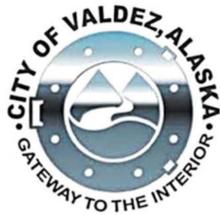


VALDEZ REGIONAL HEALTH CENTER 02 GENERATOR ADDITION

VALDEZ, ALASKA

CONSTRUCTION DOCUMENTS - DECEMBER 1, 2017



OWNER

CITY OF VALDEZ
CAPITAL FACILITIES
TEL: (907) 835-5478 EXT. 6
MOB: (325) 245-3547
FAX: (907) 835-5574
E-MAIL: CALLEN@CI.VALDEZ.AK.US
PROJECT MANAGER: CODI ALLEN

ARCHITECTURAL

Winchester Alaska Inc. INCORPORATED IN ALASKA
MAILING ADDRESS:
645 G STREET, SUITE 100, #613
ANCHORAGE, ALASKA 99501
OFFICE LOCATION:
425 G STREET, SUITE 510
ANCHORAGE, ALASKA 99501
TEL: (907) 272-4347
FAX: (907) 272-5751
E-MAIL: JWINCHESTER@WINCHESTERALASKA.COM
HTTP://WWW.WINCHESTERALASKA.COM
PROJECT MANAGER: JERRY WINCHESTER

STRUCTURAL

OIEN ASSOCIATES, INC.
16922 HANSON DRIVE
EAGLE RIVER, ALASKA 99577
TEL: (907) 694-0507
FAX: (907) 694-0508
E-MAIL: BOIEN@ALASKA.NET
PROJECT MANAGER: BEN OIEN

MECHANICAL

JERNSTROM ENGINEERING, LLC
6921 OLD SEWARD HWY., SUITE 202
ANCHORAGE, AK 99518
TEL: (907) 522-1042
FAX: (907) 522-1052
E-MAIL: RJERNSTROM@JERNSTROMENGINEERING.COM
PROJECT MANAGER: BOB JERNSTROM

ELECTRICAL

P.E. COMPANY
14440 CANYON ROAD
ANCHORAGE, ALASKA
TEL: (907) 278-8029
E-MAIL: TDH.PECO@GMAIL.COM
PROJECT MANAGER: TOM HUMPHREY

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A2.02 PARTIAL FLOOR PLAN - NEW WORK
A3.01 PARTIAL REFLECTED CEILING PLAN - DEMO & NEW WORK
A4.01 PARTIAL ROOF PLAN - DEMO & NEW WORK
A8.01 EXTERIOR ELEVATIONS - DEMO & NEW WORK
A9.01 BUILDING SECTIONS
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M1.1 SPECIFICATIONS
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M2.02 PARTIAL FLOOR PLAN - HVAC - DEMOLITION
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JWINCHESTER@WINCHESTERALASKA.COM
WWW.WINCHESTERALASKA.COM
CORPORATE LICENSE # 6283



**VALDEZ REGIONAL
HEALTH CENTER
02 GENERATOR ADDITION**
VALDEZ, ALASKA

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| DRAWN DTC | DATE 12/1/2017 |
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SHEET CONTENTS

COVER SHEET &
DRAWING INDEX

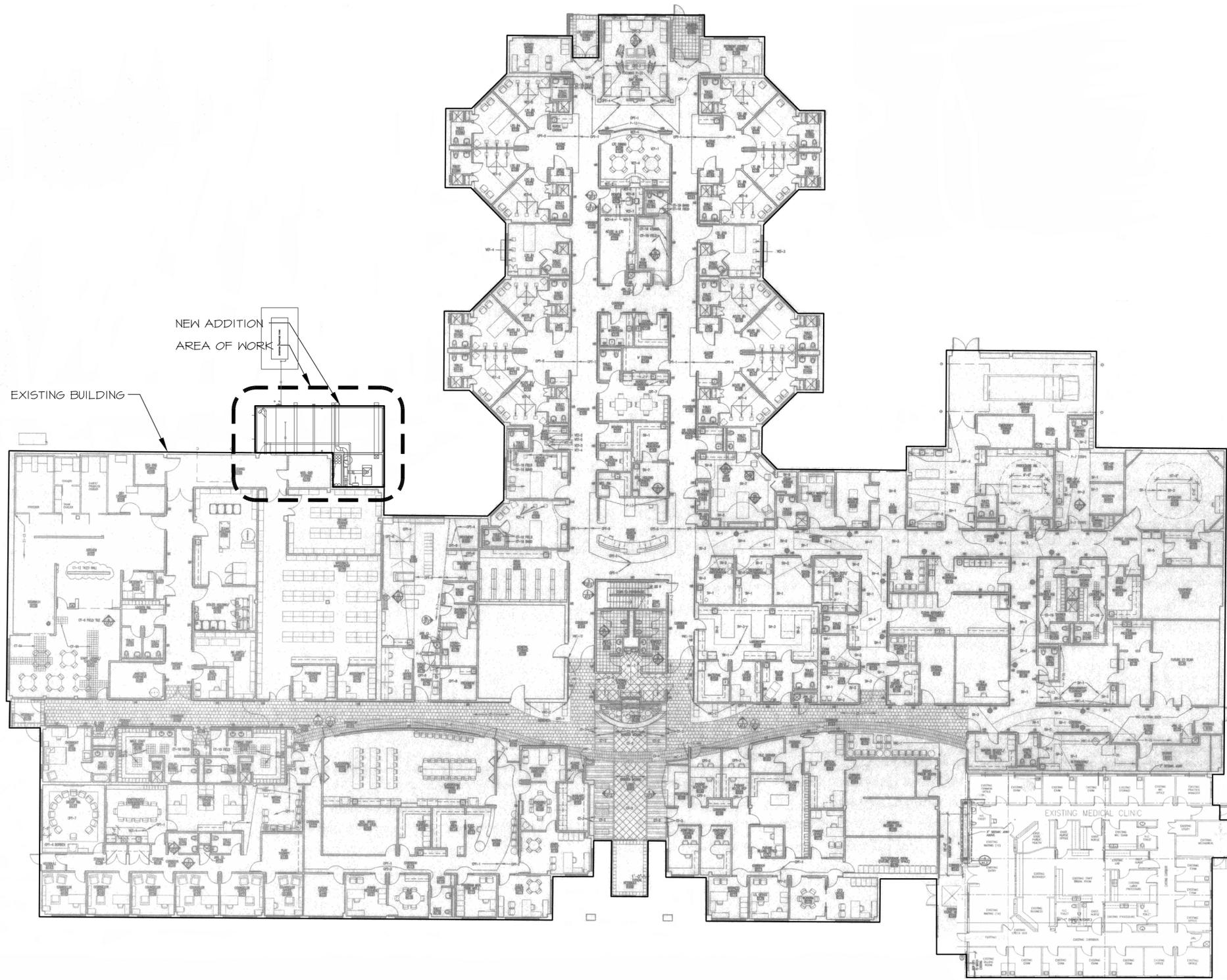
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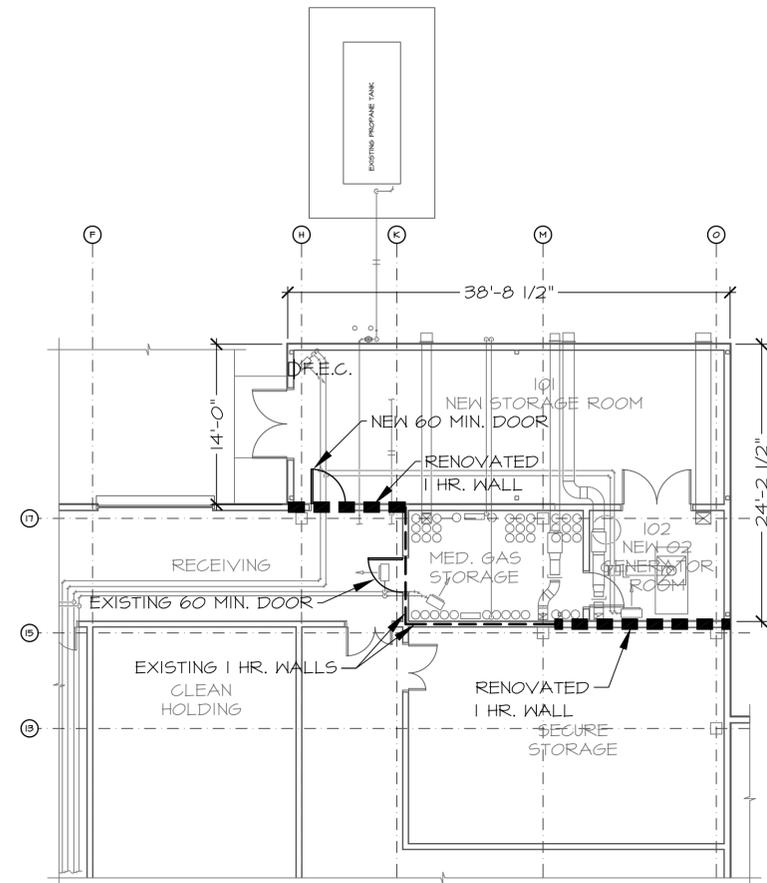
NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



 **CODE PLAN - EXISTING BUILDING**
NTS



**CODE PLAN -
ADDITION TO EXISTING BUILDING**

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

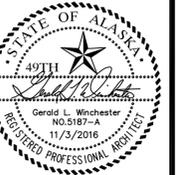

CODE INFORMATION

- INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION
- BUILDING TYPE I-B (SPRINKLERED)
 - OCCUPANCY GROUP I-2
 - ALLOWABLE SF. = UNLIMITED
 - EXISTING BUILDING S.F. = 61,443 S.F.
 - NEW ADDITION S.F. = 699 S.F.
 - TOTAL BUILDING SF. = 62,142 SF. < ALLOWABLE



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 E-MAIL: CALL@CITYOFVALDEZ.AK.US
 PROJECT MANAGER: CODY ALLEN

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 JWINCHESTER@WINCHESTERALASKA.COM WWW.WINCHESTERALASKA.COM
 CORPORATE LICENSE # C083



**VALDEZ REGIONAL
HEALTH CENTER
O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

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| CHECKED G.L.W. | JOB NO. 170302 |

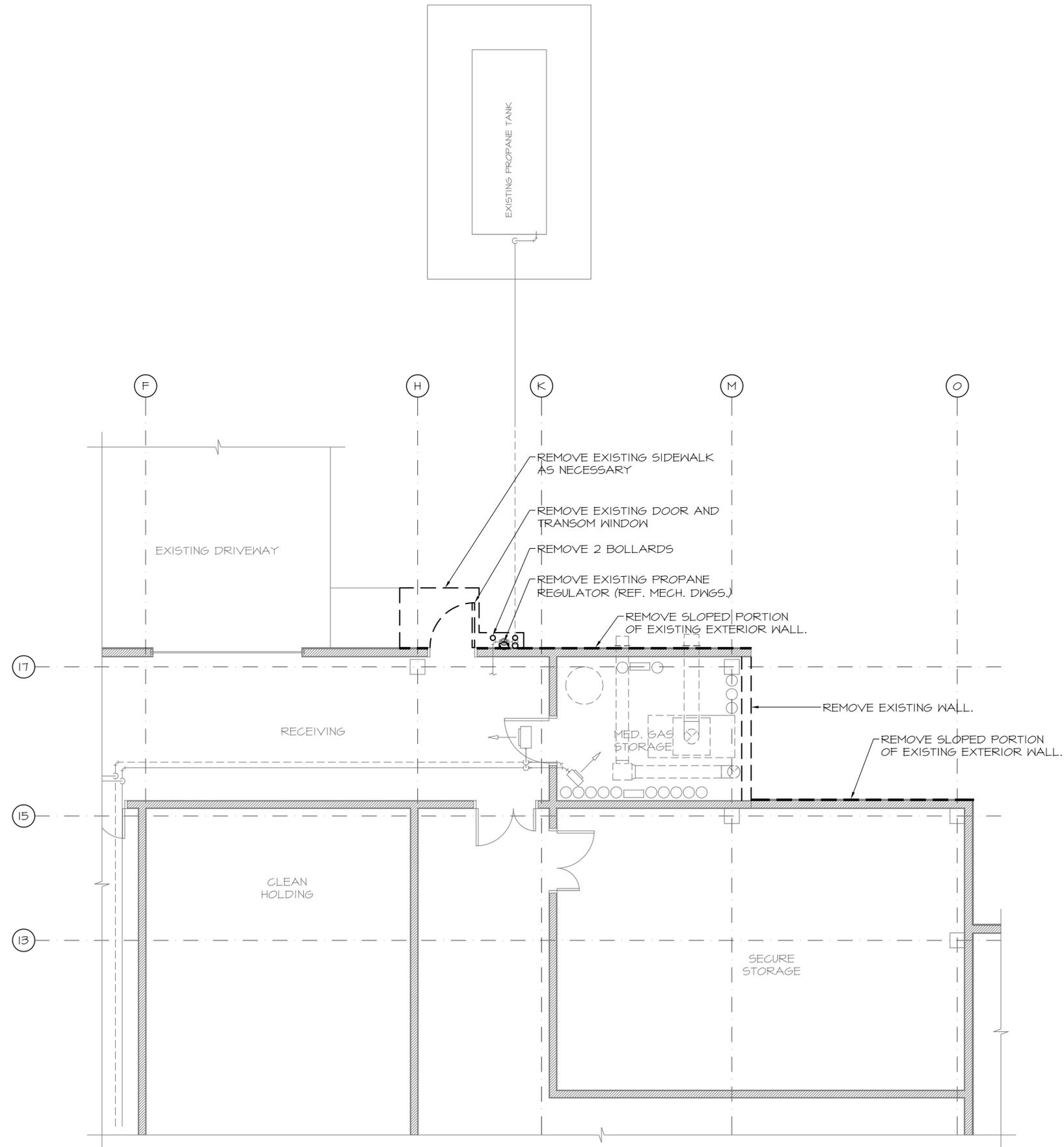
SHEET CONTENTS

CODE PLAN & INFORMATION

DRAWING NO.
GO.01

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

PARTIAL FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"
0' 1' 2' 4' 8'



**VALDEZ REGIONAL HEALTH CENTER
 O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

| | |
|-------------------|-------------------|
| DRAWN DTC | DATE 12/1/2017 |
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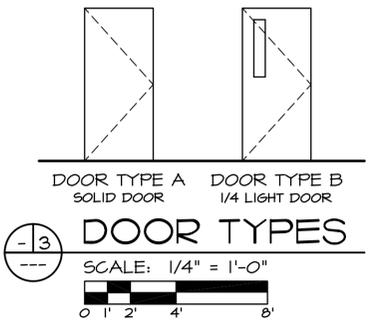
SHEET CONTENTS

 PARTIAL FLOOR PLAN - DEMO

DRAWING NO.
A2.01

2. DOOR SCHEDULE

| ROOM NUMBER & NAME | | DOOR | | | | | | | FRAME | | OTHER | | | HARDWARE | | | | | | | | | |
|--------------------|--------------------|--------|----------|-------|------|-------------|---------|-------------|---------|----------------|---------|--------|--------|----------|-----------|-------|---------|-----------|------------|------------|-----------|--|--|
| NUMBER | NAME | NUMBER | WIDTH | HT | TYPE | MAT | HANDING | TYPE | RATING | WALL THICKNESS | REMARKS | HINGES | CLOSER | W-STRIP | THRESHOLD | SWEEP | LOCKSET | SILENCERS | SMOKE SEAL | KICK PLATE | DOOR STOP | | |
| 101a | NEW STORAGE ROOM | 101a | 3'-0" | 6'-8" | B | MTL. | LH | TIMELY | 60 MIN. | | | | | | | | | | | | | | |
| 101b | NEW STORAGE ROOM | 101b | (2)3'-0" | 6'-8" | B | INS. H.M.D. | LHR/RHR | INS. H.M.F. | N.R. | | | | | | | | | | | | | | |
| 102a | NEW GENERATOR ROOM | 102a | (2)3'-0" | 6'-8" | A | MTL. | LH/RH | TIMELY | N.R. | | | | | | | | | | | | | | |
| 102b | NEW GENERATOR ROOM | 102b | 3'-0" | 6'-8" | A | MTL. | RH | TIMELY | N.R. | | | | | | | | | | | | | | |

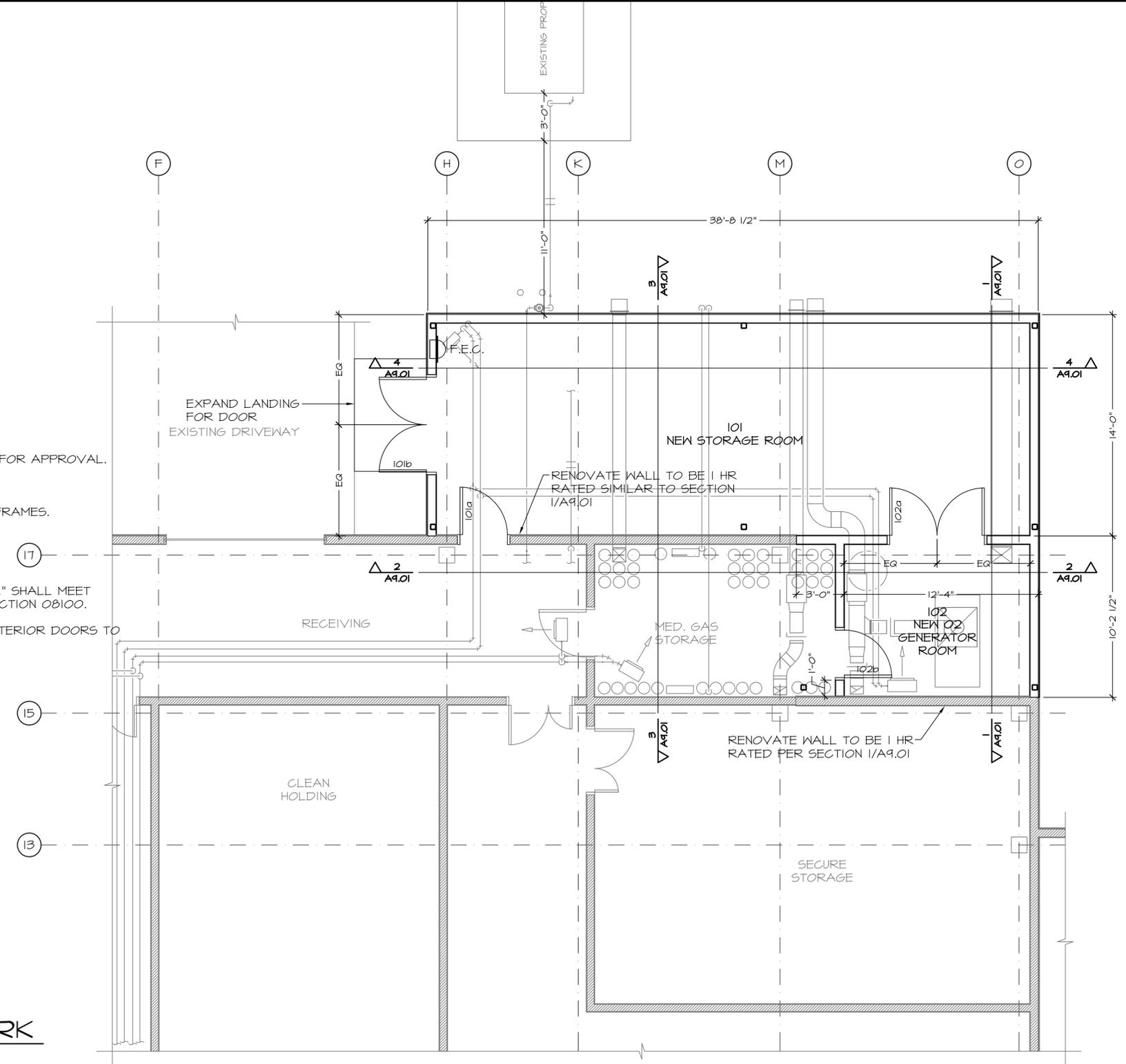


DOOR & FRAME NOTES

- GLAZING IS RATED THE SAME AS DOOR IN WHICH IT IS LOCATED.
- ALL GLAZING FOR EXTERIOR DOORS TO BE INSULATED GLAZING.
- ALL GLAZING IN DOORS ARE TO BE SAFETY GLAZING.
- HARDWARE GROUPS TO BE SUBMITTED TO CONTRACTING OFFICER FOR APPROVAL.
- REFERENCE SPEC. SECTION 08800 FOR GLASS & GLAZING.
- REFERENCE SPEC. SECTION 08100 FOR HOLLOW STEEL DOORS & FRAMES.
- REFERENCE SPEC. SECTION 08110 FOR INTERIOR STEEL FRAMES.
- REFERENCE SPEC. SECTION 08710 FOR FINISH HARDWARE.
- EXTERIOR DOORS AND FRAMES SCHEDULED AS "EXT. INSUL. METAL" SHALL MEET SPECIFIC REQUIREMENTS FOR THERMAL INSULATION. SEE SPEC. SECTION 08100.
- PROVIDE KEYPADS AND LARGE MAGNETIC LOCKS ON ALL NEW EXTERIOR DOORS TO MATCH EXISTING

FLOOR PLAN NOTES

- ALL DIMENSIONS ARE TO FACE OF STUDS & CENTER LINE OF OPENINGS, UNLESS OTHERWISE NOTED.



NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



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 PROJECT MANAGER: CODY ALLEN

Winchester Alaska Inc. - Architects & Interiors
 425 G STREET, SUITE 910, ANCHORAGE, ALASKA 99501
 WWW.WINCHESTERALASKA.COM
 CORPORATE LICENSE # 2083



VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
 VALDEZ, ALASKA

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SHEET CONTENTS
 PARTIAL REFLECTED CEILING PLAN - DEMO & NEW WORK

DRAWING NO.
A3.01

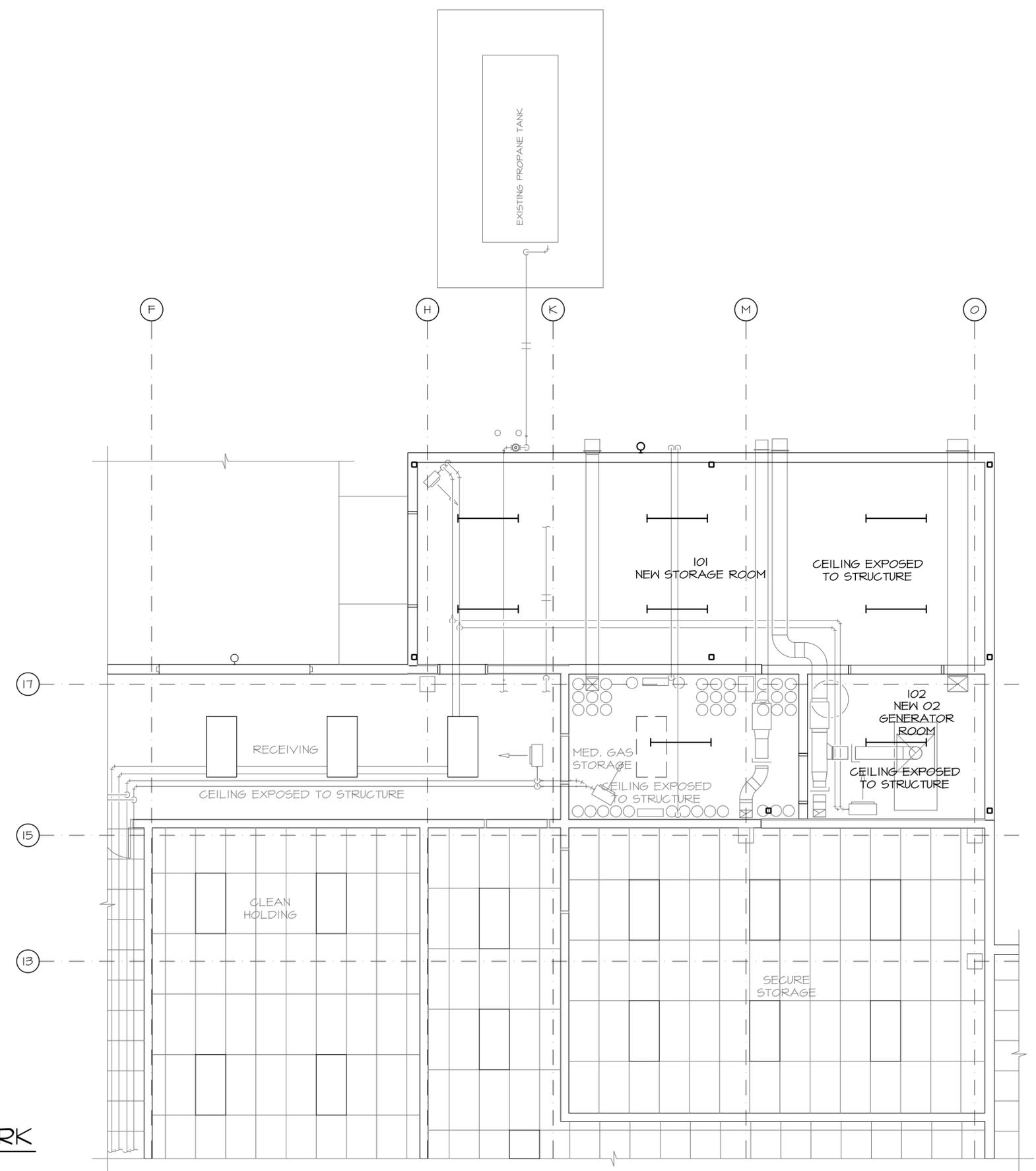
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RCP LEGEND

- EXISTING 2X4 SUSPENDED ACOUSTICAL CEILING TILES
- DEMO'D LIGHTING FIXTURE
- EXISTING LIGHTING FIXTURES
- NEW LIGHTING FIXTURES (REF. ELECT. DWGS)

RCP NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR ALL SIZE & TYPES OF LIGHTINGS. COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION OF LIGHTINGS.
2. REFERENCE MECHANICAL DRAWINGS FOR ALL SIZE & TYPES OF DIFFUSERS AND EXHAUST FANS. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION OF DIFFUSERS AND EXHAUST FANS.
3. ALL ROOMS WITH NO CEILING TILE SHOWN ARE OPEN TO STRUCTURE ABOVE



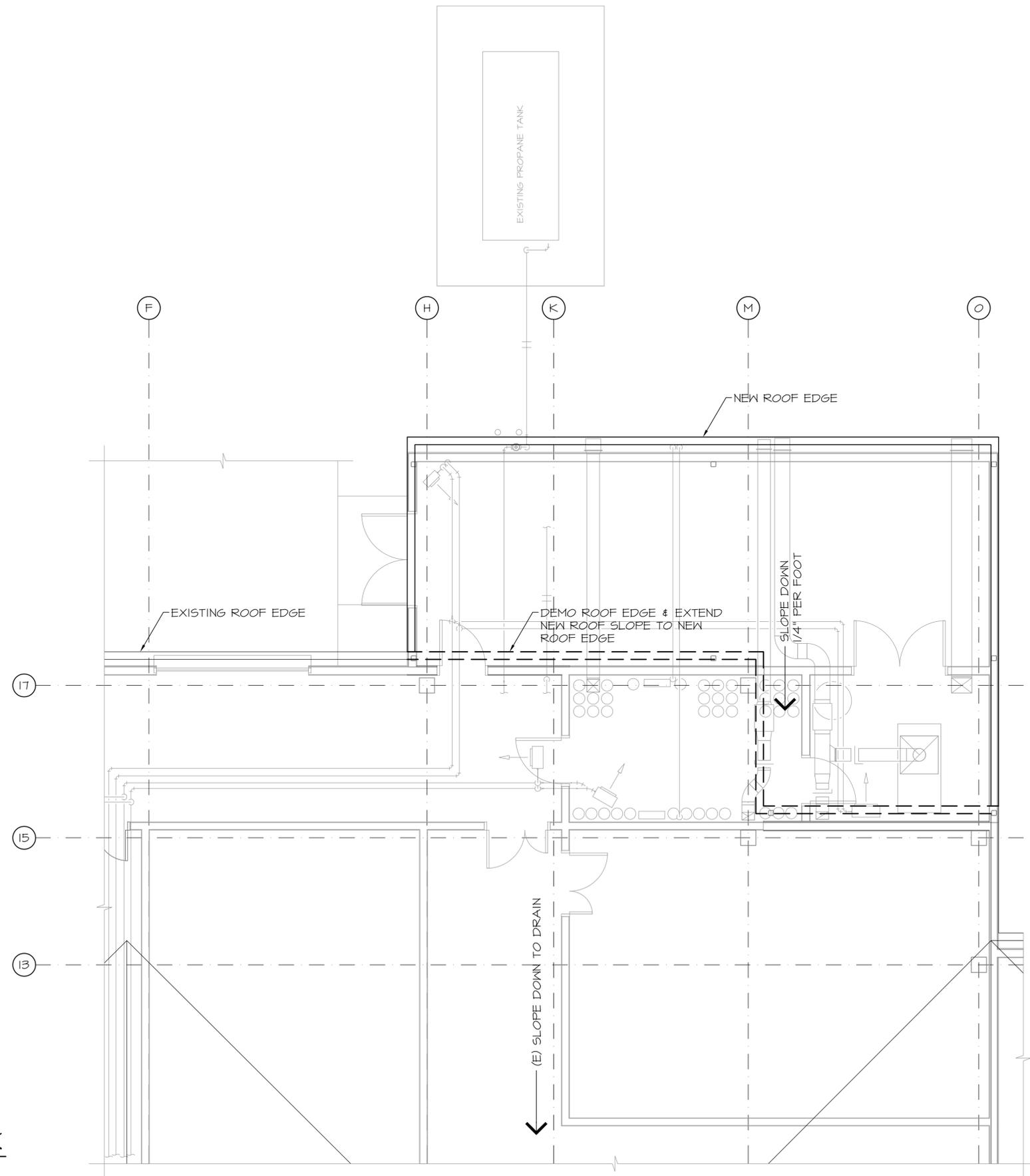
PARTIAL REFLECTED CEILING PLAN - DEMO & NEW WORK



NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17


PARTIAL ROOF PLAN - DEMO & NEW WORK
 SCALE: 1/4" = 1'-0"


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 PROJECT MANAGER: CODY ALLEN

Winchester Alaska Inc. ARCHITECTS & ENGINEERS
 425 G STREET, SUITE 510, ANCHORAGE, ALASKA 99501
 PH: (907) 562-1111 FAX: (907) 562-1112
 WWW.WINCHESTERALASKA.COM
 CORPORATE LICENSE # 2083


 Gerald L. Winchester
 NO. 5187-A
 11/3/2016
 REGISTERED PROFESSIONAL ENGINEER

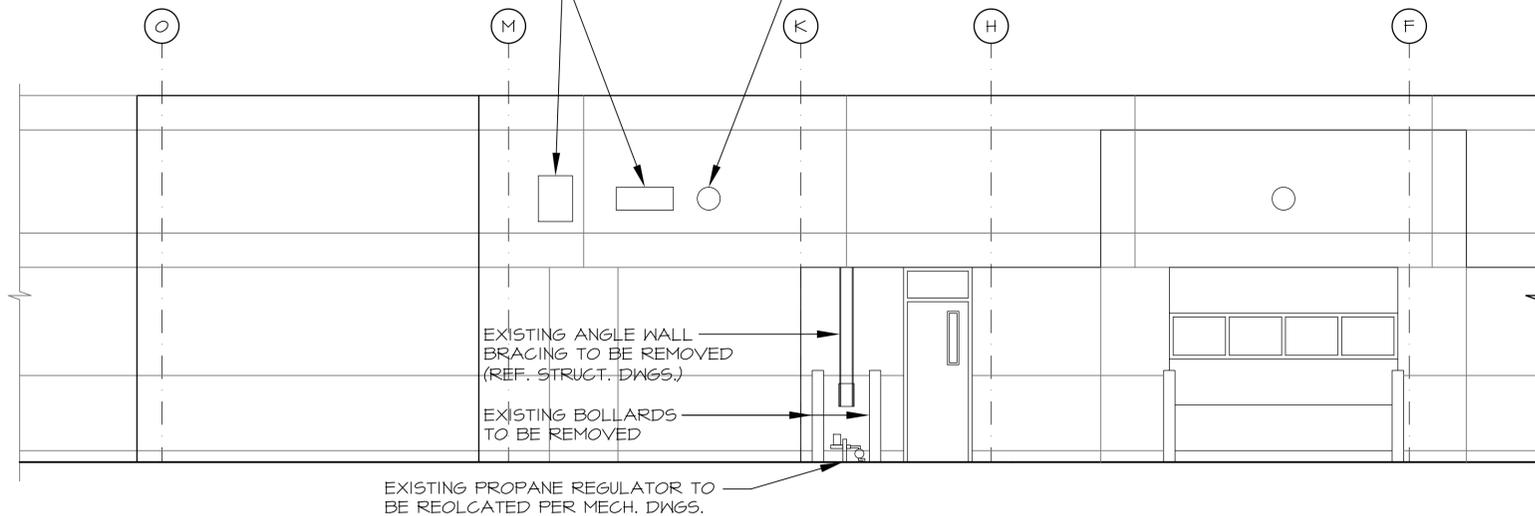
VALDEZ REGIONAL HEALTH CENTER
O2 GENERATOR ADDITION
 VALDEZ, ALASKA

| | |
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SHEET CONTENTS
 PARTIAL ROOF PLAN - DEMO & NEW WORK

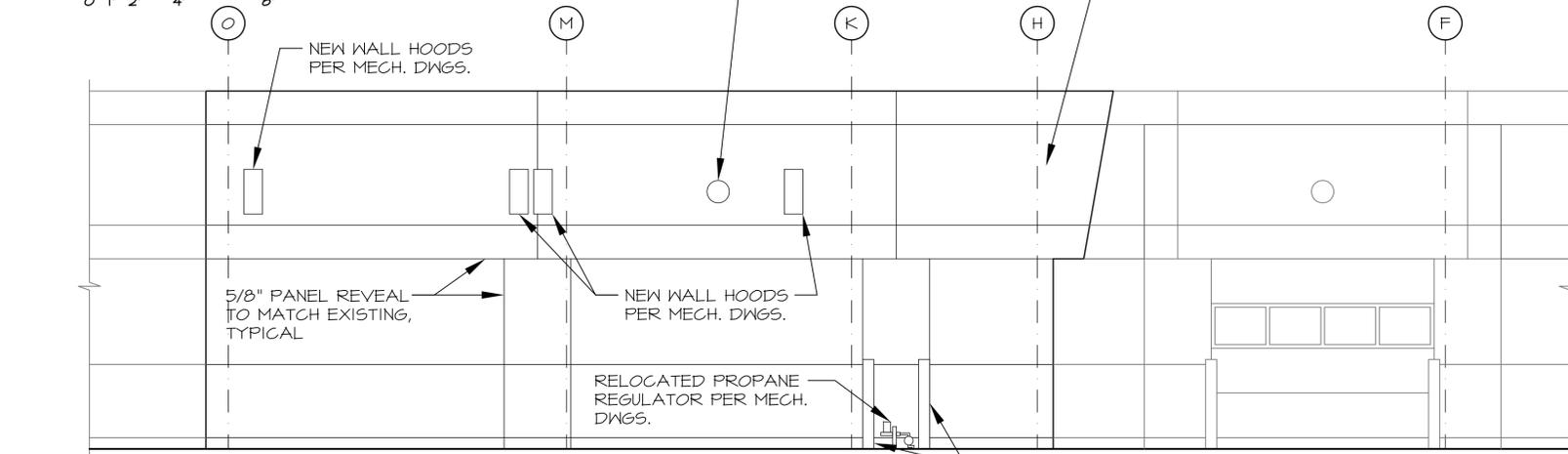
DRAWING NO.
A4.01

REMOVE EXISTING VENTS PER MECH. DWGS. ——— EXISTING LIGHT TO BE RELOCATED PER ELECTRICAL DRAWINGS



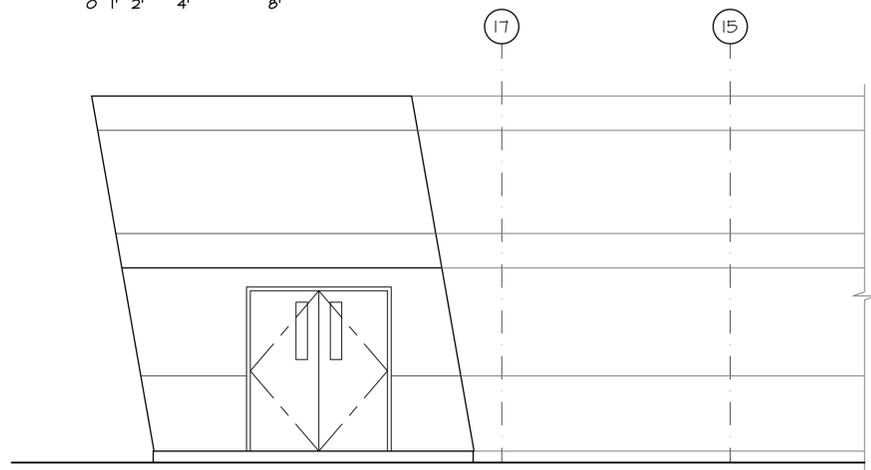
1 NORTH ELEVATION - DEMO

SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'



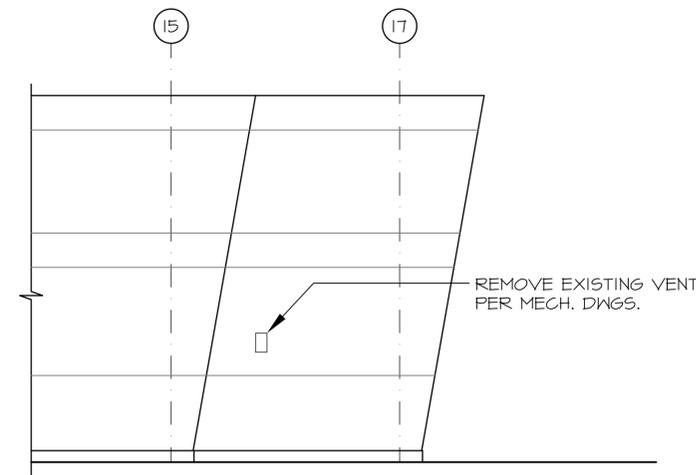
3 NORTH ELEVATION - NEW WORK

SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'



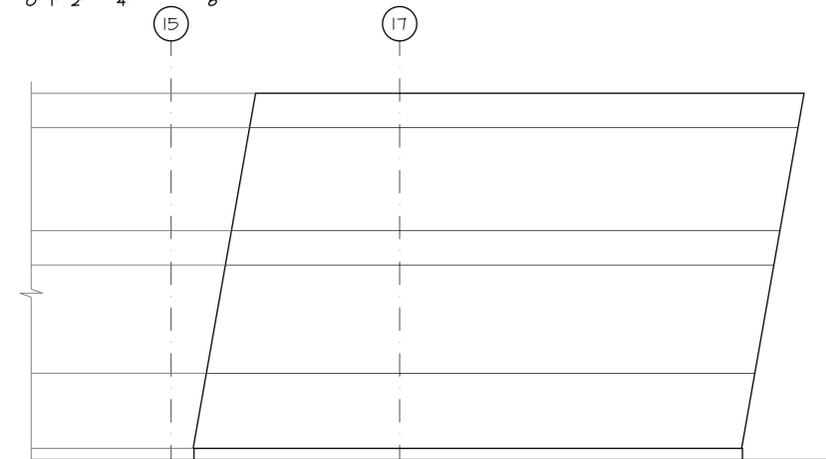
5 WEST ELEVATION - NEW WORK

SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'



2 EAST ELEVATION - DEMO

SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'



4 EAST ELEVATION - NEW WORK

SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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SHEET CONTENTS

EXTERIOR ELEVATIONS - DEMO & NEW WORK

DRAWING NO.
A8.01



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 CORPORATE LICENSE # 6283



**VALDEZ REGIONAL HEALTH CENTER
 O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

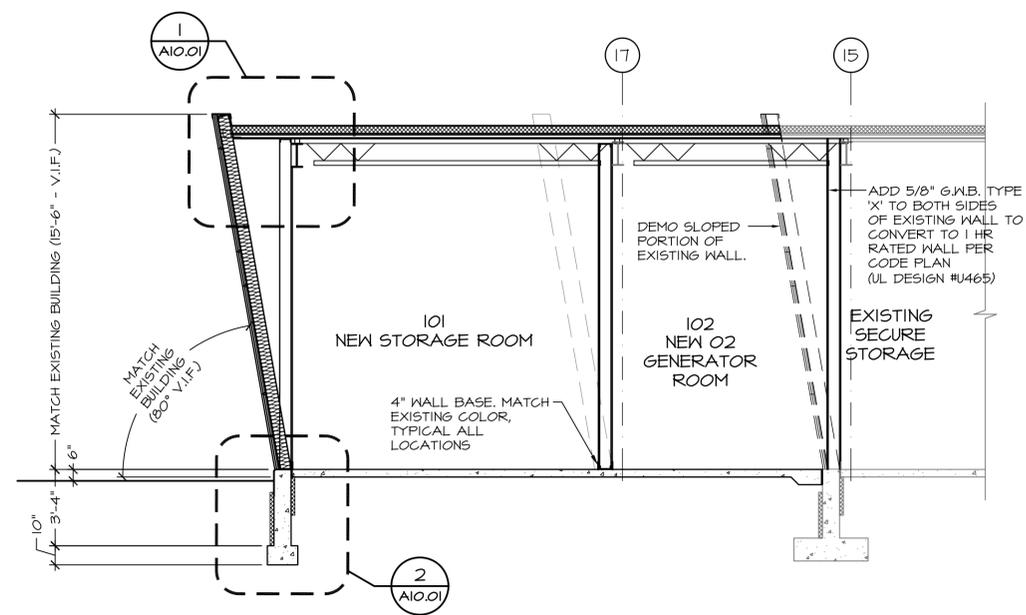
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SHEET CONTENTS
 BUILDING SECTIONS

DRAWING NO.
A9.01

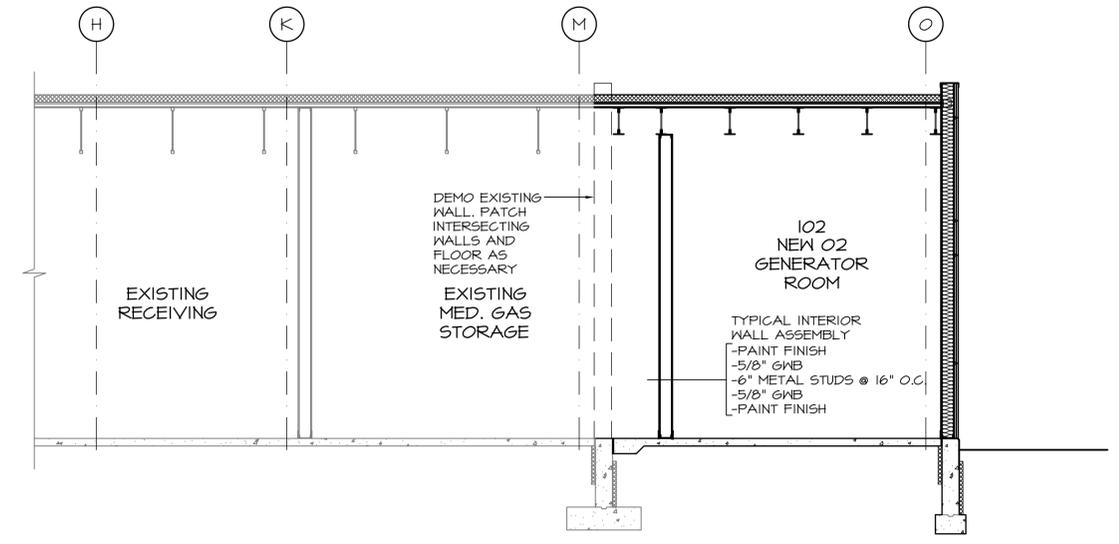
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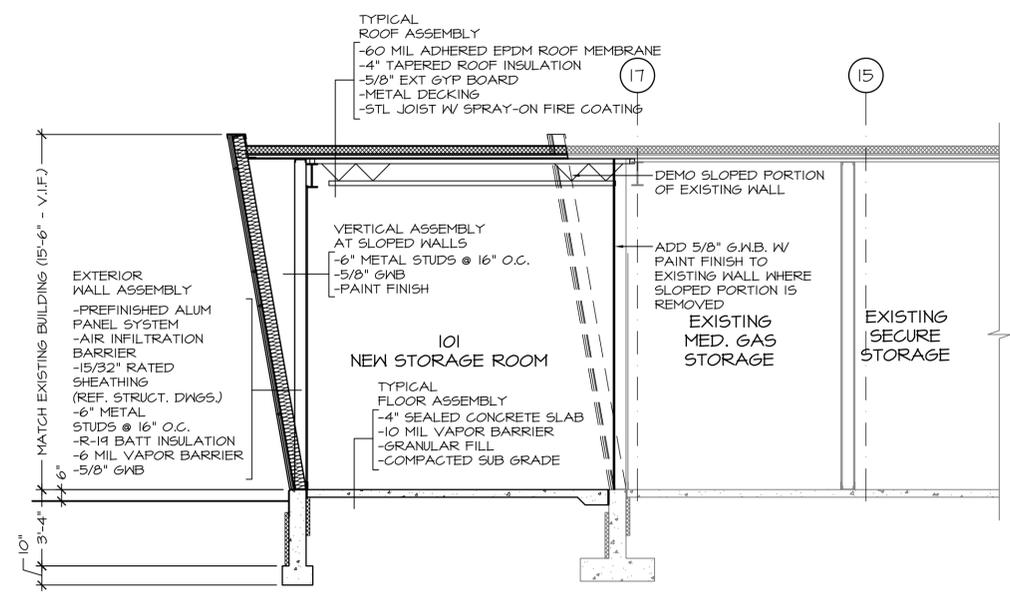


11:1 BUILDING SECTION
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'

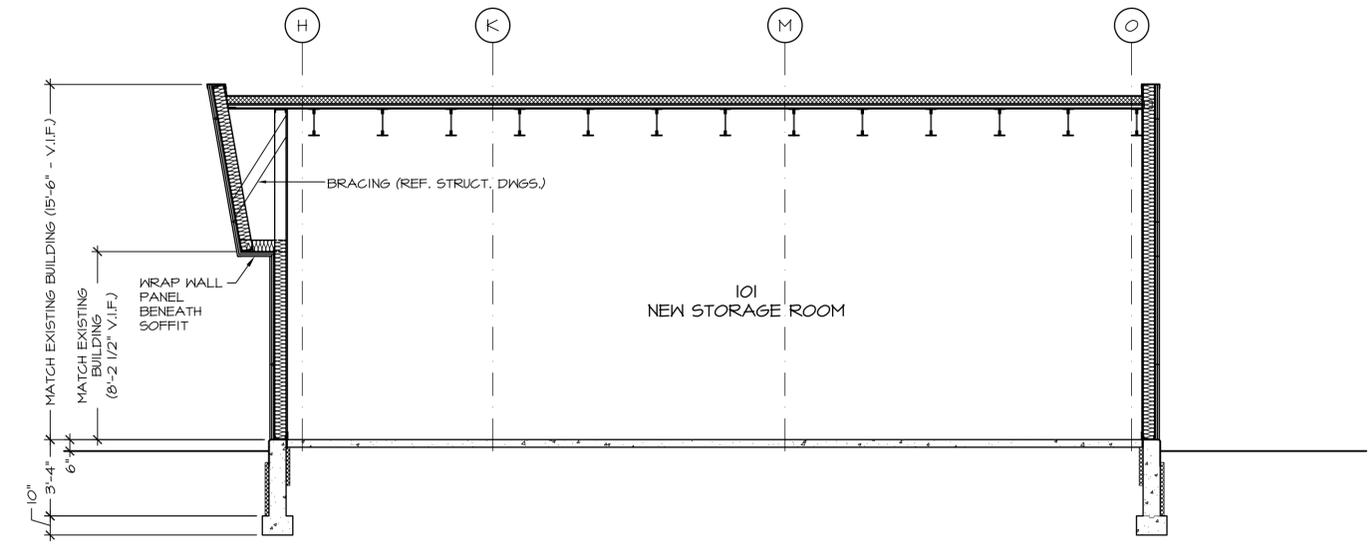
NOTE:
 ALL PAINT IN NEW AREAS OF WORK TO MATCH EXISTING MEDICAL GAS STORAGE ROOM. REPAINT EXISTING UNTOUCHED WALLS OF MEDICAL GAS STORAGE ROOM WHERE POSSIBLE.



11:2 BUILDING SECTION
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'



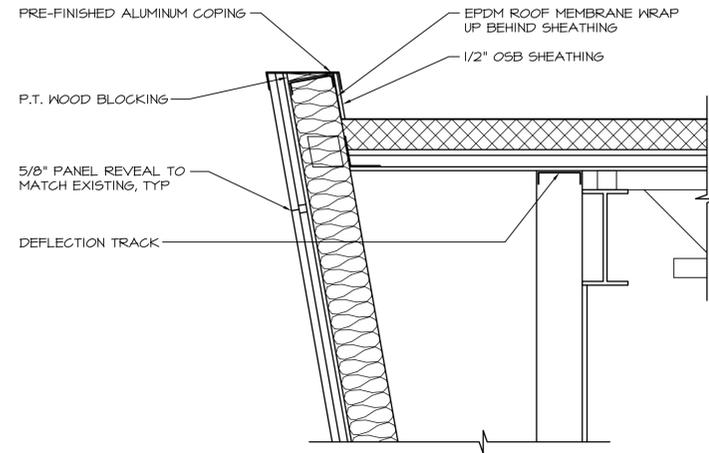
11:3 BUILDING SECTION
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'



11:4 BUILDING SECTION
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'

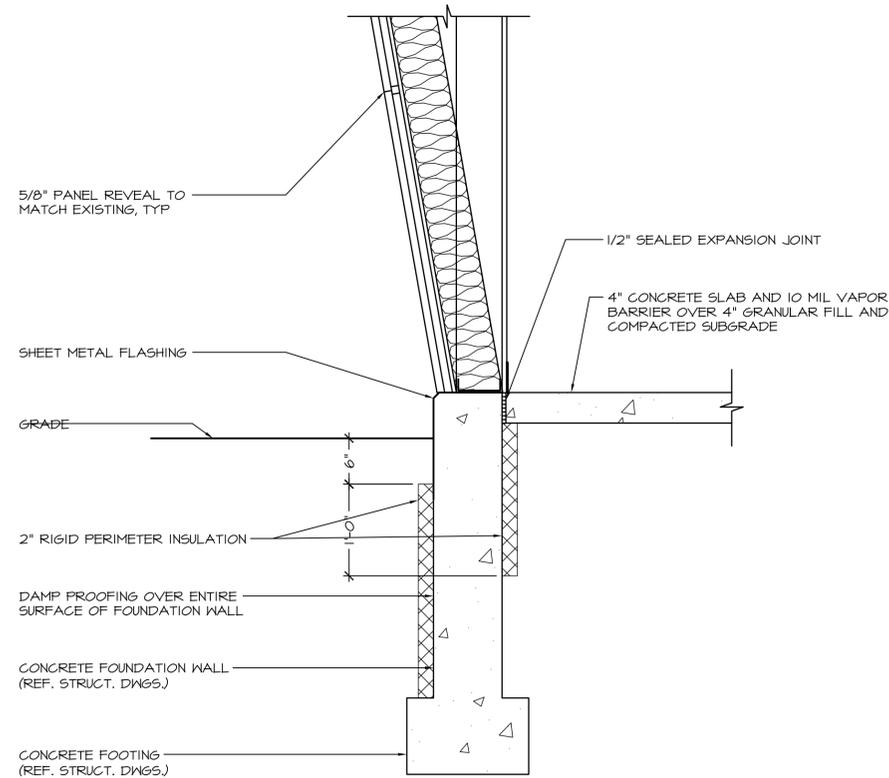
NOTE:

ALL JOINT DETAILS AT EXTERIOR METAL PANELS ARE TO BE DETAILED BY MANUFACTURER FOR A COMPLETE WATER PROOF INSTALLATION.



WALL CAP DETAIL

SCALE: 1" = 1'-0"
 0 3" 6" 1' 2'



EXTERIOR WALL FOOTING DETAIL

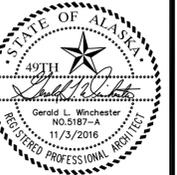
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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
 VALDEZ, ALASKA

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SHEET CONTENTS

DETAILS

DRAWING NO.

A10.01

ARCHITECTURAL SPECIFICATIONS

01000 - BASIC ARCHITECTURAL REQUIREMENTS

SCOPE: FURNISH AND INSTALL ALL ARCHITECTURAL MATERIAL AND EQUIPMENT AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS AND PER DIVISION I REQUIREMENTS. PROVIDE COMPLETE AND WORKING INSTALLATIONS READY FOR USE. SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY FEDERAL, STATE AND LOCAL JURISDICTIONS. REFER TO THE FOLLOWING DIVISIONS FOR REQUIREMENTS OF WORK INCLUDED IN SCOPE OF OTHER DISCIPLINES:

- DIVISION 3-5 - STRUCTURAL ENGINEERING
- DIVISION 15 - MECHANICAL ENGINEERING
- DIVISION 16 - ELECTRICAL ENGINEERING

STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE AND THE ADA - AMERICANS WITH DISABILITIES ACT, INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES.

MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS PROJECT SHALL BE NEW AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.

DRAWINGS: THE CONTRACTOR SHALL BRING ANY QUESTIONABLE ITEMS OR CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS, GOVERNING CODES OR MANUFACTURER'S INSTRUCTIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID, IN WRITING.

RECORD DRAWINGS: THE CONTRACTOR SHALL KEEP A SET OF RECORD DRAWINGS (REDLINES) SHOWING ALL ARCHITECTURAL WORK OR REVISIONS THERETO. RECORD DRAWINGS SHALL BE KEPT AT THE JOBSITE, AND SHALL BE AVAILABLE FOR REVIEW BY ARCHITECT AND AUTHORITY HAVING JURISDICTION DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT FINAL REDLINE SET TO THE ARCHITECT FOR APPROVAL PRIOR TO FINAL INSPECTION AND PROJECT ACCEPTANCE.

WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE NEAT AND MADE SO THAT ITS SEVERAL COMPONENT PARTS FUNCTION AS A WHOLE WORKABLE SYSTEM, COMPLETE WITH ALL ACCESSORIES NECESSARY FOR OPERATION. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

SUBMITTALS: PROVIDE A COMPLETE MATERIAL AND EQUIPMENT SUBMITTAL INCLUDING DATA FOR ALL ITEMS SPECIFICALLY DENOTED IN SPECIFICATION SECTIONS OR SPECIFIED BY A DRAWING REFERENCE. PROVIDE MATERIAL, FINISH AND COLOR SAMPLES AS REQUESTED BY THE ARCHITECT. SEE GENERAL CONDITIONS OF THE CONTRACT.

WARRANTIES: THE CONTRACTOR SHALL GUARANTY ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND IN WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION CERTIFICATION AS PROVIDED BY THE ARCHITECT/ENGINEER.

05500 - METAL FABRICATIONS

PROVIDE MISCELLANEOUS METAL AS SHOWN ON DRAWINGS. FOR FABRICATION OF WORK THAT WILL BE EXPOSED TO VIEW, USE ONLY MATERIALS WHICH ARE SMOOTH AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES AND ROUGHNESS. FINISH TO BE AS SPECIFIED.

- PLATES, SHAPES, AND BARS: ASTM A36.
- PLATES, BENT OR COLD FORMED: ASTM A283, GRADE C.
- TUBING: HOT-FORMED, WELDED OR SEAMLESS, ASTM A501.
- BARS AND BAR-SIZE SHAPES: ASTM A663.
- GALVANIZED CARBON STEEL SHEETS: ASTM A526, WITH ASTM A525, A 60 ZINC IRON ALLOY COATING.
- ELECTRO-GALVANIZED PARTS, SCREWS AND NUTS: FED SPEC NO. QQ-Z-325C, TYPE I
- STEEL PIPE: ASTM A53; TYPE AS SELECTED; GRADE A; BLACK FINISH UNLESS GALVANIZING IS REQUIRED; STANDARD WEIGHT (SCHEDULE 40), UNLESS OTHERWISE INDICATED.
- STAINLESS STEEL: AISI; TYPE 302; NO. 4 FINISH.

06100 - ROUGH CARPENTRY

LUMBER GRADING RULES: WCLIB OR WMPA. ALL ROUGH CARPENTRY SHALL BE DOUGLAS FIR (DF) #2 GRADE, OR BETTER. PROVIDE PLYWOOD CERTIFIED AND GRADE MARKED BY APA/EWA. SEE STRUCTURAL DRAWINGS FOR COMPLETE PLYWOOD SPECIFICATIONS AND OTHER ROUGH CARPENTRY REQUIREMENTS. PROVIDE WOOD TREATMENT FOR FIRE RESISTANCE OR DECAY RESISTANCE WHERE INDICATED ON DRAWINGS AND AS SPECIFIED.

07160 - DAMPPROOFING

PROVIDE DAMPPROOFING AT LOCATIONS INDICATED ON DRAWINGS. DAMPPROOFING TO BE COLD, EMULSION TYPE, BITUMINOUS MATERIL, SIMILAR AND EQUAL TO HYDROCLIDE 600 AS MANUFACTURED BY SONNEBORN, OR APPROVED EQUAL BY THE CONTRACTING OFFICER.

07190 - VAPOR / AIR INFILTRATION BARRIERS

PROVIDE VAPOR BARRIERS AT LOCATIONS INDICATED ON DRAWINGS: CLEAR 6 MIL THICK POLYETHYLENE FILM AND SHEETING. PROVIDE AIR INFILTRATION BARRIERS AT LOCATIONS INDICATED: "TYVEK HOUSEWRAP" AS MANUFACTURED BY THE DUPONT COMPANY, OR APPROVED EQUAL BY THE ARCHITECT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. JOINT TAPE FOR VAPOR BARRIER SHALL BE 6 MIL POLYETHYLENE FILM WITH "STICKY BACK" (PRESSURE SENSITIVE COATED ONE SIDE) AT ALL SEAMS AND PENETRATIONS.

07200 - THERMAL AND ACOUSTICAL INSULATION

PROVIDE THERMAL AND ACOUSTICAL INSULATION AT LOCATIONS INDICATED ON DRAWINGS, AS MANUFACTURED BY MANVILLE CO., U.S GYPSUM CO., OWENS CORNING CO., OR APPROVED EQUAL BY THE ARCHITECT. PROVIDE PRODUCTS IN THICKNESS OR WITH SOUND TRANSMISSION COEFFICIENT (STC) OR R-VALUE RATINGS AS INDICATED ON DRAWINGS. INSTALL PER MANUFACTURER'S WRITTEN RECOMMENDATIONS AND REQUIREMENTS.

07212 - INSULATION BOARD

PROVIDE INSULATION BOARD MATERIAL AT LOCATIONS INDICATED ON DRAWINGS, AS MANUFACTURED BY WESTERN INSULFOAM CORPORATION, BY DOW CHEMICAL CORP., OR APPROVED EQUAL BY THE ARCHITECT. PROVIDE PRODUCT SIMILAR TO INSULFOAM TYPE II (25 PSI) OR DOW STYROFOAM THERMODRY 750. PROVIDE PRODUCTS IN THICKNESS OR R-VALUE RATINGS & PROFILE AS INDICATED ON DRAWINGS.

07214 - FOAMED-IN-PLACE INSULATION

PROVIDE FOAMED-IN-PLACE INSULATION AT LOCATIONS INDICATED ON DRAWINGS, AS MANUFACTURED BY BURTIN URETHANE CORPORATION, ISOCYANURATE PRODUCTS INC., OR APPROVED EQUAL BY THE ARCHITECT. INSULATION SHALL BE TWO (2) COMPONENT POLYURETHANE ISOCYANURATE FIELD-APPLIED RIGID FOAM. FILL ALL CAVITIES COMPLETELY, AND NEATLY TRIM EXCESS MATERIAL FLUSH TO ADJACENT WORK.

07250 - SPRAYED FIRECOATING

SPRAYED FIRECOATING SHALL BE AN INTUMESCENT COATING; FACTORY MIXED MATERIAL FREE OF ALL ASBESTOS AND MINERAL WOOL, TESTED BY UNDERWRITERS LABORATORIES, INC., AND LISTED IN THEIR FIRE RESISTANCE DIRECTORY. MATERIAL MUST MEET ASTM E84 25/50 RATING.

07410 - PRE-FINISHED METAL PANEL & TRIMS

PROVIDE PRE-FINISHED METAL PANEL & TRIMS AT LOCATIONS INDICATED ON DRAWINGS, AS MANUFACTURED BY ALASKA METAL PRODUCTS, INC, OR APPROVED EQUAL BY THE ARCHITECT. STYLE TO BE PANEL PROFILE SERIES 1000 WITH COLOR TO MATCH EXISTING BUILDING. PROVIDE MANUFACTURER'S STANDARD LIMITED LIFETIME, NON-PRORATED WARRANTY, TRANSFERABLE TO NEW OWNER.

07533 - EDPM ROOFING

PROVIDE EDPM ROOFING AS INDICATED ON DRAWINGS. MANUFACTURER TO BE MUL-HIDE OR APPROVED EQUAL BY THE ARCHITECT. MEMBRANE TO BE 60 MIL FULLY ADHERED WITH MINIMUM SEAMING. PROVIDE MANUFACTURER 20 YEAR SINGLE PLY ROOF SYSTEM LIMITED WARRANTY.

07620 - SHEET METAL FLASHING AND TRIM

PROVIDE PRE-FINISHED METAL FLASHING AND TRIM AT LOCATIONS INDICATED ON DRAWINGS, AS MANUFACTURED BY ASC PACIFIC CO., OR APPROVED EQUAL BY THE ARCHITECT. SHEET MATERIALS SHALL BE HOT-DIPPED ZINC-COATED STEEL SHEET CONFORMING TO ASTM A 792, "ZINCALUME PLUS" OR "GALVALUME PLUS" GALVANIZED STEEL SHEET COATED WITH ZINC-ALUMINUM ALLOY WITH 22 GAUGE MINIMUM THICKNESS. PROVIDE MANUFACTURER'S STANDARD FLUOROPOLYMER COATING, TWO-COAT, THERMO-CURED, 70 PERCENT "KYNAR 500" OR APPROVED EQUAL BY THE ARCHITECT. FINISH COLOR TO BE SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

07840 - FIRESTOPPING & SMOKESTOPPING SYSTEMS

GENERAL: PROVIDE FIREPROOF FIRESTOPPING AND FIRESAFING MATERIALS AND ACCESSORIES TO FORM AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES, WHEREVER NEEDED TO MAINTAIN THE INTEGRITY OF FIRE RESISTANCE RATED WALL, FLOOR AND CEILING/FLOOR ASSEMBLIES. REFER TO STANDARDS AS PUBLISHED BY ASTM, ICBO, NFPA AND UL.

PERFORMANCE REQUIREMENTS: PROVIDE PROTECTION FOR BOTH THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS. PENETRATIONS SHALL MEET THE REQUIREMENTS FOR EITHER AN "F" RATING OR A "T" RATING, AS DEFINED IN UBC VOLUME I, SECTION 714, "THROUGH-PENETRATION FIRESTOPS".

SUBMITTALS: SUBMIT MANUFACTURER'S PRINTED LITERATURE INDICATING CONFORMANCE TO ASTM E119 OR ASTM E814, OR BOTH, TO ACHIEVE FIRE RATINGS AS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE DETAILS, MATERIALS AND METHODS OF MAINTAINING FIRE/SMOKE BARRIERS AT ALL CASES ENCOUNTERED, FOR APPROVAL BY THE ARCHITECT.

MANUFACTURERS: PROVIDE PRODUCTS AS MANUFACTURED BY HITTI CONSTRUCTION CHEMICALS, INC., 3M PROTECTION PRODUCTS, INTERNATIONAL PROTECTIVE COATINGS CORPORATION (IPC), OR EQUAL AS APPROVED BY THE ARCHITECT.

EXECUTION: FIRESTOPPING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND ALSO IN ACCORDANCE WITH PUBLISHED "THROUGH-PENETRATION FIRESTOP SYSTEMS" IN UL'S FIRE RESISTANCE DIRECTORY. MEET ALL REQUIREMENTS AND DIRECTIONS OF LOCAL JURISDICTION RELATING TO WORK OF THIS SECTION.

07920 - SEALANTS

PROVIDE PRE-COLORED JOINT SEALERS AS MANUFACTURED BY DOW CORNING, SONNEBORN CO., SIKA CO., TREMCO CO., OR APPROVED EQUAL BY THE ARCHITECT. MATCH FINAL FINISHED COLOR OF ADJACENT SURFACE MATERIALS. INSPECT SURFACES FOR SATISFACTORY AND PROPER CONDITIONS TO RECEIVE SEALANTS. APPLY SEALANTS TO DRY SURFACES ONLY. INSTALL FOAM BACKER ROD MATERIAL AS REQUIRED. PROVIDE CONCAVE JOINT CONFIGURATION (TYPICAL). INSTALL AT LOCATIONS AS FOLLOWS, AS APPLICABLE:

- AT HORIZONTAL JOINTS EXPOSED TO TRAFFIC, PROVIDE TWO-PART, COLD-APPLIED URETHANE PAVING SEALANT.
- AT EXTERIOR JOINTS NOT EXPOSED TO TRAFFIC, PROVIDE MULTI-PART NON-SAG URETHANE SEALANT.
- AT JOINTS AT COUNTERTOPS AND IN TILE JOINTS, PROVIDE MILDDEW-RESISTANT SILICONE SEALANT.
- AT OTHER INTERIOR JOINTS, PROVIDE ACRYLIC-EMULSION LATEX SEALANT.
- AT CONCEALED METAL-TO-METAL EXTERIOR JOINTS, USE NON-CURING SEALING AS RECOMMENDED BY MANUFACTURER OF METAL COMPONENT SYSTEM SELECTED FOR INSTALLATION.

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



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JANUARY 1987 - PRESENT
CORPORATE LICENSE # 0283



VALDEZ REGIONAL
HEALTH CENTER
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VALDEZ, ALASKA

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ARCHITECTURAL SPECIFICATIONS (CONTINUE)

08100 - EXTERIOR HOLLOW STEEL DOORS AND FRAMES

PROVIDE EXTERIOR STEEL DOORS AND FRAMES COMPLYING WITH STEEL DOOR INSTITUTE "RECOMMENDED SPECIFICATIONS: STANDARD STEEL DOORS AND FRAMES" (SDI-100) AND AS SPECIFIED HEREIN. PROVIDE PRODUCTS BY CECO DOOR PRODUCTS, AMWELD BUILDING PRODUCTS, INC., CURRIES CO., REPUBLIC BUILDERS PRODUCTS, STEELCRAFT CO., OR APPROVED EQUAL BY THE ARCHITECT. BASIS OF DESIGN IS BASED ON CECO DOOR PRODUCTS. EXTERIOR DOORS SHALL BE HEAVY DUTY ULTRADOR POLYSTYRENE CORE DOOR, 18 GAUGE STEEL, 690 GALVANIZED. PREPARE DOORS TO RECEIVE HARDWARE SPECIFIED. APPLY SHOP COAT OF PRIME PAINT OF EVEN CONSISTENCY TO DOORS AND FRAMES TO RECEIVE FINISH PAINT IN FIELD. PROVIDE METAL DOORS AND FRAMES OF TYPES AND STYLES INDICATED ON DRAWINGS OR SCHEDULES. FRAME SHALL BE HEAVY DUTY 16 GAUGE SERIES SQT AND SRT THERMAL BREAK, A60 GALVANIZED. PROVIDE WEATHER-STRIPPING AND CONCEALED WEATHERSEAL DOOR BOTTOM AT ALL EXTERIOR DOORS. INSTALL STANDARD STEEL DOORS, FRAMES AND ACCESSORIES IN ACCORDANCE WITH FINAL APPROVED SHOP DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

08110 - INTERIOR STEEL DOORS & FRAMES

PROVIDE INTERIOR STEEL DOORS AND FRAMES COMPLYING WITH STEEL DOOR INSTITUTE "RECOMMENDED SPECIFICATIONS: STANDARD STEEL DOORS AND FRAMES" (SDI-100) AND AS SPECIFIED HEREIN. PROVIDE PRODUCTS BY CECO DOOR PRODUCTS OR TIMELY INDUSTRIES, INC. (SERIES "M"), OR APPROVED EQUAL BY THE ARCHITECT. BASIS OF DESIGN IS CECO DOOR PRODUCTS. INTERIOR DOORS SHALL BE OMEGA HONEYCOMB CORE DOOR. PREPARE DOORS TO RECEIVE HARDWARE SPECIFIED. APPLY SHOP COAT OF PRIME PAINT OF EVEN CONSISTENCY TO DOORS AND FRAMES TO RECEIVE FINISH PAINT IN FIELD. PROVIDE METAL DOORS AND FRAMES OF TYPES AND STYLES INDICATED ON DRAWINGS OR SCHEDULES. FRAME SHALL BE 16 GAUGE SERIES DU SLIP-ON DRYWALL. INSTALL STANDARD STEEL DOORS, FRAMES AND ACCESSORIES IN ACCORDANCE WITH FINAL APPROVED SHOP DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

08700 - FINISH HARDWARE

PROVIDE FINISH DOOR HARDWARE AS INDICATED ON PLANS OR SCHEDULES, OR AS REQUIRED FOR COMPLETE INSTALLATION OF WORK AS INDICATED OR REQUIRED BY CODE. PROVIDE FINISHES AS SCHEDULED. OBTAIN EACH TYPE OF HARDWARE (LATCHES, LOCKSETS, ETC.) FROM A SINGLE MANUFACTURER. SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA IN SCHEDULE FOR EACH ITEM PROVIDED FOR APPROVAL BY THE ARCHITECT. ALL HANDLE HARDWARE SHALL BE LEVER TYPE, ADA APPROVED. COORDINATE KEYING SCHEDULE WITH THE OWNER AND PROVIDE THREE (3) KEYS FOR EACH LOCK. INSTALL PRODUCTS BY MANUFACTURERS AS FOLLOWS, OR PROVIDE EQUAL AS APPROVED IN WRITING BY THE ARCHITECT:

- AUTOMATIC FLUSH BOLTS: DOOR CONTROLS, GLYNN JOHNSON
- BUTTS: HAGER, STANLEY, MCKINNEY, LAWRENCE. EXTERIOR AND VESTIBULE DOORS, PROVIDE NON-FERROUS, HEAVY DUTY 4 BALL BEARING HINGES, INTERIOR DOORS, PROVIDE STANDARD WEIGHT 2 BALL BEARING HINGES UNLESS NOTED OTHERWISE.
- COORDINATORS: DOOR CONTROLS, GLYNN JOHNSON
- CYLINDERS: SCHLAGE, BEST, SIMPLEX
- DOOR CLOSERS: LCN COMPANY
- DOOR SILENCERS: IVES, BUILDERS BRASS WORKS, QUALITY, GLYNN JOHNSON
- ELECTRO-MAGNETIC DOOR RELEASE: RIXSON-FIREWARK, LCN COMPANY
- EXIT DEVICES: VAN DUPRIN
- KICK AND ARMOR PLATES: BUILDERS BRASS WORKS, QUALITY, TICE, TRIMCO
- LOCKSETS: VING, SCHLAGE, BEST, SIMPLEX
- OVERHEAD STOP AND HOLDERS: IVES, GLYNN JOHNSON, ABH, RIXON, TRIMCO
- PUSH AND PULLS: BUILDER BRASS WORKS, QUALITY, TICE, TRIMCO
- STOPS AND HOLDERS: BUILDERS BRASS WORKS, QUALITY, GLYNN JOHNSON
- WEATHERSTRIP, SMOKE GASKETS AND THRESHOLD: PEMKO, REESE, NATIONAL GUARD

HARDWARE GROUPS: TO BE SUBMITTED TO CONTRACTING OFFICER FOR APPROVAL

08800 - GLASS AND GLAZING

PROVIDE GLASS AND GLAZING AS INDICATED OR SCHEDULED, AND AS MANUFACTURED BY CARDINAL INSULATING GLASS, LIBBEY OWENS FORD GLASS, PITTSBURG PLATE GLASS OR APPROVED EQUAL BY THE ARCHITECT. COORDINATE WITH OTHER PRODUCTS AND OTHER TRADES AFFECTED BY WORK OF THIS SECTION. COMPLY WITH SAFETY GLAZING REQUIREMENTS OF INTERNATIONAL BUILDING CODE, SECTION 2406. MANUFACTURER SHALL PROVIDE A WRITTEN, SIGNED PENAL SUM WARRANTY AGAINST WINDOW EDGE AND SEAL FAILURE FOR A PERIOD OF TEN (10) YEARS FOLLOWING DATE OF SUBSTANTIAL COMPLETION. MANUFACTURER SHALL ALSO PROVIDE A WRITTEN, SIGNED WARRANTY AGAINST MIRROR DE-SILVERING FAILURE FOR A PERIOD OF FIVE (5) YEARS FOLLOWING DATE OF SUBSTANTIAL COMPLETION. ALL GLASS SHALL BE CLEAR AND SMOOTH UNLESS INDICATED OTHERWISE ON DRAWINGS. IF FIELD MEASUREMENTS DIFFER SLIGHTLY FROM DRAWING DIMENSIONS MODIFY WORK AS REQUIRED FOR ACCURATE FIT. IF MEASUREMENTS DIFFER SUBSTANTIALLY, NOTIFY CONTRACTING OFFICER PRIOR TO FABRICATION.

09255 - GYPSUM BOARD ASSEMBLIES

PROVIDE GYPSUM BOARD ASSEMBLIES BY DOMTAR GYPSUM, GEORGIA-PACIFIC CORP., NATIONAL GYPSUM, U.S. GYPSUM, OR APPROVED EQUAL BY THE ARCHITECT. TYPICAL INSTALLATION TO BE TYPE "X" 5/8 INCH FIRE CODE GYPSUM WALLBOARD ON METAL STUD SUBSTRATE. PROVIDE SIZE, GAUGE, AND SPACING OF FRAMING MEMBERS IN COMPLIANCE WITH REQUIREMENTS OF ASTM C 754. STUDS AND TRACKS SHALL COMPLY WITH ASTM C 645, STEEL, WITH PROTECTIVE COATING, MINIMUM GAUGE 20 THICKNESS. PROVIDE MISCELLANEOUS MATERIALS AS PRODUCED OR RECOMMENDED BY MANUFACTURER OF GYPSUM PRODUCTS. PROVIDE STEEL STUD INSTALLATION IN COMPLIANCE WITH RECOMMENDATIONS OF USG CORPORATION'S "GYPSUM CONSTRUCTION HANDBOOK". REINFORCE JOINTS AS REQUIRED FOR SIZE AND WEIGHT OF DOORS AND WINDOWS. COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, STANDARD DETAILS, AND RECOMMENDATIONS, EXCEPT WHERE THESE ARE EXCEEDED BY REQUIREMENTS OF THESE CONTRACT DOCUMENTS. PROVIDE LEVEL 4 JOINT FINISHING AT ALL SURFACES EXPOSED TO PUBLIC VIEW. PROVIDE LEVEL 1 JOINT FINISHING (FIRE TAPING) AT UNFINISHED SPACES, UTILITY SPACES AND SURFACES CONCEALED FROM VIEW BY CEILINGS. PROVIDE OTHER WALL AND CEILING FINISHES AS SCHEDULED.

09650 - RESILIENT WALL BASE

PROVIDE RESILIENT WALL BASE AS MANUFACTURED BY JOHNSONITE OR APPROVED EQUAL BY THE ARCHITECT, PROVIDE WALL BASE COMPLYING WITH F5 55-W-40, RUBBER BASE, 4" HIGH, COVED, 1/8" THICK WITH MATCHING PRE-FORMED EXTERNAL CORNERS AND JOB-FORMED INSIDE CORNERS. ARCHITECT SHALL SELECT COLOR FROM MANUFACTURER'S FULL RANGE OF COLORS AND PATTERNS.

09900 - PAINTING AND FINISHING

PROVIDE PAINT AND FINISH MATERIALS AS PROVIDED BY RODDA PAINTS, BENJAMIN MOORE & COMPANY, FULLER O'BRIEN, PRATT LAMBERT, PARKER PAINT, PRESERVATIVE PAINT, OR APPROVED EQUAL BY THE ARCHITECT. SUBMIT MANUFACTURER'S TECHNICAL DATA SHEETS FOR EACH PRODUCT PROPOSED. DELIVER MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS. FINISH COLORS TO BE SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD COLORS, AS APPROVED BY OWNER. VERIFY WITH THE INSTALLER THAT SUBSTRATE AREAS WHERE PAINT AND FINISH MATERIAL ARE TO BE INSTALLED HAVE BEEN PREPARED CORRECTLY AND IN COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. START OF PAINTING AND FINISHING WORK CONSTITUTES ACCEPTANCE OF ENVIRONMENTAL AND SUBSTRATE CONDITIONS AND FULL RESPONSIBILITY FOR THE COMPLETED WORK. PROVIDE ALL WORK IN COMPLIANCE WITH MANUFACTURER'S STANDARDS AND WRITTEN RECOMMENDATIONS AND REQUIREMENTS. PROVIDE MATERIALS AS SCHEDULED BELOW:

- ALL FERROUS METAL (INTERIOR & EXTERIOR): ONE (1) COAT RUST-INHIBITING PRIMER, FOLLOWED BY TWO (2) COATS SEMI-GLOSS ALKYD ENAMEL.
- INTERIOR GYPSUM WALLBOARD: ONE (1) COAT GYPSUM BOARD SURFACE SEALER, FOLLOWED BY TWO (2) COATS EGGSHELL-GLOSS LATEX ENAMEL.

10440 - SIGNS & IDENTIFYING DEVICES

PROVIDE INTERIOR AND EXTERIOR SIGNAGE AS NEEDED FOR FULL COMPLIANCE WITH ADA STANDARDS AND REQUIREMENTS AND AS SPECIFIED HEREIN. PROVIDE ROOM IDENTIFICATION SIGN TO MATCH EXISTING.

10520 - FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

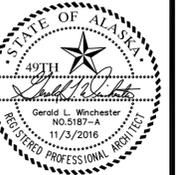
PROVIDE IOABC FIRE EXTINGUISHERS, RED COLOR, 10 POUND SIZE # FEX456, IN FIRE EXTINGUISHER CABINETS SIMILAR TO AMBASSADOR # FEC 1013-F10. RED COLOR METAL WITH BAKED ENAMEL FINISH.

END ARCHITECTURAL SPECIFICATIONS



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STRUCTURAL NOTES

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SITE CONDITIONS, SPECIFICATIONS AND THESE NOTES SHALL BE REPORTED TO THE ARCHITECT/ ENGINEER AT ONCE.

ALL CONSTRUCTION SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE LOCAL BUILDING OFFICIAL.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA AND DOSH SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE. PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR SAFETY PRACTICES.

CODE
2012 INTERNATIONAL BUILDING CODE (IBC)

DESIGN LIVE LOADS

FLOOR LOADS - ACTUAL EQUIPMENT LOADS, MIN. 15 PSF LIVE LOAD
MINIMUM ROOF LIVE LOAD = 20 PSF

SNOW WIND DESIGN DATA

GROUND SNOW LOAD = 160 PSF
ROOF SNOW LOAD = 140 PSF
SNOW EXPOSURE FACTOR, $C_e = 0.90$
SNOW LOAD IMPORTANCE FACTOR = 1.20
THERMAL FACTOR, $C_t = 1.0$

VELOCITY = 165 MPH HOUR 3 SECOND GUST
IMPORTANCE FACTOR, $I_w = 1.0$
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT, $GCP1 = \pm 0.18$
COMPONENTS AND CLADDING PRESSURES,

SEISMIC DESIGN DATA

$I_e = 1.50$
 $S_s = 150g$, $S_1 = 0.16g$, $S_D5 = 1.00g$, $S_D1 = 0.61$
SITE CLASS D
SEISMIC DESIGN CATEGORY D
SEISMIC RESISTING SYSTEM = BEARING WALL, PLYWOOD SHEARWALLS, $R = 6.5$
SEISMIC BASE SHEAR = $V_s = 91 KIPS$ $C_s = 0.204$
EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN

FOUNDATION BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 2000 PSF WITH THE EXISTING SOIL TO BE FREE OF ORGANICS, AND NON-FROST SUSCEPTIBLE MATERIAL THROUGHOUT. CONTRACTOR TO NOTIFY OWNER ONCE EXCAVATION HAS BEGUN TO VERIFY WITH A BOTTOM OF THE HOLE INSPECTION THAT THE ACTUAL SITE CONDITIONS COMPLY WITH THESE ASSUMPTIONS. ALL WORK TO BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S FINAL RECOMMENDATIONS AND REQUIREMENTS.

ALL ORGANIC, FROZEN OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NF5) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB GRADE OR COMPACTED NF5 BACK FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF.

NON FROST SUSCEPTIBLE SOILS SHALL CONSIST OF INORGANIC SOILS CONTAINING LESS THAN 3 PERCENT BY WEIGHT OF PARTICLES SMALLER THAN 0.075MM.

ALL FOOTINGS AND SLAB SUB-GRADES SHALL BE COMPACTED TO 95 % MAXIMUM DENSITY AS MEASURED WITH ASTM D1557. BACK FILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.

DISCHARGE ROOF RUNOFF AND WATER COLLECTED IN FOUNDATION DRAINS AWAY FROM THE FOUNDATION. PROVIDE SITE DRAINAGE AWAY FROM THE FOUNDATION. PROVIDE FOUNDATION WALL WATERPROOFING/DAMP PROOFING WHEN REQUIRED BY THE CODE AS SHOWN ON THE ARCHITECTURAL PLANS. PROVIDE A FOOTING DRAIN AND WATER REMOVAL SYSTEM FOR BASEMENT FOUNDATION WALLS.

NO CONSTRUCTION SHALL BEGIN UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY STEPS TO PREVENT ANY FROST OR ICE FROM FORMING UNDER ANY FOOTING OR SLAB UNTIL THE PERMANENT STRUCTURE IS ENCLOSED AND HEATED.

SPECIAL INSPECTIONS/QUALITY ASSURANCE PROGRAM

SPECIAL INSPECTION IS REQUIRED BY CHAPTER 11 OF THE IBC. OWNER TO ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION (AT A MINIMUM)

- SOILS COMPACTION, GRADATION, AND FILL.
- CONCRETE REINFORCEMENT INSPECTION PERIODIC PRIOR TO PLACEMENT.
- STEEL, 100% VISUAL INSPECTION OF ALL WELDS, NON DESTRUCTIVE TESTING OF FILLET WELDS 3/8" THROAT AND LARGER.
- SEISMIC HOLD DOWNS, STEEL AND WOOD LATERAL RESISTING SYSTEMS.
- HIGH STRENGTH BOLTS
- WOOD BUILDING LATERAL SYSTEMS. INSPECT PRIOR TO COVER, FRAMING SPECIES, SHEATHING TYPE, NAIL AND ANCHOR BOLT TYPE, PLATE WASHERS, SHEAR WALL EDGE NAILING, SHEAR WALL TOP PLATE, TIE DOWN ANCHOR BRACKET TYPE AND LOCATION, HURRICANE CLIPS, STRAPS, DRAG STRUT CONNECTIONS WHERE CALLED OUT.

THE SPECIAL INSPECTION FIRM TO PROVIDE A SPECIAL INSPECTION AND QUALITY ASSURANCE PLANS PROGRAM FOR THE SEISMIC SYSTEM PER IBC 1105-2 FOR APPROVAL BY THE OWNER AND ENGINEER OF RECORD. THE CONTRACTOR SHALL PROVIDE A LETTER OF RESPONSIBILITY PER IBC 1105.3 TO THE OWNER PRIOR TO CONSTRUCTION.

CONCRETE

ALL CONSTRUCTION SHALL BE PER THE AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND IBC, LATEST EDITIONS. SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT PRIOR TO FABRICATION.

MATERIALS:

f'_c FLOOR SLABS 3000 psi
 f'_c OTHER 3000 psi
SLUMP 3" MAX
W/C RATIO - 0.55 MAX
AIR ENTRAINMENT = 5% (WHERE WEATHER EXPOSED)
PORTLAND CEMENT - ASTM C150 TYPE III
AGGREGATE, 1" MAX - ASTM C34, SECTION 4.13
EPOXY GROUT - ASTM C881
DEFORMED REINFORCEMENT - ASTM A615 G60
WELDED WIRE FABRIC - ASTM A185 OR A497
NON-SHRINK NONMETALLIC GROUT - ASTM C1101

ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C260. CHAMFER ALL EXPOSED CORNERS 3/4" UNLESS NOTED OTHERWISE. A CURING COMPOUND SHALL BE APPLIED (PER MANUFACTURER'S SPECIFICATIONS) TO ALL EXPOSED CONCRETE SURFACES UPON INITIAL SET OR FILLING OF FORMS.

COLD WEATHER CONCRETE SHALL CONFORM TO ACI 306 (ALL COLD WEATHER CONCRETE SHALL CONTAIN AIR ENTRAINMENT PER ACI TABLE 4.11). CALCIUM CHLORIDE SHALL NOT BE USED. MAINTAIN A MINIMUM OF 45 DEGREES F BEFORE, DURING AND FOR 1 DAYS AFTER ALL CONCRETE PLACEMENT.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND ACI 315. LAP BARS WITH A CLASS B SPLICE AND 40 DIAMETER MINIMUM. MECHANICALLY CONSOLIDATE CONCRETE.

ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM WITH ALL PROVISIONS SPECIFIED IN ACI 318, SECTION 6.3 AND THE FOLLOWING. ALL PIPES AND CONDUITS THRU FOOTINGS AND WALLS MUST BE ISOLATED WITH DIAMETER 4" SLEEVES SPACED NO CLOSER THAN 6" O.C. PIFE AND CONDUITS MAY BE PLACED IN S.O.C. GREATER THAN 45" - DIAMETER MUST NOT EXCEED 15". PLACE IN MIDDLE THIRD OF THICKNESS - DO NOT DISPLACE REINFORCEMENT. SPACE AT 6" O.C. MINIMUM. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS SHALL BE PROVIDED AS SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS. INSTALLATION OF THESE ITEMS SHALL BE COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS.

CONCRETE COVER:

FOOTINGS 3", WALLS 1" EXCEPT 1-1/2" WHERE EXPOSED TO WEATHER, AND 2" AGAINST EARTH. SLABS AND JOISTS 1", SLABS ON GRADE 1-1/2". DOUELS SHALL BATCH SIZE AND NUMBER OF MAIN REINFORCING. MINIMUM VERTICAL SPACING OF BARS IN A ROW MAXIMUM 1" OR BASE DIAMETER AND BARS MUST STACK. WELDING OF REINFORCEMENT IS NOT ALLOWED.

FOOTINGS:

PROVIDE REINFORCING AS SHOWN ON THE DRAWINGS. PROVIDE CORNER BARS OF SAME SIZE AND NUMBER AT CORNERS AND INTERSECTIONS, 40 BAR DIAMETERS OR 24" (WHICHEVER IS GREATER) EACH LEG. PROVIDE VERTICAL DOUELS SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS WITH A 90 DEGREE STANDARD HOOK AT THE BOTTOM OF THE FOOTING, UNO.

SLAB ON GRADE:

FLOOR SLAB SHALL BE 4" THICK CONCRETE SLAB ON GRADE OR AS SHOWN ON THE DRAWINGS. REINFORCE SLAB WITH 6X6-W14X14 WELDED WIRE FABRIC, PLACED 1-1/2" FROM TOP OF SLAB. LAP WELDED WIRE FABRIC 6". AND EXCEPT AS SHOWN ON CONTROL JOINT DETAILS, WELDED WIRE FABRIC SHALL BE SUPPORTED ON APPROVED CHAIRS. CONTRACTOR SHALL TAKE SPECIAL CARE TO ASSURE THAT WELDED WIRE FABRIC USED IS SUPPORTED IN ITS PROPER LOCATION. PLACE MIN 6 MIL VAPOR BARRIER OVER PREPARED FILL IMMEDIATELY BENEATH THE SLAB. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTERLINE OF THE COLUMNS, EACH WAY, AND AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS, MAXIMUM SPACING OF 15':
1) CONSTRUCTION JOINTS WHERE DETAILED ON THE DRAWINGS, 2) SAW CUT CONTROL JOINTS ELSEWHERE (SHALL BE A MINIMUM OF 1/4 OF SLAB THICKNESS). A METAL CONSTRUCTION JOINT FORM MAY BE USED. REMOVE METAL FORMS BEFORE PLACING SECOND POUR.

WALLS:

REINFORCE WALLS AS SHOWN ON THE DRAWINGS.

AT OPENINGS OVER 12" SQUARE, PROVIDE 2 #5 BARS AT CENTER OF WALLS ALL FOUR SIDES, EXCEPT FOR 10" WALLS AND OVER, PROVIDE 1 #4 EACH FACE ALL FOUR SIDES, EXTENDING 40 DIAMETERS PAST OPENING. PROVIDE 1 #4 X 4" DIAGONAL BAR AT CENTER OF WALL AT ALL FOUR CORNERS.

AT CORNERS, PROVIDE CORNER BARS INTO OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS, 40 DIAMETERS EACH LEG.

AT INTERSECTIONS, PROVIDE CORNER BARS IN OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS OF INTERSECTING WALL, 40 DIAMETERS EACH LEG.

DRILLED IN CONCRETE ANCHOR (DICA)

EXPANSION ANCHORS SHALL BE USED AS SHOWN ON THE DRAWINGS, RAYSET TRU-BOLTS OR EQUAL. USE CORROSION RESISTANT FASTENERS. ICBO CERTIFICATION REQUIRED, UNLESS OTHERWISE NOTED, DICA MAY BE INSTALLED WITHOUT SPECIAL INSPECTION.

DRILL IN ADHESIVE BOLTS:

ITU ACRYLIC TIE EPOXY ANCHOR SYSTEM FOR CONCRETE SHALL BE USED, OR APPROVED EQUAL. ICBO CERTIFICATION REQUIRED.
LOW VELOCITY FASTENERS - HILTI CN1 POWDER ACTUATED FASTENER SYSTEM, 0.145" DIAMETER MINIMUM. USE CORROSION RESISTANT FASTENERS. ICBO CERTIFICATION REQUIRED.

STRUCTURAL STEEL

ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC SPECIFICATIONS AND CODES, AND INTERNATIONAL BUILDING CODE, LATEST EDITIONS. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION. THESE DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE SUBMITTAL AND SHALL SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL, STEEL JOISTS AND METAL DECK.

MATERIALS:

STRUCTURAL STEEL - W SHAPES ASTM A992
STRUCTURAL STEEL - CHANNELS, ANGLES, PLATES - ASTM A36
STRUCTURAL STEEL - TUBES (HSS) ASTM A500 GRADE B
STRUCTURAL STEEL - PIPES ASTM A53, GRADE BEARING CONNECTIONS (UNO) - ASTM A325N OR A490N
NON SHRINK NONMETALLIC GROUT - ASTM C1101

ALL WELDING SHALL CONFORM TO AWS D11, LATEST EDITION. ALL WELDING ELECTRODES TO BE WELL CONDITIONED E70XX. ALL FLUXES SHALL BE LOW HYDROGEN TYPE. MINIMUM WELD IS 3/8" FILLET. WELDERS TO BE CERTIFIED PER AMERICAN WELDING SOCIETY FOR ROD AND POSITION WITHIN THE LAST 12 MONTHS.

MOST CONNECTIONS SHALL BE SIMPLE, SINGLE PLATE SHEAR CONNECTIONS USING HIGH STRENGTH BOLTS OF WHICH THREADS MAY BE INCLUDED IN THE SHEAR PLAN, A325 - N, UNLESS OTHERWISE NOTED. THE SHEAR PLATE SHALL HAVE SHORT SLOTTED HOLES PARALLEL TO THE LONG AXIS OF THE BEAM. NUTS SHALL BE SNUG TIGHT UNLESS OTHERWISE NOTED. ALL CONNECTIONS RESISTING LATERAL LOADS SHALL BE FULLY TENSIONED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES. CONSIDERATION SHOULD BE GIVEN TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

ALL BEAMS, JOISTS, AND TRUSSES SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. CAMBER FLOOR BEAMS 1/4" AND ROOF BEAMS A DISTANCE OF L/480 AT MIDSPAN FOR ALL SPANS GREATER THAN 20'.

STRUCTURAL STEEL DECKING

STEEL DECKING SHALL BE DESIGNED, MANUFACTURED AND INSTALLED PER STEEL DECK INSTITUTE SPECIFICATIONS. ICBO CERTIFICATION REQUIRED.

SUBMIT SHOP DRAWINGS. ALL STEEL DECKING SHALL MEET A653-56, GRADE 22, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. ALL DECKING SHALL BE GALVANIZED PER ASTM A 653-660. ALL ROOF DECK SHALL BE FORMED WITH TELESCOPED ENDS DESIGNED TO LAP A MINIMUM OF 2".

FLOOR DECKING, 1-1/2"X20 GAUGE COMPOSITE DECK, $I_{min} = 0.30$ IN4/FT, $S_{min} = 0.22$ IN3 PER FOOT, CONTINUOUS OVER 3 SPANS MINIMUM.

THE METAL DECKING IN THIS PROJECT IS TO PERFORM AS A STRUCTURAL DIAPHRAGM, WITH SHEAR LOADS OF 400 PLF.

STEEL JOIST AND GIRDERS

STEEL JOIST AND GIRDERS SHALL MEET THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AND STEEL JOIST INSTITUTE (SJI) AND THE INTERNATIONAL BUILDING CODE, LATEST EDITION. SUBMIT CHECKED SHOP DRAWINGS PRIOR TO FABRICATION.

THE JOIST MANUFACTURER SHALL PROVIDE ALL BRIDGING - BOTH PERMANENT AND FOR ERECTION. PROVIDE ADDITIONAL BRIDGING AS REQUIRED FOR WIND UPLIFT. NET UPLIFT = 385 PSF WITHIN 20' OF EDGES AND PEAKS, 26.7 PSF ALL OTHER AREAS. DESIGN JOISTS FOR LOAD DIAGRAMS AND LOADING INDICATED ON THE PLANS AS A MINIMUM. PROVIDE EXTENDED JOIST SEATS DESIGNED FOR THE LOADS INDICATED. CALCULATIONS FOR STEEL JOIST AND JOIST GIRDERS SHALL BE STAMPED BY AN ALASKA-LICENSED ENGINEER. THE DESIGN SHALL MEET OR EXCEED THE FOLLOWING DEFLECTION CRITERIA:
JOIST AND JOIST GIRDERS LIVE LOAD DEFLECTION, $L/360$
TOTAL LOAD DEFLECTION, $L/240$

COLD FORMED STEEL FRAMING

ALL LIGHT GAUGE MEMBERS SHALL BE MANUFACTURED BY A S91A MEMBER COMPANY OR APPROVED EQUAL. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED PER THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. STUDS SHALL BE DESIGNED FOR A $L/360$ DEFLECTION LIMIT.

COLD FORMED STEEL SHALL MEET ASTM A446 OR A653, GRADE D FOR 14 OR 16 GAUGE MEMBERS AND ASTM A446 OR A653 GRADE A FOR 18 GAUGE OR LIGHTER MEMBERS. ALL STUDS, TRACKS AND JOIST SHALL BE GALVANIZED AND HAVE A MINIMUM G-60 COATING.

USE 16 GAUGE MEMBERS (MINIMUM) FOR TOP AND BOTTOM PLATES.

FASTENERS SHALL BE A MINIMUM #8 SELF DRILLING SCREWS. PROVIDE 2 SCREWS EACH END OF EACH STUD TO TRACK, TYPICAL. FASTENERS FOR CONNECTING LIGHT GAUGE MEMBERS TO CONCRETE SHALL BE BY 1/4"x1/2" POWER ACTUATED FASTENERS, AND CONNECTING TO STEEL WITH 1/4" POWER ACTUATED FASTENERS OR WELDING.

PROVIDE ALL ACCESSORIES INCLUDING TRACK CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ITEMS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. INSTALL ALL ITEMS RECOMMENDED BY THE MANUFACTURER.

WOOD PRODUCTS

WALL SHEATHING: USE APA RATED SHEATHING. PROTECT SHEATHING FROM THE WEATHER UNLESS IT IS RATED FOR EXTERIOR EXPOSURE. PROVIDE FRAMING OR BLOCKING BEHIND ALL PANEL EDGES. PROVIDE MINIMUM 3/8" FROM EDGE TO CENTER OF NAIL. DRIVE NAILS FLUSH, DO NOT OVERDRIVE FASTENERS. PROVIDE FASTENERS PER SHEARWALL SCHEDULE.

| ABBREVIATIONS | |
|---------------|---------------------------------|
| E.W. | - EACH WAY |
| IBC | - INTERNATIONAL BUILDING CODE |
| I.S. | - INSIDE |
| O.S. | - OUTSIDE |
| F.O.B. | - FACE OF STUD |
| HDG | - HOT DIP GALVANIZED |
| MFR | - MANUFACTURER |
| PAF | - POWER ACTUATED FASTENERS |
| FFA | - FAST FROM ABOVE |
| PEMB | - PRE-ENGINEERED METAL BUILDING |
| SIM | - SIMILAR TO |
| SIP | - STRUCTURAL INSULATED PANELS |
| TYP. | - TYPICAL |
| UNO | - UNLESS NOTED OTHERWISE |
| W.T.E. | - WITH THE EXCEPTION |
| WWM | - WELDED WIRE MESH |

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
VALDEZ, ALASKA

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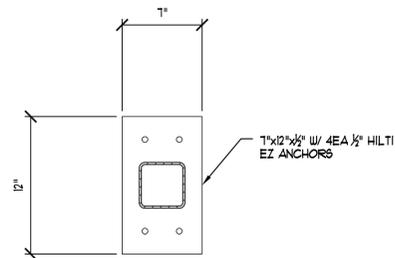
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STRUCTURAL NOTES & ABBREVIATIONS

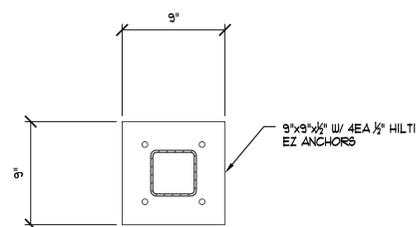
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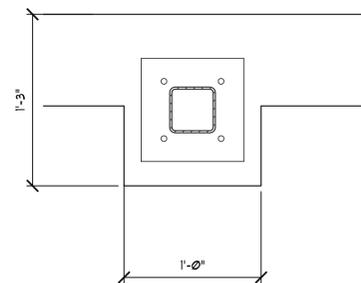
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4 Base Plate 2 Detail
Scale: 1/2" = 1'-0"



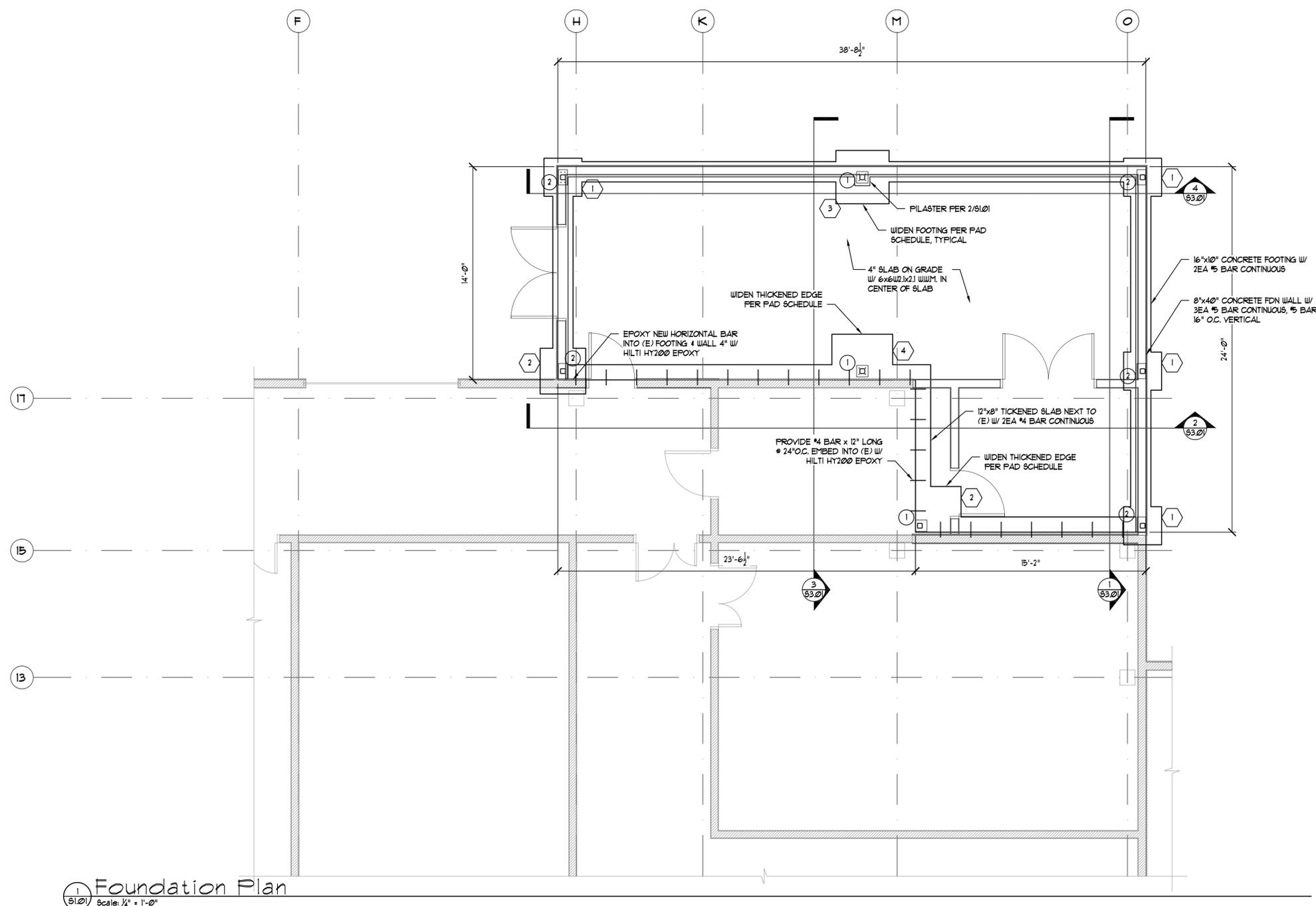
3 Base Plate 1 Detail
Scale: 1/2" = 1'-0"



2 Pilaster Detail
Scale: 3/4" = 1'-0"

| Base Plate Schedule | |
|---------------------|---|
| TYPE | Base Plate Size |
| 1 | 9"x9" (OFFSET AS NEEDED) W/ 4EA 1/2" HILTI EZ ANCHORS |
| 2 | 1"x12" x 1/2" W/ 4EA 1/2" HILTI EZ ANCHORS |

| Pad Schedule | | | |
|--------------|---------------|---------------|---------------------|
| TYPE | Pad SIZE | Pad THICKNESS | Pad REINFORCEMENT |
| 1 | 2'-6" SQUARE | 12" | 2ea #5 BAR EACH WAY |
| 2 | 3'-0" SQUARE | 12" | 3ea #5 BAR EACH WAY |
| 3 | 3'-6" SQUARE | 12" | 3ea #5 BAR EACH WAY |
| 4 | 4'-0" x 3'-0" | 12" | #5 BAR @ 12" O.C. |



1 Foundation Plan
Scale: 1/4" = 1'-0"

CITY OF VALDEZ, ALASKA
CONVENT TO THE INTERIOR

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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
VALDEZ, ALASKA

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SHEET CONTENTS
FOUNDATION PLAN

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S1.01



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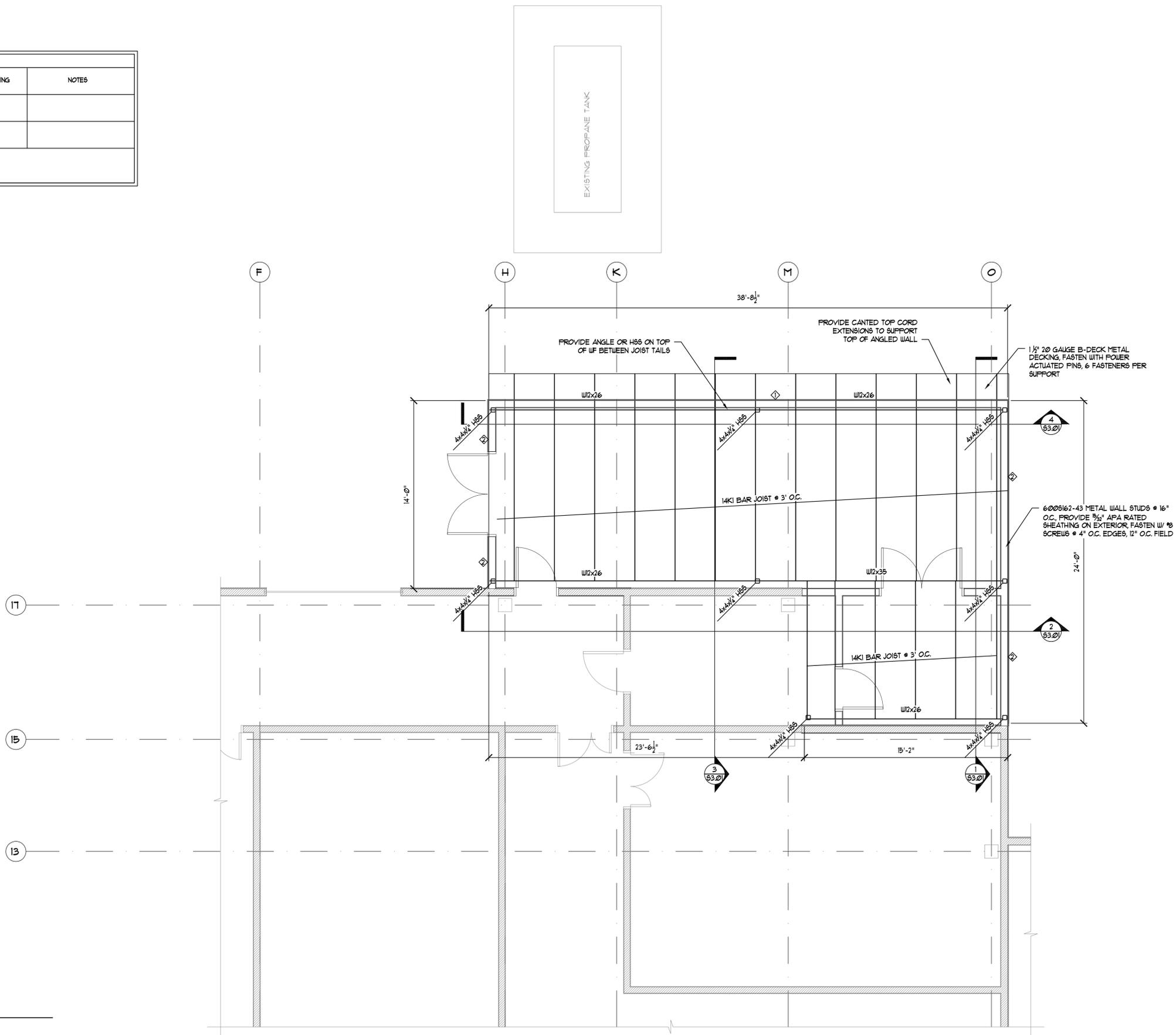
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SHEET CONTENTS
 ROOF FRAMING PLAN

DRAWING NO.
 S2.01

| SHEARWALL SCHEDULE | | | | | |
|--------------------|-------------------|-------|--------------|----------------------|---------------|
| SHEAR WALL | PLYWOOD THICKNESS | SIDES | PLF REQUIRED | EDGE NAILS & SPACING | FIELD SPACING |
| ◇ | 15/32 | 1 | 455 | 10 SCREWS @ 6" O.C. | 12" O.C. |
| ◇ | 15/32 | 1 | 1370 | 10 SCREWS @ 3" O.C. | 12" O.C. |

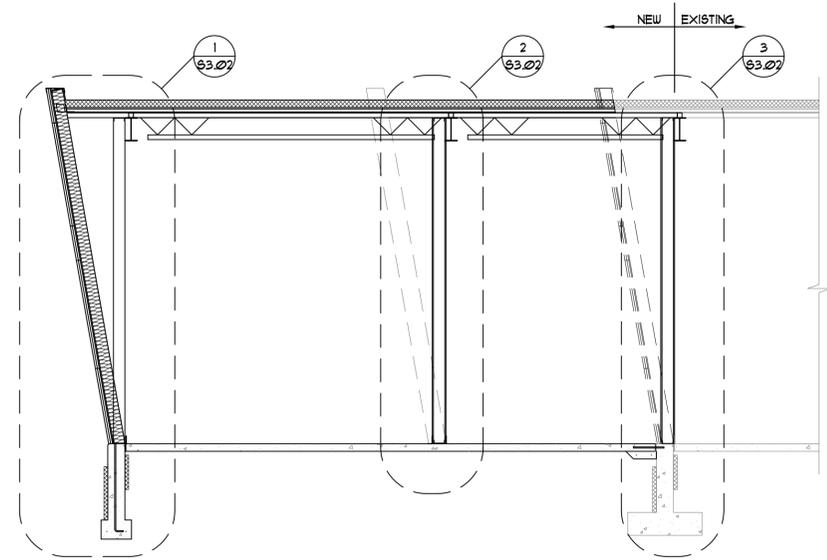
SHEARWALL NOTES
 - PROVIDE BACKING @ ALL UNSUPPORTED EDGES W/ 1/2 GAUGE STRAPPING OR 43 MIL STUDS.



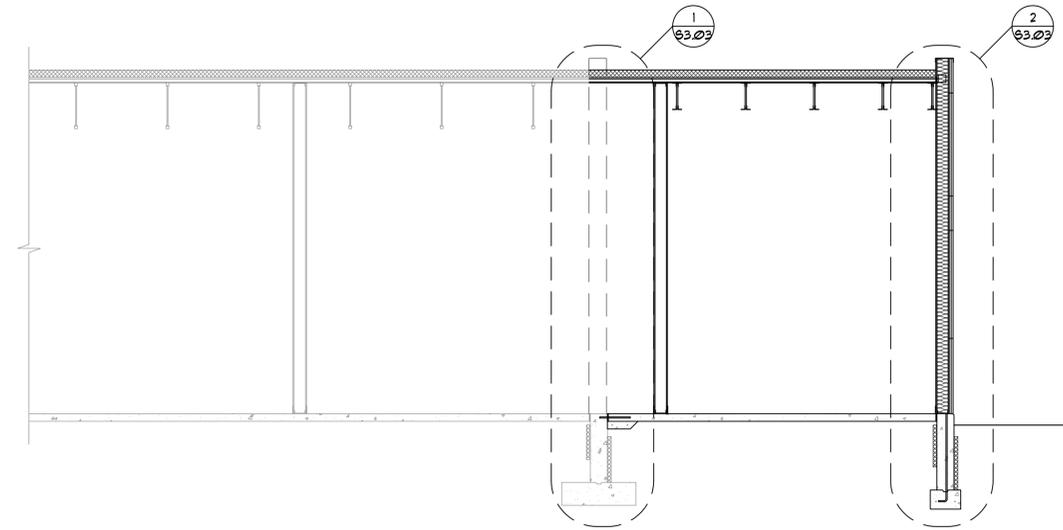
NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

Roof Framing Plan
 Scale: 1/4" = 1'-0"

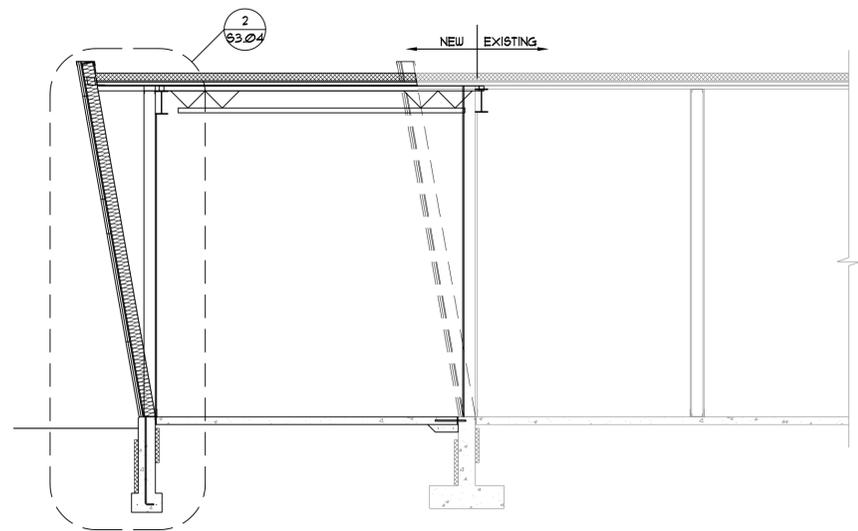
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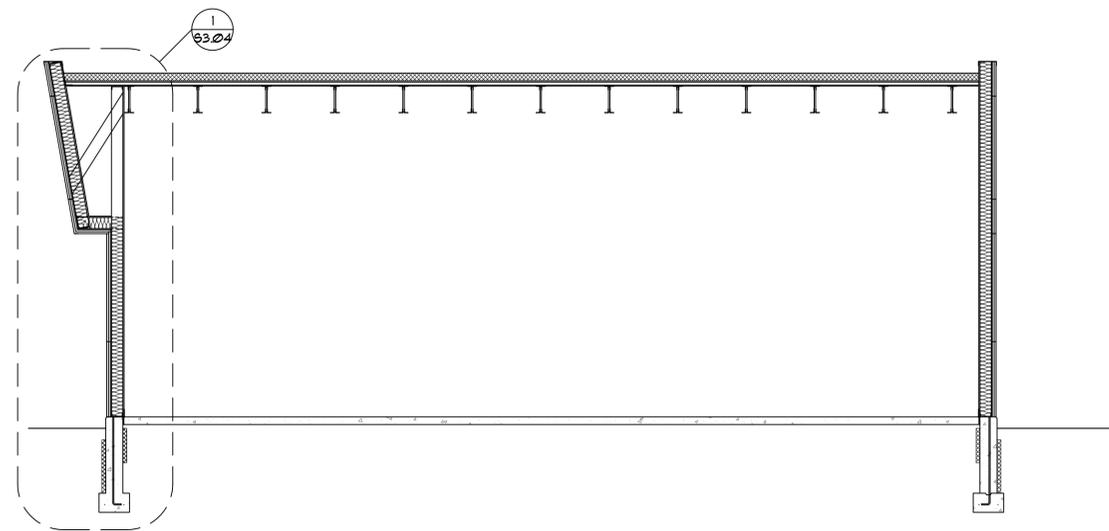
1 Building Section
Scale: 1/4" = 1'-0"



2 Building Section
Scale: 1/4" = 1'-0"



3 Building Section
Scale: 1/4" = 1'-0"



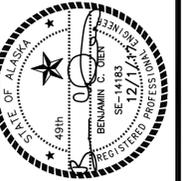
4 Building Section
Scale: 1/4" = 1'-0"



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**VALDEZ REGIONAL
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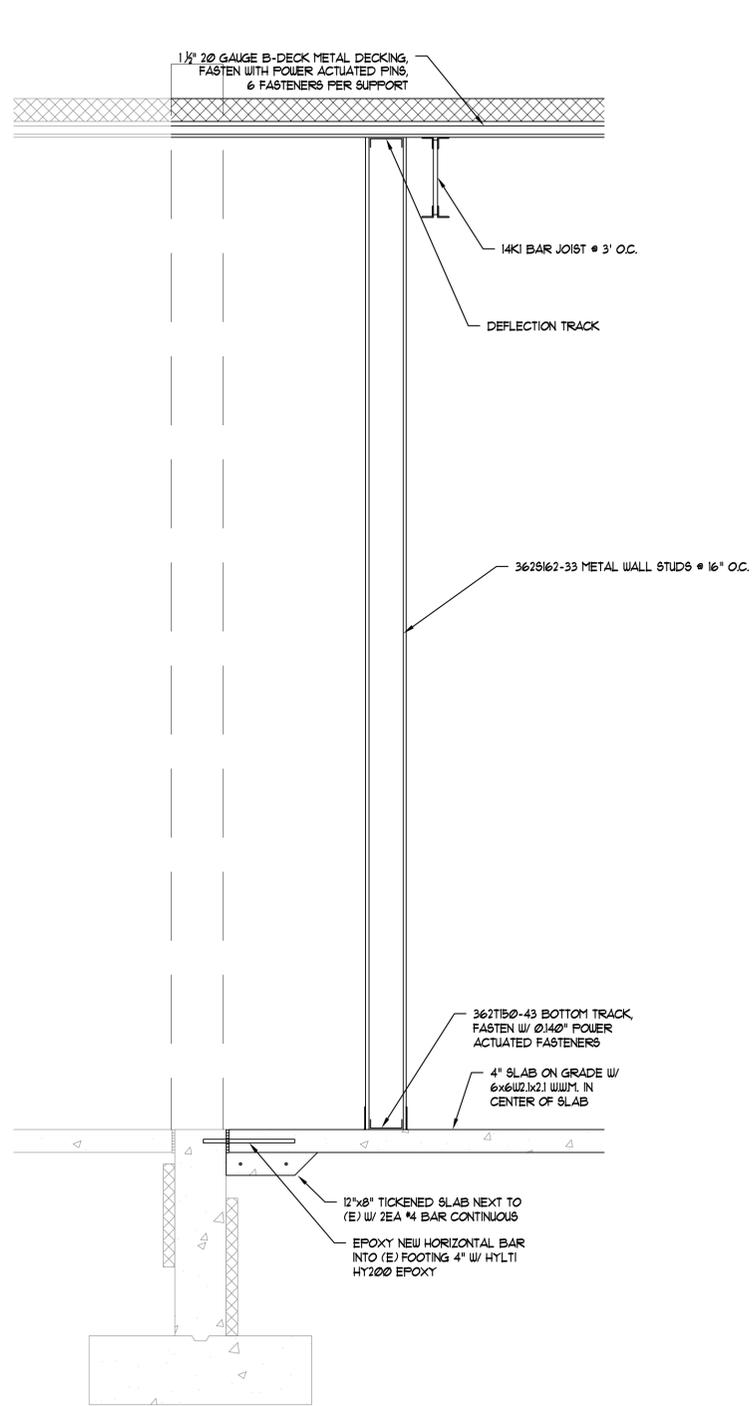
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BUILDING SECTIONS

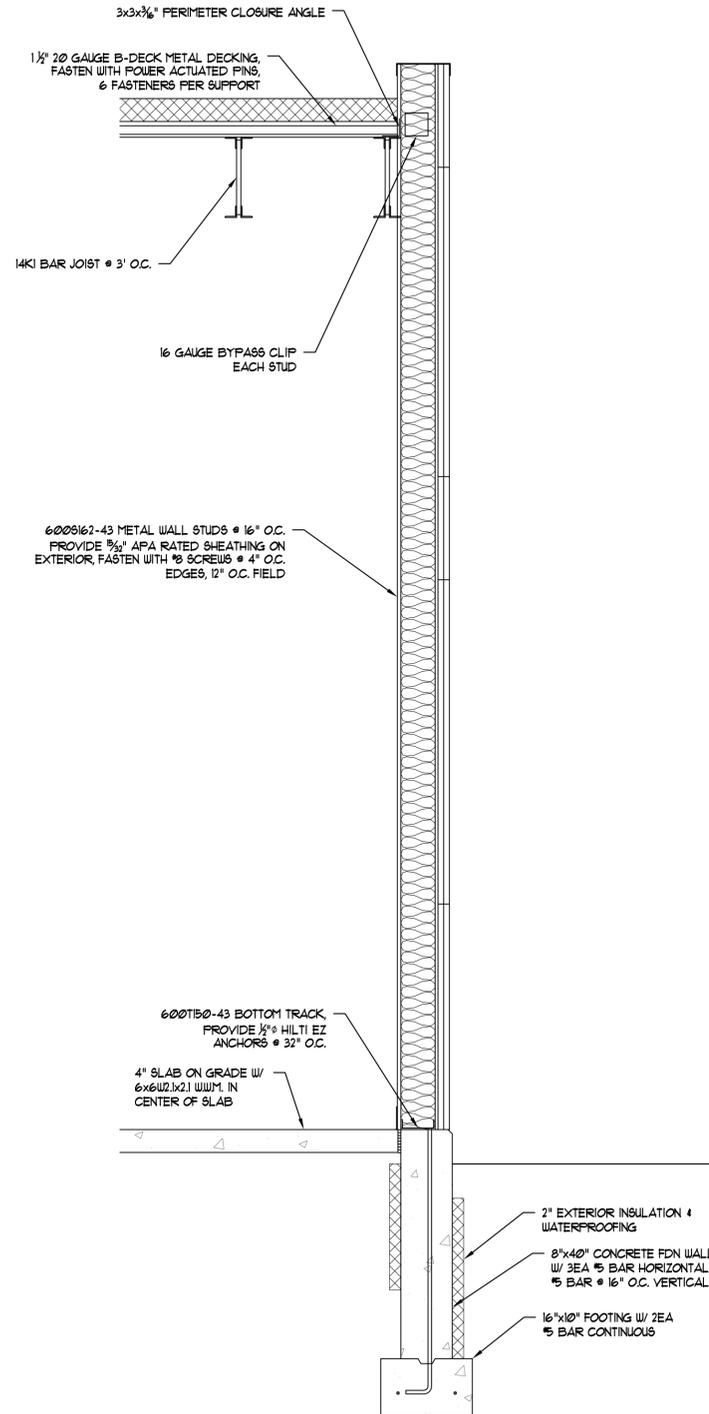
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1 Wall Section
Scale: 3/4" = 1'-0"



2 Wall Section
Scale: 3/4" = 1'-0"



**VALDEZ REGIONAL
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O2 GENERATOR ADDITION**

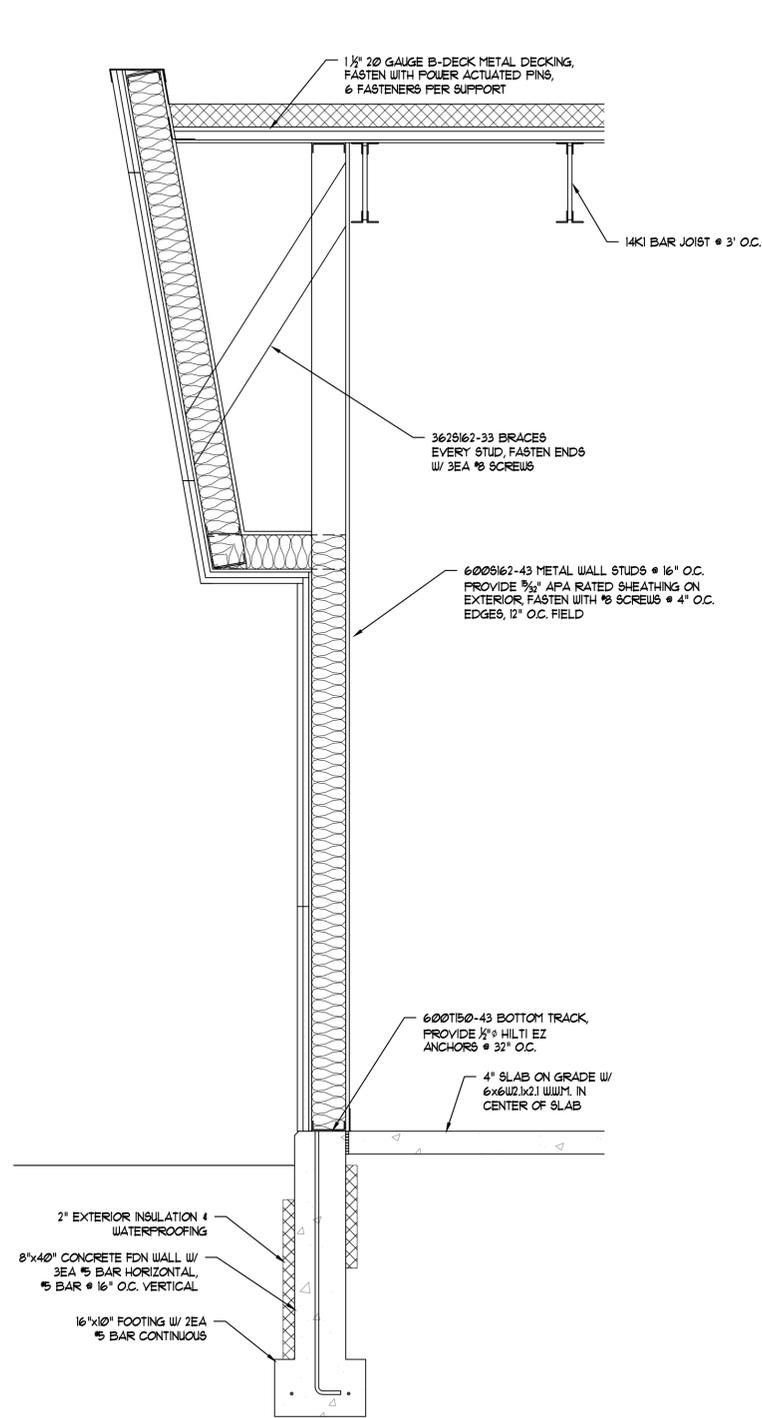
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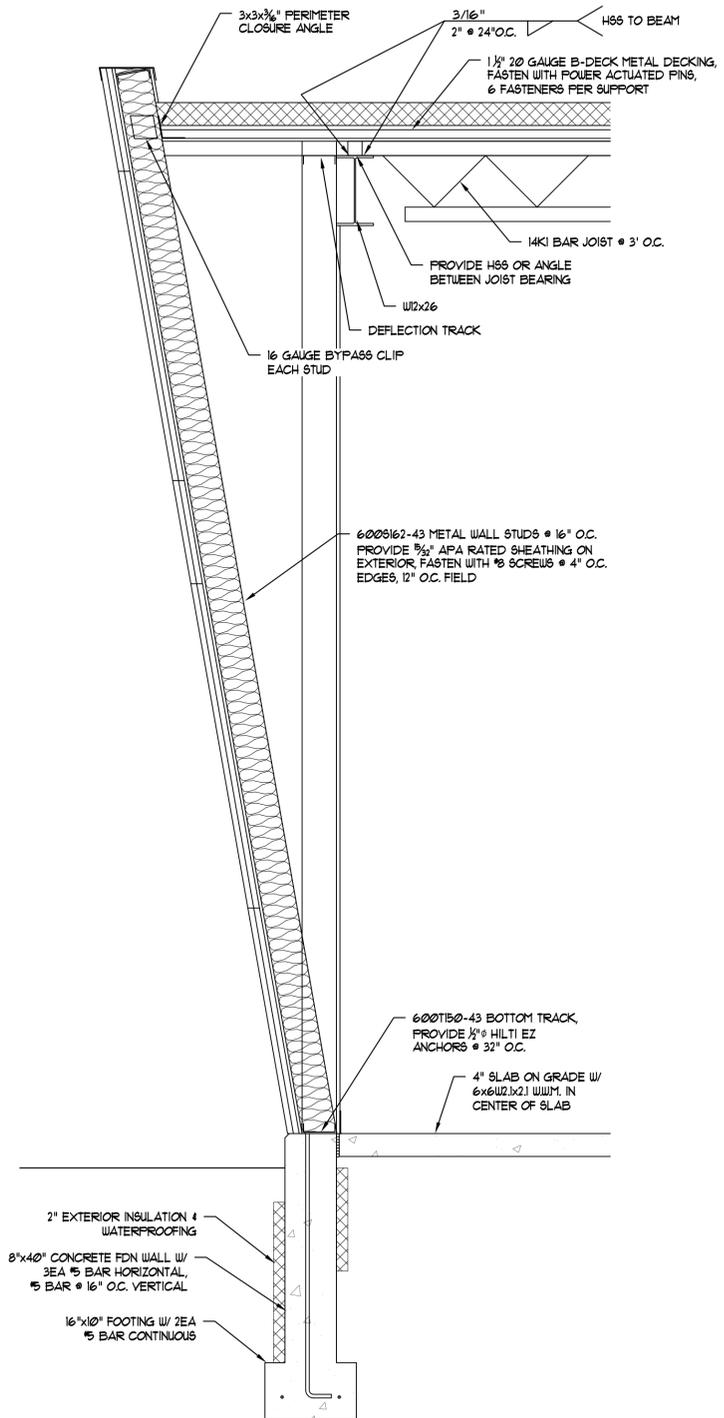
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WALL SECTIONS

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S3.03

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1 Wall Section
Scale: 3/4" = 1'-0"



2 Wall Section
Scale: 3/4" = 1'-0"



VALDEZ REGIONAL
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| CHECKED BCO | JOB NO. 13363 |

SHEET CONTENTS

WALL SECTIONS

DRAWING NO.

S3.04

MECHANICAL SPECIFICATIONS

GENERAL PROVISIONS

SCOPE OF WORK

THIS PROJECT IS GENERALLY DESCRIBED AS COMPRISING OF RELOCATING THE OXYGEN GENERATOR SYSTEM TO A NEW ADDITION AT THE PROVIDENCE VALDEZ MEDICAL CENTER. IT INCLUDES THE ADDITION OF EQUIPMENT AND SYSTEMS TO SERVE THE HEATING, VENTILATION, AIR CONDITIONING, PIPING, PLUMBING, FIRE PROTECTION AND CONTROL FUNCTIONS IN THE FACILITY.

INTENT OF DRAWINGS AND SPECIFICATIONS

THE INTENT OF THE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO INCLUDE ALL WORK NECESSARY FOR COMPLETE MECHANICAL SYSTEMS, TESTED AND READY FOR OPERATION. BY SUBMITTING A PROPOSAL, THE CONTRACTOR REPRESENTS THEY HAVE MADE A THOROUGH EXAMINATION OF THE SITE, OF THE WORK AND ALL EXISTING CONDITIONS AND LIMITATIONS, AND THEY HAVE DETERMINED THE DOCUMENTS ARE ADEQUATE AND SATISFACTORY FOR THE COMPLETION OF THE WORK.

MECHANICAL DRAWINGS DO NOT ATTEMPT TO SHOW ALL ASPECTS OF BUILDING CONSTRUCTION, WHICH WILL AFFECT THE INSTALLATION OF MECHANICAL SYSTEMS. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION.

CODES AND STANDARDS

PROVIDE ALL WORK IN COMPLIANCE WITH APPLICABLE LOCAL CODES AND STANDARDS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. 2012 NFPA 99
2. 2012 UNIFORM PLUMBING CODE
3. 2012 INTERNATIONAL MECHANICAL CODE
4. 2012 INTERNATIONAL FUEL GAS CODE
5. 2012 INTERNATIONAL FIRE CODE
6. 2012 INTERNATIONAL BUILDING CODE
7. 2012 INTERNATIONAL ENERGY CONSERVATION CODE
8. REQUIREMENTS OF OSHA AND EPA
9. NATIONAL FIRE PROTECTION ASSOCIATION CODES, LATEST EDITIONS
10. ASME CODES FOR BOILER AND PRESSURE VESSELS, LATEST EDITIONS
11. SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITIONS
12. ALL LOCAL AND STATE AMENDMENTS
13. REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTIONAL AUTHORITY OVER INSTALLATION

COORDINATION AND SCHEDULING

PROVIDE ALL ADMINISTRATIVE AND SUPERVISORY REQUIREMENTS FOR THE COORDINATION AND SCHEDULING OF THE WORK. THE MECHANICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHER CONTRACTORS, SUBCONTRACTORS, SUPPLIERS AND THE OWNER.

REVIEW ALL PROJECT DRAWINGS INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS.

PLAN AND EXECUTE WORK IN COOPERATION WITH ALL OTHER TRADES. EVERY REASONABLE EFFORT SHALL BE MADE TO PROVIDE ALL CONCERNED WITH TIMELY NOTICE OF WORK AFFECTING OTHER TRADES TO PREVENT CONFLICTS OR INTERFERENCE AS TO SPACE REQUIREMENTS, DIMENSIONS, OPENINGS, BLOCK-OUTS, SLEEVING OR OTHER MATTERS WHICH WILL CAUSE DELAYS OR NECESSITATE WORK-AROUND METHODS.

CONTRACTOR RESPONSIBILITY

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN COMPLETE CONTROL OF THE CONSTRUCTED PROJECT, SUCH THAT THE COMPLETE PROJECT SHALL BE FREE OF DEFECTS AND IN CONFORMANCE WITH THE PROJECT DOCUMENTS.

THE CONTRACTOR SHALL UTILIZE PROCEDURES THAT ASSURE QUALITY CONSTRUCTION THROUGHOUT, WITH USE OF THE BEST INDUSTRY STANDARDS FOR THE SPECIFIC PROCESS USED. REMOVE AND REPLACE ANY WORK FOUND DEFECTIVE OR NOT COMPLYING WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.

WORKMANSHIP

ALL WORK TO BE DONE BY WORKMEN SKILLED IN AND REGULARLY EMPLOYED AT THAT TRADE.

PROVIDE ALL MATERIALS, PRODUCTS AND EQUIPMENT IN STRICT ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES. THEY MUST BE OF FIRST QUALITY AND IN LINE WITH THE BEST CURRENT PRACTICES.

CUTTING AND PATCHING SHALL BE KEPT TO A MINIMUM. ALL PATCHING TO MATCH EXISTING FINISH WORK. DO NOT CUT STRUCTURAL MEMBERS.

CONTRACTOR SHALL FIELD VERIFY PRIOR TO BIDDING. VERIFY SPACE AVAILABILITY PRIOR TO FABRICATION AND INSTALLATION OF ANY WORK. VERIFY EXACT DISTANCES BETWEEN POINTS SHOWN ON DRAWINGS BY ACTUAL MEASUREMENT AT SITE.

REMOVE ALL WASTE MATERIALS AND RUBBISH FROM THE SITE, THOROUGHLY CLEAN ALL SURFACES OF WORK, AND LEAVE READY FOR OCCUPANCY BY THE OWNER. THE OWNER WILL VERIFY THE COMPLETION AND/OR CORRECTION OF THE ITEMS ABOVE.

SUBMITTALS

SUBMIT TECHNICAL DATA AND REQUIRED INFORMATION ON EQUIPMENT AND MATERIALS AS FOLLOWS:

1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA FOR THE ITEMS LISTED IN THE INDIVIDUAL SPECIFICATION SECTIONS. PRODUCT DATA SHALL DEMONSTRATE COMPLIANCE WITH ALL SPECIFIED FEATURES AND REQUIREMENTS.
2. SHOP DRAWINGS: SUBMIT CONTRACTOR PREPARED DRAWINGS OF CONTRACTOR FABRICATED MECHANICAL SYSTEMS. DRAWINGS SHALL BE PREPARED AT 1/4" SCALE USING COMPUTER AIDED SOFTWARE UNLESS INDICATED OTHERWISE. DRAWINGS SHALL SHOW EXACT LOCATION OF EQUIPMENT, PIPING AND DUCTWORK, EACH SECTION OF SHOP FABRICATED DUCT OR PIPE AND LOCATION OF FIELD JOINTS, SUPPORTS AND BUILDING ATTACHMENTS.
3. REPORTS AND CERTIFICATES: INDICATE AND INTERPRET TEST RESULTS FOR COMPLIANCE WITH PERFORMANCE REQUIREMENTS. PROVIDE PERFORMANCE CERTIFICATES.
4. EQUIPMENT SEISMIC RESTRAINT: CONTRACTOR TO PROVIDE STRUCTURAL AND SEISMIC CALCULATIONS PLUS FASTENING DETAILS FOR ALL APPLICABLE EQUIPMENT TO INCLUDE ENGINEER'S STAMP AND SIGNATURE, FOR STRUCTURAL REVIEW ON A DEFERRED SUBMITTAL BASIS.

PERMITS, INSPECTIONS AND FEES

CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED IN CONNECTION WITH THIS INSTALLATION. THE CONTRACTOR SHALL PRESENT THE OWNER WITH PROPERLY SIGNED CERTIFICATES OF FINAL INSPECTION BEFORE THE WORK WILL BE ACCEPTED.

CONTRACTOR SHALL CALL FOR ALL INSPECTIONS BY LOCAL BUILDING OFFICIALS WHEN THEY BECOME DUE, AND SHALL NOT COVER ANY WORK UNTIL APPROVED BY THESE GOVERNING AUTHORITIES.

CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR WATER, STEAM, GAS AND DRAINAGE SERVICES, ETC., ASSOCIATED WITH THE WORK AND INCLUDE REQUIRED PAYMENTS FOR METERS, PIPING, SERVICES, CONNECTION CHARGES AND MATERIALS FURNISHED AND INSTALLED BY UTILITY COMPANIES. WORK AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH RULES OF RESPECTIVE AUTHORITIES.

FINAL CHECKOUT AND PROJECT CLOSEOUT

THE OWNER HAS FULL AUTHORITY TO SEE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

THE OWNER WILL REQUIRE A COMPLETE FINAL INSPECTION OF ALL PARTS OF THE WORK. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: PLUMBING, PIPING, EQUIPMENT, DUCTWORK, WIRING, AND FINISH WORK.

THE OWNER WILL REQUIRE A WRITTEN GUARANTY THAT ALL MATERIALS AND WORKMANSHIP THAT PROVE DEFECTIVE WITHIN ONE YEAR AFTER DATE OF ACCEPTANCE WILL BE REPLACED.

OPERATION AND MAINTENANCE MANUAL

INCLUDE WARRANTY CERTIFICATES FOR ALL EQUIPMENT WHERE EXTENDED WARRANTIES ARE EITHER OFFERED OR REQUIRED; PROVIDE SUPPLIER CONTACT INFORMATION.

MECHANICAL SPECIFICATIONS CONT'D

BASIC MATERIALS & METHODS

BASIC MATERIALS

1. HEATING SYSTEM: COPPER PIPE: TYPE L, ASTM B88, WITH SWEAT FITTINGS AND 430 SILVER SOLDER JOINTS.
2. PROPANE GAS PIPE: BLACK STEEL, ASTM A120 OR A53 GRADE A OR B, STANDARD WEIGHT. FLEXIBLE CONNECTORS AT ALL OUTSIDE GRADE PENETRATIONS, ANSI Z21.24 COPPER ALLOY. STEEL FITTINGS.
3. LOW PRESSURE (7" WC), NPS 3/4 TO 2 INCH – STEEL PIPE WITH THREADED JOINTS AND MALLEABLE-IRON THREADED FITTINGS.
4. LOW PRESSURE MEDICAL GAS PIPE AND FITTINGS: COPPER TUBING; TYPE L, HARD-DRAWN; FITTINGS, LONG RADIUS WROUGHT COPPER ALLOY, AND SILVER BRAZING OF ALL FITTINGS AND JOINTS. COMPLY WITH NFPA 99. OXYGEN AND MEDICAL AIR PIPING SHALL BE PRE-CLEANED AND CAPPED BEFORE USE. FACTORY-CLEANED AND SEALED PIPING SHALL HAVE ENDS KEPT SEALED UNTIL IMMEDIATELY READY FOR USE. PROVIDE TEMPORARY CAPS FOR ALL PIPES AND STATIONS DURING CONSTRUCTION.
5. HIGH PRESSURE OXYGEN PIPING: STAINLESS STEEL TUBING WITH SWAGLOCK FITTINGS, 3000 PSI PRESSURE RATING.
6. VALVES: SELECT VALVES OF THE BEST TYPE AND QUALITY SUITED FOR THE SPECIFIC SERVICE AND PIPING SYSTEM USED. MINIMUM WORKING PRESSURE 150 PSIG W.O.G.
7. BALANCING VALVES: CIRCUIT SETTER TYPE, DUCTILE IRON BODY WITH BRONZE DISC, SUITABLE FOR FLOW MEASUREMENT, FLOW BALANCING, AND TIGHT SHUTOFF.
8. AIR VENTS: AUTOMATIC – FLOAT OPERATED TYPE, 75 PSIG WORKING PRESSURE. MANUAL – DISC-TYPE WITH BUILT IN CHECK VALVE, 50 PSIG WORKING PRESSURE.
9. AUTOMATIC AIR VENTS AT HIGH POINTS OF UNIT HEATERS.
10. DIELECTRIC UNIONS: PROVIDE AT EACH JOINT BETWEEN DISSIMILAR-METALS.
11. ESCUTCHEON PLATES: SPRING CLIP TYPE AT WALLS AND CEILINGS.
12. PIPE INSULATION: FIBERGLASS PIPE INSULATION WITH FACTORY APPLIED ALL-SERVICE JACKET; FACTORY PRE-MOLDED PVC FITTING AND VALVE COVERS. THERMAL CONDUCTIVITY K=0.24 AT 100°F MEAN TEMPERATURE. THICKNESS: 1.0-INCH FOR HEATING SUPPLY AND RETURN SYSTEM AND VENTS IN NON-HEATED AREAS. PROVIDE A 20 GAUGE SHEET METAL SLEEVE WITH MINERAL WOOL PACKING, FULL DEPTH, AT ALL WALL PENETRATIONS.
13. PIPE SUPPORTS: SUPPORT SINGLE PIPES WITH INDIVIDUAL HANGERS OR PROVIDE MULTIPLE PIPE TRAPEZE HANGERS. INSTALL COLD WATER PIPE HANGERS ON THE OUTSIDE OF THE INSULATION. SUPPORT FROM BEAMS USING APPROPRIATE BEAM CLAMPS AND HANGER RODS. SUPPORT HORIZONTAL PIPING RUNS AT FIVE FEET ON CENTERS AND AT CHANGES OF DIRECTION. CONFORM TO IMC AND UPC REQUIREMENTS.
14. DUCTWORK: ALL DUCTWORK SHALL BE GALVANIZED STEEL, FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2" W.G. PRESSURE CLASS FOR LOW PRESSURE SYSTEMS. DUCT SEALER SHALL BE UL LABELED DUST SEALER AS MANUFACTURED BY 3M COMPANY OR EQUAL. EXPOSED DUCT FITTINGS SHALL BE SEALED WITH HARDCAST DUCT SEALANT TAPE APPLIED IN A NEAT AND UNIFORM STYLE. HARDCAST TAPE SHALL BE SUITABLE FOR PAINTING (PAINTING BY OTHERS). DUCT FITTINGS SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. DUCT RUNS SHALL COORDINATE WITH WALLS, SUSPENDED CEILINGS, LIGHT FIXTURES, ROOF TRUSSES AND SIMILAR FINISHED WORK. DUCT OPENING SHALL BE COVERED DURING CONSTRUCTION TO PREVENT ENTRANCE OF DUST AND DEBRIS.
15. DUCT INSULATION: ALL OUTSIDE AIR INTAKE DUCTWORK AND EXHAUST DUCTWORK SHALL BE INSULATED WITH A COMMERCIAL GRADE, GLASS FIBER, REINFORCED FOIL FACED DUCT WRAP INSULATION SIMILAR TO OWENS-CORNING TYPE 150, 2" NOMINAL THICKNESS, 1.5# DENSITY, OR APPROVED EQUAL. INSULATION SHALL BE APPLIED TO COVER ALL EXTERIOR SURFACES OF DUCTWORK AND SEALED TIGHTLY TO PREVENT LEAKAGE.
16. PLASTIC PIPE MARKERS: FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PERFORMED TO FIT AROUND PIPE OR PIPE COVERING.
17. VALVE TAGS: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR, MINIMUM 1-1/2 INCHES DIA. METAL TAGS: BRASS WITH STAMPED LETTERS; TAG SIZE, MINIMUM 1-1/2 INCHES DIAMETER WITH SMOOTH EDGES. TAG CHART: TYPEWRITTEN LETTER SIZE LIST OF APPLIED TAGS AND LOCATION IN ANODIZED ALUMINUM FRAME.

ADDITIONAL METHODS

COORDINATE ALL NEW WORK WITH THE CONDUITS, LIGHTS, HANGERS, STRUCTURAL MEMBERS AND OTHER TRADES.

SUBMIT PROJECT DATA, WARRANTIES, AND O&M DATA FOR REVIEW.

SEE SCHEDULES FOR EQUIPMENT REQUIREMENTS AND SPECIFICATIONS.

INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSTALL ONLY PRODUCTS SPECIFICALLY DESIGNED AND APPROVED FOR THE TYPE OF OPERATION OR SERVICE.

TESTING & CLEANING

TEST THE HEATING WATER SYSTEMS AT 100 PSI WITH NO PRESSURE DROP OVER A FOUR HOUR PERIOD, WITH SYSTEM STABILIZED AT DESIGN TEMPERATURE. OBSERVE SYSTEM FOR LEAKS, FAULTY CIRCULATION, EXPANSION AND CONTRACTION, AND REPAIR ANY DEFICIENCIES.

PRESSURE FLUSH THE HEATING PIPING TO REMOVE IRON OXIDES AND MILL SCALE FROM THE SYSTEM. FLUSH THE PIPING WITH TRISODIUM PHOSPHATE SOLUTION, 1 POUND FOR EACH 50 GALLONS OF WATER WHICH SHALL BE CIRCULATED FOR FOUR HOURS, THEN DRAINED AND FLUSHED WITH CLEAN WATER. REPEAT THIS PROCESS UNTIL THE SYSTEM IS CLEAN. EXERCISE PROPER CARE DURING CLEANING AND FLUSHING OF SYSTEM TO ENSURE NO DAMAGE IS DONE TO ANY EQUIPMENT, VALVES, OR FITTINGS.

BALANCING & STARTUP

AN INDEPENDENT AIR BALANCING COMPANY WILL PERFORM THE AIR BALANCING OF THE COMPLETE HEATING AND HVAC SYSTEMS PER THE SMACNA BALANCING AND ADJUSTMENT MANUAL. ADJUST AIR QUANTITIES TO WITHIN 5% OF THE DESIGN VALUES.

TESTING AND BALANCING OF THE HEATING SYSTEM BEGINS BY VERIFYING THE AIR VENTS, AT THE HIGH POINTS OF THE SYSTEM, ARE OPERATING FREELY. ENSURE ALL AIR IS REMOVED FROM THE CIRCULATING SYSTEM. SET TEMPERATURE CONTROLS SO THAT AUTOMATIC VALVES ARE OPEN TO FULL FLOW THROUGH THE HEATING DEVICE. UPON COMPLETION OF FLOW READINGS AND ADJUSTMENTS, MARK ALL SETTINGS AND RECORD ALL DATA. DELIVER THE TESTING METER TO THE OWNER.

COMPLETE AND SUBMIT THE FINAL TESTING AND BALANCING REPORT BEFORE THE PROJECT IS COMPLETE.

FIELD SERVICES: THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE THE SERVICES OF A LOCAL FACTORY AUTHORIZED SERVICE TECHNICIAN TO SUPERVISE ALL PHASES OF THE STARTUP FOR THE BOILERS AND VARIABLE FREQUENCY DRIVES.

CONTROLS

CONTROL REQUIREMENTS

PROVIDE AN EXTENSION OF THE EXISTING DIRECT DIGITAL CONTROL (DDC) AUTOMATIC TEMPERATURE CONTROL SYSTEM TO PROVIDE THE EQUIPMENT CONTROL SEQUENCES NOTED BELOW. THE DDC SYSTEM SHALL BE FULLY INTEGRATED AND INSTALLED AS A COMPLETE PACKAGE OF CONTROLS AND INSTRUMENTATION. THE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL COMPUTER SOFTWARE AND HARDWARE, OPERATOR INPUT/OUTPUT DEVICES, SENSORS AND CONTROLS REQUIRED FOR COMPLETE OPERATION.

PROVIDE SYSTEM VERIFICATION TIME ALLOWANCE FOR SEQUENCE CHECK-OFF, AS WELL AS 10 HOURS TRAINING WITH OWNER.

ALL COMPONENTS USED WILL BE ONLY COMMERCIAL GRADE. PROVIDE ALL EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM.

CONTROL WIRING: PROVIDE ELECTRIC WIRING AND WIRING CONNECTIONS REQUIRED FOR THE INSTALLATION OF THE CONTROL SYSTEM. COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

THE CONTROL CONTRACTOR SHALL WORK WITH AND COORDINATE WITH THE ENGINEER ON THE COMPONENTS, SEQUENCES OF OPERATION AND SYSTEM CAPABILITIES.

SEQUENCE OF OPERATION

MEDICAL GAS ALARM PANELS AND DEVICES

1. TWO EXISTING MEDICAL GAS ALARM PANELS ARE PRESENT, ONE AT THE NURSE STATION AND ONE IN THE ADJACENT MAINTENANCE BUILDING.
2. ADD ALARM POINT AT BOTH PANELS FOR "LOW OXYGEN CONCENTRATION - O2 GENERATOR SYSTEM"
3. ADD ALARM POINT AT BOTH PANELS FOR "EXHAUST FAN FAILURE - MED GAS STORAGE ROOM" AND "EXHAUST FAN FAILURE - O2 GENERATOR ROOM"
4. PROVIDE NEW OXYGEN CONCENTRATION SENSORS IN MED GAS STORAGE ROOM AND OXYGEN GENERATOR ROOM.
5. ADD ALARM POINT AT BOTH PANELS FOR "OXYGEN CONCENTRATION LOW - O2 GENERATOR ROOM"
6. ADD ALARM POINT AT BOTH PANELS FOR "OXYGEN CONCENTRATION HIGH - MED GAS STORAGE ROOM" AND "OXYGEN CONCENTRATION HIGH - O2 GENERATOR ROOM"
7. PROVIDE NEW PERMANENT LABELS AT BOTH PANELS FOR ALL NEW AND EXISTING ALARM DESCRIPTIONS.
8. PROVIDE CONNECTION TO NEW AUDIBLE/VISUAL ALARMS IN THE MED GAS STORAGE ROOM AND OXYGEN GENERATOR ROOM FOR ALARM CONDITIONS.

AIR SYSTEMS

1. EXHAUST FANS: SEE FAN SCHEDULE FOR ADDITIONAL CONTROL INFORMATION.
2. EF-1: FAN SHALL OPERATE CONTINUOUSLY AND CONNECT TO EXISTING DDC SYSTEM.
3. EF-2: FAN SHALL OPERATE CONTINUOUSLY AND CONNECT TO EXISTING DDC SYSTEM.

MISC. HEATING CONTROLS

1. UNIT HEATERS (UH): A ROOM THERMOSTAT SHALL CYCLE THE FAN TO MAINTAIN THE SELECTED SPACE TEMPERATURE. INITIAL SETPOINT SHALL BE 60° F. CONNECT TO EXISTING DDC SYSTEM WITH ROOM TEMPERATURE SETPOINT AND LOW TEMPERATURE ALARM.

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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AECL 1146



VALDEZ REGIONAL
HEALTH CENTER
O2 GENERATOR ADDITION
VALDEZ, ALASKA

| | |
|---------------|--------------------|
| DRAWN EH | DATE 12/1/2017 |
| CHECKED GJ | JOB NO. 2017-95 |

SHEET CONTENTS

SPECIFICATIONS

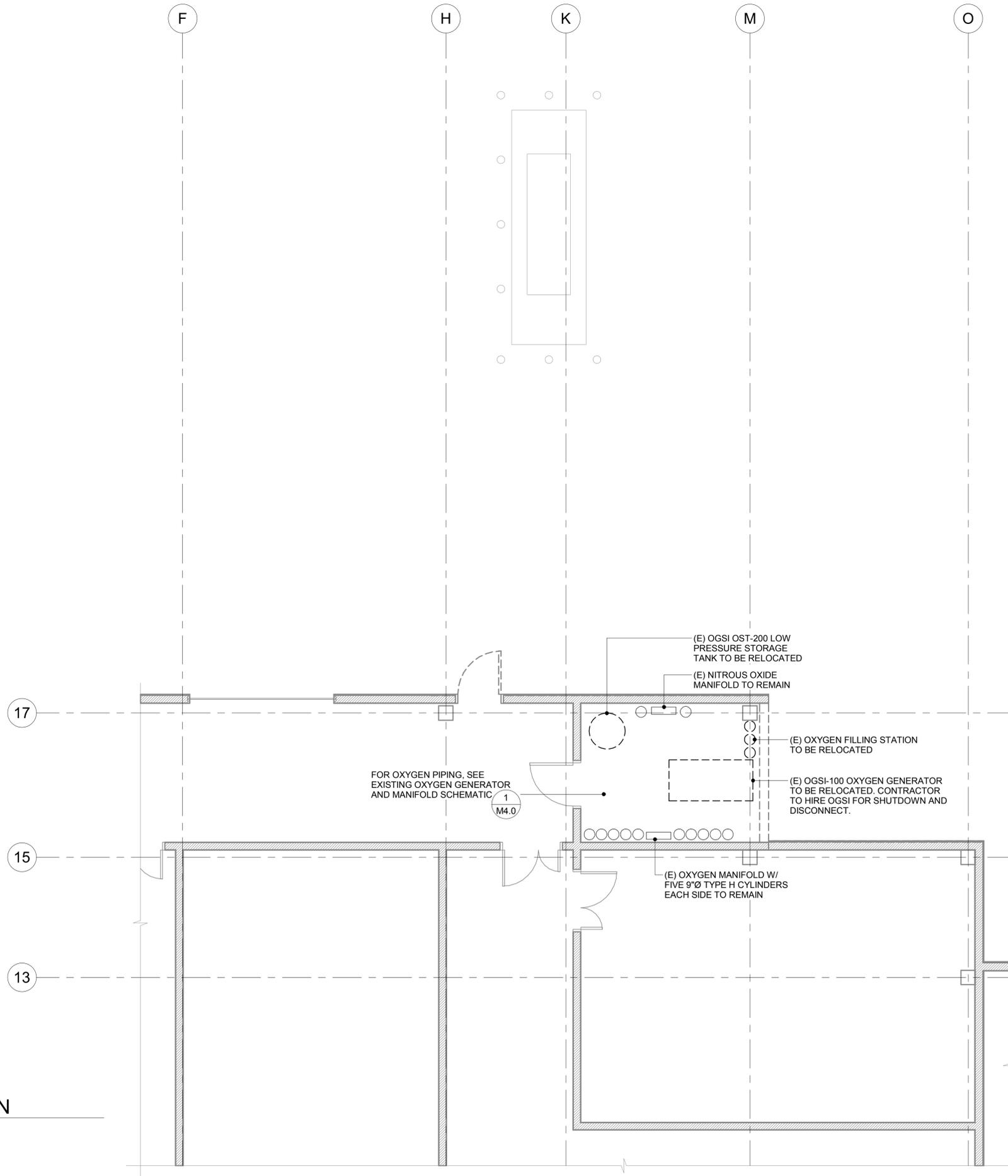
DRAWING NO.

M1.1

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

1 PARTIAL FLOOR PLAN - MEDICAL GAS - DEMOLITION

1/4" = 1'-0"



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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION

VALDEZ, ALASKA

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| DRAWN EH | DATE 12/1/2017 |
| CHECKED GJ | JOB NO. 2017-35 |

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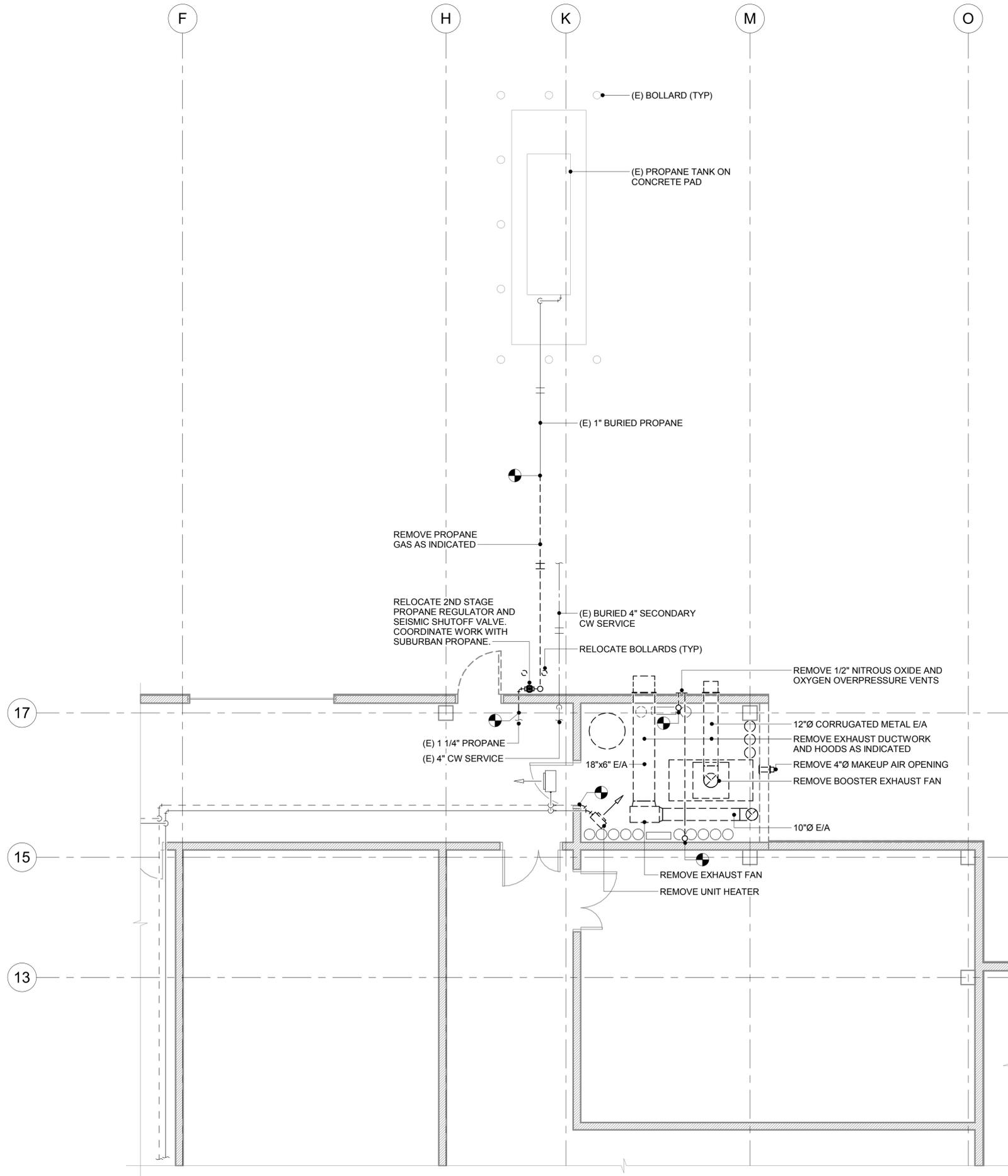
PARTIAL FLOOR PLAN - MEDICAL GAS - DEMOLITION

DRAWING NO.
M2.01

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

1 PARTIAL FLOOR PLAN - HVAC - DEMOLITION

1/4" = 1'-0"



VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION

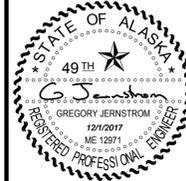
VALDEZ, ALASKA

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| DRAWN EH | DATE 12/1/2017 |
| CHECKED GJ | JOB NO. 2017-35 |

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PARTIAL FLOOR PLAN - HVAC - DEMOLITION

DRAWING NO.
M2.02

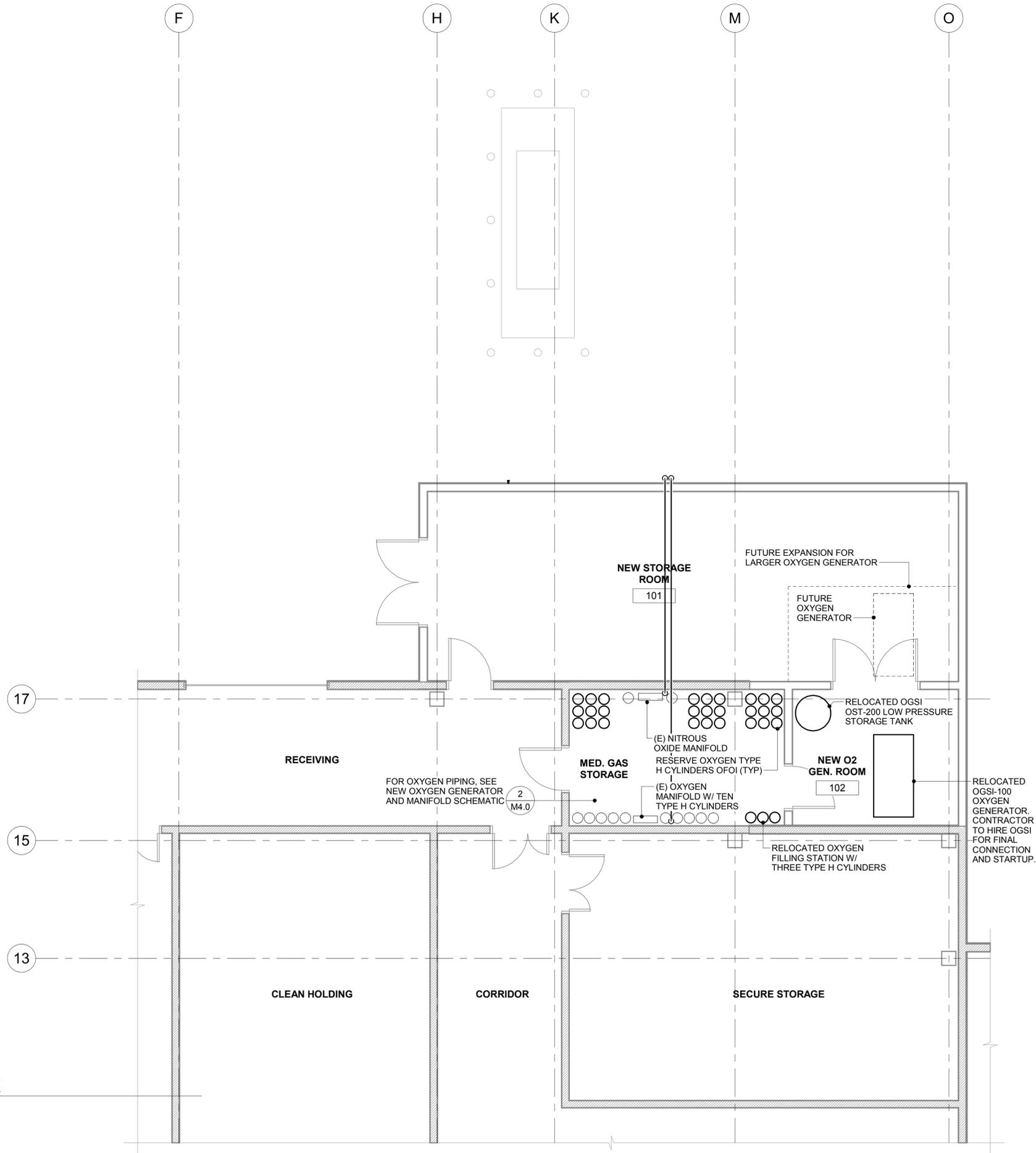


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NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



1 PARTIAL FLOOR PLAN - MEDICAL GAS - NEW WORK
 1/4" = 1'-0"

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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
 VALDEZ, ALASKA

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| CHECKED GJ | JOB NO. 2011-35 |

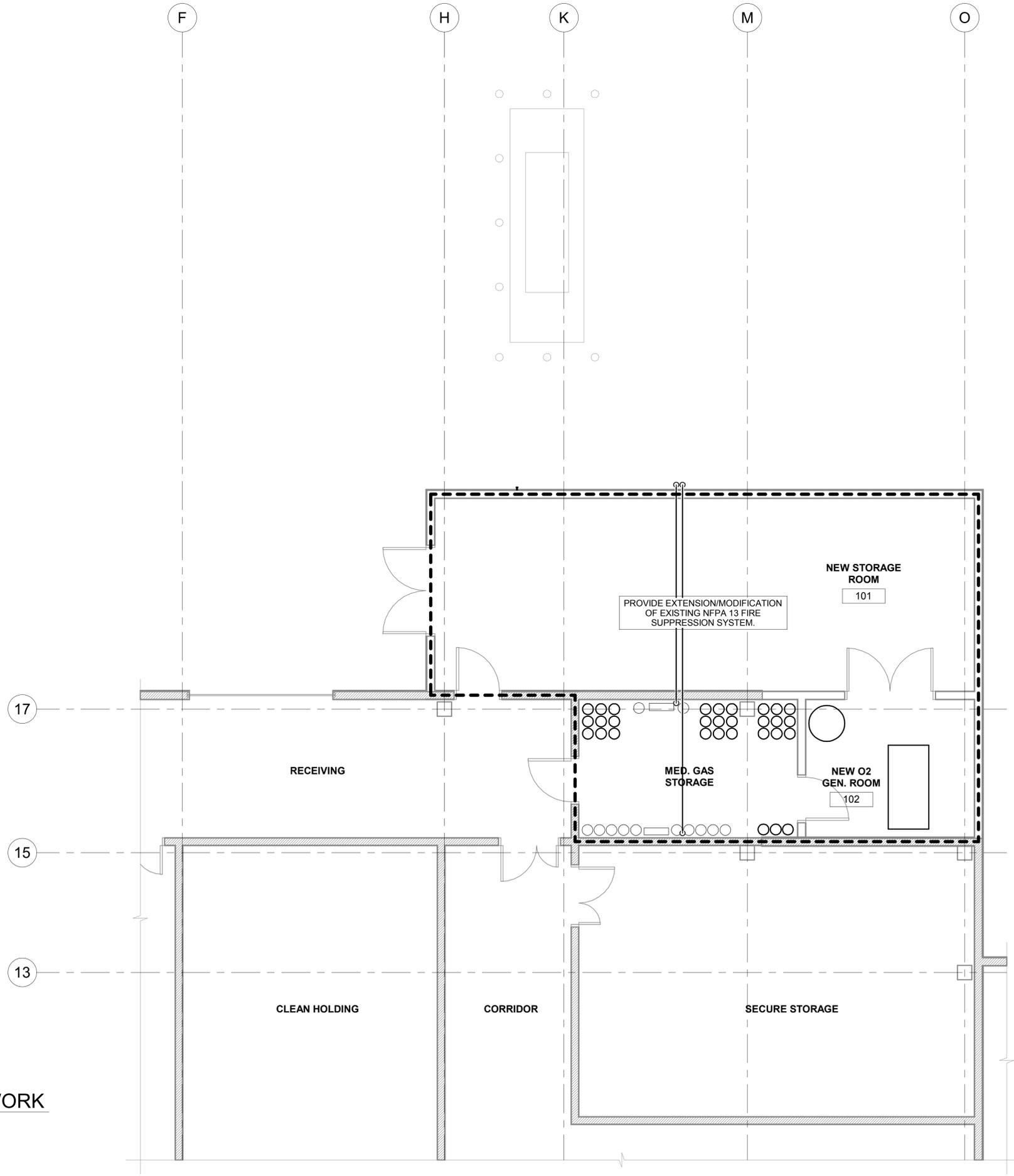
SHEET CONTENTS

PARTIAL FLOOR PLAN - MEDICAL GAS - NEW WORK

DRAWING NO.
M3.01

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

1 PARTIAL FLOOR PLAN - FIRE PROTECTION - NEW WORK
1/4" = 1'-0"



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 O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

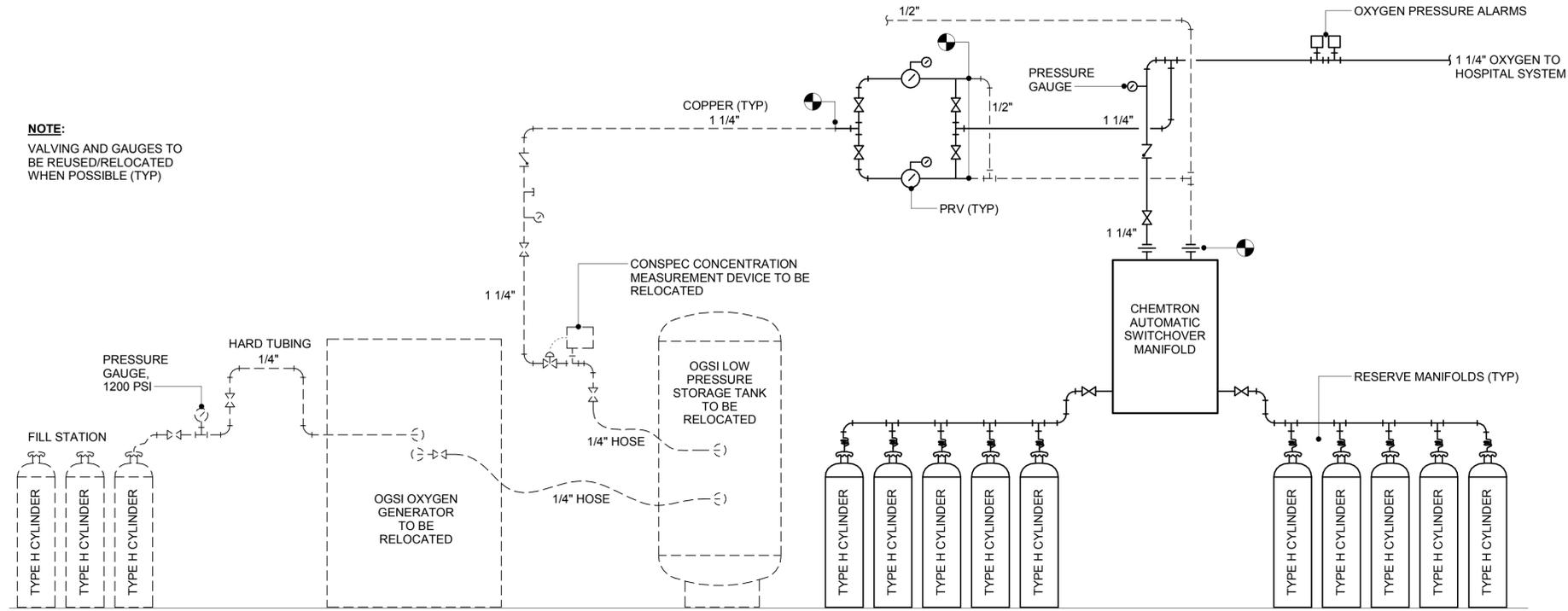
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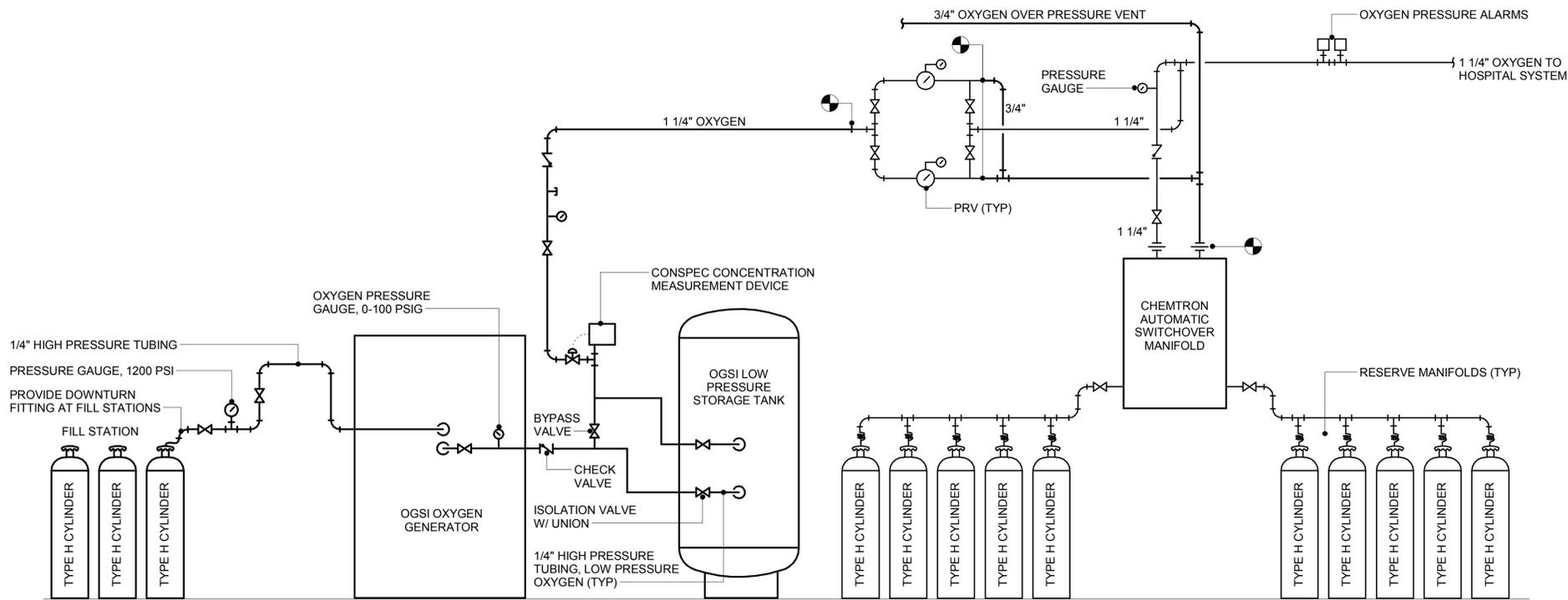
FLOOR PLAN - FIRE PROTECTION - NEW WORK

DRAWING NO.
M3.03

NOTE:
VALVING AND GAUGES TO BE REUSED/RELOCATED WHEN POSSIBLE (TYP)



1 EXISTING OXYGEN GENERATOR AND MANIFOLD SCHEMATIC
NTS



2 NEW OXYGEN GENERATOR AND MANIFOLD SCHEMATIC
NTS

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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**VALDEZ REGIONAL
HEALTH CENTER
O2 GENERATOR ADDITION**
VALDEZ, ALASKA

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| CHECKED GJ | JOB NO. 2017-95 |

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DETAILS

DRAWING NO.
M4.0

ELECTRICAL LEGEND

| LIGHTING | FIRE ALARM | MISCELLANEOUS |
|--|---|---|
| ○ LIGHT FIXTURE – POLE MOUNTED | ☉ SMOKE DETECTOR – PHOTOELECTRIC TYPE W/ STANDARD BASE | ⏏ INFRARED TRANSMITTER |
| □ HAND HOLE | ☉ _P SMOKE DETECTOR – PHOTOELECTRIC TYPE W/ SOUNDER BASE | ⏏Ⓜ CLOCK/SPEAKER COMBINATION UNIT |
| Ⓜ ELECTRIC VAULT | ☉ _{CO} SMOKE DETECTOR – CO COMBO | ⓂⓂ CLOCK OR CLOCK RECEPTALCES |
| □ EM LIGHT FIXTURE WITH 2 BALLASTS; NORMAL AND EMERGENCY CIRCUITS | ☉ _{CD} SMOKE DETECTOR – DUCT MOUNTED | ⓂⓂ MICROPHONE – WALL MOUNTED |
| ○ LIGHT FIXTURE: TYPE AS NOTED | ☉ _D SMOKE DETECTOR – DUCT MOUNTED | ⓂⓂ CALL STATION |
| ○ LIGHT FIXTURE – WALL MOUNTED: TYPE AS NOTED | ☉ _H HEAT DETECTOR | ⓂⓂ DORM STATION |
| ○ LIGHT FIXTURE – WALL MOUNTED: TYPE AS NOTED | ☉ _{FSD} FIRE SMOKE DAMPER | ⓂⓂ ADMIN. STATION |
| ▽ TRACK LIGHTING – TRACK LENGTH AS SCALED: TYPE AS NOTED | ☉ _P PULL STATION OR PUSH BUTTON STATION | ⓂⓂ VOLUME CONTROL |
| Ⓜ EMERGENCY LIGHTING UNIT: FIXTURE TYPE "EM" OR AS NOTED | ☉ _{JB} FIRE ALARM JUNCTION BOX | ⓂⓂ DOOR JAMB CONTACT SWITCH |
| Ⓜ EXHAUST FAN / LIGHT COMBO | ☉ _{STROBE} STROBE, CEILING MOUNT | ⓂⓂ GLASS BREAK DETECTOR |
| △ REMOTE EXTERIOR LIGHT HEAD: FIXTURE TYPE "EMR" OR AS NOTED | ☉ _{XXCD} SPEAKER/STROBE, CEILING MOUNT | ⓂⓂ OCCUPANCY DETECTOR |
| Ⓜ ILLUMINATED EXIT SIGN – CEILING, WALL; ARROWS AS INDICATED TYPE "EX" OR AS NOTED | ☉ _{OWP} SPEAKER/STROBE, WEATHER PROOF BOX | ⓂⓂ PHOTOCELL CONTROL |
| Ⓜ SWITCH – SINGLE POLE, SINGLE THROW, UNLESS OTHERWISE NOTED | ☉ _{CD} COMBINATION HORN/STROBE | ⓂⓂ A/V ALARM ANNUNCIATOR |
| Ⓜ SWITCH – THREE WAY | ☉ _{CD WP} COMBINATION HORN/STROBE, WEATHER PROOF BACK BOX | ⓂⓂ DOOR BELL 24V TRANSFORMER |
| Ⓜ SWITCH – FOUR WAY | ☉ _{FAIP} INTERFACE PANEL | ⓂⓂ BATHROOM EXHAUST FAN |
| Ⓜ SWITCH CONTROL FOR FIXTURES DENOTED WITH "a" APPENDED TO CIRCUIT NUMBER | ☉ _{FACP} CONTROL PANEL | ⓂⓂ COMBINATION ELECTRIC METER BASE/MAIN DISCONNECT |
| Ⓜ SWITCH – LOW VOLTAGE | ☉ _{ANN} NETWORK ANNUNCIATOR | ⓂⓂ KITCHEN HOOD SYSTEM |
| Ⓜ SWITCH – DIMMER | ☉ _{RPU} REMOTE PAGING UNIT | ⓂⓂ MONITOR MODULE |
| Ⓜ SWITCH – KEYED | ☉ _{MM} TROUBLE MONITOR MODULE | ⓂⓂ RELAY SHUTDOWN |
| Ⓜ SWITCH – PILOT LIGHT | ☉ _M MONITOR MODULE | ⓂⓂ CONTROL MODULE (MOUNTED INSIDE FAIP PANEL) |
| Ⓜ SWITCH – INTEGRAL MOTOR OVERLOAD | ☉ _C CONTROL MODULE TO TRIP NAC CIRCUITS | ⓂⓂ END OF LINE RESISTOR |
| Ⓜ LIGHT CONTROL OCCUPANCY SENSOR – WALL MOUNTED | ☉ _{DM} MAGNETIC DOOR HOLDER/RELEASE | ⓂⓂ SUPERVISION OF 24VDC INCLUDES MONITOR MODULE |
| Ⓜ LIGHT CONTROL OCCUPANCY SENSOR – CEILING MOUNTED | ☉ _R RELAY | ⓂⓂ CONTROL MODULE (MOUNTED INSIDE EACH FAIP TO TRIP NAC CIRCUITS) |
| Ⓜ MOTION SENSOR SWITCH PACK AND POWER SUPPLY | ☉ _{SP} FIRE SPRINKLER TAMPER/ OSY / PIV VALVE SUPERVISORY SWITCH | ⓂⓂ WALL MOUNTED STROBE 30cd |
| POWER | ☉ _{FS} FIRE SPRINKLER FLOW SWITCH | ⓂⓂ HVAC SHUTDOWN RELAY |
| Ⓜ POWER DISTRIBUTION PANELBOARDS | ☉ _S SPEAKER – CEILING MOUNT | ⓂⓂ ROOM STROBE (MAX DRAW 50 MILLI-AMPS IN ALARM) |
| Ⓜ METERING DEVICE | ☉ _{AMP#} AMPLIFIER, # DESIGNATES | +++++ CABLE TRAY (SEE SPECIFICATIONS) |
| Ⓜ CURRENT TRANSFORMER ENCLOSURE | ☉ _{BDA} AMPLIFIER, BACKUP | |
| Ⓜ POWER PANELBOARD – SURFACE, RECESSED | LINE STYLE | |
| Ⓜ TRANSFORMER | — LINETYPE/LINEWEIGHT: NEW WORK | |
| Ⓜ MOTOR CONNECTION | — LINETYPE/LINEWEIGHT: EXISTING | |
| Ⓜ NON-FUSED SAFETY SWITCH | ----- LINETYPE/LINEWEIGHT: DEMOLITION | |
| Ⓜ FUSED SAFETY SWITCH | — CONCEALED ELECTRICAL CABLE | |
| Ⓜ ENCLOSED CIRCUIT BREAKER SWITCH | ----- UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ MOTOR STARTER | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ COMBINATION MOTOR STARTER SAFETY SWITCH | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ PUSH BUTTON CONTROL STATION | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ J-BOX OR EQUIP. CONNECTION – FLEX OR REC. AS REQ'D – CEILING, WALL | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ POWER CONNECTION TO FSD CONTROLLED BY LOCAL SMOKE DETECTORS | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ SIMPLEX RECEPTACLE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DOUBLE DUPLEX RECEPTACLE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE – GFCI PROTECTED | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE – GFCI PROTECTED MOUNTED ABOVE COUNTERTOP | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE CONNECTED TO TVSS PANELBOARD – BLUE FACE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DOUBLE DUPLEX RECEPTACLE CONNECTED TO TVSS PANELBOARD – BLUE FACE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE – CEILING MOUNTED | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ PENDANT MOUNT CEILING RECEPTACLE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DUPLEX RECEPTACLE – FLOOR MOUNTED | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ DRYER RECEPTACLE – 30A, 3 POLE, 4 WIRE NEMA 14-30R | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ ELECTRIC RANGE RECEPTACLE – 50A, 3 POLE, 4 WIRE, NEMA 14-50R | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ SPECIAL PURPOSE RECEPTACLE – NEMA CONFIGURATION AS NOTED | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ SURFACE MOUNTED RACEWAY (SMR) – LENGTH AS SCALED ON DRAWINGS | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ SERVICE POLE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| TELECOM | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELCOM JACK 1 = GANG PLATE, S = SURFACE BOX & RACEWAY H = RACEWAY TO HALLWAY, 4 = PLATE IS 4 PORT CONFIG. | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELCOM FLOOR JACK 1 = GANG PLATE, S = SURFACE BOX & RACEWAY H = RACEWAY TO HALLWAY, 4 = PLATE IS 4 PORT CONFIG. | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ PUBLIC PHONE | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELEPHONE OUTLET – FLOOR MOUNTED | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELEPHONE OUTLET – WALL MOUNTED (60" DENOTES MOUNTING HEIGHT) | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELECOMMUNICATION FLOOR STANDING RACK | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELECOMMUNICATION WALL MOUNTED RACK | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELECOMMUNICATION MAIN GROUNDING BUS | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TELECOMMUNICATION GROUNDING BUS | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ WIRELESS ACCESS POINT | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ SECURITY ACCESS POINT (IP CAMERA) | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ CARD READER CONTROLLED DOOR | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |
| Ⓜ TV JACK (72" DENOTES MOUNTING HEIGHT) | — UNDERGROUND ELECTRICAL RACEWAY W/ CONDUCTORS | |

MISCELLANEOUS LEGEND

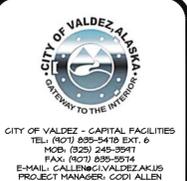
| | |
|-----|--|
| ① | REFERENCED NOTE |
| 1. | GENERAL NOTE |
| AFF | ABOVE FINISHED FLOOR |
| C | CONDUIT |
| CH | COUNTER HIGH |
| ECC | EQUIPMENT GROUNDING CONDUCTOR |
| G | GROUND OR GROUND FAULT CIRCUIT INTERRUPTER |
| PNL | PANEL |
| UON | UNLESS OTHERWISE NOTED |
| WP | WEATHERPROOF |

NOTE: STANDARD LEGEND – NOT ALL SYMBOLS ARE USED.
(NOTATIONS ON DRAWINGS OVERRIDE SYMBOLOGY)

MOUNTING HEIGHT SCHEDULE

| ITEM | HEIGHT |
|---|------------------------|
| PANELBOARDS (TOP) | 70" |
| SPECIAL SYSTEM PANELS (TOP) | 66" |
| POWER METER BASE (CENTER LINE OF SOCKET) | 66" |
| CONTACTORS, MOTOR STARTERS, DISCONNECT SWITCHES (TOP) | 66" |
| RECEPTACLES | 18" |
| COUNTER HIGH DEVICES (DENOTED WITH "CH") | SEE NOTES |
| WALL MOUNTED SWITCHES | 48" |
| TELECOMMUNICATION OUTLETS (WALL MOUNTED DENOTED "W") | 18" (WALL MOUNTED 60") |
| HORNS / STROBES / HORN STROBES | 80" |
| PULL STATIONS, PUSH BUTTONS | 48" |

- NOTES:
- COORDINATE AND INSTALL ALL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL DRAWINGS AND ANY SPECIFICALLY DENOTED REQUIREMENTS.
 - MOUNTING HEIGHT SHALL PREVAIL UNLESS OTHERWISE NOTED OR FIELD CONDITIONS REQUIRED DEVIATION.
 - MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO THE CENTER LINE OF THE DEVICE UNLESS OTHERWISE NOTED.
 - COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS DENOTED AS COUNTER HIGH SHALL BE INSTALLED 6" ABOVE COUNTERS OR BACKSPASHES, WHICHEVER IS HIGHER.



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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
VALDEZ, ALASKA

| | |
|--------------------------|---------------------------|
| DRAWN D.T.C. | DATE 12/1/2017 |
| CHECKED T.D.H. | JOB NO. 170302E |

SHEET CONTENTS

LEGENDS
& MOUNTING HEIGHT

DRAWING NO.
EO.00

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

ELECTRICAL SPECIFICATIONS

16010 - BASIC ELECTRICAL REQUIREMENTS:

SCOPE: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT AS INDICATED ON THESE DRAWINGS AND SPECIFICATIONS AND DIVISION I REQUIREMENTS. PROVIDE COMPLETE AND WORKING SYSTEMS. SECURE AND PAY FOR ALL FEES, PERMITS, ETC., REQUIRED BY FEDERAL, STATE AND LOCAL AGENCIES AND ALL LOCAL UTILITY COMPANIES.

STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, UNIFORM BUILDING CODE, UNIFORM FIRE CODE AND THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR FACILITY ACCESSIBILITY BY THE PHYSICALLY HANDICAPPED INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES.

MATERIALS AND EQUIPMENT: ALL MATERIALS AND EQUIPMENT PROVIDED FOR THE PROJECT SHALL BE NEW AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ) AS SUITABLE FOR THE USE INTENDED. ALL EQUIPMENT SHALL BE DESIGNED, MANUFACTURED AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE UL AND NEMA STANDARDS. THE EQUIPMENT SHALL BEAR THE SEAL OF A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO THE AHJ.

DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. BRING QUESTIONABLE ITEMS AND CONFLICTS AMONG PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ENGINEER PRIOR TO THE BID. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS.

RECORD DRAWINGS: MARK UP A SET OF DRAWINGS (REDLINES) SHOWING ALL ELECTRICAL WORK. SHOW DIAGRAMMATIC ROUTING, SIZING AND REVISIONS TO THE CONTRACT PLANS. RECORD DRAWINGS SHALL BE KEPT ON SITE AVAILABLE FOR REVIEW DURING THE ENTIRE CONSTRUCTION PERIOD. SUBMIT FINAL REDLINE SET FOR APPROVAL PRIOR TO FINAL INSPECTION.

WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE NEAT AND MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WHOLE WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. INSTALL ALL MATERIAL AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

SUBMITTALS: PROVIDE A COMPLETE MATERIAL AND EQUIPMENT SUBMITTAL INCLUDING DATA FOR ALL ITEMS SPECIFICALLY DENOTED IN SPECIFICATION SECTIONS OR SPECIFIED BY A DRAWING REFERENCE. THE SUBMITTAL SHALL BE BOUND AND ORGANIZED IN A THREE RING BINDER BY SPECIFICATION SECTIONS FOLLOWED BY EQUIPMENT REFERENCED ON THE DRAWINGS. PROVIDE PROTRUDING TABS FOR EACH SPECIFICATION SECTION AND ONE TAB FOR EQUIPMENT SPECIFIED BY DRAWING REFERENCE. PROVIDE AN INDEX LIST OF TABBED SECTIONS AT THE BEGINNING OF THE SUBMITTAL. EACH ITEM SUBMITTED FOR REVIEW SHALL INCLUDE DATA SHEETS WHICH IDENTIFY MANUFACTURER, MODEL NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. ITEMS SUBMITTED ON MANUFACTURER'S CATALOG CUT SHEETS SHALL BE CLEARLY INDICATED BY HIGHLIGHTING OR OTHER METHOD WHICH CALLS ATTENTION TO THE ITEM SUBMITTED. WHERE CUT SHEETS SHOW SEVERAL MODELS OR OPTIONS, CLEARLY DISTINGUISH BETWEEN THOSE ITEMS WHICH ARE INCLUDED AND THOSE WHICH ARE NOT. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT FOR PROPER OPERATION. A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. APPROVAL OF THE SUBMITTAL MUST BE OBTAINED FOR ALL MATERIAL AND EQUIPMENT PRIOR TO PURCHASE OF EQUIPMENT AND INCORPORATION INTO THE PROJECT.

WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR DURING THE GUARANTEE PERIOD AT NO ADDITIONAL COST TO THE OWNER.

ACCESS DOORS: PROVIDE ACCESS DOORS FOR REQUIRED ACCESS OF ELECTRICAL EQUIPMENT. FIRE RATING SHALL BE EQUAL TO OR GREATER THAN SURROUNDING CONSTRUCTION. ACCESS DOOR SHALL BE PAINTED TO MATCH ADJACENT AREA. SUBMIT PER SUBMITTAL REQUIREMENTS.

PENETRATIONS OF FIRE BARRIERS: ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300-21 AND THE FOLLOWING:

ALL HOLES OR VOIDS CREATED TO EXTEND OR REMOVE ELECTRICAL SYSTEMS THROUGH FIRE RATED FLOORS, WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS-FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING UP TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250 DEGREES F OR HIGHER. MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1471 AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH-PENETRATION FIRE STOP DEVICES. THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME-RATED FLOOR, ALL OR CEILING ASSEMBLY. SUBMIT PER SUBMITTAL REQUIREMENTS.

16111 - CONDUIT:

ALL WIRING (INCLUDING POWER, CONTROL, LOW VOLTAGE, TELEPHONE AND DATA) SHALL BE INSTALLED IN CONCEALED OR EXPOSED METALLIC RACEWAY EXCEPT WHERE SPECIFICALLY INDICATED ELSEWHERE IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS.

CONDUIT IN LOCATIONS OUTSIDE THE BUILDING SHALL BE RIGID METAL CONDUIT (RMC), INTERMEDIATE METAL CONDUIT (IMC), OR HIGH DENSITY POLYETHYLENE (HDPE). CONDUIT FITTINGS FOR RMC AND IMC SHALL BE THREADED SCREWED TYPE. SET SCREW FITTINGS SHALL NOT BE USED WITH RMC AND IMC CONDUIT. HDPE FITTINGS SHALL BE ELECTRICALLY FUSED PER MANUFACTURER'S RECOMMENDATIONS. CONDUIT OUTLET BODIES AND BOXES FOR USE WITH RMC AND IMC CONDUIT SHALL BE GALVANIZED, MALLEABLE IRON WITH THREADED HUBS AND GASKETED COVERS OF THE SAME MATERIAL AS THE BODY OR BOX.

CONDUIT LOCATED INSIDE THE BUILDING SHALL BE ELECTROMETALLIC TUBING (EMT). ALL EMT CONDUIT FITTINGS SHALL BE STEEL COMPRESSION. CAST FITTINGS ARE NOT PERMITTED. CONDUIT BODIES FOR USE WITH EMT MAY BE CAST ALUMINUM WITH COVERS PROVIDED WITH THE BODY.

MAKE CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER EQUIPMENT WITH FLEXIBLE METAL CONDUIT OF GALVANIZED STEEL. USE FITTINGS LISTED FOR USE WITH FLEXIBLE METAL CONDUIT OF ELECTRO ZINC GALVANIZED MALLEABLE IRON OR STEEL CONSTRUCTION. USE LIQUID TIGHT FLEXIBLE CONDUIT FOR ALL EXTERIOR LOCATIONS, WET LOCATIONS AND CONNECTIONS TO MOTORS.

RACEWAYS MUST BE CONCEALED EXCEPT IN CRAWL SPACES, MECHANICAL ROOMS OR WHERE SPECIFICALLY DENOTED ON DRAWINGS. THE RACEWAY SYSTEM SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR. PAINT ALL EXPOSED RACEWAYS TO MATCH THE SURFACE TO WHICH THEY ARE ATTACHED EXCEPT IN CRAWL SPACE. INSTALL ALL CONDUIT AND CABLES PARALLEL OR PERPENDICULAR TO BUILDING LINES. ALLOW ADEQUATE CLEARANCE BETWEEN RACEWAY AND CEILING SYSTEMS TO ALLOW REMOVAL OF CEILING TILES. SUPPORT PER NEC REQUIREMENTS. SEE SECTION 16120 WIRE AND CABLE FOR BRANCH CIRCUIT WIRING. SUBMIT PER SUBMITTAL REQUIREMENTS.

16120 - WIRE AND CABLE:

ALL POWER AND CONTROL CONDUCTORS SHALL BE SOLID OR CLASS B OR C STRANDED, ANNEALED COPPER WITH TYPE XHHW 600V INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #14 AWG. FULL ALL CONDUCTORS INTO THE RACEWAY AT THE SAME TIME. USE UL LISTED WIRE PULLING LUBRICANT IF REQUIRED. INSTALL IN ACCORDANCE WITH NEC REQUIREMENTS FOR DERATING AND CONDUIT FILL. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WHITE, AND GREEN FOR 208Y/120V 3 PHASE 4 WIRE CIRCUITS. USE PROPERLY SIZED, INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE #6 AWG AND LARGER CONDUCTORS WITH INSULATED CRIMP, COMPRESSION TYPE OR SPLIT BOLT CONNECTORS. BRANCH CIRCUIT WIRING SHALL BE ARMORED CABLE WITH INSULATED GREEN GROUND WIRE AND XHHW INSULATED CONDUCTORS RATED FOR USE IN PATIENT CARE AREAS (NEC ARTICLE 517). AFC HCF-XL OR EQUAL. IDENTIFY PER IDENTIFICATION REQUIREMENTS. SUBMIT PER SUBMITTAL REQUIREMENTS.

16130 - BOXES:

PROVIDE ELECTRO-GALVANIZED OR CADMIUM PLATED, ONE PIECE STEEL OUTLET BOXES 4" SQUARE BY 1 1/2" DEEP MINIMUM FOR USE IN INTERIOR AREAS. PROVIDE 4 1 1/16" SQUARE BY 2 1/8" DEEP OUTLET BOXES FOR ALL VOICE AND DATA OUTLETS. PROVIDE OUTLET BOXES AND DEVICE COVERS AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS OR WITHIN 24 INCH HORIZONTAL SEPARATION DISTANCE IN FIRE RATED WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION TO MINIMIZE SOUND TRANSMISSION IN STUD WALLS. IN FIRE RATED WALLS SEPARATE BACK-TO-BACK BOXES A MINIMUM OF THE STUD SPACING DISTANCE. USE MULTIPLE GANG BOXES WHERE 2 OR MORE DEVICES ARE MOUNTED TOGETHER, DO NOT USE SECTIONAL BOXES. SUPPORT BOXES INDEPENDENTLY OF CONDUIT. SUBMIT PER SUBMITTAL REQUIREMENTS.

16141 - WIRING DEVICES:

RECEPTACLES - PROVIDE NEMA 5-20R DUPLEX GROUNDING, BACK AND SIDE WIRED, UL LISTED, HOSPITAL GRADE TYPE RECEPTACLES WITH WHITE FINISH, UL NO. 498 AND 544 APPROVED, NYLON FACE, BRASS TERMINAL SCREWS, SELF-GROUNDING, CERTIFIED TO COMPLY WITH NEMA WD-1, TERMINATIONS SHALL USE A SCREW WITH A PRESSURE PLATE CLAMP ONLY WHICH WILL EXCEPT UP TO #10 WIRING. SPRING CLAMPED TYPE OR OPEN SCREW TERMINATIONS ARE NOT ACCEPTABLE. PROVIDE DUPLEX CONVENIENCE RECEPTACLES WITH CLASS 3 INTEGRAL GROUND FAULT CURRENT INTERRUPTER AND SPECIFIC USE RECEPTACLES WHERE INDICATED ON THE DRAWINGS. INSTALL RECEPTACLES WITH GROUNDING POLE ON BOTTOM. SUBMIT PER SUBMITTAL REQUIREMENTS.

PROVIDE TAMPER RESISTANT TYPE OR TAMPER RESISTANT COVERS ALL PUBLIC ACCESSIBLE SPACES

SWITCHES - PROVIDE NEMA WD-1 20 A, 120/277V AC, BACK AND SIDE WIRED; BACK WIRING SHALL USE A SCREW WITH A PRESSURE PLATE CLAMP TERMINALS WHICH WILL EXCEPT UP TO #10 WIRING. GENERAL USE SNAP SWITCH, UL NO. 20 LISTED, SELF-GROUNDING BINDING SCREW-TYPE TERMINALS WITH WHITE TOGGLE, SINGLE POLE, DOUBLE POLE, THREE WAY OR FOUR WAY AS INDICATED ON THE DRAWINGS. SCREW TERMINAL OR SCREW CLAMP TYPE ONLY. SPRING CLAMPED TYPE TERMINATIONS ARE NOT ACCEPTABLE. PROVIDE HORSEPOWER RATED SWITCHES FOR ALL MOTOR CONNECTIONS. INSTALL SWITCHES WITH OFF POSITION DOWN. SUBMIT PER SUBMITTAL REQUIREMENTS.

OCCUPANCY SENSING SWITCHES - DUAL VOLTAGE 120/277V, 1200 SQ FT COVERAGE, 180 DEGREE FIELD OF VIEW, ADJUSTABLE TIME DELAY, 1500 W SWITCHING COMPATIBLE WITH ELECTRONIC BALLASTS, 3 POSITION OVERRIDE SWITCH (OFF-ON-AUTO). SUBMIT PER SUBMITTAL REQUIREMENTS.

DEVICE PLATES - PROVIDE UL LISTED ONE PIECE ROUNDED EDGE "STREAMLINE" DESIGN FLUSH DEVICE PLATES OF WHITE NYLON COUNTERSUNK SCREWS TO MATCH DEVICE PLATE. SUBMIT PER SUBMITTAL REQUIREMENTS.

16170 - GROUNDING AND BONDING:

PROVIDE EQUI-POTENTIAL GROUNDING SYSTEM, IN ACCORDANCE WITH NEC ARTICLE 250, AT SERVICE ENTRANCE EQUIPMENT BY BONDING THE FOLLOWING TO THE SERVICE GROUND BUS:

1. METAL FRAME OF THE BUILDING.
2. METALLIC PIPING.
3. ALL MADE ELECTRODES.
4. GROUND RING.
5. FOUNDATION PILING AS SHOWN ON THE DRAWINGS.
6. SERVICE ENTRANCE NEUTRAL BUS.

PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS BONDED TO EQUIPMENT AND TO RACEWAY SYSTEM.

PROVIDE COMMUNICATION SYSTEM GROUNDING CONDUCTOR AT EACH TTB CONNECTED TO THE ELECTRICAL SERVICE GROUND.

16190 - SUPPORTING DEVICES:

SUPPORT ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, PANELBOARDS, BOXES, CONDUIT, ETC. PER NEC AND SEISMIC ZONE 4 REQUIREMENTS. USE GALVANIZED 1- OR 2-HOLE STRAPS, CONDUIT HANGERS, ALL-THREAD, CHANNEL STRUT, STRUT STRAPS AND COMPONENTS SPECIFICALLY DESIGNED FOR CONDUIT SUPPORT.

16195 - IDENTIFICATION:

PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC NAMEPLATES WITH WHITE LETTERS ON A BLACK BACKGROUND OR WHITE LETTERS ON RED BACKGROUND (FOR PANELS X AND XA INCLUDING ALL ASSOCIATED EQUIPMENT) TO IDENTIFY ALL ELECTRICAL PANELBOARDS, DISCONNECTS, CONTROL EQUIPMENT, POWER OUTLETS AND WALL SWITCHES. LETTER HEIGHTS SHALL BE 1/4 INCH FOR EQUIPMENT AND 1/8 INCH ON RECEPTACLES AND WALL SWITCHES. RECEPTACLE AND SWITCH NAME PLATES SHALL INCLUDE PANELBOARD NAME AND CIRCUIT NUMBER. LABEL EACH CONDUCTOR AT EACH TERMINATION OR INTERCONNECTION OF WIRING IN PANEL BOARDS, GUTTERS, PULL BOXES, OUTLETS AND LOAD CONNECTIONS. LABEL SHALL DENOTE PANEL NAME AND CIRCUIT NUMBER. COLOR CODE PHASE CONDUCTORS PER CONDUCTOR SPECIFICATION. SUBMIT PER SUBMITTAL REQUIREMENTS.

16440 - SAFETY SWITCHES:

HORSEPOWER RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK OPERATING MECHANISM, DEFEATABLE DOOR INTERLOCK TO PREVENT DOOR OPENING WHEN IN THE ON POSITION, SOLID NEUTRAL, GROUND BUS, AND PAD LOCKABLE IN THE OFF POSITION. DISCONNECT SHALL MEET OR EXCEED STANDARDS NEMA KSI AND UL98. PROVIDE SOLID NEUTRAL KIT WHERE NEUTRAL IS REQUIRED. SUBMIT PER SUBMITTAL REQUIREMENTS.

16471 - TELECOMMUNICATION EQUIPMENT:

ALL RACEWAYS, CABLES, JUNCTION BOXES AND TERMINATIONS SHALL BE INSTALLED ACCORDING TO EIA/TIA CATEGORY 5E STANDARDS 568 AND 569. PERFORM AND DOCUMENT TESTING ACCORDING TO EIA/TIA 568 AND EIA/TIA TSB40 SPECIFICATIONS. RACEWAYS SHALL BE 3/4" EMT MINIMUM. CABLES SHALL BE CATEGORY 6 RATED, 4 UNSHIELDED TWISTED PAIR, #24 AWG, PLENUM RATED, INSULATED SOLID COPPER CONDUCTORS, COLOR CODED PER EIA/TIA 568. TERMINATIONS AT RECEPTACLES AND PATCH PANEL SHALL BE PERFORMED IN ACCORDANCE WITH EIA/TIA 568B. RECEPTACLES SHALL BE SINGLE GANG WHITE PLASTIC FACEPLATE WITH OPENINGS FOR UP TO 4 COUPLERS MINIMUM. EACH OUTLET SHALL HAVE 2 ANGLED TYPE COUPLERS, ONE FOR DATA AND ONE FOR TELEPHONE. BLANK OFF REMAINING OPENINGS IN PLATE. PATCH PANELS SHALL BE WALL MOUNTED, 48 PORT LOCATED ON THE TTB. LABEL EACH END OF CABLE WITH PORT NUMBER OF PATCH PANEL TO WHICH IT IS CONNECTED. SUBMIT PER SUBMITTAL REQUIREMENTS.

16480 - MOTOR CONTROLLERS:

PROVIDE CONTROLLER RATED AND CONFIGURED FOR CONTROL OF EACH MOTOR SHOWN ON THE DRAWINGS.

MANUAL MOTOR STARTERS: NEMA ICS 2; AC GENERAL PURPOSE CLASS A MANUALLY OPERATED NON-REVERSING FULL VOLTAGE CONTROLLER FOR INDUCTION MOTORS RATED IN HORSEPOWER, WITH OVERLOAD RELAY IF REQUIRED.

MAGNETIC MOTOR STARTERS: NEMA ICS 2; AC GENERAL PURPOSE CLASS A NON-REVERSING FULL VOLTAGE CONTROLLER FOR INDUCTION MOTORS RATED IN HORSEPOWER ELECTRICALLY HELD IN THE CLOSED POSITION. CONTROLLER SHALL HAVE "HAND-OFF-AUTO" SWITCH IN THE OUTER DOOR TO PROVIDE AUTOMATIC CONTROL OR MANUAL OVERRIDE ON OR OFF CONTROL. PROVIDE RED LED PILOT LIGHT ON FRONT COVER TO ILLUMINATE WHEN CONTACTOR IS IN THE CLOSED POSITION. CONTROL POWER SHALL BE PROVIDED BY 120 V CONTROL TRANSFORMER LOCATED WITHIN THE ENCLOSURE. UNIT SHALL BE EQUIPPED WITH OVERLOAD RELAY AND A MINIMUM OF ONE NORMALLY OPEN AND ONE NORMALLY CLOSED AUXILIARY CONTACTS EXPANDABLE TO SIX. SUBMIT PER SUBMITTAL REQUIREMENTS.

COMBINATION DISCONNECT/MOTOR STARTER: COMBINE MAGNETIC MOTOR STARTERS WITH A MOTOR CIRCUIT PROTECTOR AND WITH EXTERNALLY OPERABLE DISCONNECT SWITCH HANDLE IN A COMMON ENCLOSURE. SUBMIT PER SUBMITTAL REQUIREMENTS.

16510 - LIGHTING EQUIPMENT:

PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE LIGHTING FIXTURE SCHEDULE. EXTERIOR FIXTURES SHALL HAVE LOW TEMPERATURE RATED BALLASTS -40 DEGREE F FOR LED AND HPS AND -20 DEGREE F FOR FLUORESCENT. SUBMIT PER SUBMITTAL REQUIREMENTS.

LAMPS: ALL LAMPS SHALL BE LED.

EMERGENCY BATTERY BACKUP MODULES SHALL INCLUDE A PILOT LIGHT, TEST SWITCH AND A SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY. THE UNIT SHALL PROVIDE 1100 LUMENS FOR 90 MINUTES UPON POWER FAILURE AND SHALL BE RATED FOR 2 LAMP OPERATION. MOUNT TEST SWITCH AND INDICATING LIGHT IN AN ACCESSIBLE AND IN A VISIBLE LOCATION. THE UNIT SHALL MEET UL 924, NFPA 101, AND OSHA STANDARDS. SUBMIT PER SUBMITTAL REQUIREMENTS.

PHOTOELECTRIC CELL: ENCLOSED IN A WEATHER TIGHT ENCLOSURE EQUIPPED WITH A 0.5" INCH THREADED NIPPLE TO FIT THREADED HUBS OR CONDUIT BODIES. THE ENCLOSURE SHALL BE SUITABLE FOR MOUNTING IN ANY POSITION WITH AN ADJUSTMENT SHIELD TO PERMIT ADJUSTMENT TO TURN-ON LIGHT LEVEL REQUIREMENTS. SUBMIT PER SUBMITTAL REQUIREMENTS.

16741 - FIRE ALARM EQUIPMENT:

CONTRACTOR SHALL SECURE THE SERVICES OF AN ALASKAN BASED NOTIFIER FACTORY AUTHORIZED REPRESENTATIVE FOR THE FOLLOWING:

1. NICET DESIGNER TO COMPLETE DESIGN OF THE FIRE ALARM EXTENSION INTO THE NEW WORK AREAS. DESIGN SHALL COMPLY WITH EXISTING HOSPITAL STANDARDS INCLUDING AT MINIMUM SMOKE DETECTION AND A/V ALARM IN EACH ROOM. SUBMIT PER SUBMITTAL REQUIREMENTS.
2. REPROGRAMMING OF THE NOTIFIER PANEL.
3. RETESTING OF THE SYSTEM AND CERTIFICATION OF COMPLIANCE.

NOTE: THIS SHEET IS FULL SIZE AT 22x34 AND HALF SIZE AT 11x17



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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION

VALDEZ, ALASKA

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|-------------------|--------------------|
| DRAWN DTC | DATE 12/12/2017 |
| CHECKED T.D.H. | JOB NO. 170302E |

SHEET CONTENTS

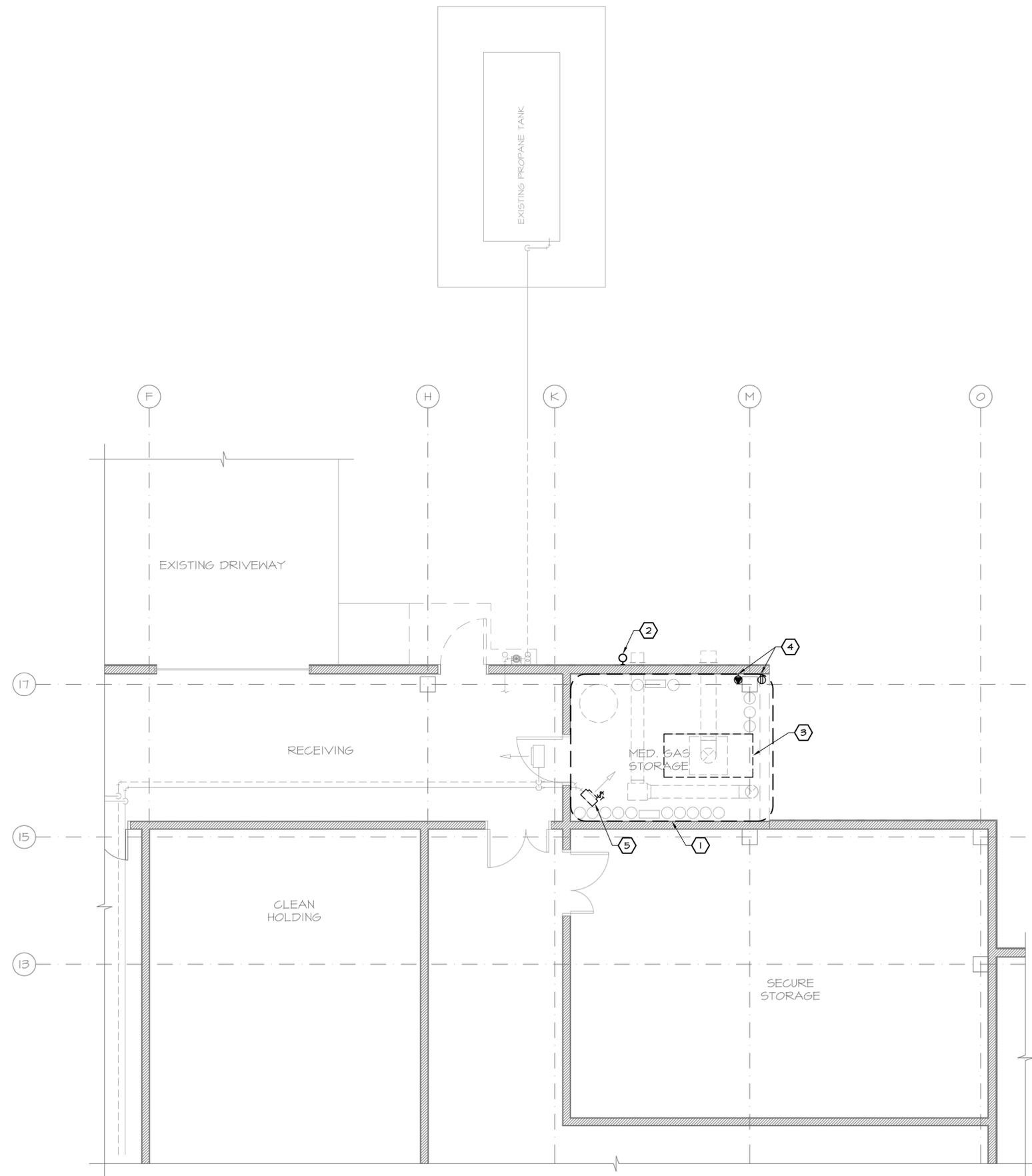
SPECIFICATIONS

DRAWING NO.

EO.01

NOTES:

- ① ALL ELECTRICAL WIRING AND DEVICES BELOW 5'-0" AFF SHALL BE DEMO'D. ALL ELECTRICAL WIRING RELATED TO THE O2 GENERATOR EQUIPMENT SHALL BE DEMO'D. DEMO SHALL BE DONE IN A SAFE MANNER TO ALLOW POSSIBLE REUSE BY EXTENSION. ANY RESIDUE WIRING E.G. FLUSH / CONCEALS JUNCTION BOXES SHALL HAVE ALL CONDUCTORS REMOVED BACK TO THE NEAREST JUNCTION BOX OUTSIDE OF THE AREA OR TO THE PANEL AND THEN MAY BE CAPPED WITH A FLUSH PLATE.
- ② REMOVE EXISTING EXTERIOR LIGHT FIXTURE. SAVE FOR RELOCATION. WIRING TO BE EXTENDED TO NEW LOCATION.
- ③ O2 GENERATOR TO BE RELOCATED. 06SI MO6S-100
- ④ RELOCATE EXISTING CIRCUITS AND DEVICES INTO THE NEW O2 GENERATOR ROOM. LK-15,17 LK-42
- ⑤ DISCONNECT AND REMOVE WIRING TO EXISTING UNIT HEATER (LA-51) FOR RECONNECTION TO NEW UH SHOWN ON NEW WORK SHEET.



PARTIAL LIGHTING AND POWER PLAN - DEMO



NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

**VALDEZ REGIONAL HEALTH CENTER
 O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

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|--------------------------|---------------------------|
| DRAWN D.T.C. | DATE 12/1/2017 |
| CHECKED T.D.H. | JOB NO. 170302E |

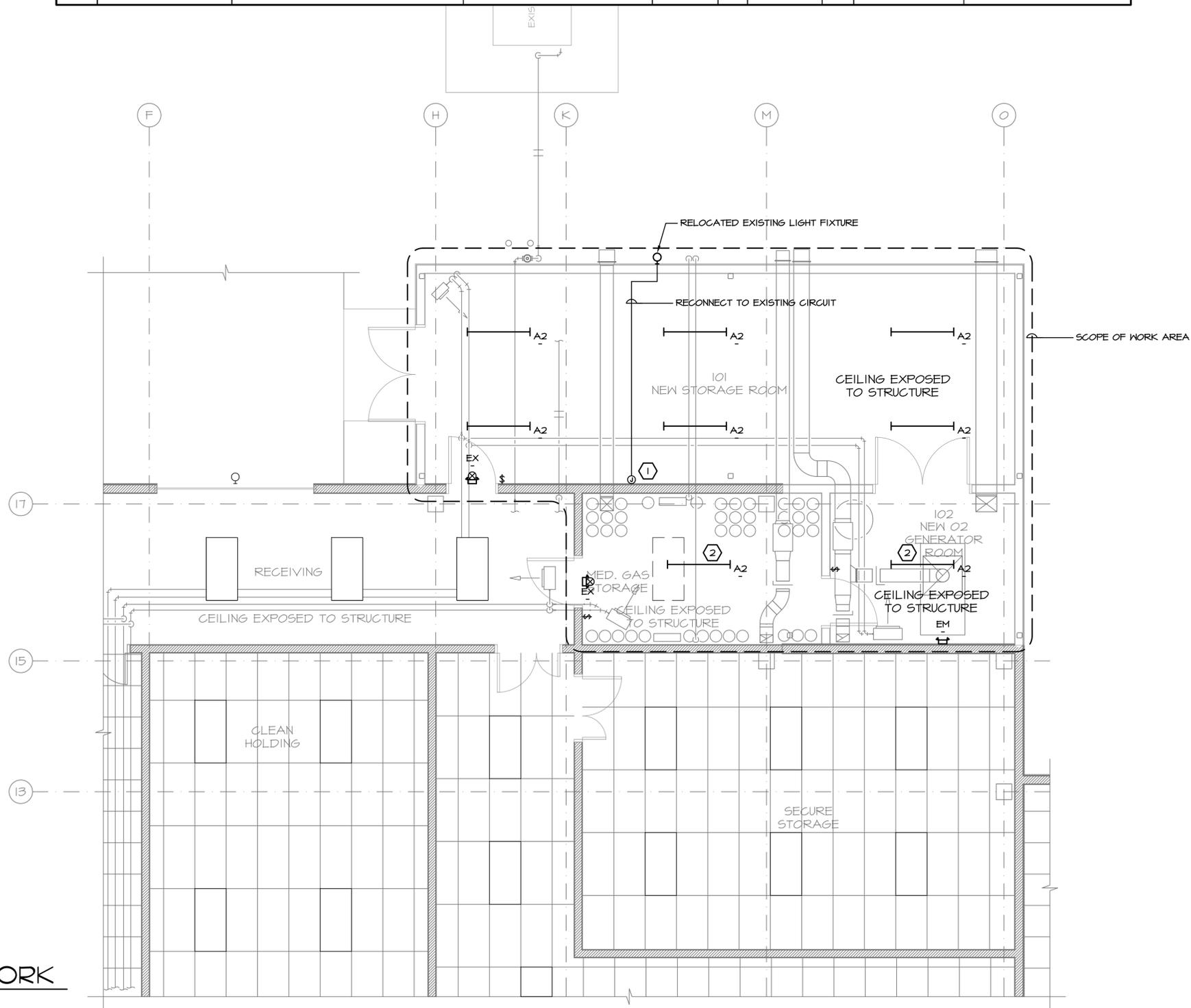
SHEET CONTENTS
 PARTIAL LIGHTING AND POWER PLAN - DEMO

DRAWING NO.
 EI.01

NOTES:

- ① EXTEND EXISTING EXTERIOR LIGHTING CIRCUIT TO NEW LOCATION. (LA-13)
- ② ALL WIRING IN THIS AREA TO BE ABOVE 5'-0" F.F.
- 3. CIRCUIT NEW LIGHTING TO EXISTING PANEL 'HA'. PROVIDE 20% CIRCUIT BREAKER IN EXISTING SPACE
- 4. CIRCUIT MED GAS AND O2 ROOM. REUSE EXISTING LIGHTING CIRCUIT.

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|--------------|----------------------------------|-------------------------------------|---------|-------|------|----------|------|------------|
| KEY | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | VOLTAGE | LAMPS | | BALLASTS | | MOUNTING |
| | | | | | NO | TYPE | NO | TYPE | |
| A2 | LITHONIA | ZL1N L48 SMR 5000LM MVOLT 30K WH | LED STRIP LIGHT | 277 | | LED | - | - | CHAIN HUNG |
| EM | LITHONIA | ELM2 LED MVOLT | EMERGENCY LIGHT, 2 HEAD | 277 | | LED | - | - | |
| EX | LITHONIA | LHQM LED G HO R0 M6 MVOLT | COMBO EMERGENCY EXIT SIGN, NO HEADS | 277 | | LED | - | - | |



PARTIAL LIGHTING PLAN - NEW WORK
 SCALE: 1/4" = 1'-0"
 0' 1' 2' 4' 8'

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
 VALDEZ, ALASKA

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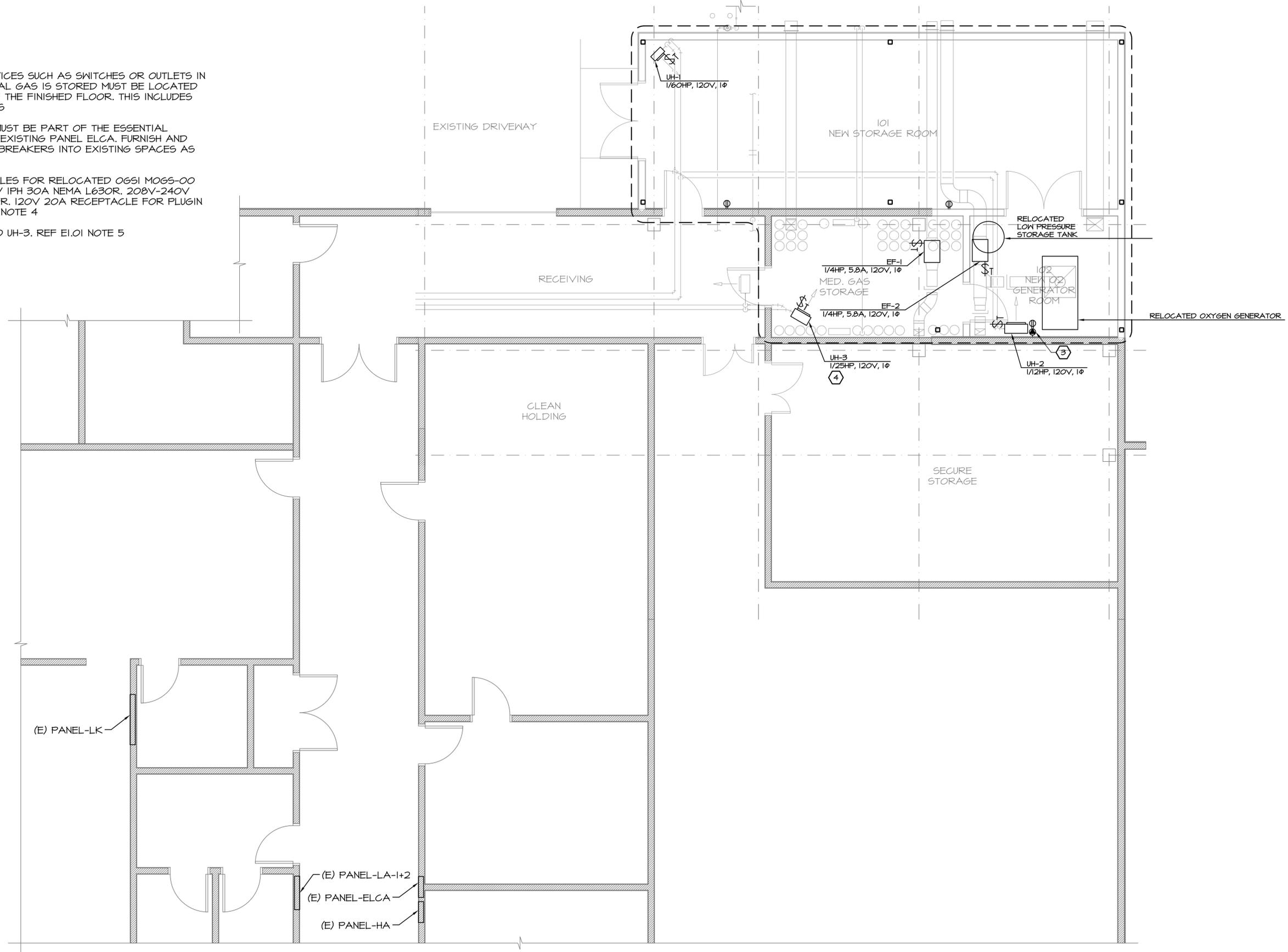
SHEET CONTENTS
 PARTIAL LIGHTING PLAN - NEW WORK

DRAWING NO.
 E2.01

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NOTES:

1. ANY ELECTRICAL DEVICES SUCH AS SWITCHES OR OUTLETS IN ROOMS WHERE MEDICAL GAS IS STORED MUST BE LOCATED AT LEAST 5 FEET OFF THE FINISHED FLOOR. THIS INCLUDES ALL NEW WORK AREAS
2. ELECTRICAL POWER MUST BE PART OF THE ESSENTIAL ELECTRICAL SYSTEM. EXISTING PANEL ELCA, FURNISH AND INSTALL NEW CIRCUIT BREAKERS INTO EXISTING SPACES AS REQUIRED.
3. RELOCATE RECEPTACLES FOR RELOCATED OGS1 MOGS-00 O2 GENERATOR, 240V 1PH 30A NEMA L630R, 208V-240V STEP UP TRANSFORMER, 120V 20A RECEPTACLE FOR PLUG IN ANALYZER, REF. EI.01 NOTE 4
4. RECONNECT WIRING TO UH-3. REF EI.01 NOTE 5



PARTIAL POWER PLAN - NEW WORK
 SCALE: 1/4" = 1'-0"
 0' 1' 2' 4' 8'

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17

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VALDEZ REGIONAL HEALTH CENTER O2 GENERATOR ADDITION
 VALDEZ, ALASKA

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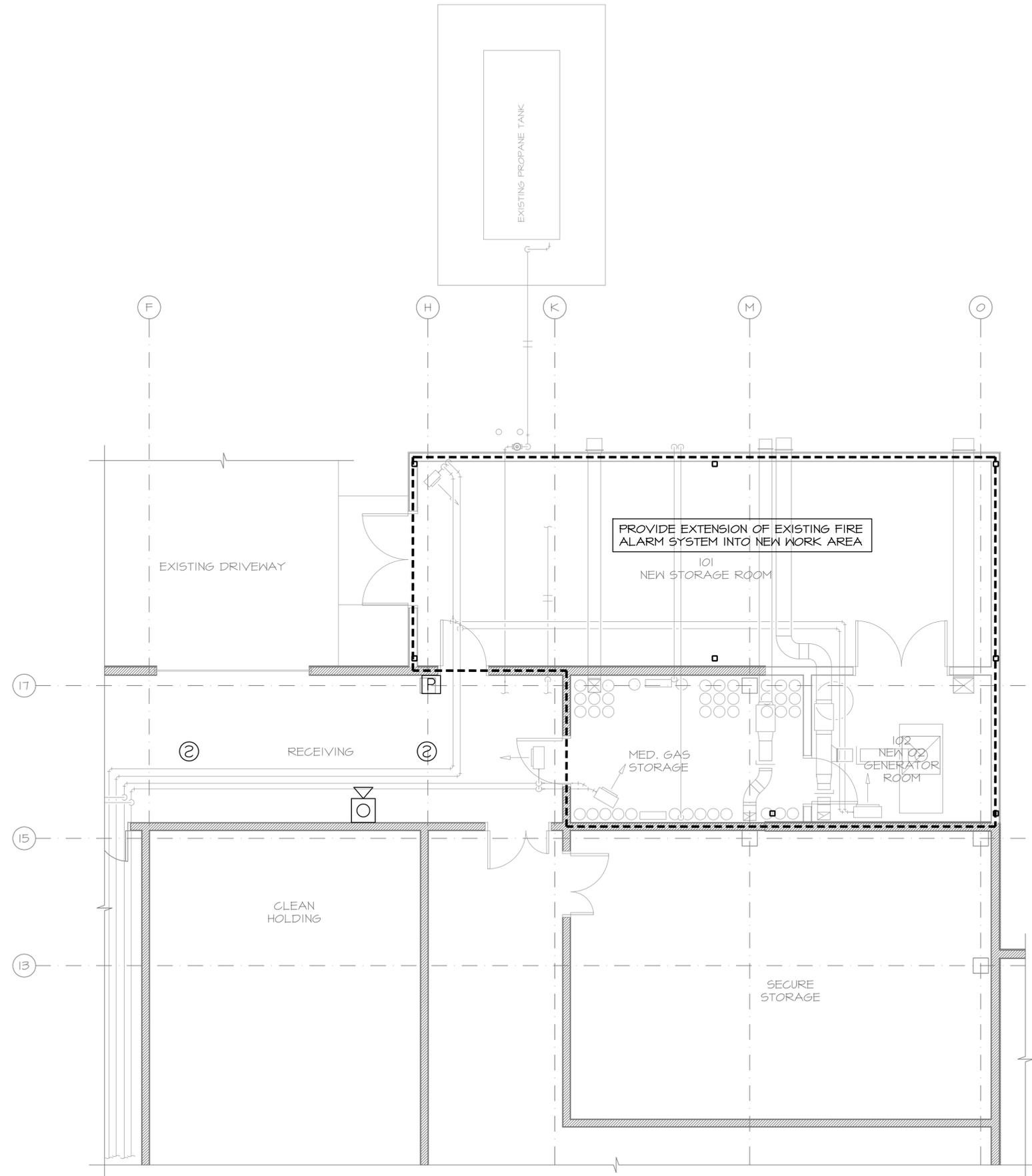
SHEET CONTENTS
 PARTIAL POWER PLAN - NEW WORK

DRAWING NO.
 E3.01

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NOTES:

1. REFERENCE SPECIFICATION 16741.
2. COORDINATE WITH THE MECHANICAL CONTRACTOR TO INSTALL TWO A/V GAS ALARM ANNUNCIATORS IN THE NEW WORK AREA. DEVICES AND INSTALLATION INSTRUCTIONS TO BE FURNISHED BY MECHANICAL. INSTALLATION AND WIRING BY ELECTRICAL CONTRACTOR.



PARTIAL FIRE ALARM PLAN
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'

NOTE: THIS SHEET IS FULL SIZE AT 22X34 AND HALF SIZE AT 11X17



**VALDEZ REGIONAL HEALTH CENTER
 O2 GENERATOR ADDITION**
 VALDEZ, ALASKA

| | |
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SHEET CONTENTS
 PARTIAL FIRE ALARM PLAN

DRAWING NO.
E4.01