# ALSEA SCHOOL DISTRICT

## POWER PANEL ROOM & HALLWAY ADDITION
## PHASE 1b.7

100% AGENCY REVIEW & BID DOCUMENTS January 27th, 2022

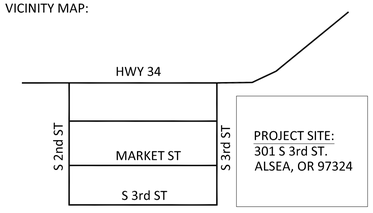
**SHEET SCHEDULE:**



*DEFERRED SUBMITTALS:*

1. FIRE ALARM SYSTEM
2. SAND & GREASE INTERCEPTOR

VICINITY MAP:





*OWNER:*

*Address:*

ALSEA SCHOOL DISTRICT
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*

*CONSTRUCTION MANAGER (CM/GC):*

Address:

CB Construction
*1202 Adams Avenue*
*LaGrande, Oregon 97850*

Contact:
*Derek Howard*
*Office: 541.786.5315*
*Email: dhoward@cbconst.us*

*ARCHITECT:*

Address:

STRAIGHTLINE Architects
*4521 South Cloverdale Road*
*Suite 102*
*Boise, Idaho 83709*

Contact:
*Scott Marshall, AIA - NCARB, Principal*
*Office: 208.991.0855*
*Email: Scott@Straightline.biz*

ELECTRICAL ENGINEER:

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E2CO
*800 S. Industry Way, Suite 350*
*Meridian, Idaho 83642*

Contact:
*Jon Van Stone, PE. Principal*
*Office: 208-378-4450*
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MECHANICAL ENGINEER:

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VALUE ENGINEERING INC.
*1406 N. Main Street, Suite 107*
*Meridian, ID 83642*

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*Tyson McFall, P.E., Principal*
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*Email: Tyson@v-engineering.com*

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Contact:
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REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO
5794
STATE OF OREGON

ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION
*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


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*4521 South Cloverdale Road,*
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Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

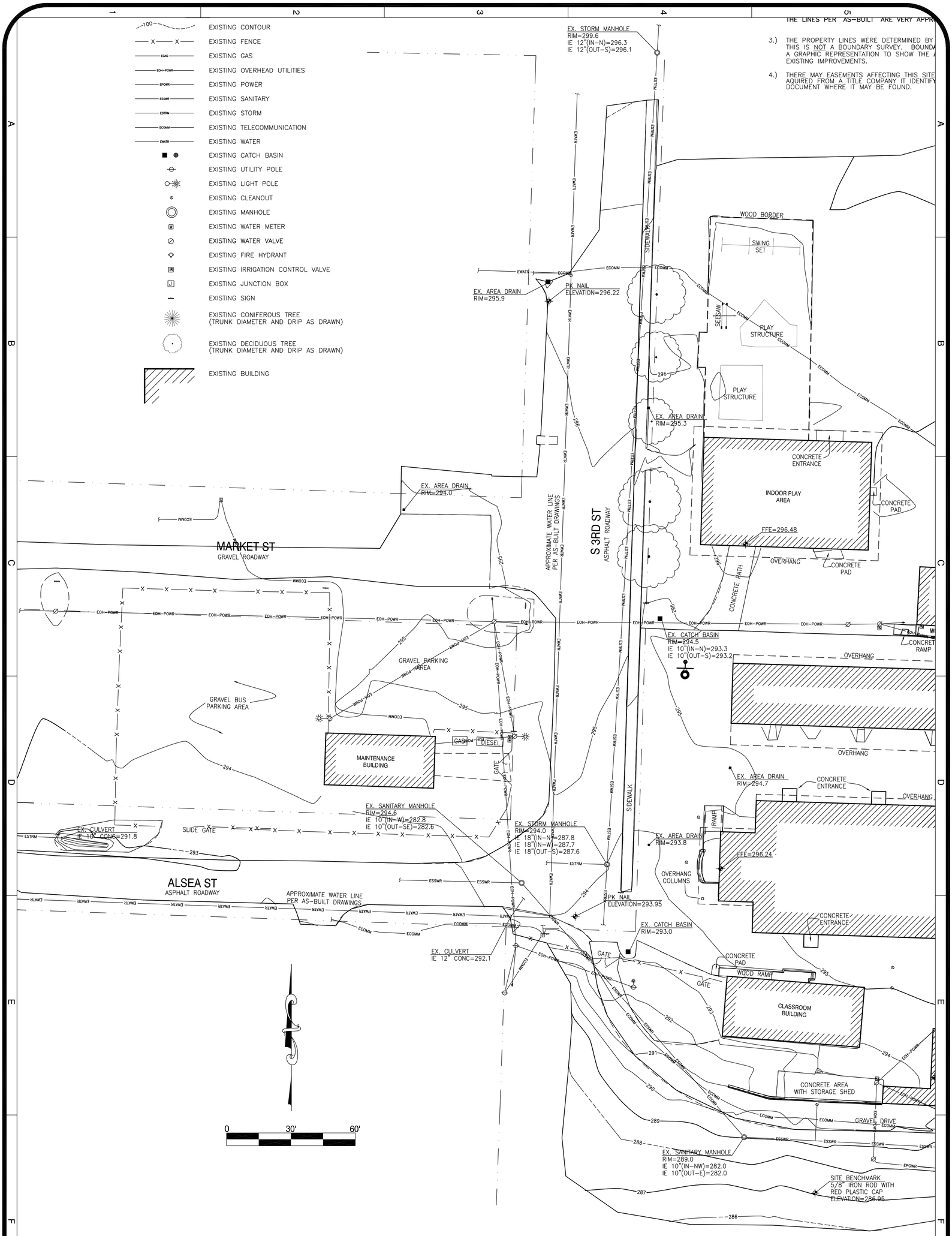
PHASES (PH): 1b.7

ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.

A0.0
Cover sheet




C-1

PREPARED BY:
COLE SURVEYING, LLC
6765 S.W. PHILOMATH BLVD.
CORVALLIS, OREGON 97333
(541) 929-5500

SHEET 1 of 2
PROJECT NO: 21-808

FILE: 21808-ALSEA_SCHOOL_TOPO

# ALSEA SHOOL
# TOPOGRAPHIC SURVEY

## ALSEA, OREGON

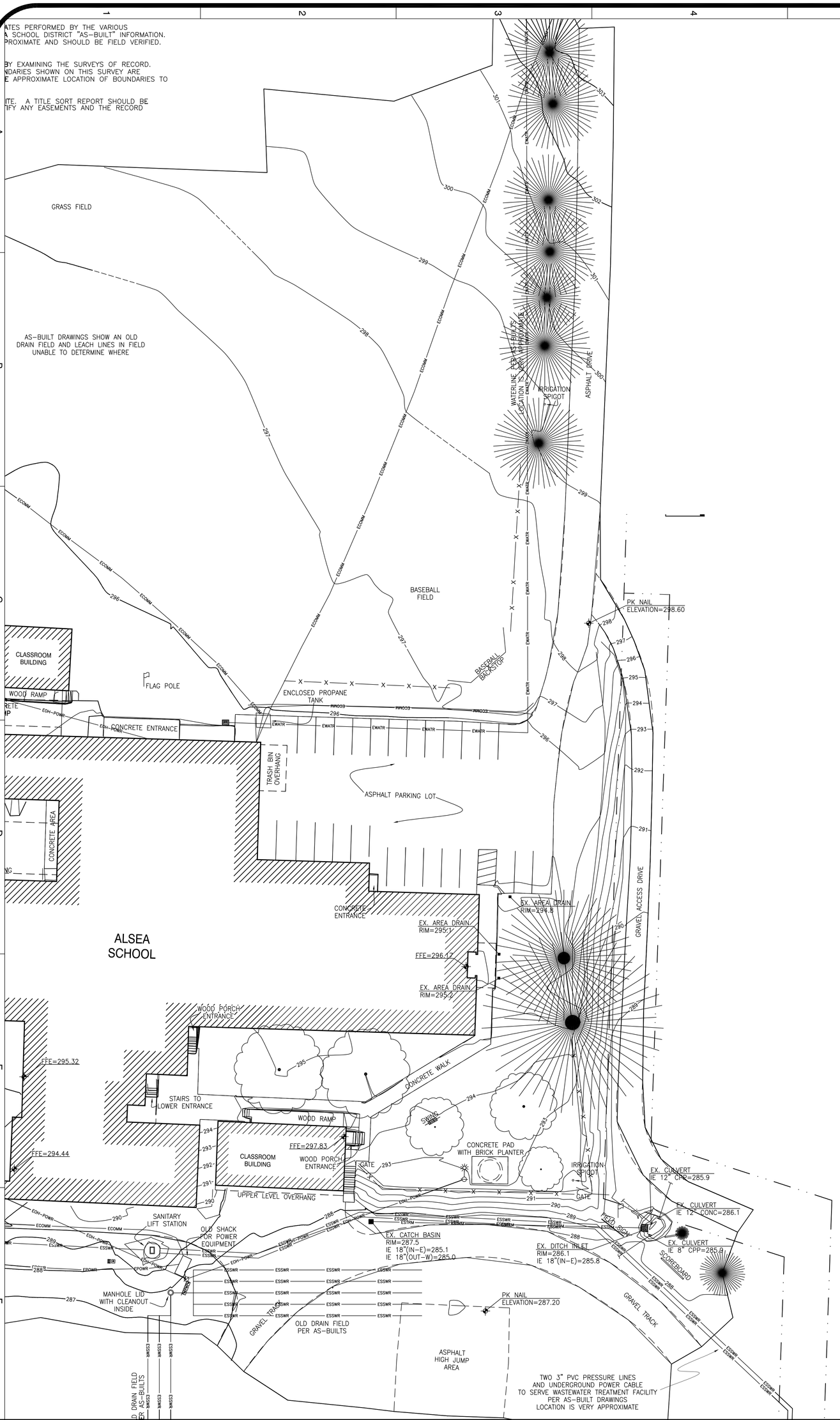
DRAWN BY: KRS
DATE: FEBRUARY 2, 2021
SCALE: 1" = 20'

COLE SURVEYING, LLC

ATES PERFORMED BY THE VARIOUS
A SCHOOL DISTRICT "AS-BUILT" INFORMATION.
PROXIMATE AND SHOULD BE FIELD VERIFIED.

BY EXAMINING THE SURVEYS OF RECORD.
NDARIES SHOWN ON THIS SURVEY ARE
E APPROXIMATE LOCATION OF BOUNDARIES TO

ITE. A TITLE SORT REPORT SHOULD BE
TIFY ANY EASEMENTS AND THE RECORD




FILE: 2808-ALSEA_SCHOOL_TOPO

PROJECT NO: 21-808

SHEET 2 of 2

PREPARED BY:
COLE SURVEYING, LLC
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(541) 929-5500

C-2

# ALSEA SHOOL
# TOPOGRAPHIC SURVEY

## ALSEA, OREGON

DRAWN BY: KRS

DATE: FEBRUARY 2, 2021

SCALE: 1" = 20'

COLE SURVEYING, LLC

## NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 10. The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

**Base map** information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by the State of Oregon and Benton County GIS Department. This information was compiled from Benton County (2007), Oregon Water Resources Department (2006), OR/WA Bureau of Land Management (2000), U.S. Fish and Wildlife Service (2008), NGS (2007), and USDA-FSA (2005) at a scale of 1:24,000.

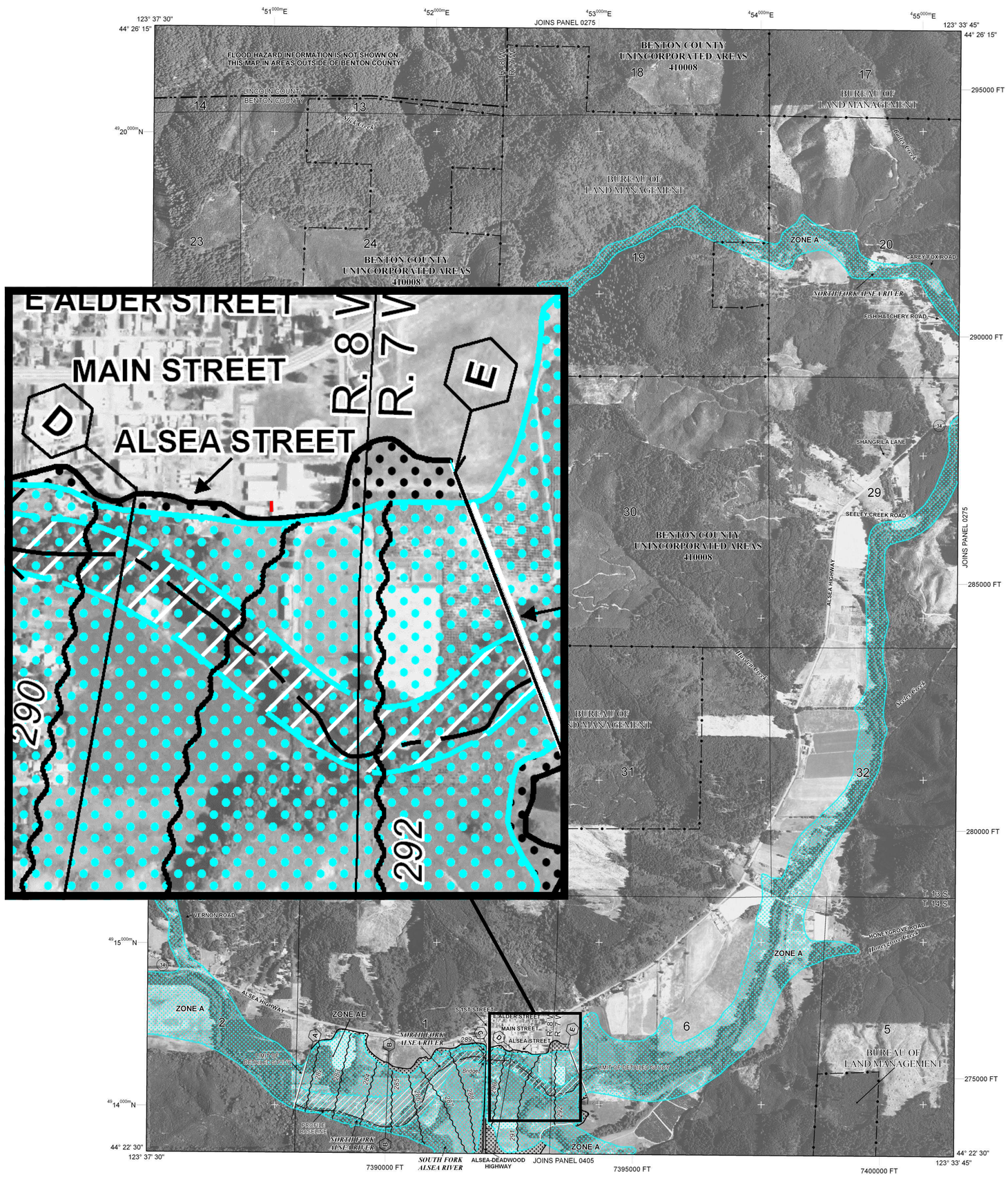
The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1- 877- FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.




## LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

| | |
|---|---|
| **ZONE A** | No Base Flood Elevations determined. |
| **ZONE AE** | Base Flood Elevations determined. |
| **ZONE AH** | Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. |
| **ZONE AO** | Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. |
| **ZONE AR** | Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood. |
| **ZONE A99** | Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined. |
| **ZONE V** | Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined. |
| **ZONE VE** | Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined. |

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

| | |
|---|---|
| **ZONE X** | Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. |

OTHER AREAS

| | |
|---|---|
| **ZONE X** | Areas determined to be outside the 0.2% annual chance floodplain. |
| **ZONE D** | Areas in which flood hazards are undetermined, but possible. |

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

| | |
|---|---|
| | 1% Annual Chance Floodplain Boundary |
| | 0.2% Annual Chance Floodplain Boundary |
| | Floodway boundary |
| | Zone D boundary |
| | CBRS and OPA boundary |
| | Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. |
| 513 | Base Flood Elevation line and value; elevation in feet* |
| (EL 987) | Base Flood Elevation value where uniform within zone; elevation in feet* |

*Referenced to the North American Vertical Datum of 1988

| | |
|---|---|
| A — A | Cross section line |
| 23 — 23 | Transect line |
| 45° 02' 08", 93° 02' 12" | Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere |
| 3100000 FT | 5000-foot ticks: Oregon State Plane North Zone (FIPS Zone 3601), Lambert Conformal Conic projection |
| 4980000mN | 1000-meter Universal Transverse Mercator grid values, zone 10N |
| DX5510 × | Bench mark (see explanation in Notes to Users section of this FIRM panel) |
| M1.5 | River Mile |

MAP REPOSITORIES
Refer to Map Repositories list on Map Index
EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
JUNE 2, 2011
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0265F

# FIRM

## FLOOD INSURANCE RATE MAP

## BENTON COUNTY, OREGON AND INCORPORATED AREAS

**PANEL 265 OF 495**
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

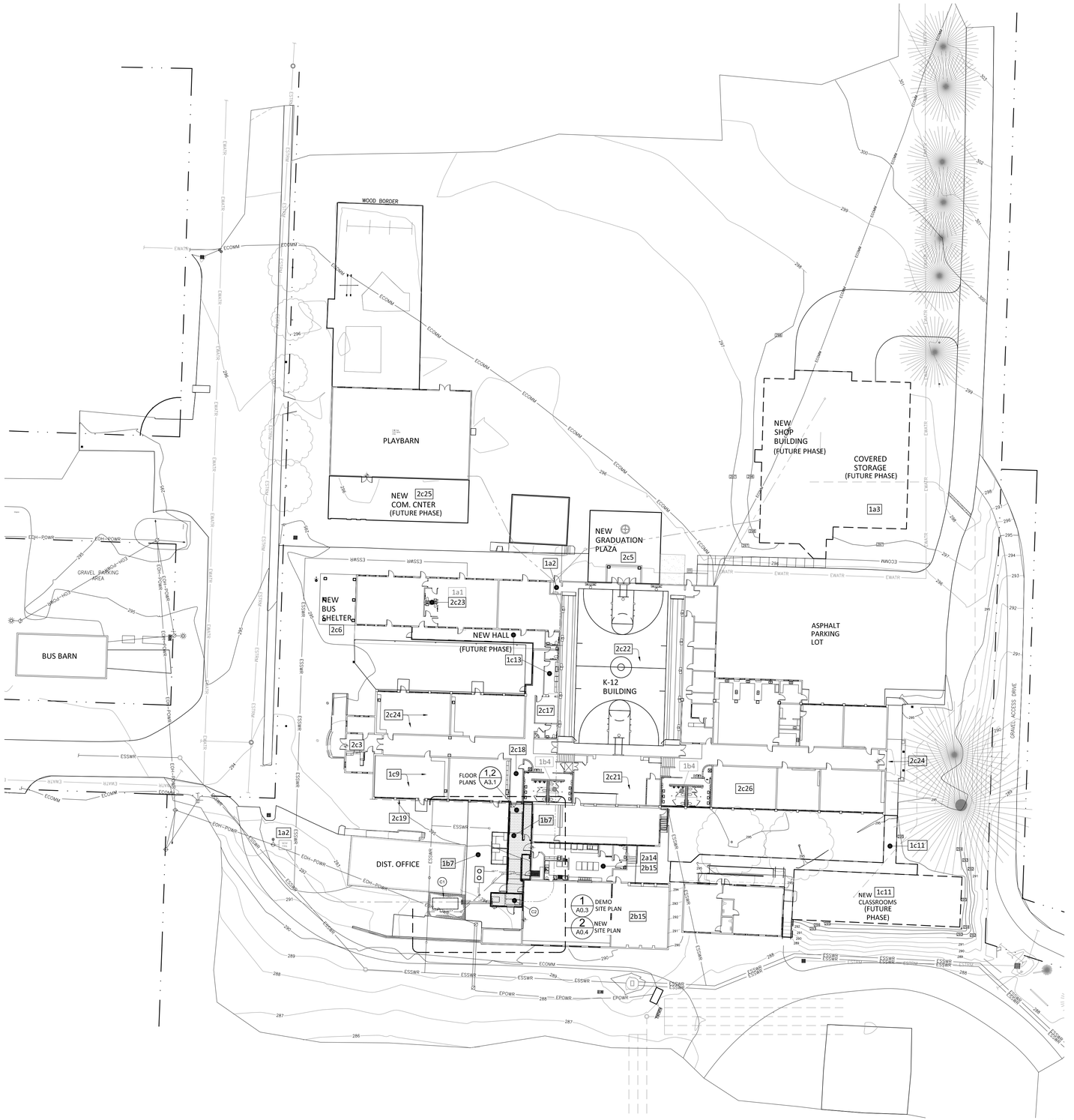
| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| BENTON COUNTY | 410008 | 0265 | F |

# FP-1

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**
**41003C0265F**
**EFFECTIVE DATE**
**JUNE 2, 2011**

Federal Emergency Management Agency




1 A0.2 Site Plan: Phasing & Reference

SCALE: 1" = 30'-0"

## General Notes

APPLICABLE TO THIS SHEET ONLY

1 - see Architectural Site Plan sheets for site details and grading.

2 - see Architectural Site Plan for existing & new topography.

3 - see Architectural Site Plan & electrical sheets for site lighting, underground sleeves, conductors & electrical conduits.

4 - landscape irrigation contractor shall provide sleeves for underground irrigation system

| | |
|---|---|
| (X") | Height Above Fin. Floor |
| (TYP) | Typical (x)=## |
| (NIC) | Not In Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |

## Legend

HATCHED AREAS:

AREAS HATCHED ON THIS SHEET SHOW AREAS OF NEW & EXISTING BUILDINGS IN THE SCOPE OF THIS DOCUMENT. ENLARGED SITE PLAN (AS REFERENCED) SHOW REQUIRED SITE WORK IN THIS SCOPE AS DEFINED.

## Phasing Narrative & Notation

DATES BELOW REFLECT CONSTRUCTION START TIMES.
SEE 'BOND PROJECT SCHEDULE' FOR OVERALL PROJECT DURATIONS

**ALL EXISTING & NEW CONSTRUCTION LISTED BELOW IS GRAPHICALLY SHOWN ON THIS PLAN FOR REFERENCE PURPOSES ONLY**

### 2021 - SPRING

- 1a1 SCOPE EXISTING SEWER

### 2021 - SUMMER

- 1b4 STUDENT TOILET REMODELS

### 2021 - WINTER / EARLY SPRING

- 1b7 NEW PANEL ROOM & CAFETERIA HALLWAY
- 1c9 HVAC CLASSROOM UPGRADES
- 1a3 NEW VOC/CTIL SHOP & COVERED EXPANSION AREA
- 1c11 NEW JR. HIGH CLASSROOMS 6-8TH & COVERED WALK

### 2022 - LATE SPRING

- 1a2 NEW POWER SERVICE CONSTRUCTION
- 2c22 HVAC AT GYMNASIUM
- 1c13 NEW HALL AT METAL BUILDING & TEACHERS BREAK

### 2022 - SUMMER BREAK

- 2a14 OLD BOILER ROOM DEMOLITION
- 2c3 FRONT OFFICE REMODEL
- 2c5 GRADUATION PLAZA & GYM ENTRY
- 2c6 STUDENT COVERED BUS WAITING
- 2c17 TEACHERS BREAK REMODEL
- 2c18 CONNECTION HALL THRU CLASSROOM
- 2c19 SELECT WINDOW REPLACEMENT
- 2c21 LOCKER ROOM REMODELS
- 2c23 METAL BUILDING TOILET ROOM RE-PURPOSE
- 2c24 INFRASTRUCTURE IMPROVEMENTS

### 2022 - FALL

- 2b15 CAFETERIA & KITCHEN RE-PURPOSE
- 2c25 COMMUNITY CENTER ADDITION

### 2022 - WINTER

- 2c26 OLD KITCHEN CLASSROOM RE-PURPOSE

## Phase Coordination Notes

*Applicable to this Sheet only*

*NOTE: THE FOLLOWING NOTES APPLY TO FUTURE PHASED WORK THAT MAY IMPACT OR REQUIRE COORDINATION WITH THE CURRENT PHASE OF WORK.*

**DO NOT BID THE FOLLOWING WORK:**

C1 FUTURE EMERGENCY / BACK UP GENERATOR - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'

C2 FUTURE ELECTRICAL EQUIPMENT & PANELS - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO
5794
STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
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P: 208.991.0855
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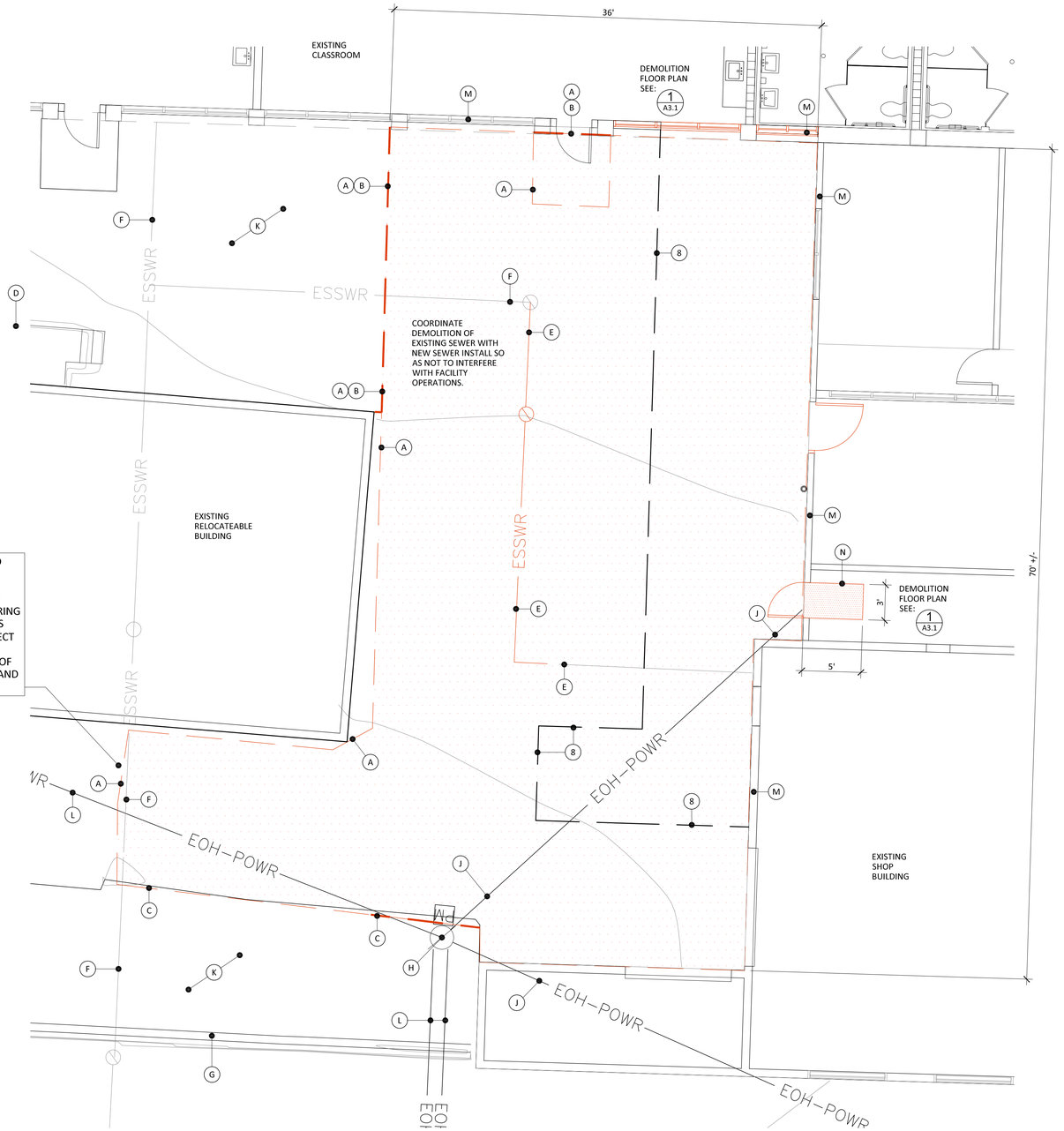
W: www.StraightlineArchitects.com


| | |
|---|---|
| Date: | 1-27-2022 |
| Project: | ALS-1821 |
| Version History: | V1.0 |
| PHASES (PH): | 1b.7 |
| ISSUE: | 2-1-22 |

AGENCY & BID ISSUE

DRAWING NO.
# A0.2
PANEL ROOM & NEW HALL PHASING SITE PLAN




**REQUIRED CONTRACTOR FIELD VERIFICATION:**

THE CONTRACTOR SHALL FIELD VERIFY SEWER LINE DEPTH DURING THE SITE DEMOLITION PROCESS AND NOTIFY CM/GC & ARCHITECT OF SEWER INVERT DEPTH FOR PURPOSES OF COORDINATION OF AND AND GREASE TRAP INLET AND OUTLET ELEVATIONS.

1 A0.3 Demolition Site Plan - Enlarged

SCALE: 3/16" = 1'-0"

NORTH

0 1' 5' 10' 15'

## General Notes

APPLICABLE TO THIS SHEET ONLY

1 - CROSS SLOPE ALL NEW EXTERIOR CONCRETE PAVING TO DRAIN

2 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPING TO ITS ORIGINAL CONDITION AT PROJECT COMPLETION.

3 - PROJECT STAGING AREA AND SITE ACCESS WILL BE DISCUSSED AT THE ON-SITE PRE-BID MEETING

| | |
|---|---|
| (X") | Height Above Fin. Floor |
| (TYP) | Typical (x)=# |
| (NIC) | Not in Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |
| (FFE) | Existing Fin. Floor Elev. |
| (FF) | New Fin. Floor Elev. |
| (TOW) | Top of Foundation Wall |

## Legend

90.0 NEW ELEVATIONS

90.0 EXISTING ELEVATIONS

(S) SLOPE DIRECTION

## Keyed Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

DEMOLITION & EXISTING NOTES:

A (D) EXISTING ASPHALT PAVING & CONCRETE - DEMOLISH, AND READY FOR NEW CONSTRUCTION (2,650 SF +/-)

B SAW CUT - AT EXISTING ASPHALT PAVING. DO NOT OVER CUT.

C EDGE SAW CUT - SAW CUT NEW EDGE AT EXISTING CONCRETE PAVING. AND READY FOR INTERFACE OF NEW CONCRETE SLAB. DO NOT OVER CUT.

D (E) ADA RAMP - TO REMAIN, DO NOT DISTURB

E (D) / ABANDON SEWER - AS SHOWN, CAP OR INFILL ABANDONED SEWER OUTLET AS REQUIRED, COORDINATE WITH NEW SEWER LINE INSTALL.

F (E) SANITARY SEWER - AS SHOWN, DO NOT DISTURB

G (E) RETAINING WALL - AS SHOWN, DO NOT DISTURB

H (E) POWER POLE - TO REMAIN, DO NOT DISTURB

J (E) OVERHEAD POWER - DO NOT DISTURB, TO BE REMOVED UNDER FUTURE PHASE

K (E) ASPHALT PAVING - DO NOT DISTURB

L (E) OVERHEAD POWER - TO REMAIN, DO NOT DISTURB

M (E) BUILDING - DO NOT DISTURB

N SAW CUT FLOOR - AT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW SEWER LINE STUBS

NEW WORK NOTES:

1 (N) CONC. PAVING - NEW 4" CONC. PAVING, 3500 PSI, SLOPE AS INDICATED, CROSS SLOPE TO DRAIN, OVER 4" GRAVEL FILL COURSE AND COMPACTED BASE

2 (2 / AD1.4) MATCH FLUSH - NEW CONCRETE PAVING SHALL MATCH FLUSH WITH EXISTING ASPHALT / CONCRETE PAVING

3 (1.2 / AD1.0) (N) SAND & GREASE INTERCEPTOR

4 (N) SANITARY SEWER LINES - (2) 3" ABS/PVC ROUTE AS SHOWN, QUANTITY AS INDICATED. PROVIDE CLEAN-OUTS AS REQUIRED.

5 STUB & CAP - CAP SEWER LINES FOR FUTURE EXTENSION TO NEW KITCHEN LOCATION

6 SEWER INTERFACE - PROVIDE CONNECTION OF NEW SEWER TO EXISTING UNDERGROUND SEWER AS SHOWN.

7 (N) ELECTRICAL SERVICE CONDUITS - **(6)-4", VERIFY QUANTITY & SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE. THESE CONDUITS SHALL BE UTILIZED FOR FUTURE POWER SERVICE CONDUCTORS TO BE INSTALLED DURING PHASE 1a.2 POWER SERVICE UPGRADE

8 LINE OF BUILDING ADDITION - SEE NEW FLOOR PLAN

9 (2 / AD1.4) SLAB DOWEL - DOWEL NEW CONCRETE INTO EXISTING SLAB, SEE DETAIL

10 GRAVEL - 3/4" +/- COMPACT GRAVEL FLUSH WITH ADJACENT EXISTING CONCRETE FLOOR SLAB, READY FOR FUTURE SEWER EXTENSION.

11 VERIFY ELEVATION - VERIFY NEW FINISH FLOOR ELEVATION TO MATCH EXISTING BUILDING ELEVATION.

12 (N) GENERATOR CONDUITS - **(6)-4" & (3)-1", VERIFY QUANTITY AND SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE. STUB UP AT GRAVEL FOR FUTURE GENERATOR CONNECTION. (GENERATOR TO BE INSTALLED IN THE FUTURE)

13 TOE DOWN EDGE OF CONCRETE SLAB - VERIFY NEW FINISH FLOOR ELEVATION TO MATCH EXISTING BUILDING ELEVATION.

14 (N) GENERATOR CONTROLS CONDUIT - (3)-1", **VERIFY QUANTITY AND SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE, STUB UP AT GRAVEL FOR FUTURE GENERATOR CONNECTION. (GENERATOR TO BE INSTALLED IN THE FUTURE)

15 (2 / AD1.3) 4" COMPACTED GRAVEL - 3/4" +/- COMPACT GRAVEL 3" BELOW ADJACENT CONCRETE.

16 EXISTING / NEW SEWER LINE INTERFACE - CONNECT EXISTING SANITARY SEWER LINE INTO NEW SEWER LINE AS REQUIRED.

17 (1 / AD1.3) SLAB DOWEL - DOWEL NEW CONCRETE ASPHALT PAVING INTO EXISTING CONCRETE WALL, SEE DETAIL

18 (3 / AD1.3) THICKENED CONCRETE EDGE - SEE DETAIL REFERENCE

## Phase Coordination Notes

*Applicable to this Sheet only*

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**DO NOT BID THE FOLLOWING WORK:**

C1 FUTURE EMERGENCY / BACK UP GENERATOR - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'

C2 FUTURE ELECTRICAL EQUIPMENT & PANELS - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
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1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

AGENCY & BID ISSUE

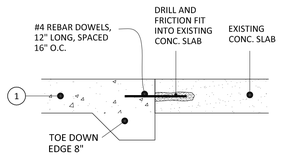
DRAWING NO.

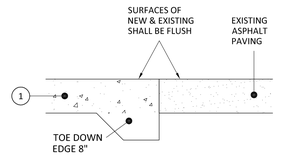
A0.3

ENLARGED DEMOLITION SITE PLAN


**REQUIRED CONTRACTOR FIELD VERIFICATION:**

THE CONTRACTOR SHALL FIELD VERIFY SEWER LINE DEPTH DURING THE SITE DEMOLITION PROCESS AND NOTIFY CM/GC & ARCHITECT OF SEWER INVERT DEPTH FOR PURPOSES OF COORDINATION OF AND AND GREASE TRAP INLET AND OUTLET ELEVATIONS.




1 A0.4 New Site Plan - Enlarged
SCALE: 3/16" = 1'-0"

NORTH

0 1' 5' 10' 15

2 A0.4 Slab Dowel Detail (E)
SCALE: 3" = 1'-0"

2 A0.4 Concrete & Asphalt Interface
SCALE: 3" = 1'-0"

## General Notes

APPLICABLE TO THIS SHEET ONLY

1 - CROSS SLOPE ALL NEW EXTERIOR CONCRETE PAVING TO DRAIN

2 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPING TO ITS ORIGINAL CONDITION AT PROJECT COMPLETION.

3 - PROJECT STAGING AREA AND SITE ACCESS WILL BE DISCUSSED AT THE ON-SITE PRE-BID MEETING

| | |
|---|---|
| (X") | Height Above Fin. Floor |
| (TYP) | Typical (x)=# |
| (NIC) | Not in Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |
| (FFE) | Existing Fin. Floor Elev. |
| (FF) | New Fin. Floor Elev. |
| (TOW) | Top of Foundation Wall |

## Legend

90.0 NEW ELEVATIONS
90.0 EXISTING ELEVATIONS
(S) SLOPE DIRECTION

## Keyed Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

DEMOLITION & EXISTING NOTES:

A. (D) EXISTING ASPHALT PAVING & CONCRETE - DEMOLISH, AND READY FOR NEW CONSTRUCTION (2,650 SF +/-)
B. SAW CUT - AT EXISTING ASPHALT PAVING. DO NOT OVER CUT.
C. EDGE SAW CUT - SAW CUT NEW EDGE AT EXISTING CONCRETE PAVING, AND READY FOR INTERFACE OF NEW CONCRETE SLAB. DO NOT OVER CUT.
D. (E) ADA RAMP - TO REMAIN, DO NOT DISTURB
E. (D) / ABANDON SEWER - AS SHOWN, CAP OR INFILL ABANDONED SEWER OUTLET AS REQUIRED, COORDINATE WITH NEW SEWER LINE INSTALL.
F. (E) SANITARY SEWER - AS SHOWN, DO NOT DISTURB
G. (E) RETAINING WALL - AS SHOWN, DO NOT DISTURB
H. (E) POWER POLE - TO REMAIN, DO NOT DISTURB
J. (E) OVERHEAD POWER - DO NOT DISTURB, TO BE REMOVED UNDER FUTURE PHASE
K. (E) ASPHALT PAVING - DO NOT DISTURB
L. (E) OVERHEAD POWER - TO REMAIN, DO NOT DISTURB
M. (E) BUILDING - DO NOT DISTURB
N. SAW CUT FLOOR - AT EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW SEWER LINE STUBS

NEW WORK NOTES:

1. (N) CONC. PAVING - NEW 4" CONC. PAVING, 3500 PSI, SLOPE AS INDICATED, CROSS SLOPE TO DRAIN, OVER 4" GRAVEL FILL COURSE AND COMPACTED BASE
2. 2 A0.4 MATCH FLUSH - NEW CONCRETE PAVING SHALL MATCH FLUSH WITH EXISTING ASPHALT / CONCRETE PAVING
3. 1.2 A0.6 (N) SAND & GREASE INTERCEPTOR
4. (N) SANITARY SEWER LINES - (2) 3" ABS/PVC ROUTE AS SHOWN, QUANTITY AS INDICATED. PROVIDE CLEAN-OUTS AS REQUIRED.
5. STUB & CAP - CAP SEWER LINES FOR FUTURE EXTENSION TO NEW KITCHEN LOCATION
6. SEWER INTERFACE - PROVIDE CONNECTION OF NEW SEWER TO EXISTING UNDERGROUND SEWER AS SHOWN.
7. (N) ELECTRICAL SERVICE CONDUITS - **(6)-4", VERIFY QUANTITY & SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE. THESE CONDUITS SHALL BE UTILIZED FOR FUTURE POWER SERVICE CONDUCTORS TO BE INSTALLED DURING PHASE 1a.2 POWER SERVICE UPGRADE
8. LINE OF BUILDING ADDITION - SEE NEW FLOOR PLAN
9. 2 A0.4 SLAB DOWEL - DOWEL NEW CONCRETE INTO EXISTING SLAB, SEE DETAIL
10. GRAVEL - 3/4" +/- COMPACT GRAVEL FLUSH WITH ADJACENT EXISTING CONCRETE FLOOR SLAB, READY FOR FUTURE SEWER EXTENSION.
11. VERIFY ELEVATION - VERIFY NEW FINISH FLOOR ELEVATION TO MATCH EXISTING BUILDING ELEVATION.
12. (N) GENERATOR CONDUITS - **(6)-4" & (3)-1", VERIFY QUANTITY AND SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE. STUB UP AT GRAVEL FOR FUTURE GENERATOR CONNECTION. (GENERATOR TO BE INSTALLED IN THE FUTURE)
13. TOE DOWN EDGE OF CONCRETE SLAB - VERIFY NEW FINISH FLOOR ELEVATION TO MATCH EXISTING BUILDING ELEVATION.
14. (N) GENERATOR CONTROLS CONDUIT - (3)-1", **VERIFY QUANTITY AND SIZE WITH ELECTRICAL SHEETS.** COORDINATE REQUIRED DEPTH WITH NEW SEWER LINE, STUB UP AT GRAVEL FOR FUTURE GENERATOR CONNECTION. (GENERATOR TO BE INSTALLED IN THE FUTURE)
15. 2 A0.5 4" COMPACTED GRAVEL - 3/4" +/- COMPACT GRAVEL 3" BELOW ADJACENT CONCRETE.
16. EXISTING / NEW SEWER LINE INTERFACE - CONNECT EXISTING SANITARY SEWER LINE INTO NEW SEWER LINE AS REQUIRED.
17. 1 A0.5 SLAB DOWEL - DOWEL NEW CONCRETE ASPHALT PAVING INTO EXISTING CONCRETE WALL, SEE DETAIL
18. 3 A0.5 THICKENED CONCRETE EDGE SEE DETAIL REFERENCE

## Phase Coordination Notes

*Applicable to this Sheet only*

*NOTE: THE FOLLOWING NOTES APPLY TO FUTURE PHASED WORK THAT MAY IMPACT OR REQUIRE COORDINATION WITH THE CURRENT PHASE OF WORK.*

**DO NOT BID THE FOLLOWING WORK:**

C1. FUTURE EMERGENCY / BACK UP GENERATOR - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'
C2. FUTURE ELECTRICAL EQUIPMENT & PANELS - TO BE INSTALLED DURING PHASE '1a2 - POWER SERVICE UPGRADE'


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

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Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.
A0.4
ENLARGED NEW SITE PLAN

GENERAL NOTES:

1. ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).
2. A copy of final approved construction drawings and any required permits shall be kept on-site at all times, for review by inspectors upon request.
3. The Contractor shall perform all work necessary to complete the project in accordance with the approved construction drawings including such incidentals as may be necessary to meet applicable agency requirements and provide a completed project.
4. Any inspection by the City, County or other agencies shall not, in any way, relieve the Contractor from any obligation to perform the work in strict compliance with the contract documents, applicable codes, and agency requirements.
5. Contractor shall maintain one complete set of approved drawings on the construction site at all times whereon he will record all approved deviations in construction from the approved drawings, as well as the station locations and depths of all existing utilities encountered. These field record drawings shall be kept up to date at all times and shall be available for inspection by the Authority Having Jurisdiction, the Architect, the Design Engineer and the Owner's Authorized Field Representative upon request. Failure to conform to this requirement may result in delay in payment and/or final acceptance of the project.
6. Upon completion of construction of all new facilities, Contractor shall submit a clean set of field record drawings containing all as-built information to the Engineer. All information shown on the Contractor's field record drawings shall be subject to verification. If significant errors or deviations are noted, an as-built survey prepared and stamped by a registered professional Land Surveyor shall be completed at the Contractor's expense.
7. The contractor shall retain and pay for the services of a registered Civil Engineer and/or Land Surveyor licensed in the State of Oregon to establish construction control and perform initial construction surveys to establish the lines and grades of improvements as indicated on the drawings. Staking for buildings, structures, curbs, gravity drainage pipes/structures and other critical improvements shall be completed using equipment accurate to 0.04 feet horizontally and 0.02 feet vertically, or better. Use of GPS equipment for final construction staking of these critical improvements is prohibited. The registered professional surveyor shall provide the design engineer with copies of all grade sheets for construction staking performed for the project.
8. See architectural and plumbing drawings for site dimensioning and continuation of all utilities.

TRAFFIC CONTROL

9. Contractor shall erect and maintain barricades, warning signs, traffic cones (and all other traffic control devices required) per City, County and ODOT requirements in accordance with the current MUTCD (including Oregon amendments). Access to driveways shall be maintained at all times. All traffic control measures shall be approved and in place prior to any construction activity. Prior to any work in the existing public right-of-way, Contractor shall submit final traffic control plan to the City, County and ODOT for review and issuance of a Lane Closure or Work in Right-of-Way Permit.

TESTING AND INSPECTION:

10. The Contractor shall be responsible to ensure that all required or necessary inspections are completed by authorized inspectors prior to proceeding with subsequent work which covers or that is dependent on the work to be inspected. Failure to obtain necessary inspection(s) and approval(s) shall result in the Contractor being fully responsible for all problems and/or corrective measures arising from uninspected work.
11. Unless otherwise specified, the "Required Testing and Frequency" table outlines the minimum testing schedule for the project. This testing schedule is not complete, and does not relieve the Contractor of the responsibility of obtaining all necessary inspections or observations for all work performed, regardless of who is responsible for payment. Cost for retesting shall be borne by the Contractor.

EXISTING UTILITIES & FACILITIES:

12. The location and descriptions of existing utilities shown on the drawings are compiled from available records and/or field surveys. The Engineer or utility companies do not guarantee the accuracy or the completeness of such records. Contractor shall field verify locations and sizes of all existing utilities prior to construction.
13. Contractor shall field verify location and depth of all existing utilities where new facilities cross. All utility crossings marked or shown on the drawings shall be potholed using hand tools or other non-invasive methods prior to excavating or boring. Contractor shall be responsible for exposing potential utility conflicts far enough ahead of construction to make necessary grade or alignment modifications without delaying the work. If grade or alignment modification is necessary, Contractor shall notify the Design Engineer and the Owner's Authorized Field Representative.
14. All facilities shall be maintained in-place by the Contractor unless otherwise shown or directed. Contractor shall take all precautions necessary to support, maintain, or otherwise protect existing utilities and other facilities at all times during construction. Contractor to leave existing facilities in an equal or better-than-original condition and to the satisfaction of the Architect and the Owner's Authorized Field Representative.
15. Utilities that are abandoned in place, or interfering portions of utilities, shall be removed by the Contractor to the extent necessary to accomplish the work. The Contractor shall plug the remaining exposed ends of abandoned utilities after appropriate verification procedures have taken place (grout or concrete plugs, if used, shall be installed to fill the full pipe diameter for a distance of two times the pipe diameter back from the pipe end).
16. Contractor shall remove all existing signs, mailboxes, fences, landscaping, etc., as required to avoid damage during construction and replace them to existing or better condition.
17. The Contractor shall be responsible for managing construction activities to ensure that public streets and right-of-ways are kept clean of mud, dust or debris. Dust abatement shall be maintained by adequate watering of the site by the Contractor.

GRADING, PAVING & DRAINAGE:

18. Unless otherwise noted, all grading, rocking and paving to conform to Oregon Standard Specifications for Construction (OSSC/ODOT/APWA), 2008 edition.
19. Strip work limits, removing all organic matter, which cannot be compacted into a stable mass. All trees, brush, and debris associated with clearing, stripping or grading shall be removed and disposed of off-site.
20. Immediately following stripping and grading operations, compact subgrade to 95% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Subgrade must be inspected and approved by the approved testing agency before placing embankments, engineered fills or fine grading for base rock.
21. Granular baserock shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate).
22. Compact granular baserock to 95% of the maximum dry density per AASHTO T-180 test method (Modified Proctor). Written baserock compaction test results from an independent testing laboratory must be received by the Owner's Authorized Field Representative before placing AC pavement.
23. Unless otherwise shown on the drawings or details, straight grades shall be run between all finish grade elevations and/or finish contour lines shown (exception: where grades shown cross sidewalks, slopes shall be adjusted to ensure that maximum allowable sidewalk cross slopes are not exceeded).
24. Finish pavement grades at transition to existing pavement shall match existing pavement grades or be feathered past joints with existing pavement as required to provide a smooth, free draining surface.
25. All existing or constructed manholes, cleanouts, monument boxes, gas valves, water valves and similar structures shall be adjusted to match finish grade of the pavement, sidewalk, landscaped area or median strip wherein they lie. Verify that all valve boxes and risers are clean and centered over the operating nut.

CURBS & SIDEWALKS:

26. Curb & sidewalk concrete shall be placed only during periods when it will not be damaged by rain (protect unhardened concrete from precipitation). Concrete shall not be placed on frozen baserock. Do not begin concrete placement until temperature in the shade is a minimum of 35°F and rising, and stop placement if air temperature falls below 35°F. Protect concrete from freezing for a minimum of 5 days after placement per OSSC (ODOT/APWA) 0000440.40.d & 00756.40 or the project specifications, whichever is more stringent.
27. Contraction joints shall be installed directly over any pipes that cross under the sidewalk, to control cracking. In general, cracks in new curbs or sidewalks (at locations other than contraction joints) are not acceptable, and cracked panels shall be removed & replaced unless otherwise approved by the City and the design engineer.
28. Where trench excavation requires removal of PCC curbs and/or sidewalks, the curbs and/or sidewalks shall be sawcut and removed at a tooled joint unless otherwise authorized in writing by the City. The sawcut lines shown on the drawings are schematic and not intended to show the exact alignment of such cuts.

PIPED UTILITIES:

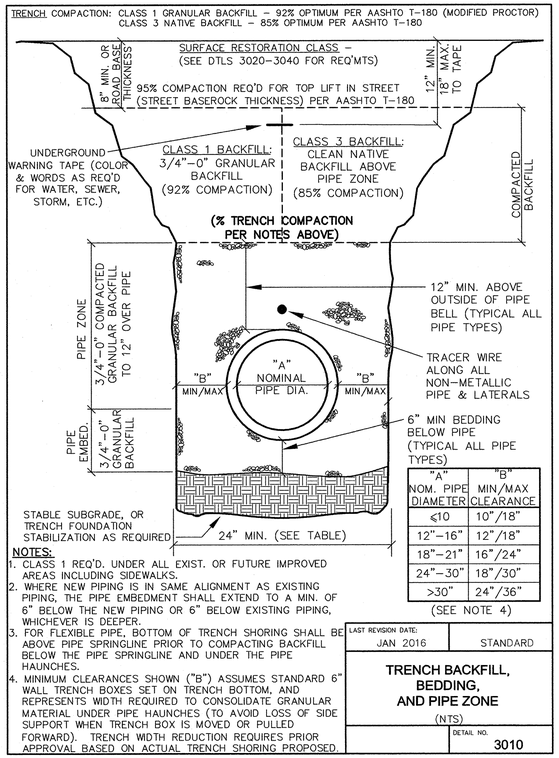
29. The Contractor shall have appropriate equipment on site to produce a firm, smooth, undisturbed subgrade at the trench bottom, true to grade. The bottom of the trench excavation shall be shall be smooth, free of loose materials or tooth grooves for the entire width of the trench prior to placing the granular bedding material.
30. All pipes shall be bedded with minimum 6-inches of 3/4"-0 crushed rock bedding and backfilled with compacted 3/4"-0 crushed rock in the pipe zone (crushed rock shall extend a minimum of 12-inches over the top of the pipe in all cases). Unless CLSM, CDF or other backfill is shown or noted on the drawings, crushed rock trench backfill shall be used under all improved areas, including pavement, sidewalks, foundation slabs, buildings, etc.
31. Granular trench bedding and backfill shall conform to the requirements of OSSC (ODOT/APWA) 02630.10 (Dense Graded Base Aggregate), 3/4"-0. Unless otherwise shown on the drawings, compact granular backfill to 92% of the maximum dry density per AASHTO T-180 test method (Modified Proctor).
32. All piped utilities abandoned in place shall have all openings closed with concrete plugs with a minimum length equal to 2 times the diameter of the abandoned pipe.
33. No trenches in sidewalks, roads, or driveways shall be left in an open condition overnight. All such trenches shall be closed before the end of each workday and normal traffic and pedestrian flows restored.

WATER SYSTEM:

34. Water service lines shall be installed with a minimum 30-inch cover. Deeper depths may be required as shown on the drawings or to avoid obstructions.
35. Unless otherwise noted, water service pipe 3-inch and smaller on the private side of the meter shall be Schedule 40 PVC. Unless otherwise specified, private water service piping shall be hydrostatically pressure tested to a minimum of 150% of the maximum static pressure at the site. All materials and workmanship for all private water lines, including water lines located within any building envelope, shall be installed in conformance with Uniform Plumbing Code requirements. All water service pipe on the private side of the meter shall be installed by a licensed plumber in accordance with Uniform Plumbing Code requirements.
36. Pressure Testing. All waterlines, services and appurtenances shall be pressure tested for leakage. All testing shall conform to requirements as outlined in the specifications, City standards and/or testing forms. The hydrostatic test shall be performed with all service line corporation stops open and meter stops closed, and with all hydrant line valves open. Prior to the start of each pressure test, the position of all mainline valves, hydrant line valves and service line corporation stops in the test segment shall verified.

SANITARY SEWER SYSTEM:

37. Unless otherwise specifically noted on the drawings, manufactured fittings (tee or wye per local jurisdiction) shall be used for all lateral connections to new sewer mainlines.




| "A" NOM. PIPE DIAMETER | "B" MIN/MAX CLEARANCE |
|---|---|
| ≤10 | 10"/18" |
| 12"-16" | 12"/18" |
| 18"-21" | 16"/24" |
| 24"-30" | 18"/30" |
| >30" | 24"/36" |

NOTES:
1. CLASS 1 REQ'D. UNDER ALL EXIST. OR FUTURE IMPROVED AREAS INCLUDING SIDEWALKS.
2. WHERE NEW PIPING IS IN SAME ALIGNMENT AS EXISTING PIPING, THE PIPE EMBEDMENT SHALL EXTEND TO A MIN. OF 6" BELOW THE NEW PIPING OR 6" BELOW EXISTING PIPING, WHICHEVER IS DEEPER.
3. FOR FLEXIBLE PIPE, BOTTOM OF TRENCH SHORING SHALL BE ABOVE PIPE SPRINGLINE PRIOR TO COMPACTING BACKFILL BELOW THE PIPE SPRINGLINE AND UNDER THE PIPE HAUNCHES.
4. MINIMUM CLEARANCES SHOWN ("B") ASSUMES STANDARD 6" WALL TRENCH BOXES SET ON TRENCH BOTTOM, AND REPRESENTS WIDTH REQUIRED TO CONSOLIDATE GRANULAR MATERIAL UNDER PIPE HAUNCHES (TO AVOID LOSS OF SIDE SUPPORT WHEN TRENCH BOX IS MOVED OR PULLED FORWARD). TRENCH WIDTH REDUCTION REQUIRES PRIOR APPROVAL BASED ON ACTUAL TRENCH SHORING PROPOSED.

| LAST REVISION DATE: JAN 2016 | STANDARD |
|---|---|
| TRENCH BACKFILL, BEDDING, AND PIPE ZONE (NTS) | |
| | DETAIL NO. 3010 |

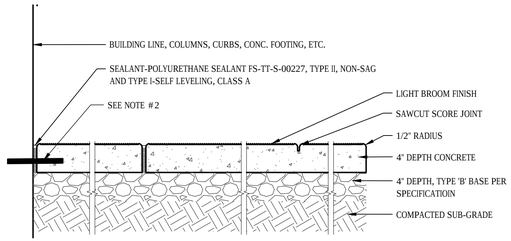
| REQUIRED TESTING AND FREQUENCY TABLE | | Party Responsible for payment: Contractor | Others (see note 1) |
|---|---|---|---|
| **Streets, Fire Lanes, Common Driveways, Parking Lots, Pads, Fills, etc.** | | | |
| Subgrade | 1 Test/4000 S.F./Lift (4 min) | ✓ See note 2 & note 3 | |
| Baserock | 1 Test/4000 S.F./Lift (4 min) | ✓ See note 2 & note 3 | |
| **Piped Utilities, All** | | | |
| Trench Backfill | 1 Test/200 Foot Trench/Lift (4 min) | ✓ See note 2 | |
| Trench AC Restoration | 1 Test/300 Foot Trench (4 min) | ✓ See note 2 | |
| **Water** | | | |
| Pressure Test | (to be witnessed by Owner's Representative or approving agency) | ✓ See note 4 | |
| **Sanitary Sewer** | | | |
| Air Test | Per City or APWA Requirements, whichever is more stringent | ✓ See note 4 | |
| **Concrete, Block, etc.** | | | |
| Slump, Air & Cylinders for all structures, curbs, sidewalks & PCC pavements. Unless otherwise specified, one set of cylinders per 100 cubic yards (or portion thereof) of concrete poured per day. Slump & air tests required on same load as cylinders. | | ✓ See note 2 | |

Note 1: "Others" refers to Owner or Approving Agency as applicable. Contractor responsible for scheduling testing. All testing must be completed prior to performing subsequent work.

Note 2: Testing must be performed by an approved independent testing laboratory.

Note 3: In addition to in-place density testing, the subgrade and base rock shall be proof-rolled with a loaded 10 yard dump truck provided by the Contractor. Baserock proofroll shall take place immediately prior to (within 24 hours of) paving, and shall be witnessed by the Owner's Authorized Field Representative or approving agency. Location and pattern of proofroll to be as directed by said Owner's Authorized Field Representative or approving agency.

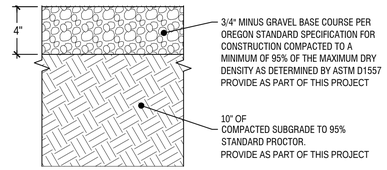
Note 4: To be witnessed by the Owner's Representative or approving agency. The Contractor shall perform pretests prior to scheduling witnessed waterline or sanitary sewer pressure tests, or pipeline mandrel test.



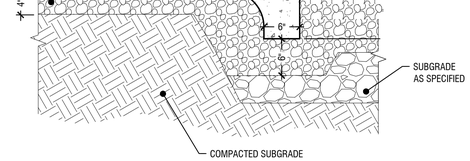

NOTES:
1. JOINTS SHALL BE SPACED EVENLY THROUGHOUT LENGTH OF WALK, AS SHOWN ON DRAWINGS.
2. ½" Ø x 12" LONG SMOOTH DOWEL @ 16" OC AT ALL BUILDING DOORWAYS - DRILL FOR TIGHT FIT.
3. THICKEN CONCRETE TO ACCEPT SMOOTH DOWEL AS NEEDED.

**1** Standard Concrete Flatwork
Scale: 1" = 1'

NOTE: HOLD TOP OF 3/4" MINUS GRAVEL BASE COURSE 3" BELOW NEW CONCRETE FLATWORK AND 8" BELOW TOP OF FOUNDATION WALLS




**2** Compacted Sub-Base and Aggregate Section
Scale: NTS




**3** **Thickened Edge Sidewalk** / Standard Concrete Flatwork
Scale: NTS

ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION
PROJECT SITE: 301 SOUTH 3rd STREET ALSEA, OREGON 97324

CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road, Suite 102 - Boise, Idaho 83709
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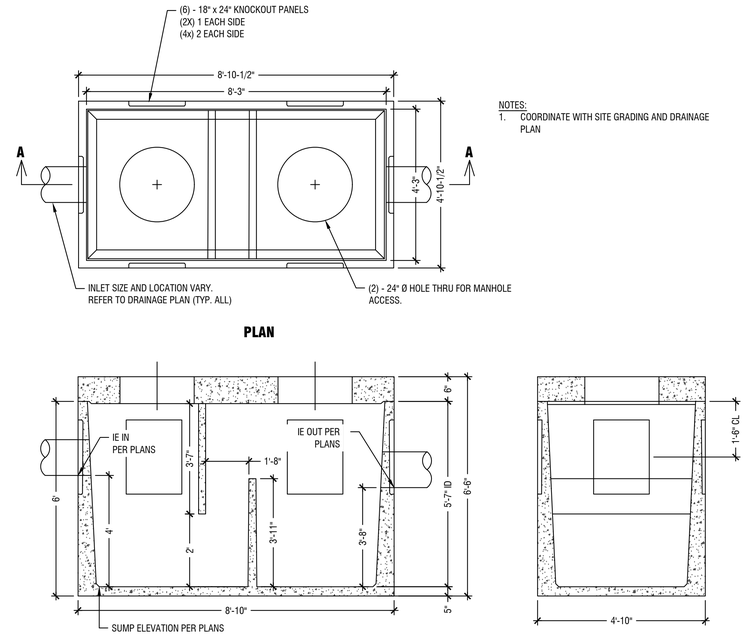
Date: 1-12-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH):

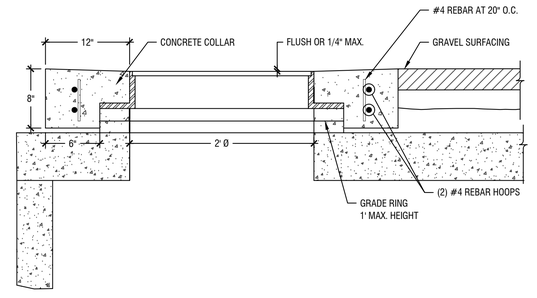
ISSUE: 1-12-21
AGENCY & BID ISSUE

DRAWING NO.
A0.5
SITE DETAILS & SPECIFICATIONS




## 1 Oldcastle 1000 Gal. S/G Trap

Scale: NTS




## 2 Concrete Collar

Scale: NTS

ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

CB Construction
1202 Adams Avenue
LaGrande, OR 97850

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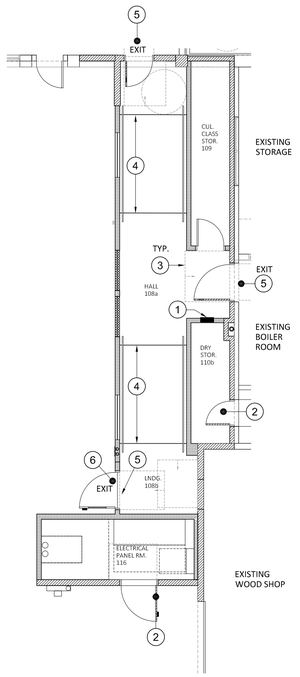
Date: 1-12-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH):

ISSUE: 1-12-21

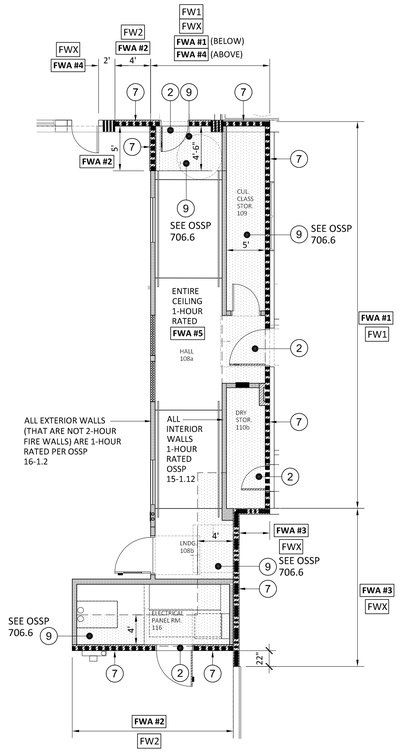
AGENCY & BID ISSUE

DRAWING NO.
A0.6
SITE DETAILS
GREASE TRAP

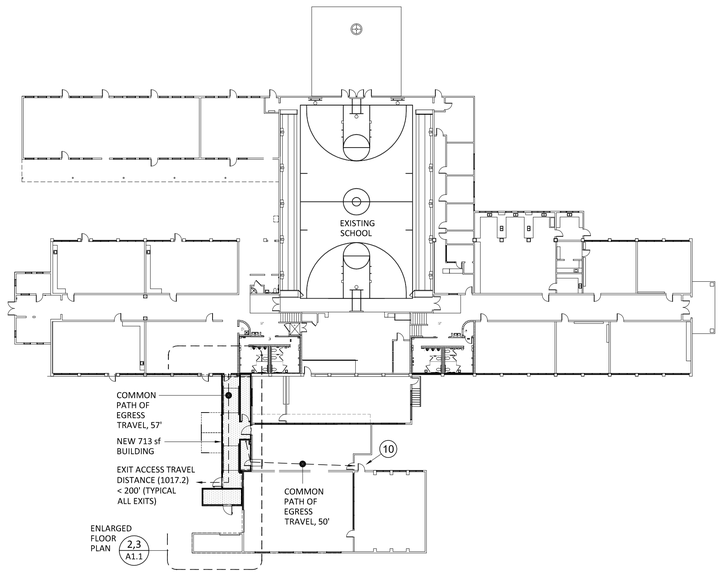



2 A1.1 Code Analysis - New Addition

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




3 A1.1 Fire Walls & Assemblies




1 A1.1 Code Analysis Phase 1b.7 - Overall Building Floor Plan & Egress Plan

SCALE: 1/32" = 1'-0"

## Keyed Notes

1. (N) FIRE EXTINGUISHER CABINET (FEC) - SEMI-RECESSED, NEW
2. RATED DOOR OPENING AT 2-HOUR FIRE WALL - ¾" RATED DOOR OPENING (FRAME & DOOR)
3. ADA CLEARANCES - RADIUS & DOOR APPROACH
4. ADA RAMP & HANDRAILS - 1:12 SLOPE RAMP WITH COMPLIANT LANDINGS AND HANDRAILS, SEE FLOOR PLAN.
5. EXIT SIGNAGE - WITH INTERIOR EMERGENCY LIGHTING, SEE ELECTRICAL PLANS.
6. EXTERIOR EMERGENCY EXIT LIGHTING - SEE EXTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS.
7. FIRE WALL - AS INDICATED, SEE FIRE WALL ASSEMBLIES
8. FIRE RATED CEILING / ROOF - AS INDICATED, SEE FIRE ASSEMBLIES
9. AREA OF CEILING JOIST LEDGERS & ROOF GYPSUM BOARD - (AREAS SHADED) 2" NOMINAL, SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6. (SEE NOTES ON THIS SHEET FOR MORE DETAILS)
10. EXISTING EXIT - THIS EXIT HAS EXISTING CODE COMPLIANT EXIT SIGNAGE

## Wall & Ceiling Types

6 / A A8.0 — INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE' X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 — EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 ½" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF ⅝" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 ½" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 ½" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 — **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF ⅝" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER ⅝" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 ⅞" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.

PROJECT NARRATIVE:

*THE ALSEA SCHOOL DISTRICT PASSED A BOND LEVY TO MAKE IMPROVEMENTS TO THEIR EXISTING FACILITY. DUE TO THE BUILDING BEING OCCUPIED DURING CONSTRUCTION ALONG WITH UPGRADING THE HVAC SYSTEM THE PROJECT IS BEING DONE IN PHASES. (SEE SHEET A0.2 FOR PROJECT PHASING).*

*THIS PROJECT PHASE 1b.7 IS TO CONSTRUCT A NEW MAIN ELECTRICAL ROOM AND CORRIDOR FROM THE EXISTING CLASSROOMS TO THE EXISTING WOOD SHOP. DURING FUTURE PHASES, THE EXISTING WOOD SHOP WILL BECOME THE CAFETERIA SPACE AT SUCH TIME A DOOR WILL BE ADDED TO PROVIDE ACCESS AND INTERCONNECTING HALLWAY WILL BE CONSTRUCTED IN THE CURRENT CLASSROOM.*

*THE CURRENT PROJECT INITIALLY ADHERES TO ALL EGRESS REQUIREMENTS AND WILL ADHERE TO ALL FUTURE EGRESS REQUIREMENTS ONCE ALL PHASES ARE COMPLETED.*

# BUILDING CODE COMPLIANCE SUMMARY
(NEW CONSTRUCTION)

## BUILDING CODES (Alsea, Oregon)

2019 Oregon Structural Specialty Code
2021 Oregon Plumbing Specialty Code
2019 Oregon Mechanical Specialty Code
2021 Oregon Electrical Specialty Code
2021 Oregon Energy Efficiency Specialty Code

SECTION 305 OSSC
Occupancy Groups: Educational: Group 'E'

Determined Construction Type: Type VA - non-Sprinkled, One Hour Rated, with Rated Building Elements

**TYPICAL INTERIOR WALLS:**
UL U305 / WP 3605 - (1) HOUR INTERIOR WALL RATING:

*5/8" Type 'X' Gypsum Board Board applied horizontally or vertically to each side of 2x4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or pre-decorated wall board may be left exposed. Joints staggered 16" on opposite sides.*

**TYPICAL EXTERIOR WALLS (NOT INDICATED AS FIRE WALLS):**
16-1.2 - WOOD STUDS - EXTERIOR WALLS

*2x6 Wood studs at 16" centers with double top plates and single bottom plate, interior side covered with ½" type 'X' gypsum board, 4' wide applied horizontally or vertically with vertical joints over studs and fastened with 2 ¼" type S drywall screws, spaced 12" on center, wall board joints covered with paper tape and joint compound, fastener heads covered with joint compound, exterior side covered with ⅞" wood structural panels fastened with 6D common nails (bright) spaced 12" on center in the field and 6" on center along panel edges. Fully insulate wall.*

| | | |
|---|---|---|
| SECTION 504 OSSC 'E', | Allowed Height, non-sprinkled | 40 ft. |
| | Actual Height, non-sprinkled | 11 ft. |
| | Allowed Stories above grade | 1 |
| | Actual Stories above grade | 1 |
| SECTION 506.2 OSSC 'E' | Allowed Area, non-sprinkled | 9,500 sq. ft. |
| | Actual Area, non-sprinkled | 783 sq. ft. |
| SECTION 903.2.3 OSSC 'E' | Fire sprinkler system not required as per Exception 2; in buildings where every classroom has not fewer than one exterior exit door at ground level, an automatic sprinkler system is not required in any area below the lowest level of exit discharge serving that area. | |

## ADDED OCCUPANT LOAD: AS PER OSSC 1004.1.2

| Space | Area. | S.F. / Occ. | Occupants |
|---|---|---|---|
| Accessory | 783 sf | 300 Gross | 2.61 |

## EGRESS

(1) EXIT PROVIDED

TABLE 1017.2 OSSC
Exit Access Travel with NO Fire Sprinklers at 'E' Occupancy, 200'

TABLE 1020.1 OSSC
Corridor fire resistance rating at 'E' occupancy with NO fire sprinklers, with an occupant load served by the Corridor 1-hour rating.

TABLE 1020.2 OSSC
Corridor minimum width at group 'E' with 100 occupants or more = 72" width minimum. (89" WIDTH ACTUAL)

PROJECT NARRATIVE:
EXISTING WOODSHOP TO BECOME NEW CAFETERIA SPACE. THIS

BUILDING ADDITION CONSTRUCTION SUMMARY:

| | |
|---|---|
| Exits | (1) total |
| Travel Distance | < 45 ft. to Exit or Horizontal Exit (Existing distance) |
| Doors | Min. 36" Leafs with Swing as Shown (Outswing Required Where Occupant Load Exceeds 50) |
| Door Hardware | ADA Compliant. (Panic Hardware Required Where Occupant Load Exceeds 50) |
| Accessibility | Accessible Route consisting of NEW ADA Compliant Entry and Doorway. |
| fire alarm system | new fire alarm components shall be extended into new addition space |
| exterior wall rating | 1-Hour |

OVERALL CODE CONSIDERATIONS:

ORS 469 / ORS 330 GREEN ENERGY TECHNOLOGY:

This building project is NOT required to comply with ORS 330.135.0018 (1.5% green energy technology) as capital construction will NOT be over $5,000,000 in overall cost.

ASHRAE 90.1 / ENERGY CODE

Energy code compliance is attached for new addition portion.

ORS 447.241 - BARRIER IMPROVEMENT

Every project for renovation, alteration or modification to affected buildings and related facilities that affects or could affect the usability of or access to an area containing a primary function shall be made to insure that, to the maximum extent feasible, the paths of travel to the altered area and the rest rooms, telephones and drinking fountains serving the altered area are readily accessible to and usable by individuals with disabilities, unless such alterations are disproportionate to the overall alterations in terms of cost and scope.

1 - Newly renovated work shown herein is considered a primary function and conforms to all ADA requirements.

2 - The new work does not impact nor infringe upon the existing accessible path of travel to any portions of the existing building.

## FIRE WALLS; 'E',
SECTION 706 OSSC

| | |
|---|---|
| General 503.1 | ...For purposes of determining area limitations, height limitation and type of construction, each portion of a building separated by one or more fire walls complying with section 706 shall be considered to be a separate building. |

THE NEW CONSTRUCTION SHOWN SHALL BE CONSIDERED A SEPARATE BUILDING FOR PURPOSES OF THIS ANALYSIS

| | |
|---|---|
| General 706.1 | Fire walls shall provide a complete separation. |

FIRE WALLS PROVIDE A COMPLETE SEPARATION FROM THE NEW CONSTRUCTION AND EXISTING STRUCTURE AS SHOWN HEREIN.

| | |
|---|---|
| Structural Stability 706.2 | Fire walls shall be designed so as to allow collapse of adjacent structure on either side of the wall without collapse of the wall under fire conditions. |

THE STRUCTURE BEYOND THE FIRE WALL WILL COLLAPSE WITHOUT ADJACENT STRUCTURE COLLAPSE AS ROOF AND OTHER SUPPORTIVE ELEMENTS DO NOT RELY ON EXISTING STRUCTURE FOR SUPPORT. .

| | |
|---|---|
| Materials 706.3 | Constructed with any approved non-combustable materials (Use of exception type V buildings). |

BOTH NEW AND EXISTING BUILDINGS ARE CONSIDERED AT TYPE 'V', HENCE COMBUSTIBLE MATERIALS SHALL BE ALLOWED IN FIRE ASSEMBLIES.

| | |
|---|---|
| Fire resistance Rating 706.4 | Per Table 706.4, Group 'E', Type 'V' footnote 'a' shall have a fire-resistance rating of (2) hours. |

AS PER TABLE 706.4, NOTE 'a' NEW CONSTRUCTION IS CONSIDERED TYPE 'V' AND EXISTING CONSTRUCTION IS CONSIDERED TYPE 'V', THEREFORE WALLS AND ASSOCIATED ASSEMBLIES SHALL BE 2-HOUR RATED.

| | |
|---|---|
| Horizontal Continuity 706.5 | Continuous from Exterior wall to exterior wall and shall extend 18" beyond exterior face. |

ALL FIRE WALLS SHOWN COMPLY WITH THE 18" EXTERIOR FACE EXTENSION REQUIREMENT.

| | |
|---|---|
| Exterior Walls 706.5.1 | Fire walls intersect exterior walls, fire resistance rating & opening protections shall be as follows: Exterior walls both sides of fire wall shall have 1-hour rating & 3/4-hour opening protection and shall extend 4' either side of wall. |

ALL NEW AND EXISTING DOOR OPENINGS WILL BE ¾" RATED. THE NEW FIRE WALL EXTENDS 4' ALONG EITHER SIDE OF THE WALL. THERE ARE NO WINDOWS OR OTHER OPENINGS OCCURRING WITHIN 4' OF THE FIRE WALL.

| | |
|---|---|
| Horizontal Projecting Elements 706.5.2 | Fire walls shall extend to the outer edge of horizontal projecting elements. Exception 1; Horizontal elements without concealed spaces, provided that the exterior wall behind and below the projecting element has not less than a 1-hour fire -resistance-rated construction for a distance not less than the depth of the projecting element on both sides of the fire wall. |

THE EXISTING LOWER ROOF OVERHANG HAS NO CONCEALED SPACES AND THE ADJACENT WALL IS 1 HOUR RATED.

| | |
|---|---|
| Vertical continuity 706.6 | fire walls shall extend from foundation to a termination point not less than 30" above both adjacent roofs. Exception 4; Type V building, 4.1 No openings in 4'-0" feet, 4.2 Roof is minimum Class B roof covering, 4.3, roof is protected with ⅝" type 'x' gyp bd. for 4'-0" each side of fire wall |

THE NEW ROOF CONFORMS TO EXCEPTION 4, THE NEW ROOF HAS NO OPENINGS WITHIN 4' OF THE FIREWALL, THE ROOF HAS A CLASS 'B' ROOF COVERING, THE ROOF SHEATHING IS PROTECTED WITH ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDERNEATH THE ROOF SHEATHING ATTACHED WITH 2" NOMINAL LEDGERS ATTACHED TO THE ROOF FRAMING STRUCTURE FOR A DISTANCE OF 4' FROM THE FIRE WALL.

| | |
|---|---|
| Stepped Buildings 706.6.1 | Where a Fire wall serves as an exterior wall and separates a building having two different roof levels, such wall shall terminate 30" above lower roof level. Exception 1, the lower roof assembly within 10' of the wall has not less than a 1 hour fire resistance rating and the entire length and span of supporting elements for the rated roof assembly has a fire resistance rating of not less than 1 hour. Exception 2, openings in the lower roof shall not be located 10' of the fire wall. |

THE NEW ROOF CONFORMS TO EXCEPTIONS 1 & 2, THE NEW LOWER ROOF ASSEMBLY HAS A FIRE RESISTANCE RATING OF 1-HOUR, AND THERE ARE NO OPENINGS WITHIN 10' OF THE FIRE WALL.

| | |
|---|---|
| Slope Roof Buildings 706.6.2 | Special rules apply if roof pitch is over 2:12. Existing roof pitch is 1:12 |

THE NEW ROOF HAS A ROOF PITCH OF ¼" = 1' THEREFORE NO SLOPED ROOF BUILDINGS REQUIREMENT IS NECESSARY.

| | |
|---|---|
| Openings 706.8 | Protect openings as per 716.5, and shall not exceed 156 s.f. and shall not exceed 25% of length of wall. |

THE FIREWALL HAS (3) PROTECTED OPENINGS (DOORS) TOTALING 70 SQUARE FEET. THE TOTAL FIRE WALL LENGTH IS 80'. THE COMBINED DOOR WIDTHS ARE 10' MAKING THE OPENINGS 8% OF THE FIRE WALL.

## RATED FIRE WALL ASSEMBLIES (FWA): OSSC SECTION 721.1(2)

**FWA #1 NEW (2) HOUR INTERIOR WALLS:**
14-1.5 - WOOD STUDS - INTERIOR PARTITION WITH GYPSUM WALLBOARD EACH SIDE

*2x4 wood studs at 16" on center with two layers of ⅝" type x gypsum wallboard each side. Base layers applied vertically and nailed with 6D cooler or wallboard nails at 9" on center. Face layer applied vertically or horizontally and nailed with 8D cooler or wallboard nails at 7" on center. for nail adhesive application, base layers are nailed 6" on center. Face layers applied with coating of approved wallboard adhesive and nailed 12" on center.*

**FWA #2 NEW (2) HOUR EXTERIOR WALLS:**
15-1.16 - WOOD STUDS - EXTERIOR OR INTERIOR WALLS

*2x6 wood studs at 24" centers with double top plates, single bottom plate; interior side covered with two layers of ⅝" type x gypsum wallboard, Exterior covered with two layers of ½" 1 hour rated dens-glass, 4' wide, applied horizontally with vertical joints over studs. Base layer fasted with 2 ¼" type s drywall screws, spaced 24" on center and face layer fastened with type s drywall screws spaces 8" on center. Wallboard joints covered with paper tape and joint compound fasten heads covered with joint compound. cavity to be filled with 5 ½" mineral wool insulation.*

**FWA #3 EXISTING (2+) HOUR EXTERIOR WALLS: CMU WALL 3-1.1, 8" THICK**

**FWA #4 EXISTING (2+) HOUR EXTERIOR WALLS: SOLID CONCRETE 16" THICK**

**FWA #5 (1) HOUR EXTERIOR ROOF & CEILING:**
21-1.1 - WOOD ROOF JOISTS - AT 24" o.c. WITH ¾" MINIMUM WOOD STRUCTURAL PANELS GLUED AND NAILED TO THE JOISTS BELOW

*Ceiling shall be (2) layers of ⅝" type 'X' Gypsum board. One base layer of ⅝" type 'X' Gypsum wallboard applied at right angles to joist at 24" o.c. with 1 ½" type S or type W drywall screws 24" o.c. Second face layer ⅝" type 'X' gypsum wallboard base applied at right angles to joist or truss through base layer with 1 ⅝" type S or Type W drywall screws 12" o.c. at joints and intermediate joist or truss. Face layer type G drywall screws placed 2" back on either side of face layer end joints. 12" o.c.*

REGISTERED ARCHITECT
SCOTT A. MARSHALL
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# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.
A1.1
Overall Code Analysis

## COMcheck Software Version COMcheckWeb
# Envelope Compliance Certificate

### Project Information

| | |
|---|---|
| Energy Code: | 90.1 (2019) Standard |
| Project Title: | 1b7 - ALSEA HALL ADDITION |
| Location: | Corvallis, Oregon |
| Climate Zone: | 4c |
| Project Type: | Addition |
| Vertical Glazing / Wall Area: | 20% |
| Performance Sim. Specs: | EnergyPlus 8.1.0.009 (EPW: USA_OR_Salem-McNary.Field.726940_TMY3.epw) |

Construction Site:
301 SOUTH 3RD STREET
ALSEA, Oregon 97324

Owner/Agent:
ALSEA SCHOOL DISTRICT
301 SOUTH 3RD STREET
ALSEA, Oregon 97324

Designer/Contractor:
SCOTT MARSHALL
STRAIGHTLINE ARCHITECTURE
4521 S CLOVERDALE RD, STE 102
BOISE, Idaho 83709
208-991-0855
SCOTT@STRAIGHTLINE.BIZ

| Building Area | Floor Area |
|---|---|
| 1-School/University : Nonresidential | 783 |

### Envelope Assemblies

| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor(a) |
|---|---|---|---|---|---|
| Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - School/University] (b) | 68 | --- | 15.0 | 0.520 | 0.520 |
| Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - School/University] | 783 | --- | 15.0 | 0.063 | 0.032 |
| NORTH | | | | | |
| Int. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University] | 131 | 27.0 | 0.0 | 0.054 | 0.089 |
| EAST | | | | | |
| Int. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University] | 563 | 27.0 | 0.0 | 0.054 | 0.089 |
| SOUTH | | | | | |
| Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University] | 91 | 27.0 | 0.0 | 0.055 | 0.064 |
| Door: Insulated Metal, Swinging, [Bldg. Use 1 - School/University] | 28 | --- | --- | 0.360 | 0.370 |
| WEST | | | | | |
| Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - School/University] | 523 | 27.0 | 0.0 | 0.055 | 0.064 |
| Door: Insulated Metal, Swinging, [Bldg. Use 1 - School/University] | 49 | --- | --- | 0.360 | 0.370 |
| Window: Vinyl Frame: Fixed, Perf. Type: Energy code default, Triple Pane with Low-E, Tinted , SHGC 0.34, VT 0.21, [Bldg. Use 1 - School/University] | 30 | --- | --- | 0.450 | 0.360 |
| Window: Metal Frame: Fixed, Perf. Type: Energy code default, Triple Pane with Low-E, Tinted , SHGC 0.42, VT 0.22, [Bldg. Use | 15 | --- | --- | 0.700 | 0.360 |



| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor(a) |
|---|---|---|---|---|---|
| 1 - School/University] | | | | | |

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

**Envelope PASSES: Design 0.1% better than code**

### Envelope Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2019) Standard requirements of COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SCOTT MARSHALL, AIA-NCARB — Name - Title
Scott Marshall — Signature
1-6-2022 — Date

## COMcheck Software Version COMcheckWeb
# Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Plan Review | Complies? | Comments/Assumptions |
|---|---|---|---|
| 4.2.2, 5.4.3.1.1, 5.7 [PR1][1] | Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

**Additional Comments/Assumptions:**

| Section # & Req.ID | Footing / Foundation Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|---|---|---|---|---|
| 4.2.4 [FO1][2] | Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. | R-____ | R-____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 4.2.4 [FO3][2] | Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. | R-____ ☐ Unheated ☐ Heated | R-____ ☐ Unheated ☐ Heated | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.1.2 [FO4][2] | Slab edge insulation installed per manufacturer's instructions. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.5.3.5 [FO5][2] | Slab edge insulation depth/length. | ____ ft | ____ ft | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.1.7 [FO6][1] | Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.7.3 [FO7][1] | Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 6.4.4.1.5 [FO11][3] | Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5. | R-____ | R-____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |

**Additional Comments/Assumptions:**

| Section # & Req.ID | Insulation Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|---|---|---|---|---|
| 4.2.4 [IN2][1] | Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection. | R-____ ☐ Above deck ☐ Metal ☐ Attic | R-____ ☐ Above deck ☐ Metal ☐ Attic | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.1.2, 5.8.1.3 [IN3][1] | Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 4.2.4 [IN6][1] | Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. | R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood | R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.1.2 [IN7][1] | Above-grade wall insulation installed per manufacturer's instructions. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 4.2.4 [IN8][2] | Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. | R-____ ☐ Mass ☐ Steel ☐ Wood | R-____ ☐ Mass ☐ Steel ☐ Wood | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.1.1 [IN10][2] | Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.9 [IN18][2] | Building envelope insulation extends over the full area of the component at the proposed rated R or U value. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.4 [IN11][2] | Eaves are baffled to deflect air to above the insulation. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.5 [IN12][2] | Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.6 [IN13][2] | Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.7.1 [IN15][2] | Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

| Section # & Req.ID | Framing / Rough-In Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|---|---|---|---|---|
| 5.4.2 [FR1][3] | Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.5.4.3a [FR8][1] | Vertical fenestration U-Factor. | U-____ | U-____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.5.4.3b [FR9][1] | Skylight fenestration U-Factor. | U-____ | U-____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.5.4.4.1 [FR10][1] | Vertical fenestration SHGC value. | SHGC:____ | SHGC:____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.5.4.4.2 [FR11][1] | Skylight SHGC value. | SHGC:____ | SHGC:____ | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2] | Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.2.2 [FR13][1] | Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.5.3.6 [FR14][2] | U-factor of opaque doors associated with the building thermal envelope meets requirements. | U-____ ☐ Swinging ☐ Nonswinging | U-____ ☐ Swinging ☐ Nonswinging | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | *See the Envelope Assemblies table for values.* |
| 5.4.3.1 [FR15][1] | Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

**Additional Comments/Assumptions:**

| Section # & Req.ID | Insulation Inspection | Plans Verified Value | Field Verified Value | Complies? | Comments/Assumptions |
|---|---|---|---|---|---|
| 5.8.1.7.2 [IN16][2] | Foundation vents do not interfere with insulation. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |
| 5.8.1.8 [IN17][3] | Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly. | | | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

**Additional Comments/Assumptions:**

| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|---|---|---|---|
| 5.4.3.2 [FI1][1] | Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable | |

**Additional Comments/Assumptions:**

## COMcheck Supplement
### 2021 Oregon Energy Efficiency Specialty Code Compliance

Include this supplement with the Oregon Energy Efficiency Specialty Code Compliance Checklist.

**Jurisdiction:**

**BUILDING INFORMATION**

Applicant name: SCOTT MARSHALL, AIA-NCARB Phone number: 208-991-0855
Project name: 1b.7 - POWER PANEL ROOM AND HALLWAY ADDITION
Address / location: 301 SOUTH 3rd STREET
City: ALSEA State: OR ZIP: 97324

☐ **Check here if not applicable and no items apply**

**COMPLIANCE**

**DATA CENTERS**

**ASHRAE 90.4-2019 compliance (Sections 6.2.2, 6.5.11, 8.2.1, and 8.5)** ■ **Check if not applicable**

| Mechanical design – Registered design professional | Power design – Registered design professional |
|---|---|
| Printed name: | Printed name: |
| Registration number: | Registration number: |
| Signature: Date | Signature: Date |

**SECTION 5: ENVELOPE COMPLIANCE**

**5.1.2.3: Unconditioned space with limited radiant heating** ■ **Check if not applicable**

(See Oregon amendment 6.5.8.3 HVAC)
☐ Space is identified on plans. Coverage area with limited radiant heating is identified on plans and the lesser of 500 ft² or 10% of floor area per 6.5.8.3
☐ Automatic controls for radiant spot heating per 6.5.8.3.
Plans and specs.:

**5.4.3.3: Vestibules: additional exception** ■ **Check if not applicable**

This project shall furnish a whole-building air leakage report in lieu of providing a vestibule per the following:
☐ Building is less than 25,000 ft².
☐ Reported whole-building air leakage testing per Section 5.4.3.1.1 is less than 0.30 cfm/ft².
☐ Plans and specifications shall identify building entry door(s) meeting this exception.
Responsible party to provide test results:

**SECTION 5: ENVELOPE COMPLIANCE...continued**

Plans and specs.:

Printed name / Registered design professional — Signature — Registration number — Date

**SECTION 6: HVAC**

**6.4.3.5.1: Packaged HVAC Equipment with Electric Heat** ■ **Check if not applicable**

☐ Packaged HVAC systems with less than 241,000 Btu/h cooling capacity, with electric heating capacity of 21,500 Btu/h or greater have heat pump operation for first stage of heating
Plans and specs.:

**6.5.8.3: Radiant Heating for Enclosed Unconditioned Spaces** ■ **Check if not applicable**

☐ Overhead radiant heating for occupied areas of the lesser of 500 ft² or 10% of floor area
☐ Automatic control: manual time switch or occupancy sensor
Plans and specs.:

**SECTION 8: POWER**

**8.4.2: Receptacle Control Exception** ■ **Check if not applicable**

Building is not providing controlled receptacles required per Section 8.4.2. Additional efficiency provided with the following method (select one)
☐ Performance Compliance report showing minimum 5% better performance than minimum
☐ Section 11 ECB report included **or** ☐ Appendix G report included
☐ COMcheck Envelope Compliance report showing minimum 3% passing or higher
☐ ASHRAE 90.1-2019 COMcheck forms included
☐ COMcheck Lighting report showing minimum 5% passing or higher
☐ ASHRAE 90.1-2019 COMcheck forms included

Printed name / Registered design professional — Signature — Registration number — Date

**SECTION 9: LIGHTING**

**9.4.3: Dwelling units** ■ **Check if not applicable**

☐ Dwelling units lighting with 100% high efficacy lamps
Plans and specs.:

BCD Building Codes Division — Department of Consumer and Business Services

Published by Building Codes Division – Aug. 16, 2021

[2]

SCOTT A. MARSHALL — REGISTERED ARCHITECT — BOISE, IDAHO 5794 — STATE OF OREGON

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

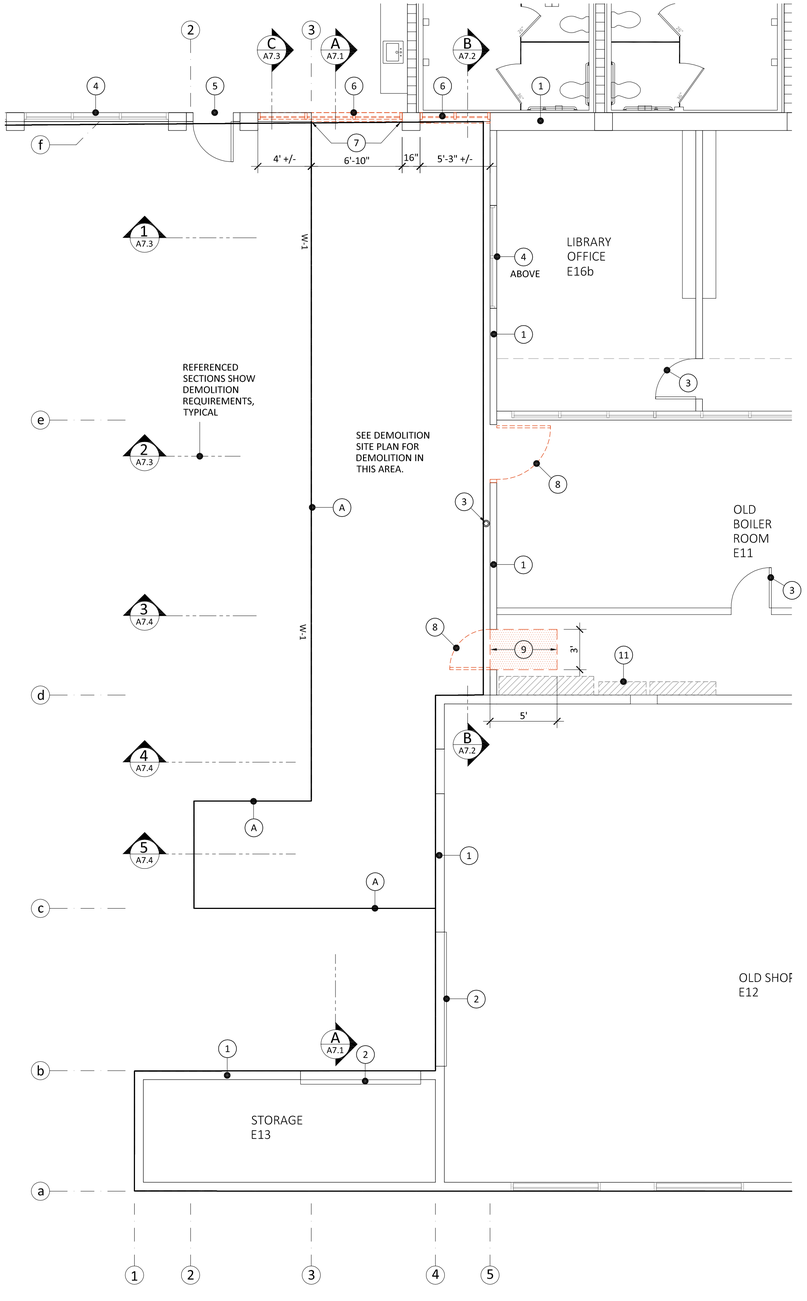
STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
Suite 102 - Boise, Idaho 83709
P: 208.991.0855
E: Scott@Straightline.biz
W: www.StraightlineArchitects.com


Date: 12-9-2021
Project: ALS-1821
Version History: V1.0
PHASES (PH):

ISSUE: 1-5-21

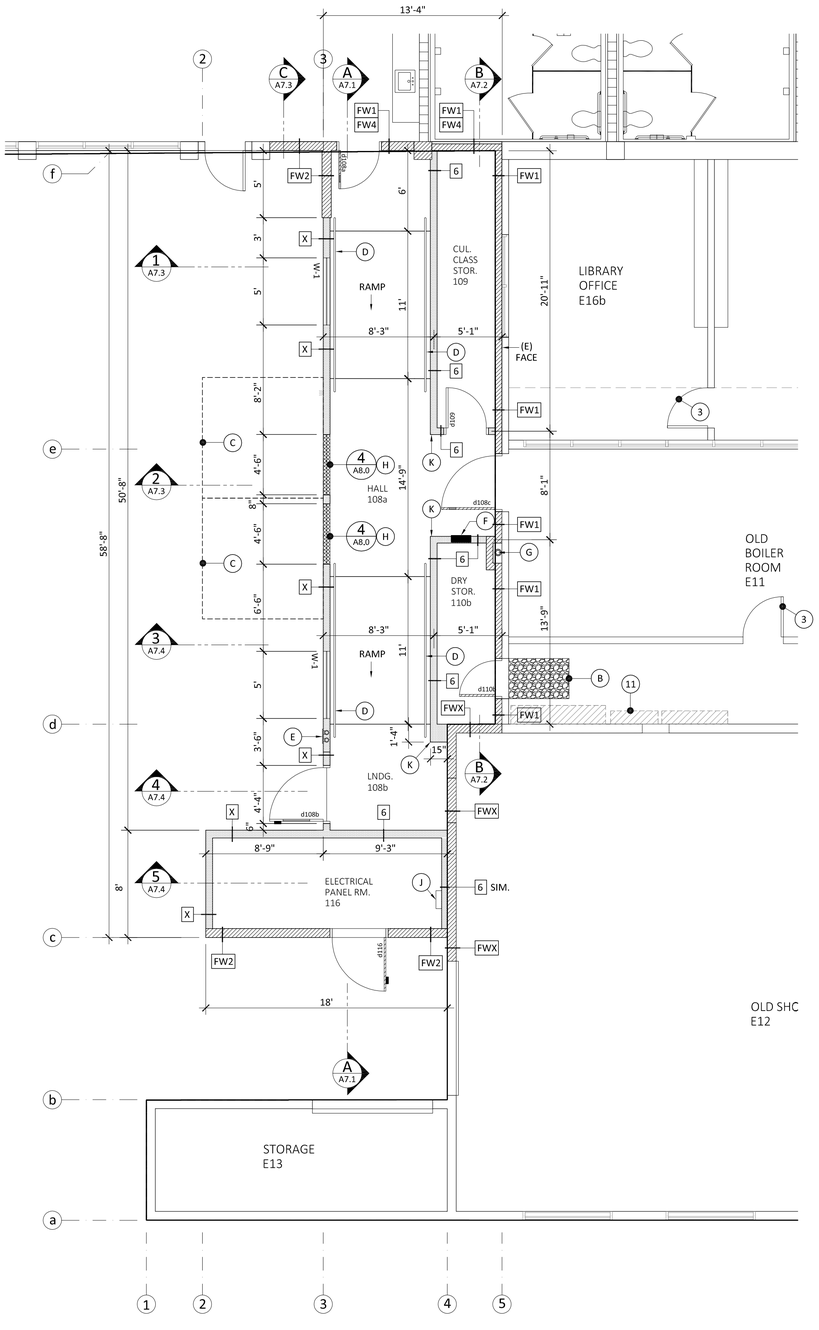
AGENCY & BID ISSUE

DRAWING NO.
A1.2
BUILDING ENVELOPE ENERGY COMPLIANCE




1 A3.1 **Floor Plan - Demolition**

SCALE: 3/16" = 1'-0"




2 A3.1 **Floor Plan - New Addition Plan**

SCALE: 3/16" = 1'-0"

# General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

# Reference Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

## EXISTNG & DEMOLITION

1. (E) BUILDING WALL - SEE SECTIONS FOR EXISTING WALL CONSTRUCTION
2. (E) OVERHEAD GARAGE DOOR - DO NOT DISTURB
3. (E) PLUMBING VENT - DO NOT DISTURB
4. (E) WINDOW - DO NOT DISTURB
5. (E) DOOR & OPENING - DO NOT DISTURB
6. (D) EXISTING METAL SASH WINDOW - READY FOR NEW CONSTRUCTION, SEE SECTIONS & EXTERIOR ELEVATIONS
7. (D) CONCRETE WALL - SAWCUT 8" THICK CONCRETE WALL (BELOW WINDOW) TO EXISTING FLOOR SLAB, DO NOT OVERCUT CORNERS. SEE SECTIONS & EXTERIOR ELEVATIONS
8. (D) DOOR & FRAME - READY OPENING FOR NEW OPENING OR DOOR AND FRAME, SEE NEW FLOOR PLAN
9. (D) FLOOR SLAB - SELECTIVELY SAW CUT & DEMOLISH EXISTING FLOOR SLAB AS SHOWN FOR NEW SEWER LINE ROUTING TO FUTURE KITCHEN.
10. (E) WINDOW - DO NOT DISTURB
11. (E) POWER PANELS - DO NOT DISTURB, TO BE REMOVED IN FUTURE PHASE WORK.

## NEW & RENNOVATED

- A. BUILDING LINE - LINE OF NEW BUILDING ADDITION.
- B. GRAVEL INFILL - FILL NEW CAPPED FUTURE KITCHEN SEWER LINE HOLE WITH GRAVEL FLUSH TO FACE OF ADJACENT CONCRETE SLAB.
- C. FUTURE WALK IN COOLERS - LINE OF FUTURE WALK IN COOLERS TO BE INSTALLED AT A LATER DATE.
- D. HANDRAILS - HOLLOW METAL, GRIND ALL WELDS SMOOTH, PAINT, MOUNT TO WALL WITH WALL BRACKETS, PROVIDE BLOCKING FOR ATTACHMENT.
- E. ROOF DRAIN - SEE ROOFING PLAN & EXTERIOR ELEVATIONS
- F. FIRE EXTINGUISHER CABINET - AS SHOWN, OWNER WILL PROVIDE EXTINGUISHER
- G. WALL FURRING - PROVIDE AT EXISTING PLUMBING VENT.
- H. 4/A8.0 REMOVABLE INFILL WALLS - TO BE REMOVED WHEN WALK IN COOLERS ARE INSTALLED
- J. NEW POWER PANEL - SEE ELECTRICAL DRAWINGS
- K. METAL CORNER GUARDS - 2" LEGS, 4' HIGH, SEE PROJECT MANUAL

# Wall & Ceiling Types

6 — A/A8.0 — INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE' X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X — B/A8.0 — EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 ½" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 — C/A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 — D/A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF ⅝" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 ½" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 ½" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX — E/A8.0 — **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT — F/A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF ⅝" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER ⅝" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF — G/A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.

REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
STATE OF OREGON

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
Suite 102 - Boise, Idaho 83709
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W: www.StraightlineArchitects.com

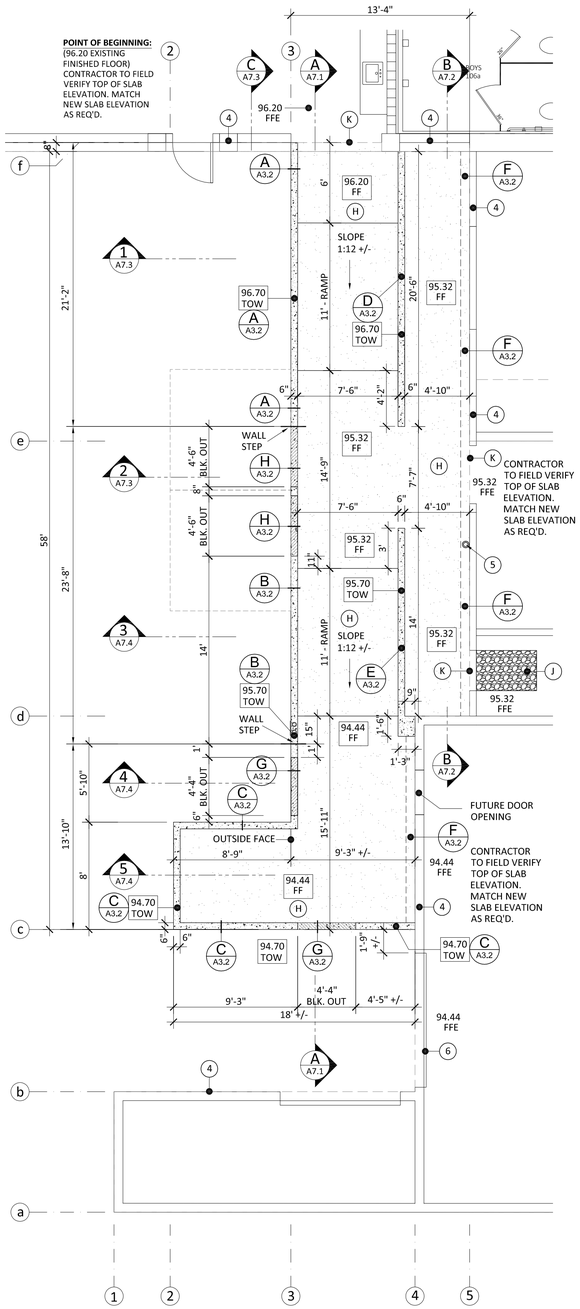
Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

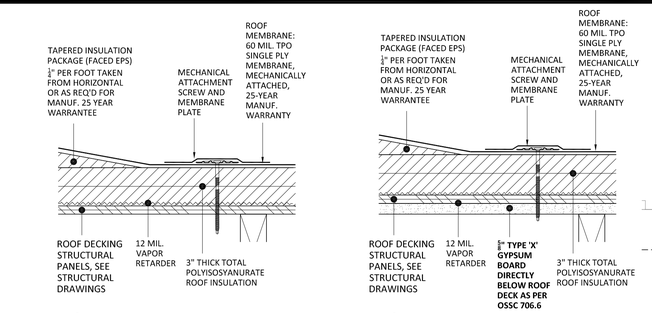
AGENCY & BID ISSUE

DRAWING NO.
A3.1
FLOOR PLANS



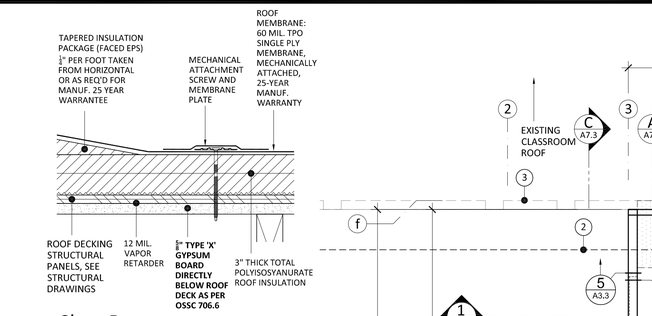

## Slab Plan

1 / A3.2 — SCALE: 3/16" = 1'-0"

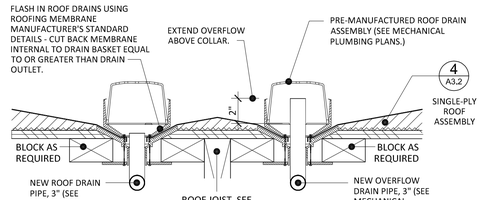

## Class B Roof Assembly (Typical)

4 / A3.2 — NOT TO SCALE



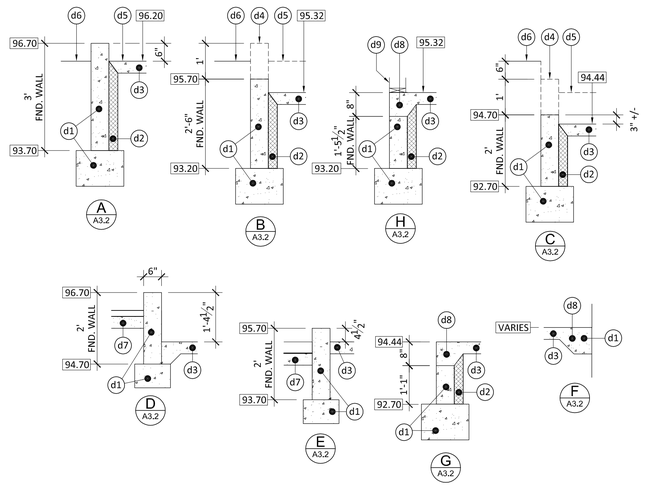

## Class B Roof Assembly (Firewall)

5 / A3.2 — NOT TO SCALE




## Roof Drain Detail

3 / A3.2 — NOT TO SCALE

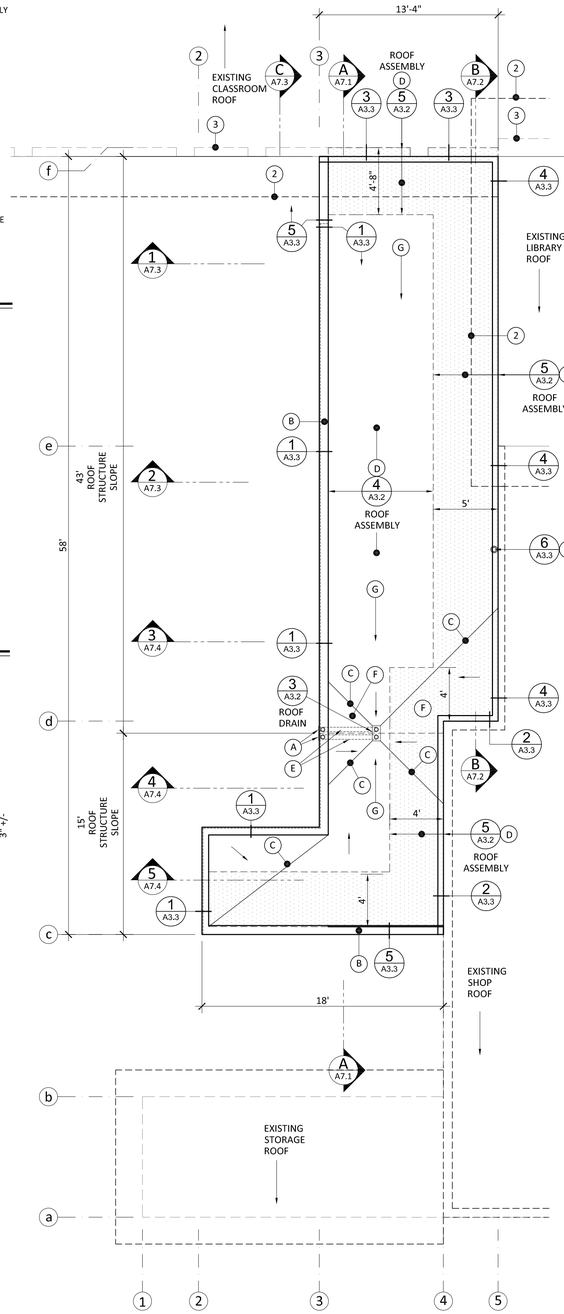



## Foundation Detail Keyed Notes

- d1 FOOTING & STEM (FOUNDATION) WALL - SEE STRUCTURAL DRAWINGS FOR WALL THICKNESS & FOOTING SIZE IF NOT INDICATED IN THIS DETAIL.
- d2 FOUNDATION INSULATION - SEE ARCHITECTURAL WALL SECTIONS
- d3 FLOOR SLAB - SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS
- d4 LINE OF STEM (FOUNDATION) WALL BEYOND
- d5 LINE OF FINISHED FLOOR BEYOND
- d6 LINE OF EXISTING FINISHED FLOOR BEYOND - AT EXISTING SCHOOL (POINT OF BEGINNING)
- d7 RAMP SLAB - ELEVATION VARIES
- d8 TOE DOWN - FLOOR SLAB AS SHOWN
- d9 LINE OF REMOVABLE WALL - FLOOR SLAB AS SHOWN

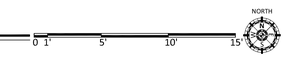
## Foundation Details

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




## Roof Plan

2 / A3.1 — SCALE: 3/16" = 1'-0"




## General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

## Reference Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

**GENERAL ROOF PLAN NOTES:**
1 - ROOFING AND SIDING PROFILES NOT DIMENSIONED ARE NOT TO SCALE - SEE PROJECT MANUAL AND EXTERIOR FINISH SCHEDULE FOR SPECIFIED PROFILES.

2 - SEE MECHANICAL SHEETS FOR ROOF PENETRATION LOCATIONS AND DETAILS, IF NO PENETRATION DETAIL IS SHOWN, PENETRATIONS SHALL BE FLASHED AS PER RESPECTIVE MANUFACTURERS TYPICAL DETAILS.

### EXISTNG & DEMOLITION

1. (E) ROOF PENETRATION - SEE TYPICAL PIPE PENETRATION DETAILS.
2. (E) ROOF EDGE ABOVE -DO NOT DISTURB.
3. LINE OF EXISTING WALL BELOW
4. (E) BUILDING WALL
5. (E) PIPE VENT - DO NOT DISTURB, PROVIDE CONCRETE JOINT AROUND PIPE PERIMETER & SLAB INTERFACE.
6. (E) OVERHEAD GARAGE DOOR - DO NOT DISTURB

### NEW & RENNOVATED

- A ROOF DRAIN OUTLETS - WITH OVERFLOW LABEL. SEE MECHANICAL PLUMBING PLANS
- B PARAPET WALL - AS PER DETAIL
- C VALLEY - SINGLE-PLY LINE OF VALLEY.
- D SINGLE PLY ROOF - SINGLE PLY ROOF WITH BUILT-UP INSULATION, SLOPE AS NOTED PER PLANS, SEE ROOF ASSEMBLY DETAIL.
- E DRAIN PIPING - ROUTE ROOF DRAIN PIPING AS GRAPHICALLY SHOWN, ROUTE HORIZONTALLY IN CEILING SPACE AND VERTICALLY INSIDE OF WALL, SEE MECHANICAL SHEETS FOR SIZE AND OTHER REQUIREMENTS.
- F CRICKETS - SINGLE PLY ROOF CRICKETS SHALL SLOPE 1/4":12". (1/2":12") FROM HORIZONTAL PLAIN, TYPICAL ALL CRICKETS.
- G STRUCTURE ROOF SLOPE
- H CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.
- J GRAVEL INFILL - SEE FLOOR PLANS
- K FLUSH - NEW AND EXISTING CONCRETE FLOOR SLAB SURFACES SHALL MATCH FLUSH


REGISTERED ARCHITECT
SCOTT A. MARSHALL
STATE OF OREGON
BOISE, IDAHO 5794


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
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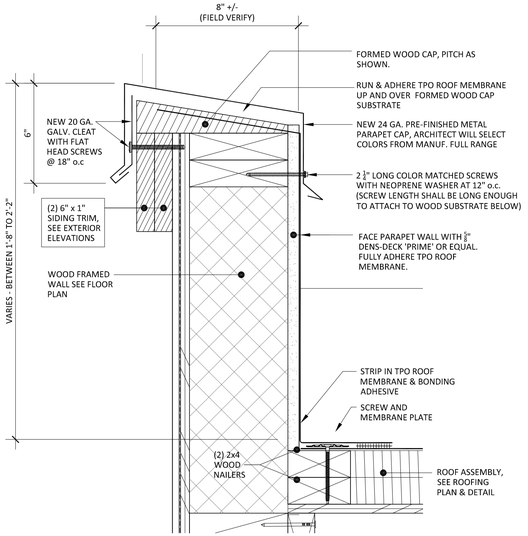
Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

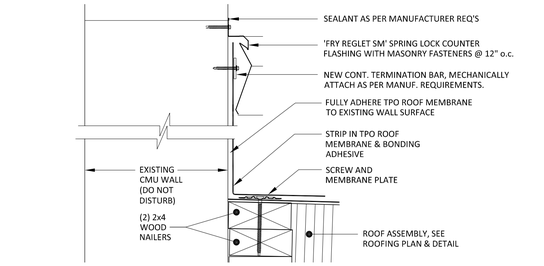
AGENCY & BID ISSUE

DRAWING NO.
# A3.2
CONCRETE SLAB PLAN & ROOF PLAN



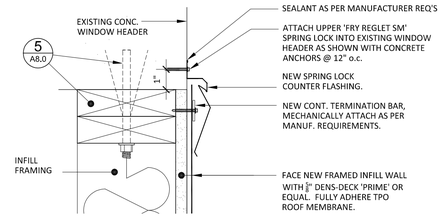

1 A3.3 **Parapet Cap Detail (TYPICAL)**

SCALE: 3" = 1'-0"



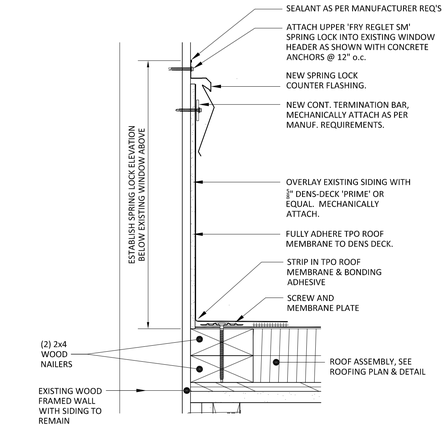

2 A3.3 **Existing Wall & Spring Lock Flashing at CMU**

SCALE: 3" = 1'-0"



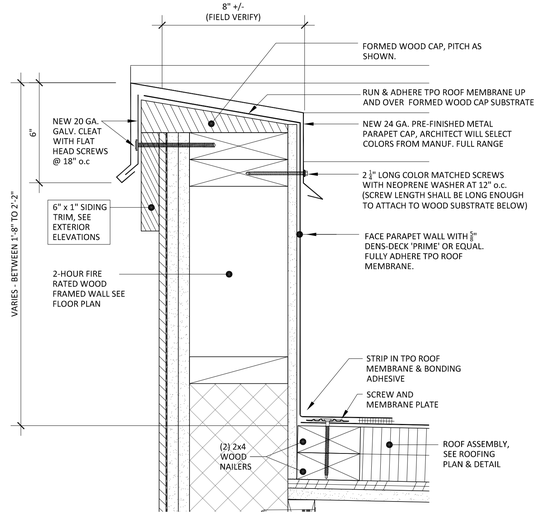

3 A3.3 **Fire Wall Infill & Existing Wall Spring Lock Flashing Interface**

SCALE: 3" = 1'-0"



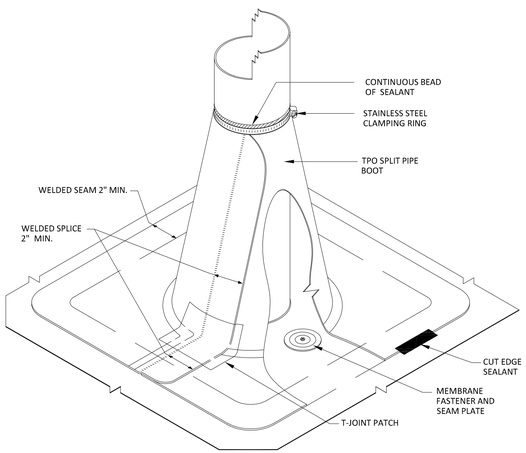

4 A3.3 **Existing Wall & Spring Lock Flashing at Siding**

SCALE: 3" = 1'-0"



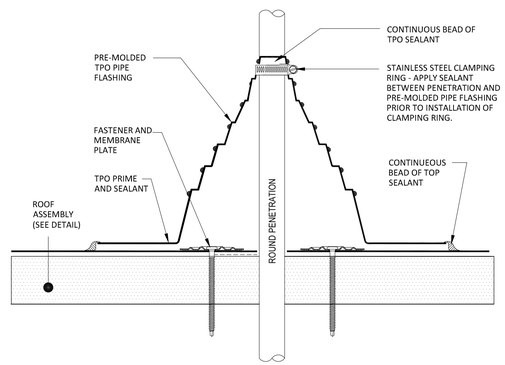

5 A3.3 **Parapet Cap Detail (2-HOUR FIRE WALL)**

SCALE: 3" = 1'-0"




6 A3.3 **Large Split Pipe Boot**

SCALE: NTS




TYP A3.3 **Plumbing Vent / Gas / Conduit Pipe Boot**

SCALE: NTS

## General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

## Reference Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

**GENERAL ROOF PLAN NOTES:**

1 - ROOFING AND SIDING PROFILES NOT DIMENSIONED ARE NOT TO SCALE - SEE PROJECT MANUAL AND EXTERIOR FINISH SCHEDULE FOR SPECIFIED PROFILES.

2 - SEE MECHANICAL SHEETS FOR ROOF PENETRATION LOCATIONS AND DETAILS, IF NO PENETRATION DETAIL IS SHOWN, PENETRATIONS SHALL BE FLASHED AS PER RESPECTIVE MANUFACTURERS TYPICAL DETAILS.

### EXISTNG & DEMOLITION

1. (E) ROOF PENETRATION - SEE TYPICAL PIPE PENETRATION DETAILS.
2. (E) ROOF EDGE ABOVE -DO NOT DISTURB.
3. LINE OF EXISTING WALL BELOW
4. (E) BUILDING WALL
5. (E) PIPE VENT - DO NOT DISTURB, PROVIDE CONCRETE JOINT AROUND PIPE PERIMETER & SLAB INTERFACE.
6. (E) OVERHEAD GARAGE DOOR - DO NOT DISTURB

### NEW & RENNOVATED

A. ROOF DRAIN OUTLETS - WITH OVERFLOW LABEL, SEE MECHANICAL PLUMBING PLANS

B. PARAPET WALL - AS PER DETAIL

C. VALLEY - SINGLE-PLY LINE OF VALLEY.

D. SINGLE PLY ROOF - SINGLE PLY ROOF WITH BUILT-UP INSULATION, SLOPE AS NOTED PER PLANS, SEE ROOF ASSEMBLY DETAIL.

E. DRAIN PIPING - ROUTE ROOF DRAIN PIPING AS GRAPHICALLY SHOWN, ROUTE HORIZONTALLY IN CEILING SPACE AND VERTICALLY INSIDE OF WALL, SEE MECHANICAL SHEETS FOR SIZE AND OTHER REQUIREMENTS.

F. CRICKETS - SINGLE PLY ROOF CRICKETS SHALL SLOPE 1/4":12". (1/2":12") FROM HORIZONTAL PLAIN, TYPICAL ALL CRICKETS.

G. STRUCTURE ROOF SLOPE

H. CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.

J. GRAVEL INFILL - SEE FLOOR PLANS

K. FLUSH - NEW AND EXISTING CONCRETE FLOOR SLAB SURFACES SHALL MATCH FLUSH


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
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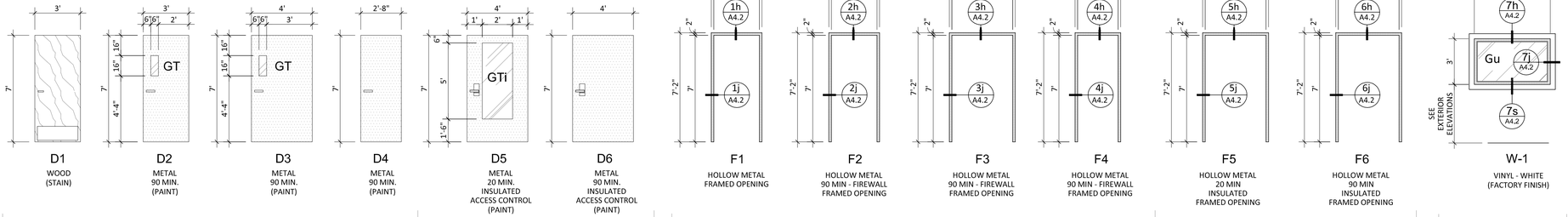
A3.3

ROOF DETAILS




ISSUE 2-1-2022

## ROOM FINISH SCHEDULE

**PHASE 1b.7**

| ROOM NUMBER | ROOM NAME | FLOOR (see Flooring Plan if Applicable) | | | CEILING (See RCP if Applicable) | | | NORTH WALL | | | EAST WALL | | | SOUTH WALL | | | WEST WALL | | | REMARKS & COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INSTRUCTION | MATERIAL | BASE | INSTRUCTION | MATERIAL | FINISH | INSTRUCTION | MATERIAL | FINISH | INSTRUCTION | MATERIAL | FINISH | INSTRUCTION | MATERIAL | FINISH | INSTRUCTION | MATERIAL | FINISH | |
| **NEW CONSTRUCTION** | | | | | | | | | | | | | | | | | | | | |
| 108a | HALL | F1 | SV-1 | RB-1 | C1 | GB | Pi-1 | W1 / W2 | GB / CONC | Pi-1, FS1 | W1 | GB / CONC | Pi-1, FS2 | W1 | GB | Pi-1 | W1 | GB / CONC | Pi-1 / FS2 | FS1, FS2 |
| 108b | LANDING | F1 | SV-1 | RB-1 | C1 | GB | Pi-1 | N/A | N/A | N/A | W2 | CMU | Pi-1, FS3 | W1 | GB | Pi-1 | W1 | GB / CONC | Pi-1 / FS2 | FS2, FS3 |
| 109 | CUL. CLASS STORAGE | F1 | SV-1 | RB-1 | C1 | GB | Pi-1 | W1 / W2 | GB / CONC | Pi-1, FS3 | W1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 | GB / CONC | Pi-1 / FS2 | FS3 |
| 110b | DRY STORAGE | F1 | SV-1 | RB-1 | C1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 / W2 | GB / CONC | Pi-1, FS3 | W1 | GB / CONC | Pi-1 / FS2 | FS3 |
| 116 | ELECTRICAL PANEL ROOM | F1 | CONC | RB-2 | C1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 | GB | Pi-1 | W1 | GB | Pi-1 | . |

**REMODELED CONSTRUCTION: NONE**

**ROOM FINISH NOTES:**

**GENERAL** AT ALL REMODELED WALLS & CEILINGS PRIOR TO RE-FINISHING / TEXTURING & PAINTING, REMOVE NAILS ALL NAILS, TACKS, TAPE, ETC. FROM THE EXISTING SURFACE

**FLOORING**

**F1** NEW CONSTRUCTION & NEW FLOORING AS SCHEDULED

**CEILING**

**C1** NEW CONSTRUCTION & NEW CEILING AS SCHEDULED
**C2** EXISTING GYPSUM BOARD HARD LID CEILING, DO NOT DISTURB

**WALLS**

**W1** NEW CONSTRUCTION & NEW WALLS AS SCHEDULED
**W2** EXISTING WALL, FINISH AS SCHEDULED

**NOTES**

**FS1** PAINT AND TEXTURE GYPSUM BOARD WALL, CLEAN & PAINT EXISTING CONCRETE COLUMN. PROTECT COLUMN TO PREVENT TEXTURE OVERSPRAY.
**FS2** PAINT AND TEXTURE GYPSUM BOARD WALL, PROTECT NEW INTERIOR CONCRETE RAMP WALL TO PREVENT PAINT & TEXTURE OVERSPRAY.
**FS3** REMOVE LOOSE PAINT FROM EXISTING CMU / CONCRETE WALL AS REQUIRED. PRIME AND PAINT AS SCHEDULED.

*VER. 2-1-2022*

## DOOR SCHEDULE

**PHASE 1b.7**

| MARK # | G | INSTRUCTION | LOCATION | DOOR (SEE A4.1) SIZE | TYPE | MATERIAL | FINISH | FRAME (SEE A4.1) TYPE | MATERIAL | FINISH | DOOR & FRAME LABEL | ACCESS CONTROL | REMARKS & COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| d108a | 1 | NDO | INTERIOR | 3'x7' | D2 | METAL | Pi-2 | F2 | METAL | Pi-2 | 90 MIN | NO | DS1 |
| d108b | 2 | NDO | EXTERIOR | 4'x7' | D5 | METAL | Pi-2 | F5 | METAL | Pi-2 | 20 MIN | YES | DS1, DS2, DS4 |
| d108c | 3 | NDO | INTERIOR | 4'x7' | D3 | METAL | Pi-2 | D3 | METAL | Pi-2 | 90 MIN | NO | . |
| d109 | 4 | NDO | INTERIOR | 3'x7' | D1 | WOOD | FF | D1 | METAL | Pi-2 | N/A | NO | DS3 |
| d110b | 5 | NDO | INTERIOR | 2'-8"x7' | D4 | METAL | Pi-2 | D4 | METAL | Pi-2 | 90 MIN | NO | . |
| d116 | 6 | NDO | EXTERIOR | 4'x7' | D6 | METAL | Pi-2 | F6 | METAL | Pi-2 | 90 MIN | YES | DS1, DS2, DS4 |

DOOR SCHEDULE REMARKS & COMMENTS:

DS1 NEW DOOR HAS A PANIC DEVICE, SEE HARDWARE SCHEDULE
DS2 ACCESS CONTROL, KEYPAD & KEYCARD. HANDLE MOUNTED, SEE PROJECT MANUAL
DS3 METAL KICK PLATES, BOTH SIDES
DS4 DOOR SHALL BE INSULATED

DOOR SCHEDULE INSTRUCTION NOTES:

NDO NEW DOOR OPENING: NEW DOOR, FRAME, & HARDWARE

*ISSUE 2-1-2022*

## DOOR HARDWARE SCHEDULE

**PHASE 1b.7**

| G | FUNCTION | DOORS | HINGES | EXIT DEVICE | CLOSER | KICKPLATE | DOOR GASKETS | THRESHOLD | SWEEP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXTERIOR | d108a | 1 1/2 PAIR | 1 DEVICE | 1 CLOSER | NONE | 1 SET | NO | NO | H1, H3, H4, H6 |
| | PANIC | | | | | | | | | |
| 2 | EXTERIOR | d108b | 1 1/2 PAIR | 1 DEVICE | 1 CLOSER | NONE | 1 SET | YES | YES | H1, H3, H4, H5, H6, H7 |
| | PANIC | | | | | | | | | |
| 3 | ANSI F84 | d108c | 1 1/2 PAIR | NONE | 1 CLOSER | NONE | 1 SET | NO | NO | H1, H3, H4 |
| | CLASSROOM | | | | | | | | | |
| 4 | ANSI F86 | d109 | 1 1/2 PAIR | NONE | NONE | 1 SET | 1 SET | NO | NO | H1, H2 |
| | STOREROOM | | | | | | | | | |
| 5 | ANSI F75 | d110b | 1 1/2 PAIR | NONE | 1 CLOSER | NONE | 1 SET | NO | NO | H1, H3, H4 |
| | PASSAGE | | | | | | | | | |
| 6 | ANSI F86 | d116 | 1 1/2 PAIR | 1 DEVICE | 1 CLOSER | NONE | 1 SET | YES | YES | H1, H3, H4, H5, H6, H7 |
| | STOREROOM | | | | | | | | | |

**REMARKS**

**H1** DOOR STOPS - Provide and Install one door stop for each leaf of swinging door. Door stops shall be a wall stop. For locations where wall mounted stops are not appropriate, provide a floor stop. Install all wall mounted doorstops centered on lockset cylinder.

**H2** KICKPLATES - kickplates shall be 2" less than width of door

**H3** CLOSER ATTACHMENT - All closers at all wood doors shall be installed through bolted with sex bolts. All closers at metal doors shall be installed with machine bolts into holes drilled and tapped in 3/16" minimum reinforcing plates.

**H4** CLOSER OPTIONS - All closers shall have the following options: Delayed action valve, heavy duty parallel arms, sex nuts & bolts, corrosion protection at exterior locations, and extream temprature fluid at exterior locations.

**H5** THRESHOLD - Threshold shall be ADA compliant and shall extend full depth of door frame

**H6** PANIC EXIT DEVICE - Provide panic exit device on interior side, provide exterior lock fuctionality with dogable lock, provide exterior lock and handle.

**H7** ACCESS CONTROL - Provide handle mounted Access Control with Keypad & Intergrated Proximity Card Reader

## General Notes

*Applicable to this sheet only*

1. EXISTING BUILDING ELEMENTS NOT NOTED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION TRADES PERMITS. THIS (EXCLUDES THE STRUCTURAL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER)

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS (TO BE PATCHED) WITH FINISHED GYPSUM BOARD SURFACES, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, SEE FINISH SCHEDULE AND WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL (IF APPLICABLE) OR PLANS FOR COLORS, PATTERNS, AND PAINT TYPES.

## Room & Door Finish Material Notes

*Applicable to this sheet only*

| | |
|---|---|
| FF | FACTORY FINISH. |
| CONC | CONCRETE - APPLY SEALANT, NATURAL GRAY COLOR |
| (E) CONC | CONCRETE, EXISTING - CLEAN AND/OR READY FOR NEW FLOORING, SEE ROOM FINISH SCHEDULE |
| GB | GYPSUM BOARD - 5/8" TYPE 'X', LIGHT ORANGE PEEL SURFACE, PAINT AS NOTED, SEE ROOM FINISH SCHEDULE & SECTIONS FOR LAYERS. |
| (E)CMU | EXISTING CMU (MASONRY BLOCK) - PREVIOUSLY PAINTED, APPLY NEW PAINT AS PER ROOM FINISH SCHEDULE |
| HL | HARD LID CEILING - AT CEILING JOISTS, 5/8" TYPE 'X', LIGHT ORANGE PEEL SURFACE, PAINT AS NOTED, SEE ROOM FINISH SCHEDULE. |
| Pi-x | INTERIOR PAINT (x) = COLOR / TYPE / MANUF. |
| SV-x | SHEET VINYL (x) = COLOR / PATTERN / MANUF. |
| RB-x | RUBBER BASE (x) = COLOR / SIZE / MANUF. |
| METAL | METAL DOORS / FRAMES |
| PNT | PAINT DOORS / FRAMES |
| FF | FACTORY FINISH PRE STAIN / FINISH |
| WOOD | WOOD DOORS |

*NOTE: Paint hollow metal doors & frames as Scheduled - Pre-Finished Components, ie. aluminum, Vinyl, Anodized, etc. shall be factory finish, UNO.*

## Glass Types

*Applicable to this sheet only*

| | |
|---|---|
| GT | 1/4" TEMPERED FLOAT GLASS |
| GTi | 1" TEMPERED & INSULATED GLASS |
| GU | WINDOW UNIT AS PER EXTERIOR ELEVATIONS / PROJECT MANUAL |

## Interior Color & Material Schedule

*See Project Manual for Material & Finish Requirements & Specifications, if applicable.*

FLOORING & BASE

- SV-1 SHEET VINYL COLOR / MANF. , 'SV'
- CONC CONCRETE, NATURAL GRAY 'CONC'
- RB-1 RUBBER BASE, 4" COLOR 'RB1' at 'SV'
- RB-2 RUBBER BASE, 4" COLOR, 'RB2' at 'CONC'

INTERIOR WALLS & CEILING

- Pi-1 'WHITE' PAINT, INTERIOR, SEMI-GLOSS, COLOR 'P1' GYP. BD. TEXTURE: LIGHT ORANGE PEEL ,
- Pi-2 'INTERIOR METAL DOORS & FRAMES' PAINT, HIGH-GLOSS, COLOR 'P2'


REGISTERED ARCHITECT — SCOTT A. MARSHALL — BOISE, IDAHO 5794 — STATE OF OREGON

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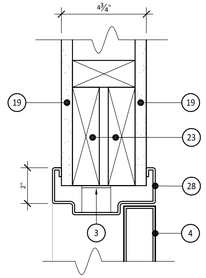
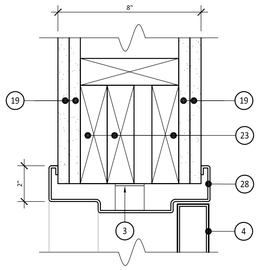
AGENCY & BID ISSUE

DRAWING NO.
A4.1
DOOR SCHEDULE & ELEVATIONS




1h A4.2 **Door Head Detail**
SCALE: 3" = 1'-0"




2h A4.2 **Door Head Detail**
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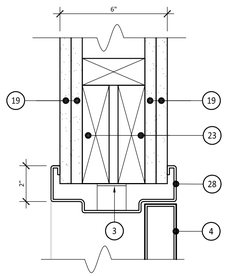


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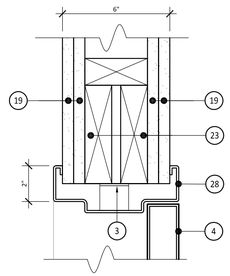


4h A4.2 **Door Head Detail**
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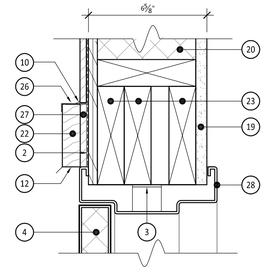


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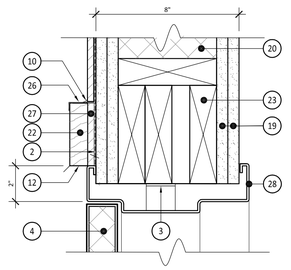


6h A4.2 **Door Head Detail**
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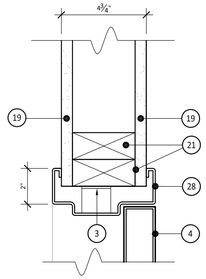


1j A4.2 **Door Jamb Detail**
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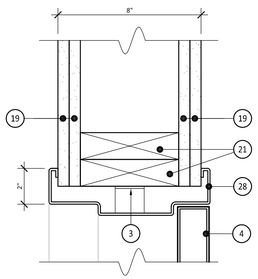


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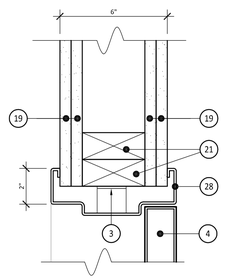


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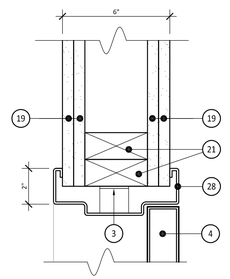
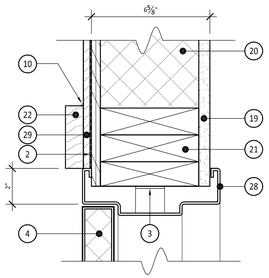
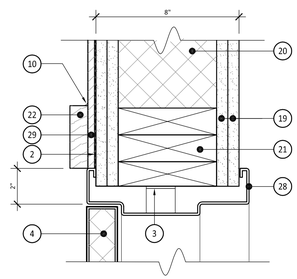


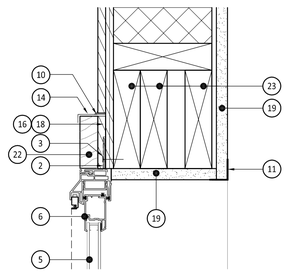

4j A4.2 **Door Jamb Detail**
SCALE: 3" = 1'-0"



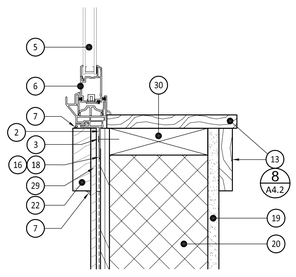

5j A4.2 **Door Jamb Detail**
SCALE: 3" = 1'-0"



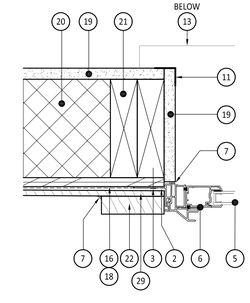

6j A4.2 **Door Jamb Detail**
SCALE: 3" = 1'-0"



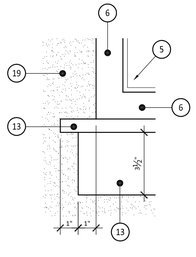

7h A4.2 **Window Head Detail**
SCALE: 3" = 1'-0"




7s A4.2 **Window Sill Detail**
SCALE: 3" = 1'-0"




7j A4.2 **Window Jamb Detail**
SCALE: 3" = 1'-0"




8 A4.2 **Interior Window Sill Elevation**
SCALE: 3" = 1'-0"

## Door & Window Keyed notes

THIS SHEET ONLY

1. EXTEND VAPOR RETARDER - (INTERIOR) TO WINDOW / DOOR FRAME
2. EXTEND INFILTRATION BARRIER - (EXTERIOR) TO WINDOW / DOOR FRAME
3. ANCHOR - AS RECOMMENDED BY WINDOW / DOOR MANUFACTURER FOR CONSTRUCTION TYPE SHOWN - DO NOT USE STAPLES
4. DOOR AS SCHEDULED - SEE DOOR SCHEDULE FOR TYPE AND REQUIRED FIRE RATING, IF APPLICABLE.
5. GLASS TYPE - SEE DOOR AND WINDOW ELEVATIONS FOR GLASS TYPE.
6. WINDOW, VINYL - SEE ENERGY COMPLIANCE, WINDOW ELEVATIONS & PROJECT MANUAL
7. LATEX JOINT SEALANT - SEE PROJECT MANUAL FOR SPECIFIC APPLICATION REQUIREMENTS
8. URETHANE JOINT SEALANT - (EXTERIOR CONCRETE / MASONRY) ONE PART - SEE PROJECT MANUAL FOR SPECIFIC APPLICATION REQUIREMETNS
9. SILICONE SEALANT - (INTERIOR WET AREAS) ONE PART - SEE PROJECT MANUAL FOR SPECIFIC APPLICATION REQUIREMENTS
10. ELASTOMERIC SEALANT - (METAL & GLASS), SEE PROJECT MANUAL
11. METAL CORNER BEAD - AT GYPSUM BOARD CORNER
12. METAL DRIP FLASHING - GALV. PAINT, 24. GA.
13. WINDOW SILL, INTERIOR - ¾" OAK TRIM WITH EASED EDGES - SAND AND FINISH TO MATCH EXISTING FINISHED INTERIOR WOODWORK.
14. WINDOW FLASHING - GALVANIZED, PAINT INSTALL AS PER MANUF. REQ'S.
15. EXPANDING FOAM - MINIMALLY EXPANDING POLYURETHANE FOAM OR CAULK AS PER WINDOW MANUFACTURERS INSTALLATION INSTRUCTIONS
16. INFILTRATION BARRIER (WINDOW) - INSTALL OVER WALL SHEATHING - TAPE ALL SEAMS WITH MANUF. SEAM TAPE - SEE PROJECT MANUAL
17. VAPOR RETARDER (WINDOW) - INSTALL ON WARM SIDE OF INSULATION - TAPE ALL SEAMS WITH MANF. SEAM TAPE - SEE PROJECT MANUAL.
18. WINDOW STRIP FLASHING - PROVIDE AND INSTALL WINDOW STRIP FLASHING AS PER MANUFACTURER'S RECOMMENDED INSTALLATION - CONTRACTOR SHALL SUBMIT FULL FLASHING MATERIAL AND PROCEDURES TO ARCHITECT PRIOR TO INSTALLATION.
19. GYPSUM BOARD - TYPE 'X' GYPSUM BOARD, LAYERS AS GRAPHICALLY SHOWN
20. INSULATION, WALL - SEE HORIZONTAL WALL TYPES FOR REQUIRED CAVITY INSULATION
21. KING & TRIMMER STUD - SEE FRAMING PLAN.
22. TRIM, EXTERIOR - SIDING TRIM, SEE EXTERIOR ELEVATIONS
23. HEADER - AT DOOR OR WINDOW, SEE FRAMING PLAN FOR SIZE
24. GLAZING STOP - AT HOLLOW METAL, PROVIDE SECURITY SCREWS.
25. SHIM - AS REQUIRED.
26. METAL TRIM FLASHING - GALV. PAINT, 24 GA.
27. SIDING & FLASHING AT EXTERIOR DOOR HEAD TRIM - SET SIDING STRIP BEHIND FINISH SIDING TRIM AT HEAD CONDITION, INSTALL TRIM FLASHING & DRIP FLASHING AS SHOWN.
28. HOLLOW METAL FRAME, DOOR & WINDOW - SAND, PRIME, PAINT. AS DIMENSIONED, SEE FRAME ELEVATIONS
29. EXTEND SIDING - BEHIND SIDING TRIM AS SHOWN.
30. SILL STUD - 2x AS REQUIRED

REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
STATE OF OREGON

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

CB Const, Inc
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1202 Adams Avenue
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ALSEA SCHOOL DISTRICT


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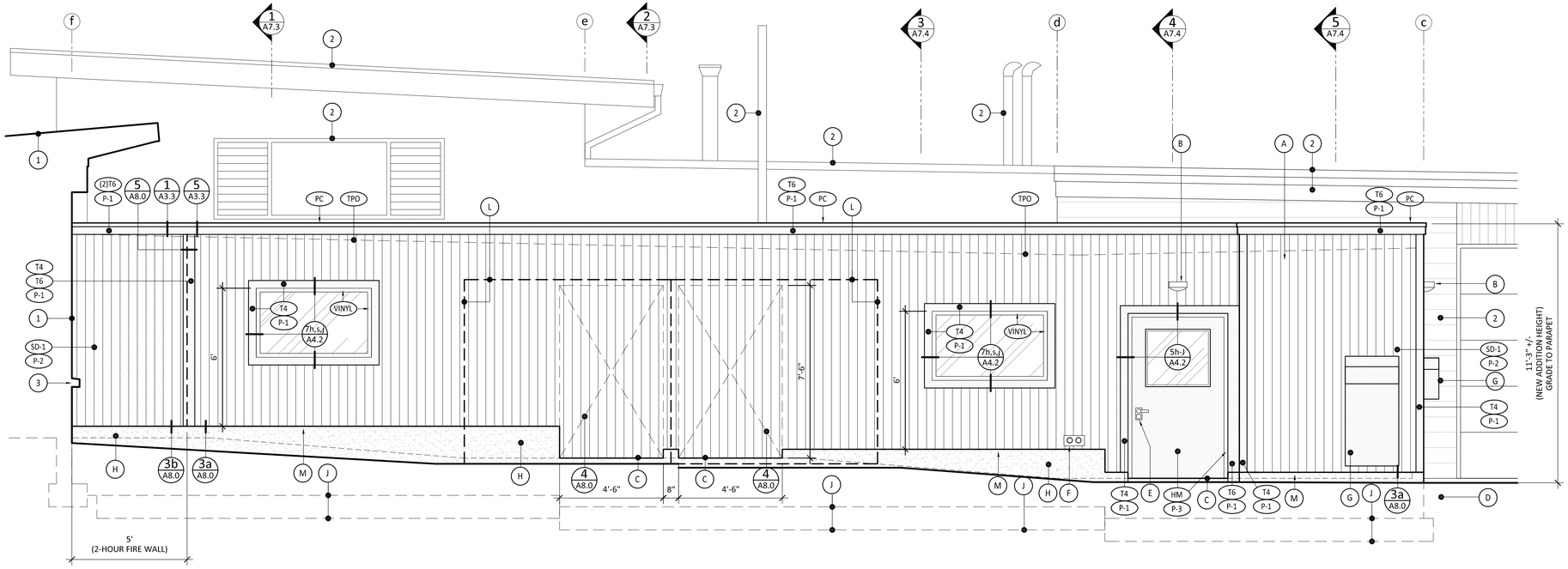
| | |
|---|---|
| Date: | 1-27-2022 |
| Project: | ALS-1821 |
| Version History: | V1.0 |
| PHASES (PH): | 1b.7 |
| ISSUE: | 2-1-22 |

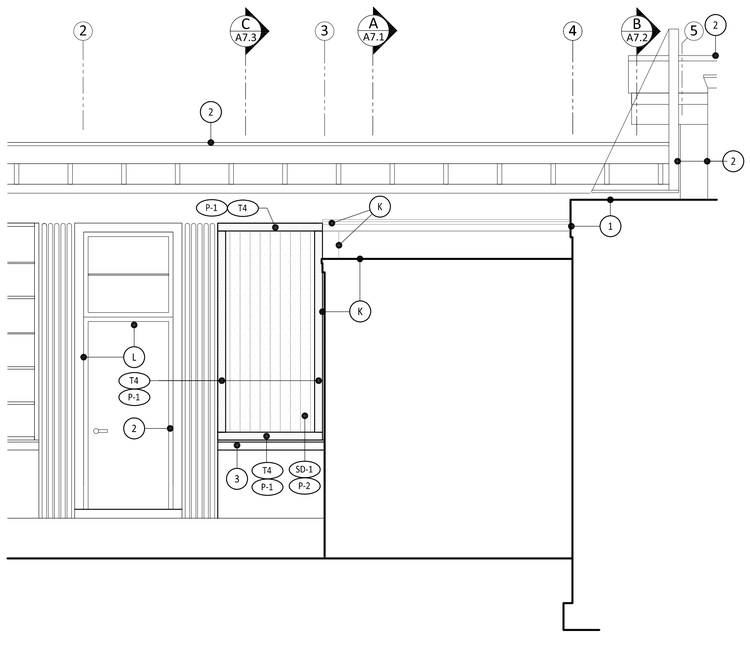
AGENCY & BID ISSUE

DRAWING NO.
A4.2
DOOR & WINDOW DETAILS



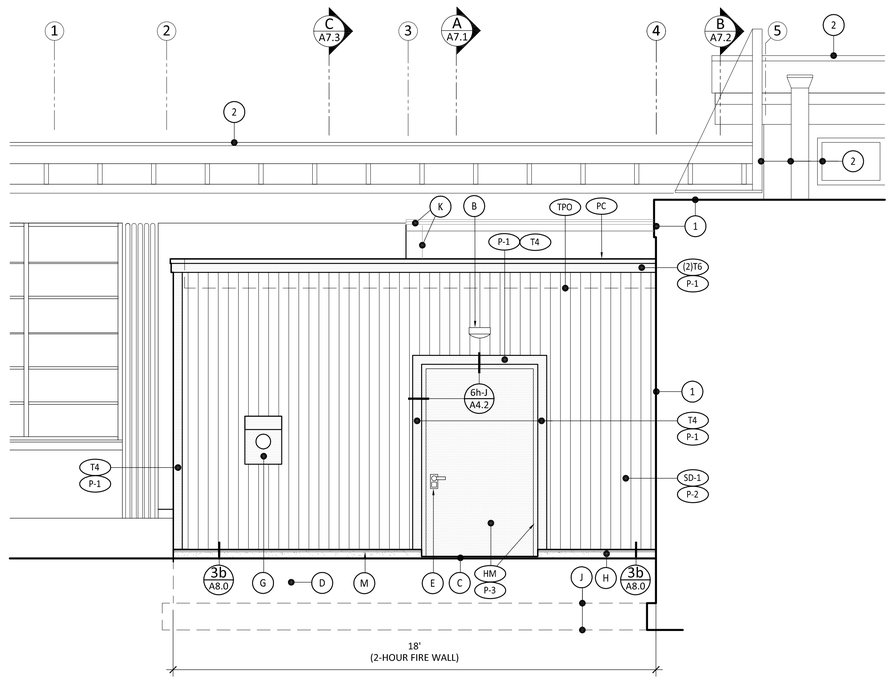

1 A5.1 Exterior Building Elevation - West

SCALE: 3/8" = 1'-0"




3 A5.1 Exterior Building Elevation - South (At Existing Building)

SCALE: 3/8" = 1'-0"




2 A5.1 Exterior Building Elevation - South

SCALE: 3/8" = 1'-0"

## General Notes

*Applicable to this Sheet only:*

1 - EXTERIOR LOUVERS - for mechanical louver size & location, see mechanical sheets / coordinate with mechanical design build contractor.

2 - EXTERIOR LIGHTING - Mount all exterior lights as Dimensioned.

DIMENSIONING:

VERTICAL JOINT DIMENSIONS / LOCATIONS - are measured from the center of the panel or joint to the outside face of the foundation below.

HORIZONTAL JOINT DIMENSIONS / LOCATIONS - are determined by adjacent building materials such as windows, doors, metal panels, etc. locate joints as detailed and graphically shown.

GENERAL ABBREVIATIONS:

| | |
|---|---|
| (N) | New |
| (D) | Demolish |
| (E) | Existing |
| (X") | Height Above Fin. Floor |
| (TYP) | Typical (x)=# |
| (NIC) | Not in Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |

SPECIFIC ABBREVIATIONS:

| | |
|---|---|
| BOT or B | BOTTOM |
| BLDG | BUILDING |
| CEIL | CEILING |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CMU | MASONRY |
| EA | EACH |
| EXT | EXTERIOR |
| FF | FINISH FLOOR |
| INT | INTERIOR |
| MTL | METAL |
| REF | REFERENCED |
| TOS | TOP OF SLAB |
| TP | TOP PLATE |
| TO or T | TOP OF |
| TOP | TOP OF PARAPET |
| T&B | TOP & BOTTOM |
| VERT (V) | VERTICAL |
| HORIZ (H) | HORIZONTAL |

X'-X" ELEVATION - RELATIVE DISTANCE STATED, REFERENCE POINT NOTATED.

## Keyed Notes

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

EXISTNG & DEMOLITION

GENERAL NOTE: SEE WALL SECTION SHEETS FOR ADDITIONAL DEMOLITION SCOPE

1. LINE OF EXISTING WALL - AS SHOWN.
2. EXISTING BUILDING BEYOND - AS SHOWN.
3. EXISTING CONCRETE SILL - AS SHOWN.

NEW & RENNOVATED

- A. BUILDING LIGHTING, NEW - SEE ELECTRICAL DRAWINGS, LOCATE AS DIMENSIONED
- B. EMERGENCY LIGHTING - LOCATE AS SHOWN, CENTERED ABOVE EXIT DOORS, SEE ELECTRICAL DRAWINGS, RECESSED CAN AT OFFICE ENTRY
- C. DOOR BLOCK OUT - SEE SLAB PLAN
- D. CONCRETE PAVEMENT - SEE SITE PLAN / CIVIL SHEETS
- E. ACCESS CONTROL - SEE ELECTRICAL DRAWINGS AND PROJECT SPECIFICATIONS
- F. ROOF DRAINS - SEE MECHANICAL PLANS
- G. POWER METER & SERVICE ENTRANCE - SEE ELECTRICAL PLANS
- H. CONCRETE FOUNDATION WALL - SEE FOUNDATION PLAN & SLAB PLAN
- J. LINE OF FOUNDATION - SEE FOUNDATION PLAN & SLAB PLAN
- K. BEYOND - NEW CONSTRUCTION BEYOND
- L. LINE OF FUTURE WALK IN COOLERS - TO BE INSTALLED IN FUTURE PHASE
- M. DRIP FLASHING - SEE DETAILS

## Exterior Finish Materials & Schedule

*See Project Manual for Material & Finish Requirements & Specifications*

GENERAL NOTES

1 - REFER TO EXTERIOR ELEVATIONS FOR JOINTS IN FINISH MATERIALS, ie. SIDING, METAL PANELS, MASONRY, ETC.

2 - ALIGN MATERIALS, SIDING, TRIM, ETC. AS GRAPHICALLY SHOWN & DIMENSIONED

SIDING & TRIM

- SD-1 SIDING - 'LP SMARTSIDE' CEDAR TEXTURE, ENGINEERED TREATED WOOD SIDING, 4'X8' SHEETS WITH 8" O.C. VERTICAL LINES.
- T4 TRIM - 3.5" X .75" 'TRUWOOD' OR EQUAL.
- T6 TRIM - 5.5" X .75" 'TRUWOOD' OR EQUAL

EXTERIOR PAINT

- P-1 PAINT - 'TRIM' EXTERIOR, COLOR 'P1'
- P-2 PAINT - 'SIDING' EXTERIOR, COLOR 'P2'
- P-3 PAINT - 'METAL DOORS & FRAMES', EXTERIOR, COLOR 'P3'

WINDOWS & DOORS

- HM DOOR & FRAME - HOLLOW METAL, PAINT AS SCHEDULED
- VNYL VINYL WINDOW - WHITE, FACTORY FINISH, SEE PROJECT MANUAL

ROOFING

- TPO TPO ROOFING - WHITE, SEE ROOF PLAN
- PC PARAPET CAP - PRE-FINISHED METAL, STANDARD COLOR PALLET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# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

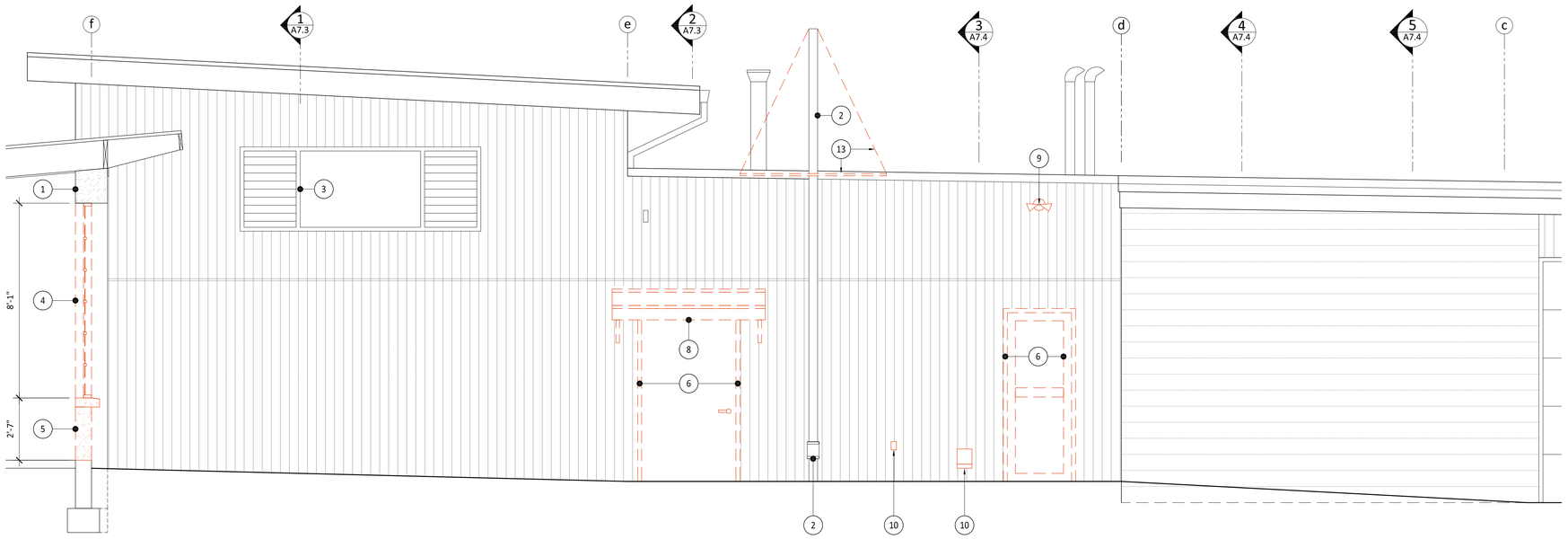
ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.

A5.1

EXTERIOR ELEVATIONS




A A7.1 Demolition Building Section 'A'

SCALE: 3/8" = 1'-0"

A A7.1 New Building Section 'A'

SCALE: 3/8" = 1'-0"

## General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

## Reference Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

### EXISTNG & DEMOLITION

1. (E) BUILDING WALL / FNDATION / SLAB - ROOF - DO NOT DISTURB
2. (E) VENT PIPE - DO NOT DISTURB, REMOVE IN ANOTHER PHASE
3. (E) WINDOW - DO NOT DISTURB
4. (D) EXISTING METAL SASH WINDOW - READY FOR NEW CONSTRUCTION
5. (D) CONCRETE WALL - SAWCUT 8" THICK CONCRETE WALL (BELOW WINDOW) TO EXISTING FLOOR SLAB, DO NOT OVERCUT CORNERS. SEE SECTIONS & EXTERIOR ELEVATIONS
6. (D) DOOR & FRAME - READY OPENING FOR NEW OPENING OR DOOR AND FRAME, SEE NEW FLOOR PLAN
7. (D) FLOOR SLAB - SELECTIVELY SAW CUT & DEMOLISH EXISTING FLOOR SLAB AS SHOWN FOR NEW SEWER LINE ROUTING TO FUTURE KITCHEN.
8. (D) DOOR COVER - ALL PARTS
9. (D) LIGHT - COVER WITH BLANK PLATE
10. (D) WALL MOUNTED DEVICE
11. (D) SIDING - SELECTIVELY DEMOLISH EXISTING SIDING
12. LINE OF WALL / FOUNDATION BEYOND - AS GRAPHICALLY SHOWN
13. (D) METAL GRATE & CABLES - REMOVE AND DISCARD.

### NEW & RENNOVATED

- A. GRAVEL INFILL - FILL NEW CAPPED FUTURE KITCHEN SEWER LINE HOLE WITH GRAVEL FLUSH TO FACE OF ADJACENT CONCRETE SLAB.
- B. FUTURE WALK IN COOLERS - LINE OF FUTURE WALK IN COOLERS TO BE INSTALLED AT A LATER DATE.
- C. HANDRAILS - HOLLOW METAL, GRIND ALL WELDS SMOOTH, PAINT, MOUNT TO WALL WITH WALL BRACKETS, PROVIDE BLOCKING FOR ATTACHMENT.
- D. ROOF DRAIN - SEE ROOFING PLAN & EXTERIOR ELEVATIONS
- E. 4 / A8.0 REMOVABLE INFILL WALLS - TO BE REMOVED IN THE FUTURE
- F. CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.
- G. GYPSUM BOARD - (2) LAYERS OF $\frac{5}{8}$" TYPE 'X'.
- H. NEW DOOR OPENING - HOLLOW MTL. DOOR & FRAME
- J. NEW CONC. WALL BEYOND - RAMP WALL BEYOND
- K. NEW FOUNDATION WALL & FOOTING - AS PER STRUCTURAL
- L. FOUNDATION INSULATION - 3" THICK
- M. NEW EXTERIOR CONCRETE PAVING - SEE SITE PLAN
- N. NEW VINYL WINDOW - SEE WINDOW ELEVATIONS
- P. HEADER / BEAM / LEDGER - SEE STRUCTURAL DRAWINGS
- Q. ROOF JOISTS - 2x6's SEE STRUCTURAL DRAWINGS
- R. SISTERED ROOF JOISTS - 2x4's PLATED TO ROOF JOISTS. SEE DETAILS

## Wall & Ceiling Types

6 / A A8.0 — INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE' X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 — EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 $\frac{1}{2}$" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF $\frac{5}{8}$" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF $\frac{5}{8}$" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF $\frac{5}{8}$" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 $\frac{1}{2}$" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 $\frac{1}{4}$" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 — **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF $\frac{5}{8}$" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 $\frac{1}{2}$" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER $\frac{5}{8}$" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 $\frac{1}{2}$" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF $\frac{5}{8}$" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.

REGISTERED ARCHITECT — SCOTT A. MARSHALL — BOISE, IDAHO 5794 — STATE OF OREGON

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
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Date: 1-27-2022
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Version History: V1.0

PHASES (PH): 1b.7

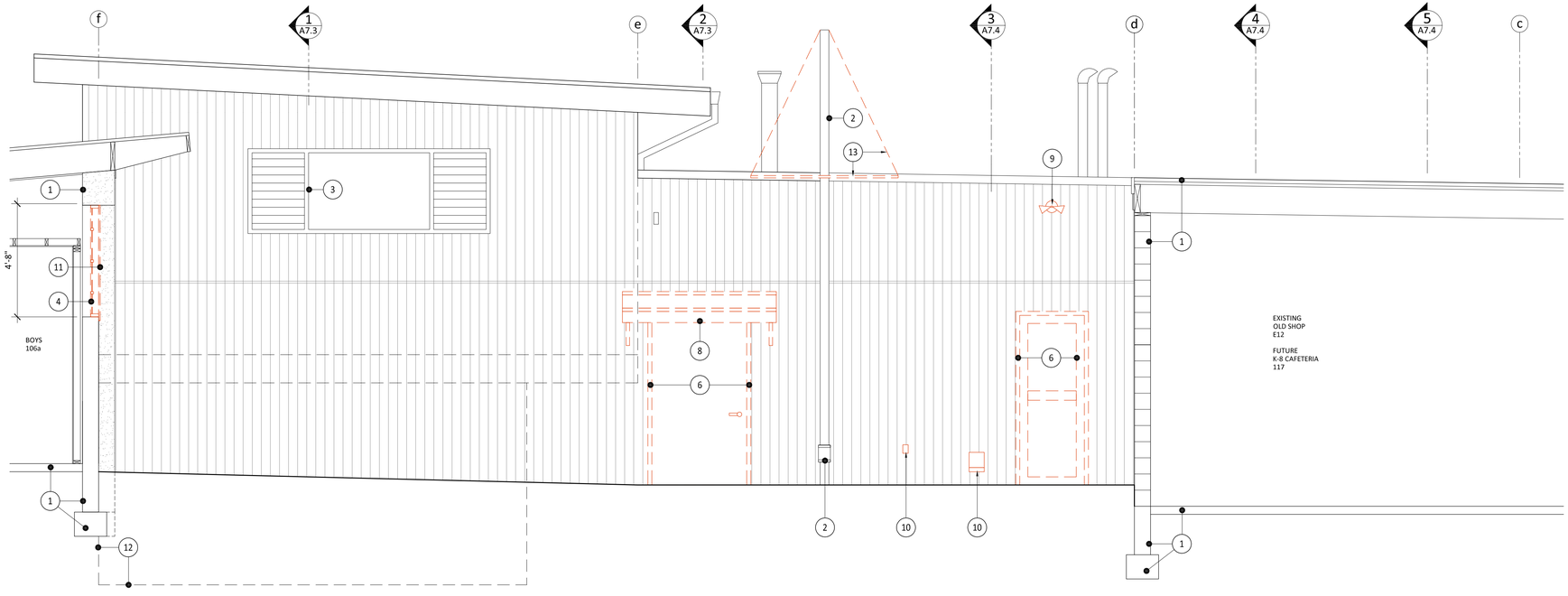
ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.

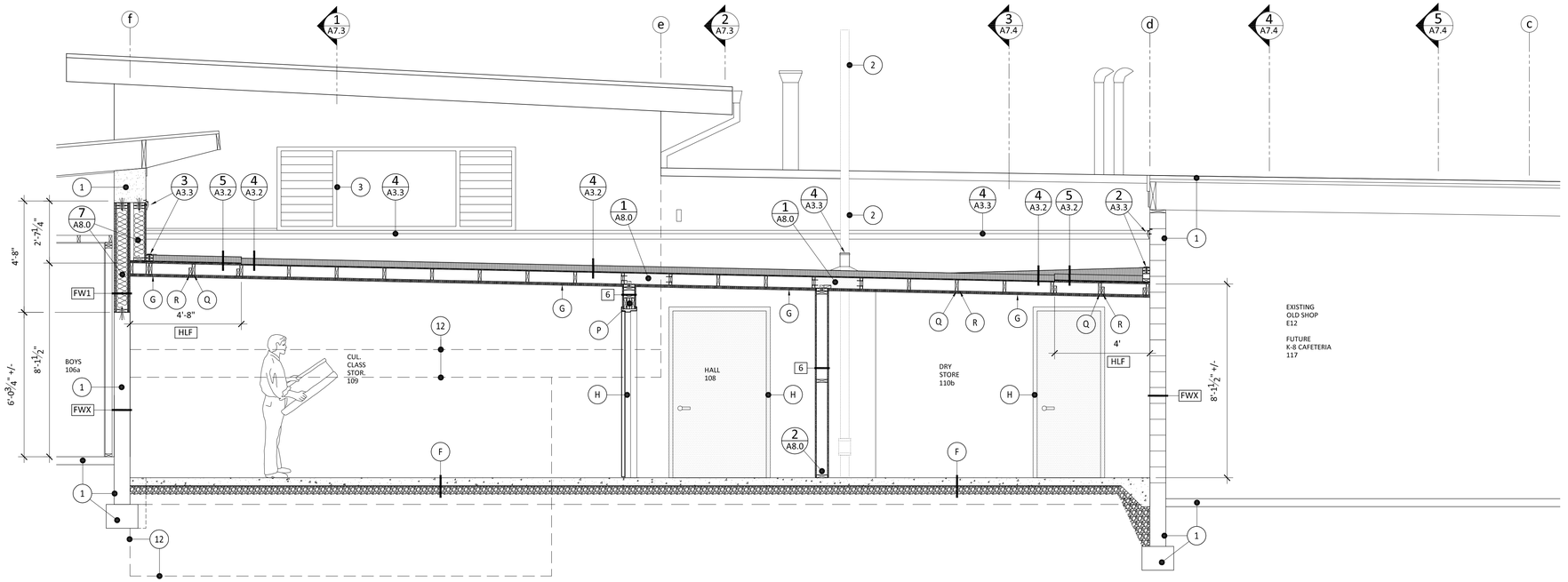
A7.1

BUILDING SECTIONS 'A'




## B A7.2 Demolition Building Section 'B'

SCALE: 3/8" = 1'-0"




## B A7.2 New Building Section 'B'

SCALE: 3/8" = 1'-0"

# General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

# Reference Notes

*Applicable to this Sheet Only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

## EXISTNG & DEMOLITION

1. (E) BUILDING WALL / FNDATION / SLAB - ROOF - DO NOT DISTURB
2. (E) VENT PIPE - DO NOT DISTURB, REMOVE IN ANOTHER PHASE
3. (E) WINDOW - DO NOT DISTURB
4. (D) EXISTING METAL SASH WINDOW - READY FOR NEW CONSTRUCTION
5. (D) CONCRETE WALL - SAWCUT 8" THICK CONCRETE WALL (BELOW WINDOW) TO EXISTING FLOOR SLAB, DO NOT OVERCUT CORNERS. SEE SECTIONS & EXTERIOR ELEVATIONS
6. (D) DOOR & FRAME - READY OPENING FOR NEW OPENING OR DOOR AND FRAME, SEE NEW FLOOR PLAN
7. (D) FLOOR SLAB - SELECTIVELY SAW CUT & DEMOLISH EXISTING FLOOR SLAB AS SHOWN FOR NEW SEWER LINE ROUTING TO FUTURE KITCHEN.
8. (D) DOOR COVER - ALL PARTS
9. (D) LIGHT - COVER WITH BLANK PLATE
10. (D) WALL MOUNTED DEVICE
11. (D) SIDING - SELECTIVELY DEMOLISH EXISTING SIDING
12. LINE OF WALL / FOUNDATION BEYOND - AS GRAPHICALLY SHOWN
13. (D) METAL GRATE & CABLES - REMOVE AND DISCARD.

## NEW & RENNOVATED

- A. GRAVEL INFILL - FILL NEW CAPPED FUTURE KITCHEN SEWER LINE HOLE WITH GRAVEL FLUSH TO FACE OF ADJACENT CONCRETE SLAB.
- B. FUTURE WALK IN COOLERS - LINE OF FUTURE WALK IN COOLERS TO BE INSTALLED AT A LATER DATE.
- C. HANDRAILS - HOLLOW METAL, GRIND ALL WELDS SMOOTH, PAINT, MOUNT TO WALL WITH WALL BRACKETS, PROVIDE BLOCKING FOR ATTACHMENT.
- D. ROOF DRAIN - SEE ROOFING PLAN & EXTERIOR ELEVATIONS
- E. 4 / A8.0 REMOVABLE INFILL WALLS - TO BE REMOVED IN THE FUTURE
- F. CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.
- G. GYPSUM BOARD - (2) LAYERS OF ⅝" TYPE 'X'.
- H. NEW DOOR OPENING - HOLLOW MTL. DOOR & FRAME
- J. NEW CONC. WALL BEYOND - RAMP WALL BEYOND
- K. NEW FOUNDATION WALL & FOOTING - AS PER STRUCTURAL
- L. FOUNDATION INSULATION - 3" THICK
- M. NEW EXTERIOR CONCRETE PAVING - SEE SITE PLAN
- N. NEW VINYL WINDOW - SEE WINDOW ELEVATIONS
- P. HEADER / BEAM / LEDGER - SEE STRUCTURAL DRAWINGS
- Q. ROOF JOISTS - 2x6's SEE STRUCTURAL DRAWINGS
- R. SISTERED ROOF JOISTS - 2x4's PLATED TO ROOF JOISTS. SEE DETAILS

# Wall & Ceiling Types

6 / A A8.0 INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE 'X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 ¼" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF ⅝" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 ¼" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 ½" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF ⅝" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER ⅝" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.


REGISTERED ARCHITECT
SCOTT A. MARSHALL
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W: www.StraightlineArchitects.com


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324

Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

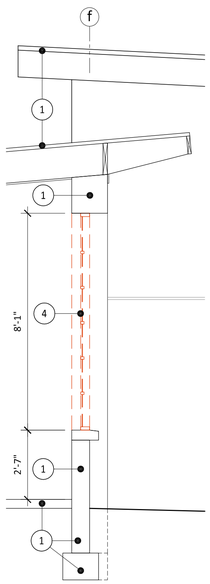
ISSUE: 2-1-22

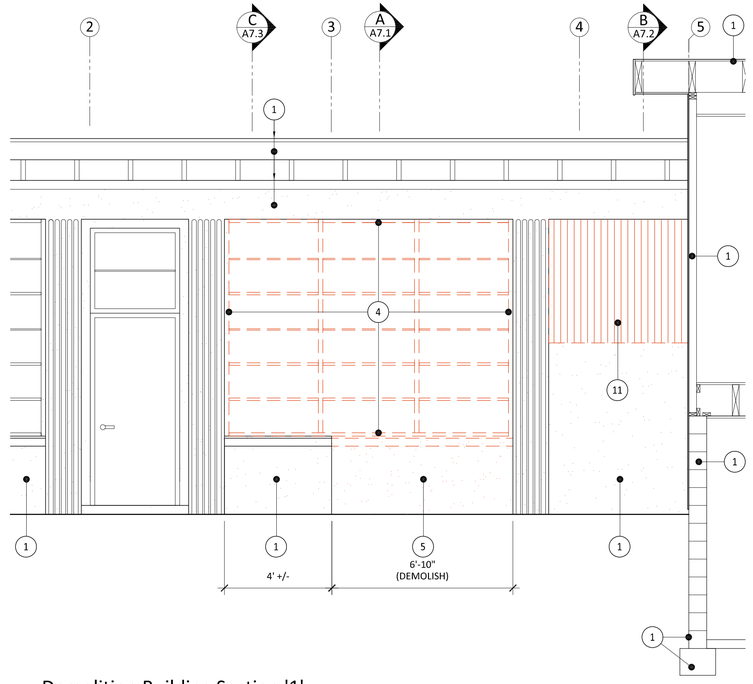
AGENCY & BID ISSUE

DRAWING NO.

A7.2

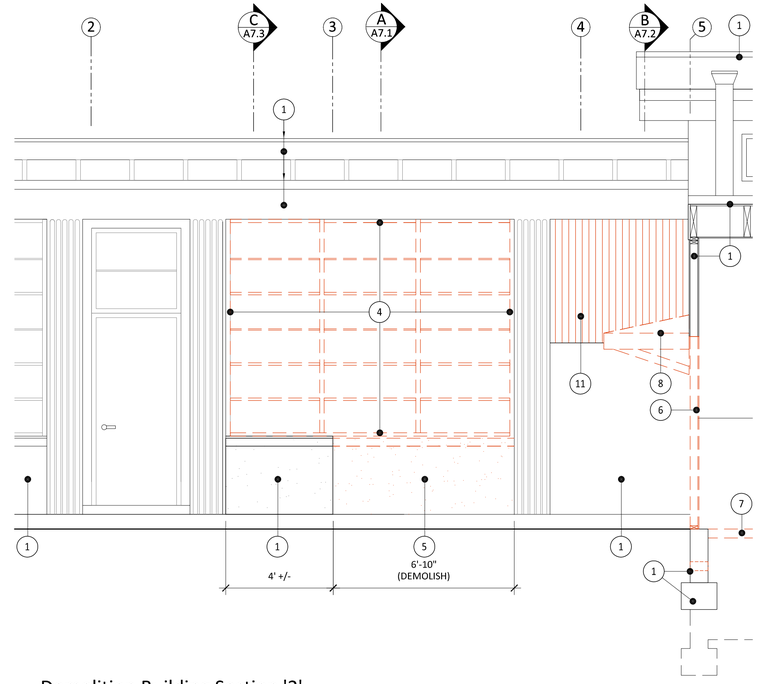
BUILDING SECTIONS 'B'



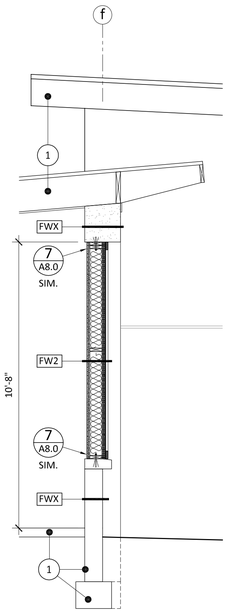



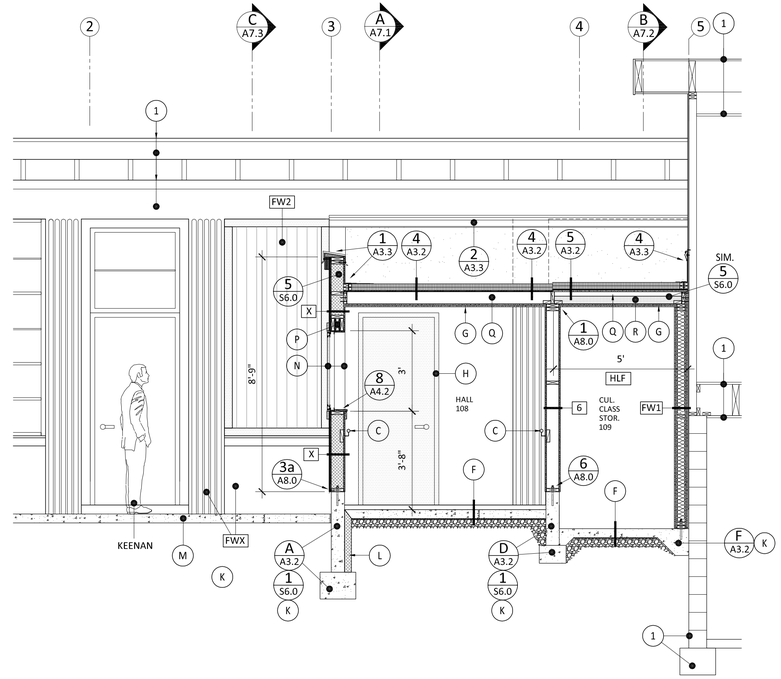

C A7.3 Demolition Wall Section 'C'
SCALE: 3/8" = 1'-0"

1 A7.3 Demolition Building Section '1'
SCALE: 3/8" = 1'-0"



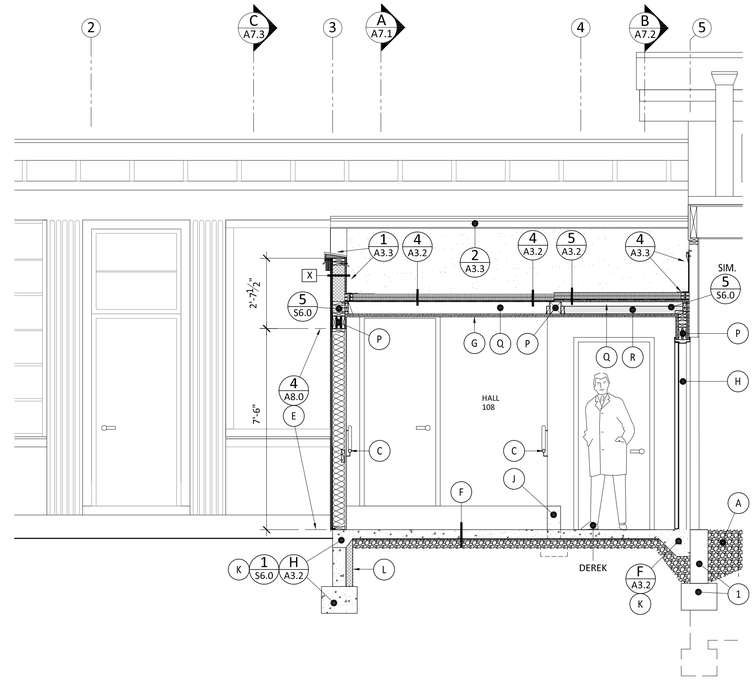

2 A7.3 Demolition Building Section '2'
SCALE: 3/8" = 1'-0"




C A7.3 New Wall Section 'C'
SCALE: 3/8" = 1'-0"

1 A7.3 New Building Section '1'
SCALE: 3/8" = 1'-0"




2 A7.3 New Building Section '2'
SCALE: 3/8" = 1'-0"

## General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

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### EXISTNG & DEMOLITION

1. (E) BUILDING WALL / FNDATION / SLAB - ROOF - DO NOT DISTURB
2. (E) VENT PIPE - DO NOT DISTURB, REMOVE IN ANOTHER PHASE
3. (E) WINDOW - DO NOT DISTURB
4. (D) EXISTING METAL SASH WINDOW - READY FOR NEW CONSTRUCTION
5. (D) CONCRETE WALL - SAWCUT 8" THICK CONCRETE WALL (BELOW WINDOW) TO EXISTING FLOOR SLAB, DO NOT OVERCUT CORNERS. SEE SECTIONS & EXTERIOR ELEVATIONS
6. (D) DOOR & FRAME - READY OPENING FOR NEW OPENING OR DOOR AND FRAME, SEE NEW FLOOR PLAN
7. (D) FLOOR SLAB - SELECTIVELY SAW CUT & DEMOLISH EXISTING FLOOR SLAB AS SHOWN FOR NEW SEWER LINE ROUTING TO FUTURE KITCHEN.
8. (D) DOOR COVER - ALL PARTS
9. (D) LIGHT - COVER WITH BLANK PLATE
10. (D) WALL MOUNTED DEVICE
11. (D) SIDING - SELECTIVELY DEMOLISH EXISTING SIDING
12. LINE OF WALL / FOUNDATION BEYOND - AS GRAPHICALLY SHOWN
13. (D) METAL GRATE & CABLES - REMOVE AND DISCARD.

### NEW & RENNOVATED

- A. GRAVEL INFILL - FILL NEW CAPPED FUTURE KITCHEN SEWER LINE HOLE WITH GRAVEL FLUSH TO FACE OF ADJACENT CONCRETE SLAB.
- B. FUTURE WALK IN COOLERS - LINE OF FUTURE WALK IN COOLERS TO BE INSTALLED AT A LATER DATE.
- C. HANDRAILS - HOLLOW METAL, GRIND ALL WELDS SMOOTH, PAINT, MOUNT TO WALL WITH WALL BRACKETS, PROVIDE BLOCKING FOR ATTACHMENT.
- D. ROOF DRAIN - SEE ROOFING PLAN & EXTERIOR ELEVATIONS
- E. 4 / A8.0 REMOVABLE INFILL WALLS - TO BE REMOVED IN THE FUTURE
- F. CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.
- G. GYPSUM BOARD - (2) LAYERS OF ⅝" TYPE 'X'.
- H. NEW DOOR OPENING - HOLLOW MTL. DOOR & FRAME
- J. NEW CONC. WALL BEYOND - RAMP WALL BEYOND
- K. NEW FOUNDATION WALL & FOOTING - AS PER STRUCTURAL
- L. FOUNDATION INSULATION - 3" THICK
- M. NEW EXTERIOR CONCRETE PAVING - SEE SITE PLAN
- N. NEW VINYL WINDOW - SEE WINDOW ELEVATIONS
- P. HEADER / BEAM / LEDGER - SEE STRUCTURAL DRAWINGS
- Q. ROOF JOISTS - 2x6's SEE STRUCTURAL DRAWINGS
- R. SISTERED ROOF JOISTS - 2x4's PLATED TO ROOF JOISTS. SEE DETAILS

## Wall & Ceiling Types

6 / A A8.0 INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE 'X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 ½" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF ⅝" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 ¼" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 ½" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF ⅝" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER ⅝" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 ½" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

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4521 South Cloverdale Road,
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Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

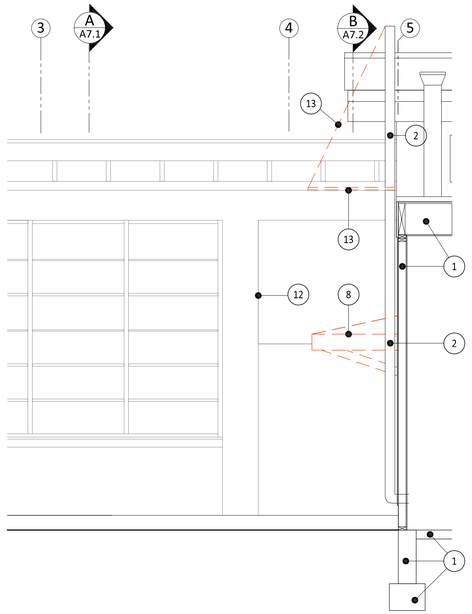
ISSUE: 2-1-22

AGENCY & BID ISSUE

DRAWING NO.

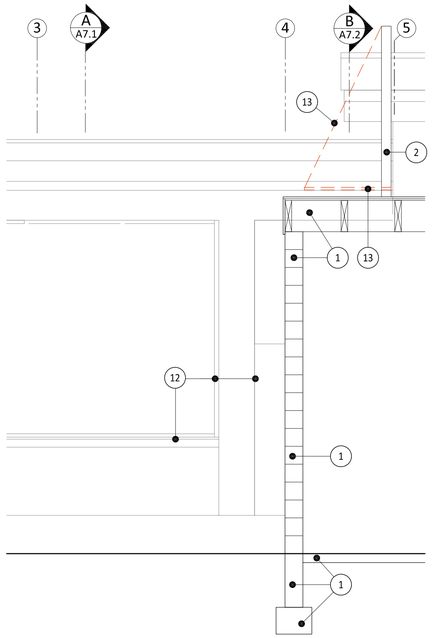
# A7.3

BUILDING SECTIONS 'C', '1' & '2'



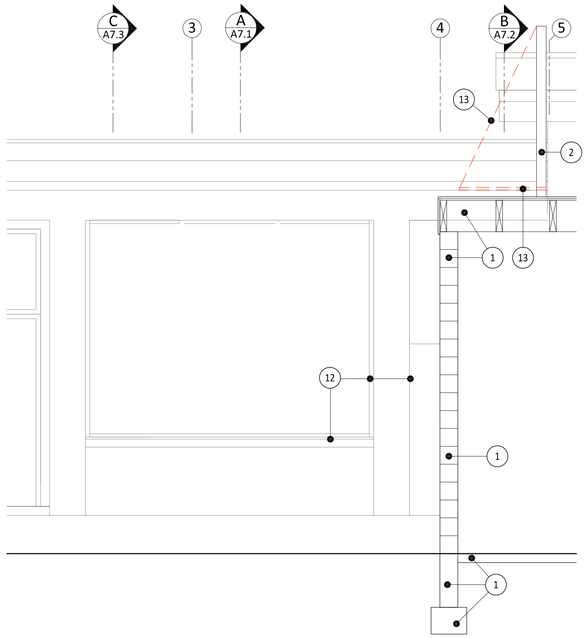
## 3 A7.4 Demolition Building Section '3'

SCALE: 3/8" = 1'-0"



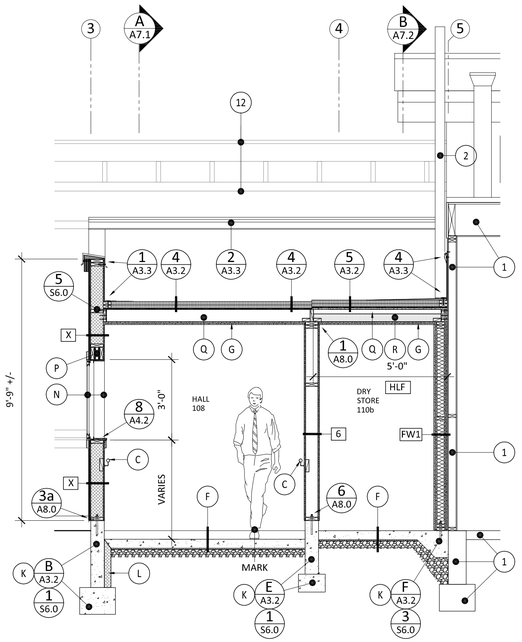
## 4 A7.4 Demolition Building Section '4'

SCALE: 3/8" = 1'-0"



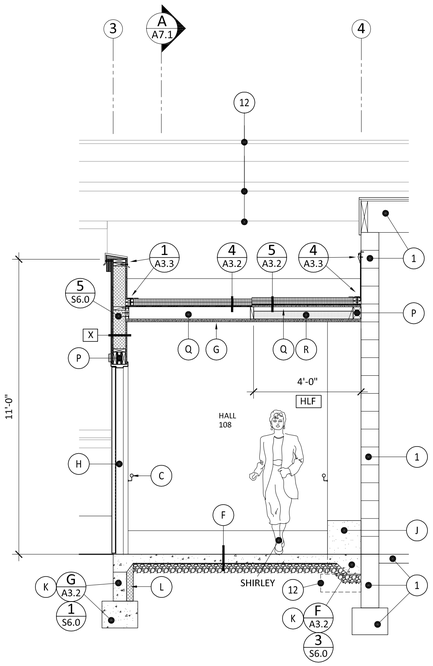
## 5 A7.4 Demolition Building Section '5'

SCALE: 3/8" = 1'-0"



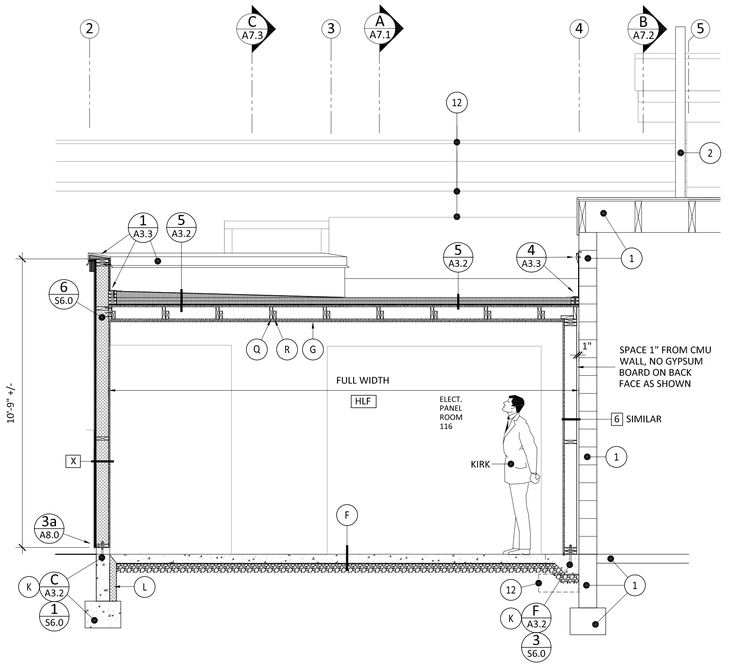
## 3 A7.4 New Building Section '3'

SCALE: 3/8" = 1'-0"



## 4 A7.4 New Building Section '4'

SCALE: 3/8" = 1'-0"



## 5 A7.4 New Building Section '5'

SCALE: 3/8" = 1'-0"

# General Notes

1. BUILDING ELEMENTS NOT NOTATED SHALL REMAIN UNDISTURBED.

2. ANY CHANGES OR MODIFICATIONS TO THE PROJECT DURING CONSTRUCTION SHALL BE APPROVED BY ARCHITECT PRIOR TO WORK BEING DONE, AND SHALL BE RECORDED ON THE CONTRACTORS AS-BUILT DRAWINGS.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AS STATED IN THE PROJECT MANUAL.

4. THE CONTRACTOR SHALL PAY FOR AND INCLUDE IN HIS BID ALL REQUIRED CONSTRUCTION PERMITS EXCEPT FOR THE OVERALL BUILDING PERMIT WHICH SHALL BE PAID BY THE OWNER.

TYPICAL REMODEL FINISH SCOPE:

1. TAPE, TEXTURE & PAINT ALL NEW & EXISTING WALLS AS PER ROOM FINISH SCHEDULE, BLEND & PATCH (N) & (E) WALL INTERSECTIONS.

2. PAINT WALLS AND CEILINGS IN SCHEDULED AREAS TOP TO BOTTOM, EDGE TO EDGE.

3. THE CONTRACTOR SHALL PREPARE (E) SURFACES AS NECESSARY TO RECEIVE NEW FINISH MATERIALS, INTERIOR WALL ELEVATIONS AND SCHEDULE WALL TYPES FOR REQUIRED FINISHES, SEE PROJECT MANUAL FOR COLORS, PATTERNS, AND PAINT TYPES.

# Reference Notes

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## EXISTNG & DEMOLITION

1. (E) BUILDING WALL / FNDATION / SLAB - ROOF - DO NOT DISTURB
2. (E) VENT PIPE - DO NOT DISTURB, REMOVE IN ANOTHER PHASE
3. (E) WINDOW - DO NOT DISTURB
4. (D) EXISTING METAL SASH WINDOW - READY FOR NEW CONSTRUCTION
5. (D) CONCRETE WALL - SAWCUT 8" THICK CONCRETE WALL (BELOW WINDOW) TO EXISTING FLOOR SLAB, DO NOT OVERCUT CORNERS. SEE SECTIONS & EXTERIOR ELEVATIONS
6. (D) DOOR & FRAME - READY OPENING FOR NEW OPENING OR DOOR AND FRAME, SEE NEW FLOOR PLAN
7. (D) FLOOR SLAB - SELECTIVELY SAW CUT & DEMOLISH EXISTING FLOOR SLAB AS SHOWN FOR NEW SEWER LINE ROUTING TO FUTURE KITCHEN.
8. (D) DOOR COVER - ALL PARTS
9. (D) LIGHT - COVER WITH BLANK PLATE
10. (D) WALL MOUNTED DEVICE
11. (D) SIDING - SELECTIVELY DEMOLISH EXISTING SIDING
12. LINE OF WALL / FOUNDATION BEYOND - AS GRAPHICALLY SHOWN
13. (D) METAL GRATE & CABLES - REMOVE AND DISCARD.

## NEW & RENNOVATED

A. GRAVEL INFILL - FILL NEW CAPPED FUTURE KITCHEN SEWER LINE HOLE WITH GRAVEL FLUSH TO FACE OF ADJACENT CONCRETE SLAB.

B. FUTURE WALK IN COOLERS - LINE OF FUTURE WALK IN COOLERS TO BE INSTALLED AT A LATER DATE.

C. HANDRAILS - HOLLOW METAL, GRIND ALL WELDS SMOOTH, PAINT, MOUNT TO WALL WITH WALL BRACKETS, PROVIDE BLOCKING FOR ATTACHMENT.

D. ROOF DRAIN - SEE ROOFING PLAN & EXTERIOR ELEVATIONS

E. 4 / A8.0 REMOVABLE INFILL WALLS - TO BE REMOVED IN THE FUTURE

F. CONCRETE FLOOR SLAB - **PLACE VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.** SEE STRUCTURAL DRAWINGS FOR THICKNESS, MIX, & FINISH REQUIREMENTS.

G. GYPSUM BOARD - (2) LAYERS OF 5/8" TYPE 'X'.

H. NEW DOOR OPENING - HOLLOW MTL. DOOR & FRAME

J. NEW CONC. WALL BEYOND - RAMP WALL BEYOND

K. NEW FOUNDATION WALL & FOOTING - AS PER STRUCTURAL

L. FOUNDATION INSULATION - 3" THICK

M. NEW EXTERIOR CONCRETE PAVING - SEE SITE PLAN

N. NEW VINYL WINDOW - SEE WINDOW ELEVATIONS

P. HEADER / BEAM / LEDGER - SEE STRUCTURAL DRAWINGS

Q. ROOF JOISTS - 2x6's SEE STRUCTURAL DRAWINGS

R. SISTERED ROOF JOISTS - 2x4's PLATED TO ROOF JOISTS. SEE DETAILS

# Wall & Ceiling Types

6 / A8.0 **INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR):** 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE 'X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 **EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) :** 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 1/2" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF 5/8" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF 5/8" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF 5/8" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 1/2" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 1/2" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 1/2" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 1/2" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF 5/8" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.


REGISTERED ARCHITECT
SCOTT A. MARSHALL
BOISE, IDAHO 5794
STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
ALSEA, OREGON 97324


CB Const. Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

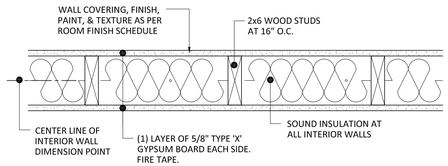
STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
Suite 102 - Boise, Idaho 83709
P: 208.991.0855
E: Scott@Straightline.biz
W: www.StraightlineArchitects.com


| | |
|---|---|
| Date: | 1-27-2022 |
| Project: | ALS-1821 |
| Version History: | V1.0 |
| PHASES (PH): | 1b.7 |
| ISSUE: | 2-1-22 |
| AGENCY & BID ISSUE | |

DRAWING NO.

# A7.4

BUILDING SECTIONS '3', '4' & '5'

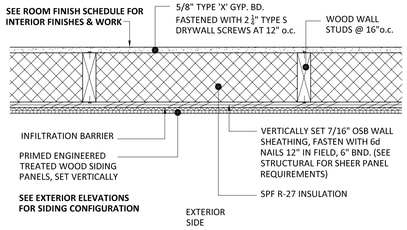



OSSP 721.1(2) - 15-1.12
1-HOUR Interior 2x6 Full Height framed wood walls

## A A8.0 '6': 1-HOUR INTERIOR Horizontal Wall Section

HEAD 1 A8.0 SILL 2 A8.0

Scale: 1 1/2" = 1'-0"

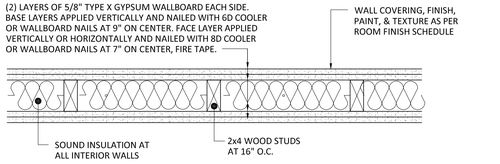



OSSP 721.1(2) - 15-1.12
1-HOUR Exterior Building Envelope at New Construction

## B A8.0 'X': 1-HOUR EXTERIOR Horizontal Wall Section

SILL 3a A8.0

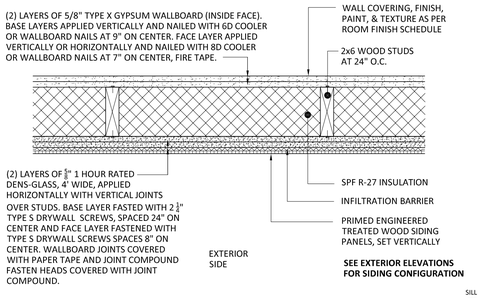
Scale: 1 1/2" = 1'-0"




OSSP 721.1(2) - 14-1.5 - 'FWA #1' -
2-HOUR Interior 2x6 Full Height framed wood walls

## C A8.0 'FW1': 2-HOUR INTERIOR Horizontal Wall Section

Scale: 1 1/2" = 1'-0"

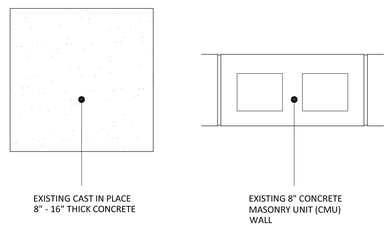



OSSP 721.1(2) - 15-1.16 - 'FWA #2' -
2-HOUR Exterior 2x6 Full Height framed wood walls

SILL 3b A8.0

## D A8.0 'FW2': 2-HOUR EXTERIOR Horizontal Wall Section

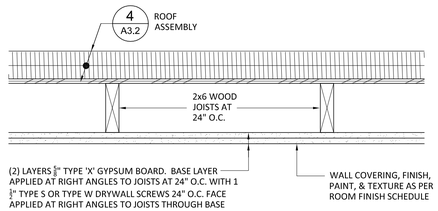
Scale: 1 1/2" = 1'-0"




OSSP 721.1(2) - 3-1.1, 8" / 16" -'FWA #3' & 'FWA #4' -
2-HOUR Exterior 8" CMU / 16" CONCRETE

## E A8.0 'FWX': (EXISTING) 2+HOUR EXTERIOR Horizontal Wall Section

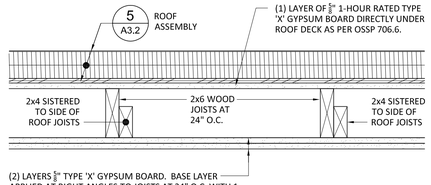
Scale: 1 1/2" = 1'-0"




OSSP 721.1(2) - 21-1.1
1-HOUR Exterior Roof & Ceiling

## F A8.0 'HLT': 1 HOUR CEILING Horizontal Section

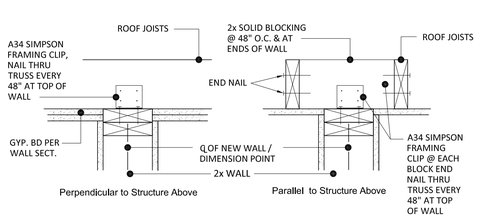
Scale: 1 1/2" = 1'-0"




OSSP 721.1(2) - 21-1.1 & OSSP 706.6 At Fire Wall
1-HOUR Exterior Roof at Fire Wall

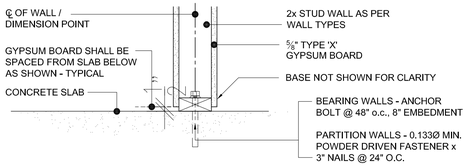
## G A8.0 'HLF': 1 HOUR CEILING at FIRE WALL Horizontal Section

Scale: 1 1/2" = 1'-0"



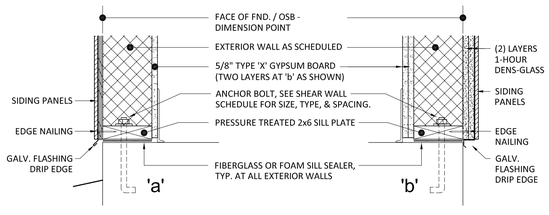

## 1 A8.0 Top Plate Connection - Full Height Walls

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



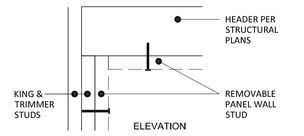

## 2 A8.0 Sill Plate Connection - Stud Partition & Bearing Walls

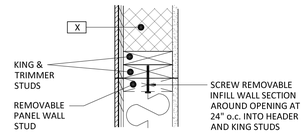
Scale: 1 1/2" = 1'-0"

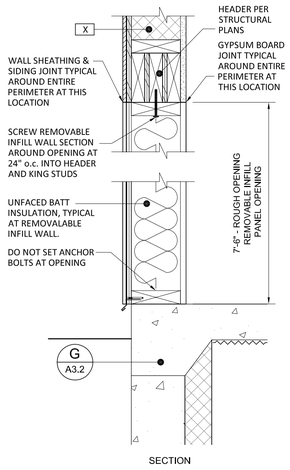



## 3a,b A8.0 Exterior Sill Plate & Construction

Scale: 1 1/2" = 1'-0"



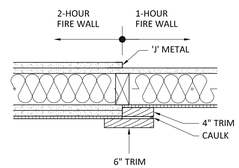




## 4 A8.0 Exterior Removable infill walls

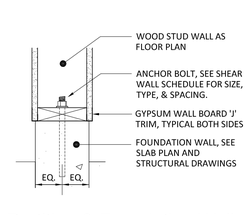
INFILL WALLS WILL BE REMOVED WHEN WALK IN COOLERS ARE INSTALLED IN FUTURE PROJECT PHASE

Scale: 1 1/2" = 1'-0"



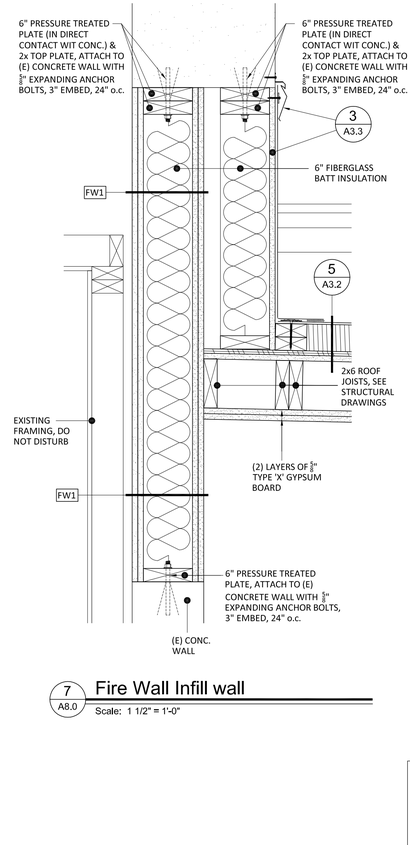

## 5 A8.0 Fire Wall Transition

Scale: 1 1/2" = 1'-0"




## 6 A8.0 Partition & Foundation Wall

Scale: 1 1/2" = 1'-0"




## 7 A8.0 Fire Wall Infill wall

Scale: 1 1/2" = 1'-0"

## Wall & Ceiling Types

6 / A A8.0 — INTERIOR: PARTITION & BEARING WALL (TYPICAL 1-HOUR): 2x6 WOOD STUDS AT 16" O.C W/ SOLID BLOCKING @ 48" OC. FACE W/ 5/8" TYPE 'X' GYP. BD. (FIRE TAPE) PROVIDE SOUND BATT INSULATION AT ALL INTERIOR WALLS.

X / B A8.0 — EXTERIOR: AT BUILDING ENVELOPE (TYPICAL 1-HOUR) : 2x6 WOOD STUDS @ 16"O.C. ON SILL PLATE, ON SILL SEALER, W/ AB'S PER STRUCTURAL - INSULATE WALL WITH CLOSED CELL SPRAY POLYURETHANE FOAM (SPF) - R-27 - SEE FRAMING PLAN FOR LOCATION AND NAILING REQ'S FOR SHEAR WALLS & PANELS. - *INSIDE FACE* = 5/8" TYPE 'X' GYP. BD. FASTENED WITH 2 ½" TYPE S DRYWALL SCREWS AT 12" o.c. *EXTERIOR FACE* = VERTICALLY SET 7/16" OSB MIN. FASTEN WITH 6d NAILS 12" IN FIELD, 6" BND. WITH INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FW1 / C A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #1') INTERIOR: 2X4 WOOD STUDS AT 16" ON CENTER WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD EACH SIDE. BASE LAYERS APPLIED VERTICALLY AND NAILED WITH 6D COOLER OR WALLBOARD NAILS AT 9" ON CENTER. FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8D COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, BASE LAYERS ARE NAILED 6" ON CENTER. FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER

FW2 / D A8.0 — **2-HOUR FIRE WALL** (NEW 'FWA #2') EXTERIOR: 2X6 WOOD STUDS AT 24" CENTERS WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR SIDE COVERED WITH TWO LAYERS OF ⅝" TYPE X GYPSUM WALLBOARD, EXTERIOR COVERED WITH TWO LAYERS OF ⅝" 1 HOUR RATED DENS-GLASS, 4' WIDE, APPLIED HORIZONTALLY WITH VERTICAL JOINTS OVER STUDS. BASE LAYER FASTED WITH 2 ½" TYPE S DRYWALL SCREWS, SPACED 24" ON CENTER AND FACE LAYER FASTENED WITH TYPE S DRYWALL SCREWS SPACES 8" ON CENTER. WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND FASTEN HEADS COVERED WITH JOINT COMPOUND. CAVITY TO BE FILLED WITH 5 ½" MINERAL WOOL INSULATION. *EXTERIOR FACE* = INFILTRATION BARRIER. *SIDING:* PRIMED ENGINEERED TREATED WOOD SIDING PANELS, SET VERTICALLY (SEE ELEVATIONS FOR SIZE & LOCATION OF TRIM, AND COLOR REQUIREMENTS.)

FWX / E A8.0 — **2-HOUR FIRE WALL** (EXISTING 'FWA #3' & 'FWA #4'): *EXISTING CMU OR CONCRETE WALL, DO NOT DISTURB. SEE CODE ANALYSIS SHEET A1.1 FOR MORE INFORMATION*

HLT / F A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): **CEILING:** SHALL BE A BASE LAYER OF ⅝" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO JOISTS AT 24" O.C. WITH 1 ¼" TYPE S OR TYPE W DRYWALL SCREWS 24" O.C. FACE LAYER ⅝" TYPE 'X' GYPSUM WALLBOARD BASE APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH 1 ⅝" TYPE S OR TYPE W DRYWALL SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE G DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS. 12" O.C. TAPE TEXTURE AND PAINT FACE LAYER AS PER ROOM FINISH SCHEDULE.

HLF / G A8.0 — **1-HOUR CEILING ASSEMBLY** (NEW): ALL ASSEMBLY 'HLT' ABOVE APPLY. PROVIDE ADDITIONAL COMPONENTS AS FOLLOWS; SISTER 2x4 TO SIDE OF ROOF JOIST AND PROVIDE (1) LAYER OF ⅝" TYPE 'X' GYPSUM BOARD DIRECTLY UNDER ROOF DECK AS PER OSSP 706.6.


REGISTERED ARCHITECT — SCOTT A. MARSHALL — BOISE, IDAHO 5794 — STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 2nd STREET
ALSEA, OREGON 97324


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road
Suite 102 - Boise, Idaho 83709
P: 208.991.0855
E: Scott@StraightlineArchitects.com
W: www.StraightlineArchitects.com

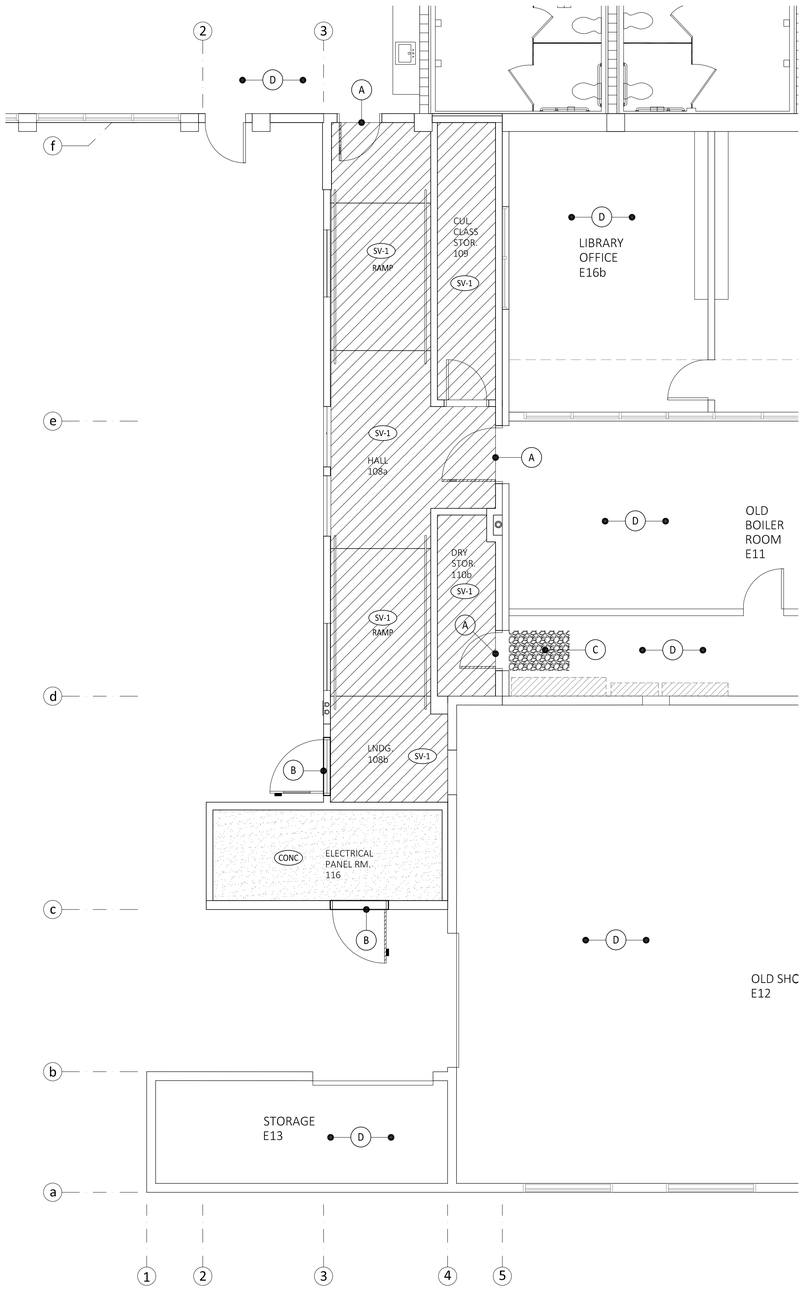

Date: 1-27-2022
Project: ALS-1821
Version History: V1.0

PHASES (PH): 1b.7

ISSUE: 2-1-22

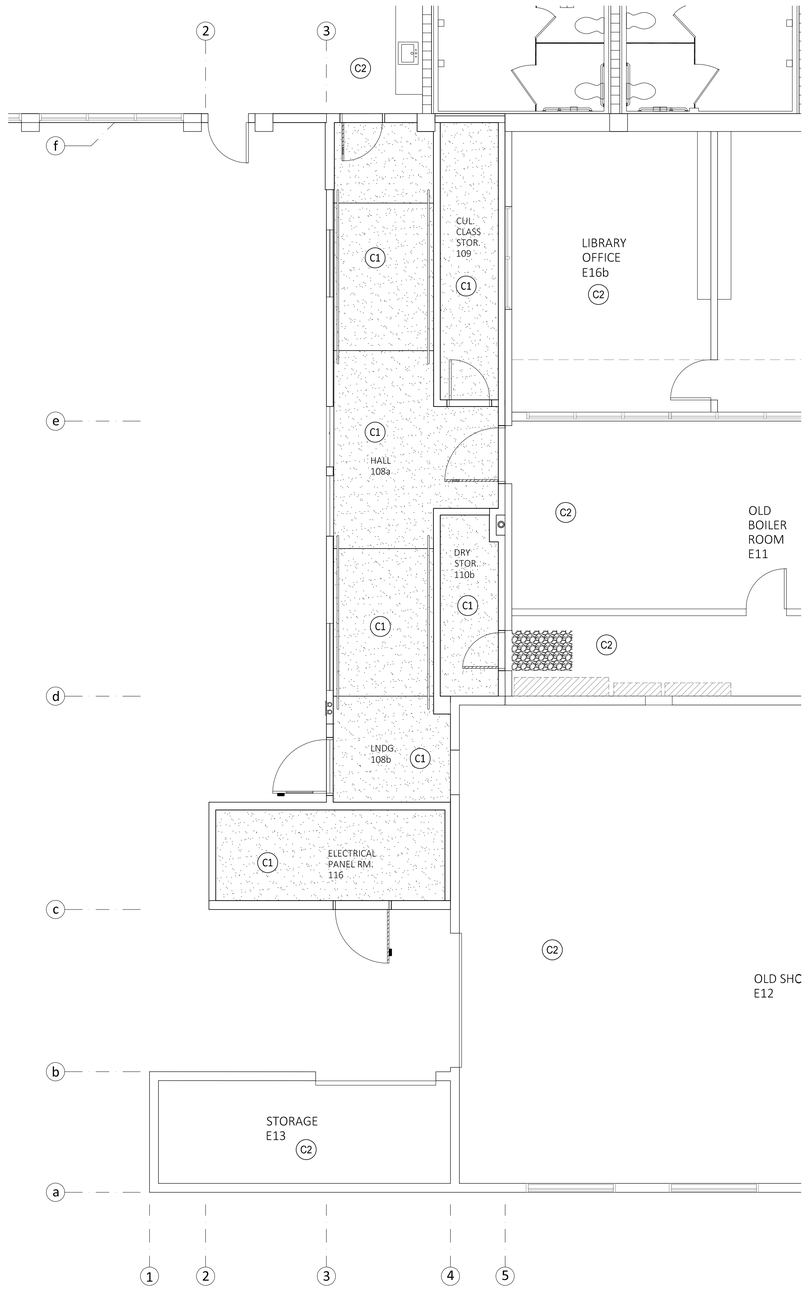
AGENCY & BID ISSUE

DRAWING NO.
A8.0
Details




1 A11.1 **Flooring Plan**

SCALE: 3/16" = 1'-0"




2 A11.1 **Reflected Ceiling Plan**

SCALE: 3/16" = 1'-0"

## General Notes

*Applicable to this sheet only*

1- FLOORING PRODUCT JOINTS & PLACEMENT SHALL BE INSTALLED AS GRAPHICALLY SHOWN - MATERIALS SHALL ALIGN WITH OTHER TRADES ADJACENT WORK . IF CHANGES IN LAYOUT PATTERN ARE NECESSARY, CONSULT ARCHITECT PRIOR TO CONSTRUCTION OF WORK AND INSTALLATION OF PRODUCTS. ANY NON-CONFORMING WORK MAY BE REMOVED AT CONTRACTORS EXPENSE AS PER THE ARCHITECTS DIRECTION.

2 - SEE ROOM FINISH SCHEDULE FOR MORE INFORMATION REGARDING COLORS AND FINISHES.

3 - THE TERM 'NATURAL' REFERS TO TYPICAL GRAY CONCRETE OR FACTORY MASONRY COLORS.

GENERAL ABBREVIATIONS:

| | |
|---|---|
| (N) | NEW |
| (D) | DEMOLISH |
| (E) | EXISTING |
| (X") | HEIGHT ABOVE FIN. FLOOR |
| (TYP) | TYPICAL (X)=# |
| (NIC) | NOT IN CONTRACT |
| (UNO) | UNLESS NOTED OTHERWISE |
| (X) | NUMBER OR QUANTITY |

SPECIFIC ABBREVIATIONS:

| | |
|---|---|
| BOT or B | BOTTOM |
| BLDG | BUILDING |
| CEIL | CEILING |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CMU | MASONRY |
| EA | EACH |
| EXT | EXTERIOR |
| FF | FINISH FLOOR |
| INT | INTERIOR |
| MTL | METAL |
| REF | REFERENCED |
| TOS | TOP OF SLAB |
| TP | TOP PLATE |
| TO or T | TOP OF |
| TOP | TOP OF PARAPET |
| T&B | TOP & BOTTOM |
| VERT (V) | VERTICAL |
| HORIZ (H) | HORIZONTAL |

## Flooring Legend

*Applicable to this sheet only*

SV-1 NEW — SHEET VINYL FLOOR COVERING & BASE - AS PER ROOM FINISH SCHEDULE & PROJECT MANUAL

CONC NEW — NATURAL CONCRETE - SEALED, NATURAL GRAY

## Reference Notes

*Applicable to this sheet only*

*NOTE: DEMOLITION SHOWN IS PRESCRIPTIVE IN NATURE - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL REQUIRED DEMOLITION TO ACCOMPLISH THE COMPLETED NEW OR REMODELED CONDITION SHOWN ON THE PROJECT DOCUMENTS.*

NEW & RENNOVATED

A — FLOOR COVERING TRANSITION - TO OCCUR AT INTERIOR DOOR THRESHOLDS OR AT CENTERLINE OF DOOR FRAME (DIRECTLY BELOW DOOR ABOVE) OR AT EXISTING FLOORING TRANSITION LOCATION - REFER TO PROJECT MANUAL FOR TRANSITION STRIPS. IF NOT SPECIFIED, INSTALL INDUSTRY STANDARD TRANSITION STRIP MATERIAL AS APPROPRIATE FOR FLOORING PRODUCT.

B — NEW DOOR THRESHOLD - PROVIDE NEW EXTERIOR DOOR THRESHOLD AS REQUIRED, SEE DOOR HARDWARE SCHEDULE, COORDINATE INSTALL

C — GRAVEL INFILL - AT EXISTING CONCRETE SLAB, SEE FLOOR PLAN

D — EXISTING FLOOR - DO NOT DISTURB

## Interior Color & Material Schedule

*See Project Manual for Material & Finish Requirements & Specifications, if applicable.*

FLOORING & BASE

- SV-1 — SHEET VINYL COLOR / MANF. , 'SV'
- CONC — CONCRETE, NATURAL GRAY 'CONC'
- RB-1 — RUBBER BASE, 4" COLOR 'RB1' at 'SV'
- RB-2 — RUBBER BASE, 4" COLOR, 'RB2' at 'CONC'

INTERIOR WALLS & CEILING

- Pi-1 — 'WHITE' PAINT, INTERIOR, SEMI-GLOSS, COLOR 'P1' GYP. BD. TEXTURE: LIGHT ORANGE PEEL ,
- Pi-2 — 'INTERIOR METAL DOORS & FRAMES' PAINT, HIGH-GLOSS, COLOR 'P2'

## General Notes

APPLICABLE TO THIS SHEET ONLY

1 - REFER TO ELECTRICAL AND MECHANICAL SHEETS FOR VERIFIED QUANTITIES OF FIXTURES, DEVICES, DIFFUSERS, GRILLS, ETC. - LOCATE ELEMENTS SHOWN ON THIS SHEET AS DIMENSIONED.

2 - SEE ROOM FINISH SCHEDULE FOR MORE INFORMATION

3 - NOTE: SEE ELECTRICAL SHEETS FOR FIXTURE TYPE & LIGHTING CALCULATIONS.

GENERAL ABBREVIATIONS:

| | |
|---|---|
| (N) | New |
| (D) | Demolish |
| (E) | Existing |
| (X") | Height Above Fin. Floor |
| (TYP) | Typical (x)=# |
| (NIC) | Not in Contract |
| (UNO) | Unless Noted Otherwise |
| (X) | Number or Quantity |

TERMS:

FACE: OUTERMOST EDGE / PLANE OF OBJECT

CENTER: CENTER OBJECT ALONG FACE OR WITHIN AREA AS GRAPHICALLY SHOWN

ALIGN: ARRANGE ADJACENT OBJECTS / FACES TO BE FLUSH WITH ONE ANOTHER.

## Legend

X'-X" — CEILING / BULKHEAD HEIGHT (A.F.F) - Coordinated with Architectural Sections & Room Finish Schedule

C1 — NEW GYPSUM BOARD CEILING - Hard Lid Gypsum Board ceiling on Underside of New & Existing wood trusses, Light Orange Peel.

C2 — UNDISTURBED GYPSUM BOARD CEILING - Existing Hard Lid Gypsum Board ceiling on Underside of Existing wood trusses or ceiling joists, see room finish schedule for finish requirements.

MECHANICAL / ELECTRICAL COORDINATION NOTE: Mechanical system locations of diffusers / grilles shall be coordinated & installed to accommodate light fixture placement as shown on the Mechanical & Electrical Plans


REGISTERED ARCHITECT — SCOTT A. MARSHALL — BOISE, IDAHO 5794 — STATE OF OREGON


# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

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| | |
|---|---|
| Date: | 1-27-2022 |
| Project: | ALS-1821 |
| Version History: | V1.0 |

PHASES (PH): 1b.7

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AGENCY & BID ISSUE

DRAWING NO.

**A11.1**

REFLECTED CEILING & FLOORING PLANS

## GENERAL NOTES & DESIGN CRITERIA

1. GENERAL.
   - A. These general structural notes and specifications supplement the project written technical specifications and the project structural drawings.
   - B. The Contractor is responsible for all construction bracing, temporary shoring, and other site safety controls required during construction in accordance with all applicable Local, State and Federal regulations, to insure the stability and safety of all construction until it is completed and self-supporting.
   - C. The Contractor is responsible for all water, both above and below ground, runoff and other environmental controls required during construction to insure the site is maintained in compliance with all applicable Local, State and Federal regulations.
   - D. Details on these plans are intended to depict the general construction details and methods for this structure. Connection details and conditions not specifically shown that are similar in nature to those that are specified shall be assumed one and the same. If questions regarding the application of details are encountered, notify the Architect/Engineer for clarification or instruction.
   - E. Prior to implementing any changes to these plans, the Architect/Engineer shall be notified in writing for their written approval. Changes implemented without the Architect/Engineers written approval shall relieve the Architect/Engineer of any claim or liability resulting from that portion of the structure changed or affected by the change.

2. CONTRACTOR RESPONSIBILITY FOR COORDINATION
   - A. It is the Contractors Prime responsibility to coordinate the work shown on all of the Project Drawings, general, special and technical specifications.
   - B. The Contractor is responsible to verify all existing construction material types dimensions, elevations and conditions.
   - C. The Contractor shall verify and coordinate the dimensions among all drawings and in the field prior to proceeding with any work or fabrication, any discrepancy shall be immediately reported to the Architect/Engineer.
   - D. It is the Contractor's responsibility to carefully study and coordinate the construction requirements shown on both the Architectural and the Structural Drawings. When conflicts or discrepancies are found between these plan sets and/or within these drawings, the Contractor shall report them immediately to the project Architect/Engineer for direction and/or clarification.
   - E. Any construction work done by the Contractor before obtaining such clarification from the Project Architect/Engineer shall be at the Contractor's own risk and cost. Furthermore; any work required to correct, replace and/or restore the work as directed by the Architect/Engineer shall be at the Contractor's own risk and cost.

3. CODES.
   - A. International Building Code, IBC Current Edition.
   - B. Oregon Structural Specialty Code - OSSC Current Edition.
   - C. Minimum Design Loads for Buildings and Other Structures, ASCE 7; current edition.
   - D. American Concrete Institute, ACI 318, Building Code Requirements for Structural Concrete; current edition.
   - E. American Concrete Institute, ACI 530, Building Code Requirements and Specifications for Masonry Structures; current edition.
   - F. American Concrete Institute, ACI 301, Specifications for Structural Concrete.
   - G. American Institute of Steel Construction, AISC 13th Edition, Steel Construction Manual.
   - H. American Welding Society, AWS D1.1 current edition, Structural Welding Code.
   - I. National Design Specifications, NDS For Wood Construction; current edition.
4. DESIGN CRITERIA.
   - A. OCCUPANCY OR USE; IBC/OSSC Table 1607.1:
   - B. LIVE LOADS:
     - a. Minimum Roof Snow Load: 25 psf (snow)
     - b. Ground Snow Load, Pg: 11 psf
     - c. Unbalanced Snow per ASCE-7, Chapter 7
   - C. DEAD LOADS
     - a. Roof Dead Load: 22 psf
       - a.a. Truss Top Chord: 15 psf
       - a.b. Truss Bottom Chord: 7 psf
   - D. WIND:
     - a. Basic Wind Speed: 110 mph (LRFD)
     - b. Site Exposure: C
   - E. SEISMIC:
     - a. Earthquake Spectral Response Acceleration:
     - b. Importance factor, Ie: 1.25
     - i. Short Period, Ss: 1.05
     - ii. 1-Second, S1: 0.56
     - c. Soil Class: D
     - d. Seismic Use Group: III
     - e. Seismic Design Category: D
   - F. MECHANICAL:
     - a. Refer to framing plans and mechanical equipment loads.

## SPECIAL INSPECTIONS

1. Special inspections per IBC Chapter 17 are required for the following items listed below.
2. Special inspection will be provided by a certified or qualified inspector and associated testing will be performed by an approved/accredited agency. Inspectors shall be International Code Council (ICC) certified or otherwise approved by the building official.
3. The special inspector shall observe the indicated work for compliance with the approved contract documents and submit records of inspection. All discrepancies will be brought to the immediate attention of the contractor for correction.
4. Special inspection and associated testing reports will be submitted to the architect, engineer, contractor, building official, and owner within one week of inspection or within one week of test completion.
5. At the conclusion of construction, a final report documenting required special inspections and correction of previously noted discrepancies will be submitted to the parties identified in item "4" above.
6. Foundation and site preparation, including structural fills, shall be observed by the Geotechnical Engineer in accordance with the geotechnical investigation for this project.

## SPECIAL INSPECTIONS CONTINUED

| ITEM | FREQUENCY | | SPECIAL NOTES |
|---|---|---|---|
| | CONTINUOUS | PERIODIC | |
| **CONCRETE** | | | |
| INSPECTION OF POST-INSTALLED ANCHORS | X | | |
| REINFORCEMENT PLACEMENT | | X | |
| PLACEMENT OF CAST-IN-PLACE ANCHORS | | X | |
| CONCRETE PLACEMENT | X | | |
| VERIFICATION OF USE OF MIX DESIGN | | X | |
| TESTING/SAMPLING FOR CONCRETE STRENGTH, SLUMP, AIR CONTENT, AND TEMPERATURE | X | | |
| **WOOD** | | | |
| FABRICATION OF PRE-FABRICATED STRUCTURAL ELEMENTS | | X | |
| MATERIAL VERIFICATION OF STRUCTURAL PANELS AND NAILS FOR DIAPHRAGMS AND SHEAR WALLS w/EDGE NAILING. | | X | |
| CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, DRAG TRUSSES BRACING, AND SHEAR WALL HOLD-DOWNS. | | X | |
| **STEEL** | | | |
| FABRICATION OF STRUCTURAL ELEMENTS | | X | |
| MATERIAL VERIFICATION OF ANCHOR BOLTS | | X | |
| SINGLE PASS FILLET WELDS > $\frac{5}{16}$" | X | | |
| WELDING IN THE SHOP OF AN APPROVED FABRICATOR SHALL NOT REQUIRE SPECIAL INSPECTION. | | | |

*** ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY ICBO CERTIFIED INSPECTORS.

## SUBMITTALS & DEFERRED SUBMITTALS

1. SUBMITTALS.
   - A. Submit electronically product and material design information to the Architect/Engineer for review for the following items:
     - a. Concrete mix designs and admixtures.
     - b. Epoxy Anchors.

2. DEFERRED SUBMITTALS.
   - A. The following items to be designed by others are considered "Deferred Submittals". Upon review by the Engineer of all design documentation and shop drawings, Contractor must transmit to the local building official, for their review and approval, prior to fabrication and erection. Deferred submittals shall be accompanied by design drawings, shop drawings and structural calculations, stamped and signed by a Professional Engineer currently registered in the State of Oregon.
     - a. Pre-engineered and shop fabricated wood joists and trusses.

## SHOP DRAWINGS

1. Submit required shop drawings to the Architect/Engineer for review prior to fabrication of the following items:
   - A. Reinforcing steel for all concrete.
   - B. Structural Steel

## FOUNDATIONS

1. All footings to be placed on firm undisturbed, inorganic material. Proof roll sub-grade prior to placing concrete where the material has been disturbed by the excavating equipment.
2. All piers and footings outside or at the perimeter of the structure, or in other unheated areas shall be set to a depth of at least 12-in. below finish grade, unless otherwise noted on the plans.
3. All foundations and retaining walls below finish grade shall receive an approved damp-proof coating. Foundation walls below maximum anticipated ground water levels shall receive an approved water-proof coating; extend water-proofing to a minimum of 1'-0" above the maximum anticipated ground water level.
4. Allowable bearing pressure for all footings Qa = 2,500 psf
5. Local areas of soft and/or unacceptable material encountered at bottom of footing elevations indicated on the plans must be over-excavated and brought up to design grade with compacted structural fill or lean concrete fill.
6. All structural fill and/or backfill shall be granular, free draining, material; Unified Soils Classification GW, GP, GM or SW; maximum aggregate size of 3-in. and no more than 7% passing a number 200 sieve. Material shall be placed in lifts no greater than 6-in. in depth and compacted to 95% of maximum density as determined per ASTM D1557.
7. Design for the mitigation of subsurface water flow and/or perched water tables shall be the responsibility of others.
8. The Engineer shall be notified in writing if any ground water, clay type soils, debris or unconsolidated materials are encountered during excavations for foundations.
9. GEOTECHNICAL REPORT - FOUNDATION ENGINEERING, INC

## CONCRETE

1. PROJECT CONCRETE MIX TYPES:
   - A. Slabs & Footings: f'c = 4,000 psi, Absolute water-cement ratio by weight = 0.45, Air Content = 6% (+/- 1.5%).
2. CONCRETE MIX COMPONENTS.
   - A. A water-reducing admixture conforming to ASTM C494, used in strict conformance with the manufacturer's instructions, shall be incorporated in all concrete mix designs.
   - B. Higher water-cement ratios than shown above may be used if substantiated in accordance with ACI 318-89, Chapter 5.
   - C. Fly-ash conforming to ASTM C618 Type F or C, may replace up to 20% of the cement content, provided that the mix strength is substantiated by test data.
   - D. Cement: ASTM C150 Type I or II.
   - E. Water: Clean & Potable.
   - F. Air entraining agent: ASTM C260. Except where noted non-air entrained.
   - G. Aggregate: 0.75-inch Maximum aggregate per ASTM C33. Unless noted otherwise.
   - H. Mix Proportioning: ACI 211.1 and 350R.
3. CONCRETE ACCESSORIES:
   - A. REINFORCING STEEL: Reinforcing steel shall conform to ASTM A615 Grade 60; #3 bars may be Grade 40.
   - B. WELDED WIRE FABRIC: ASTM A185 or A497.
   - C. JOINTING MATERIALS: In accordance with ACI 350 Section 4.5.2. All jointing materials including water-stops, expansion joints and sealants, shall be resistant to chemical attack for the design life of the facility. Sealants shall conform to ASTM C 920 and Federal Specification TT-S-00277E and PVC Water-stop shall conform to ASTM D 570, ASTM D 746, STM D 1149 and CRD-C572.
4. NON-SHRINK GROUT: All non-shrink grout noted on the plans shall be non-shrink, non-metallic grout with a minimum 28-day compressive strength of 7,000 psi.
5. CONCRETE QUALITY AND DETAILS.
   - A. GENERAL. Concrete shall be proportioned to provide an average compressive strength, fc, as prescribed in ACI 318/350 Section 5.3.2 and shall satisfy the durability criteria of ACI 318/350 Chapter 4.
   - B. CONCRETE PROPORTIONS.
     - a. Concrete mix proportioning shall be in accordance with ACI 211.1; Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete.
     - b. Concrete mix proportioning for lightweight concrete shall be in accordance with ACI 211.2; Standard Practice for Selecting Proportions for Lightweight Concrete.
   - C. CONCRETE MIX VERIFICATION: Concrete mix designs shall be verified by standard 28-day cylinder tests per ASTM C39.
   - D. EVALUATION AND ACCEPTANCE OF CONCRETE. Concrete shall be tested in accordance with the requirements of ACI 318/350 Section 5.6.
   - E. MIXING & PLACING CONCRETE. Concrete shall be prepared, mixed, placed and consolidated in accordance with ACI 318/350 Sections 5.7 through 5.10 and as follows:
     - a. ACI 304; Guide for Measuring, Mixing, Transporting, and Placing Concrete.
     - b. ACI 309; Guide for Consolidation of Concrete.
   - F. MINIMUM TIME BETWEEN ADJACENT PLACEMENTS:
     - a. Footings & Walls:
     - i. Construction Joints: Five (5) days wet cure, or Seven (7) days dry cure.
     - ii. Control Joints: Two (2) days.
     - iii. Expansion Joints: One (1) day.
     - b. Floor Slabs:
     - i. Construction Joints: Seven (7) days wet cure, or Ten (10) days dry cure.
     - ii. Control Joints: Four (4) days.
     - iii. Expansion Joints: One (1) day.
   - G. CONCRETE CURING. Concrete shall be maintained above 50-degrees F and in a moist condition for at least 7 days after placement, except when cured in accordance with ACI 318 Section 5.11.3.
     - a. Curing of concrete shall be per the recommendations given in ACI 308; Guide to Curing Concrete.
   - H. COLD WEATHER REQUIREMENTS. Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near-freezing weather. The recommended procedures listed in ACI 306; Cold Weather Concreting shall be followed.
     - a. Cold weather is defined as a period when, for more than 3 consecutive days, the following conditions exist:
     - i. The average daily air temperature is less than 40-degrees F and
     - ii. The air temperature is not greater than 50-degrees F for more than one-half of any 24-hour period.
   - I. HOT WEATHER REQUIREMENTS. During hot weather, proper attention shall be given to ingredients, production methods, handling, placing, protection, and curing to prevent excessive concrete temperatures or water evaporation that could impair required strength or serviceability of the member or structure. The recommended procedures listed in ACI 305; Hot Weather Concreting shall be followed.
     - a. Hot weather is any combination of the following conditions that tends to impair the quality of freshly mixed or hardened concrete by accelerating the rate of moisture loss and rate of cement hydration, or otherwise causing detrimental results:
     - i. High ambient temperature.
     - ii. High concrete temperature.
     - iii. Low relative humidity.
     - iv. Wind speed.
     - v. Solar radiation.

## CONCRETE – CONTINUED

6. FORMWORK.
   - A. Forms shall result in a final structure that conforms to shapes, lines, and dimensions of the members as required by the design drawings and specifications.
     - a. Design of formwork shall be in accordance with ACI 318/350 Section 6.1.
     - b. Formwork shall be in accordance with ACI 347; Guide to Formwork for Concrete.
   - B. Tolerances for finished concrete surfaces shall meet the following requirements, class of surface is per Table 3.4 of ACI 347:
     - a. Footings: Class C
     - b. Foundation walls: Class B
     - c. Above grade concrete not visible to sight: Class B
     - d. Above-grade concrete visible to sight: Class A
   - C. REMOVAL OF FORMS.
     - a. Concrete forms shall not be removed until the retained concrete has reached the following minimum percentage of the required 28 day compressive strength:
       - a.a. Footings and base slabs on grade: 50% of f'c.
       - a.b. Foundation walls and columns: 67% of f'c.
     - b. Where concrete cylinder tests are not available for strength verification the following guide may be used when permitted by the Project Engineer:
       - b.a. Footings and base slabs on grade: 12 hours.
       - b.b. Foundation walls and columns: 24 hours.
   - D. EMBEDMENTS IN CONCRETE.
     - i. Conduits, pipes, and sleeves of any material not harmful to concrete and within limitations of ACI 318/350 Section 6.3 shall be permitted to be embedded in concrete with approval of the Project Engineer, provided they are not considered to replace structurally the displaced concrete, except as provided in Section 6.3.6.
   - E. Conduits and pipes of aluminum shall not be embedded in structural concrete unless effectively coated or covered to prevent aluminum-concrete reaction or electrolytic action between aluminum and steel.
   - F. CONSTRUCTION JOINTS.
     - a. Construction joints shall only be placed where indicated on the project drawings or as approved by the Project Engineer.
     - b. Construction joints shall be constructed in accordance with ACI 318/350 Section 6.4
7. DETAILS OF REINFORCEMENT.
   - A. Placement of all reinforcing steel within concrete structures shall be in conformance with ACI 318/350 Chapter 7.
   - B. Reinforcing steel hooks, bends, ties, splices and other reinforcement details shall be in accordance with ACI 315; Details and Detailing of Concrete Reinforcement.
   - C. Spacing limits for reinforcement shall be in conformance with ACI 318/350 Section 7.6.
   - D. Concrete protection for reinforcement. Unless noted elsewhere on the drawings, all reinforcing steel shall have the following concrete cover:
     - a. For non-liquid containing concrete structures; per ACI 318 Section 7.7:
     - b. Concrete cast against earth: 3.00 inch
     - c. Concrete exposed to earth or weather;
       - c.a. No. 5 or smaller bars: 1.50-inch
       - c.b. No. 6 or larger bars: 2.00-inch
     - d. Concrete not exposed to earth or weather;
       - d.a. No. 11 or smaller bars: 0.75-inch
       - d.b. No. 14 or larger bars: 1.50-inch
     - e. Beams and columns;
       - e.a. Primary reinforcement, ties, stirrups or spirals: 1.50-inch
   - E. Concrete blocks or plastic-coated bar chairs shall be provided for support of all slab reinforcing steel, sufficient in number to prevent settlement or sagging, but in no case shall such support be continuous. Metal clips or supports shall not be placed in contact with the forms or the sub-grade.
   - F. Dowels and anchor bolts shall be wired or otherwise held in correct position prior to placing concrete. Care shall be taken to insure that dowels and anchor bolts remain plum after concrete is poured and vibrated. In no case shall dowels or anchor bolts be stabbed into freshly poured concrete!
   - G. Provide dowels in footings and at construction joints to match vertical reinforcing bar size and spacing, unless otherwise noted on the drawings.
   - H. Where drilled in anchors are to be post-installed into concrete surfaces take care to locate reinforcing steel so that it will not interfere with the drilling operations. Move bars plus or minus 1 to 2 inches in order to avoid drilling conflicts.
   - I. All bar bends, hooks, splices and other reinforcing steel details shall conform to the requirements of ACI 315.
   - J. Unless otherwise noted on the plans all bars shall be spliced with a minimum Class A lap splice; lap splices of deformed bars and deformed wire in tension zones shall be Class B splices.
   - K. At all corners and wall intersections provide bent bars to match the horizontal reinforcing steel and in accordance with the typical corner reinforcing details.
   - L. Chamfer all exposed corners and fillet entrant angles 3/4" unless otherwise noted on the drawings.
   - M. Provide #4, 4'-0" long diagonal bars at each re-entrant corner in slabs; (1) bar for slabs with single layer reinforcing and (2) bars for slabs with double layer reinforcing.
8. CONCRETE FINISHING. All concrete surfaces shall be finished in accordance with ACI 301.
   - A. Formed Concrete Surfaces. After removal of forms, give each formed surface one or more of the following finishes:
     - a. Non-liquid Retaining Concrete Structures:
       - a.a. Concrete footings and foundations not exposed to view. Provide an As-cast finish per Section 5.3.3.3a.
       - a.b. Foundation wall and other surfaces below grade and not exposed to view. Provide a Rough-form finish per Section 5.3.3.3.a.
       - a.c. Interior, exterior and top surfaces exposed to view to 6-inches below grade. Provide a Smooth-form finish per Section 5.3.3.3.b.
     - b. Special or Architectural Finishes: Refer to the Architectural Specifications for Special or Architectural finish requirements.
   - B. Unformed Concrete Surfaces. Unformed concrete surfaces including the top surface of all concrete roof and floor slabs shall be finished in accordance with ACI 301 Section 5.3.4 and ACI 302 Chapter 8.
     - a. Interior offices and other areas receiving only light foot traffic shall receive a Troweled finish per Section 5.3.4.2c.
     - b. Provide a Nonslip finish for exterior surfaces and where indicated on the plans.
     - c. Refer to the Architectural plans for finish requirements for floors to receive Architectural coverings.
   - C. Sawed contraction joints. Conform to ACI 301 Section 5.3.5.
9. CONCRETE FLOORS AND SLABS.
   - A. Concrete floors and slabs shall be constructed in accordance with ACI 302; Concrete Floor and Slab Construction. Provide the following Class Concrete floor slabs in accordance with Table 2.1 unless otherwise noted on the drawings:
     - a. Interior offices and other areas receiving only light foot traffic: Class 1 or 2 floor depending on final floor covering.
     - b. Exterior structural floor slabs subject to foot and maintenance traffic loads: Class 4 or 5 floor. Provide a Nonslip finish to all walking surfaces.
   - B. Placing, Consolidating, and Finishing. Follow the recommendations given in Chapter 8.

REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2012
DEREK A. HOWARD
EXPIRES: 06/30/2023

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
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1202 Adams Avenue
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Date: 1-12-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH):

ISSUE: 1-12-21

AGENCY & BID ISSUE

DRAWING NO.
**S1.0**
GENERAL STRUCTURAL NOTES

## LUMBER/MATERIALS/HARDWARE

1. LUMBER: Grading shall be to the Standard Grading Rules of the WWPA. Typical structural lumber shall be Number 2 Douglas-Fir/Larch or better. Members noted as wood beams, posts or columns shall be Number 1 Douglas-Fir/Larch or better. Studs for interior non-bearing walls may be stud grade lumber. Lumber to be left exposed, without other finish and lumber in contact with concrete shall be pressure treated.
2. TREATED LUMBER: Lumber, including wood sheathing, to be left exposed without other finish, located within 8" of finish grade, or in contact with concrete shall be pressure treated material. Contractor shall coordinate and verify that all steel items in contact with the treated material, including steel hangars, connectors and fasteners have a galvanized finish of sufficient thickness, or other type of protection, that is compatible with the specific treatment type selected.
3. EPOXY SET BOLTS & REBAR: Bolts and reinforcing steel bars noted on the plans as Epoxy or Construction Adhesive Set Bolts or Rebar shall be set in place utilizing the SIMPSON SET High Strength Epoxy system; size and embedment as noted on the drawings, installed per the manufacturers recommendations; or an approved equal.
4. BOLTS & LAG SCREWS FOR WOOD CONSTRUCTION: Conform to ANSI/ASME Standards B18.2.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part VIII for Bolts and Part IX for Screws.
5. WOOD SCREWS: Conform to ANSI/ASME Standards B18.6.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part XI.
6. NAILS & SPIKES: Conform to Federal Specification FF-N-105B and the National Design Specification (NDS) 1991 Edition Part XII.
7. NAILING: Where not otherwise specified on the plans, nailing shall conform to IBC Table 2304.9.1, Fastening Schedule. All nails shall be common wire nails or pneumatically driven nails with an equivalent cross-section and penetration, unless noted otherwise.
8. LUMBER HARDWARE: Wood construction connectors shall be as manufactured by Simpson Strong-Tie Company; current catalog, or an approved equal. Hardware exposed to weather or view, in unheated portions of the structure, or as indicated on the drawings or in the specifications shall be hot-dipped galvanized with galvanized fasteners.
9. ROOF SHEATHING: All roof sheathing shall be 5/8" nominal, Exterior APA rated Sheathing {32/16} installed with ply-clips.

## PRE–ENGINEERED/FABRICATED WOOD TRUSSES

1. All pre-engineered/fabricated/manufactured wood trusses indicated on the drawings shall be metal press-plate connected wood trusses designed by a Professional Engineer registered in the State of Oregon per these notes and the specifications.
   A. Design wood trusses to the following deflection limits:
      a. Roof Dead + Live Load: Span/240 or 1 in maximum
      b. Roof Live Load only: Span/360 or 1/2-in maximum
      c. Differential deflection between adjacent trusses shall not exceed 1/4"
2. Shop drawings and design calculations signed and stamped by the Design Engineer shall be submitted to the Architect/Engineer for review prior to fabrication.
3. All necessary bridging, blocking, pre-notched or beveled plates, hangers, etc. shall be detailed or specified on the shop drawings and furnished by the truss manufacturer.
4. Truss manufacturer shall verify all setbacks, dimensions, overhangs, vertical controls and dimensions prior to fabrication.
5. Alteration of the truss layout shown on the plans may require supporting structural and foundation changes; therefore, prior approval by the Architect/Engineer is required for any proposed layout change.
6. Trusses shall not be field modified without written authorization from the truss manufacturer's Engineer of Record.
7. Trusses shall be handled, erected and braced as directed by the truss manufacturer and per the requirements of the Truss Plate Institute Manual HIB-91 or current edition.

## MECHANICAL OPENINGS

1. Mechanical openings are not shown on the structural drawings; refer to mechanical plans for size and locations.
2. Openings through concrete or masonry walls greater than 6-inch square or 8-inch round shall be reinforced with a minimum of 1-#5 bar, each of four sides, extending 24" past the opening edge. In masonry walls the bars shall be placed in solid grouted cores.
3. Openings through framed walls shall be solidly blocked on all four sides with full height studs and top and bottom blocking. Provide a header member across the opening per the typical details where bearing studs are interrupted by the opening.

## WOOD SHEATHED DIAPHRAGM CONSTRUCTION REQUIREMENTS

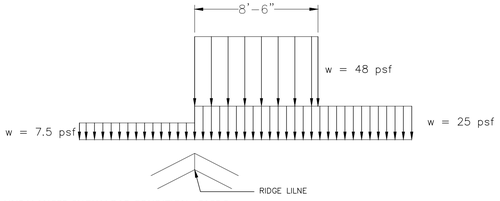
1. WOOD SHEATHED ROOF DIAPHRAGMS:
   A. Unless otherwise noted on the drawings, orient roof sheathing with face-grain perpendicular to supporting members, with joints in adjacent rows staggered 1/2 panel length.
   B. Provide 2x4 flat blocking at unsupported panel edges in areas noted as "Blocked Roof Diaphragm".
   C. Nail roof sheathing to all supporting members and blocking as follows:
      a. 10d nails @ 6-in. o.c. at all diaphragm boundaries.
      b. 10d nails @ 6-in. o.c. at all panel edges.
      c. 10d nails @ 12-in. o.c. to intermediate framing members.

## STEEL

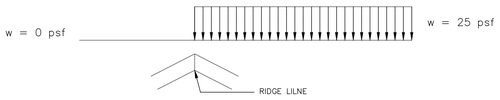
1. STRUCTURAL STEEL MATERIALS
   A. PLATES, BARS, CHANNELS & ANGLES: ASTM A36, Fy=36 ksi
   B. SQUARE, RECTANGULAR HSS, STEEL TUBING: ASTM A5000 GRADE B, Fy = 46 ksi
2. WELDING OF STRUCTURAL STEEL
   A. All welding shall conform to the requirements of the current AWS Structural Welding Code D1.1-02
   A. Weld Metal: Fexx=70 ksi, typical unless otherwise noted or required by AWS.
   B. All welders shall be tested and certified by an independent testing agency.
   C. All welders shall be currently listed with WABO. (For Washington State Projects)
   D. Qualification of welders shall be in accordance with the Specifications for Standard Qualification Procedure of the AWS.
   E. Contractor shall submit a WPS for each Type 1 Moment Connection Weld to be performed on the job. The WPS shall follow the requirements of AWS D1.1 and specify at a minimum the following: Procedure identification , base metal identification, welding process, type of welding, position of welding, filler metal specifications, filler metal classification, number of passes, welding current, welding polarity, pre-heat and inter-pass temperatures, controlled cooling requirements, welding parameters such as electrode diameter, amperage range, voltage range, travel speed range, wire feed speed range, and electrical stick-out.

## SNOW LOAD – BALANCED, DRIFTING, UNBALANCED

UNBALANCED SNOW LOAD CONDITION - CASE 1




UNBALANCED SNOW LOAD CONDITION - CASE 2




REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2017
DEREK A. HOWARD
EXPIRES: 06/30/2023

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
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ALSEA, OREGON 97324

CB Const, Inc
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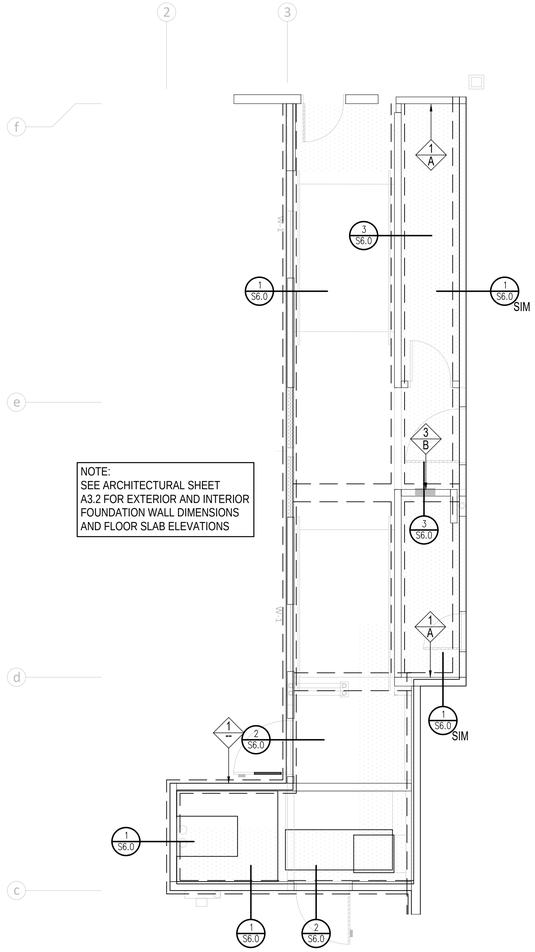
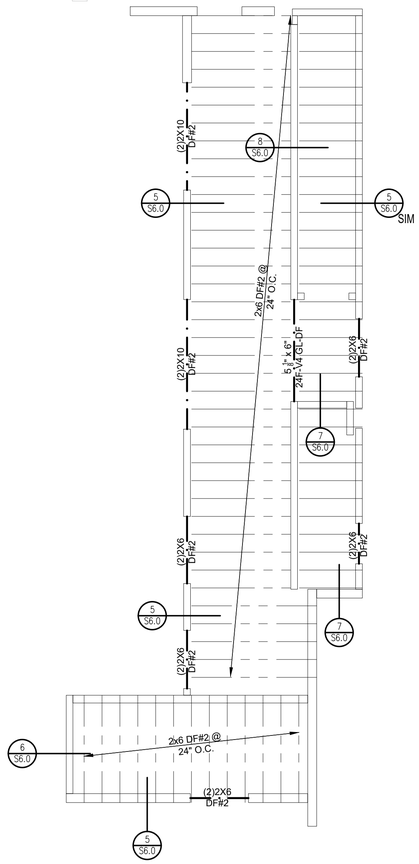
DRAWING NO.
**S1.1**
GENERAL STRUCTURAL NOTES




S2.0 FOUNDATION PLAN




S2.0 ROOF FRAMING PLAN

## Shear Wall Schedule

| TYPE | SHEATING | APA RATING | NAIL SIZE | EDGE NAIL | FIELD NAIL | BLOCKING | SHEAR WALL TYPE | SIL PLATE ANCHORAGE | FLOOR TO FLOOR ANCHORAGE FOR MULTI-STORY CONDITION | TRUSS BLK'G TO DBL TOP PLATE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7/16" CDX PLYWOOD OR OSB ONE SIDE ONLY. | 24/16 | 8d | 6" o.c. | 12" o.c. | BLOCKED | SEGMENTED | *SIMP. MAS MUD SILL ANCHORS @ 32" O.C. OR 5/8" DIA.x10" A.B. @ 32" O.C. | 16d NAILS @ 6" O.C. FROM SIL TO RIM. SIMP. LTP4 @ 24" O.C. FROM BLK'G TO DBL TOP PL | SIMP. A35 @ 24" or SIMP. LTP4's @ 24" O.C. |
| 2 | 7/16" CDX PLYWOOD OR OSB ONE SIDE ONLY. | 24/16 | 8d | 4" o.c. | 12" o.c. | BLOCKED | SEGMENTED | SIMP. MAS MUD SILL ANCHORS @ 24" O.C. OR 5/8" DIA.x10" A.B. @ 24" O.C. | 16d NAILS @ 4" O.C. FROM SIL TO RIM. SIMP. LTP4 @ 18" O.C. FROM BLK'G TO DBL TOP PL | SIMP. A35 @ 18" or SIMP. LTP4's @ 18" O.C. |
| 3 | 7/16" CDX PLYWOOD OR OSB ONE SIDE ONLY. | 24/16 | 8d | 3" o.c. | 12" o.c. | BLOCKED | SEGMENTED | SIMP. MAS MUD SILL ANCHORS @ 16" O.C. OR 5/8" DIA.x10" A.B. @ 16" O.C. | 16d NAILS @ 4" O.C. FROM SIL TO RIM. SIMP. LTP4 @ 12" O.C. FROM BLK'G TO DBL TOP PL | SIMP. A35 @ 12" or SIMP. LTP4's @ 12" O.C. |

NOTES:
1. EXTERIOR WALLS NOT INDICATED/SHADED AS SHEAR WALLS ARE TO BE SHEATHED, NAILED AND ANCHORED PER SHEAR WALL TYPE 1 ABOVE. TYPICAL.
2. SEE HOLD DOWN SCHEDULE FOR RELATED INFORMATION.
3. BLOCK ALL PANEL EDGES, TYP. UNLESS OTHERWISE NOTED.
4. DO NOT USE WALL SHEATHING LESS THAN 24" WIDE AT SHEARWALLS.
5. SIMP. TITEN HD's MAY BE SUBSTITUTED FOR CAST-IN-PLACE ANCHORS FOR RETROFIT CONDITIONS. MIN. 8" EMBED REQUIRED.

* SIMP. 5/8"ø x 8" TITEN H.D.'s MAY BE USED IN LIEU OF ANCHOR BOLTS.
** 3x SILL PLATE, 3x PANEL EDGE MEMBERS, 3x BLK'G REQUIRED

## HOLD DOWN SCHEDULE

| | Type | Required Post Size @ 2x4 Wall | Required Post Size @ 2x6 Wall | Anchor Rod Attachment | Alternate Anchor Rod Attachment | Alternate Threaded Rod Attachment | Comments |
|---|---|---|---|---|---|---|---|
| – | NO HOLD DOWN REQ'D. | | | | | | |
| A | SIMPSON HDU2 W/(6) ¼"x2½" SDS SCREWS POST | (2) 2x4 MIN. | (2) 2x6 MIN. | SIMP. SSTB20 w/12⅝" EMBED. | ⅝"ø F1554 ALL THREAD. SECURE w/SIMP. SET EPOXY & 8" EMBED. | ⅝"ø F1554 ALL THREAD w/DBL NUT, ⅜"x2½"x2½" PLATE WASHER. EMBED 20". | SEE SIMP. CATALOG FOR INSTALL REQ'MTS. |
| B | SIMPSON HDU8 W/(20) ¼"x2½" SDS SCREWS TO POST | 4x6 DF#2 | (3) 2x6 MIN. | SIMP. SSTB28 w/24⅞" EMBED. | | ⅞"ø F1554 ALL THREAD w/DBL NUT, ⅜"x2½"x2½" PLATE WASHER. EMBED 24". | SEE SIMP. CATALOG FOR INSTALL REQ'MTS. |

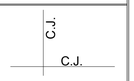
NOTE:
1. SEE SHEAR WALL SCHEDULE FOR RELATED INFORMATION.
2. DOUBLE STUDS THAT HOLD DOWNS ATTACH TO MUST BE FULL HEIGHT WALL STUDS FROM SILL PLATE TO DBL. TOP PLATE.
3. WHERE HOLD DOWN ANCHOR EMBEDMENT IS DEEPER THAN FOOTING, THICKEN FOOTING AS REQ'D TO PROVIDE 3" CLR TO BTM OF FTG AND EXTEND FTG 12" MIN. BEYOND EA. END OF ANCHOR. TYP. WHERE OCCURS




## FOUNDATION PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
2. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO CONSTRUCTION.
3. FINISHED FLOOR ELEVATION=100'-0" IS THE REFERENCE DATUM FOR THESE STRUCTURAL DRAWINGS.
4. ▭ INDICATES 2x WOOD STUD SHEAR WALL. SEE SHEAR WALL SCHEDULE FOR OTHER EXTERIOR WALL REQUIREMENTS
5. ◇ INDICATES SHEAR WALL TYPE, SEE SHEAR WALL SCHEDULE ON THIS SHEET.
   ◇ INDICATES HOLD DOWN TYPE, SEE HOLD DOWN SCHEDULE ON THIS SHEET.
6. TYPICAL HEADER SUPPORTS SHALL BE AS FOLLOWS:
   FOR ALL EXTERIOR OPENINGS < 4'-6":
   (1) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.
   (1) 2x6 DF #2 KING STUD, TYPICAL U.N.O.
   FOR ALL EXTERIOR OPENINGS > 4'-6":
   (2) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.
   (2) 2x6 DF #2 KING STUD, TYPICAL U.N.O.
   FOR ALL INTERIOR OPENINGS > 9'-0":
   (2) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.
   (1) 2x6 DF #2 KING STUD, TYPICAL U.N.O.
   FOR ALL INTERIOR OPENINGS < 9'-0":
   (1) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.
   (1) 2x6 DF #2 KING STUD, TYPICAL U.N.O.
7. ◇HD 'HD' INDICATES SHEARWALL HOLD DOWN LOCATION. SEE HOLD DOWN SCHEDULE FOR ADDN'L INFO.
8. ALL EXTERIOR AND LOAD BEARING WALL STUDS ARE 2x6 DF STUDS AT 16" O.C. SEE ARCH. FOR ADDN'L INFO.
8. ROOF SHEATHING SHALL BE 19/32" SHEATHING (5/8 NOMINAL), APA INDEX 40/20. NAIL W/ 10D NAILS @ 6" O.C. ALONG SUPPORTED PANEL EDGES AND 12" O.C. ALONG INTERMEDIATE FRAMING. INSTALL PANELS W/ FACE GRAIN PERPENDICULAR TO JOIST FRAMING AND STAGGER PANEL END JOINTS.
9. ALL HEADER GRADES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
   4X -> DF#2
   6X -> DF#1
   GL -> 24F-V4 – UNO
   GL -> 24F-V8 – BALANCED CONDITION
   1¾" VERSA-LAM -> 1.7 – 2400 DF
   3½" VERSA-LAM -> 1.7 – 2650 DF

## Control Joint Schedule

| Slab Thickness | Max Spacing | Max L:W RATIO | Plan Designation |
|---|---|---|---|
| 4" | 12'-0" | 1.5 : 1 |  |
| 5" | 15'-0" | 1.5 : 1 | |
| 6" | 15'-0" | 1.5 : 1 | |
| 7" | 15'-0" | 1.5 : 1 | |
| 8" | 15'-0" | 1.5 : 1 | |



NOTES:

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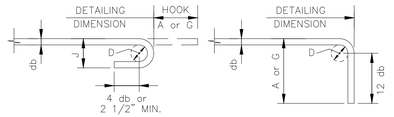
DRAWING NO.
**S2.0**
FDN/FRAMING PLAN

| TYPICAL LAP SPLICE LENGTHS IN INCHES, PER ACI 318 | | | | | |
|---|---|---|---|---|---|
| BAR SIZE | LAP CLASS | f'c=3,000 psi TYP. | f'c=4,000 psi TYP. | f'c=4,500 psi TYP. | f'c=5,000 psi TYP. |
| #4 | B | 43 | 37 | 35 | 33 |
| #5 | B | 53 | 46 | 44 | 41 |
| #6 | B | 64 | 55 | 53 | 50 |
| #7 | B | 93 | 81 | 77 | 72 |
| #8 | B | 106 | 92 | 88 | 83 |
| #9 | B | 120 | 104 | 99 | 93 |

NOTES: 1. FOR GRADE 60 REINFORCING STEEL BARS.
2. FOR TOP BARS MULTIPLY LAP LENGTH LISTED BY 1.30
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

## A Reinforcment Lap Lengths
SCALE: N.T.S.

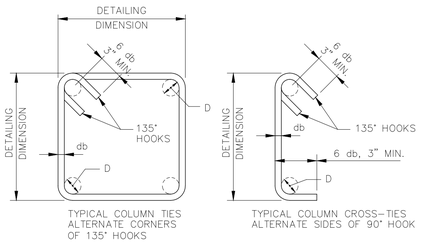



180° HOOKS 90° HOOKS

| BAR SIZE | D | 180° HOOKS A or G | 180° HOOKS J | 90° HOOKS A or G |
|---|---|---|---|---|
| #3 | 2 1/4" | 5" | 3" | 6" |
| #4 | 3" | 6" | 4" | 8" |
| #5 | 3 3/4" | 7" | 5" | 10" |
| #6 | 4 1/2" | 8" | 6" | 1'-0" |
| #7 | 5 1/4" | 10" | 7" | 1'-2" |
| #8 | 6" | 11" | 8" | 1'-4" |
| #9 | 9 1/2" | 1'-3" | 11 3/4" | 1'-7" |
| #10 | 10 3/4" | 1'-5" | 1'-1 1/4" | 1'-10" |
| #11 | 12" | 1'-7" | 1'-2 3/4" | 2'-0" |

NOTES: db = NOMINAL BAR DIAMETER.
D = FINISHED INSIDE BEND DIAMETER.
MINIMUM D = 6 db FOR #3 TO #8 BARS
MINIMUM D = 8 db FOR #9 TO #11 BARS
MINIMUM D = 10 db FOR #14 AND #18 BARS

## B Reinforcement Hook Requirements
SCALE: N.T.S.



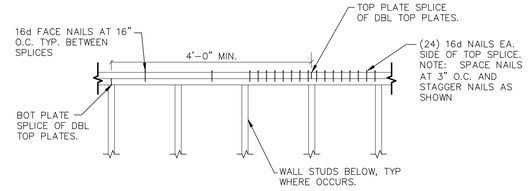

TYPICAL COLUMN TIES ALTERNATE CORNERS OF 135° HOOKS

TYPICAL COLUMN CROSS-TIES ALTERNATE SIDES OF 90° HOOK

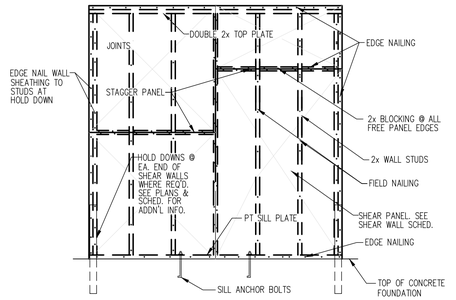
| BAR SIZE | D | 135° HOOKS A or G | 135° HOOKS H ** |
|---|---|---|---|
| #3 | 1 1/2" | 4 1/4" | 3" |
| #4 | 2" | 4 1/2" | 3" |

NOTES: db = NOMINAL BAR DIAMETER.
D = FINISHED INSIDE BEND DIAMETER.
TYPICAL MINIMUM END HOOKS, ALL GRADES OF STEEL.
TYPICAL SQUARE OR RECTANGULAR TIE FOR COLUMNS OR PILASTERS

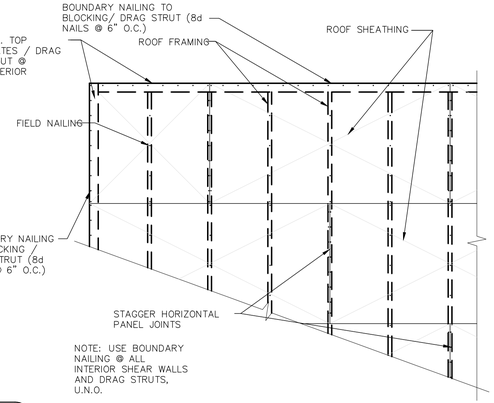
## C Reinforcement Stirrup/Tie Requirements
SCALE: N.T.S.




## D TYPICAL DBL TOP PL SPLICE
SCALE: N.T.S.




NOTES:
1) STAGGER JOINTS AS SHOWN
2) MIN. SIZE OF SHEET SHALL BE 24" X 24" UNLESS ALL EDGES ARE SUPPORTED WITH MIN 2x4 BLKG. OR FRAMING MEMBER.
3) NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
4) TOLERANCE ON NAILING SHALL BE ; 3/4" WITH THE AVERAGE NAIL SPACING OVER ANY 4 FOOT LENGTH BEING AT LEAST THAT NOTED ON THE PLAN.

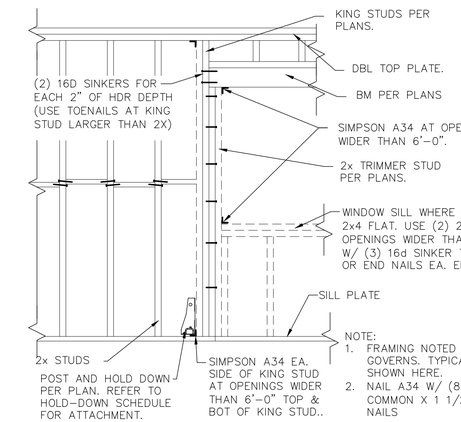



NOTES:
1. CORNER & INTERSECTION BARS TO MATCH SIZE & SPACING OF HORIZ. BARS.
2. CENTER VERTICAL BARS IN WALL UNLESS NOTED OTHERWISE.
3. REFER TO OTHER DETAILS FOR REQUIRED BAR SIZE AND SPACING.

## E Typical Concrete Wall Intersection Wall w/ One Layer Of Reinforcing
SCALE: N.T.S.

## F NOT USED
SCALE: N.T.S.

## G NOT USED
SCALE: N.T.S.

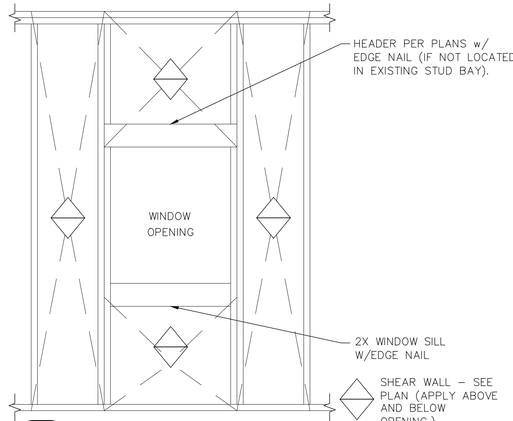



## H TYPICAL WOOD SHEATHING LAYOUT
SCALE: N.T.S.




## I TYPICAL ROOF SHEATHING
SCALE: N.T.S.

## J NOT USED
SCALE: N.T.S.




## K Perforated Shear Wall
SCALE: N.T.S.

## L TYPICAL WINDOW OPENING.
SCALE: N.T.S.

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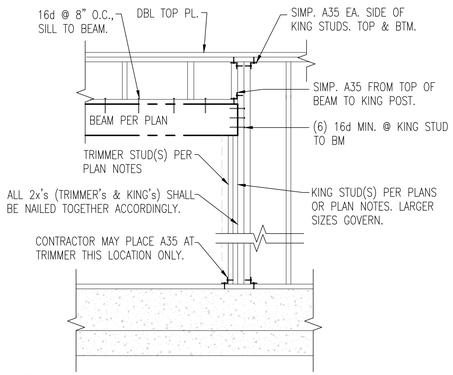
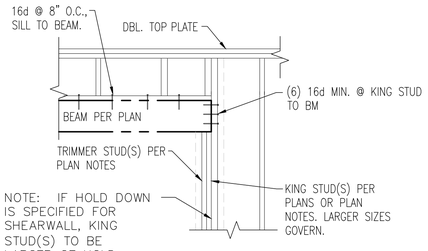
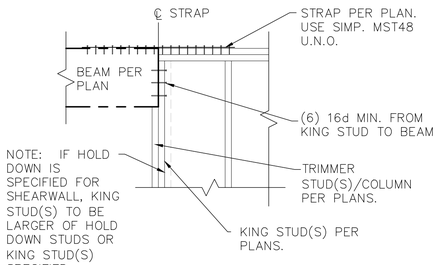
DRAWING NO.
**S5.0**
GENERAL STRUCTURALDETAILS



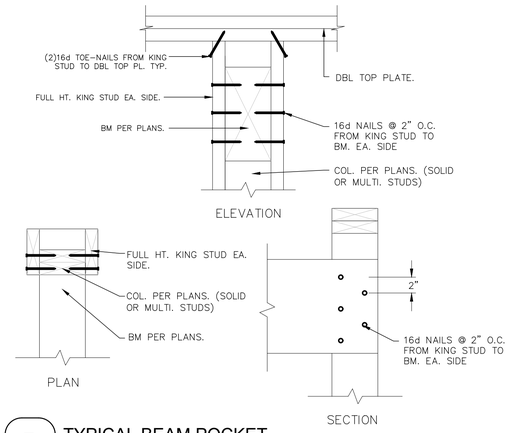

## M OPENINGS ≥ 8'-0"
SCALE: N.T.S.



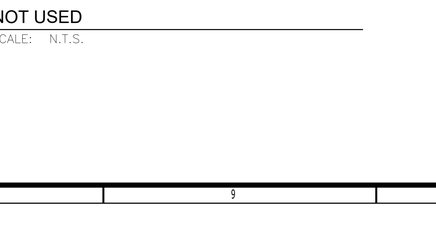

## N DROPPED HEADER
SCALE: N.T.S.




## O BEAM SUPPORT FLUSH W/ TOP PLATE
SCALE: N.T.S.



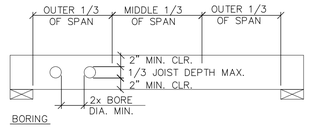

## P TYPICAL BEAM POCKET
SCALE: N.T.S.



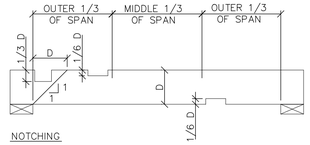

## Q TYPICAL BEAM POCKET w/DBL TP PL BREAK
SCALE: N.T.S.

## R NOT USED
SCALE: N.T.S.

SCHEDULE IS APPLICABLE TO 2x SOLID SAWN FRAMING ONLY.




BORING

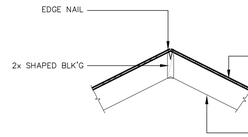



NOTCHING

| NOTCH OR BORE FRACTION OF JST. | 2x6 | 2x8 | 2x10 | 2x12 | 2x14 |
|---|---|---|---|---|---|
| 1/6 D | 7/8" | 1 1/8" | 1 1/2" | 1 7/8" | 2 1/8" |
| 1/3 D | 1 1/4" | 2 3/8" | 3" | 3 3/4" | 4 3/8" |

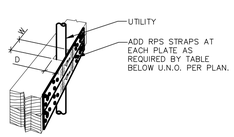
NOTE:
1. NOTCH MAX. 1/3D WITHIN D OF SUPPORT ON TOP SURFACE ONLY.
2. NOTCH MAX. 1/6D WITHIN OUTER 1/3 OF SPAN.
3. NO NOTCHES OR BORINGS MAY BE MADE WITHIN MIDDLE 1/3 OF SPAN.
4. BOTH TOP AND BOT SURFACES MAY NOT BE NOTCHED WITHIN THE SAME 1/3 OF SPAN.

## S 2x Framing Boring & Notching
SCALE: N.T.S.




## T Typical Ridge / Hip Blocking
SCALE: N.T.S.

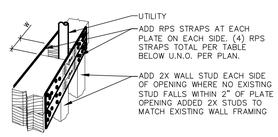
## U NOT USED
SCALE: N.T.S.




NOTE:
1) REFER TO CONDITION "C" TO THE RIGHT FOR MAXIMUM ALLOWABLE NOTCH DIMENSIONS WITHOUT ADDITIONAL REINFORCEMENT.
2) FOR 'D' AND 'W' DIMENSIONS EXCEEDING THOSE LISTED, REFER TO CONDITION 'B'.
3) PER TABLE BELOW.
4) NOTIFY STRUCTURAL ENGINEER IF "W" EXCEEDS 12"

Ⓐ CONDITION "A" – PLATE NOTCH

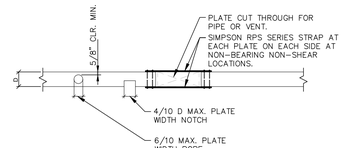
| PLATE WIDTH | D | W | PROVIDE |
|---|---|---|---|
| 2X4 | 1 3/8" to 2" MAX. | 5" MAX. | (2) RPS22 |
| 2X4 | 1 3/8" to 2" MAX. | 5" to 12" MAX. | (2) RPS22 |
| 2X6 | 2 3/8" to 3 1/4" MAX. | 5" MAX | (2) RPS22 |
| 2X6 | 2 3/8" to 3 1/4" MAX. | 5" to 12" MAX. | (2) RPS28 |




NOTE:
1) NOTIFY STRUCTURAL ENGINEER IF "W" EXCEEDS 12"

Ⓑ CONDITION "B" – PLATE BREAK

| PLATE WIDTH | W | PROVIDE |
|---|---|---|
| 2X4 | 5" MAX. | (4) RPS18 |
| 2X4 | 5" TO 12" MAX. | (4) RPS22 |
| 2X6 | 5" MAX. | (4) RPS28 |
| 2X6 | 5" TO 12" MAX. | (4) RPS28 |




NOTE:
NAIL RPS STRAP W/(8) 16d SINKER OR (8) 10d COMMON NAILS AT EACH END.

Ⓒ MAXIMUM NOTCH OR BORE w/OUT STRUCTURAL REINFOREMENT

| | | 2x4 | 2x6 | 2x8 |
|---|---|---|---|---|
| NOTCH | 4/10 D | 1 3/8" | 2 1/8" | 3" |
| BORE | 6/10 D | 2" | 3 1/4" | 4 1/4" |

## V Top Plates - Notch or Bore @ Utilities
SCALE: N.T.S.

## W NOT USED
SCALE: N.T.S.

REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2017
DEREK A. HOWARD
EXPIRES: 06/30/2023

# ALSEA SCHOOL DISTRICT
## 16.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
301 SOUTH 3rd STREET
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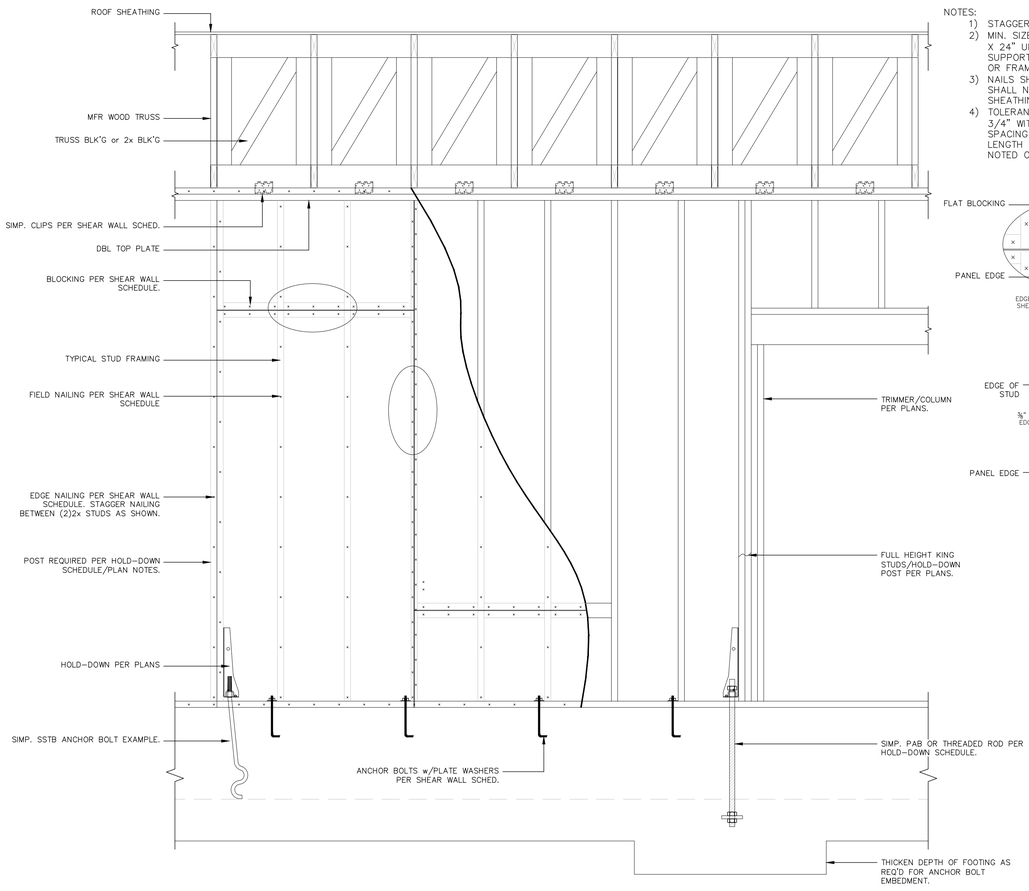
Date: 1-12-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH):

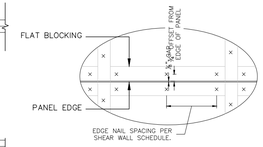
ISSUE: 1-12-21

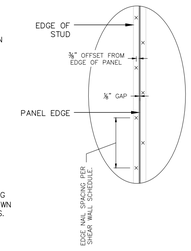
AGENCY & BID ISSUE

DRAWING NO.
**S5.1**
GENERAL STRUCTURALDETAILS



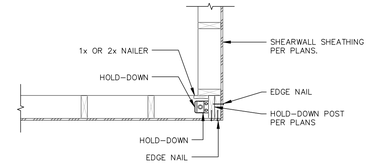

NOTES:
1) STAGGER JOINTS AS SHOWN
2) MIN. SIZE OF SHEET SHALL BE 24" X 24" UNLESS ALL EDGES ARE SUPPORTED WITH MIN 2x4 BLKG. OR FRAMING MEMBER.
3) NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
4) TOLERANCE ON NAILING SHALL BE; 3/4" WITH THE AVERAGE NAIL SPACING OVER ANY 4 FOOT LENGTH BEING AT LEAST THAT NOTED ON THE PLAN.



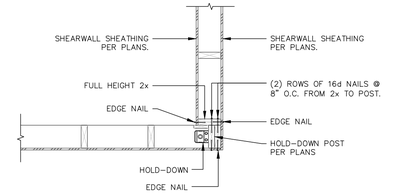




## X Typical Shear Wall Layout

SCALE: 3/4" = 1'-0"



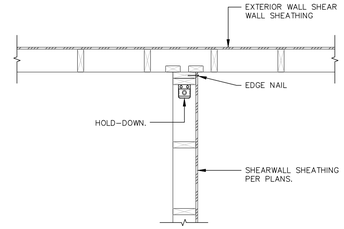

SHEATHING ONE SIDE OF WALL

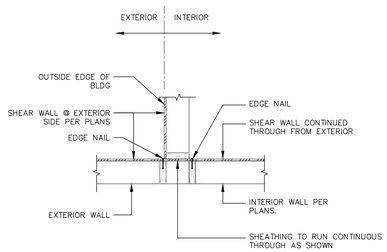



SHEATHING BOTH SIDES OF WALL

## Y Typical Exterior Shearwall/Hold-Down @ Corner

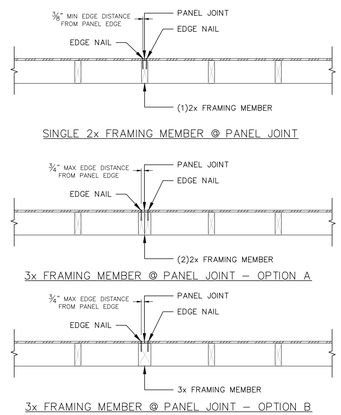
SCALE: 3/4" = 1'-0"




## AA Exterior Shear Wall Pass Thru to Interior Wall

SCALE: 3/4" = 1'-0"




SINGLE 2x FRAMING MEMBER @ PANEL JOINT




3x FRAMING MEMBER @ PANEL JOINT – OPTION A




3x FRAMING MEMBER @ PANEL JOINT – OPTION B

## AB Shearwall Panel Joint @ Stud

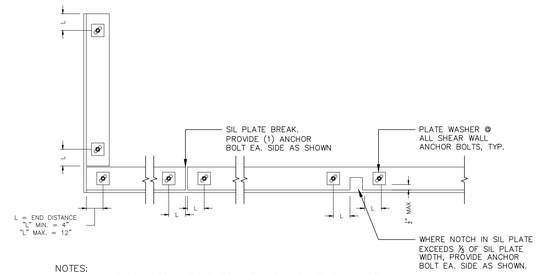
SCALE: 3/4" = 1'-0"

## AC NOT USED

SCALE: 3/4" = 1'-0"

## Z Typical Interior Wall Hold-Down @ Exterior Foundation

SCALE: 3/4" = 1'-0"




NOTES:
1. ALL FASTENERS IN CONTACT w/P.T. SILL PLATE SHALL BE GALVANZIED.
2. ALL SILL PLATES SHALL BE PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS.
3. ALL OVERSIZED BOLT HOLES (HOLES > 1/16" + A.B. Ø) SHALL BE FILLED w/ EPOXY FOR TIGHT FIT.
4. LOCATE BOLTS CLEAR OF STUDS AND POSTS.
5. PROVIDE A MINIMUM OF TWO BOLTS PER SILL PIECE.
6. WHERE SHEATHING OCCURS ON BOTH FACES, ALTERNATE LOCATIONS OF PLATE WASHERS BETWEEN FACES.

## AD Sill Plate Bolt Requirements

SCALE: 3/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2017
DEREK A. HOWARD
EXPIRES: 06/30/2023

# ALSEA SCHOOL DISTRICT
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Date: 1-12-2022
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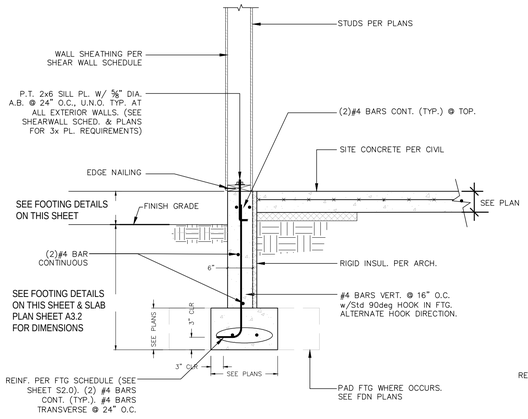
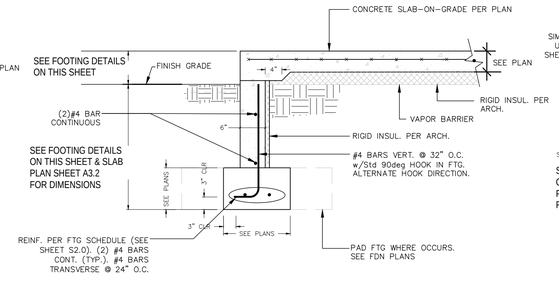
DRAWING NO.
**S5.2**
GENERAL STRUCTURALDETAILS



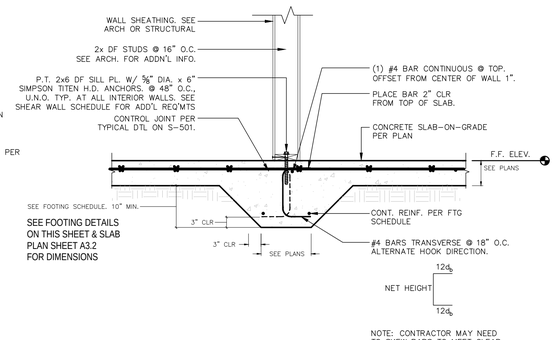

## 1 EXTERIOR WALL BEARING

SCALE: 3/4" = 1'-0"



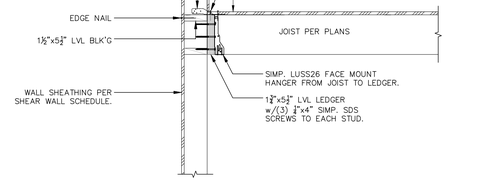

## 2 EXTERIOR FOUNDATION @ OPENING

SCALE: 3/4" = 1'-0"



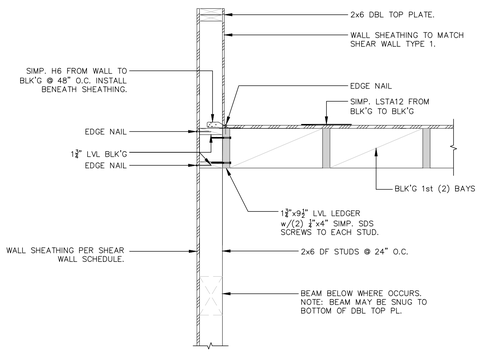

## 3 INTERIOR BEARING

SCALE: 3/4" = 1'-0"



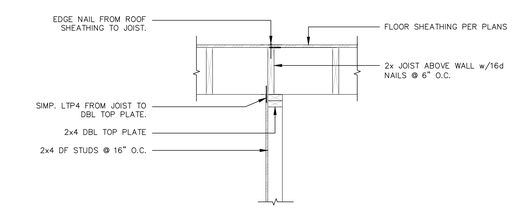

## 5 JOIST LEDGER

SCALE: 3/4" = 1'-0"



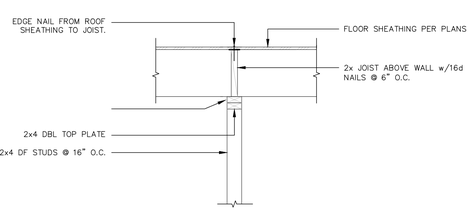

## 6 JOIST PARALLEL

SCALE: 3/4" = 1'-0"



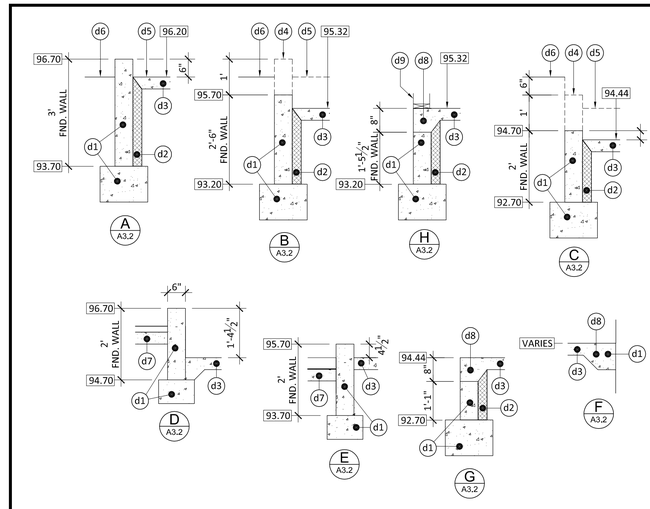

## 7 INTERIOR SHEAR WALL

SCALE: 3/4" = 1'-0"




## 8 INTERIOR BEARING WALL

SCALE: 3/4" = 1'-0"




### Foundation Detail Keyed Notes

- d1 FOOTING & STEM (FOUNDATION) WALL - SEE STRUCTURAL DRAWINGS FOR WALL THICKNESS & FOOTING SIZE IF NOT INDICATED IN THIS DETAIL.
- d2 FOUNDATION INSULATION - SEE ARCHITECTURAL WALL SECTIONS
- d3 FLOOR SLAB - SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS
- d4 LINE OF STEM (FOUNDATION) WALL BEYOND
- d5 LINE OF FINISHED FLOOR BEYOND
- d6 LINE OF EXISTING FINISHED FLOOR BEYOND - AT EXISTING SCHOOL (POINT OF BEGINNING)
- d7 RAMP SLAB - ELEVATION VARIES
- d8 TOE DOWN - FLOOR SLAB AS SHOWN
- d9 LINE OF REMOVABLE WALL - FLOOR SLAB AS SHOWN

## - Foundation Details

A3.2

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

REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2017
DEREK A. HOWARD
EXPIRES: 06/30/2023

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

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Date: 1-12-2022
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Version History: V1.0
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ISSUE: 1-12-21

AGENCY & BID ISSUE

DRAWING NO.
**S6.0**
STRUCTURAL DETAILS

## ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| A | AMPERES |
| AC | 6" ABOVE BACKSPLASH |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AF | AMP FRAME |
| AIC | AMPS INTERRUPTING CAPACITY |
| AT | AMP TRIP |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CO | CONDUIT ONLY, PROVIDE PULL-LINE |
| CT | CURRENT TRANSFORMER |
| CTL | CONTROL |
| DC | DIRECT CURRENT |
| DEMO | DEMOLITION |
| DET | DETAIL |
| E | EMPTY/EMERGENCY |
| (E) | EXISTING |
| EC | ELECTRICAL CONTRACTOR |
| EF | EXHAUST FAN |
| EL | EMERGENCY LIGHT |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| EXG | EXISTING |
| F | FUSE |
| FVNR | FULL VOLTAGE NON-REVERSING |
| FYR | FULL VOLTAGE REVERSING |
| G/GND | GROUND |
| GFI | GROUND FAULT INTERRUPTION |
| HH | HANDHOLE |
| HID | HIGH INTENSITY DISCHARGE |
| HOA | HAND-OFF-AUTO |
| HPS | HIGH PRESSURE SODIUM |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING |
| HACR | HEATING, AIR CONDITIONING, REFRIGERATION |
| IBT | INTERSYSTEM BONDING TERMINATION |
| IC | INTERRUPTING CAPACITY |
| IG | ISOLATED GROUND |
| IPCO | IDAHO POWER COMPANY |
| J/JB | JUNCTION BOX |
| KA | KILOAMP |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LTE | LONG TERM EVALUATION |
| M | MAGNETIC CONTACTOR COIL |
| MB | MAIN BREAKER |
| MC | MECHANICAL CONTRACTOR |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MLO | MAIN LUGS ONLY |
| MS | MOTOR STARTER |
| MH | MANHOLE |
| MH | METAL HALIDE |
| MTG | MOUNTING |
| N | NEUTRAL |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OH | OVERHEAD |
| OL | OVERLOAD |
| OS | OCCUPANCY SENSOR |
| OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| PC | PHOTOCELL |
| PNL | PANEL |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE |
| PWR | POWER |
| PIR | PASSIVE INFARED |
| REC | RECEPTACLE |
| (R) | RELOCATED |
| SF | SQUARE FEET |
| T | TELEPHONE |
| TB | TERMINAL BOARD |
| TBD | TO BE DETERMINED |
| TC | TIME CLOCK |
| TDR | TIME DELAY RELAY |
| TJB | TERMINAL JUNCTION BOX |
| TSP | TWISTED SHIELDED PAIR |
| TTB | TELEPHONE TERMINAL BOARD |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UNO | UNLESS NOTED OTHERWISE |
| V | VOLT |
| VA | VOLT-AMPERE |
| WP | WEATHER PROOF/NEMA 3R |
| XFMR | TRANSFORMER |
| X | EXPLOSION PROOF |
| XFR | TRANSFER |

## LIGHTING SYMBOLS
see luminaire schedule for mounting and fixture type

- 2'x4' ARCHITECTURAL LUMINAIRE
- 2'x4' PARABOLIC LUMINAIRE
- 2'x4' LUMINAIRE
- 2'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- 1'x4' LUMINAIRE
- 1'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- 6"x4' LUMINAIRE
- 6"x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- 2'x2' PARABOLIC LUMINAIRE
- 2'x2' LUMINAIRE
- SURFACE CABLE DOWN LUMINAIRE
- SURFACE PENDANT LUMINAIRE
- STEP LUMINAIRE
- RECESSED WALLWASH LUMINAIRE
- RECESSED SLOPED CEILING LUMINAIRE
- RECESSED ACCENT LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- INDIRECT LUMINAIRE (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. **DO NOT CUT OFF EXCESS AIRCRAFT CABLE**; VERIFY FINAL MOUNTING HEIGHT WITH OWNER; SEE DETAIL ON DETAIL SHEET(S)
- INDIRECT LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. **DO NOT CUT OFF EXCESS AIRCRAFT CABLE**; VERIFY FINAL MOUNTING HEIGHT WITH OWNER; SEE DETAIL ON DETAIL SHEET(S)
- 4' WALL FIXTURE
- 4' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
- 2' WALL FIXTURE
- 2' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
- 3' WALL FIXTURE
- EMERGENCY LUMINAIRE
- SURFACE/WALL MOUNTED FLOOD LIGHT
- TRACK LUMINAIRE HEAD MOUNTED AS INDICATED
- ROUND LUMINAIRE
- WALL MOUNTED LUMINAIRE
- TIMECLOCK
- PHOTOCELL
- OCCUPANCY SENSOR. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS.
- CEILING MOUNTED VACANCY SENSOR. VACANCY SENSOR TO BE INSTALLED NO LESS THAN 6FT FROM ANY HVAC DIFFUSERS. PROVIDE WITH LOW VOLTAGE MOMENTARY WALL SWITCH FOR MANUAL 'ON' CONTROL.
- POLE LIGHT WITH ONE HEAD ARM MOUNTED
- POLE LIGHT WITH TWO HEADS ARM MOUNTED
- WALLPACK LUMINAIRE
- WALLPACK LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- LIGHTING CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE, POLES, AND TYPE AS INDICATED ON DRAWING
- CEILING MOUNTED EXIT SIGN, DOUBLE FACE
- WALL MOUNTED EXIT SIGN, DOUBLE FACE
- CEILING MOUNTED EXIT SIGN, SINGLE FACE
- WALL MOUNTED EXIT SIGN, SINGLE FACE
- WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO UNIT, SINGLE FACE
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN

MOUNTING TYPE — ALL / X / XX / UNO — LAMP TYPE AND NUMBER TO DIFFERENT LUMINAIRE
E-DESIGNATES FIXTURE WITH EMERGENCY BATTERY

FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH BODINE 90 MINUTE EMERGENCY BATTERY PACK (OR EQUAL) SUITABLE FOR THAT FIXTURES LAMP TYPE AND TO PRODUCE 50% OF THE ORIGINAL OUTPUT.

## ELECTRICAL DEVICE SYMBOLS
see electrical specifications for further information

- DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SINGLE RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
- SINGLE RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
- DUPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
  C CEILING MOUNTED
- DUPLEX RECEPTACLE, HALF OF RECEPTACLE SHALL BE SWITCHED. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
- FOURPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
- FOURPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
- SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE

  D DIMMER
  K KEYED
  LV LOW VOLTAGE
  M MOMENTARY CONTACT
  OV OVERRIDE
  OC OCCUPANCY SENSOR; SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR 2-POLE, LINE VOLTAGE OCCUPANCY SENSOR, FURNISH AND INSTALL DUAL LEVEL SWITCHING. SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE.
  VS VACANCY SENSOR; SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR SENSORS MUST BE DUAL TECHNOLOGY AND A MINIMUM OF 1,000 SQUARE FEET OF COVERAGE. VACANCY SENSOR TO BE PROVIDED WITH MANUAL 'ON' OPERATION.
  P PILOT LIGHT
  TO THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.)
  2 DOUBLE POLE
  3 THREE WAY
  4 FOUR WAY
  a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED
- MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
- COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
- FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
- NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
- THERMOSTAT MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE. MECHANICAL UNIT TO BE CONTROLLED AS INDICATED.
- AQUASTAT
- EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE.
- EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. ELECTRICAL CONTRACTOR TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE
- GROUND ROD; 5/8" BY 10' MINIMUM, COPPER-CLAD
- JUNCTION BOX
- WALL MOUNTED PUSHBUTTON. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE
- 3 BUTTON DOOR CONTROLLER
- 2 BUTTON DOOR CONTROLLER
- T# / T or T# — TRANSFORMER. SIZE AND TYPE AS INDICATED
  # = TRANSFORMER DESIGNATION
- MOTOR WITH THERMAL OVERLOAD
- MOTOR
- ## or ## — PANELBOARD. SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING
  # = PANELBOARD DESIGNATION
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET, FLUSH MOUNTED
- WALL MOUNTED CIRCUIT BREAKER. TYPE AND SIZE AS INDICATED
- WM — WIREMOLD - POWER AND DATA. RACEWAY MOUNT RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED
- PM — PLUGMOLD - POWER ONLY
- # / # — MECHANICAL EQUIPMENT CALLOUT
- POWER POLE
- TWO COMPARTMENT POWER POLE

## ONE LINE SYMBOLS
see electrical specifications for further information

- ATS / #A / #P — AUTOMATIC TRANSFER SWITCH, SIZE AND POLES AS INDICATED ON DRAWING
- #A / #P — CIRCUIT BREAKER; SIZE AND POLES AS INDICATED ON DRAWING
- PANEL — PANELBOARD; NAME, SIZE, TYPE AS INDICATED ON DRAWINGS
- PAD MOUNTED TRANSFORMER BY LOCAL UTILITY
- METER
- GROUND BAR
- S — SECTOR SWITCH

## SPECIAL SYSTEMS SYMBOLS
see electrical specifications for further information

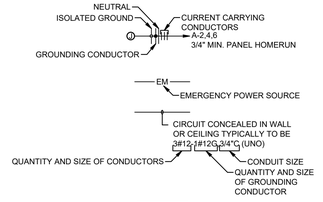
- TELEPHONE/DATA OUTLET, +48" AFF UNO, FOUR SQUARE DEEP TYPE BOX WITH SINGLE OR DOUBLE GANG MUDRING AS REQUIRED PER NUMBER OF DROPS

  B - INDICATES 4 SQUARE EXTRA DEEP JUNCTION BOX WITH MUDRING AND BLANK COVER
  C - INDICATES MOUNTED IN CEILING TILE
  M - INDICATES SOUND SYSTEM MICROPHONE INPUT
  W - INDICATES MOUNTED ABOVE ACCESSIBLE CEILING
  #T/#D - # INDICATES NUMBER OF TELEPHONE/DATA

1" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO TTB AS NOTED.
#D/#T
(TYPICAL NUMBER OF PORTS AND ASSOCIATED CONDUCTORS)
BLANK IMPLIES EMPTY RACEWAY WITH COVERPLATE

- FLOOR MOUNTED TELEPHONE/DATA OUTLET CONDUCTORS
- IC — INTERCOM
- S## — CEILING MOUNTED SPEAKER WITH BACKBOX
- S## — WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- S## — WALL MOUNTED LOUD SPEAKER
  PA - PUBLIC ADDRESS SYSTEM SPEAKER
  SS - SOUND SYSTEM SPEAKER
  WP - WEATHER PROOF
  WG - WIRE GUARD
- V — VOLUME CONTROL, MOUNT AT SWITCH HEIGHT UNO, RATING SHALL MEET OR EXCEED THE WATTAGE BEING CONTROLLED
- TV — TELEVISION OUTLET, +18" AFF UNO
- TV — CEILING MOUNTED TELEVISION OUTLET
- PA — PUBLIC ADDRESS SYSTEM, PUSH TO TALK
- CS — PUBLIC ADDRESS SYSTEM, WALL MOUNTED DIGITAL CLOCK WITH SPEAKER COMBO MOUNTED AT 8 1/2" ABOVE ROOM WHITEBOARD.
- C — PUBLIC ADDRESS SYSTEM, WALL MOUNTED DIGITAL CLOCK
- WM — WIREMOLD - POWER AND DATA. RACEWAY MOUNT DATA RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED.

## CIRCUITING SYMBOLS
see electrical specifications for further information




- CONDUIT UP
- CONDUIT DOWN
- UNDERGROUND OR CONCEALED CONDUIT
- EXISTING CONDUIT
- CONDUIT STUBBED, CAPPED, MARKED, AND PROVIDED WITH PULLSTRING
- FUTURE CONDUIT

## LINE TYPES

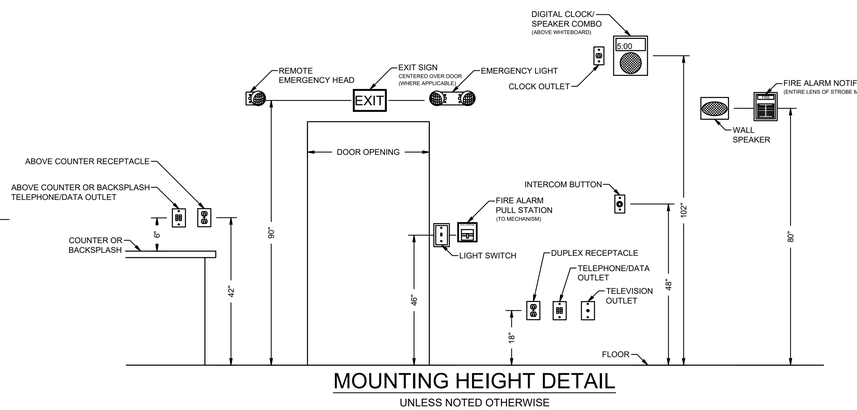
- EXISTING
- DEMOLITION
- FUTURE
- NEW

## SECURITY SYMBOLS
see electrical specifications for further information

- FIXED CAMERA
- K — KEY PAD
- M — MOTION SENSOR
- C — CONTACT
- CR — CARD READER

## ELECTRICAL DRAWING SHEET INDEX






## MOUNTING HEIGHT DETAIL
UNLESS NOTED OTHERWISE

## ELECTRICAL SYMBOLS AND SHEET INDEX
1 / E0.0
SCALE: 1" = 30'-0"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REGISTERED PROFESSIONAL ENGINEER — OREGON — JON W. VAN STONE — EXPIRATION DATE: 6/30/22

ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
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Date: 1-11-2022
Project: ALS-1821
Version History: V1.0
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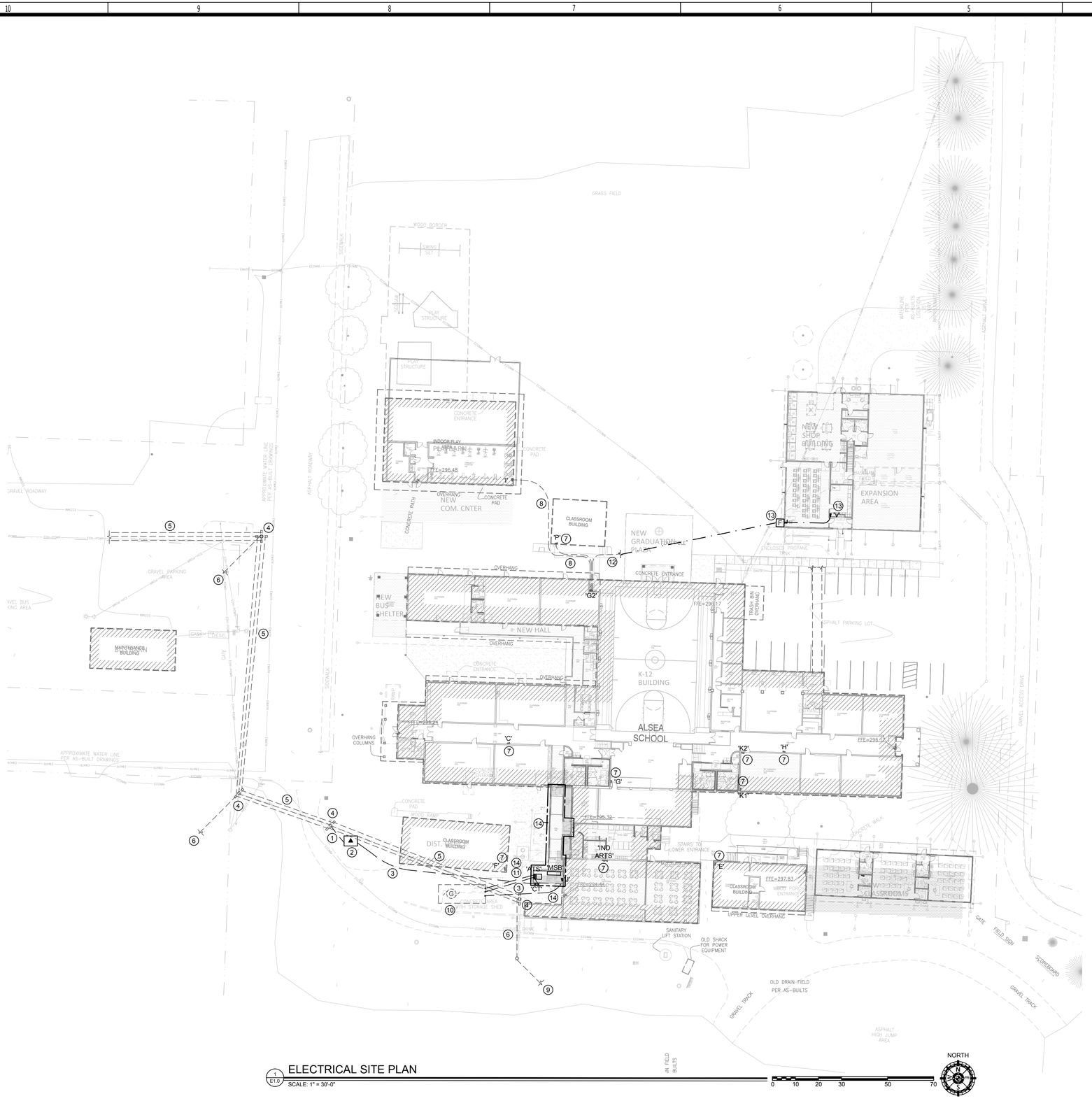
E0.0
ELECTRICAL SYMBOLS AND SHEET INDEX




1 / E1.0 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

## GENERAL NOTES:

1. ALL WORK SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY AND THE SCHOOL DISTRICT FOR DEMOLITION, PROTECTION OF EXISTING TO REMAIN, CONSTRUCTION SCHEDULING, DOWN TIME WITH OF THE SCHOOL (POWER OUTAGES).
2. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
3. COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.
4. ALL IN-GRADE JUNCTION BOXES TO BE FIBERGLASS 12"x12"x18" DEEP. WITH LID LABELED 'ELECTRICAL'. FINISH ELEVATION OF TOP OF LID TO BE FLUSH WITH FINISHED GRADE; UNLESS NOTED OTHERWISE.
5. ALL PENETRATIONS THROUGH SLAB ARE TO BE SCOTCH WRAP RIGID CONDUIT OR PVC COATED RIGID CONDUIT.
6. ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC; UNLESS NOTED OTHERWISE.
7. SEE TRENCH DETAIL ON DETAIL SHEET(S) FOR INSTALLATION OF ALL UNDERGROUND CONDUITS.
8. COORDINATE LOCATION OF POWER, CABLE, AND TELECOMMUNICATION UTILITIES WITH THE LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN OF THE UTILITY CONDUITS.

## KEYED NOTES:

1. NEW UNDERGROUND PRIMARY CONDUIT BY ELECTRICAL CONTRACTOR AND CONDUCTORS BY THE LOCAL UTILITY CO. SEE SHEETS E3.1 AND E3.3 FOR FURTHER INFORMATION. COORDINATE LOCATION WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
2. PAD MOUNTED TRANSFORMER AND PAD BY LOCAL UTILITY CO. FURNISHED AND INSTALLED BY UTILITY AS PART OF PHASE 1A.2
3. UNDERGROUND SECONDARY BY ELECTRICAL CONTRACTOR, SEE ONE-LINE DIAGRAM ON SHEET E3.3 FOR CONDUIT AND CONDUCTOR SIZING. ALL 90'S ARE TO BE LONG SWEEP TYPE.
4. EXISTING POWER POLE TO REMAIN, SHOWN FOR REFERENCE ONLY.
5. EXISTING OVERHEAD PRIMARY CONDUCTORS ARE TO REMAIN, SHOWN FOR REFERENCE ONLY.
6. EXISTING OVERHEAD SECONDARY TO REMAIN, SHOWN FOR REFERENCE ONLY,
7. SEE ONE LINE DIAGRAM ON SHEET E3.0 FOR INFORMATION REGARDING THE EXISTING AND FUTURE PANELS. THIS PHASE DOES NOT INCLUDE ANY NEW PANELS AND DOES NOT INCLUDE REMOVING ANY EXISTING PANELS.
8. NEW UNDERGROUND FEEDERS FROM PANEL G2 TO PANELS P AND I ARE INCLUDED IN PHASE 1A.2 AND ARE SHOWN FOR REFERENCE ONLY.
9. EXISTING UNDERGROUND FEEDERS (CONDUIT AND CONDUCTORS) TO EXISTING FOOTBALL FIELD BRANCH CIRCUITING TO REMAIN, LOCATE AND PROTECT.
10. GENERATOR FURNISHED AND INSTALLED AS PART OF PHASE 1A.2 AND IS SHOWN FOR REFERENCE ONLY. ALL UNDERGOUND CONDUIT TO BE INSTALLED IN THIS PHASE.
11. NEW UNDERGROUND CONDUIT AND CONDUCTORS FOR GENERATOR TO ATS FEED, GENERATOR TO ATS COMMUNICATIONS, GENERATOR BLOCK HEATER BRANCH CIRCUIT, GENERATOR BATTERY CHARGER BRANCH CIRCUIT. SEE ONELINE DIAGRAM FOR ADDITIONAL INFORMATION.
12. UNDERGOUND CONDUITS STUBBED FROM PANEL G2 OUT INTO THE FIELD ADJACENT TO THE PORTABLE FOR FUTURE CONNECTION TO PANEL V WERE INSTALLED IN PHASE 1A.2 AND ARE SHOWN FOR REFERENCE ONLY.
13. THIS EQUIPMENT IS SHOWN FOR REFERENCE ONLY, THIS EQUIPMENT IS TO BE FURNISHED AND INSTALLED IN A FUTURE PHASE.
14. AREA OF CONSTRUCTION FOR THIS PHASE OF THE PROJECT. (PHASE 1B.7). THE UNDERGROUND CONDUITS INTO AND OUT OF THE ELECTRICAL ROOM ASSOCIATED WITH THE SERVICE ENTRANCE, ATS, GENERATOR, ATS/GENERATOR CONTROLS, BLOCK HEATER, BATTERY CHARGER SHALL ALL BE INSTALLED IN THIS PROJECT PHASE, SEE THE ONELINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION.

REGISTERED PROFESSIONAL ENGINEER
JOHN W. VAN STONE
DEC. 09, 2005
EXPIRATION DATE: 6/30/22

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

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E1.0
ELECTRICAL SYMBOLS AND SHEET INDEX


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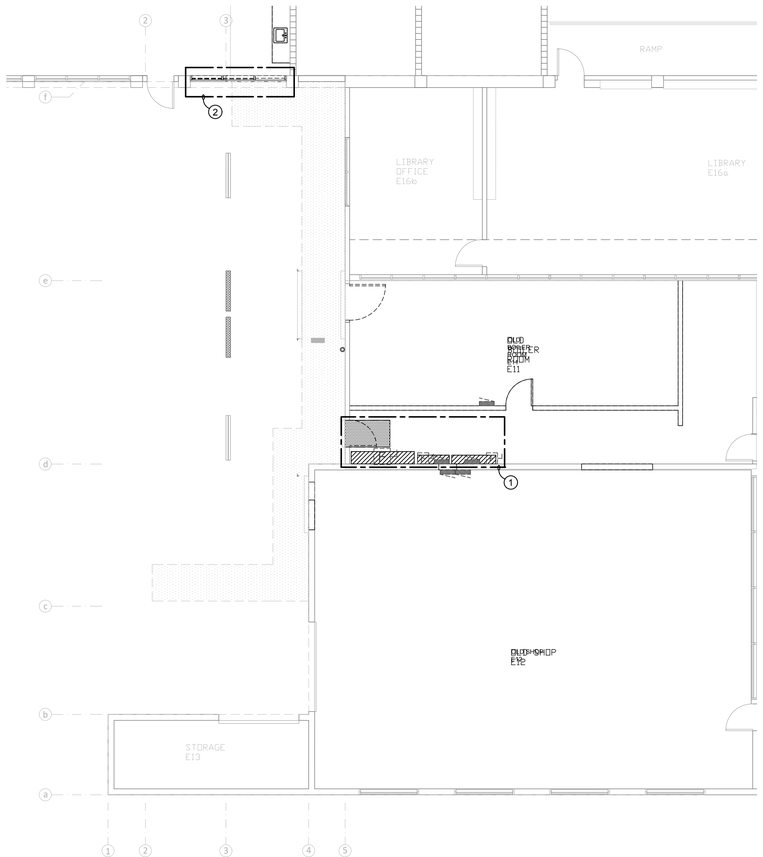


2 E2.00 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

1 E2.00 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

NORTH
0 10 20 30 50 70

## GENERAL NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND RESTORING; IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS THAT SERVE EQUIPMENT IN UNDISTURBED AREAS.
2. EXISTING CONDUIT MAY BE UTILIZED FOR NEW INSTALLATION IF IT IS CURRENTLY INSTALLED PER THE INSTALLATION REQUIREMENTS INDICATED IN THESE CONTRACT DOCUMENTS (DRAWING AND SPECIFICATIONS).
3. PROVIDE BLANK COVERS FOR ALL JUNCTION BOXES THAT CANNOT BE REMOVED DUE TO EXISTING INSTALLATION CONDITIONS.
4. CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER TO MINIMIZE ASSOCIATED DOWN TIME AND/OR POWER OUTAGES. ALL POWER OUTAGES ARE TO BE COORDINATED WITH OWNER IN TERMS OF LENGTH OF OUTAGE, AREA EFFECTED, AND ALTERNATIVE OPTIONS FOR TEMPORARY POWER PRIOR TO BEGINNING WORK IN THE AREA EFFECTED BY OUTAGE.
5. ANY EXISTING ITEM TO BE REMOVED ON EXISTING WALLS THAT ARE TO REMAIN, SHALL BE REMOVED OR ABANDONED WHERE REMOVAL IS NOT POSSIBLE WITHOUT DAMAGE TO THOSE WALLS. ANY DAMAGE TO EXISTING REMAINING WALLS AS A RESULT OF REMOVING THE ITEM SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER.
6. ELECTRICAL CONTRACTOR TO IDENTIFY NEW SPARE CIRCUITS AS A RESULT OF REMOVAL OF ELECTRICAL EQUIPMENT AND REUSE NEW SPARE CIRCUIT BREAKERS FOR NEW CIRCUITS.
7. ANY EXISTING ITEMS TO BE REMOVED AND REINSTALLED SHALL BE REMOVED WITHOUT DAMAGING THE DEVICE. ANY DAMAGE TO THE ASSOCIATED ELECTRICAL DEVICE AS A RESULT OF REMOVING AND REINSTALLATION SHALL BE REPAIRED OR REPLACED AT NO COST TO OWNER.

## KEYED NOTES:

1. THE ELECTRICAL EQUIPMENT SHOWN WITHIN THIS DASHED LINE IS TO BE DEMOLISHED IN PHASE A1.2 AND IS SHOWN FOR REFERENCE ONLY IN THIS PROJECT PHASE.
2. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THIS AREA, UNLESS OTHERWISE NOTED. INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, BUSSWAY, RECEPTACLES EXPOSED CONDUIT, SURFACE AND FLUSH MOUNTED DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL RACEWAY AND CONDUCTORS BACK TO SOURCE; SEE NOTES 5 AND 6 FOR ADDITIONAL INFORMATION. ALL DEVICES ARE TO BE REMOVED, FEEDERS ARE TO BE RE-ROUTED TO THE NEW MSB AS INDICATED ON THE ONELINE DIAGRAM, BRANCH CIRCUITING IS TO BE RE-ROUTED TO NEW PANELS AS INDICATED ON THE ONELINE DIAGRAM.


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ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION
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Date: 1-11-2022
Project: ALS-1821
Version History: V1.0
PHASES (PH):

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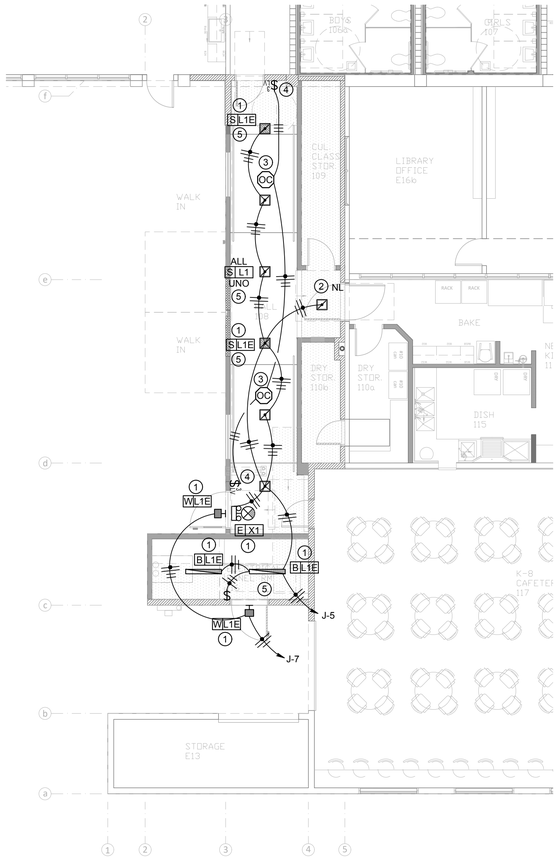
DRAWING NO.
E2.0D
ELECTRICAL DEMOLITION PLAN

## LIGHTING: GENERAL NOTES:

1. ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURE SHALL BE PROVIDED WITH AND UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.
2. ALL OCCUPANCY SENSORS THAT ARE INTERCONNECTED WITH THE HVAC CONTROL SYSTEM SHALL BE SET TO A MINIMUM OF 30 MINUTE DELAY.
3. ALL UNSWITCHED LEGS OF THE LIGHTING CIRCUIT SHALL BE ROUTED THROUGH OCCUPANCY SENSOR PRIOR TO ROUTING THROUGH SNAP SWITCHES TO PROVIDE UNSWITCHED POWER TO OCCUPANCY SENSOR FOR OCCUPANT INITIATION OF SENSOR.

## LIGHTING KEYED NOTES:

1. CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO EGRESS FIXTURE FOR CONTINUOUS POWER TO BATTERY.
2. FIXTURE TO OPERATE AS A NIGHT LIGHT, CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT.
3. LINE VOLTAGE, DUAL-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR SMALL MOTION, SENSOR SWITCH NO. CMR-PDT-9-WH OR PRE-BID APPROVED EQUAL. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 6 FT FROM ANY HVAC DIFFUSERS. SEE WIRING DETAIL ON E3.0.
4. LOW-VOLTAGE, WALL MOUNTED, MANUAL ON, 3-WAY LIGHTING CONTROL. LIGHTING CONTROL TO BE SENSOR SWITCH NO. SPODM-SA-3X-WH OR APPROVED EQUAL.
5. ALL DEVICES INSTALLED RECESSED IN WALL OR CEILING OR CONDUIT PENETRATION SHALL HAVE FIRE PUTTY PADS INSTALLED TO MAINTAIN THE FIRE RATING OF THE WALL OR CEILING.



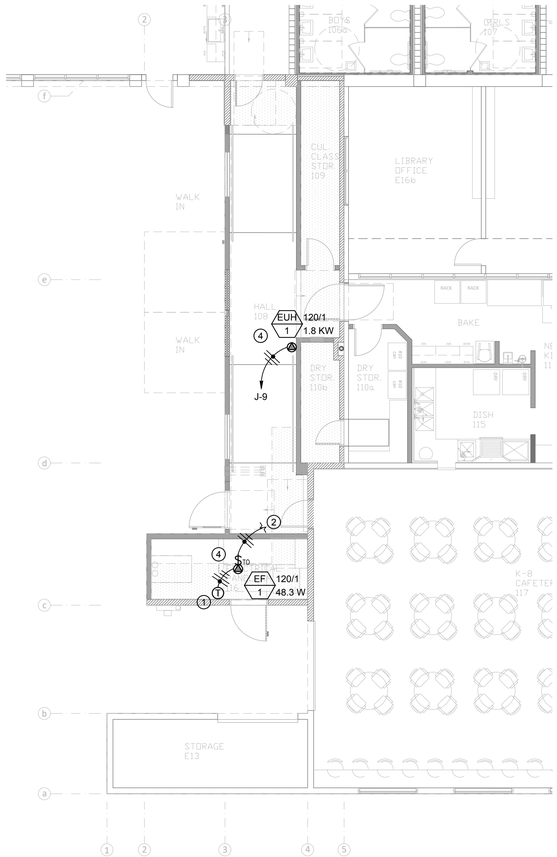

2 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

## MECHANICAL GENERAL NOTES:

1. COORDINATE ALL WORK ON HVAC SYSTEMS WITH DIVISION 15.
2. ALL BREAKERS SUPPLYING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
3. THERMAL OVERLOAD PROTECTION IS ONLY REQUIRED WHERE EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR DOES NOT INCORPORATE INTEGRAL THERMAL PROTECTION OF MOTOR. DIVISION 16 TO COORDINATE REQUIREMENTS WITH DIVISION 15 FOR ACTUAL EQUIPMENT SUPPLIED.

## MECHANICAL KEYED NOTES:

1. PRIOR TO ROUGH-IN DIVISION 16 TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF T-STAT OR SENSOR WITH DIVISION 15. DIVISION 16 TO FURNISH AND INSTALL BACKBOX, 1/2" CONDUIT, AND CONDUCTORS UP TO ABOVE ACCESSIBLE CEILING; CONTINUE CONDUCTORS TO MECHANICAL EQUIPMENT INDICATED. DIVISION 15 TO FURNISH T-STAT OR SENSOR AND MAKE FINAL CONNECTIONS. COORDINATE SIZE AND NUMBER OF CONDUCTORS WITH DIVISION 15.
2. CONNECT EXHAUST FAN TO UNSWITCHED LEG OF LIGHTING CIRCUIT IN ROOM. EXHAUST FAN TO BE CONTROLLED VIA THERMOSTAT. THERMOSTAT TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
3. FURNISH AND INSTALL LOCKABLE BREAKER AT POSITION INDICATED.
4. ALL DEVICES INSTALLED RECESSED IN WALL OR CEILING OR CONDUIT PENETRATION SHALL HAVE FIRE PUTTY PADS INSTALLED TO MAINTAIN THE FIRE RATING OF THE WALL OR CEILING.




3 MECHANICAL POWER PLAN
SCALE: 1/4" = 1'-0"

1 LIGHTING AND MECHANICAL POWER PLAN
SCALE: 1/8" = 1'-0"

NORTH
0 10 20 30 50 70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OREGON
JUL. 09, 2004
JON W. VAN STEENE
EXPIRATION DATE: 6/30/22

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

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Date: 1-11-2022
Project: ALS-1821
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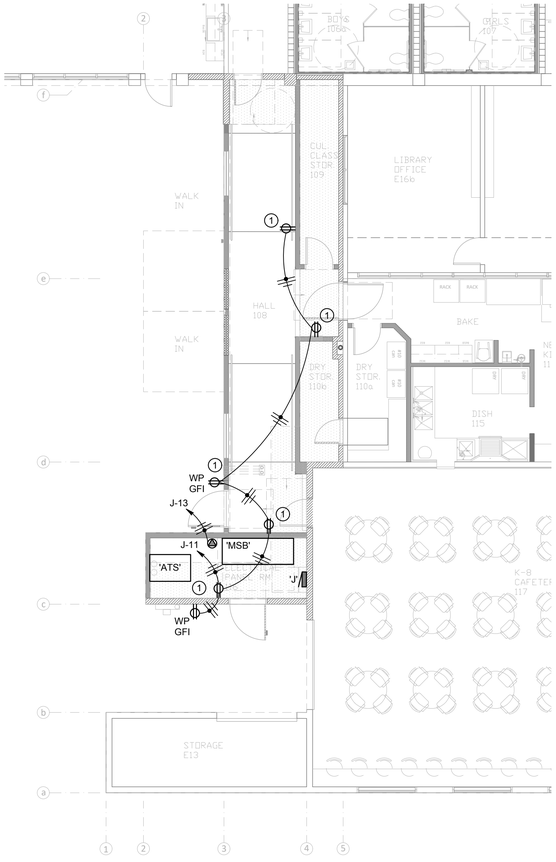
DRAWING NO.
E2.0LMP
LIGHTING AND MECHANICAL POWER PLAN

## GENERAL NOTES:

1. VERIFY ALL MOUNTING HEIGHTS OF ELECTRICAL CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

## KEYED NOTES:

1. ALL DEVICES INSTALLED RECESSED IN WALL OR CEILING OR CONDUIT PENETRATION SHALL HAVE FIRE PUTTY PADS INSTALLED TO MAINTAIN THE FIRE RATING OF THE WALL OR CEILING.



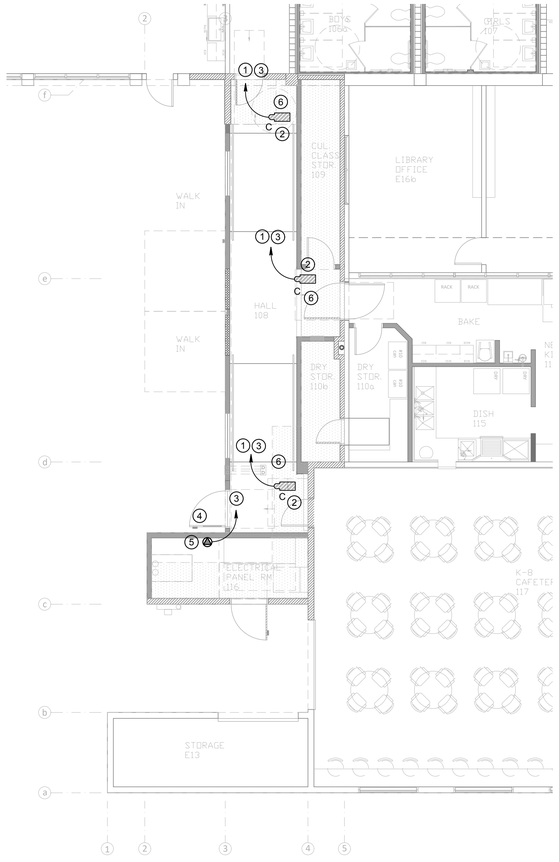

2 E2.0PS POWER PLAN
SCALE: 1/8" = 1'-0"

## GENERAL NOTES:

1. ALL INFORMATION INDICATED AS FURNISHED AND INSTALLED BY DIVISION 16 BELOW IS REQUIRED TO MEET ALL SPECIFICATION REQUIREMENTS. ADDITIONAL ITEMS MAY BE REQUIRED FOR A COMPLETE INSTALLATION AS PER SPECIFICATIONS AND DRAWINGS.

## KEYED NOTES:

1. STUB 1" CONDUIT AND CONDUCTORS TO CEILING SPACE IN MAIN BUILDING FOR ROUTING OF SECURITY CCTV CONDUCTORS, TERMINATE CONDUIT WITH INSULATED THROAT BUSHING, CONTINUE CONDUCTORS TO CCTV HEAD END EQUIPMENT. SUPPORT CONDUCTORS ABOVE CEILING WITH HOOKS INSTALLED ON 36" CENTERS. COORDINATE WITH SCHOOL DISTRICT IT PERSONNEL PRIOR TO ROUGH-IN.
2. LOCATION OF OWNER FURNISHED CAMERA, CONTRACTOR TO INSTALL JUNCTION BOX AND RACEWAY TO SECURITY HEAD AND EQUIPMENT AS INDICATED IN KEYNOTE 1 .
3. CONDUIT AND CAT6 CONDUCTOR TO SECURITY HEAD END .
4. ACCESS CONTROL CARD READER SHALL BE DOOR MOUNTED WIFI TYPE. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION.
5. SECURITY SYSTEM GATEWAY FOR WIRELESS ACCESS CONTROL. MOUNT HIGH ON WALL IN ACCESSIBLE LOCATION.
6. ALL DEVICES INSTALLED RECESSED IN WALL OR CEILING OR CONDUIT PENETRATION SHALL HAVE FIRE PUTTY PADS INSTALLED TO MAINTAIN THE FIRE RATING OF THE WALL OR CEILING.




3 E2.0PS SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

1 E2.0PS POWER AND SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

NORTH
0 10 20 30 50 70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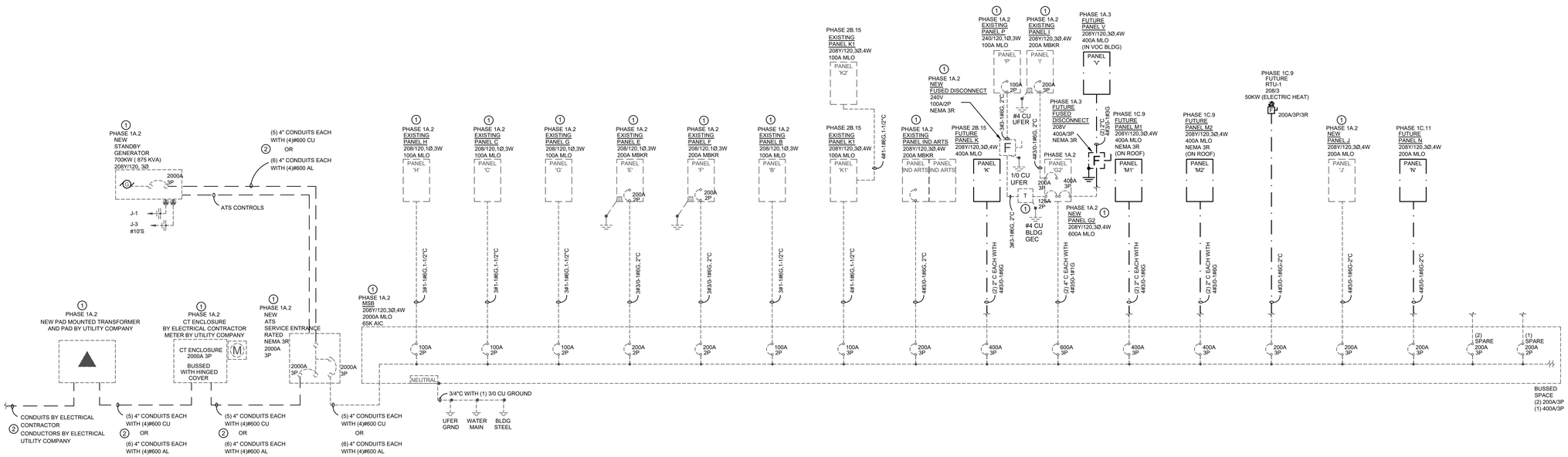
DRAWING NO.
E2.0PS
POWER AND SPECIAL SYSTEMS PLAN

## KEYED NOTES:

1 ALL ITEMS SHOWN AS EXISTING LINE TYPE AND/OR NOTED AS EXISTING WERE FURNISHED AND INSTALLED IN PHASE 1A.2. OTHER ITEMS SHOWN AS FUTURE HAVE NOTATION AS TO WHICH PHASE THEY ARE BEING DISCONNECTED AND REMOVED AND/OR FURNISHED AND INSTALLED.

2 UNDERGROUND CONDUITS SHALL BE INSTALLED IN THIS PHASE (CONSTRUCTION OF THE ELECTRICAL ROOM) TO ALLOW FOR CONNECTION OF THE ELECTRICAL DISTRIBUTION EQUIPMENT SHOWN AS BEING FURNISHED AND INSTALLED AS PART OF PHASE 1A.2. SEE SITE PLANS (E1.0 AND E1.1) FOR ADDITIONAL INFORMATION.




1 E3.0 ONE LINE DIAGRAM (EXISTING)
SCALE: NO SCALE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DRAWING NO.
E3.0
ONE LINE DIAGRAM (EXISTING)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL: | PANEL J (EXISTING) | | | PROJECT: | Alsea Schools | | | | | | | | ENCLOSURE TYPE: | NEMA 1,LOCKABLE | | | | | | | | | |
| VOLTAGE: | 208Y/120 | | | PHASE: | 3 | | WIRE: | 4 | | OCPD RATING: | 200 | AMPS | AIC RATING: | 65 K | | | | | | | | | |
| ENTRY: | TOP/BOTTOM | | | FED FROM: | PANEL G2 | | | | | BUS RATING: | 200 | AMPS | MOUNTING: | SURFACE | | | | | | | | | |
| | | | | MAINS: | LUGS | | | | | NEUTRAL RATING: | 100% | | LOCATION: | VOC BUILDING | | | | | | | | | |
| REMARKS: | IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC | | | | | | | | | | | | | | | | | | | | | | |
| PANEL TO B E INSTALLED IN PHASE 1A.2 | | | | | | | | | | | | | | | | | | | | | | | |

| LOAD TYPE | NOTES | CKT NO. | DESCRIPTION | AMPS/ POLES | | LOAD (VA) | LOAD AMPS | WIRE SIZE | PHASE (VA) A | PHASE (VA) B | PHASE (VA) C | WIRE SIZE | LOAD AMPS | LOAD (VA) | AMPS/ POLES | | DESCRIPTION | CKT NO. | NOTES | LOAD TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | | 1 | GENERATOR BLOCK HEATER | 30 | 1 | 2500 | 20.8 | 10 | 4000 | | | 12 | 12.5 | 1500 | 20 | 1 | WATER PUMP (EXISTING) | 2 | 5 | 6 |
| 6 | | 3 | GENERATOR BATTERY CHARGER | 20 | 1 | 1200 | 10.0 | 12 | | 2700 | | 12 | 12.5 | 1500 | 20 | 1 | *** | 4 | 5 | 6 |
| 1 | | 5 | LIGHTING - HALLWAY/ELECTRICAL ROOM | 20 | 1 | 240 | 2.0 | 12 | | | 1740 | 12 | 12.5 | 1500 | 20 | 1 | WATER PUMP (EXISTING) | 6 | 5 | 6 |
| 1 | | 7 | LIGHTING - EXTERIOR | 20 | 1 | 60 | 0.5 | 12 | 1560 | | | 12 | 12.5 | 1500 | 20 | 1 | *** | 8 | 5 | 6 |
| 7 | | 9 | EUH-1 | 20 | 1 | 1800 | 15.0 | 12 | | 2000 | | 12 | 1.7 | 200 | 20 | 1 | BOILER CONTROL PUMP (EXISTING) | 10 | 5 | 6 |
| 2 | | 11 | RECEPTACLES - HALLWAY/ELECTRICAL ROOM | 20 | 1 | 900 | 7.5 | 12 | | | 1100 | 12 | 1.7 | 200 | 20 | 1 | *** | 12 | 5 | 6 |
| 6 | | 13 | SECURITY ACCESS CONTROL - GATEWAY POWER | 20 | 1 | 200 | 1.7 | 12 | 1460 | | | 12 | 10.5 | 1260 | 20 | 1 | LIBRARY (N BANK) - (EXISTING) | 14 | 5 | 2 |
| | | 15 | SPARE | 20 | 1 | | 0.0 | 12 | | 1500 | | 12 | 12.5 | 1500 | 20 | 1 | LIBRARY LIGHTING - (EXISTING) | 16 | 5 | 1 |
| | | 17 | SPARE | 20 | 1 | | 0.0 | 12 | | | 1260 | 12 | 10.5 | 1260 | 20 | 1 | LIBRARY RECEPTACLES - (EXISTING) | 18 | 5 | 2 |
| | | 19 | SPARE | 20 | 1 | | 0.0 | 12 | 1500 | | | 12 | 12.5 | 1500 | 20 | 1 | LIBRARY LIGHTING - (EXISTING) | 20 | 5 | 1 |
| | | 21 | SPARE | 20 | 1 | | 0.0 | 12 | | 1500 | | 12 | 12.5 | 1500 | 20 | 1 | LIBRARY LIGHTING - (EXISTING) | 22 | 5 | 1 |
| | | 23 | SPARE | 20 | 1 | | 0.0 | 12 | | | 1200 | 12 | 10.0 | 1200 | 20 | 1 | DRESSING ROOM LIGHTING - (EXISTING) | 24 | 5 | 1 |
| | | 25 | SPARE | 20 | 1 | | 0.0 | 12 | 1500 | | | 12 | 12.5 | 1500 | 20 | 1 | LIBRARY LIGHTING - (EXISTING) | 26 | 5 | 1 |
| | | 27 | SPARE | 20 | 1 | | 0.0 | 12 | | 1500 | | 12 | 12.5 | 1500 | 20 | 1 | BOILER ROOM LIGHTING - (EXISTING) | 28 | 5 | 1 |
| | | 29 | SPARE | 20 | 1 | | 0.0 | 12 | | | 1500 | 12 | 12.5 | 1500 | 20 | 1 | LIBRARY LIGHTING - (EXISTING) | 30 | 5 | 1 |
| | | 31 | SPARE | 20 | 1 | | 0.0 | 12 | 1200 | | | 12 | 10.0 | 1200 | 20 | 1 | DRESSING ROOM LIGHTING - (EXISTING) | 32 | 5 | 1 |
| | | 33 | SPARE | 20 | 1 | | 0.0 | 12 | | 200 | | 12 | 1.7 | 200 | 20 | 1 | BOILER CONTROLS (EXISTING) | 34 | 5 | 6 |
| | | 35 | SPARE | 20 | 1 | | 0.0 | 12 | | | 1000 | 12 | 8.3 | 1000 | 20 | 1 | HALL LIGHTING (EXISTING) | 36 | 5 | 1 |
| | | 37 | SPARE | 20 | 1 | | 0.0 | 12 | 0 | | | 12 | 0.0 | | 20 | 1 | SPARE | 38 | | |
| | | 39 | SPARE | 20 | 1 | | 0.0 | 12 | | 0 | | 12 | 0.0 | | 20 | 1 | SPARE | 40 | | |
| | | 41 | SPARE | 20 | 1 | | 0.0 | 12 | | | 0 | 12 | 0.0 | | 20 | 1 | SPARE | 42 | | |
| | | | | | | PHASE LOADING | | | 11220 | 9400 | 7800 | VA | | | | | | | | |
| | | | | | | % UNBALANCE | | | 94 | 78 | 65 | AMPS | | | | | | | | |
| | | | | | | | | | 16.4% | 0.0% | 17.7% | | | | | | | | | |

**NEC LOAD SUMMARY**

| LOAD # | LOAD TYPE | CONNECTED LOAD (VA) | DEMAND FACTOR | DEMAND LOAD (VA) | |
|---|---|---|---|---|---|
| 1 | LIGHTING | 12,700 | 1.25 | 15,875 | |
| 2 | RECEPTACLE | 3,420 | * | 3,420 | |
| 3 | MOTOR | 0 | ** | 0 | |
| 4 | KITHEN EQUIP. | 0 | 0.00 | 0 | 0 UNITS |
| 5 | HVAC | 0 | 1.00 | 0 | |
| 6 | NON-CONTINOUS | 10,500 | 1.00 | 10,500 | |
| 7 | ELECTRIC HEAT | 1,800 | 1.25 | 2,250 | |
| 8 | CONTINUOUS | 0 | 1.25 | 0 | |
| | TOTAL: | 28,420 | 1.13 | 32,045 | VA |
| | SIZE OF LARGEST MOTOR: | | 0.0 | KVA | |

**PANEL ELECTRICAL LOAD DATA**

| | | |
|---|---|---|
| TOTAL CONNECTED LOAD: | 28.4 | KVA |
| | 79 | AMPS |
| TOTAL DEMAND LOAD: | 32.0 | KVA |
| | 89 | AMPS ✓ |

**PANEL OCPD RATING**

STANDARD RATED

**DEMAND FACTOR NOTES**

* FIRST 10,000VA AT 100%, REMAINING OVER 10,000VA AT 50%

** 125% OF LARGEST + 100% OF REMAINING MOTORS

**PANEL NOTES**

| | |
|---|---|
| 1. | PROVIDE CLASS 'A' GFCI TYPE BREAKER |
| 2. | BREAKER TO BE RED HANDLED |
| 3. | INSTALL LOCK ON DEVICE ON BREAKER. (SET SCREW, NON-PADLOCK TYPE) |
| 4. | ROUTE CIRCUIT TO LTG. RELAY/CONTACTOR FOR CONTROL |
| 5 | EXTEND EXISTING BRANCH CIRCUIT FROM PANEL L TO THIS PANEL (J) |

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## ELECTRICAL LOAD SUMMARY - MSB (ESTIMATED LOADS)

**Alsea Schools**

| PANEL AND/OR EQUIPMENT | VOLTAGE | ELECTRICAL LOAD (KVA) LIGHTING | REC. | MOTORS | KITCHEN | HVAC | NON-CONT. | ELEC. HEAT | CONT. | CONNECTED LOAD KVA | AMPS | DEMAND LOAD KVA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL J (EXISTING) | 208Y/120 | 12.70 | 3.42 | - | - | - | 10.50 | 1.80 | - | 28.4 | 79 | 32.0 | 89 |
| PANEL G2 (EXISTING) | 208Y/120 | - | 8.04 | - | - | 5.40 | 151.68 | - | - | 165.1 | 458 | 165.1 | 458 |
| PANEL K (NEW - FUTURE PHASE) | 208Y/120 | 8.64 | - | - | 16.50 | 91.80 | 2.50 | - | - | 119.4 | 332 | 115.8 | 321 |
| PANEL M1 (NEW - FUTURE PHASE) | 208Y/120 | - | 1.80 | - | - | 86.40 | - | - | - | 88.2 | 245 | 88.2 | 245 |
| PANEL M2 (NEW - FUTURE PHASE) | 208Y/120 | - | 1.80 | - | - | 96.00 | - | - | - | 97.8 | 271 | 97.8 | 271 |
| PANEL H (EXISTING) | 208Y/120 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.0 | 0 |
| PANEL C (EXISTING) | 208Y/120 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.0 | 0 |
| PANEL G (EXISTING) | 208Y/120 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.0 | 0 |
| PANEL E (EXISTING) | 208Y/120 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.0 | 0 |
| PANEL F (EXISTING) | 208Y/120 | - | - | - | - | - | - | - | - | 0.0 | 0 | 0.0 | 0 |
| RTU-1 (GYM) (NEW - FUTURE PHASE) | 208 | - | - | - | - | 50.00 | - | - | - | 50.0 | 139 | 50.0 | 139 |
| | | | | | | | | | | | | | |
| **TOTAL (NEW)** | | 9 | 4 | 0 | 17 | 324 | 3 | 0 | 0 | **355** | **987** | **352** | **977** |
| EXISTING DEMAND KW: | 125 | | | | | | | | | | | | |
| EXISTING DEMAND X 125%: | | | | | | | | | | 156.3 | 434 | 156.3 | 434 |
| **TOTAL (NEW + EXISTING):** | | | | | | | | | | **512** | **1420** | **508** | **1410** |

**MAIN SERVICE DISCONNECT/EQUIPMENT RATING: 2000 AMPS**

| OCPD RATING | |
|---|---|
| STANDARD RATED | ✓ |

**Fault Current at Service Equipment**

***MAXIMUM AVAILABLE FAULT CURRENT TO BE FIELD MARKED ON SERVICE EQUIPMENT PER NEC 110.24(A).

AVAILABLE FAULT CURRENT AT TERMINALS OF MAIN DISCONNECT = 42,269 amperes

MAIN SERVICE DISCONNECT AIC RATING: 65 K

**NEC DEMAND FACTORS**

| LOAD TYPE | CONNECTED LOAD (VA) | DEMAND FACTOR | DEMAND LOAD (VA) | | |
|---|---|---|---|---|---|
| LIGHTING | 8,640 | 125% | 10,800 | | |
| RECEPTACLES | 3,600 | - | 3,600 | FIRST 10,000VA AT 100% + REMAINDER OVER 10,000VA AT 50% | |
| MOTORS | 0 | - | 0 | 125% OF LARGEST MOTOR + 100% OF ALL OTHER MOTORS | |
| KITCHEN EQUIPMENT | 16,500 | 65% | 10,725 | 1-2 UNITS=100%, 3 UNITS=90%, 4 UNITS=80%, 5 UNITS=70%, >=6 UNITS=65% | >6 UNITS |
| HVAC EQUIPMENT | 324,201 | 100% | 324,201 | | |
| NON-CONTINUOUS LOADS | 2,500 | 100% | 2,500 | | |
| ELECTRIC HEAT | 0 | 125% | 0 | | |
| CONTINOUS LOADS | 0 | 125% | 0 | | |
| **TOTALS** | **355,441** | **99%** | **351,826** | VA | |

***SERIES RATED EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH N.E.C. , AND SERIES RATED COMBINATIONS SHALL BE LISTED BY UNDERWRITERS LABORATORIES***

1 E3.1 ONE LINE DIAGRAM (NEW)

SCALE: NO SCALE


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phone: 208.378.4450
fax: 208.378.4451
e2co project #: 21048


REGISTERED PROFESSIONAL ENGINEER — OREGON — JON W. VAN STONE — EXPIRATION DATE: 6/30/22

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

PROJECT SITE:
35150 7TH STREET
ALSEA, OREGON 97324


CB Construction
1202 Adams Avenue
LaGrande, OR 97850

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
Suite 102 - Boise, Idaho 83709
P: 208.991.0855
E: Scott@Straightline.biz
W: www.StraightlineArchitects.com


Date: 1-11-2022
Project: AlS-1821
Version History: V1.0
PHASES (PH):

ISSUE: 1-15-222

BID & PERMIT ISSUE

DRAWING NO.
E3.1
ONE LINE DIAGRAM (NEW)

## ALSEA SCHOOL DISTRICT HALLWAY AND ELECTRICAL ROOM (PHASE 1B.7)

### LIGHTING FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | MOUNTING | LAMPS | VOLTAGE | REMARKS |
|---|---|---|---|---|---|---|---|
| BL1E | LED STRIP, 4'FT<br>SURFACE MOUNTED AT CEILING<br>WITH LENS<br>WITH EMERGENCY BATTERY | LITHONIA NO. | ZLID-LED-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-E10WLCP-WH | CEILING SURFACE | LED<br>30W<br>4000K<br>4028 LUMENS | MVOLT | 1 |
| EX1 | EXIT LIGHT, LED, RED STENCIL<br>THERMOPLASTIC HOUSING,<br>SINGLE FACE<br>NI-CAD BATTERY<br>WITH BUG EYE EGRESS LIGHTING | LITHONIA NO. | LHQM-LED-R-ELA-T-Q-LO309-SD | ABOVE DOOR | WITH FIXTURE | 120/277 | 1 |
| SL1 | SQUARE SURFACE MOUNTED, LED,<br>ACRYLIC LENS - 14" SQUARE<br>80 CRI<br>FIRE RATED JUNCTION BOX WITH FIXTURE | JUNO NO | JSFSQ-14IN-40K-90CRI-MVOLT-WH-EBX<br><br>FIRE RATED JUNCTION BOX INTERGRAL TO FIXTURE - IC1-JB-JSFSQ | CEILING RECESSED | LED<br>20 W<br>4000k<br>1800 LUMENS | 120/277 | 1 |
| SL1E | SQUARE SURFACE MOUNTED, LED,<br>ACRYLIC LENS - 14" SQUARE<br>80 CRI - WITH EMERGENCY BATTERY<br>FIRE RATED JUNCTION BOX WITH FIXTURE | JUNO NO | JSFSQ-14IN-40K-90CRI-MVOLT-WH-EL-EBX<br><br>FIRE RATED JUNCTION BOX INTERGRAL TO FIXTURE - IC1-JB-JSFSQ | CEILING RECESSED | LED<br>20 W<br>4000k<br>1800 LUMENS | 120/277 | 1,2 |
| WL1E | WALL MOUNTED LED, EXTERIOR WALL PACK<br>WALL MOUNTED ABOVE DOOR - DOWN LIGHT ONLY<br>CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR<br>BRONZE COLORED WITH GLASS LENS<br>WITH EMERGENCY BATTERY | LIGHTWAY | WPHW-7-LED-018B40-4-Z99-CEG-21(01)-UPD-BB10 | WALL ABOVE DOOR +10' AFG | LED<br>29W<br>4000 K<br>5025 LUMENS | 120 | 1,2 |

REMARKS

1. OR PRE-BID APPROVED EQUAL
2. PROVIDE WITH BODINE EMERGENCY BATTERY PACK SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT, PROVIDE WITH SELF TEST LIGHT AND PUSHBUTTON.

NOTE TO BIDDERS:

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPORVED VIA ADDENDUM. SUBMITTED ITEMS NOT APPROVED VIA ADDENDUM WILL BE REJECTED
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPERATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.

**COMcheck Software Version COMcheckWeb**

## Exterior Lighting Compliance Certificate

**Project Information**

Energy Code: 90.1 (2019) Standard
Project Title:
Project Type: Addition
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:
301 South 3rd St
Alsea, Oregon 97324

Owner/Agent:
Alsea School Districdt
Oregon

Designer/Contractor:
Jon Van Stone
electrical engineering company
800 S Industry Way, Suite 350
Meridian, Icaho 83642
2082846439
jvanstone@e2co.com

**Allowed Exterior Lighting Power**

| A Area/Surface Category | B Quantity | C Allowed Watts / | D Tradable Wattage | E Allowed Watts (B X C) |
|---|---|---|---|---|
| man doors and overhead door (Pedestrian and vehicular enrrances and exits) | 18 ft of | 14 | Yes | 252 |
| | | | Total Tradable Watts (a) = | 252 |
| | | | Total Allowed Watts = | 252 |
| | | | Total Allowed Supplemental Watts (b) = | 400 |

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces

**Proposed Exterior Lighting Power**

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixture | D Fixture Watt. | E (C X D) |
|---|---|---|---|---|
| man doors and overhead door (Pedestrian and vehicular entrances and exits, 18 ft of door width): Tradable | | | | |
| LED: WL1E: LED WALL PACK: LED Panel 33W: | 1 | 2 | 29 | 58 |
| | | | Total Tradable Proposed Watts = | 58 |

**Exterior Lighting PASSES: Design 91% better than code**

**Exterior Lighting Compliance Statement**

*Compliance Statement:* The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JON VAN STONE — Name - Title
Signature
01/11/22 — Date

Project Title:
Data filename:
Report date: 01/12/22
Page 2 of 6

**COMcheck Software Version COMcheckWeb**

## Interior Lighting Compliance Certificate

**Project Information**

Energy Code: 90.1 (2019) Standard
Project Title:
Project Type: Addition

Construction Site:
301 South 3rd St
Alsea, Oregon 97324

Owner/Agent:
Alsea School Districdt
Oregon

Designer/Contractor:
Jon Van Stone
electrical engineering company
800 S Industry Way, Suite 350
Meridian, Icaho 83642
2082846439
jvanstone@e2co.com

**Allowed Interior Lighting Power**

| A Area Category | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts |
|---|---|---|---|
| 1-Hallway and Electrical Rm addition (School/University) | 600 | 0.72 | 432 |
| | | Total Allowed Watts = | 432 |

**Proposed Interior Lighting Power**

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixture | D Fixture Watt. | E (C X D) |
|---|---|---|---|---|
| 1-Hallway and Electrical Rm addition (School/University) | | | | |
| LED: SL1_SL1E: SURFACE LED: LED Panel 19W: | 1 | 7 | 20 | 140 |
| LED: BL1E: LED STRIP: LED Panel 33W: | 1 | 2 | 30 | 60 |
| | | | Total Proposed Watts = | 200 |

**Interior Lighting PASSES: Design 54% better than code**

**Interior Lighting Compliance Statement**

*Compliance Statement:* The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JON VAN STONE — Name - Title
Signature
01/11/22 — Date

Project Title:
Data filename:
Report date: 01/12/22
Page 1 of 6

1 E3.2 ELECTRICAL SCHEDULES
SCALE: NO SCALE


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e2co project #: 21048


REGISTERED PROFESSIONAL ENGINEER — OREGON — JON W. VAN STONE — EXPIRATION DATE: 6/30/23

ALSEA SCHOOL DISTRICT
1b.7: POWER PANEL ROOM & HALLWAY ADDITION
PROJECT SITE: 301 SOUTH 3rd STREET ALSEA, OREGON 97324

CB Const. Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

STRAIGHTLINE ARCHITECTURE
4521 South Cloverdale Road,
Suite 102 - Boise, Idaho 83709
P: 208.991.0855
E: Scott@Straightline.biz
W: www.StraightlineArchitects.com

Date: 1-11-2022
Project: AlS-1821
Version History: V1.0
PHASES (PH):

ISSUE: 1-15-222

BID & PERMIT ISSUE

DRAWING NO.
E3.2
ELECTRICAL SCHEDULES

## EXHAUST FAN SCHEDULE

EF #

| NO. | AREA SERVED | CFM | SPE | WATTAGE OR HP | CHAR | SONES | TYPE | MANUFACTURER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | RESTROOM | 145 | 0.25 | 48.3 W | 115/1Ø | 3 | CEILING FAN | 'COOK' GC | 1, 2 |

1 FURNISH WITH INTEGRAL THERMOSTAT. FAN TO OPERATE ABOVE 80°F. PROVIDE MANUAL OVER RIDE SWITCH ON WALL.

2 PROVIDE BACK DRAFT DAMPER, BIRD SCREEN, HANGING ISOLATION KIT, ROOF CAP, AND PLUG DISCONNECT.

## ELECTRIC UNIT HEATER SCHEDULE

EUH #

| NO. | CFM | kW | MBH | CHAR | AMPS | MOUNT | MANUFACTURER | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 100 | 1.8 | 6.14 | 120/1Ø | 15 | WALL - RECESSED | 'QMARK' CWH | 1 |

1 FURNISH WITH INTEGRAL THERMOSTAT.

## LOAD CALCULATION SUMMARY FORM

| ZONE | EQUIPMENT | SQFT | COOLING LOAD WITH FRESH AIR (MBH) | HEATING LOAD WITH FRESH AIR (MBH) |
|---|---|---|---|---|
| 1 | EUH-1 | 388 | - | 5.6 |

1. MECHANICAL SYSTEMS HAVE BEEN DESIGNED UNDER THE 2019 ASHRAE 90.1.
2. LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH ASHRAE 183.
3. DUCT SEALING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
4. ALL THERMOSTATS CONTROLLING HVAC SYSTEMS SHALL BE 7-DAY, SOLID STATE, PROGRAMMABLE THERMOSTATS WITH NIGHT SETBACK CAPABILITIES AT A MINIMUM.

**COMcheck Software Version COMcheckWeb**

## Mechanical Compliance Certificate

**Project Information**

Energy Code: 90.1 (2019) Standard
Project Title: Alsea Power Panel Room & Hallway Addition
Location: Corvallis, Oregon
Climate Zone: 4c
Project Type: New Construction

Construction Site:
301 S. 3rd st
Alsea, Oregon 97324

Owner/Agent:

Designer/Contractor:
Tyson McFall
Value Engineering
119 E Calderwood Dr
Meridian, Idaho 83642

**Mechanical Systems List**

**Quantity System Type & Description**

1 HVAC System (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 6 kBtu/h
No minimum efficiency requirement applies
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 100 CFM, 0.3 motor nameplate hp, 80.00 fan energy index , far exception: Single fan < 1 HP or < 0.89 kW

**Mechanical Compliance Statement**

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tyson McFall - Mechanical Engineer — Name - Title
Signature
1-13-22 — Date

Project Title: Alsea Power Panel Room & Hallway Addition
Data filename:
Report date: 11/17/21
Page 1 of 9

## ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|---|---|
| °F | DEGREES FAHRENHEIT |
| AC | AIR CONDITIONING |
| ACH | AIR CHANGES PER HOUR |
| ACT | ACOUSTICAL CEILING TILE |
| AL | ACOUSTIC LINING |
| ALT | ALTERNATIVE |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| BHP | BRAKE HORSEPOWER |
| BMS | BUILDING MANAGEMENT SYSTEM |
| BTU | BRITISH THERMAL UNITS |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CHAR | CHARACTERISTICS |
| COP | COEFFICIENT OF PERFORMANCE |
| CV | CONSTANT VOLUME |
| DB | DRY BULB |
| DBA | DECIBEL |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EDB | ENTERING DRY BULB |
| EER | ENERGY EFFICIENCY RATIO |
| ESP | EXTERNAL STATIC PRESSURE (INCHES W.G.) |
| EWB | ENTERING WET BULB |
| EWT | ENTERING WATER TEMPERATURE |
| (E) | EXISTING |
| FLA | FULL LOAD AMPS |
| FT | FEET |
| GPM | GALLONS PER MINUTE |
| HP | HORSEPOWER |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| HSPF | HEATING SEASONAL PERFORMANCE FACTOR |
| IN | INCH |
| KW | KILOWATTS |
| LB | POUNDS |
| LAT | LEAVING AIR TEMPERATURE |
| LWB | LEAVING WET BULB |
| LWT | LEAVING WATER TEMPERATURE |
| MAX | MAXIMUM |
| MBH | BTUH'S IN THOUSANDS |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MOD | MOTOR OPERATED DAMPER; MODULATING |
| NC | NOISE CRITERIA |
| NG | NATURAL GAS |
| NO. | NUMBER |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| PG | PROPYLENE GLYCOL |
| POC | POINT OF CONNECTION |
| PRV | PRESSURE REDUCING VALVE |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| RA | RETURN AIR |
| RAT | RETURN AIR TEMPERATURE |
| RCP | REFLECTED CEILING PLAN |
| RPM | REVOLUTIONS PER MINUTE |
| SA | SUPPLY AIR |
| SAT | SUPPLY AIR TEMPERATURE |
| SD | SMOKE DAMPER |
| SEER | SEASONAL ENERGY EFFICIENCY RATING |
| SF | SQUARE FOOTAGE |
| F/SD | FIRE/SMOKE DAMPER |
| SPE | STATIC PRESSURE EXTERNAL (INCHES W.G.) |
| SP | STATIC PRESSURE (INCHES W.G.) |
| SQFT | SQUARE FEET |
| S/T | SENSIBLE TO TOTAL COOLING RATIO |
| TEMP | TEMPERATURE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| VTR | VENT THROUGH ROOF |
| VS | VERSUS |
| WB | WET BULB |
| WC | WATER COLUMN |
| W.G. | WATER GAUGE |

## MECHANICAL LEGEND

- SUPPLY DUCT RISE/DROP
- SIDEWALL SUPPLY GRILLE
- RETURN RISE/DROP
- SIDEWALL RETURN GRILLE
- EXHAUST RISE/DROP
- XxX Ø — SQUARE TO ROUND DUCT TRANSITION
- EXHAUST GRILLE
- BACKDRAFT DAMPER
- DOUBLE WALL TURNING VANES
- FLEX DUCT
- HIDDEN LINE
- 1,2,3, AND 4 WAY DIFFUSERS, RESPECTIVELY
- VOLUME DAMPER
- SPIN IN FITTING
- DEMOLISHED DUCT CAP
- CEILING EXHAUST FAN
- CABINET (INLINE) EXHAUST FAN
- T EQUIP # — THERMOSTAT
- RETURN GRILLE
- #-HR — # HOUR RATED FIRE DAMPER
- BALL VALVE
- GAS PRESSURE REGULATOR
- POINT OF CONNECTION
- POINT OF DEMOLITION

## MECHANICAL SHEET INDEX



## GENERAL PROJECT NOTES

1. CONTRACTOR TO VERIFY EQUIPMENT LOCATIONS, DIMENSIONS, AND COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. ALL WORK IS TO BE IN COMPLIANCE WITH CURRENT CODES AS ADOPTED AND AMENDED BY THE LOCAL JURISDICTION. PROVIDE ALL LABOR AND MATERIAL AS NECESSARY TO MEET THE CURRENT ADOPTED CODES.
4. RECORD DRAWINGS OF THE INSTALLATION ARE REQUIRED TO BE PROVIDED BY THE CONTRACTOR WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION. REDLINES OF AS-BUILT PLANS AND SPECIFICATIONS ARE ACCEPTABLE.
5. PROVIDE OPERATION AND MAINTENANCE MANUALS WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION OF ALL EQUIPMENT INSTALLED.
6. INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SEISMICALLY BRACED PER CODE, MANUFACTURER RECOMMENDATIONS, OR STANDARD CONSTRUCTION PRACTICES, WHICHEVER IS MORE STRINGENT.
7. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
8. INSTALL ALL WATER LINES ON EXTERIOR WALLS, INCLUDING LINES IN ATTIC OR ROOF, ON WARM SIDE (INSIDE) OF INSULATION.

REGISTERED PROFESSIONAL ENGINEER
1-13-22
91434PE
OREGON
JULY 28, 2005
TYSON J. MCFALL
EXPIRES: 12-31-2022

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT 7J

STRAIGHTLINE ARCHITECTURE
*4521 South Cloverdale Road,*
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Date: 11-17-2021
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Version History: V1.0
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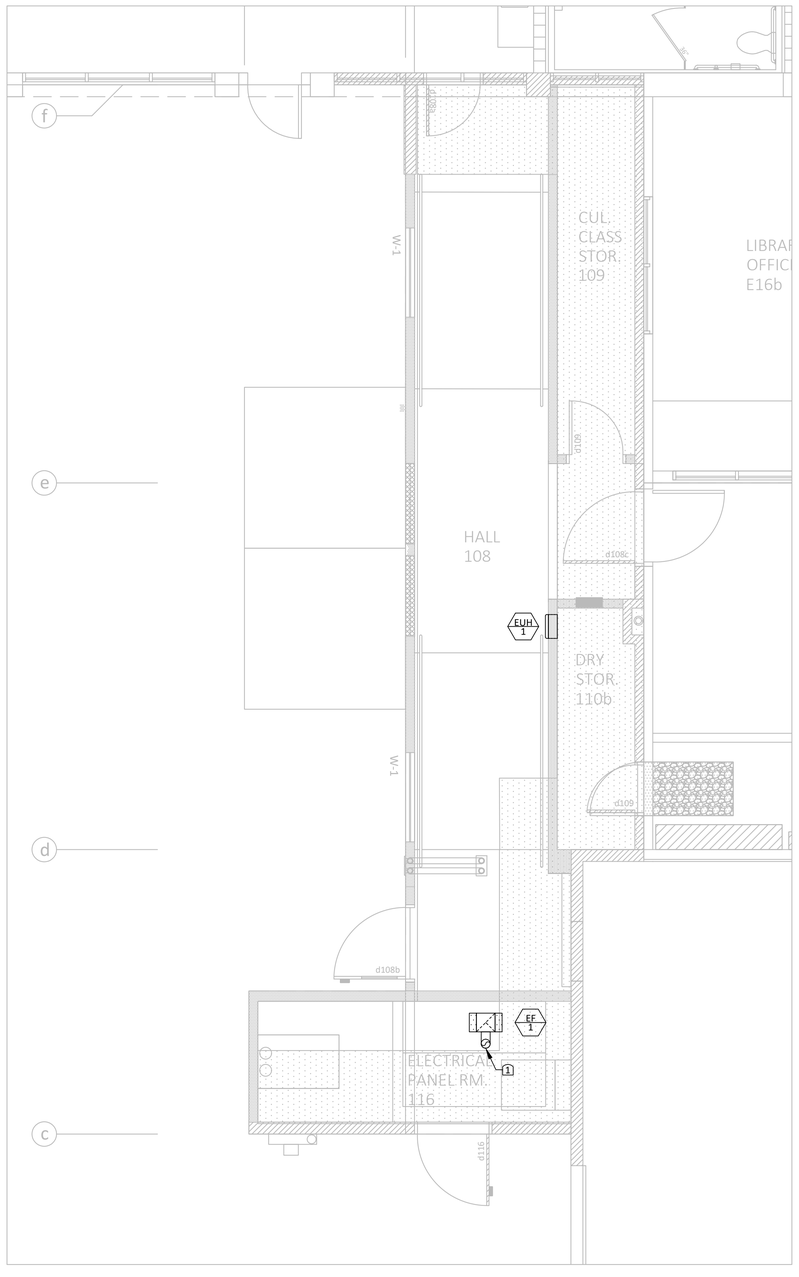
ISSUE: 11-17-21

DESIGN DEVELOPMENT

DRAWING NO.
M0.0
HVAC COVER SHEET




1 M1.1 HVAC PLAN

SCALE: 1/4"=1'

0' 2' 4' 8'

## GENERAL NOTES

1. EXISTING DUCT, PIPE, AND EQUIPMENT SHOWN LIGHT. NEW WORK SHOWN DARK.
2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. COORDINATE ALL WORK WITH OTHER TRADES.
4. DUCT SIZES SHOWN ARE INTERIOR DIMENSIONS AND ARE MEASURED IN INCHES UNLESS OTHERWISE NOTED.
5. LINE ALL DUCTWORK WITHIN 15' OF A SUPPLY FAN WITH 1" ACOUSTICAL LINING.
6. COORDINATE EXACT LOCATIONS OF DUCT, DIFFUSERS, AND GRILLES WITH REFLECTED CEILING, LIGHTING, AND FIRE PROTECTION LAYOUTS.
7. COORDINATE DUCT RUNS AND ROOFTOP PENETRATIONS WITH STRUCTURAL AND ROOFING CONTRACTOR.
8. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM.
9. ALL DUCTWORK TO BE CONSTRUCTED PER THE LATEST EDITION OF SMACNA.
10. FLEX DUCT RUNOUTS ARE LIMITED TO 5'-0" MAXIMUM.
11. INSTALL ALL MECHANICAL EQUIPMENT WITH REQUIRED CLEARANCES AND ACCESS.
12. DUCT MAINS AND EQUIPMENT LOCATED IN THE JOIST ARE TO BE COORDINATED WITH STRUCTURAL. COORDINATE FOR REMOVING OF BRACING AS REQUIRED.
13. ALL SQUARE TO ROUND WORK CONNECTIONS SHALL HAVE BELL MOUTHS WITH STANDARD PRACTICE RADIUSES.
14. ALL DUCTWORK BEHIND RETURN GRILLES SHALL BE PAINTED FLAT BLACK.
15. PROVIDE FLUSH CUP REMOTE OPERATORS ON ALL DAMPERS LOCATED ABOVE INACCESSIBLE CEILING.

## KEYNOTES

1. ROUTE 8Ø EA TO ROOF AND TERMINATE WITH MANUFACTURER ROOF CAP.

REGISTERED PROFESSIONAL ENGINEER
11-13-22
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DESIGN DEVELOPMENT

DRAWING NO.
M1.1
HVAC PLAN

## GENERAL

SCOPE OF WORK

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED LABOR, EQUIPMENT, AND MATERIALS AS SHOWN OR INDICATED IN THESE DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ANY REQUIRED SUPPORTING MATERIALS IN ORDER TO PROVIDE A FULLY FUNCTIONING SYSTEM AS PER THE DESIGN INTENT OF THESE DRAWINGS.
2. PROPER AND REASONABLE EFFORT TO ENSURE COMPLETE CONSTRUCTIONS DOCUMENTS HAS BEEN PROVIDED ON THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY DRAWINGS AND LOOK FOR ANY INACCURACIES BEFORE BIDDING ON PROJECT. IF ANY INACCURACIES ARE NOTICED, PLEASE REPORT THEM TO THE ENGINEER AS SOON AS POSSIBLE. DO NOT BID OR PERFORM ANY WORK BEFORE NOTIFYING ENGINEER OF THESE DISCREPANCIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FEES, PERMITS, AND INSPECTIONS REQUIRED TO COMPLETE THE WORK INTENDED IN THESE DOCUMENTS.
4. COORDINATE ALL ROOF AND WALL PENETRATIONS WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR TO ENSURE ALL PENETRATIONS ARE PROPERLY SEALED AND SUPPORTED.
5. PROVIDE ALL NECESSARY WORK INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL TO COMPLETE THE WORK SHOWN IN THESE DRAWINGS UNLESS THAT WORK IS SPECIFICALLY CALLED OUT UNDER ANOTHER DIVISION.
6. COORDINATE ALL WORK WITH ALL OTHER DIVISIONS IN ORDER TO ENSURE WORK IS FULLY COMPLETED. ALSO COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY NECESSARY SEISMIC RESTRAINTS PER LISTED CODE, MANUFACTURER, AND STANDARD RECOMMENDATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY AND ALL DAMAGE THAT OCCURS AS A RESULT OF THE WORK ON THIS PROJECT. WORK MUST BE REPAIRED TO A CONDITION THAT IS ACCEPTED BY OWNER.
9. CONTRACTOR SHALL ONLY EMPLOYEE COMPETENT, QUALITY TRADESMEN IN THE TRADE THEY ARE SKILLED IN FOR THE WORK THEY ARE PROVIDING.
10. CONTRACTOR SHALL PROVIDE AND INSTALL NEW MATERIALS AND EQUIPMENT UNLESS THOSE MATERIALS OR EQUIPMENT ARE SPECIFICALLY STATED TO BE REUSED.
11. ANY MATERIALS OR TRIM THAT IS REQUIRED IN ORDER TO MAKE A SYSTEM OPERATE PROPERLY SHALL BE PROVIDED AND INSTALLED EVEN IF THOSE MATERIALS ARE NOT SHOWN IN THESE DRAWINGS.
12. IF ANY TESTING IS REQUIRED FOR THIS WORK, CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY REQUIRED MATERIAL, EQUIPMENT, OR LABOR.
13. ARCHITECT, ENGINEER, OWNER, OR HIS/HER REPRESENTATIVE MAY INSPECT THE WORK AT ANY TIME. IF WORK HAS BEEN COVERED, IT SHALL BE UNCOVERED FOR INSPECTION.
14. GET APPROVAL IN WRITING FROM OWNER, ARCHITECT, AND ENGINEER BEFORE PERFORMING ANY ADDITIONAL WORK YOU EXPECT TO BE COMPENSATED FOR.

EQUIPMENT AND MATERIAL HANDLING

1. ENSURE EQUIPMENT AND MATERIAL ORDERS ARE DELIVERED IN A TIMELY MANNER IN ORDER TO ENSURE PROJECT SCHEDULE IS CONFORMED TO.
2. CONTRACTOR IS RESPONSIBLE TO ENSURE EQUIPMENT AND MATERIAL IS NOT DAMAGED WHEN DELIVERED. ANY DAMAGED ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
3. COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER IN ORDER TO LOCATE A SAFE AND CLEAN SPACE IN ORDER TO STORE MATERIALS, EQUIPMENT, AND TOOLS IN AN ORGANIZED MANNER.
4. COORDINATE WORK AREAS WITH GENERAL CONTRACTOR TO ENSURE WORKPLACE SAFETY AND CONTRACTOR COORDINATION.
5. DAMAGED OR LOST EQUIPMENT OR MATERIALS SHALL BE REPLACED AT NO COST TO THE OWNER.
6. CONTRACTOR IS RESPONSIBLE TO PROVIDE A ONE YEAR WARRANTY FOR ALL WORK COMPLETED ON THIS PROJECT. WARRANTY COVERAGE SHALL INCLUDE EQUIPMENT, CRAFTSMANSHIP, AND ALL OTHER MATERIALS.

STANDARDS AND CODES

1. ALL MATERIALS AND WORK COMPLETED BY CONTRACTOR SHALL BE PERFORMED PER ALL CODE, MANUFACTURER, AND OWNER REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
2. CONTRACTOR SHALL FOLLOW THE MOST RECENTLY ADOPTED EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
   - 2.1. INTERNATIONAL BUILDING CODE
   - 2.2. INTERNATIONAL FIRE CODE
   - 2.3. NATIONAL FIRE PROTECTION ASSOCIATION
   - 2.4. INTERNATIONAL FUEL GAS CODE
   - 2.5. INTERNATIONAL ENERGY CONSERVATION CODE
   - 2.6. INTERNATIONAL MECHANICAL CODE
   - 2.7. IDAHO PLUMBING CODE
   - 2.8. AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
   - 2.9. SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
   - 2.10. ALL OTHER APPLICABLE LAWS AND REGULATIONS
3. THESE DRAWINGS DO NOT INTENTIONALLY, OR UNINTENTIONALLY PERMIT INSTALLATIONS NOT CONFORMING TO ANY OF THESE STANDARDS OR CODES. CONTRACTOR SHALL ENSURE INSTALLATIONS MEET OR EXCEED THESE REQUIREMENTS.

EQUIPMENT SUBMITTALS

1. PROVIDE EQUIPMENT SUBMITTALS FOR ALL EQUIPMENT NECESSARY FOR THIS PROJECT. THIS INCLUDES MECHANICAL EQUIPMENT, DUCTWORK, ACCESSORIES, PIPING, PLUMBING FIXTURES, VALVES, TRIM, ETC. SUBMIT EVERYTHING REQUIRED FOR THIS PROJECT IN ONE PACKAGE NEATLY ORGANIZED AND LABELED FOR REVIEW. CLEARLY STATE CAPACITIES AND EQUIPMENT OPTIONS.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY CHANGES FROM ORIGINAL DESIGN INCLUDING, BUT NOT LIMITED TO DIMENSIONS, STRUCTURAL IMPACTS, ELECTRICAL IMPACTS, ETC. CONTRACTOR IS RESPONSIBLE FOR THE COSTS RESULTING FROM THESE CHANGES.

CLEANING

1. CLEAN ALL WORK AFTER IT HAS BEEN COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO HYDRONIC CHEMICAL TREATMENT, DUCT CLEANING, EQUIPMENT CLEANING, VALVE CLEANING, STRAINER CLEAN OUT, DOMESTIC WATER PIPING CLEANING, AND GAS PIPING CLEANING.
2. CLEAN UP SITE AT THE END OF EACH DAY AFTER WORK. ONCE ALL WORK HAS BEEN COMPLETED, CLEAN UP THE SITE IN A CONDITION SATISFACTORILY TO THE OWNER.

COORDINATION

1. ALL WORK DUE TO THESE CONSTRUCTION DOCUMENTS SHALL BE COORDINATED WITH OTHER TRADES TO ENSURE EFFICIENT CONSTRUCTION. THIS COORDINATION SHALL OCCUR BEFORE BEGINNING CONSTRUCTION.
2. COORDINATE ALL ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR BEFORE BEGINNING WORK.
3. CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, SLEEVES, PIPING, EQUIPMENT, AND DUCT LOCATIONS BEFORE CONCRETE IS POURED.

## MATERIALS AND EQUIPMENT

GENERAL EQUIPMENT REQUIREMENTS

1. EQUIPMENT MAKE AND MODELS IN THESE CONSTRUCTION DOCUMENTS ARE TO ESTABLISH DESIGN INTENT. ALTERATIONS FROM THESE SELECTIONS ARE ACCEPTABLE AS LONG AS THEY ARE REVIEWED BY THE ENGINEER FOR CONFORMANCE TO DESIGN INTENT. CONTRACTOR IS STILL RESPONSIBLE FOR DIMENSIONS AND ELECTRICAL COORDINATION.
2. CONTRACTOR TO ENSURE EQUIPMENT AND MATERIALS ARE UL LISTED OR APPROVED BY A SIMILAR LISTING PROCESS.
3. CONTRACTOR IS RESPONSIBLE FOR ALL ACCESS DOORS REQUIRED IN THIS PROJECT FOR EQUIPMENT, FIRE DAMPERS, SMOKE DAMPERS, FIRE/SMOKE DAMPERS, MATERIAL, VALVE, OR FITTING ACCESS. ACCESS PANEL SIZE SHALL BE APPROPRIATE FOR THE EQUIPMENT OR VALVE TO BE ACCESSED. COORDINATE WITH ARCHITECTURAL DRAWINGS. FRAME SHALL BE MOUNTED FLUSH TO THE SURFACE WITH APPROPRIATE LOCKING MECHANISM. ACCESS PANEL SHALL BE APPROPRIATELY RATED AND INSTALLED IF LOCATED IN A RATED ASSEMBLY.

## MATERIALS

DUCTWORK

1. ALL G90 GALVANIZED DUCTWORK SHALL BE CONSTRUCTED PER ASTM-A653. ALL DUCTWORK SHALL BE 24 GAUGE AT A MINIMUM.
2. ROUND DUCTWORK IN EXPOSED AREAS SHALL BE SPIRAL CONSTRUCTION.
3. ROUND DUCTWORK THAT IS LINED SHALL BE MCGILL K-27 OR EQUAL.
4. ALL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
5. ALL DUCTWORK SHALL BE SUPPORTED AND BRACED APPROPRIATELY PER MANUFACTURER AND SEISMIC REQUIREMENTS.
6. FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 5 FEET UNLESS DRAWINGS STATE OTHERWISE OR YOU HAVE APPROVAL FROM THE OWNER AND ENGINEER.

DUCT INSULATION

1. CONCEALED FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE INSULATED WITH 1-1/2" INSULATION WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.
2. EXPOSED FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE ACOUSTICALLY LINED WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.
3. EXTERIOR FRESH AIR, SUPPLY, AND RETURN DUCTWORK SHALL BE DOUBLE WALLED CONSTRUCTION WITH 2" INSULATION WITH A MINIMUM R-VALUE THAT MEETS THE REQUIREMENTS OF THE IECC.

GRILLES, REGISTERS, AND DIFFUSERS

1. VERIFY ALL SURFACES AND REFLECTED CEILING PLANS BEFORE ORDERING DIFFUSERS. ALTERNATE MANUFACTURERS ARE ALLOWED AS LONG AS SUPPLIER VERIFIES SIZING TO ENSURE PROPER THROW AND NOISE CRITERIA. ENSURE APPEARANCE OF ALTERNATE IS SIMILAR TO ORIGINAL DESIGN.

ACCESSORIES

1. CONTRACTOR SHALL PROVIDE FILTERS FOR ALL PIECES OF EQUIPMENT. IF EQUIPMENT IS RAN DURING CONSTRUCTION, REPLACE FILTERS ONCE THE PROJECT IS TURNED OVER TO THE OWNER. SEE THESE DOCUMENTS OF MANUFACTURER RECOMMENDATIONS FOR FILTER SIZES AND REQUIREMENTS.
2. PROVIDE AND INSTALL FLEXIBLE CONNECTIONS ON ALL PIECES OF EQUIPMENT THAT HAS A CHANCE OF VIBRATING. THIS INCLUDED DUCTWORK AND PIPING. PROVIDE AN APPROPRIATE FLEX CONNECTION FOR THE APPLICATION IT IS USED.
3. CONTRACTOR SHALL SUPPLY FIRE, SMOKE, AND FIRE/SMOKE DAMPERS AS SHOWN ON DRAWINGS AS WELL AS WHERE REQUIRED BY CODE. FIRE DAMPERS SHALL MEET ALL CODE AND UL REQUIREMENTS. PROVIDE FIRE/SMOKE DAMPERS WITH 120 VOLT ACTUATOR.
4. PROVIDE PARALLEL BLADE MANUAL BALANCE DAMPERS ON ALL DUCTWORK RUNOUTS UNLESS DRAWINGS STATE OTHERWISE.

## EXECUTION

MATERIALS

1. DUCTWORK SHALL BE KEPT CLEAN OF ALL DIRT AND DEBRIS. IT SHALL ALSO BE COVERED AT THE END OF EACH DAY TO LIMIT THE AMOUNT OF DUST INTRUSION. TEST DUCTWORK FOR LEAKAGE PER IMC AND IECC REQUIREMENTS. PROVIDE AND INSTALL APPROPRIATE HANGERS FOR ALL DUCTWORK PER MANUFACTURER AND CODE REQUIREMENTS. ENSURE DUCTWORK CONSTRUCTION MEETS CODE, SMACNA, AND ASHRAE REQUIREMENTS.
2. CLEAN AND SEAL ALL EQUIPMENT PRIOR TO INSTALLING NEW FILTERS. REPLACE FILTER IF EQUIPMENT WAS RAN DURING CONSTRUCTION.

EQUIPMENT

1. INSTALL ALL EQUIPMENT PER MANUFACTURER AND CODE REQUIREMENTS. ENSURE EQUIPMENT IS ACCESSIBLE FOR EASE OF MAINTENANCE.
2. ENSURE EQUIPMENT IS PROPERLY ANCHORED AND BRACED FOR CODE, MANUFACTURER, AND STRUCTURAL REQUIREMENTS.
3. IDENTIFY EACH PIECE OF EQUIPMENT AS SHOWN IN THESE CONSTRUCTION DOCUMENTS WITH PLASTIC TAGS INCLUDING EQUIPMENT ABBREVIATION AND NUMBER. CONTACT ENGINEER IF THERE IS A DISCREPANCY IN NUMBERING.

CONTROLS

1. CONTRACTOR SHALL PROVIDE CONTROLS ON THIS PROJECT PER CONSTRUCTION DRAWING REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, PROGRAMMING, VALVES, AND TRIM TO ENSURE A COMPLETE FUNCTIONING SYSTEM THAT OPERATES PER THE DESIGNED SEQUENCE OF OPERATION.
2. COORDINATE ALL WORK WITH THE ELECTRICAL CONTRACTOR FOR ALL WORK INCLUDING CONDUIT, WIRING, AND ELECTRICAL CONNECTIONS.
3. EXPOSED WIRING IN A PLENUM SHALL BE PLENUM RATED AND MEET ALL CODE REQUIREMENTS.

TESTING, ADJUSTING, AND BALANCING

1. PROVIDE TESTING, ADJUSTING, AND BALANCING ON THIS PROJECT INCLUDING ALL AIR FLOWS, STATIC PRESSURES, AND OTHER CONDITIONS OF THE EQUIPMENT. PROVIDE A REPORT SHOWING ALL ACTUAL VERSUS DESIGN CONDITIONS.

EQUIPMENT START UP

1. ENSURE EQUIPMENT IS PROPERLY SET UP BEFORE STARTING. THIS INCLUDES, BUT IS NOT LIMITED TO SAFETY VALVES, VALVES, TRIM, WIRING, LUBRICATION, CONTROLS, ETC.
2. START EQUIPMENT AND PROVIDE OWNER WITH DOCUMENTATION OF START UP AND PROPER EQUIPMENT OPERATION.

CLEANING AND PATCHING

1. CLEAN THE WORK SITE COMPLETELY AT THE END OF THE PROJECT IN A MANNER ACCEPTABLE TO OWNER. REPAIR ANY DAMAGED FINISHED SURFACES WITH A CRAFTSMAN THAT IS SKILLED IN THAT TRADE.

TRAINING

1. PROVIDE OWNER WITH APPROPRIATE TRAINING ON EQUIPMENT OPERATION AND MAINTENANCE. PROVIDE OWNER WITH RED LINE DRAWINGS, SUBMITTALS, WARRANTY INFORMATION, AND OPERATION AND MAINTENANCE MANUALS AT THIS TIME.

REGISTERED PROFESSIONAL ENGINEER
1-13-22
91434PE
OREGON
JULY 28, 2005
TYSON JOE MOFALL
EXPIRES: 12-31-2022

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DESIGN DEVELOPMENT

DRAWING NO.
M2.1
HVAC SPECS

## PLUMBING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | COLD WATER LINE SIZE | HOT WATER LINE SIZE | WASTE LINE SIZE | VENT LINE SIZE |
|---|---|---|---|---|---|
| RD-1 | ROOF DRAIN | - | - | SEE PLAN$ | - |
| OD-1 | OVERFLOW DRAIN | - | - | SEE PLAN$ | - |
| DS-1 | DOWN SPOUT NOZZLE | - | - | SEE PLAN$ | - |

RD-1 ROOF DRAIN: JAY R. SMITH 1015 CID ROOF DRAIN WITH CAST IRON DOME, FLASHING CLAMP, GRAVEL STOP, ADJUSTABLE EXTENSION SLEEVE, UNDERDECK CLAMP AND SUMP RECEIVER.

OD-1 OVERFLOW DRAIN: JAY R. SMITH 1080 CID ROOF DRAIN WITH CAST IRON DOME, FLASHING CLAMP, GRAVEL STOP, ADJUSTABLE EXTENSION SLEEVE, UNDERDECK CLAMP, SUMP RECEIVER AND 2" WATER DAM.

DS-1 DOWN SPOUT NOZZLE: JAY R SMITH 1770 DOWNSPOUT NOZZLE WITH BIRD SCREEN.

## ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|---|---|
| °F | DEGREES FAHRENHEIT |
| AC | AIR CONDITIONING |
| ACH | AIR CHANGES PER HOUR |
| ACT | ACOUSTICAL CEILING TILE |
| AL | ACOUSTIC LINING |
| ALT | ALTERNATIVE |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| BHP | BRAKE HORSEPOWER |
| BMS | BUILDING MANAGEMENT SYSTEM |
| BTU | BRITISH THERMAL UNITS |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CHAR | CHARACTERISTICS |
| COP | COEFFICIENT OF PERFORMANCE |
| CV | CONSTANT VOLUME |
| DB | DRY BULB |
| DBA | DECIBEL |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EDB | ENTERING DRY BULB |
| EER | ENERGY EFFICIENCY RATIO |
| ESP | EXTERNAL STATIC PRESSURE (INCHES W.G.) |
| EWB | ENTERING WET BULB |
| EWT | ENTERING WATER TEMPERATURE |
| (E) | EXISTING |
| FLA | FULL LOAD AMPS |
| FT | FEET |
| GPM | GALLONS PER MINUTE |
| HP | HORSEPOWER |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| HSPF | HEATING SEASONAL PERFORMANCE FACTOR |
| IN | INCH |
| KW | KILOWATTS |
| LB | POUNDS |
| LAT | LEAVING AIR TEMPERATURE |
| LWB | LEAVING WET BULB |
| LWT | LEAVING WATER TEMPERATURE |
| MAX | MAXIMUM |
| MBH | BTUH'S IN THOUSANDS |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MECH | MECHANICAL |
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## MECHANICAL LEGEND

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- HIDDEN LINE
- 1,2,3, AND 4 WAY DIFFUSERS, RESPECTIVELY
- VOLUME DAMPER
- SPIN IN FITTING
- DEMOLISHED DUCT CAP
- CEILING EXHAUST FAN
- CABINET (INLINE) EXHAUST FAN
- T EQUIP # — THERMOSTAT
- RETURN GRILLE
- #-HR — # HOUR RATED FIRE DAMPER
- BALL VALVE
- GAS PRESSURE REGULATOR
- POINT OF CONNECTION
- POINT OF DEMOLITION

## PLUMBING SHEET INDEX



## GENERAL PROJECT NOTES

1. CONTRACTOR TO VERIFY EQUIPMENT LOCATIONS, DIMENSIONS, AND COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. ALL WORK IS TO BE IN COMPLIANCE WITH CURRENT CODES AS ADOPTED AND AMENDED BY THE LOCAL JURISDICTION. PROVIDE ALL LABOR AND MATERIAL AS NECESSARY TO MEET THE CURRENT ADOPTED CODES.
4. RECORD DRAWINGS OF THE INSTALLATION ARE REQUIRED TO BE PROVIDED BY THE CONTRACTOR WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION. REDLINES OF AS-BUILT PLANS AND SPECIFICATIONS ARE ACCEPTABLE.
5. PROVIDE OPERATION AND MAINTENANCE MANUALS WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION OF ALL EQUIPMENT INSTALLED.
6. INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SEISMICALLY BRACED PER CODE, MANUFACTURER RECOMMENDATIONS, OR STANDARD CONSTRUCTION PRACTICES, WHICHEVER IS MORE STRINGENT.
7. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
8. INSTALL ALL WATER LINES ON EXTERIOR WALLS, INCLUDING LINES IN ATTIC OR ROOF, ON WARM SIDE (INSIDE) OF INSULATION.

REGISTERED PROFESSIONAL ENGINEER
1-13-22
91434PE
OREGON
JULY 28, 2005
TYSON JOE MOFALL
EXPIRES: 12-31-2022

# ALSEA SCHOOL DISTRICT
## 1b.7: POWER PANEL ROOM & HALLWAY ADDITION

*PROJECT SITE:*
*301 SOUTH 3rd STREET*
*ALSEA, OREGON 97324*


CB Const, Inc
CB Construction
1202 Adams Avenue
LaGrande, OR 97850

ALSEA SCHOOL DISTRICT

STRAIGHTLINE ARCHITECTURE
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Date: 11-17-2021
Project: ALS-1821
Version History: V1.0
PHASES (PH):

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DESIGN DEVELOPMENT

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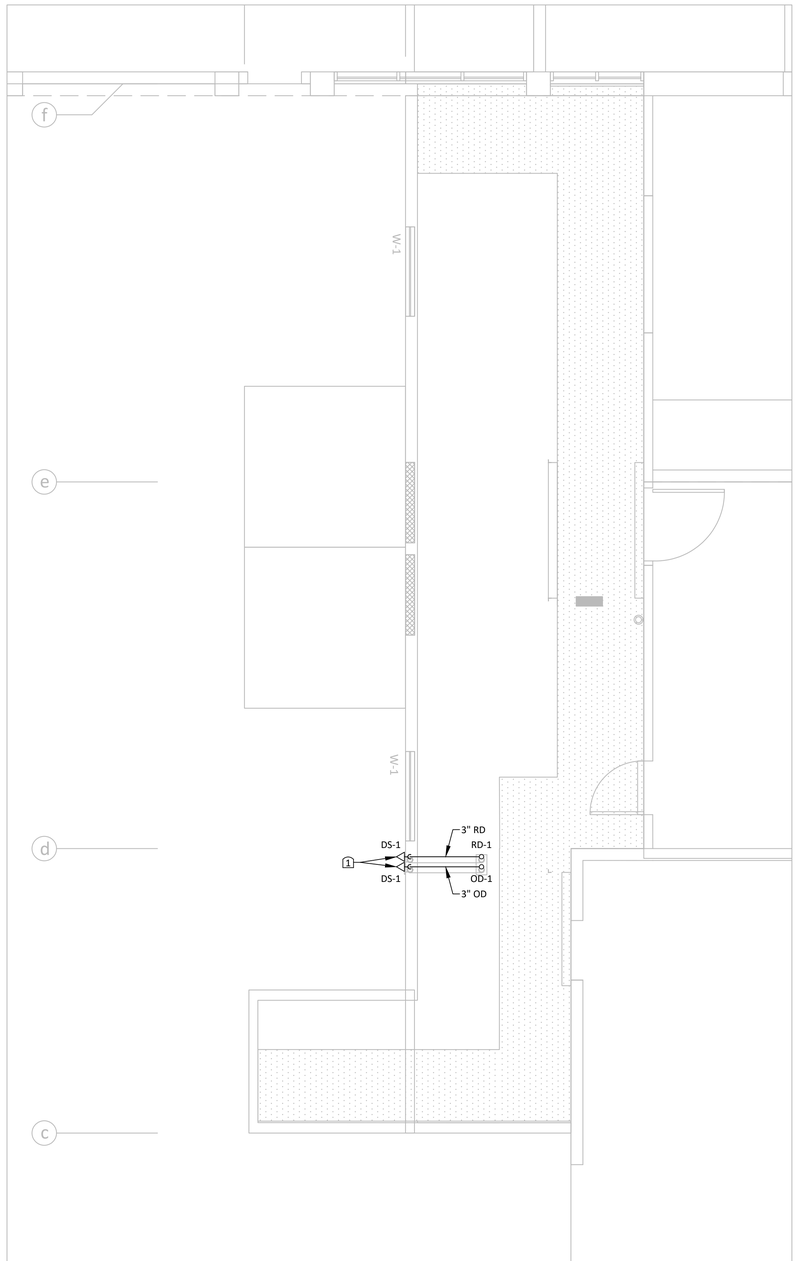
PLUMB. COVER SHEET




HVAC PLAN

1 / M1.1 SCALE: 1/4"=1'

0' 2' 4' 8'

## GENERAL NOTES

1. EXISTING SHOWN LIGHT, NEW WORK SHOWN DARK.
2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. COORDINATE ALL WORK WITH OTHER TRADES.
4. GRADE FOR DRAIN LINES SHALL BE 1/4" PER FT MINIMUM UNLESS OTHERWISE NOTED.
5. INSTALL ALL WORK PER LOCAL CODES AS A MINIMUM STANDARD. IF PLANS REFLECT SCOPE THAT EXCEEDS CODE REQUIREMENTS, INSTALL WORK PER THE HIGHER STANDARD.
6. INSTALL CLEANOUTS AT THE BASE OF ALL WASTE AND ROOF DRAIN STACKS.
7. PROVIDE AN APPROVED FIRE STOP ASSEMBLY FOR ANY PIPING PENETRATING RATED ASSEMBLIES.
8. REFERENCE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS AND LOCATIONS OF PLUMBING ITEMS.
9. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
10. PROVIDE WATER HAMMER ARRESTORS FOR ALL SOLENOID VALVES AND QUICK CLOSING VALVES ON LINES OVER 1/2".

## KEYNOTES

1. MOUNT AT 18" A.F.F. MOUNT PLACARD ABOVE OVER FLOW DRAIN LABELING AS OVER FLOW DRAIN.

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ROOF PLAN

# GENERAL

SCOPE OF WORK

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED LABOR, EQUIPMENT, AND MATERIALS AS SHOWN OR INDICATED IN THESE DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ANY REQUIRED SUPPORTING MATERIALS IN ORDER TO PROVIDE A FULLY FUNCTIONING SYSTEM AS PER THE DESIGN INTENT OF THESE DRAWINGS.
2. PROPER AND REASONABLE EFFORT TO ENSURE COMPLETE CONSTRUCTIONS DOCUMENTS HAS BEEN PROVIDED ON THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY DRAWINGS AND LOOK FOR ANY INACCURACIES BEFORE BIDDING ON PROJECT. IF ANY INACCURACIES ARE NOTICED, PLEASE REPORT THEM TO THE ENGINEER AS SOON AS POSSIBLE. DO NOT BID OR PERFORM ANY WORK BEFORE NOTIFYING ENGINEER OF THESE DISCREPANCIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY FEES, PERMITS, AND INSPECTIONS REQUIRED TO COMPLETE THE WORK INTENDED IN THESE DOCUMENTS.
4. COORDINATE ALL ROOF AND WALL PENETRATIONS WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR TO ENSURE ALL PENETRATIONS ARE PROPERLY SEALED AND SUPPORTED.
5. PROVIDE ALL NECESSARY WORK INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL TO COMPLETE THE WORK SHOWN IN THESE DRAWINGS UNLESS THAT WORK IS SPECIFICALLY CALLED OUT UNDER ANOTHER DIVISION.
6. COORDINATE ALL WORK WITH ALL OTHER DIVISIONS IN ORDER TO ENSURE WORK IS FULLY COMPLETED. ALSO COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY NECESSARY SEISMIC RESTRAINTS PER LISTED CODE, MANUFACTURER, AND STANDARD RECOMMENDATIONS.
8. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY AND ALL DAMAGE THAT OCCURS AS A RESULT OF THE WORK ON THIS PROJECT. WORK MUST BE REPAIRED TO A CONDITION THAT IS ACCEPTED BY OWNER.
9. CONTRACTOR SHALL ONLY EMPLOYEE COMPETENT, QUALITY TRADESMEN IN THE TRADE THEY ARE SKILLED IN FOR THE WORK THEY ARE PROVIDING.
10. CONTRACTOR SHALL PROVIDE AND INSTALL NEW MATERIALS AND EQUIPMENT UNLESS THOSE MATERIALS OR EQUIPMENT ARE SPECIFICALLY STATED TO BE REUSED.
11. ANY MATERIALS OR TRIM THAT IS REQUIRED IN ORDER TO MAKE A SYSTEM OPERATE PROPERLY SHALL BE PROVIDED AND INSTALLED EVEN IF THOSE MATERIALS ARE NOT SHOWN IN THESE DRAWINGS.
12. IF ANY TESTING IS REQUIRED FOR THIS WORK, CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY REQUIRED MATERIAL, EQUIPMENT, OR LABOR.
13. ARCHITECT, ENGINEER, OWNER, OR HIS/HER REPRESENTATIVE MAY INSPECT THE WORK AT ANY TIME. IF WORK HAS BEEN COVERED, IT SHALL BE UNCOVERED FOR INSPECTION.
14. GET APPROVAL IN WRITING FROM OWNER, ARCHITECT, AND ENGINEER BEFORE PERFORMING ANY ADDITIONAL WORK YOU EXPECT TO BE COMPENSATED FOR.

EQUIPMENT AND MATERIAL HANDLING

1. ENSURE EQUIPMENT AND MATERIAL ORDERS ARE DELIVERED IN A TIMELY MANNER IN ORDER TO ENSURE PROJECT SCHEDULE IS CONFORMED TO.
2. CONTRACTOR IS RESPONSIBLE TO ENSURE EQUIPMENT AND MATERIAL IS NOT DAMAGED WHEN DELIVERED. ANY DAMAGED ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
3. COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER IN ORDER TO LOCATE A SAFE AND CLEAN SPACE IN ORDER TO STORE MATERIALS, EQUIPMENT, AND TOOLS IN AN ORGANIZED MANNER.
4. COORDINATE WORK AREAS WITH GENERAL CONTRACTOR TO ENSURE WORKPLACE SAFETY AND CONTRACTOR COORDINATION.
5. DAMAGED OR LOST EQUIPMENT OR MATERIALS SHALL BE REPLACED AT NO COST TO THE OWNER.
6. CONTRACTOR IS RESPONSIBLE TO PROVIDE A ONE YEAR WARRANTY FOR ALL WORK COMPLETED ON THIS PROJECT. WARRANTY COVERAGE SHALL INCLUDE EQUIPMENT, CRAFTSMANSHIP, AND ALL OTHER MATERIALS.

STANDARDS AND CODES

1. ALL MATERIALS AND WORK COMPLETED BY CONTRACTOR SHALL BE PERFORMED PER ALL CODE, MANUFACTURER, AND OWNER REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
2. CONTRACTOR SHALL FOLLOW THE MOST RECENTLY ADOPTED EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
   - 2.1. INTERNATIONAL BUILDING CODE
   - 2.2. INTERNATIONAL FIRE CODE
   - 2.3. NATIONAL FIRE PROTECTION ASSOCIATION
   - 2.4. INTERNATIONAL FUEL GAS CODE
   - 2.5. INTERNATIONAL ENERGY CONSERVATION CODE
   - 2.6. INTERNATIONAL MECHANICAL CODE
   - 2.7. IDAHO PLUMBING CODE
   - 2.8. AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
   - 2.9. SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
   - 2.10. ALL OTHER APPLICABLE LAWS AND REGULATIONS
3. THESE DRAWINGS DO NOT INTENTIONALLY, OR UNINTENTIONALLY PERMIT INSTALLATIONS NOT CONFORMING TO ANY OF THESE STANDARDS OR CODES. CONTRACTOR SHALL ENSURE INSTALLATIONS MEET OR EXCEED THESE REQUIREMENTS.

EQUIPMENT SUBMITTALS

1. PROVIDE EQUIPMENT SUBMITTALS FOR ALL EQUIPMENT NECESSARY FOR THIS PROJECT. THIS INCLUDES MECHANICAL EQUIPMENT, DUCTWORK, ACCESSORIES, PIPING, PLUMBING FIXTURES, VALVES, TRIM, ETC. SUBMIT EVERYTHING REQUIRED FOR THIS PROJECT IN ONE PACKAGE NEATLY ORGANIZED AND LABELED FOR REVIEW. CLEARLY STATE CAPACITIES AND EQUIPMENT OPTIONS.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY CHANGES FROM ORIGINAL DESIGN INCLUDING, BUT NOT LIMITED TO DIMENSIONS, STRUCTURAL IMPACTS, ELECTRICAL IMPACTS, ETC. CONTRACTOR IS RESPONSIBLE FOR THE COSTS RESULTING FROM THESE CHANGES.

CLEANING

1. CLEAN ALL WORK AFTER IT HAS BEEN COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO HYDRONIC CHEMICAL TREATMENT, DUCT CLEANING, EQUIPMENT CLEANING, VALVE CLEANING, STRAINER CLEAN OUT, DOMESTIC WATER PIPING CLEANING, AND GAS PIPING CLEANING.
2. CLEAN UP SITE AT THE END OF EACH DAY AFTER WORK. ONCE ALL WORK HAS BEEN COMPLETED, CLEAN UP THE SITE IN A CONDITION SATISFACTORILY TO THE OWNER.

COORDINATION

1. ALL WORK DUE TO THESE CONSTRUCTION DOCUMENTS SHALL BE COORDINATED WITH OTHER TRADES TO ENSURE EFFICIENT CONSTRUCTION. THIS COORDINATION SHALL OCCUR BEFORE BEGINNING CONSTRUCTION.
2. COORDINATE ALL ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR BEFORE BEGINNING WORK.
3. CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, SLEEVES, PIPING, EQUIPMENT, AND DUCT LOCATIONS BEFORE CONCRETE IS POURED.

# MATERIALS AND EQUIPMENT

GENERAL EQUIPMENT REQUIREMENTS

1. EQUIPMENT MAKE AND MODELS IN THESE CONSTRUCTION DOCUMENTS ARE TO ESTABLISH DESIGN INTENT. ALTERATIONS FROM THESE SELECTIONS ARE ACCEPTABLE AS LONG AS THEY ARE REVIEWED BY THE ENGINEER FOR CONFORMANCE TO DESIGN INTENT. CONTRACTOR IS STILL RESPONSIBLE FOR DIMENSIONS AND ELECTRICAL COORDINATION.
2. CONTRACTOR TO ENSURE EQUIPMENT AND MATERIALS ARE UL LISTED OR APPROVED BY A SIMILAR LISTING PROCESS.
3. CONTRACTOR IS RESPONSIBLE FOR ALL ACCESS DOORS REQUIRED IN THIS PROJECT FOR EQUIPMENT, FIRE DAMPERS, SMOKE DAMPERS, FIRE/SMOKE DAMPERS, MATERIAL, VALVE, OR FITTING ACCESS. ACCESS PANEL SIZE SHALL BE APPROPRIATE FOR THE EQUIPMENT OR VALVE TO BE ACCESSED. COORDINATE WITH ARCHITECTURAL DRAWINGS. FRAME SHALL BE MOUNTED FLUSH TO THE SURFACE WITH APPROPRIATE LOCKING MECHANISM. ACCESS PANEL SHALL BE APPROPRIATELY RATED AND INSTALLED IF LOCATED IN A RATED ASSEMBLY.

# MATERIALS

PIPING

1. WATER: TYPE L COPPER SUITABLE FOR USE ON DOMESTIC WATER SYSTEMS. ENSURE COMPLIANCE WITH ASTM B883.
2. SANITARY WASTE AND VENT: PVC-DWV PIPE AND FITTINGS. CONFIRM COMPLIANCE WITH ASTM D2665.
3. SANITARY WASTE AND VENT: ABS-DWV PIPE AND FITTINGS. CONFIRM COMPLIANCE WITH ASTM D2661
4. SANITARY WASTE AND VENT: CAST IRON PIPE AND FITTINGS. CONFIRM COMPLIANCE WITH ASTM A888 AND CISPI 301.
5. NATURAL GAS: SCHEDULE 40 BLACK STEEL CONFORMING WITH ASTM A53A.

PIPE FITTINGS

1. THREADED: PIPES 2 INCHES AND SMALLER SHALL HAVE MALLEABLE IRON FITTINGS AND UNIONS CONFORMING TO ASTM A-197 TO MATCH PIPE MATERIAL.
2. SOLDERED: WROUGHT COPPER CONFORMING TO ANSI B16.22 SPECIFICALLY DESIGNED FOR SOLDERING.
3. BRAZING: WROUGHT COPPER CONFORMING TO ASTM B16.22 SPECIFICALLY DESIGNED FOR BRAZING.

PIPE JOINTS

1. SCREWED JOINTS: APPLY JOINT LUBRICANT SEALER OR TEFLON TAPE PER MANUFACTURER RECOMMENDATIONS. ENSURE PRODUCT IS DESIGNED FOR EACH SPECIFIC APPLICATION.
2. SOLDERED: USE LEAD FREE SOLDER AND WATER SOLUBLE FLUX. JOINTS SHALL CONFORM TO ASTM D2564.
3. BRAZED: USE PHOS-COPPER BRAZING ALLOY. JOINTS SHALL CONFORM TO ANSI B2.2.
4. SOLVENT WELD: APPLY SOLVENT PER MANUFACTURER RECOMMENDATIONS. CONFORM TO ASTM D2564.
5. UNIONS: USE DIELECTRIC UNIONS WHERE TWO DISSIMILAR METALS ARE CONNECTED.

VALVES AND PIPING SPECIALTIES

1. VALVES SHALL BE BRONZE AND RATED FOR 125 PSI AS A MINIMUM. INCREASE THIS RATING IF THE SYSTEM WILL BE OPERATING AT PRESSURES HIGHER THAN THIS.
2. BALL VALVES SHALL BE FULL PORT WITH CHROME PLATED BRASS BALLS AND STAINLESS STEEL TRIM.
3. PROVIDE AND INSTALL ISOLATION VALVES AT EACH SYSTEM MAIN AND AT EACH SYSTEM BRANCH FOR EASE OF SYSTEM MAINTENANCE.
4. INSTALL ALL VALVES WITH PROPER CLEARANCES AND EASE OF ACCESS. PROVIDE ACCESS PANELS WHERE VALVES ARE LOCATED BEHIND WALLS OR CEILINGS.
5. PROVIDE ALL VALVES AND STRAINERS FULL SIZE UNLESS NOTED OTHERWISE. CONTROL VALVES ARE THE EXCEPTION AND SHALL BE SELECTED BASED ON PROPER CV VALUES.
6. SHUT OFF AND THROTTLING: PROVIDE BALL VALVES UP TO 2 INCH AND PROVIDE BUTTERFLY VALVES ON PIPES LARGER THAN THIS.
7. THROTTLING: PROVIDE GATE OR GLOBE VALVES.
8. STRAINER: BRONZE CONSTRUCTION WITH STAINLESS STEEL STRAINER.
9. BALANCE VALVE: BALL VALVE WITH PRESSURE PORTS
10. PROVIDE WATER HAMMER ARRESTERS AS REQUIRED TO PREVENT WATER HAMMER. INSTALL PER MANUFACTURER RECOMMENDATIONS.
11. PROVIDE ESCUTCHEON PLATES ALL ALL WALL, CEILING, AND FLOOR PENETRATIONS. ENSURE PLATES ARE NEAT, FLAT, AND SECURE THE PIPING IN THE PENETRATION. ESCUTCHEONS TO BE CHROME PLATED BRASS.

PIPE HANGERS AND SUPPORTS

1. PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED PER MANUFACTURER REQUIREMENTS. THEY SHALL ALSO BE INSTALLED PER ASME, MSS, AND ANY STRUCTURAL REQUIREMENTS.
2. SUPPORT ALL PIPE INDIVIDUALLY WITH AT LEAST ONE HANGER AT EACH BRANCH.
3. SUPPORT ALL PIPING SO THAT IT IS FIRMLY HELD IN PLACE PER CODE AND MANUFACTURER REQUIREMENTS.
4. SIZE HANGERS TO ACCOMMODATE INSULATION AND USE INSULATION SHIELDS WHERE APPLICABLE.
5. SPACE HANGERS PER BELOW, MANUFACTURER, OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
   - 5.1. COPPER: 6 FEET
   - 5.2. STEEL: 6 FEET
   - 5.3. COPPER: 10 FEET
   - 5.4. PVC AND ABS: 4 FEET
   - 5.5. CAST IRON: 4 FEET
6. SUPPORT VERTICAL PIPING EVERY 10 FEET.
7. DO NOT USE WIRE OR PLUMBERS TAPE.
8. VALVES AND JOINTS SHALL NOT SUPPORT THE WEIGHT OF THE PIPE IN ANY WAY.
9. SUPPORT PIPING ON ROOF WITH MANUFACTURER PIPING SUPPORTS SUCH AS MIRO STACKABLE BLOCKING SUPPORTS.
10. ENSURE PIPING IS PROPERLY SEISMICALLY BRACED PER STRUCTURAL AND CODE REQUIREMENTS.

PIPE INSULATION

1. PIPES SHALL BE INSULATED WITH PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. VALVES AND TRIM SHALL BE INSULATED WITH FIBERGLASS BATT THAT IS COVERED WITH PLASTIC OR CLOTH. SEAL ALL JOINTS AND ENSURE VALVES ARE STILL SERVICEABLE.
2. PROVIDE ALL INSULATED EXTERIOR PIPING WITH ALUMINUM JACKET THAT HAS BEEN SEALED WEATHER TIGHT.
3. DOMESTIC HOT WATER, COLD WATER, AND RECIRCULATION LINES SHALL BE INSULATED WITH 1 INCH OF FIBERGLASS INSULATION WITH ALL SERVICE JACKET.

# EXECUTION

GENERAL PIPING

1. ALL PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY CALLED OUT IN THE DRAWINGS. EXPOSED PIPING SHALL BE NEAT WITH MINIMUM FITTINGS AND JOINTS.
2. PREPARE ALL PIPING TRENCHES, FILL, AND FINISH PER INDUSTRY STANDARDS.
3. CLOSE ENDS OF PIPE IMMEDIATELY AFTER INSTALLATION IN ORDER TO ENSURE DUST AND DEBRIS DO NOT ENTER THE PIPING SYSTEM.
4. EACH PIPING SYSTEM SHALL BE CLEANED AND FLUSHED PER MANUFACTURER AND CODE REQUIREMENTS.
5. PROVIDE UNIONS, FLANGES, AND CONNECTIONS AT EACH PIECE OF EQUIPMENT TO ENSURE EQUIPMENT CAN BE EASILY ACCESSED AND SERVICED.
6. SUPPORT ALL PIPE TO ENSURE IT DOES NOT SAG OR BEND.
7. INSTALL DIELECTRIC UNIONS AT CONNECTION POINTS OF DISSIMILAR METALS.
8. INSTALL PIPING, SUPPORTS, AND EXPANSION JOINTS TO ENSURE PIPE CAN EXPAND AND CONTRACT DURING NORMAL OPERATION WITHOUT CAUSING DAMAGE TO THE SYSTEM.
9. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR ALL PIPING PENETRATIONS THAT REQUIRE CORE DRILLING. ENSURE THE OPERATOR IS TRAINED AND PROTECT ALL SURFACES FROM DAMAGE AND DIRT DURING DRILLING.

EQUIPMENT

1. INSTALL ALL EQUIPMENT PER MANUFACTURER AND CODE REQUIREMENTS. ENSURE EQUIPMENT IS ACCESSIBLE FOR EASE OF MAINTENANCE.
2. ENSURE EQUIPMENT IS PROPERLY ANCHORED AND BRACED FOR CODE, MANUFACTURER, AND STRUCTURAL REQUIREMENTS.
3. IDENTIFY EACH PIECE OF EQUIPMENT AS SHOWN IN THESE CONSTRUCTION DOCUMENTS WITH PLASTIC TAGS INCLUDING EQUIPMENT ABBREVIATION AND NUMBER. CONTACT ENGINEER IF THERE IS A DISCREPANCY IN NUMBERING.

CONTROLS

1. CONTRACTOR SHALL PROVIDE CONTROLS ON THIS PROJECT PER CONSTRUCTION DRAWING REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, PROGRAMMING, VALVES, AND TRIM TO ENSURE A COMPLETE FUNCTIONING SYSTEM THAT OPERATES PER THE DESIGNED SEQUENCE OF OPERATION.
2. COORDINATE ALL WORK WITH THE ELECTRICAL CONTRACTOR FOR ALL WORK INCLUDING CONDUIT, WIRING, AND ELECTRICAL CONNECTIONS.
3. EXPOSED WIRING IN A PLENUM SHALL BE PLENUM RATED AND MEET ALL CODE REQUIREMENTS.

TESTING, ADJUSTING, AND BALANCING

1. PROVIDE TESTING, ADJUSTING, AND BALANCING ON THIS PROJECT INCLUDING ALL AIR FLOWS, STATIC PRESSURES, AND OTHER CONDITIONS OF THE EQUIPMENT. PROVIDE A REPORT SHOWING ALL ACTUAL VERSUS DESIGN CONDITIONS.

EQUIPMENT START UP

1. ENSURE EQUIPMENT IS PROPERLY SET UP BEFORE STARTING. THIS INCLUDES, BUT IS NOT LIMITED TO SAFETY VALVES, VALVES, TRIM, WIRING, LUBRICATION, CONTROLS, ETC.
2. START EQUIPMENT AND PROVIDE OWNER WITH DOCUMENTATION OF START UP AND PROPER EQUIPMENT OPERATION.

CLEANING AND PATCHING

1. CLEAN THE WORK SITE COMPLETELY AT THE END OF THE PROJECT IN A MANNER ACCEPTABLE TO OWNER. REPAIR ANY DAMAGED FINISHED SURFACES WITH A CRAFTSMAN THAT IS SKILLED IN THAT TRADE.

TRAINING

1. PROVIDE OWNER WITH APPROPRIATE TRAINING ON EQUIPMENT OPERATION AND MAINTENANCE. PROVIDE OWNER WITH RED LINE DRAWINGS, SUBMITTALS, WARRANTY INFORMATION, AND OPERATION AND MAINTENANCE MANUALS AT THIS TIME.

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