Bend-La Pine Schools

MARSHALL HIGH SCHOOL BUILDING 100 RENOVATION

Bend, Oregon

ADDENDUM NO. 1

May 1, 2023

PART 1: Revisions to Project Manual
PART 2: Revisions to Working Drawings
PART 3: Substitution Requests

BBT Architects Inc.
1140 SW Simpson Ave., Suite 200
Bend, Oregon 97702
PHONE: (541) 382-5535
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PART 1: REVISIONS TO THE PROJECT MANUAL

1.1 Correct Section 06 2000 is attached for reference.

1.2 ADD 08 7110 - Door Hardware Schedule:

a) Added hardware groups

PART 2: REVISIONS TO THE WORKING DRAWINGS

2.1

2.2 Modifications to Sheet M0.02:

a) Revised Note 1 for Wall Convectors.
b) Revised Note 3 Unit Ventilators
c) Revised Note 2 Fan Coil Units

PART 3: SUBSITUTION REQUESTS - Approved

3.1 Section 26 5100 – Light Fixtures

a) NIC Substitution Package

PART 4: CLARIFICATIONS

COLEBREIT ENGINEERING RESPONSES TO PRE-BID QUESTIONS IN BLUE; BBT in RED; Walker SE In Green.

RFI's:

1. Melamine cannot be put on ply core materials (2.01 G 2 and 3). Please verify that the drawer boxes should be white cabinet liner on ply core. Or white melamine on particle board or mdf? **Cabinet liner on ply core.**
2. Please confirm the spacing for the anchor for the lintel shown in detail 3/S5.1. **Lintel extends past rough opening 6" with (1) 3/8"x5" Titan HD 2" from end. Bolts not required along full length, just one at each end.**
3. Finish schedule on A8.01 calls for CON-1 finish in the IDF Room. A2.01 calls for SDT-1 flooring. Please confirm which is correct. **SDT-1 is the correct finish.**
4. Please confirm which walls in Janitor 107 have FRP. Also, please confirm height of FRP. **All walls to have FRP 8'-0" high.**
5. Provide details for attachment of WD-2 to structure. **Screws are required beneath batten locations.**
6. Provide details for battens and trim at WD-2 ceiling **Battens are sized as noted, attached with finish nails.**
7. There are two different Finish Carpentry 06 20 00 specifications. Please confirm which is the correct one. **The correct section is attached.**
8. Please confirm the sink at the new restrooms is to have PLAM counters in lieu of Solid Surface per 4/A8.03. **Restroom sink is a sink Sloan cast sink. No PLAM.**
    - If PLAM is the correct material, please provide specifications for PL-2 product as noted in 4/A8.03. **This detail references the sinks in the classrooms.**
9. Please provide size of header or glulam beam at entrance to bathrooms. **5 ½" x 9" GLB**

10. Can you please provide BLS 2023 standards for low voltage as referenced in walkthrough? BLS Standards are in Appendix B in the bid issue spec book.

Aspen Ridge

11. During the site walk it was mentioned that there is only a single WAP in the classrooms, please clarify. **Confirmed as per BLSD standards.**
12. There was a comment on the Samsung monitors in the rooms are to be provided by the contractor, there is nothing in the electrical specifications regarding these items. Please clarify which contractor is to furnish the TV's. **Furnished by Div. 26 contractor: See Keynote 1 sheet E2.01.**
13. Drawing E.301 shows 4ea. switched at the doors of the classrooms, I am assuming one of the switches is for the fan control and the other 3 are for the lighting per each row of fixtures, please clarify. **Confirmed.**
14. What is the design on the snowmelt system, there is only a note and no system or requirements shown. **120V self-regulating. See General Notes E2.02. See panel schedules. See BLSD standards 2023.**
15. Drawing E20.1 shows 3ea. 6" conduits from the cable tray to the IDF room, which is not an available size in EMT, would a similar installation with 4ea. 4" conduits be acceptable? **BLSD to confirm if acceptable. Request for 6"C came from BLSD department.**
16. Drawing E5.01 is showing 120v. to the security door hinges, is this correct? **Confirm with door hardware submittal. For bid purposes, assume 120V power is required.**
17. Drawing E5.01 is calling out cables to be run to the access control panel, is that located in this building or in the Gym building? **Bldg 100 IDF Rm 106.**
18. What cables and design for the security system? **See BLSD Standards 2023 for approved cabling for each department.**

Dry Canyon

19. Is an established pathway from the MDF to IDF in building 100? We were not able to verify at walkthrough. **Yes. There are existing raceways into existing Janitor 107 from school MDF. The existing feeders should be long enough to be re-purposed for remodel. However, for bid purposes, assume new feeders will be required. See BLSD standards 2023 for cabling requirements. See attached Electrical Site Plans from 2005 and 2019 for existing MDF location and existing low voltage infrastructure.**

Systems West Engineering

20. For lighting, the district typically configures classrooms for vacancy control. They listed occupancy. I also didn't see the ceiling fans shutting off with the lights.
    - **Fans have independent control for on/off in each room and are not tied to occ sensors.**
    - **Auto on/off via occupancy sensor function designation to allow for both on and off via sensor rather than just off as with vacancy.**

BIDDER SHALL NOTIFY ALL SUB-BIDDERS OF THIS ADDENDUM AND SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY INSERTING THE ABOVE ADDENDUM NUMBER IN THE SPACE PROVIDED ON THE BID FORM PRIOR TO SUBMITTING BIDS. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

ATTACHMENTS:

- Pre-bid site walk sign in sheet
- Section 06 2000
- Section 08 8710
- (2005) Electrical Site Plan
- (2019) Site Plan Power Distribution
- M0.02

Est. 1883

BEND LAPINE Schools

EDUCATING THRIVING CITIZENS

Pre-Bid Meeting

Marshall HS Building 100 Renovation
4/26/2023 - 2:30 PM – Marshall HS

Name	Representing	Phone	E-Mail
Kevin Hansen	EC Electric	541 570 0138	Kevin.Hansen@ECpowerslife.com
Don Milburn	Cascade Heating	382-8483	Don@Cascadeheat.com
Rusty Wilkerson	Aspen Ridge Elec.	541-213-0512	rwilkerson@aspenridge@live.com
Jerry Coyner	Dry Canyon Comm	541 504 5491	jcoyner@dry-canyon.com
Travis Starr	Riverfront Painting LLC	541 647-0146	travisstarr28@gmail.com
Jake Woodruff	Northwest Quality Roofing	541-647-0993	jake@nwqualityroofing.com
Alex Helm	O'Brien & Co.	971-235-8667	Alex.Helm@obrien-co.com
Scott Meinig	Bremik Construction	971-322-4234	bids@bremik.com
Troy McAllister	Sunset Electric Inc	541-741-3885	Troy@sunsetelectric.org
Tristan Mitchell	Kirby Nagelhout Construction	541-701-4872	tristanm@kirbynagelhout.com
Ashley Keegan	EC Electric	541-401-4073	ashley.keegan@ecpowerslife.com
Eric Murray	EC Electric	541-401-4073	eric.murray@ecpowerslife.com
Gabe Dailey	M2 Integration	503-314-5769	GDailey@M2Integration.net
Chris Westfall	NW Cascade FTS & Cleaning	541-771-0723	DOGOIPZ128@gmail.com

SECTION 06 2000
FINISH CARPENTRY

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

A. Finish carpentry items.

B. Wood ceiling panels and trim

1.03 RELATED REQUIREMENTS

A. Section 06 1000 - Rough Carpentry: Support framing, grounds, and concealed blocking.

B. Section 06 4100 - Architectural Wood Casework: Shop fabricated custom cabinet work and Resin Panels.

C. Section 09 9000 - Painting.

1.04 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard 2022.

B. AWI (QCP) - Quality Certification Program current edition at www.awiqcp.org.

C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards 2014.

D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards 2021, with Errata.

E. PS 1 - Structural Plywood 2019.

1.05 SUSTAINABILITY (LEED EQUIVALENT) REQUIREMENTS

A. Composite Wood Products Regulation, must be documented to have low formaldehyde emissions that meet California Air Resources Board ATCM for formaldehyde requirements for ultra-low-emitting formaldehyde (ULEF) resins or no added formaldehyde resins.

B. All adhesives and sealants wet-applied on site must meet the applicable chemical content requirements of SCAQMD Rule 1168, July 1, 2005, Adhesive and Sealant Applications , as analyzed by the methods specified in Rule 1168. The provisions of SCAQMD Rule 1168 do not apply to adhesives and sealants subject to state or federal consumer product VOC regulations.

1.06 SUBMITTALS

A. See Section 01 3300 - Shop Drawings, Product Data, and Submittals for submittal procedures.

B. Samples: Submit two samples of wood trim Six (6) inch long.
   1. For each wood trim, paneling section, and handrail provide samples 12-inches long. All wood samples shall have specified color and finish.

1.07 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

1.08 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install interior finish carpentry materials until building is enclosed and weatherproof, wet work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

B. Do not install finish carpentry materials that are wet, moisture damaged, or mold damaged.
   1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Protect materials against weather and contact with damp or wet surfaces. Stack lumber, plywood, and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation within and around stacks and under temporary coverings.

B. Deliver interior finish carpentry materials only when environmental conditions meet requirements specified for installation areas. If interior finish carpentry materials must be stored in other than installation areas, store only where environmental conditions meet requirements specified for installation areas.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

2.02 WOOD-BASED COMPONENTS

A. Wood fabricated from old growth timber is not permitted.

2.03 LUMBER MATERIALS

A. Lumber: DOC PS 20 and applicable grading rules of inspection agencies certified by ALSC's Board of Review.
   1. Factory mark each piece of lumber with grade stamp of inspection agency indicating grade, species, moisture content at time of surfacing, and mill.

B. Softwood Plywood: DOC PS 1.

C. Hardboard: AHA A135.4.

D. Softwood Lumber: Smooth sawn, maximum moisture content of 6 percent; with vertical grain of quality suitable for transparent finish.

E. Hardwood Lumber: Smooth sawn, maximum moisture content of 6 percent; with vertical grain of quality suitable for transparent finish.

2.04 SHEET MATERIALS

A. Softwood Plywood, Exposed to View: Face species as indicated, plain sawn, veneer core; PS 1 Grade A-B, glue type as recommended for application.
   1. Grading: Certified by the American Plywood Association.

B. Particleboard: ANSI A208.1; NAUF composed of wood chips, sawdust, or flakes of medium density, made with waterproof resin binders; of grade to suit application; sanded faces.
   1. Melamine faced: Grade M-2, finished on both faces with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.
      a. Color: White.

2.05 WOOD CEILING PANELS & TRIM

A. Wood Ceilign Panels:
   1. Basis-of-design: Roseburg Forest Products; Breckenridge Plywood.
   2. Species: Western red cedar
   3. Finish: Semitransparent-Stained Finish

B. Lumber Trim for Semitransparent-Stained Finish:
   1. Species and Grade: Western red cedar, Clear Heart VG (Vertical Grain) Grade A; NLGA, WCLIB, or WWPA.
   2. Maximum Moisture Content: 19 percent.
   3. Finger Jointing: Not allowed.

2.06 FASTENINGS

A. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.
   1. Glue: Aliphatic-resin, polyurethane, or resorcinol wood glue recommended by manufacturer for general carpentry use.

B. Fasteners for Interior Finish Carpentry: Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible.
   1. Where galvanized finish is indicated, provide fasteners and anchorages with hot-dip galvanized coating complying with ASTM A 153/A 153M.

2.07 FABRICATION

A. Ease edges of lumber less than 1 inch (in nominal thickness to 1/16-inch radius and edges of lumber 1 inch or more in nominal thickness to 1/8-inch radius.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

C. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

E. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

3.02 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

B. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours.

3.03 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.
   1. Do not use manufactured units with defective surfaces, sizes, or patterns.

C. Set and secure materials and components in place, plumb and level.

D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

3.04 PREPARATION FOR SITE FINISHING

A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

B. Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

3.05 CLEANING

A. Clean interior finish carpentry on exposed and semi-exposed surfaces.

3.06 PROTECTION

A. Protect installed products from damage from weather and other causes during remainder of the construction period.

B. Remove and replace finish carpentry materials that are wet, moisture damaged, and mold damaged.
   1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

Hardware Sets

208996 : BLSD Marshall High School Remodel

SET #1

Doors: 100A, 101A, 103A, 104A

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Mortise Entrance Lockset	LV9050T 06A 50-231 L283-711 L583-363	626	SC
1	Interchangeable Core	23-030	626	SC
1	Wall Stop	WS406/407CCV	US32D	IV
3	Door Silencer	SR64	GRY	IV

SET #2

Doors: 102A

6	Hinges	5BB1 4 1/2 x 4 1/2 NRP	652	IV
1	Steel Mullion	KR4954 7'6"	SP28	VO
1	Exit Device	QEL RX 98NL-OP x 110MD-NL 48"	US26D	VO
1	Exit Device	QEL RX 98EO 48"	US26D	VO
1	Interchangeable Core	23-030	626	SC
1	Cylinder	20-057	626	SC
1	Mortise Cylinder	20-001 1 1/8"	626	SC
2	Door Pull	8190HD-2 STANDARD MOUNT	US32D	IV
2	Closer	4040XP SCUSH	AL	LC
2	Electric Power Transfer	EPT 10	SP28	VO
1	Power Supply	PS902 900-2RS		VO
1	Mullion Seal	5100N-86 86"		NA
1	Weatherstrip	PS074 1 x 84" 2 x 84"	BLACK	VA01
2	Door Sweep	200 NA 38"		NA
1	Handicap Threshold	613 76"	AL	NA

NOTE: EXISTING DOORS AND FRAME TO REMAIN. RETRO-FIT HARDWARE TO EXISTING DOORS AND FRAMES. CARD READERS/KEYPADS AND BALANCE OF CONTROLLED ACCESS BY OTHERS.

SET #3

Doors: 102B, 105A

3	Hinges	5BB1 4 1/2 x 4 1/2 NRP	652	IV
1	Exit Device	QEL RX 98NL-OP x 110MD-NL 48"	US26D	VO
1	Interchangeable Core	23-030	626	SC
1	Cylinder	20-057	626	SC
1	Door Pull	8190HD-2 STANDARD MOUNT	US32D	IV
1	Closer	4040XP SCUSH	AL	LC
1	Electric Power Transfer	EPT 10	SP28	VO
1	Power Supply	PS902 900-2RS		VO
1	Weatherstrip	PS074 1 x 42" 2 x 84"	BLACK	VA01
1	Door Sweep	200 NA 42"		NA
1	Handicap Threshold	613 42"	AL	NA

NOTE: EXISTING DOOR AND FRAME TO REMAIN FOR 105A. RETRO-FIT HARDWARE FOR EXISTING DOORS AND FRAMES. CARD READERS/KEYPADS AND BALANCE OF CONTROLLED ACCESS BY OTHERS.

SET #4

Doors: 106A

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Mortise Storeroom Lockset	L9080T 06A 50-231	626	SC
1	Interchangeable Core	23-030	626	SC
1	Wall Stop	WS406/407CCV	US32D	IV
3	Door Silencer	SR64	GRY	IV

SET #5

Doors: 109A, 109B

1	Lockset	ND53T RHO 50-231	626	SC
1	Interchangeable Core	23-030	626	SC
1	Closer	4040XP SCUSH	AL	LC

NOTE: Pivots and gaskets by storefront supplier.

SET #6

Doors: 107A

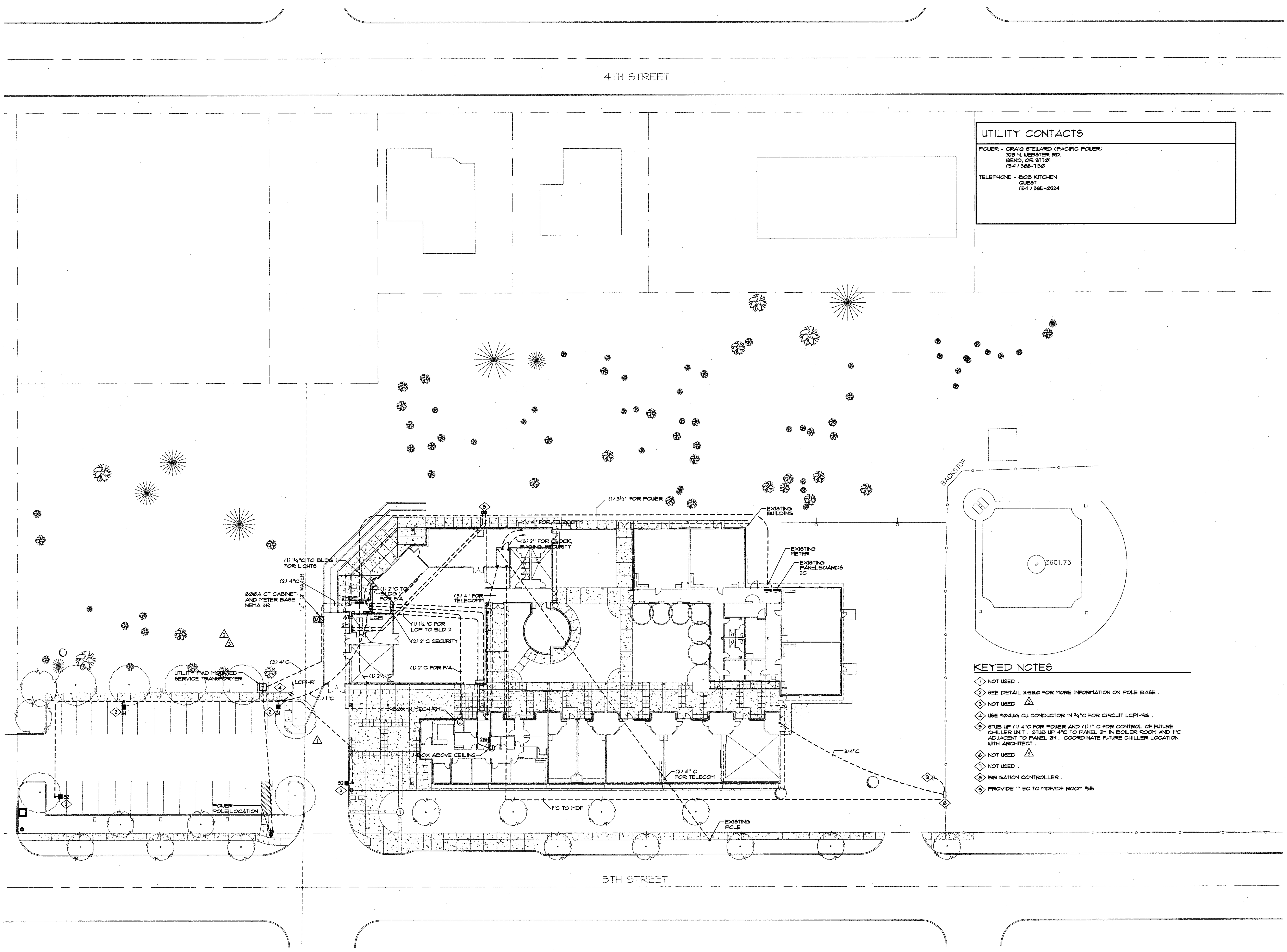
3	Hinges	5BB1 HW 4 1/2 x 4 1/2 NRP	652	IV
1	Mortise Storeroom Lockset	L9080T 06A 50-231	626	SC
1	Interchangeable Core	23-030	626	SC
1	Wall Stop	WS406/407CCV	US32D	IV
3	Door Silencer	SR64	GRY	IV

SET #7

Doors: 112A

3	Hinges	5BB1 4 1/2 x 4 1/2 NRP	652	IV
1	Exit Device	98EO 48"	US26D	VO
1	Closer	4040XP SCUSH	AL	LC
1	Weatherstrip	PS074 1 x 42" 2 x 84"	BLACK	VA01
1	Door Sweep	200 NA 40"		NA
1	Handicap Threshold	613 40"	AL	NA

625-1300-304


4TH STREET
5TH STREET
UTILITY CONTACTS
POWER - CRAIG STEWARD (PACIFIC POWER)
328 N. WEBSTER RD.
BEND, OR 97701
(541) 388-7130
TELEPHONE - BOB KITCHEN
QWEST
(541) 385-0224
(1) 3½" FOR POWER
(1) 4" FOR TELECOM
(3) 2" FOR CLOCK, PAGING, SECURITY
EXISTING BUILDING
EXISTING METER
EXISTING PANELBOARDS 2C
(1) 1¼"C TO BLDG 1 FOR LIGHTS
(2) 4"C
800A CT CABINET AND METER BASE NEMA 3R
(1) 2"C TO BLDG 1 FOR F/A
(3) 4" FOR TELECOMM
(1) 1¼"C FOR LCP TO BLDG 2
(2) 2"C SECURITY
(1) 2"C FOR F/A
UTILITY PAD MOUNTED SERVICE TRANSFORMER
(3) 4"C
LCP1-R1
(1) 1"C
J-BOX IN MECH RM
J-BOX ABOVE CEILING
(2) 4"C FOR TELECOM
1"C TO MDF
3/4"C
POWER POLE LOCATION
EXISTING POLE
BACKSTOP
3601.73
KEYED NOTES
1 NOT USED .
2 SEE DETAIL 3/E8.0 FOR MORE INFORMATION ON POLE BASE .
3 NOT USED
4 USE #10AWG CU CONDUCTOR IN ¾"C FOR CIRCUIT LCP1-R6 .
5 STUB UP (1) 4"C FOR POWER AND (1) 1" C FOR CONTROL OF FUTURE CHILLER UNIT . STUB UP 4"C TO PANEL 2M IN BOILER ROOM AND 1"C ADJACENT TO PANEL 2M . COORDINATE FUTURE CHILLER LOCATION WITH ARCHITECT .
6 NOT USED
7 NOT USED .
8 IRRIGATION CONTROLLER .
9 PROVIDE 1" EC TO MDF/IDF ROOM #315

1 E1.0 ELECTRICAL SITE PLAN
1" - 20'-0"

NORTH

RECORD DRAWINGS AS REPORTED

Documents have been revised based solely on Record Working Drawings supplied by the Contractor and the Contract Documents. They do not necessarily show all existing conditions and may not be accurate at all locations. Field verify existing and/or hidden conditions prior to commencement of new work.

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MARSHALL H.S. ADDITION/REMODEL

Bend La Pine School District
1291 NE 5th Street Bend, OR 97701
541.383.6085

key plan

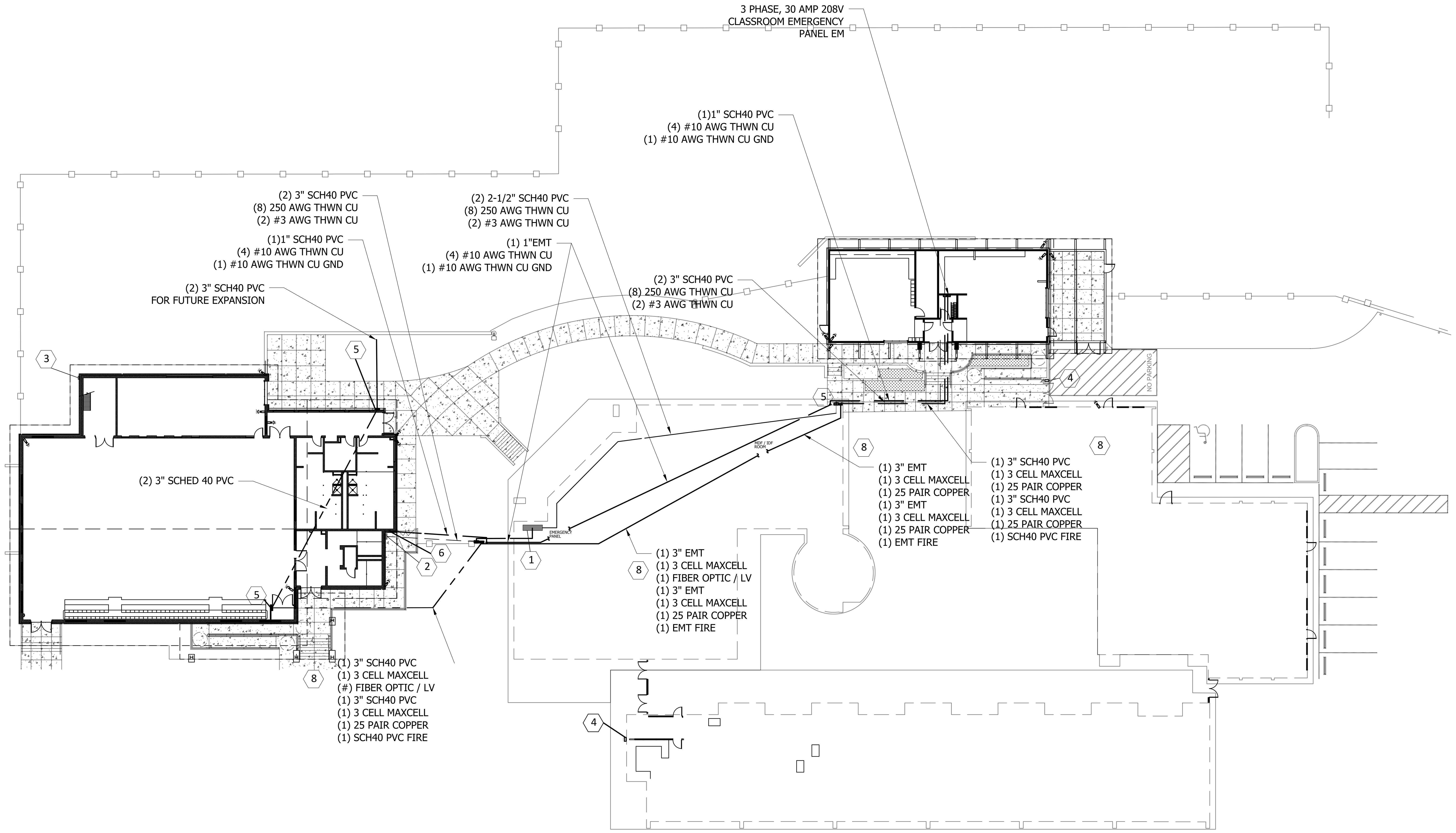
phase	RECORD SET
date	11.01.05
revisions	
1 ASI #12 03/08/04	
2 ASI #14 03/19/04	
project #	02030

ELECTRICAL SITE PLAN

E1.0

CONFORMANCE SET
JUNE 20, 2019
RECORD DRAWINGS ARE BASED SOLELY ON THE CONTRACT DOCUMENTS AND UPON INFORMATION PROVIDED BY THE CONTRACTOR. DKA ARCHITECTURE & DESIGN, P.C. HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY. AS A RESULT DKA ARCHITECTURE & DESIGN, P.C AND IT'S CONSULTANTS HAVE NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION IN THE DRAWINGS.

625-1400-302



SITE PLAN: POWER & LOW VOLTAGE ROUTING

N

SCALE: 1:20

0 20' 40'

GENERAL NOTES
1. PROVIDE NETWORK DATA DROP AT ALL CAMERA LOCATIONS ORIGINATING IN THE MAIN IT ROOM.
2. CONDUIT RUNS TO NEW BUILDINGS CONTAIN TRANSITIONS FROM PVC TO EMT. SITE DRAWING CONDUIT RUNS AND JUNCTION BOXES ARE A REPRESENTATION ONLY. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ESTIMATING, PROVIDING, AND INSTALLING ACTUAL EQUIPMENT NEEDED. COORDINATE WITH GENERAL CONTRACTOR.
3. REFER TO E5.00 ONE LINE DIAGRAM. PROVIDE LISTED RACEWAYS, ELECTRICAL PANELS, AND CONDUCTORS TO EACH BUILDING FROM EMERGENCY BACK UP ELECTRICAL PANEL.
4. UNLESS OTHERWISE NOTED, CAMERAS WILL NOT BE OMNI-DIRECTIONAL.. EACH REQUESTED CAMERA IS SHOWN ON DRAWINGS.
5. DISCONNECTS WILL HAVE A MEANS OF LOCKING OUT UNAUTHORIZED PERSONNEL FROM ACCESSING DISCONNECT.
6. DO NOT EXCEED A LENGTH OF 300 FEET FOR CAT 6 CABLE RUNS. COORDINATE WITH OWNERS REPRESENTATIVE IF ANY LENGTH OF CAT 6 CABLE APPEARS TO EXCEED 300' PRIOR TO INSTALLING CABLE.

EQUIPMENT NOTES
1. EXISTING MDP
2. 400 AMP, 3 PHASE, 208V SERVICE DISCONNECT.
3. FUTURE CAMERA LOCATION. INSTALL 2 GANG BOX WITH COVER, CONDUIT, & 500# PULL STRING TO IT ROOM. COORDINATE COLOR OF COVER WITH GC.
4. FUTURE KEY FOB READER LOCATION. INSTALL 2 GANG BOX WITH COVER, CONDUIT, & 500# PULL STRING TO IT ROOM. COORDINATE COLOR OF COVER WITH GC. PROVIDE 120V POWER TO EACH LOCATION.
5. PULL BOXES. SIZE IN ACCORDANCE WITH OESC 314.28.
6. 30 AMP, 3 PHASE 208V EMERGENCY SERVICE DISCONNECT.
7. INSTALL SURFACE MOUNT CONDUIT FROM MDP, ALONG THE EAST SIDE OF THE WEST UTILITY YARD WALL TO JUNCTION BOX. INSTALL UNDERGROUND SCHEDULE 40 PVC CONDUIT FROM JUNCTION BOX TO GYMNASIUM DISCONNECT. INSTALL ALL OTHER NECESSARY CONDUITS BETWEEN MAIN BUILDING AND GYMNASIUM IN SAME MANNER.
8. FIRE ALARM WILL BE DESIGN BUILD. COORDINATE FIRE ALARM CONDUIT SIZE AND LOCATION WITH FIRE ALARM CONTRACTOR. (BASE CONTRACT)

CS ENGINEERING
63033 PLATEAU DRIVE BEND, OREGON 97701 PH: 541-420-4464

DKA ARCHITECTURE & DESIGN
DKA Architecture & Design, P.C.
700 NW York Drive, Suite 201
Bend, Oregon 97703
phone: 541-383-1898
website: dkaarch.com

Marshall High School
New Gymnasium and Facility Addition and Renovation

1291 NE 5th Street,
Bend, OR 97701
Project Manager: Hal Beumel

Bend LaPine School District
520 NW Wall Street
Bend, Oregon 97701
541-383-6000

DRAWINGS ISSUED
PERMIT SET 2018-01-26
BID SET 2018-02-21
1 ADDENDUM 1 2018-03-12
PR-03 2018-05-24

DRAWINGS
SITE PLAN -POWER DISTRIBUTION

SCALE: 1:20

DATE MARCH 12,2018

SHEET

E1.00

EXISTING SPLIT SYSTEM COOLING

MARK	SERVING	COOL MBH		TONS	CFM	ESP	V/PH	UNIT MCA/MFA	SEER	WT LBS	MAKE & MODEL	NOTES
		TC	SC									
(E)OAC-500	IDF ROOM 106	12	9.1	1	1050	-	208/1	8/15	19	62	DAIKIN RK12AXVJU	1,2
(E)IAC-500				1	440	-	-	-	-	22	DAIKIN FTK12AXVJU	

NOTES:
1. RELOCATE EXISTING FAN COIL, THERMOSTAT, AND CONDENSATE PUMP TO IDF ROOM. ROUTE CONDENSATE TO NEAREST APPROVED RECEPTACLE.
2. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. RECHARGE SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.

EXHAUST FANS

MARK	SERVING	CFM	ESP	SONES	MOTOR		FAN RPM	WT LBS	MAKE & MODEL	NOTES
					V/PH	HP				
EF-1	BOYS RR 111	110	0.25	1.3	120/1	1/60	960	15	GREENHECK SP-A90-130-VG	1
EF-2	GIRLS RR 110	110	0.25	1.3	120/1	1/60	960	15	GREENHECK SP-A90-130-VG	1

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER, VARI-GREEN MOTOR, INTERLOCK WITH LIGHTS.

WALL CONVECTORS

MARK	SERVING	HEATING WATER COIL					MAKE & MODEL	NOTES
		HEAT MBH	EAT	EWT	LWT	GPM	PD FT		
CV-1	HALL 112	6.1	65	140	130	1.2	0.17	WALLFIN SFG-A 8-48-32	1
CV-2	HALL 105	6.1	65	140	130	1.2	0.17	WALLFIN SFG-A 8-48-32	1

NOTES:
1. PROVIDE WITH 2-WAY MODULATING CONTROL VALVE, ACTUATOR PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.

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UNIT VENTILATORS

MARK	SERVING	AIRFLOW			HEATING WATER COIL							ELECTRICAL		WT LBS	MAKE & MODEL	NOTES
		SA CFM	OA CFM	MOTOR HP	HEAT MBH	EAT	LAT	EWT	LWT	GPM	ROWS	PD FT	V/PH	UNIT MCA/MOCP			
UV-1	CLASSROOM 100	1250	430	1/4	60	47	98	140	107	3.5	2	1.7	115/1	9/15	450	TRANE VUVE125	1,2,3,4
UV-2	CLASSROOM 101	1250	430	1/4	60	47	98	140	107	3.5	2	1.7	115/1	9/15	450	TRANE VUVE125	1,2,3,4
UV-3	CLASSROOM 103	1250	430	1/4	60	47	98	140	107	3.5	2	1.7	115/1	9/15	450	TRANE VUVE125	1,2,3,4
UV-4	CLASSROOM 104	1250	430	1/4	60	47	98	140	107	3.5	2	1.7	115/1	9/15	450	TRANE VUVE125	1,2,3,4

NOTES:
1. PROVIDE WITH ECM MOTOR, FALSEBACK OPTION, NEW OUTSIDE AIR LOUVER, DELUXE PIPING PACKAGE WITH CIRCUIT SETTER, 2-WAY MODULATING CONTROL VALVE, MERV-8 FILTER.
2. ~~PROVIDE WITH STONE GRAY FINISH.~~
3. PROVIDE WITH MODULATING OA CONTROL DAMPER FOR DEMAND CONTROL VENTILATION AND ECONOMIZER OPERATION. ACTUATOR PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.

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FAN COIL UNITS

MARK	SERVING	AIRFLOW				HEATING WATER COIL							ELECTRICAL		WT LBS	MAKE & MODEL	NOTES
		SA CFM	OA CFM	ESP	MOTOR HP	HEAT MBH	EAT	LAT	EWT	LWT	GPM	ROWS	PD FT	V/PH	UNIT MCA/MOCP			
FCU-1	HALL & TEAM ROOM	800	250	0.4"	1/2	40	49	98	140	105	2	2	2.3	208/1	6/15	180	TRANE BCHE024	1,2,3

NOTES:
1. PROVIDE WITH ECM MOTOR, VALVE KIT WITH CIRCUIT SETTER AND STRAINER, 2-WAY MODULATING CONTROL VALVE, MERV-8 FILTER.
2. PROVIDE WITH OA CONTROL DAMPER. ACTUATOR PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.

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VENTILATION REQUIREMENTS

TAG	SERVING	PEOPLE	@	CFM/PERSON	+	AREA	@	CFM/SQ.FT.	/	Ez	=	CFM OSA
FCU-1	TEAM/COLLAB 109	9	@	10	+	250	@	0.12	/	0.8	=	150
(E)FU-4	HALL 105	0	@	0	+	310	@	0.06	/	0.8	=	24
(E)FU-4	HALL 102	0	@	0	+	575	@	0.06	/	0.8	=	44
(E)FU-4	HALL 112	0	@	0	+	260	@	0.06	/	0.8	=	20
										FCU-1 OA REQ:		**238**
UV-1	BUSINESS CLASSROOM 100	32	@	10	+	910	@	0.12	/	1	=	430
										UV-1 REQ:		**430**
UV-2	CTE CLASSROOM 101	32	@	10	+	910	@	0.12	/	1	=	430
										UV-2 REQ:		**430**
UV-3	CTE CLASSROOM 103	32	@	10	+	915	@	0.12	/	1	=	430
										UV-3 REQ:		**430**
UV-4	CTE CLASSROOM 104	32	@	10	+	915	@	0.12	/	1	=	430
										UV-4 REQ:		**430**

AIR DISTRIBUTION

MARK	TYPE	MAKE & MODEL	REMARKS
RG-1	RETURN	TITUS PAR	24X24 PERFORATED FACE RETURN, MATCH FRAME TO CEILING TYPE, NECK SIZE AS INDICATED
SD-1	SUPPLY	TITUS PAS	24X24 PERFORATED FACE DIFFUSER, MATCH FRAME TO CEILING TYPE, NECK SIZE AS INDICATED
SD-2	SUPPLY	TITUS 300RL	DOUBLE DEFLECTION LOUVERED FACE SUPPLY WITH OBD, SIZE AS INDICATED
SD-3	SUPPLY	TITUS FL-15	LINEAR DIFFUSER, HIGH-THROW PATTERN CONTROLLER WITH TITUS PLENUM, 1-SLOT, 1" SLOT, 8" INLET, 4 FOOT LENGTH, MATCH FRAME TO CEILING TYPE.

NOTES:
1. MAY PROVIDE EQUIVALENT EQUIPMENT FROM NAILOR, PRICE, SHOEMAKER.

BBT ARCHITECTS
1140 sw Simpson Ave. - Suite 200
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MARSHALL HIGH SCHOOL REMODEL

1291 NE 5th St
BEND, OR 97701

No.	Description	Date
1	ADDENDUM 1	05/01/23

Project Number 20220540
Date 04/10/2023

BID ISSUE

MECHANICAL - SCHEDULES

M002