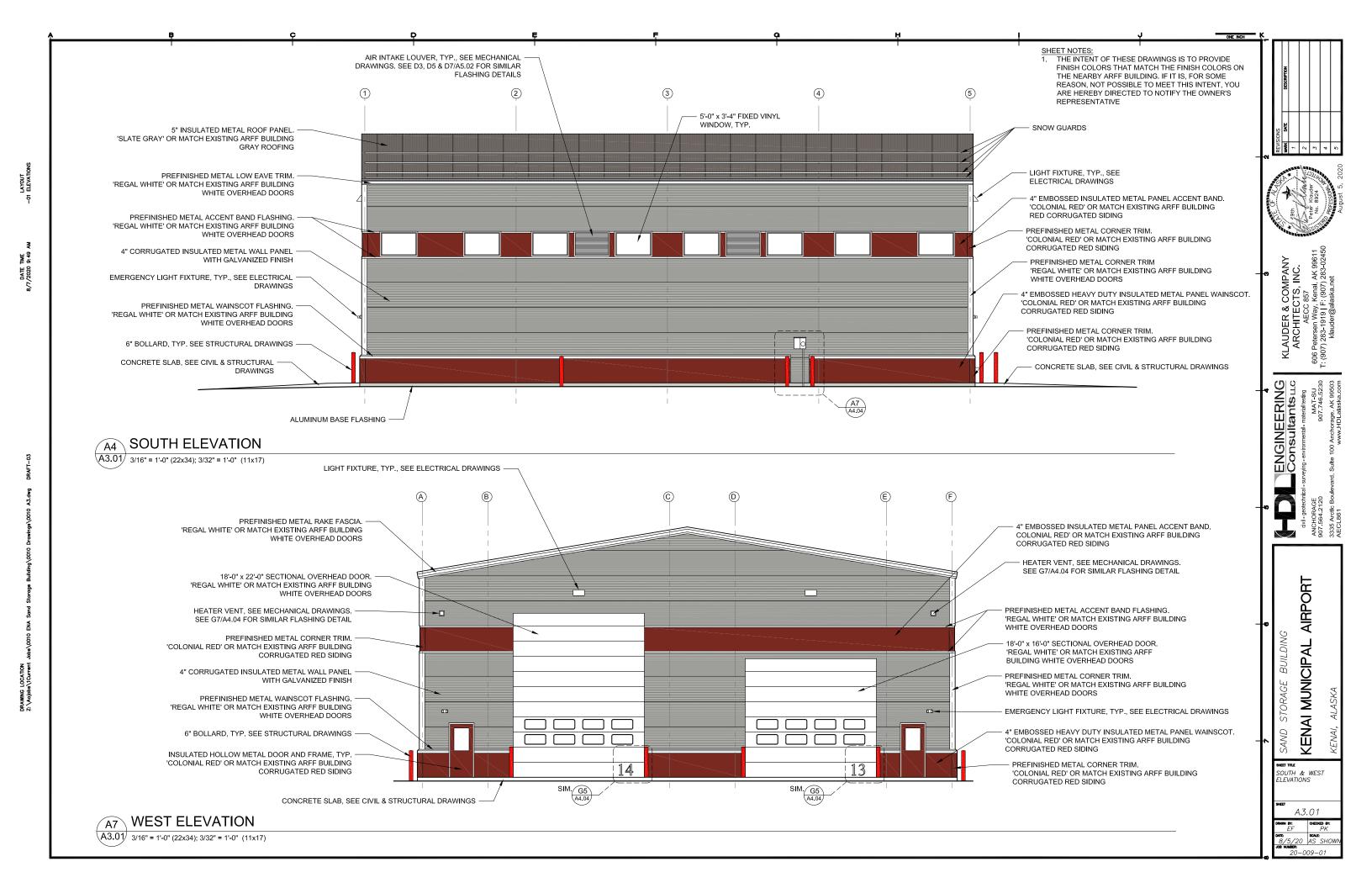


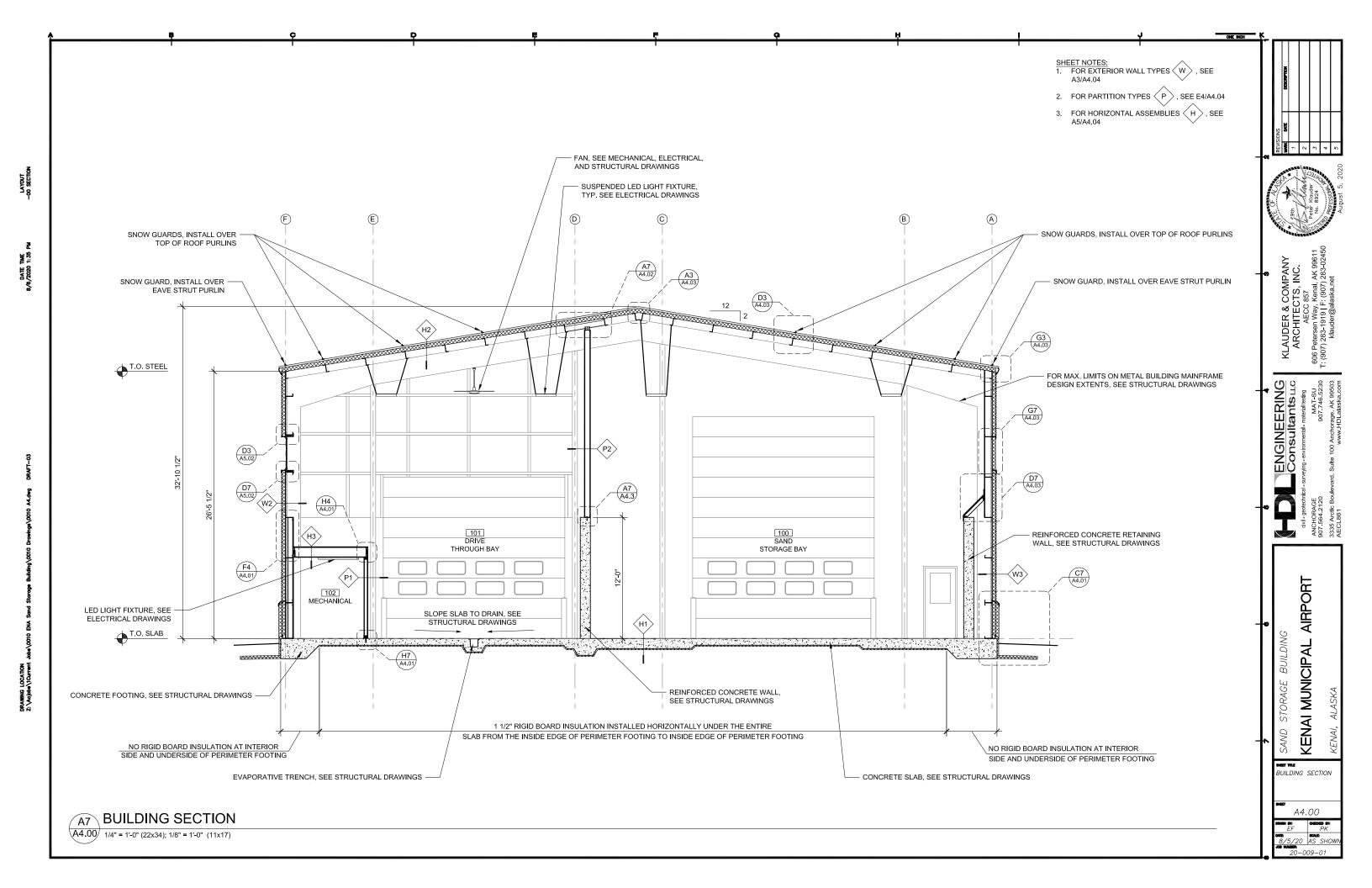


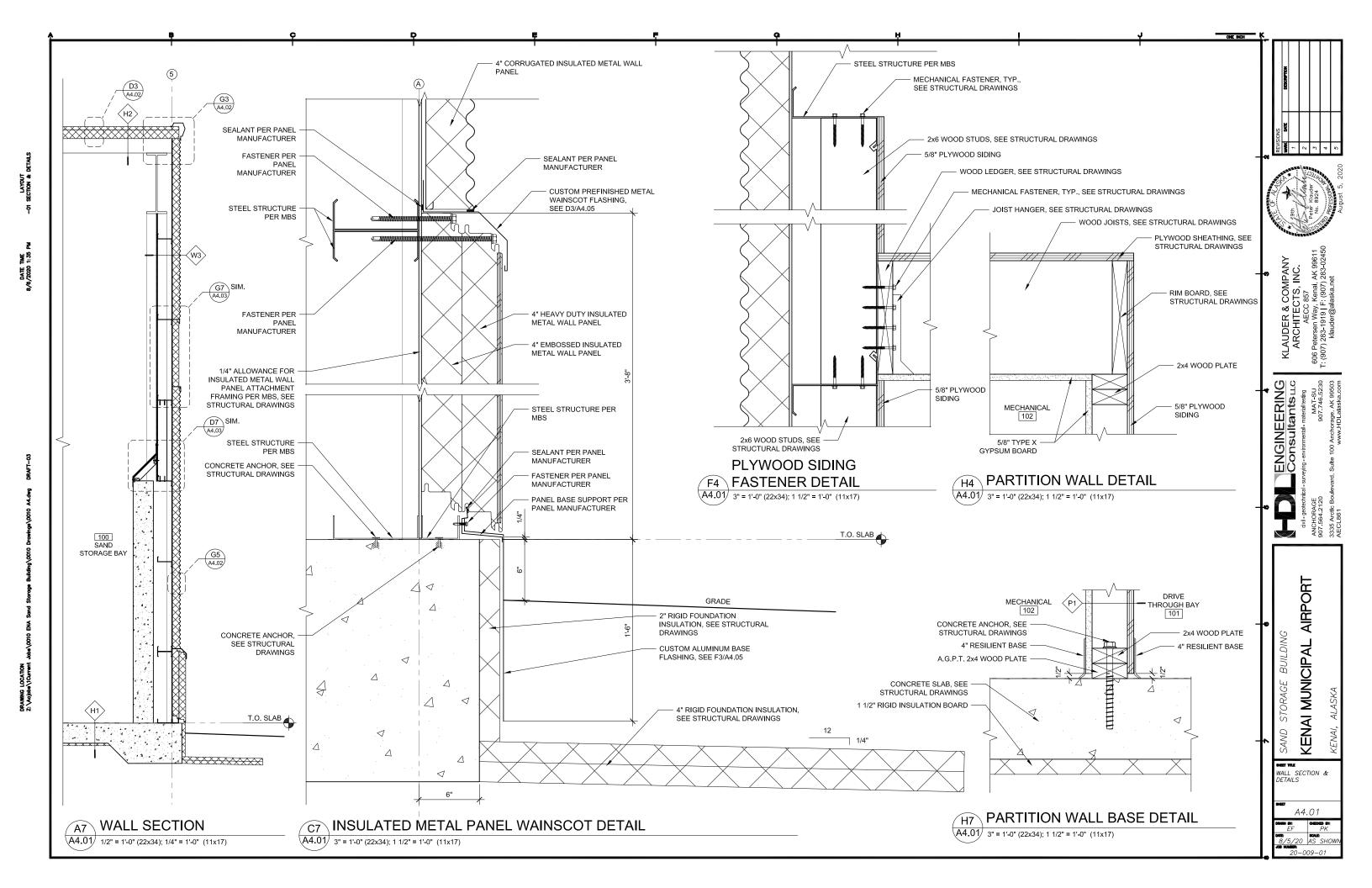


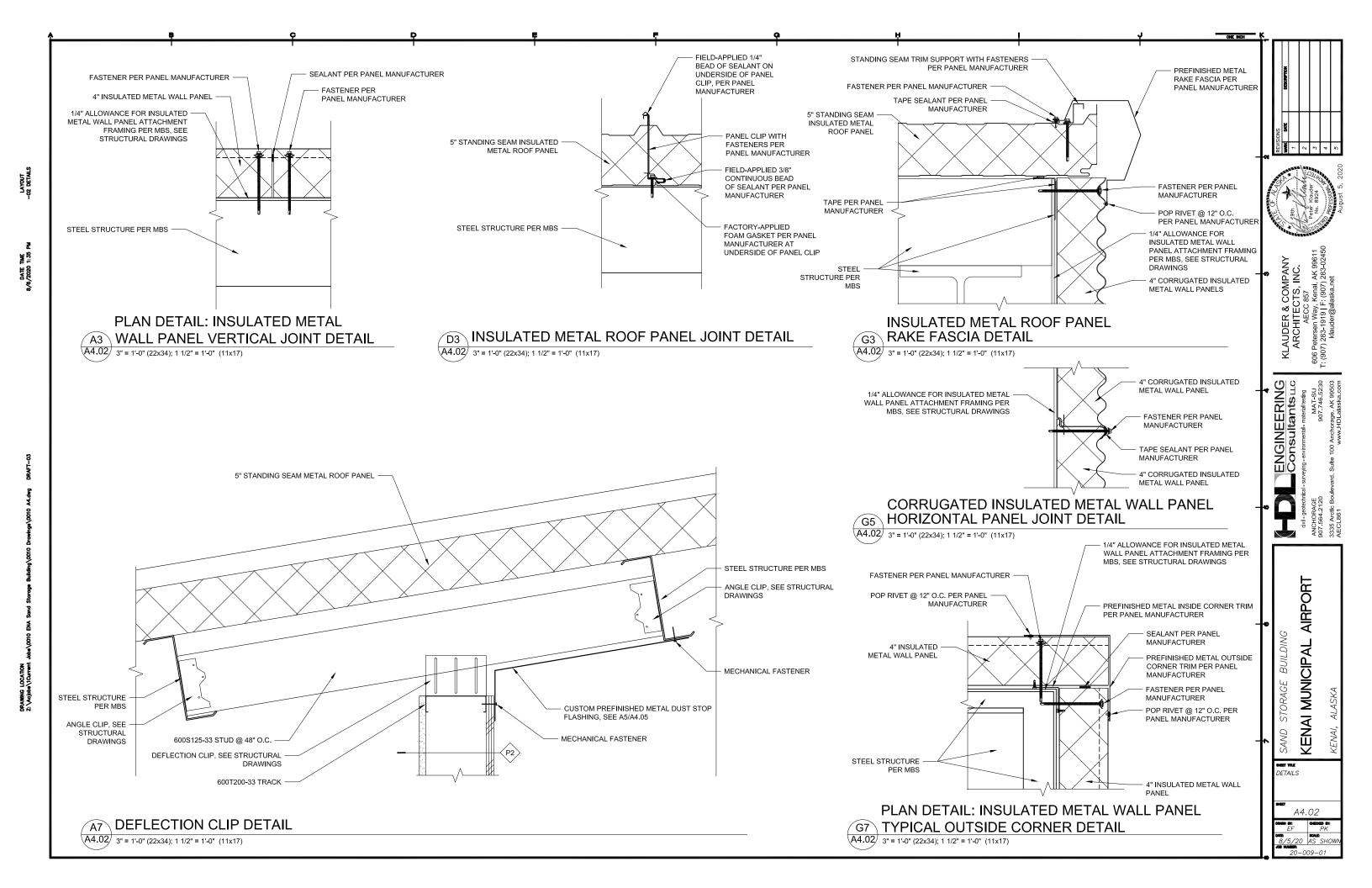


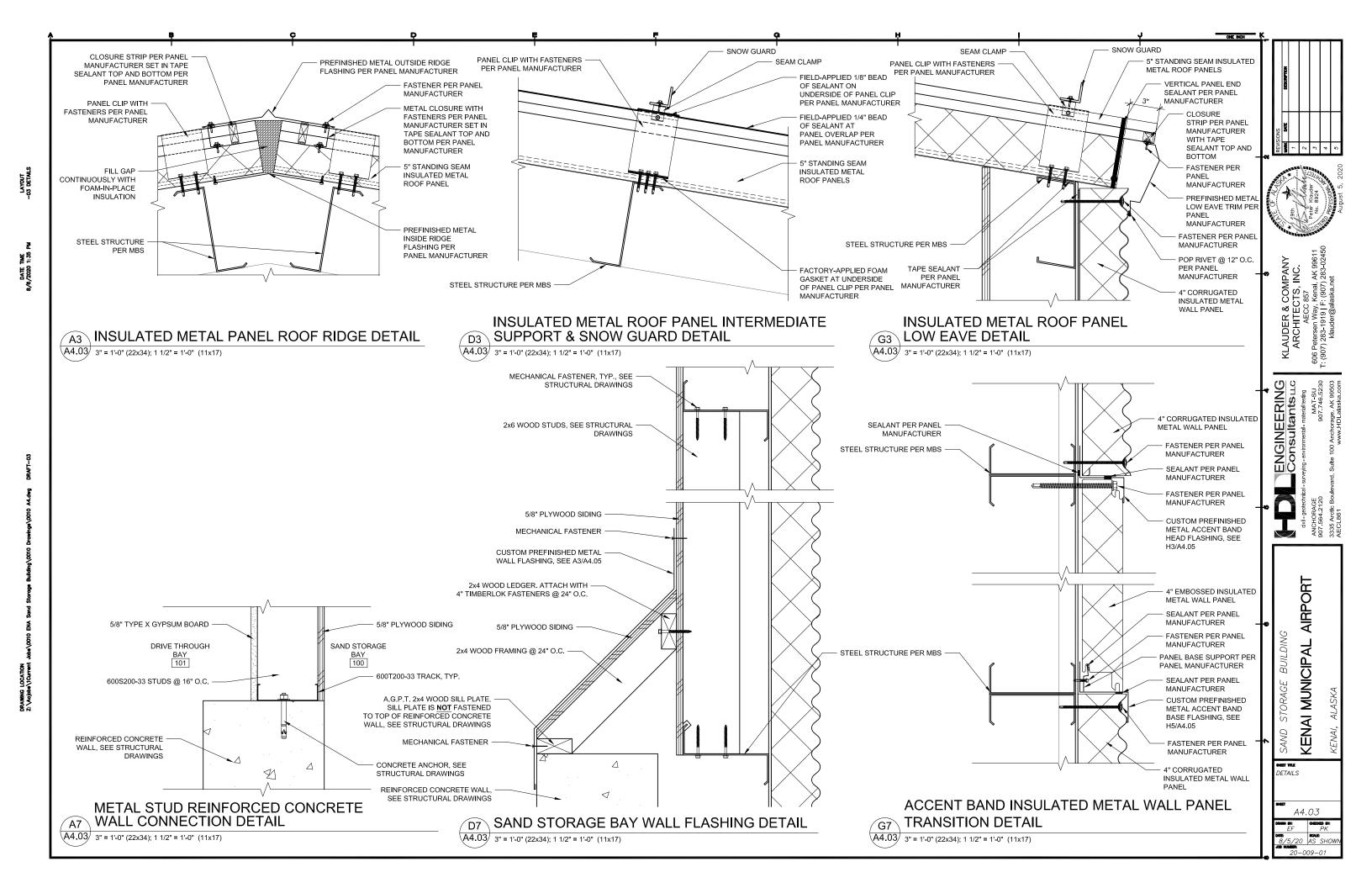


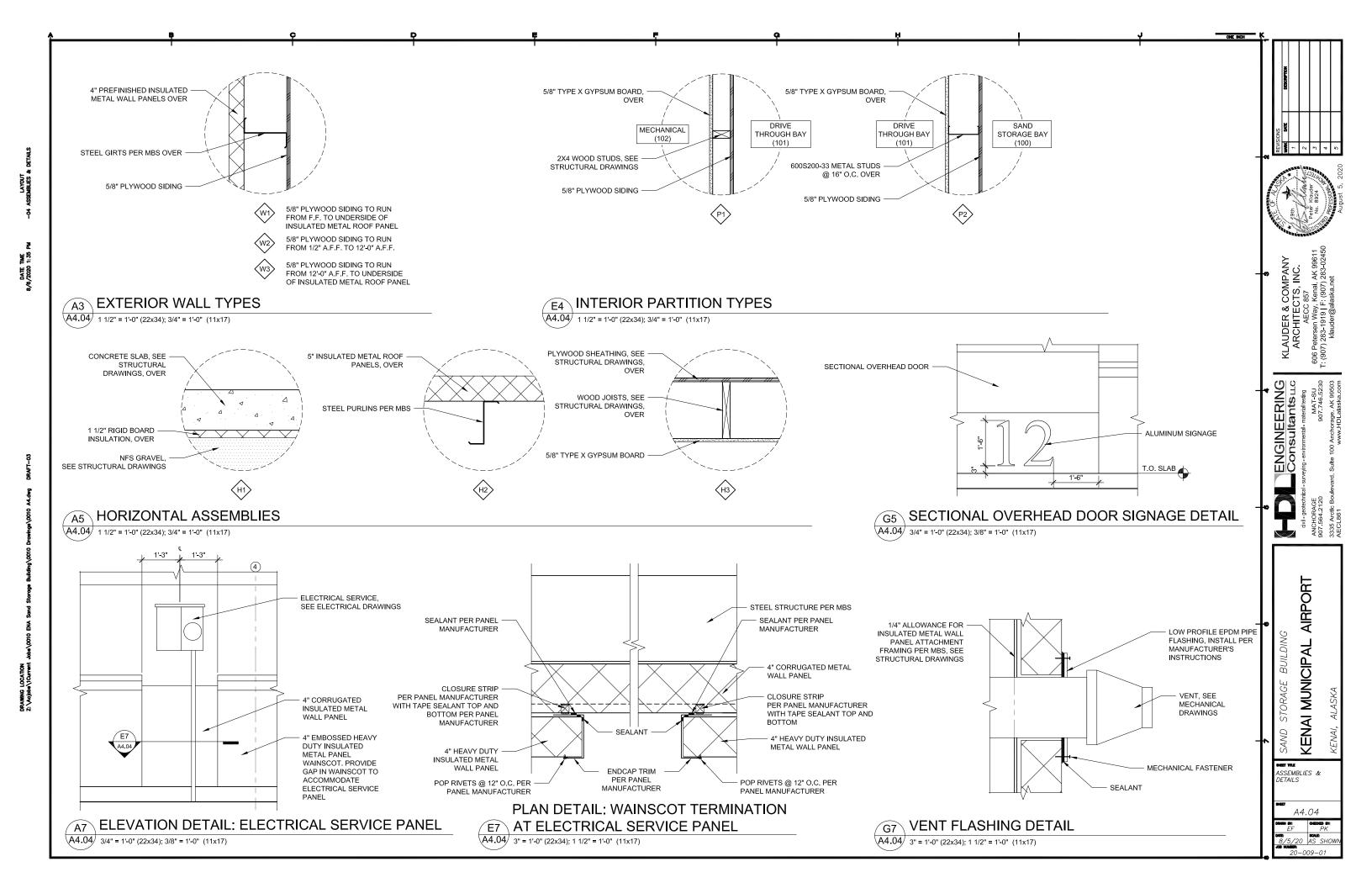


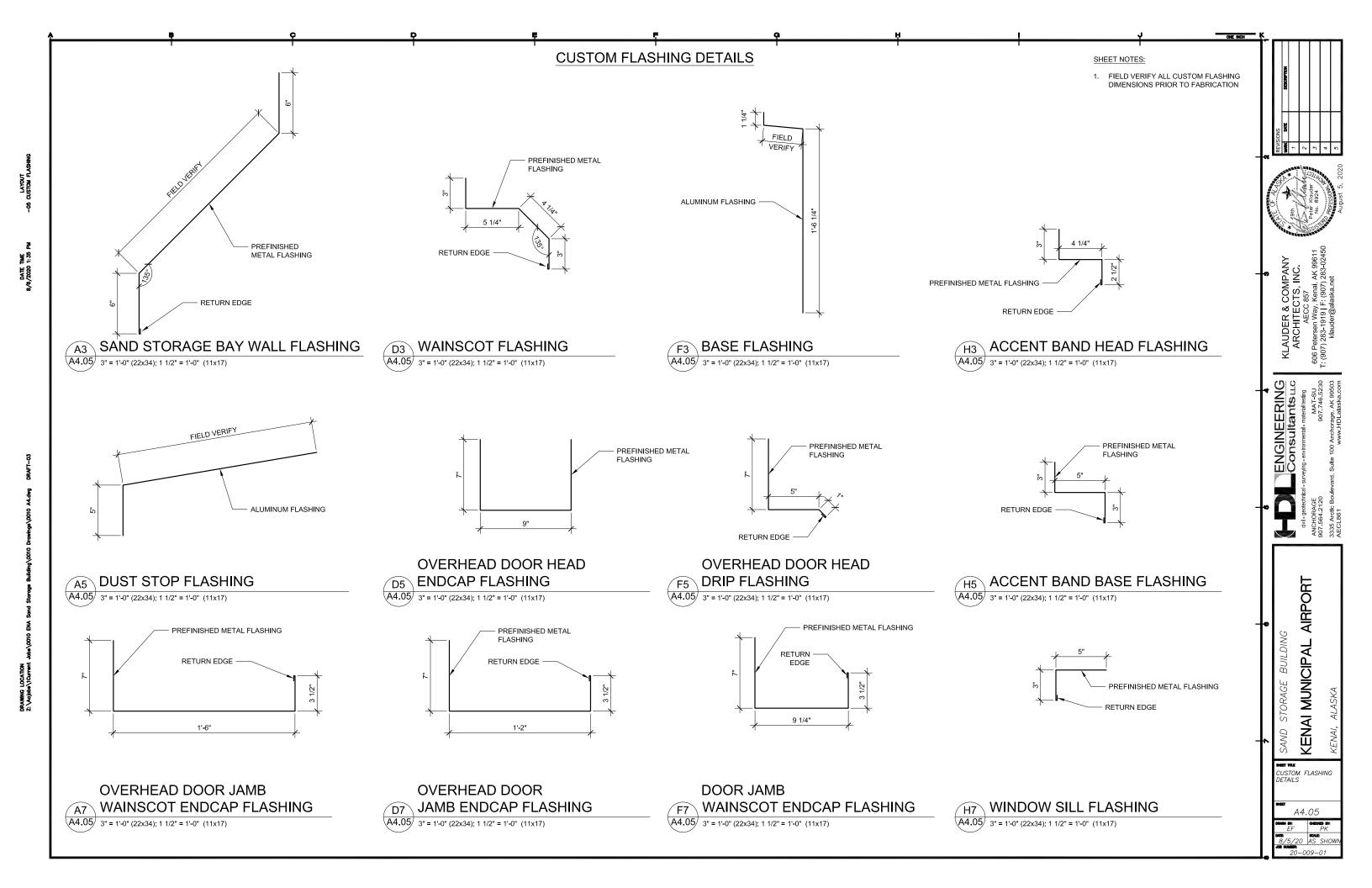












100-1 100-2 101-1 101-2 101-3 101-4 102-1

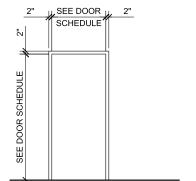
HARDWARE

SET NUMBER DOOR NO.

DOOR SCHEDULE LEGEND

GLASS TYPES 1" INSULATING GLASS INSULATING GLASS PER SECTIONAL STEEL DOOR MANUFACTURER

> INSULATING GLASS PER VINYL WINDOW MANUFACTURER



FRAME TYPES

AIRPORT BUILDING

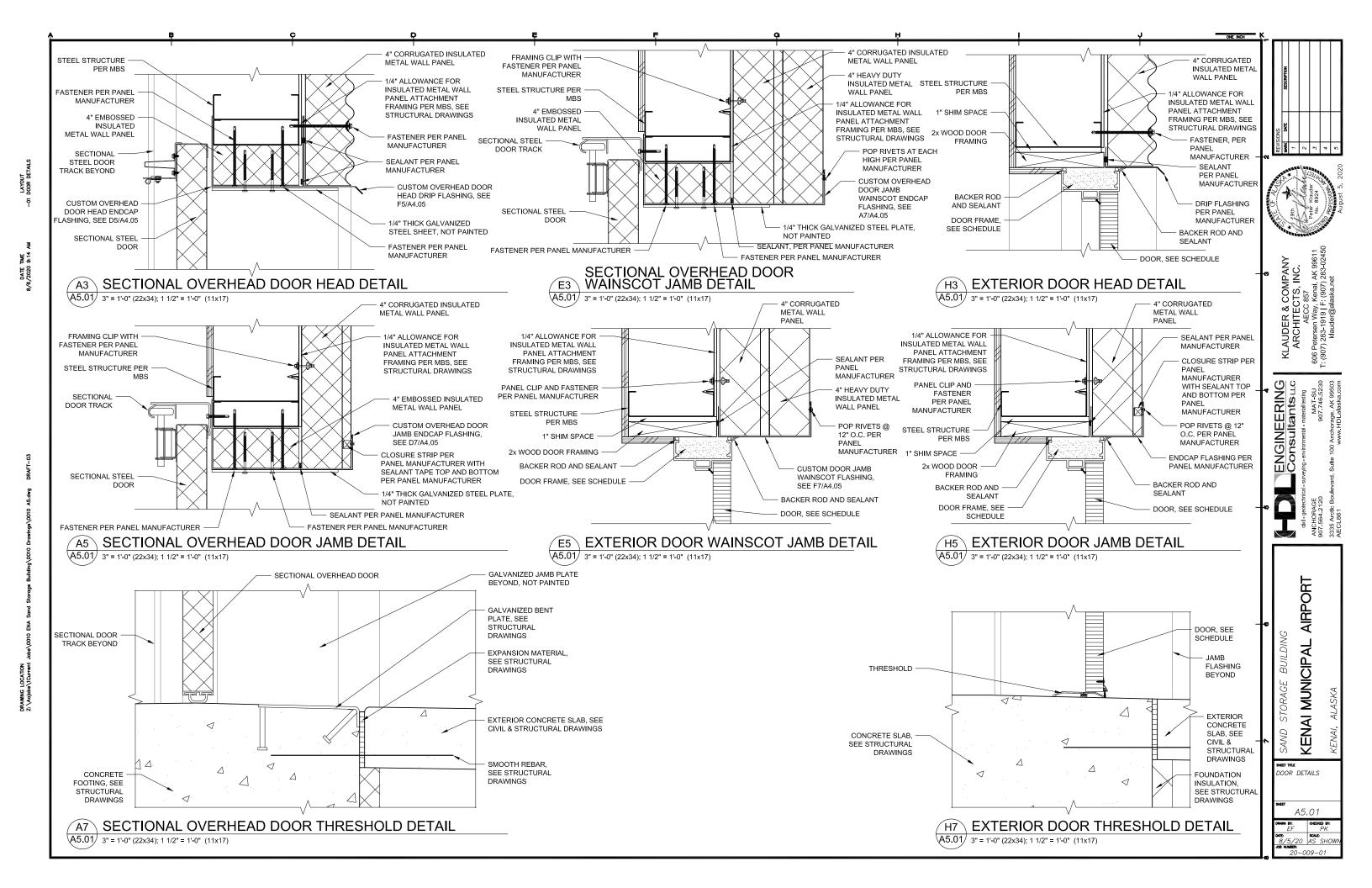
KLAUDER & COMPANY ARCHITECTS, INC.

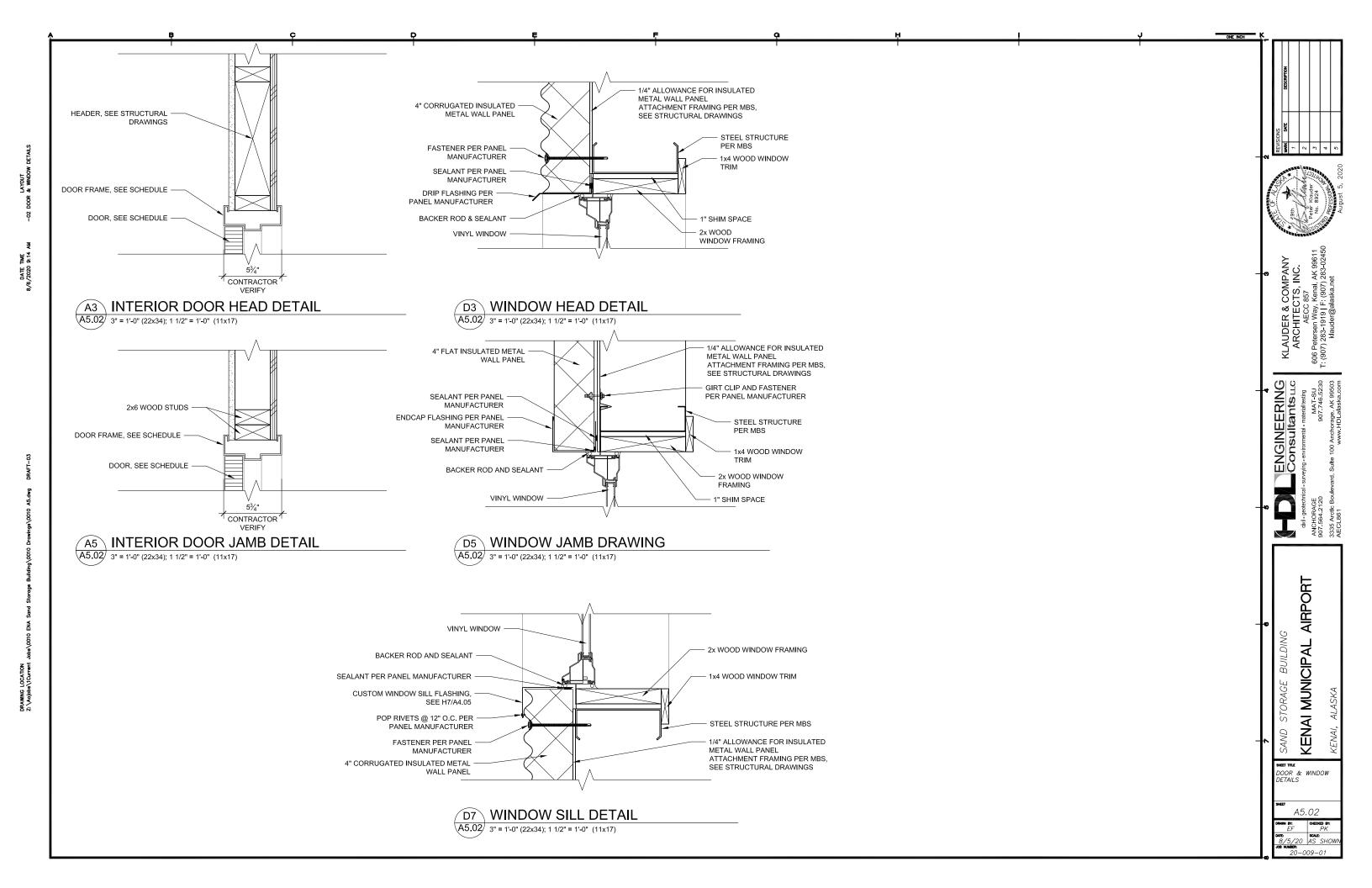
KENAI MUNICIPAL

DOOR SCHEDULE, DOOR TYPES

A5.00

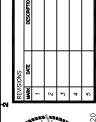
FACTORY FINISH HOLLOW METAL NOT APPLICABLE NUMBER PRIMED AND PAINTED SECTIONAL STEEL





	FINISH SCHEDOLE																										
			FLO	OR		ВА	SE		No	ORTH		E	AST		SC	DUTH		٧	VEST				CEILI	NG			
									٧	VALL		١	VALL		٧	VALL		١	VALL					1			
ROOM NO.	ROOM NAME	MATERIAL	HININH	COLOR	MATERIAL		TNIN T	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR		HEIGHT	REMARKS	ROOM NO.
100	SAND STORAGE BAY	F	C	NA	N.	A F	F :	X1	W1	P1	X2	W1	P1	X2	W1	P1	X2	W1	P1	X2	ES	NA	NA	SI	LOPED	AT WALLS, PAINT ONLY TO BE APPLIED TO PLYWOOD SIDING.	100
101	DRIVE THROUGH BAY	F′	C	NA	νВ	1 F	F :	X1	W2	P1	X2	W1	P1	X2	W1	P1	X2	W1	P1	X2	ES	NA	NA	SI	LOPED	AT WALLS, PAINT ONLY TO BE APPLIED TO PLYWOOD SIDING. RUBBER BASE ONLY TO BE INSTALLED AT PLYWOOD SIDING	101
102	MECHANICAL	F′	C	NA	ιВ	1 F	F :	X1	W2	P1	X2	W2	P1	X2	W1	P1	X2	W2	P1	X2	C1	P1	X2		8'-0"		102

	FINISH SCHEDULE LEGEND												
GENERAL		FLOOR:	S	BASE		WALLS		CEILING	38	FINISH	ES	COLOF	ss .
ES EXF	BOVE FINISH FLOOR KPOSED STRUCTURE DT APPLICABLE JMBER	F1	EXPOSED CONCRETE	B1	RESILIENT BASE	W1 W2	5/8" PLYWOOD SIDING 5/8" TYPE X MOLD RESISTANT GYPSUM BOARD	C1	5/8" TYPE X MOLD RESISTANT GYPSUM CEILING BOARD	FF P1 CC	FACTORY FINISH PAINT (GLOSS LATEX) CURING COMPOUND	X1 X2	BLACK WHITE





KENAI MUNICIPAL AIRPORT SAND STORAGE BUILDING

SHEET TITLE FINISH SCHEDULE

A5.03

FOR DIMENSIONING PURPOSES THE STRUCTURAL DRAWINGS HAVE FINISH FLOOR TOP OF SLAB ELEVATION SET AS ZERO. FOR THE ACTUAL SITE AND BUILDING ELEVATIONS SEE CIVIL.

120

M See

THESE DRAWINGS ARE FOR THE CONSTRUCTION OF (1) BUILDING IN KENAI, ALASKA.

DESIGN LOADS

IN ADDITION TO DEAD LOADS, THE FOLLOWING LIVE LOADS SHALL BE USED FOR DESIGN:

COLLATERAL LOAD: 5 PSF ROOF LOAD FOR MECHANICAL SYSTEMS

Pg = 70 PSF Pf = 60 PSFROOF: GROUND SNOW LOAD FLAT-ROOF SNOW LOAD SNOW EXPOSURE FACTOR Ce = 0.9SNOW LOAD IMPORT FACTOR ls = 1.0

WIND: BASIC WIND SPEED (3 SEC GUST) V = 137 MPH EXPOSURE C EXP = 1.4WIND LOAD IMPORT FACTOR lw = 1.0

METHOD 1 SIMPLIFIED PROCEDURE USED FOR DESIGN COMP & CLADDING WIND LOADS TO BE USED FOR DESIGN PER ASCE 7-16.

SEISMIC: SEISMIC IMPORTANCE FACTOR le = 1.0RESPONSE ACCEL Ss=150%, S1=60% SITE CLASS D SPECTRAL RESPONSE COEFF. Sds = 1.00SEISMIC DESIGN CATEGORY: D SIMPLIFIED DESIGN PROCEDURE PER ASCE 7-16 12-14 USED FOR DESIGN. FOR ORDINARY STEEL MOMENT FRAMES SEISMIC RESPONSE COEFF. Cs = 0.28RESPONSE MODIFICATION FACTOR R = 3.5FOR ORDINARY STEEL CONCENTRICALLY BRACED FRAMES SEISMIC RESPONSE COEFF Cs = 0.31RESPONSE MODIFICATION FACTOR

LATERAL LOADS IN THE PRE-ENGINEERED METAL BUILDING ARE TO BE RESISTED BY STEEL MOMENT FRAMES AND STEEL BRACED FRAMES TO BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.

FLOOR LIVE LOAD (INTERIOR & EXTERIOR SLAB ON GRADE): -HEAVY INDUSTRIAL STORAGE=250 PSF -ASSHTO DESIGN VEHICULAR LIVE LOAD HL-93: MAX POINT LOAD OF 16 KIP OVER 20"X20" AREA. SEE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR ADDITIONAL LOAD REQUIREMENTS.

FLOOR LIVE LOAD (FUTURE STORAGE AREA ABOVE MECHANICAL ROOM):

-MECHANICAL EQUIPMENT LIVE LOAD =125 PSF

SITE WORK

PREPARATION OF A SAFE AND SUITABLE BUILDING SITE SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS AND SLABS. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY HDL ENGINEERING, DATED AUGUST 2020. THE REPORTED ALLOWABLE BEARING CAPACITY OF 3500 PSF WAS USED FOR DESIGN.

ANCHOR BOLTS AND CONCRETE EXPANSION ANCHORS ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO ASTM F1554 GRADE 36. CONCRETE ANCHORS SHALL BE "SIMPSON TITEN HD" CONCRETE ANCHORS OR ENGINEER APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANCHOR BOLTS IN BEARING WALL SILL PLATES SHALL BE PROVIDED WITH HEX HEAD NUTS AND 3"x3"x¼" STEEL PLATE WASHERS. PROVIDE CONCRETE ANCHORS AT 24" O/C SPACING AT ALL SILL GIRTS UNLESS NOTED OTHERWISE. NELSON STUDS SHALL BE %" DIAMETER BY 4-1/8" IN LENGTH UNLESS OTHERWISE NOTED

FOUNDATIONS

REMOVE ORGANICS AND UNSUITABLE MATERIAL TO A MINIMUM DEPTH OF 3 FT BELOW EXISTING GRADE OR AS DIRECTED BY THE ENGINEER. FILL PLACED LESS THAN 12" BELOW THE PROPOSED FOOTINGS AND LESS THAN 6" BELOW THE BUILDING SLAB SHALL BE MATERIAL MEETING THE REQUIREMENTS OF SUBBASE. FILL PLACED MORE THAN 12" BELOW THE PROPOSED FOOTINGS AND MORE THAN 6" BELOW THE BUILDING SLAB SHALL BE MATERIAL MEETING THE REQUIREMENT OF SUITABLE

MIXING, SELECTION OF MATERIALS, AND PLACING OF ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE IBC, CHAPTER 19. AN AIR ENTRAINING AGENT SHALL BE USED IN ALL CONCRETE MIXES FOR CONCRETE WORK WHICH IS TO BE EXPOSED TO EARTH OR WEATHER. AIR ENTRAINMENT SHALL BE 6% +/- 1.5% BY VOLUME, CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) = 3000 P.S.I. CONCRETE FOR INTERIOR AND EXTERIÓR SLABS SHALL CONTAIN 0.1% BY VOLUME 'GENESIS FIBER' COLLATED FIBRILLATED POLYPROPYLENE FIBER PER CUBIC YARD OF CONCRETE, OR ENGINEER APPROVED EQUAL. THE FIBER SHALL BE THOROUGHLY MIXED INTO THE CONCRETE IN TRANSIT TO THE SITE, IN ACCORDANCE WITH THE FIBER MANUFACTURER'S RECOMMENDATIONS.

SLAB ON GRADE

PLACE REINFORCING STEEL AT MID-DEPTH OF SLAB AND SUPPORT AT 4' O/C MAXIMUM WITH WELL CURED CONCRETE BLOCKS OR APPRÓVED METAL CHAIRS UNLESS NOTED OTHERWISE. REINFORCEMENT AT TOP OF 12" SLAB SHALL CONSIST OF #8 REBAR AT 10" O/C PERPENDICULAR TO THE ADJACENT RETAINING WALL & #5 BARS AT 12" O/C PARALLEL TO THE ADJACENT RETAINING WALL. REINFORCEMENT AT BOTTOM OF SLAB SHALL CONSIST OF #5 BARS AT 12" O/C EACH WAY.

INTERIOR SLABS: PROVIDE PREFORMED CONSTRUCTION JOINTS (C.J.) AT LOCATIONS SHOWN ON THE PLANS AND AT 24' O/C

EXTERIOR SLABS: PROVIDE PREFORMED CONSTRUCTION JOINTS (C.J.) AT LOCATIONS SHOWN ON THE PLANS AND AT 20' O/C

REINFORCING STEEL

UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO IBC CHAPTER 19. REINFORCING BARS SHALL BE GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH NO. 16 DOUBLE ANNEALED IRON WIRE. REINFORCING IN FOOTINGS SHALL BE SUPPORTED ON WELL CURED CONCRETE BLOCKING OR APPROVED METAL CHAIRS. REINFORCING BARS NO. 6 AND SMALLER SHALL BE SPLICED BY A LAP OF AT LEAST (44) BAR DIAMETERS. REINFORCING BARS NO. 7 OR LARGER SHALL BE SPLICED BY A LAP OF AT LEAST (55) BAR DIAMETERS. A MINIMUM LAP FOR ALL BARS SHALL BE 24". CONCRETE COVER OVER REINFORCING SHALL BE 3" FOR CONCRETE CAST AGAINST EARTH. CONCRETE COVER FOR FORMED CONCRETE THAT WILL BE EXPOSED TO WEATHER OR EARTH SHALL BE 2" MINIMUM FOR NO. 6 THROUGH NO. 18 BARS AND 1 1/2" MINIMUM FOR NO. 5 BARS AND SMALLER, INCLUDING WELDED WIRE FABRIC (WWF). OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF NOT LESS THAN 3/4".

STRUCTURAL STEEL AND CONNECTORS

STRUCTURAL STEEL SHALL CONFORM TO IBC CHAPTER 22, FOR ASTM SPECIFICATION A-36, FY = 36 K.S.I. EXCEPT WHERE NOTED OTHERWISE. STEEL TUBING (TS) SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 K.S.I. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE IBC CHAPTER 22, DIVISION IX, ALLOWABLE STRESS DESIGN. MACHINE BOLTS (MB) SHALL CONFORM TO ASTM A307 AND SHALL BE PROVIDED WITH STANDARD HEX HEAD NUTS CONFORMING TO ASTM A563, GRADE A AND HARDENED STEEL CIRCULAR WASHERS CONFORMING TO ASTM F436. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY D1.1. ALL WELDS SHALL BE CONTINUOUS 3/16" MINIMUM UNLESS OTHERWISE NOTED. ELECTRODES SHALL BE A.W.S. E-70.

STEEL BAR GRATING

ALL STEEL BAR GRATING SHALL BE 1 1/4" X 1/4" 19-W-4 GRATING. ALL BAR GRATING SHALL BE HOT DIPPED GALVANIZED AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI. BEARING BARS SHALL BE 1 1/4" X 1/4" AND SPACED 1 3/16" O/C. BEARING BARS SHALL BE LOCKED BY SWAGING CONSTRUCTION WITH REGULAR CROSS BARS SPACED AT 4" O/C. BEARING BARS SHALL BE ALIGNED PERPENDICULAR TO DIRECTION OF TRENCH.

METAL BUILDING NOTES:

METAL BUILDING SUPPLIER SHALL PROVIDE STAMPED PLANS & REACTIONS TO THE ENGINEER OF RECORD AS A DEFERRED SUBMITTAL. THE METAL BUILDING SHALL MEET THE FOLLOWING REQUIREMENTS:

- 1) FRAMES, COLUMNS, BRACES, WALL GIRTS AND PURLINS SHALL BE LOCATED AS SHOWN IN THIS DRAWING SET. NO STRUCTURAL MEMBERS SHALL BE RELOCATED WITHOUT APPROVAL OF ENGINEER OF RECORD.
- 2) COLUMNS SHALL BE PROVIDED WITHOUT FLANGE BRACES.
- 3) WIND LOAD DESIGN SHALL CONSIDER THE DOORS OPEN AND CLOSED.
- 4) METAL BUILDING FRAMING SHALL BE PROVIDED AS REQUIRED TO MAINTAIN OPENING AND CLEARANCE DIMENSIONS AS SHOWN ON THE STRUCTURAL DRAWINGS.
- 5) WALL AND ROOF GIRTS SHALL HAVE A MAXIMUM SPACING OF 4' 0/C.
- 6) METAL BUILDING SHALL BE DESIGNED TO SUPPORT LATERAL FORCES FROM INTERIOR WOOD STRUCTURE.
- 7) BASE PLATE DESIGN SHALL USE THE ANCHOR BOLT LAYOUT PROVIDED IN THESE PLANS.
- 8) METAL BUILDING SUPPLIER SHALL PROVIDE FURRING MEMBERS FOR HORIZONTAL PANEL ATTACHMENT.

PLYWOOD

ALL PLYWOOD SHALL CONFORM TO IBC CHAPTER 23 AND SHALL BE AMERICAN PLYWOOD ASSOCIATION GRADE TRADE MARKED. PLYWOOD SHALL BE GROUP I OR GROUP II DOUGLAS FIR. ALL PANELS SHALL BE NOMINAL 4' X 8' PANELS. UTILIZE FULL SHEETS WHEREVER POSSIBLE. LAY FACE GRAIN OF FLOOR SHEATHING PANELS PERPENDICULAR TO JOISTS AND WITH PANEL CONTINUOUS OVER THREE OR MORE SPANS. STAGGER END JOINTS OF SUCCESSIVE COURSES 4' - 0". WALL SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PARALLEL TO STUDS, (LONG DIMENSION VERTICAL).

WALL SHEATHING: EXCEPT WHERE NOTED OTHERWISE, WALL SHEATHING SHALL BE 15/32" THICK STRUCTURAL 1 PLYWOOD AND SHALL BE FASTENED TO STEEL FRAMING WITH #10 GALV SCREWS @ 6" O/C ALONG PANEL EDGES AND #10 GALV SCREWS @ 12" O/C ALONG INTERMEDIATE FRAMING. FASTEN SHEATHING TO WOOD FRAMING WITH 8D (0.131"X2.5" COMMON, 0.113"X2.5" GALVANIZED BOX) GALV NAILS @ 6" O/C ALONG PANEL EDGES AND 8D GALV NAILS @ 12" O/C ALONG INTERMEDIATE FRAMING. WALL SHEATHING SHALL BE BLOCKED AT ALL EDGES WITH NOMINAL 2" WIDE BLOCKING.

FLOOR SHEATHING: EXCEPT WHERE NOTED OTHERWISE, FLOOR SHEATHING SHALL BE 3/4" THICK TONGUE AND GROOVE STRUCTURAL 1 PLYWOOD AND SHALL BE FASTENED TO FRAMING WITH #10 GALV SCREWS @ 6" O/C ALONG PANEL EDGES AND #10 GALV SCREWS @ 12" O/C ALONG INTERMEDIATE FRAMING.

SAWN LUMBER AND TIMBER

LUMBER SHALL CONFORM TO THE CLASSIFICATION, DEFINITION, AND GRADING REQUIREMENTS OF IBC CHAPTER 23 WITH ALLOWABLE UNIT STRESSES AS GIVEN IN THE AMERICAN FOREST & PAPER ASSOCIATION 'NATIONAL DESIGN SPECIFICATION 2012 SUPPLEMENT', TABLE 4A. LUMBER SHALL BE GRADE MARKED BY THE WEST COAST LUMBER INSPECTION BUREAU /WESTERN WOOD PRODUCTS ASSOCIATION.

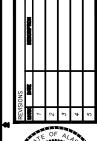
SPECIES 4 X AND LARGER DOUGLAS FIR #2 BEARING WALL PLATES HEM FIR #2 BEARING WALL STUDS HEM FIR #2 HEM FIR #2 ALL OTHER LUMBER

ALL LUMBER SHALL BE FASTENED IN CONFORMANCE WITH TABLE 2304.9.1 OF THE IBC. UNLESS NOTED OTHERWISE. FASTENERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. FASTEN ALL JOIST BLOCKING TO PLATES WITH (4) 16D MINIMUM AND FASTEN ALL WALL PLATES TO WOOD FLOORS WITH 16D AT 6" ON CENTER TYPICAL. DOUBLE TOP PLATES SHALL OVERLAP 8'-0" MINIMUM AND SHALL BE SPLICED TOGETHER WITH (40) 16D NAILS. (2" O/C STAGGERED MINIMUM UNLESS NOTED OTHERWISE.) NAIL LENGTH AND DIAMETER SHALL BE AS REQUIRED IN THE NAIL SIZE SCHEDULE UNLESS NOTED OTHERWISE IN DRAWING SET.

PROVIDE JOIST/BEAM HANGERS WITH LOAD CAPACITY EQUAL TO SUPPORTED MEMBER SHEAR LOAD CAPACITY FOR ALL MEMBERS NOT OTHERWISE PROVIDED WITH DIRECT BEARING SUPPORT. PROVIDE A MINIMUM OF (2) KING STUDS AND (2) CRIPPLE STUDS FOR ALL BEARING WALL HEADERS. PROVIDE A MINIMUM OF (1)KING STUD AND (1) CRIPPLE STUD AT NON-BEARING WALL HEADERS. PROVIDE SOLID BLOCKING SUPPORT FOR BEAMS AND HEADERS CONTINUOUS DOWN TO FOUNDATIONS. MINIMUM HEADER OVER OPENINGS IN BEARING WALLS SHALL BE 4X12 DF#1 UNLESS NOTED OTHERWISE. MINIMUM HEADER IN NON-BEÄRING INTERIOR PARTITION WALLS SHALL BE A SINGLE 2X8.

BOLT HEADS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH FLAT WASHERS. SOLID BLOCKING OF NOT LESS THAN 2" NOMINAL THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORTS OF JOISTS AND RAFTERS, UNLESS SHOWN OTHERWISE. BEAM AND JOIST HANGERS SHALL HAVE A CAPACITY EQUAL TO THE SHEAR STRENGTH OF THE BEAM OR JOIST WHICH IT IS SUPPORTING, UNLESS NOTED OTHERWISE. ALL METAL FRAMING ANCHORS AND HANGERS SHOWN ON DRAWINGS SHALL BE "STRONG TIE CONNECTORS" AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUAL. ALL METAL FRAMING ANCHORS AND HANGERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL.

NAIL SIZE SCHEDULE								
MARK	MIN. SHANK DIA.	MIN. LENGTH						
8D	0.113"	2-3/8"						
IOD	0.120"	2-7/8"						
16D	0.148"	3-1/4"						







ENGINEERING Consultants Lo

AIRPORT MUNICIPAL BUIL KENAI

NOTES & SPECIFICATIONS

> S1.01 CAM

SPECIAL INSPECTION NOTES

THE OWNER SHALL PROVIDE THE FOLLOWING SPECIAL INSPECTION FOR THE PROJECT DURING CONSTRUCTION. OWNER SHALL CONTRACT DIRECTLY AND PAY FOR SPECIAL INSPECTION.

CONTRACTOR SHALL:

DATE TIME 8/6/2020 10:20

- 1. NOTIFY OWNERS REP WITHIN 24 HOURS OF REQUIRED
- 2. COORDINATE & PLAN WORK TO ALLOW FOR INSPECTION
- PROVIDE ALL ITEMS LISTED AT QUALITY CONTROL.
 PROVED AISC APPROVED FABRICATION SHOP FOR ALL STEEL

_									
	IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS								
	VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REQUIRED					
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY .	-	Х	YES					
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	х	YES					
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	х	YES					
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-	YES					
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х	YES					

	IBC TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION								
	VERIFICATION AND INSPECTION	CONT.	PERIODIC	REFERENCED STANDARD ^a	IBC REF	REQUIRED			
1.	INSPECTION FOR REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	х	ACI 318: 3.5, 7.1-7.7	1910.4	YES			
2.	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	-	-	AWS D1.4 ACI 318:3.5.2	-	NO			
3.	INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	х	-	ACI 318: 8.1.3, 21.1.8	1908.5, 1909.1	YES			
4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	-	х	ACI3 18: 3.8.6, 8.1.3, 21.1.8	1909.1	YES			
5.	VERIFY USE OF REQUIRED DESIGN MIX	-	х	ACI 318: CH. 4, 5.2-5.4	1904.2, 1910.2, 1910.3	YES			
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10	YES			
7.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	х	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8	YES			
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	х	ACI 318: 5.11-5.13	1910.9	YES			
9. a. b.	FORCES.	x	-	ACI 318: 18.20 ACI 318: 18.18.4	-	NO			
10.	ERECTION OF PRECAST CONCRETE MEMBERS.	-	х	ACI 318: CH. 16	-	NO			
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	х	ACI 318: 6.2	-	NO			
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х	ACI 318: 6.1.1	-	YES			

- WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTION FOR SEISMIC RESISTANCE
- SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION



SPECIAL INSPECTION NOTES

THE OWNER SHALL PROVIDE THE FOLLOWING SPECIAL INSPECTION FOR THE PROJECT DURING CONSTRUCTION.

	AISC TABLE N5.4 INSPECTION TASKS PRIOR		
	VERIFICATION AND INSPECTION TASK	QC	QA
1.	WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	Р	Р
2.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	P
3.	MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
4.	WELDER IDENTIFICATION SYSTEM	0	0
5.	FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)	0	0
6.	CONFIGURATION AND FINISH OF ACCESS HOLES	0	0
7. •	FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACE) TACKING (TACK WELD QUALITY AND LOCATION)	0	0
8.	CHECK WELDING EQUIPMENT	0	-

- P= PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER
- OBSERVE THESE ITEMS ON A RANDOM BASIS.

DATE /8/8/2020

QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

AISC TABLE N5.4-2 INSPECTION TASKS DURING WELDING								
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- PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER

- O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
 QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
 QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

	AISC TABLE N5.4 INSPECTION TASKS AFTE					
	VERIFICATION AND INSPECTION TASK	QC	QA			
1.	WELDS CLEANED	0	0			
2.	SIZE, LENGTH AND LOCATION OF WELDS	Р	Р			
•	WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY	P	P			
4.	ARC STRIKES	Р	Р			
5.	k-AREA	Р	Р			
6.	BACKING REMOVED AND WELD TABS REMOVED	Р	Р			
7.	REPAIR ACTIVITIES	Р	Р			
8.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р			

- PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER
- O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
- QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

	AISC TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING							
	VERIFICATION AND INSPECTION TASK	QC	QA					
1.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	Р					
2.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0					
3.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0					
4.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0					
5.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0					
6.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	Р	0					
7.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0					

- P= PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER
 O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
 QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

	AISC TABLE N5.6-2 INSPECTION TASKS DURING BOLTING								
	VERIFICATION AND INSPECTION TASK	QC	QA						
1.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0						
2.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	o						
3.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	o						
4.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0						

- P= PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
- QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

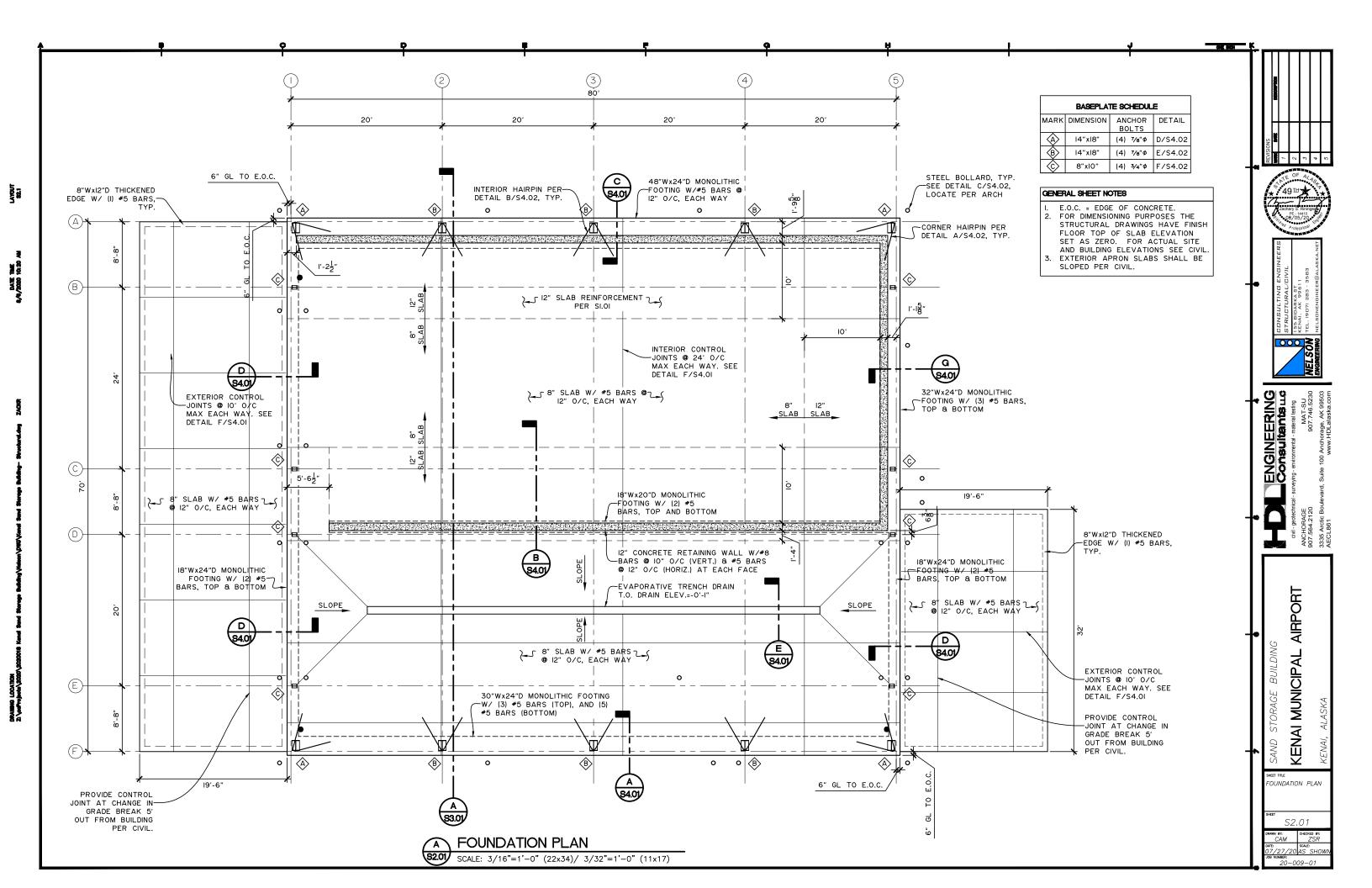
	AISC TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING							
	VERIFICATION AND INSPECTION TASK	QC	QA					
1.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	P					

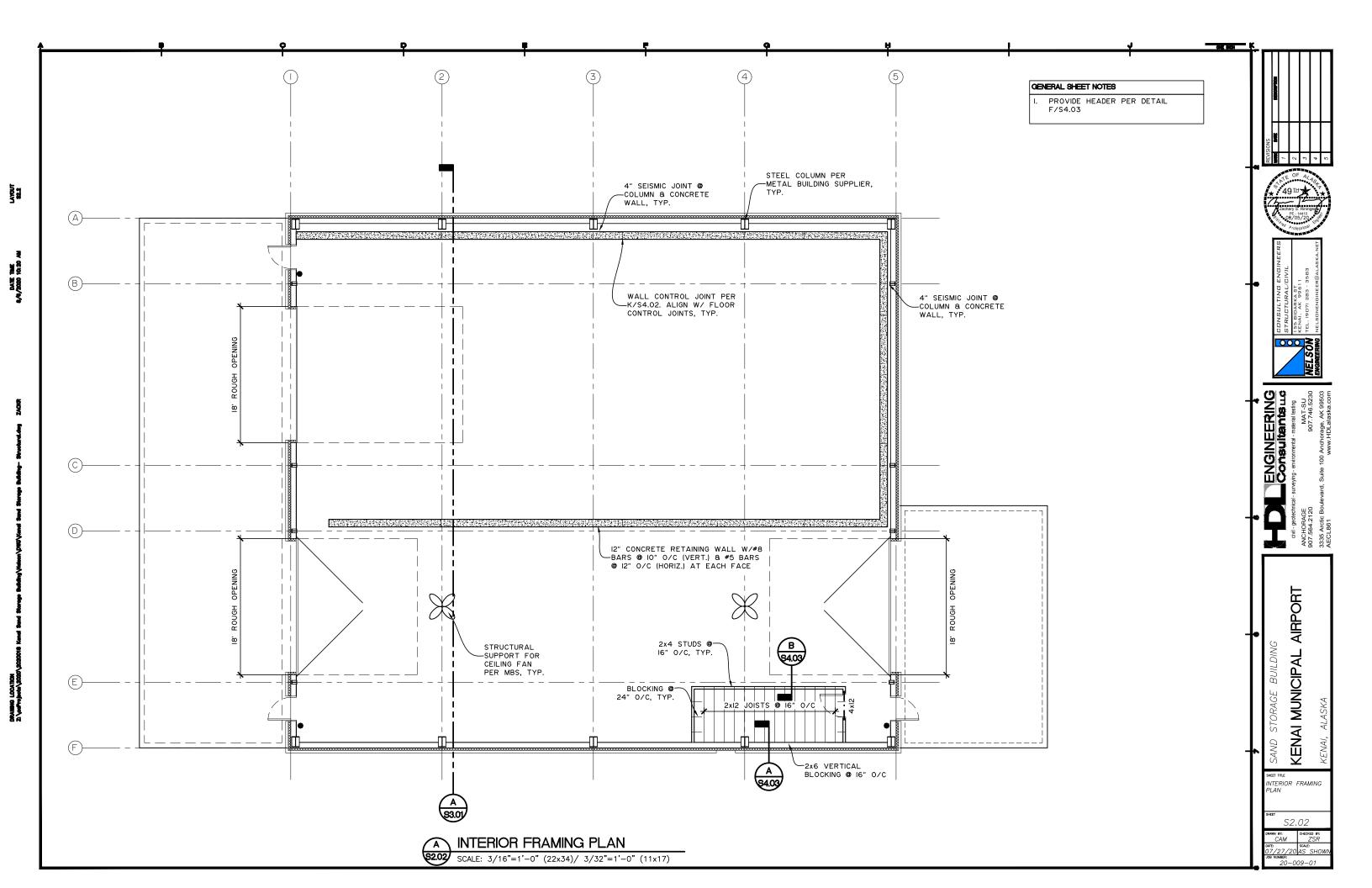
- P= PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
- QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

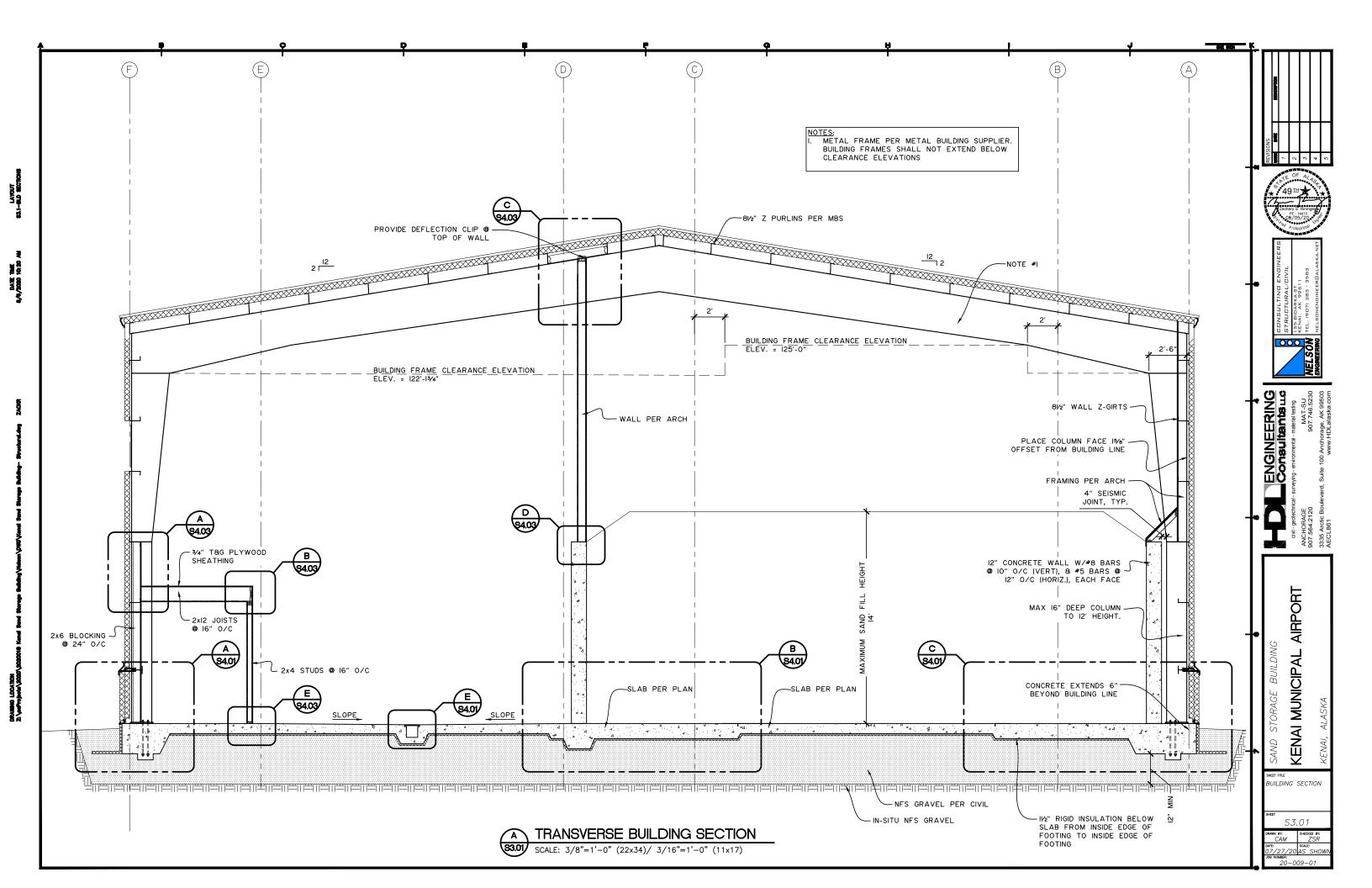
AISC TABLE N6.1 INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT								
	VERIFICATION AND INSPECTION TASK	QC	QA					
1.	PLACEMENT AND INSTALLATION OF STEEL DECK	Р	Р					
2.	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	Р	Р					
3.	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	Р	Р					

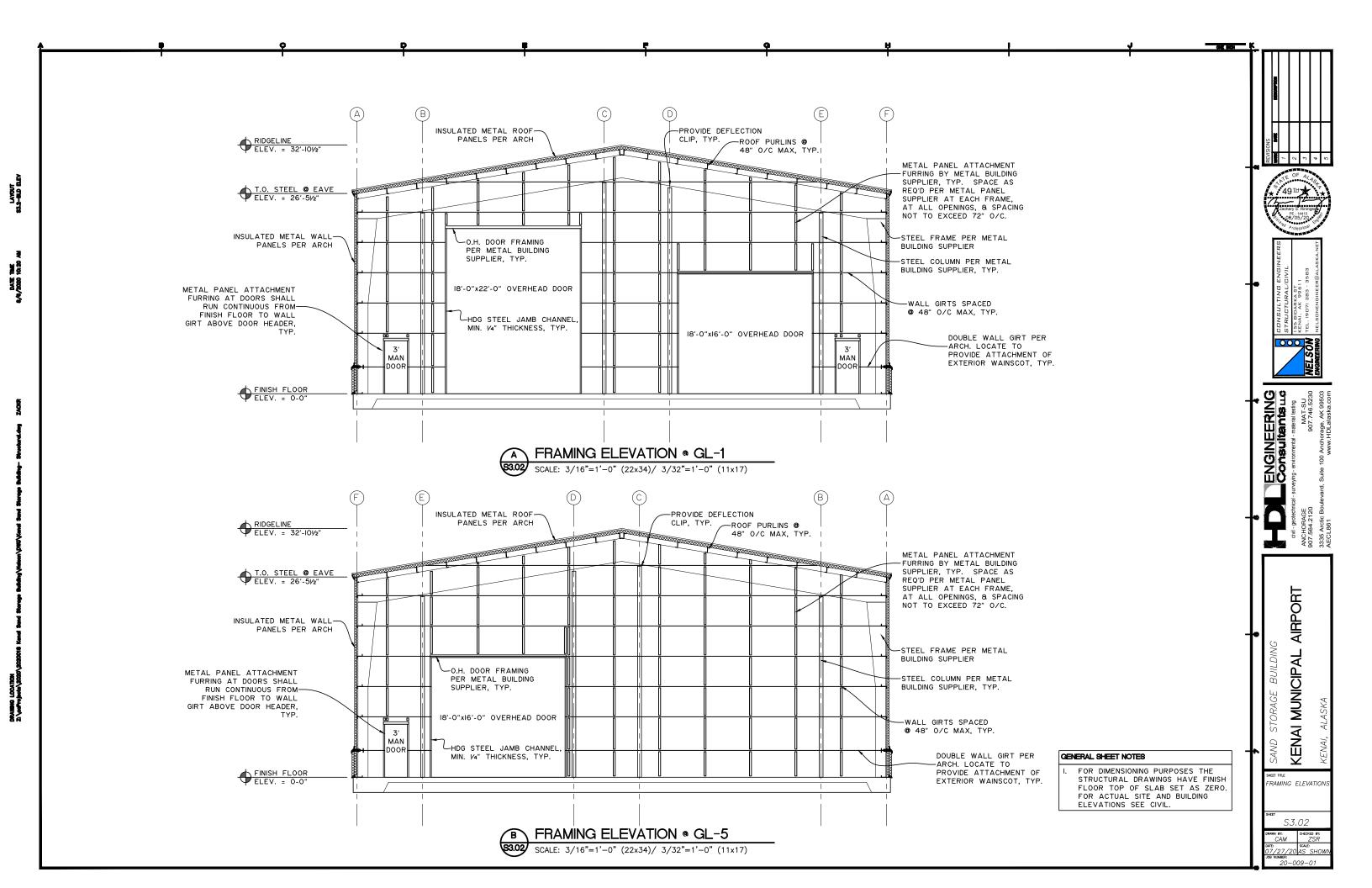
- P= PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER
 O= OBSERVE THESE ITEMS ON A RANDOM BASIS.
 QC= QUALITY CONTROL AS SPECIFIED SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- QA= QUALITY ASSURANCE SHALL BE PROVIDED BY THE SPECIAL INSPECTOR EMPLOYED BY THE OWNER.

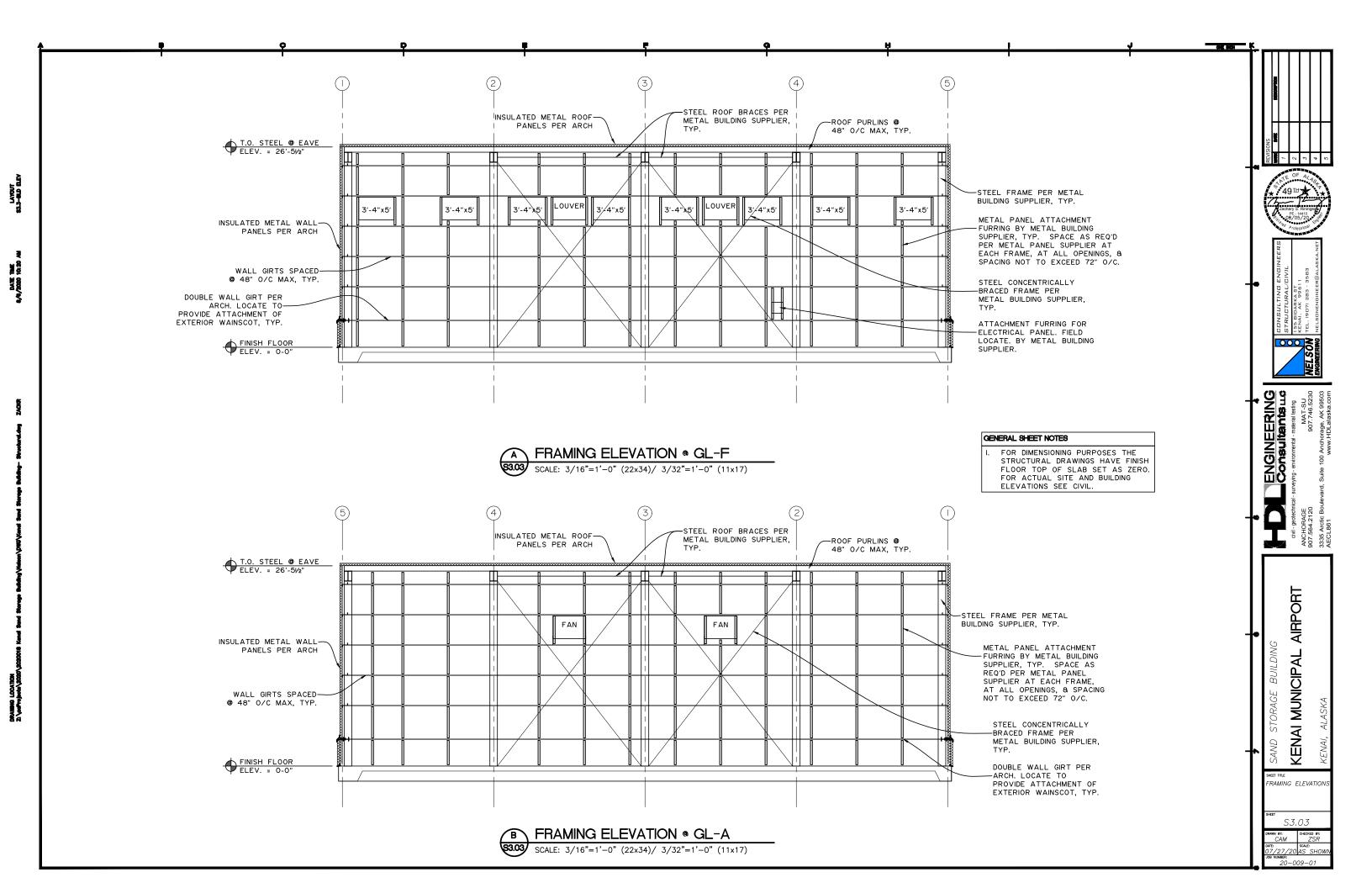
AIRPORT KENAI MUNICIPAL SPECIAL INSPECTIO S1.03 CAM

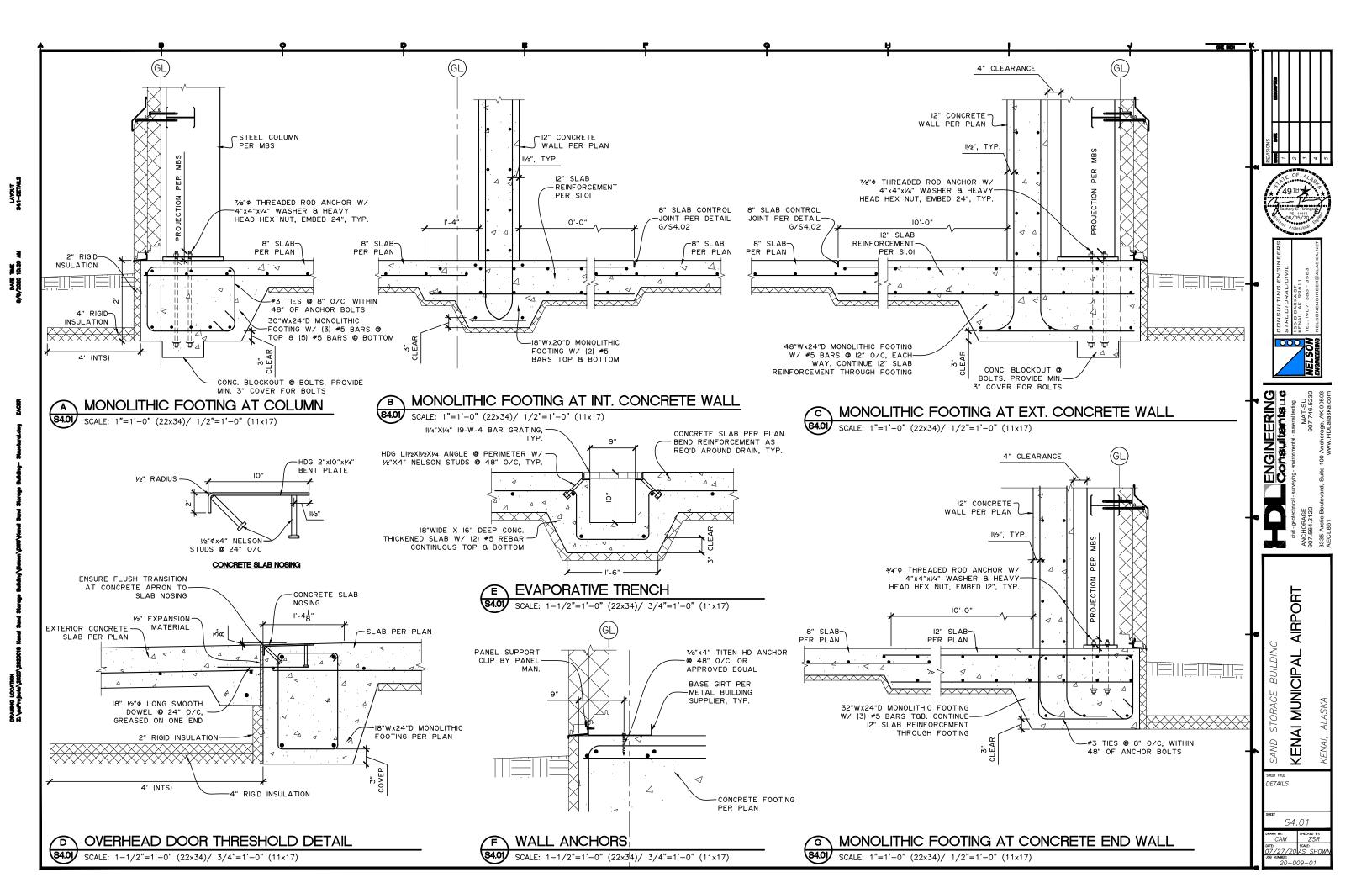


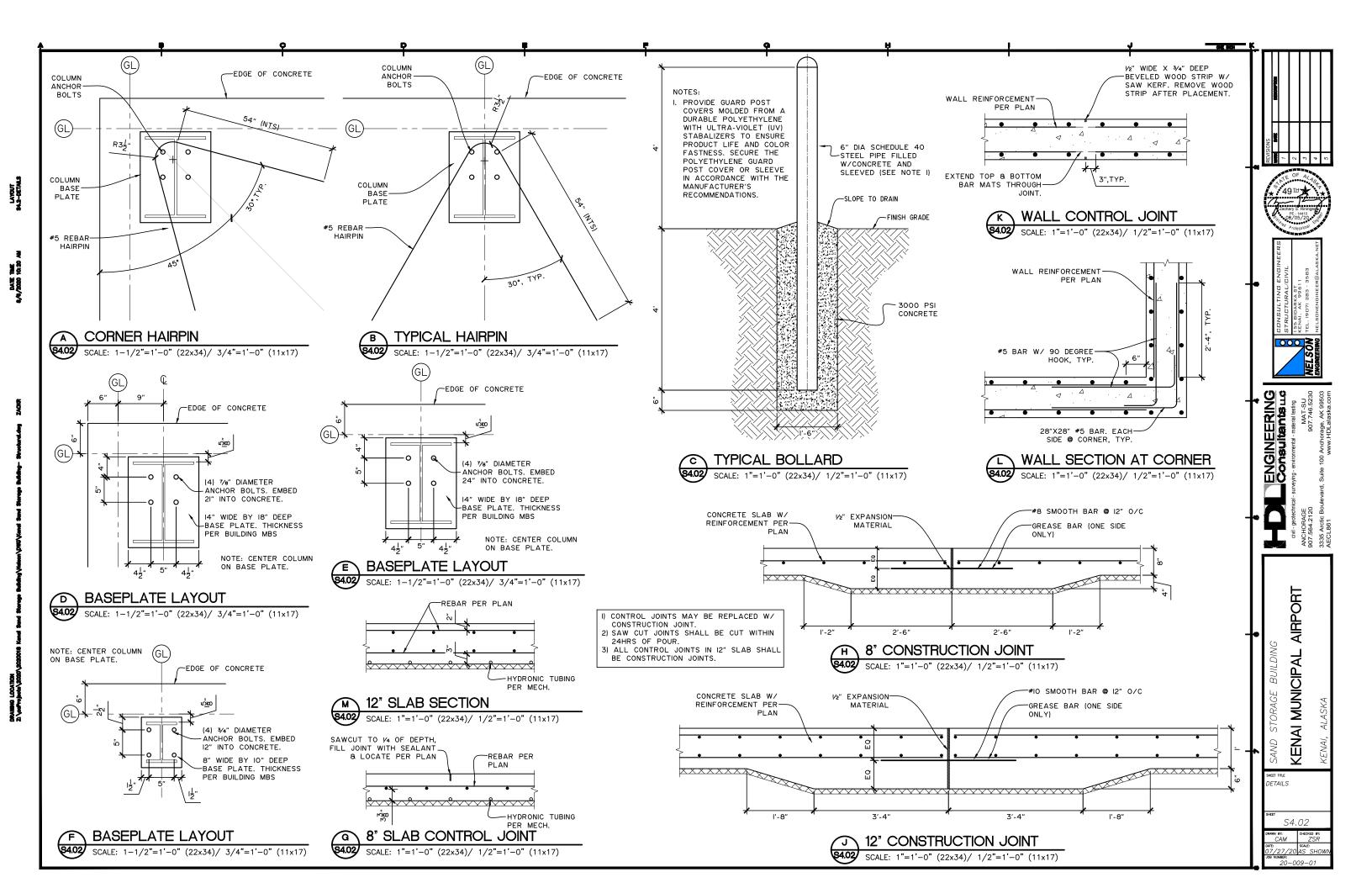


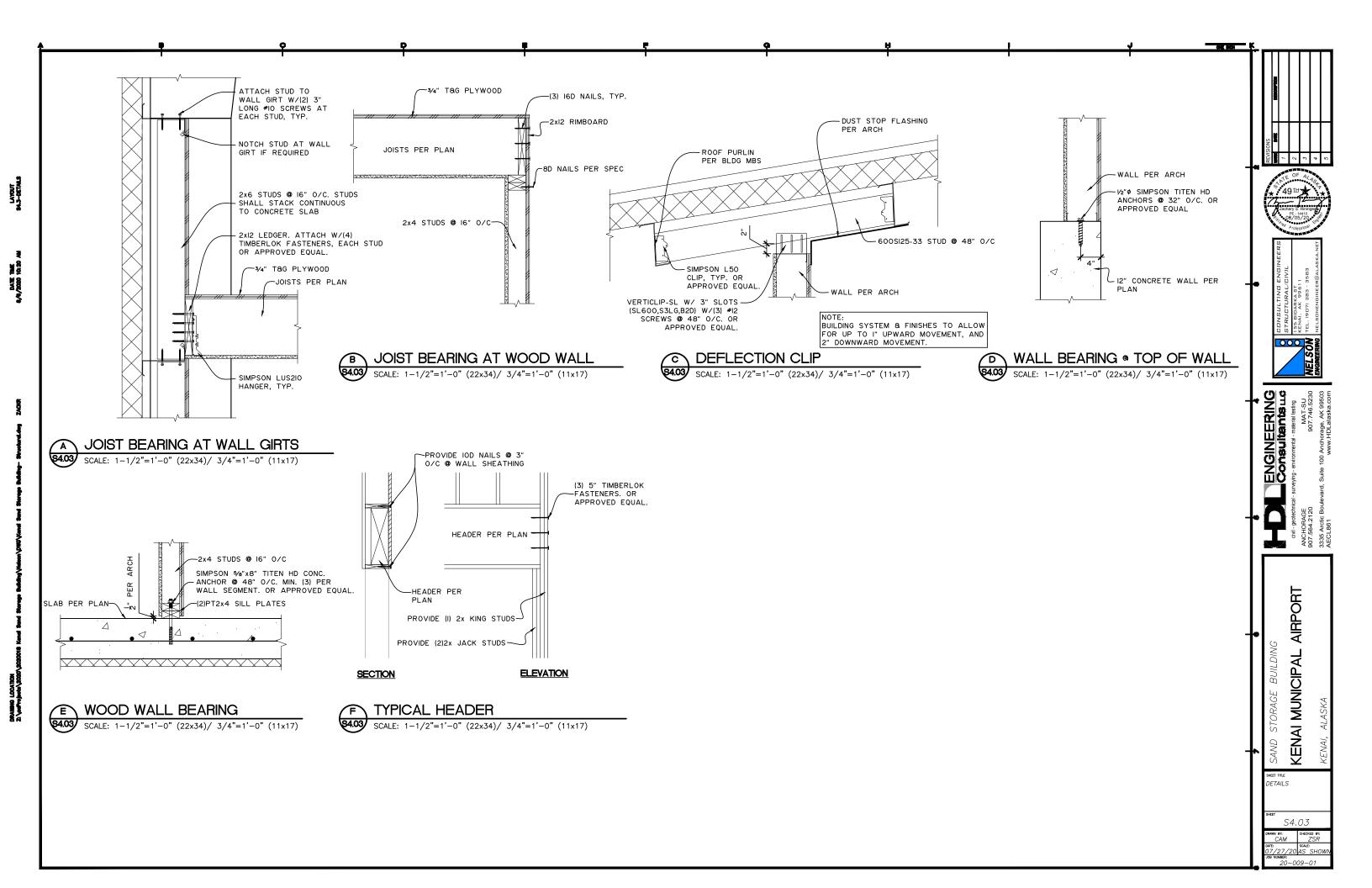














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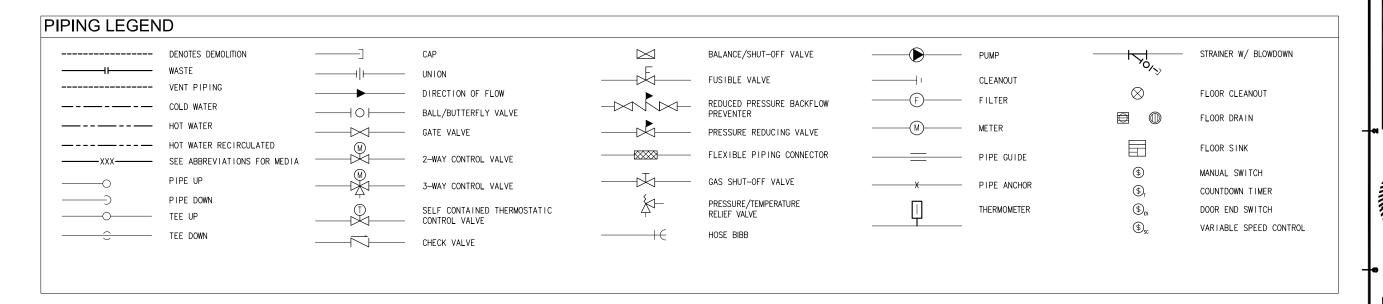
WATER PRESSURE DROP

ORI **AIRP** MUNICIPAL BUILDII

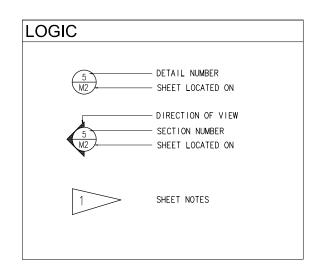
KENAI

LEGEND & ABBREVIATIONS

MO.01



ABBREVIATIONS COMPRESSED AIR CIRCULATING EXTERNAL STATIC PRESSURE HEATING GLYCOL RETURN MOTOR OPERATED DAMPER SQUARE EGT ENTERING GLYCOL TEMPERATURE HEATING GLYCOL SUPPLY TEMP TEMPERATURE CEILING HGS MTD MOUNTED AMERICAN W/ DISABILITIES ACT GUIDELINES CONT CONTINUED **ENTERING** HOA HAND-OFF-AUTO NOISE CRITERIA TOTAL STATIC PRESSURE C.O./CO CLEANOUT EXIST **EXISTING** HOT WATER NUMBER T'STAT THERMOSTAT ABOVE FINISHED FLOOR NOT TO SCALE AFF HOT WATER CIRCULATED CONN CONNECTION HWC NTS TTL TW CABINET UNIT HEATER DESIGNATOR FINNED TUBE RADIATION DESIGNATOR TEMPERED WATER AFG ABOVE FINISHED GRADE CUH-X FT-X HP HORSEPOWER O/A OD OUTSIDE AIR AHAP AS HIGH AS POSSIBLE FEET PER MINUTE ΗZ OUTSIDE DAMPER TWC TEMPERED WATER CIRCULATED COPPER FPM CU HERTZ PD PG ALUMINUM COLD WATER FINS PER FOOT INSIDE DAMPER PRESSURE DROP **TYPICAL** AMPS AMPERES DIAMETER FAHRENHEIT PROPYLENE GLYCOL UNIFORM PLUMBING CODE APD AIR PRESSURE DROP **DECIBLES** FC0 FLOOR CLEANOUT LAT LEAVING AIR TEMPERATURE PH PHASE VENT POUND PER SQUARE INCH ARCH ARCHITECTURAL DEG DIM DEGREE FD FIRE DAMPER LAV LF LAVATORY PSI VAC VOLT-AC POUNDS PER SQUARE INCH GAUGE BDD BACKDRAFT DAMPER FINISHED LINEAL FEET PSIG VDC DIMENSION FIN VOLT-DC DN FLR LEAVING GLYCOL TEMPERATURE R/A RETURN AIR BUILDING LGT VELOCITY BLDG DOWN FLOOR ٧EL BTUH BRITISH THERMAL UNIT/HOUR DWG LWT LEAVING WATER TEMPERATURE RPM REVOLUTIONS PER MINUTE VENT THRU ROOF DRAWING GAUGE EXHAUST AIR GALLONS PER HOUR RZM-X RADIANT ZONE MANIFOLD DESIGNATOR WC WATER COLUMN CAPACITY MAXIMUM C/A COMBUSTION AIR ENTERING AIR TEMPERATURE **GALLONS** MBH THOUSAND BTUH SUPPLY AIR WATER GAUGE GALLONS PER MINUTE CFM CUBIC FEET PER MINUTE FFF FFFICIENCY GPM MCA MINIMUM CIRCUIT AMPACITY SCEM STANDARD CUBIC FEET PER MINUTE WASTE GLYCOL TEMPERATURE DROP CGR COOLING GLYCOL RETURN FXH FXHALIST GTD MEGR MANUFACTURER SD SP SMOKE DAMPER WITH COOLING GLYCOL SUPPLY ENTERING WATER TEMPERATURE STATIC PRESSURE WITHOUT MINIMUM W/0



SEQUENCE OF OPERATIONS

BOILERS B-1,2: THE BOILER SYSTEM SHALL BE CONTROLLED USING A MULTIPLE BOILER CONTROL PANEL(S) SUPPLIED WITH THE BOILERS. BOILER CONTROL PANEL SHALL MODULATE THE BOILER FIRING RATE IN PARALLEL BETWEEN 20-100% TO MAINTAIN THE SUPPLY TEMPERATURE SETPOINT. THE SYSTEM HYDRONIC LOOP TEMPERATURE SHALL BE ADJUSTABLE. INITIALLY SET TO 120 DEG F. BOILER PUMPS SUPPLIED WITH BOILER ARE POWERED FROM AND INTERLOCKED TO OPERATE WITH BOILER-1,2.

RADIANT HEAT PUMPS CP-1,2: EQUIP WITH HAND OFF AUTO SWITCH. PUMPS SHALL CYCLE ON/OFF TO MAINTAIN SPACE TEMPERATURE AS CONTROLLED BY A WALL MOUNTED 7-DAY PRÓGRAMMABLE THERMOSTAT IN ASSOCIATED RADIANT ZONE. PROVIDE COVER ON THERMOSTATS. RADIANT ZONE SETPOINT 72°F (ADJUSTABLE).

<u>AIR COMPRESSOR AC-1</u>: AIR COMPRESSOR SHALL CYCLE ON/OFF TO MAINTAIN SYSTEM PRESSURE SETOUT BY UNITED MOUNTED MANUFACTURER CONTROLS.

EXHAUST FANS EF-1,2: FANS SHALL BE SUPPLIED WITH HAND OFF AUTO SWITCH. IN AUTO MODE FANS SHALL CYCLE ON/OFF FOR DUST CONTROL. IN AUTO MODE FANS SHALL START UPON OPENING OF ANY OVERHEAD DOOR BY MEANS OF AN END SWITCH LOCATED AT DOOR ELECTRIC OPERATOR. UPON ACTIVATION OF DOOR OPEN END SWITCH THE FANS SHALL OPERATE FOR 30 MINS (ADJUSTABLE). IN HAND MODE ADJUSTABLE WALL MOUNTED TIMER SWITCH SHALL CYCLE FAN SYSTEM ON/OFF FOR MANUAL OPERATION OF FANS. LOCATE WALL MOUNTED TIMER SWITCH CONTROL WHERE INDICATED ON PLANS. INTERLOCK OUTSIDE AIR INTAKE AND EXHAUST AIR DAMPERS TO OPEN WHENEVER FAN IS ON.

UNIT HEATERS UH-1,2: THERMOSTAT SHALL CYCLE HEATER ON/OFF TO MAINTAIN ROOM SETPOINT 68'F (ADJUSTABLE). UNIT HEATER FAN AND INDIRECT FIRED HEATER SHALL BE SEQUENCED BY UNIT MOUNTED CONTROLS.

PROPELLER FAN PF-1,2: PROPELLER FANS SHALL BE MANUALLY CONTROLLED BY WALL MOUNTED VARIABLE SPEED CONTROLLER PROVIDED WITH FANS. PROVIDE ADDITIONAL WALL MOUNTED SWITCH FOR FAN SYSTEM ON/OFF OPERATION WHERE INDICATED ON



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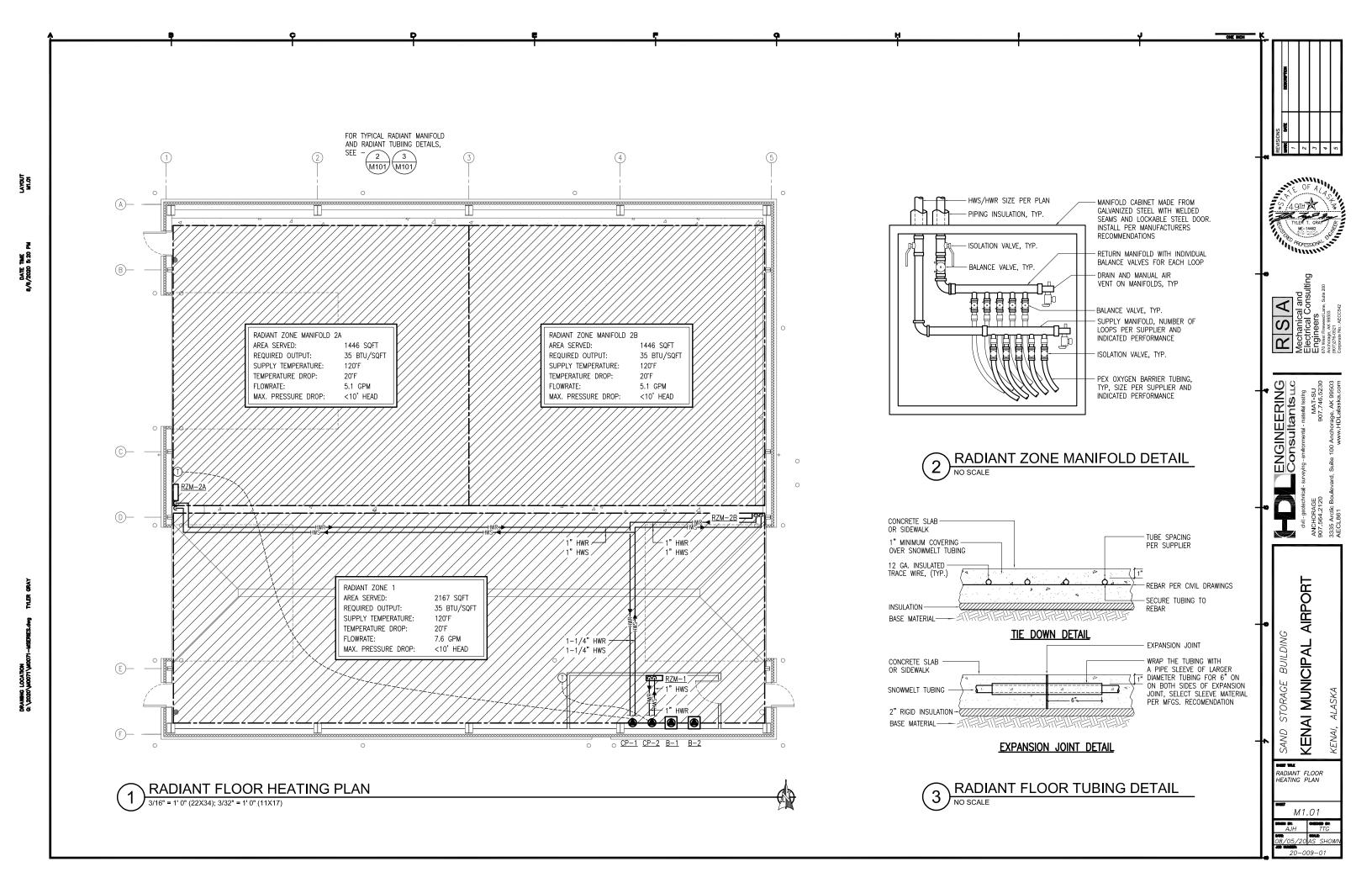
AIRPORT BUILDING

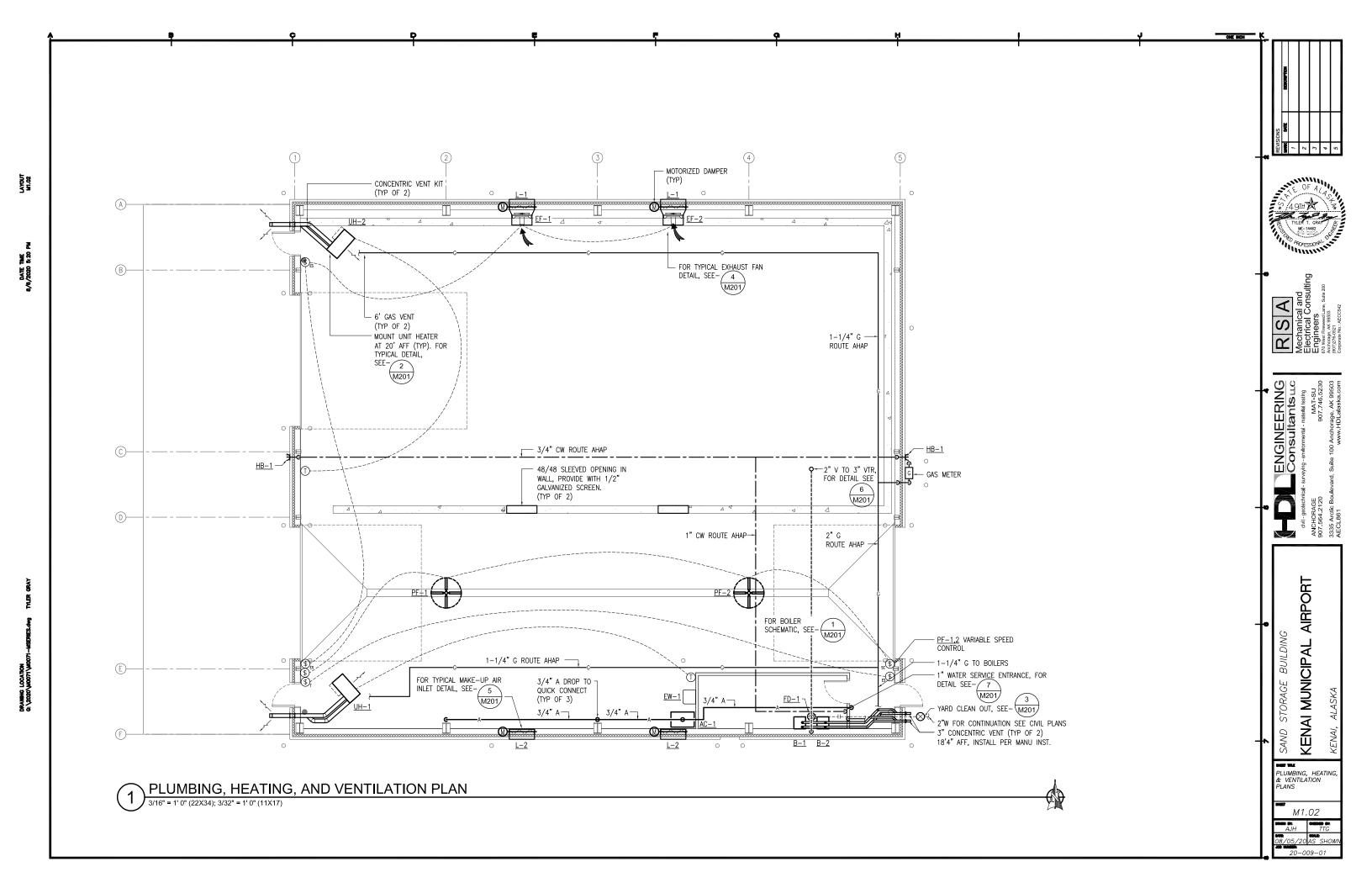
KENAI MUNICIPAL

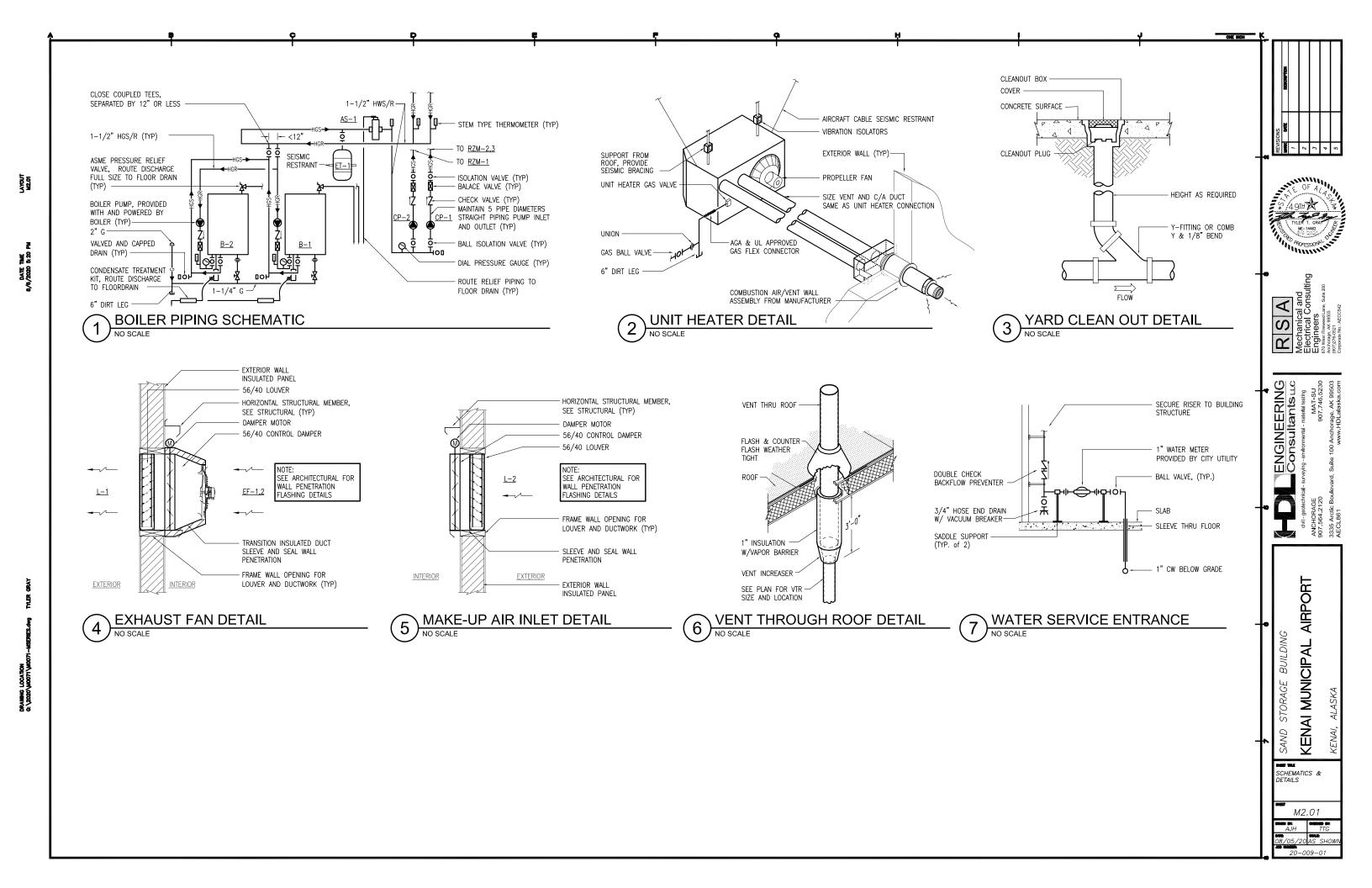
MALE TRANS

MECHANICAL SCHEDULES

M0.02



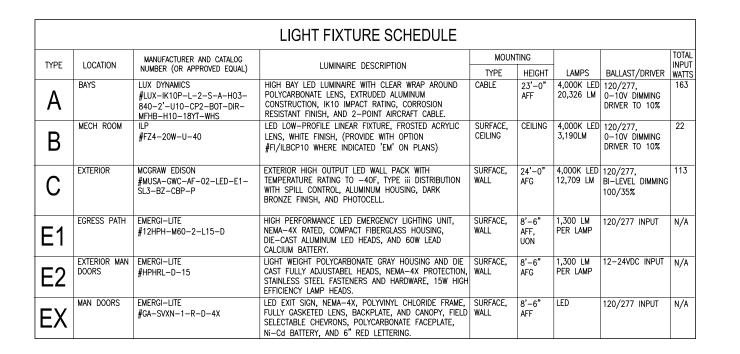


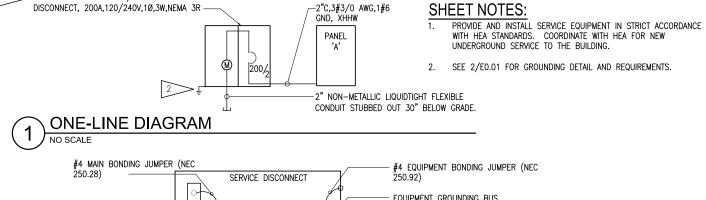


	LE	GEND	
0	ROUND LIGHT FIXTURE - PENDANT OR SURFACE MTD CLG	6	MOTOR (SIZED AS NOTED)
Ю	LIGHT FIXTURE - SURFACE MTD ON WALL	\$ _T	FRACTIONAL HORSEPOWER MOTOR STARTER
•	EMERGENCY EXIT LIGHT - SURFACE MTD CLG	Ъ	DISCONNECT SWITCH
H	EMERGENCY EXIT LIGHT - SURFACE MTD WALL	B	COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER
4	EMERGENCY LIGHT	∰	DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
	LINEAR LIGHT FIXTURE - PENDANT MTD		NOTE TAG (No. INDICATES NOTE)
——	STRIPLIGHT - PENDANT OR SURFACE MTD CLG	AFF	ABOVE FINISHED FLOOR
A	FIXTURE TAG (LETTER INDICATES TYPE)	AFG	ABOVE FINISHED GRADE
\$	SINGLE POLE SWITCH	С	CONDUIT
\$.	SINGLE POLE SWITCH (LOWERCASE LETTER INDICATES SWITCHING)	E	DENOTES EXISTING ITEM
\$3,\$4	THREE WAY SWITCH, FOUR WAY SWITCH	EM	DENOTES EMERGENCY POWER
\$os	OCCUPANCY SENSOR WALL SWITCH (DUALTECH)	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	CONDUIT, CONCEALED	GRSC	GALVANIZED RIGID STEEL CONDUIT
#10	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)	К	KELVIN
A-2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	LED	LIGHT EMITTING DIODE
—UE—	UNDERGROUND ELECTRICAL CONDUCTORS	LM	LUMENS
	HEAT TRACE WIRES	MCB	MAIN CIRCUIT BREAKER
>	PANEL	MLO	MAIN LUGS ONLY
Ф	DUPLEX RECEPTACLE	NEC	NATIONAL ELECTRICAL CODE
48	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER	NTS	NOT TO SCALE
•	SPECIAL PURPOSE OUTLET	TYP	TYPICAL
0	JUNCTION BOX	UON	UNLESS OTHERWISE NOTED

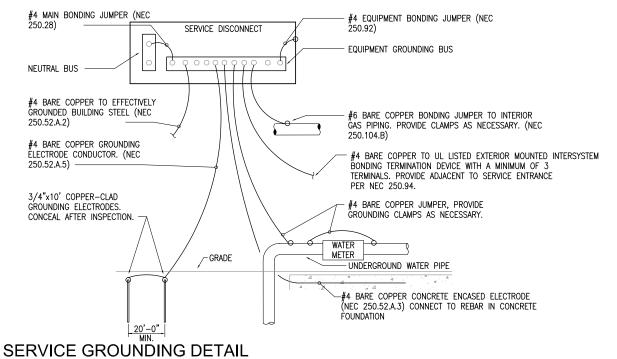
ELECTRICAL LOAD CALCULATION	
LIGHTING LOAD	
FIXTURE TYPE 'A'	2,608 VA
FIXTURE TYPE 'B'	66 VA
FIXTURE TYPE 'C'	452 VA
125% TOTAL LIGHTING LOAD	3,908 VA
MOTOR AND EQUIPMENT LOADS	
B-1,2 (2 @ 15A,120V)	3,600 VA
EF-1,2 (2 @ 0.5HP,120V)	2,352 VA
PF-1,2 (2 @ 86VA)	172 VA
UH-1,2 (2 @ 1/3HP,120V)	1,728 VA
CP-1,2 (2 @ 0.75HP,120V)	3,312 VA
DRIVE BAY OH DOOR OPERATORS (2 @ 0.75HP,120V)	3,312 VA
SAND BAY OH DOOR OPERATOR (1 @ 1.5HP,240V)	2,400 VA
AIR COMPRESSOR (1 @ 7.5HP,240V)	9,600 VA
GATE OPERATOR (1 @ 26A,120V)	3,120 VA
YARD CLEAN OUT HEAT TRACE	1,080 VA
25% LARGEST MOTOR (AIR COMPRESSOR)	2,400 VA
GATE CONTROLS (ESTIMATED)	1,100 VA
TOTAL THIS SECTION	34,176 VA
RECEPTACLE LOADS	
RECEPTACLE LOAD (NEC TABLE 220,44)	
RECEPTACLES AT 180VA: 11	1,980 VA
NET COMPUTED DEMAND LOAD:	40,064 VA
MINIMUM FEEDER/SERVICE SIZE FOR 120/240 V, SINGLE PHASE	SERVICE:
40,064 VA / 240V= 166.9 A	

SHORT CIRCUIT CALCU	LATION	<u>I SUMMARY</u>
FAULT ANALYSIS WAS PERFORMED UTHE FOLLOWING ARE THE UTILITY COI		
AVAILABLE FAULT CURRENT AT UTILITY XFMR UTILITY TRANSFORMER SIZE: UTILITY TRANSFORMER IMPEDENCE: SERVICE LATERAL # PARALLEL RUNS SERVICE LATERAL SIZE: SERVICE LATERAL LENGTH: SERVICE LATERAL CONDUIT TYPE: TOTAL MOTOR CONTRIBUTIONS:	50 3.00	US KVA % EA. KCMIL FEET
AVAILABLE FAULT CURRENT AT MDP: NOTE: VERIFY THE ABOVE TRANSFOR LATERAL SIZE/TYPE WITH LOCAL UTIL ADJUST EQUIPMENT SHORT CIRCUIT R EQUIPMENT INSTALLED BY UTILITY.	RMER RATIN	IGS AND SERVICE TO ORDERING EQUIPMENT.





NEW COMBINATION METER/SERVICE







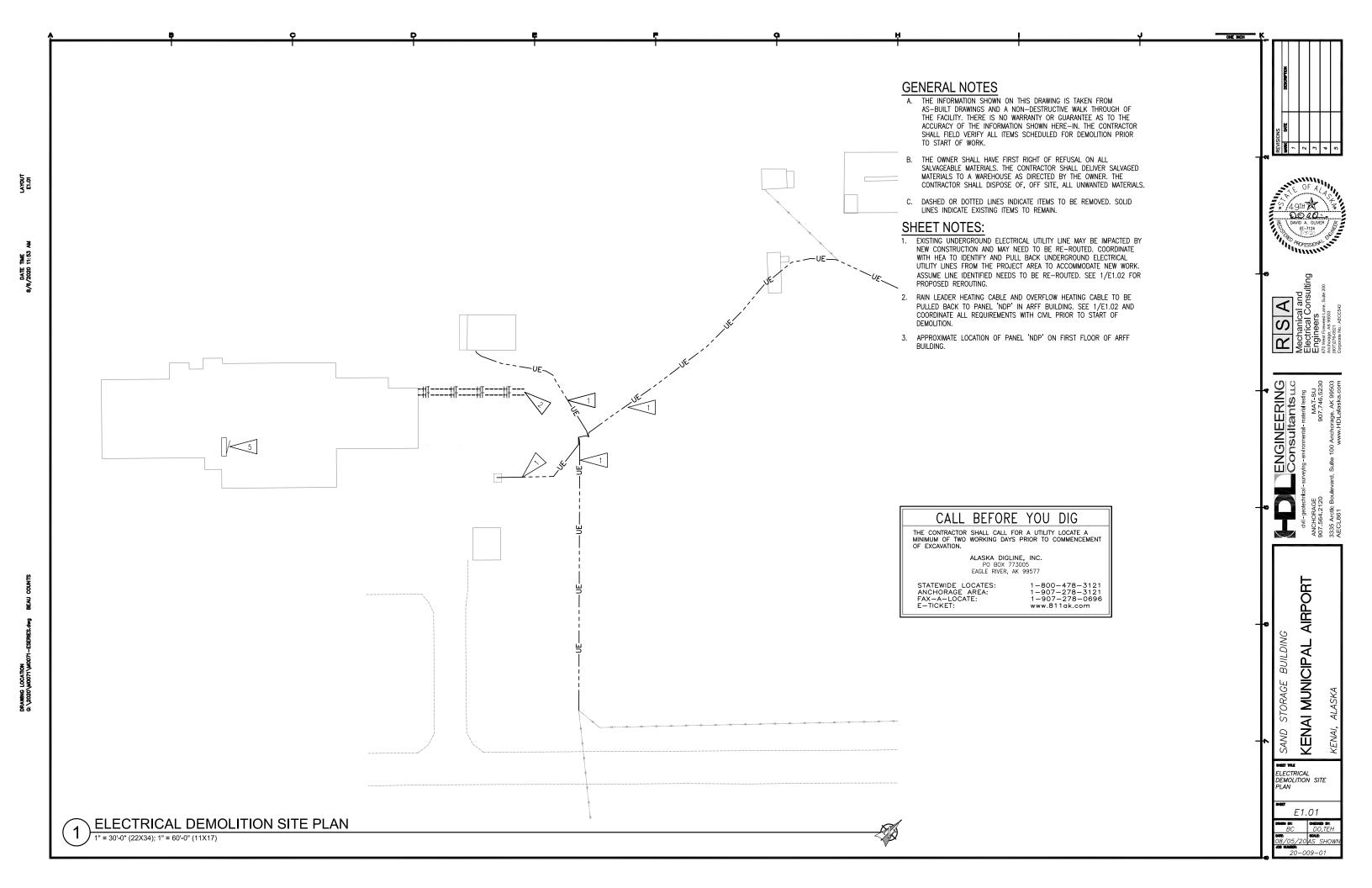
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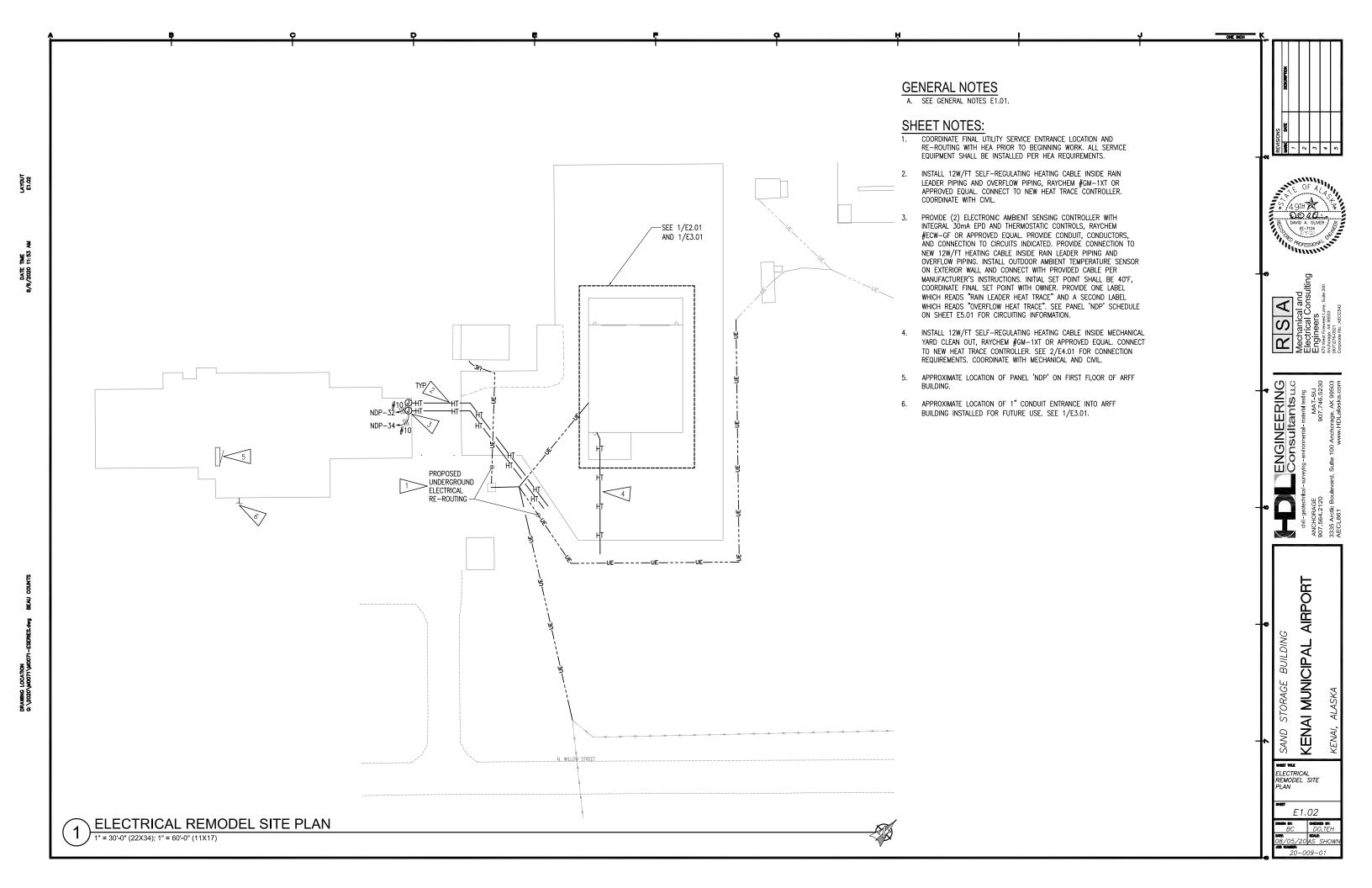
AIRPORT BUILDING KENAI MUNICIPAL

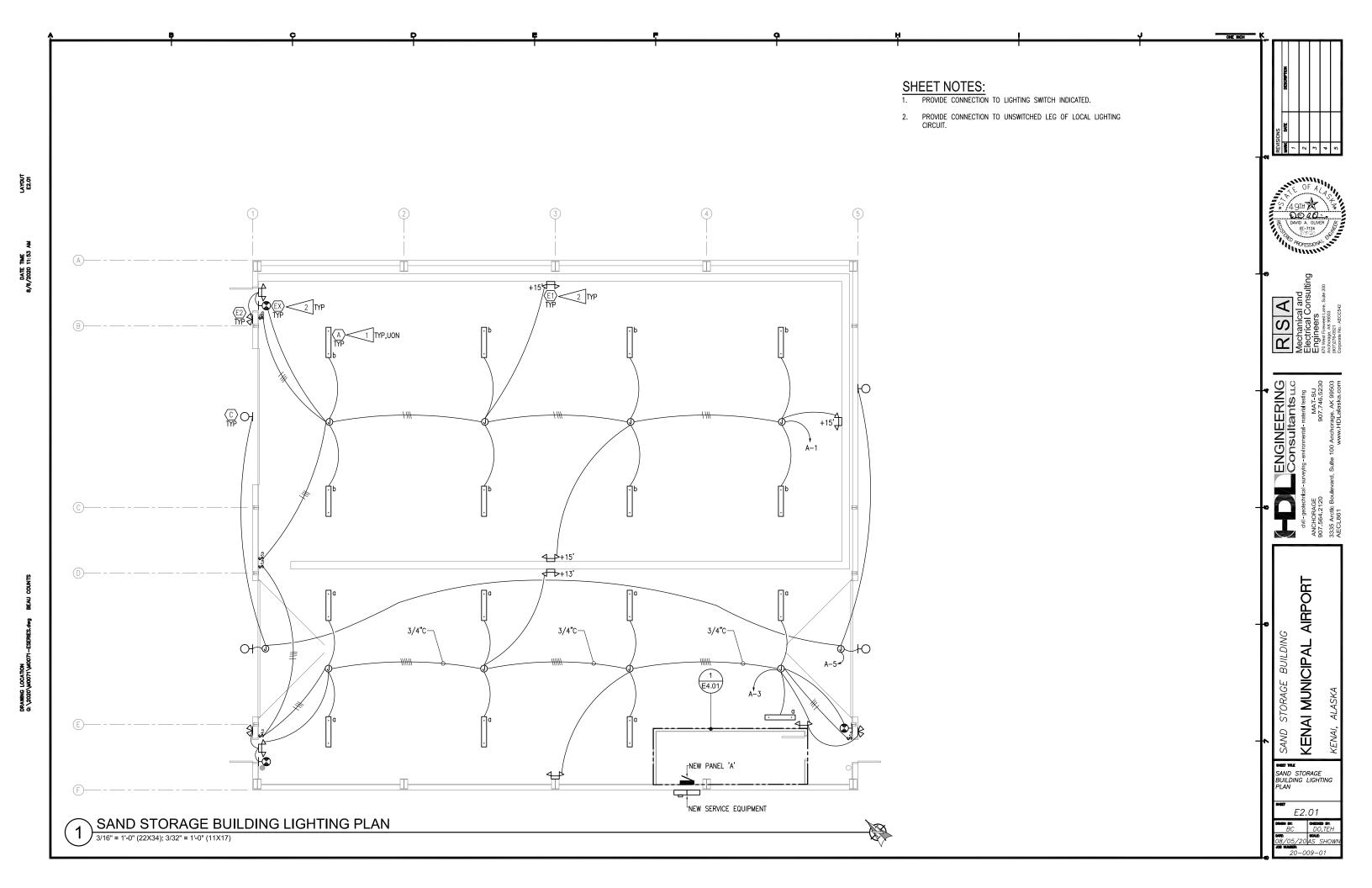
SAND

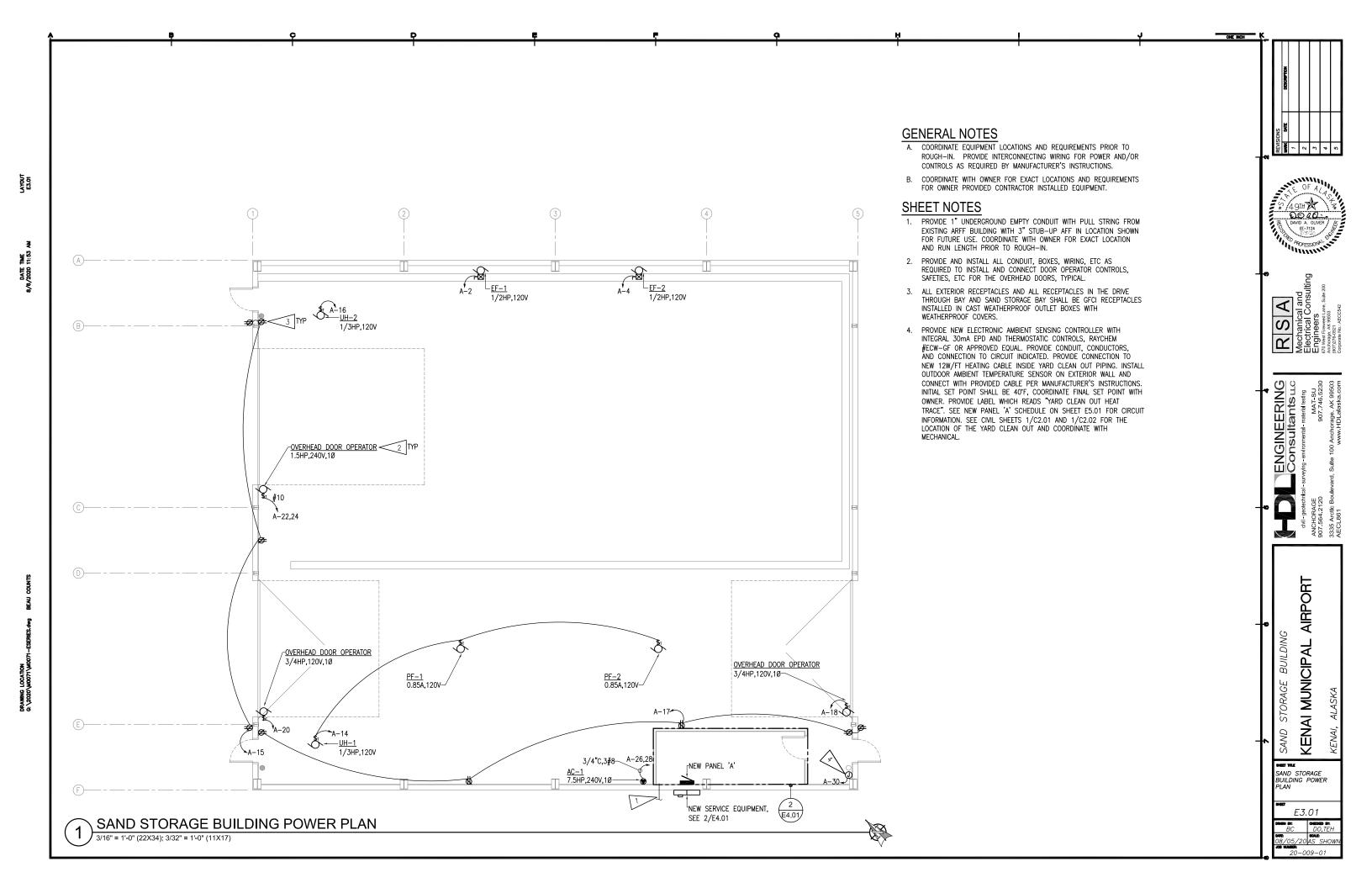
LEGEND, ONE-LINE, FIXTURE SCHEDULE, CALCULATIONS, AND DETAILS

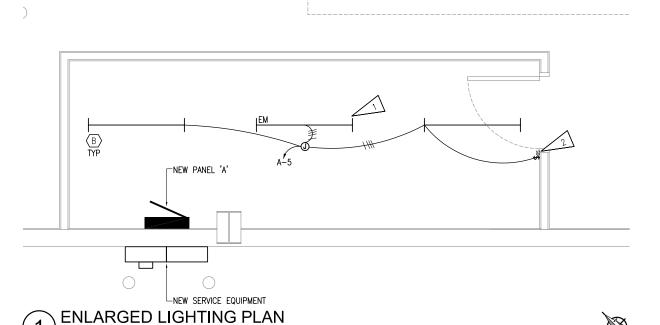
E0.01



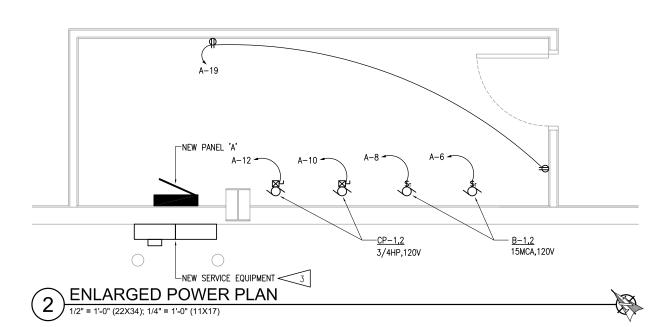






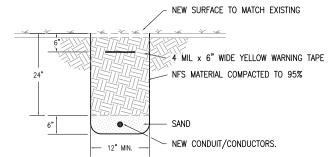


1/2" = 1'-0" (22X34); 1/4" = 1'-0" (11X17)



SHEET NOTES:

- FIXTURE WITH BATTERY BACKUP. PROVIDE CONNECTION TO LIGHTING CIRCUIT INDICATED AND PROVIDE CONNECTION TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT FOR THE BATTERY.
- 2. SWITCH WITH INTEGRAL OCCUPANCY SENSOR.
- 3. SEE DETAILS A7/A4.04 AND E7/A4.04 FOR MOUNTING OF SERVICE ENTRANCE EQUIPMENT. EQUIPMENT SHALL BE MOUNTED IN ACCORDANCE WITH HOMER ELECTRIC ASSOCIATION REQUIREMENTS. INSTALL BUTYL TAPE SEALANT WHERE SERVICE ENTRANCE SUPPORT FASTENERS PENETRATE WALL PANEL. USE EXPANDING FOAM SEALANT TO SEAL WALL PENETRATION AROUND CONDUIT ENTRY. SEE ONE—LINE DIAGRAM 1/E0.01



TRENCHING DETAIL

NTS





RSA Bechanical and lectrical Consulting ngineers Wower Irrevace Lane, Sulte 200 phonage, AK 99903

ERING
Ants LC
Med
MAT-SU
Eng
O7.746.5230
Anthory

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e/ing - environmental - material testing
MAT-SU
907.746.5232

condition of the condit

BUILDING CIPAL AIRPORT

SAND STORAGE BUILDIN KENAI MUNICIPAL

ENLARGED
ELECTRICAL PLANS
AND DETAILS

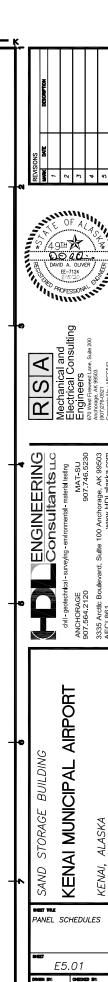
E4.01

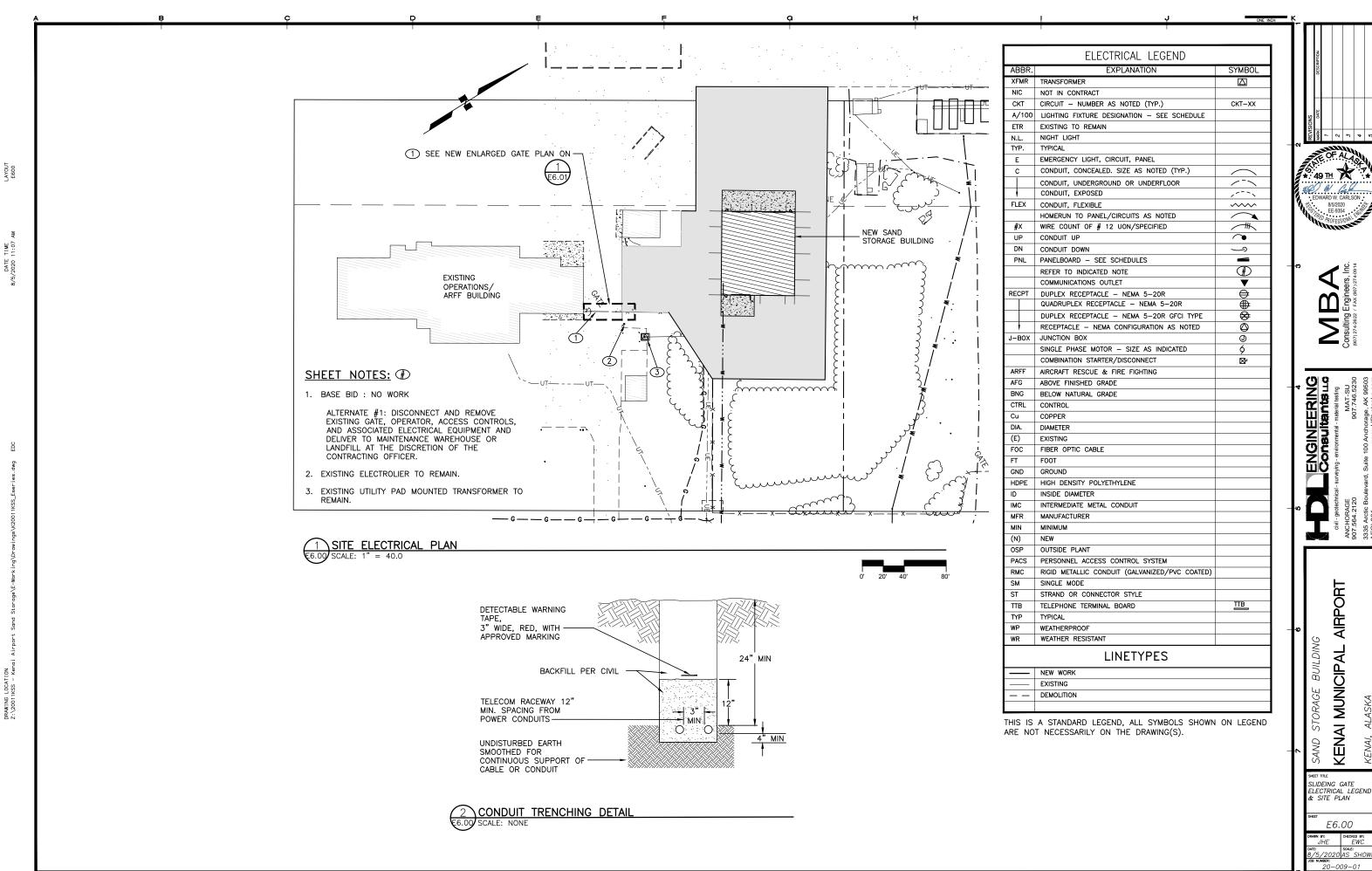
N	IFR	/MO	DEL:	SIEMENS TYPE PRL1A	VOLTS:	120/240V,			ENCL	OSURE:	NEMA 1		225	Α	
			YPE:	PANELBOARD			VOLT-	AMPS		MTG:	SURFACE				
NOTE	כוצר ב	POLE	AMPS	SERVICE	TYPE	Α		В	1	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
	1	1	20	LTS - SAND BAY	LTG	1,304	1,176			MOTR		20	1	2	
	3	1	20	LTS - DRIVE BAY, MECH ROOM	LTG			1,370	1,176	MOTR	EF-2	20	1	4	
	5	1	20	LTS - EXTERIOR	LTG	452	1,800			MOTR	BOILER 1	30	1	6	
	7	1	20	SPARE					1,800	MOTR	BOILER 2	30	1	8	
	9	1	20	SPARE			1,656			MOTR	CP-1	25	1	10	
1	1	1	20	SPARE					1,656	MOTR	CP-2	25	1	12	
	3	1	20	SPARE			1,036			MOTR	UH-1, PF-1,2	20	1	14	
1	5	1	20	RECEP - SAND BAY, EXT W.	RECP			720	864	MOTR	UH-2	15	1	16	
1	7	1	20	RECEP - DRIVE BAY, EXT E.	RECP	900	1,656			MOTR	O/H DOOR - DRIVE BAY EAST	25	1	18	
1	9	1	20	RECEP - MECH ROOM	RECP			360	1,656	MOTR	O/H DOOR - DRIVE BAY WEST	25	1	20	
2	21	1	-	SPACE			1,200			MOTR	O/H DOOR - SAND BAY	20	2	22	
2	23	1	-	SPACE					1,200	MOTR	^^	20	2	24	
2	25	1	-	SPACE			4,800			MOTR	AIR COMPRESSOR	80	2	26	
2	27	1	-	SPACE					4,800	MOTR	^^	80	2	28	
2	29	1	-	SPACE			1,080			HEAT	BOILER CLEAN OUT HT. TRACE	20	1	30	а
3	31	1	-	SPACE					3,120	MOTR	GATE OPERATOR	35	1	32	
3	33	1	-	SPACE			1,100			SPEC	GATE CONTROLS	20	1	34	
3	35	1	-	SPACE							SPARE	20	1	36	
3	37	1	-	SPACE							SPARE	20	1	38	
3	9	1	-	SPACE							SPACE	-	1	40	
4	1	1	-	SPACE							SPACE	-	1	42	
				TOTAL V-A			18,160		18,722		36,882	VA			
				TOTAL AMPS			151		156		154	Α			
				A.I.C. RATING: 10,000											
					LTG	RECP	MOTR	LG.MT	HEAT	SPEC	TOTAL	A	AMPS	S	
	(CON	NEC	TED LOAD IN KVA (THIS PANEL):	3.13	1.98	29.60	2.40	1.08	1.10	36.9 KVA		158	Α	
				DEMAND LOAD IN KVA:	3.91	1.98	29.60	2.40	1.08	1.10	40.1 KVA		167	Α	
PANE a C				AKER SHALL BE CAPABLE OF BE	EING LOC	CKED IN TH	HE OPEN I	POSITION.			<u>OPTIONS:</u> LUGS ONLY				

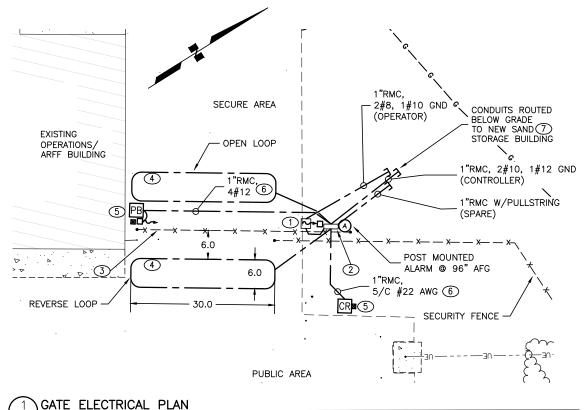
MFR/MODEL: SIEMENS TYPE 'S1'									SURE:	400 A						
							VOLT-	AMPS			MTG:	SURFACE				_
ا إل	щ	S											S	Щ	O	벁
CIRC	POLE	AMPS	SERVICE	TYPE	/	۱ ۱	E	3		- I	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
1	1		RECPT TIRE CHANGE 115	RECP	800	800					MOTR	TRANSFER PUMP	20	2	2	а
3	1	20	RECPT BENCH AREA 117	RECP			400	800			MOTR	^^	20	2	4	а
a 5	1	20	RECPT BENCH AREA 117	RECP					400			SPACE	-	1	6	T
a 7	1	20	RECPT BENCH AREA 118	RECP	400							SPACE	-	1	8	T
9	1	20	RECPT EQT STG 120 S.	RECP			1000				MOTR	HOIST EQT STG 120	15	3	10	b
11	1	20	RECPT EQT STG 120 CT	RECP					800		MOTR	۸۸۸	15	3	12	b
13	1		RECPT EQT STG 120 N.	RECP	400						MOTR	۸۸۸	15	3	14	
15	1	20	RECPT EQT STG 120 N.	RECP			600					SPACE	-	1	16	Т
17	1	20	RECPT WASH 121,SAND 122	RECP					600	700	HEAT	ROOF DRAIN HEAT CABLE	20	1	18	а
19	1	20	RECPT MECH 119	RECP	400	750					LTG	POLE MTD LTS	20	2	20	1
21	1	20	LTS STG 204, 205, & 206	LTG			1400	750			LTG	^^	20	2	22	1
23	1	20	LTS MECH 119,EQPT 120	LTG					800	1500	SPEC	WASHER - TIRE 115	20	1	24	a
25	1	20	LTS TIRE 116,BENCH 117	LTG	800	500					SPEC	GAS DRYER - TIRE 115	20	1	26	6
27	1	20	LTS EXTERIOR NE	LTG			1800					UNKNOWN	20	1	28	ŀ
29	1	20	LTS EXTERIOR NW	LTG					1800			SPARE	20	1	30	Г
31	1	20	LTS EQT STG 120	LTG	1200	1560					HEAT	HEAT CABLE OUT FALL	30	1	32	Г
33	1	20	LTS EQT STG 121	LTG			1200	1560			HEAT	HEAT CABLE OUT FALL	30	1	34	Т
35	1	20	LTS EQT STG 122	LTG					1500			SPACE	-	1	36	Т
37	1	20	LTS WASH 121	LTG	1500	1800					MOTR	PRESSURE WASHER	60	3	38	a
39	1	20	LTS SAND 122	LTG			900	1800			MOTR	۸۸۸	60	3	40	a
41	1	20	CAMERA	MISC						1800	MOTR	۸۸۸	60	3	42	a
			TOTAL V-A			10910		12210		9900		33,020	VA			
			TOTAL AMPS			91		102		83		92	. A			Т
			A.I.C. RATING: 10,000													Т
				LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL	<i> </i>	AMP	S	
		TOTA	L CONNECTED LOAD IN KVA:	14.40	5.80	7.00	1.35	0.00	0.00	3.82	2.00	33.0 KVA		92	Α	
			DEMAND LOAD IN KVA:	18.00	5.80	7.00	1.35	0.00	0.00	4.78	2.00	38.9 KVA		108	Α	
ANE	NO	TES:									PANEI MAIN	OPTIONS:				

SHEET NOTES:

1. INSTALL NEW 30A, 1P CIRCUIT BREAKER IN SPACE INDICATED IN EXISTING PANEL 'NDP' IN ARFF BUILDING. CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. THE EXISTING PANEL IS A SIEMENS TYPE S1, 208Y/120V, 3Ø, 4W, 400A MAIN BREAKER/SERVICE DISCONNECT. THE NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING PANEL BOARD AND SHALL HAVE A MINIMUM SHORT CIRCUIT AIC RATING TO MATCH THE LOWEST RATED EXISTING DEVICE IN THE PANEL.







SHEET NOTES:

- NEW MOTORIZED GATE OPERATOR: 1.5HP, 120V, 10, 3W. BASIS OF DESIGN IS LIFTMASTER SL59515UL OR APPROVED EQUAL RATED 26A WITH ACCESSORY OUTLETS. PROVIDE 35A/1P BREAKER FOR CIRCUIT. SEE SPECIFICATION SECTION 32 31 13.
- 2. NEW 3x4x1FT NEMA 4X STAINLESS STEEL POST MOUNTED GATE CONTROLLER CABINET, HOFFMAN P/N A48H3612SSLP OR EQUAL. PROVIDE CONTINENTAL ACCESS SUPERTWO HID ICLASS PACKAGE CA-2PACK-I FOR INTEGRATION WITH EXISTING CA4K ACCESS CONTROLS. PROVIDE ADDITIONAL READER TO AIRPORT OPERATIONS AS SPARE. SEE DETAIL 3/E6.01.
- 3. NEW 30FT SLIDE GATE PER CIVIL.
- 4. NEW 6X32FT LOOP DETECTOR. 1" SCH 40 PVC, MIN. #18 AWG COPPER.
- 5. NEW POST MOUNTED ACCESS CONTROL DEVICE AT 4.0FT AFG.
- MANUFACTURER'S RECOMMENDED MULTI-CONDUCTOR CABLE MAY BE USED AT CONTRACTOR'S OPTION FOR LOW VOLTAGE WIRING.
- 7. SEE 2/E6.00 FOR TRENCHING DETAIL.

GATE LEGEND:

CR CARD READER

→□ PHOTO BEAM RECEIVER

PHOTO BEAM TRANSMITTER

K SECURITY KEYPAD

A) AUDIBLE/VISUAL ALARM

PB PUSH BUTTON

Engineers, Inc.

∜ 49 ⊞ 🛣

8/5/2020 EE-9354

S Consulting Engineers.

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divil - geotech civil - geotech ANCHORAGE 907.564.2120

ORAGE BUILDING MUNICIPAL AIRPORT

SELT TITLE
SLIDING GATE
PLAN AND
DETAILS

E6.01

DRAIN BY: CHECKED BY: EWC

DATE: SCALE:
8/5/2020 AS SHOW!

JOB NUMBER: 20-009-01

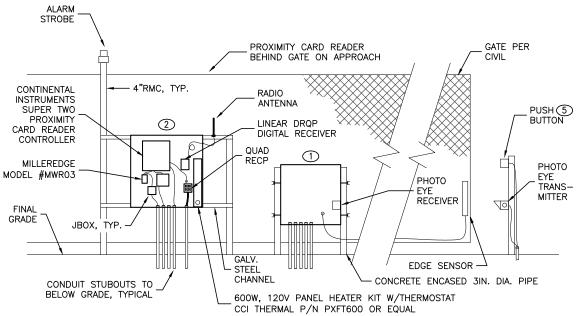
SEQUENCE OF OPERATIONS:

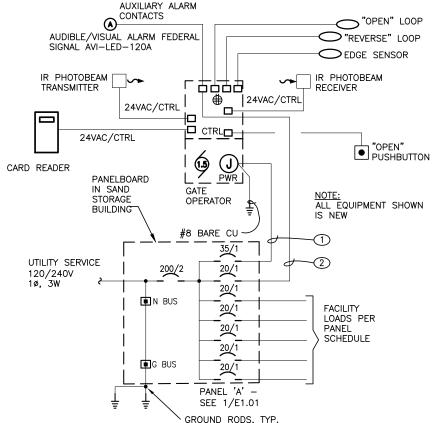
- (1) "OPEN" LOOP: GATE OPENS WHEN LOOP IS TRIGGERED AND REMAINS OPEN FOR A PRESET TIME.
- (2) "REVERSE" LOOP: IF GATE IS CLOSING, WHEN LOOP IS TRIGGERED GATE RETURNS TO OPEN POSITION.(3) PHOTOBEAM: IF GATE IS CLOSING AND

PHOTOBEAM IS BROKEN, GATE RETURNS

- TO OPEN POSITION.

 (4) PUSHBUTTON: WHEN OPERATED, GATE OPENS FOR PRESET TIME. TIMER STARTS WHEN PUSHBUTTON IS RELEASED.
- (5) CARD READER: ACTIVATION OF CARD READER OPENS GATE FOR PRESET TIME.
- (6) AUDIBLE/VISUAL ALARM ACTIVATES DURING GATE OPERATION. NOTE: VERIFY AUXILIARY CONTACT RATINGS. PROVIDE INTERPOSING RELAY AS REQUIRED.





SCALE: 1" = 10.0

GROUND RODS, TYP.

2 ONE—LINE DIAGRAM — NEW GATE

120VAC VIA

TIME. DURING MI XILIARY POSING

GATE CONTROLLER/OPERATOR ELEVATION