ADDENDUM CC-2

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February 2, 2012

PLAYER DEVELOPMENT AREA - UNIVERSITY OF OREGON
CONFORM SET:
Drawings and Specifications for Combined Contract (CC) Dated January 12, 2012

NOTICE TO BIDDERS: Amend the Project Manuals and Drawings to the above-referenced project as follows:

CLARIFICATIONS

ITEM NO. 1 BID OPENING DATE:

A. Bid Opening Date has been changed to Thursday, February 9, 2012 at 1:30 p.m.

ITEM NO. 2 FLOOD INSURANCE

A. Owner acknowledges successful Contractor may be required to procure flood insurance in order to perform the work. Owner will negotiate costs of flood insurance with the successful contractor post-bid. Flood insurance costs are exempt from inclusion in the bid. See Item No. 27 below as well as Attachment No. SP-2.

GENERAL QUESTIONS

ITEM NO. 3 QUESTION:

Section 210548, 1.4.A & 1.5.B calls for a PE seal on seismic bracing calculations. Section 211000, 1.6.A.1 & MP0.0, Plumbing & Fire Protection Notes, Note Z calls for PE preparation of plans, calcs and test reports. The City of Eugene does not require any of this for fire sprinkler system approval. Can these spec requirements be deleted?

Answer: No.

ITEM NO. 4 QUESTION:

Section 211000, 1.3.A defines “standard weight pipe” as Schedule 40. Section 211000, 2.4.A & 3.2.A/B lists only “standard weight” black or galvanized steel pipe. Are schedule 10 and/or other proprietary piping materials that are UL listed/FMG approved for fire sprinkler systems acceptable?

Answer: Schedule 40 piping is required.

ITEM NO. 5 QUESTION:

MP0.0, Plumbing & Fire Protection Notes, Note AE states that a sprinkler alarm check valve is required. It is not required by NFPA 13 or the City of Eugene. Can the alarm check valve be deleted?

Answer: No.

ITEM NO. 6 QUESTION:

Will an auxiliary anti-freeze system off of the building wet system be acceptable for protection of the covered exterior bull pen area on the north side of the building?

Answer: Because a dry pipe sprinkler specification has been added to the contract documents (see this Addendum), an anti-freeze system will not be allowed.

ITEM NO. 7 QUESTION:

The Bid Form needs to have Add Alternates #1-3 added?

Answer: See revised bid form, **Attachment No. SP-3** to this Addendum.

ITEM NO. 8 QUESTION:

The Fire Protection is missing the "Dry-Pipe System" spec for under the canopy?

Answer: See **Attachment SP-4** to this Addendum.

ITEM NO. 9 QUESTION:

A sectional cut thru the skylight showing the inner and outer curb and flashing detail would be nice?

Answer: An insulated single wall curb is required. Its design is part of the metal building deferred submittal. See also revision to Metal Building section, as addressed under the Project Manual heading in this Addendum. The requirement for a double-wall insulated curb has been deleted. The addition of Roof General Notes

provides more clarification. For the latter see revision to A4.1, as shown in **Attachment No. A5** to this Addendum.

ITEM NO. 10 QUESTION:

Is there any Signage on this project? I see a spec, but no scope?

Answer: See revisions to 3.2.A. in Section 101419, as described in a subsequent item found in this Addendum. See also revisions to drawings A5.1 and A5.2, as shown in **Attachment Numbers A6 & A7** to this Addendum.

ITEM NO. 11 QUESTION:

The East & West Architectural Elevations show the UofO O-Logo. What is this? Is this painted on??

Answer: See Response to item #9 to this Addendum.

ITEM NO. 12 QUESTION:

What is the required support for the GWB ceiling at the riser rm?

Answer: See revisions to drawings A1.1, A5.2, and detail 22 on sheet A10.1, as shown in **Attachment Numbers A4, A7, & A12** to this Addendum.

ITEM NO. 13 QUESTION:

There is a bit of mystery on the scope of the Impact Padding. Could you please list the columns that are reqd to have them? If I had to guess, it would be the 6 exterior canopy columns and the 15 interior columns inside the building (with the exception of the one in the riser room)?

Answer: Padding for the columns is required only on the exterior columns, which are located in the bull pen area. See revisions to drawings A1.1, A5.1, A5.2, and A5.3 as shown on **Attachment Numbers A4, A6, A7, & A8** to this Addendum.

ITEM NO. 14 QUESTION:

Roof insulation calls for R-24 Thermax, drawings show Thermax with a batt insulation. If R-24 is the desired value , the thermax is all that's needed.

Answer: Yes.

ITEM NO. 15 QUESTION:

Horizontal siding panels will have joints, is there a detail for what the architect wants to see. Maybe a vertical cover, panels break at the same place?

Answer: See revisions to drawings A5.1, A5.2, and A5.3 (**Attachment Numbers A6, A7, & A8** to this Addendum), which now show the vertical joint locations.

ITEM NO. 16 QUESTION:

The R-20 value required for wall type #1 needs be defined more, what type of rigid board insulation has a R2.7?

Answer: See revision to 2.2.E, Section 133349 in this Addendum.

ITEM NO. 17 QUESTION:

Is AWI Panel FL-40 an acceptable alternate for Panel Type 1. AWI Panel FL-40 is a 40" wide panel?

Answer: No.

ITEM NO. 18 QUESTION:

In order to provide insulated panels in the custom colors, we would need 6-8 week additional lead time to mix the custom colors and bake the panels. In addition, there is a minimum 5000 pound order PER color. [Note: the specified "standard" colors are custom to any manufacturer other than Butler]

Answer: Except for Type 3, the basis of design for panel colors is Butler Building System. Other manufacturer standard colors that closely approximate the Butler colors are acceptable. Manufacturers that cannot closely approximate the basis of design shall provide a custom color similar to the selected color.

ITEM NO. 19 QUESTION:

The other choice is to provide the panels in grey and have each individual color field painted. Is it acceptable to field paint the metal panels provided the grey panel is a Kynar finish and stippled for a field paint application?

Answer: No.

ITEM NO. 20 QUESTION:

Wire sizes 14, 12, 10 and 8 shall be stranded only per UO standards?

Answer: Yes, electrical specification 260519 has been revised. See Addendum 2.

ITEM NO. 21 QUESTION:

Who is going to provide the intrusion detection system?

Answer: An intrusion detection system is not part of the scope. See revisions to Electrical drawings.

ITEM NO. 22 QUESTION:

Is one bay of x-bracing acceptable at Frame line 1, 5, & 8?

Answer: An X-bracing or portal frames are acceptable at building wall lines, provided that they do not interfere with doors or other wall openings. See architectural drawings. Bracing will not be allowed on grid 6 or on grids A and E between grid 5 and 6 (bullpen area).

ITEM NO. 23 QUESTION:

Is one bay of bracing acceptable at Grid line A & E?

Answer: Single bays of bracing in the building walls are acceptable along grids A and E provided that rigid frames are installed on all other grid lines.

ITEM NO. 24 QUESTION:

The existing wall along GL 6 will need to be cut out at the (5) new footing locations. What I was trying to figure out is the height of that wall and if there is a footing that will need to be saw cut out of there in addition to the wall. The note on S1.1 says to provide rebar dowels between the old and new construction, but doesn't specify size and spacing. If a detail could be provide in the addendum that would be great?

Answer: The Contractor shall reconstruct the wall as it exists and to provide rebar dowels for each of the bars shown that are interrupted, embedded 3 ½" into the existing concrete with epoxy adhesive. See section for the baseball park perimeter walls as shown in **Attachment S-1** to this Addendum.

ITEM NO. 25 QUESTION:

Could you also provide details for relocated fence post? Will these need to be cored and grouted and if so what is the size and depth of the core?

Answer: The wall will need to have cast in sleeves for the fence posts. The suggested size is 3" diameter by 12" deep. The posts are to be grouted into place.

PROJECT MANUAL VOLUME 1 OF 1

ITEM NO. 26 SECTION 001113 NOTICE OF RETAINER CONTRACT OPPORTUNITY

A. Delete Section 001113 and replace with revised section as shown in **Attachment No. SP-1**. Revision: hanged bid opening time and date from 11:00 a.m. on Tuesday, February 7, 2012 to 1:30 p.m. on Thursday, February 9, 2012.

ITEM NO. 27 SECTION 002213B SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

A. Delete Section 002213B and replace with revised section as shown in **Attachment No. SP-2**. Revision: added Article 12. Insurance.

ITEM NO. 28 SECTION 004113A BID FORM

A. Delete Section 004113A and replace with revised section as shown in **Attachment No. SP-3**. Revisions: 1) changed bid opening time and date from 11:00 a.m. on Tuesday, February 7, 2012 to 1:30 p.m. on Thursday, February 9, 2012, and 2) added line for Alternate No. 4.

ITEM NO. 29 SECTION 012300 ALTERNATES

A. Add new paragraph 3.1.D as follows:

D. Alternate No. 4:
1. New paving and landscape modifications to the south of the Player Development Area building. See drawings AS1.1 and AS1.2 added by Addendum CC-2 dated February 2, 2012.

ITEM NO. 30 SECTION 087100 DOOR HARDWARE

A. At 3.7 Door Hardware Sets, replace "HW SET: 02" in its entirety with the following:

HW SET: 02

DOOR NUMBER:
100A

EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	98NL	626	VON
~~3~~		~~SPECIAL SCREWS~~	~~10-24 X 1-1/4" FHMS (FOR STRIKE MOUNTED ON SEAL)~~		
1	EA	RIM CYLINDER	20-057-ICC	626	SCH
			PERMANENT CYLINDER CORE(S) BY OWNER		
1	**EA**	**ELECTRIC STRIKE**	**6111 FSE 24VDC**	**630**	**VON**
1	EA	SURFACE CLOSER	4041 SCUSH X ST1586	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	SET	SEALS	700SA (HEAD & JAMBS)	628	NGP
1	EA	DRIP CAP	16A (OMIT IF OPENING IS PROTECTED)	628	NGP
1	EA	DOOR SWEEP	C627A	628	NGP
1	EA	THRESHOLD	425 MS/LA	AL	NGP
1	**EA**	**DOOR POSITION SWITCH**	**679-05 HM**		**SCE**
1	**EA**	**SCANNER**	**SCAN II-W**	**WHT**	**SCE**
			ACCESS CONTROL BY OTHERS		
			POWER SUPPLY BY OTHERS		

NOTE: INSTALL PERIMETER SEALS BEFORE EXIT DEVICE, STRIKE, AND CLOSER. DO NOT NOTCH SEALS. STRIKE AND CLOSER INSTALL ON TOP OF SEALS. ADJUST TEMPLATES ACCORDINGLY.

ITEM NO. 31 SECTION 101419 DIMENSIONAL LETTER SIGNAGE

A. At paragraph 3.2.A replace text with the following: "Provide individual character font, color, spacing and thickness for the "O" sign as indicated on sheets A5.1, A5.2. and as described below:"

ITEM NO. 32 SECTION 133349 METAL BUILDING SYSTEMS

A. Delete paragraph 2.2.A and replace with the following:

A. Basis-of-design Product: Subject to compliance with requirements, provide either Butler Manufacturing VSR II roof system or Butler Manufacturing CMR-24 standing seam roof system with integrated, insulated panel, and finished interior face.

B. At 2.2.E. delete sub-paragraphs 1 - 7 and replace with the following:

1. Rigid “Thermax” Metal Building Board glass-fiber-reinforced, polyisocyanurate foam plastic core. Combine with Batt insulation per the building details to meet minimum thermal performance:
   a. Thermal Performance: Per OEESC 2010, 502.1.3, at all exterior walls provide minimum R-19 cavity insulation and minimum R-2.7 continuous insulation. At standing seam metal roof provide minimum R-23 cavity insulation.
2. Width: 4 feet.
3. Maintain Class A fire rating.
4. Approved for use without thermal barrier.
5. Maximum Thickness: 4 inches.
6. Covered with embossed aluminum facing both sides - Metal Building Board.

C. At 2.2.L.1 add. sub-paragraph "a." with the following text: "Roof Curbs: All curbs shall be single wall and insulated. If loading on curbs exceeds 2000 pounds, provide double-wall insulated curbs".

ITEM NO. 33 SECTION 211316 DRY PIPE SPRINKLER SYSTEMS

A. Add Section 0211316 as shown in **Attachment SP-4** to this Addendum.

ITEM NO. 34 SECTION 260519 PARAGRAPH 3.1 A AND B

A. Replace solid wire with stranded wire for No. 14, 12, 10 AWG per UO standards.

DRAWINGS

ITEM NO. 35 DRAWING C2.0 – UTILITY PLAN

A. At Note 2 add the following text to the end of the existing note: “Replace concrete pavement and base rock section to existing thicknesses.

B. At Note 3 add the following text to the end of the existing note: “Replace asphalt pavement and base rock section to existing thicknesses.”

ITEM NO. 36 DRAWING D1.1 – DEMOLITION PLAN

A. Revise this drawing as shown in **Attachment No. A1** to this Addendum.

ITEM NO. 37 DRAWING D1.1 – DEMOLITION PLAN

A. Revise this drawing as shown in **Attachment No. A2** to this Addendum.

ITEM NO. 38 DRAWING A0.1 – GENERAL NOTES, SYMBOLS & ABBREVIATIONS

A. Revise this drawing as shown in **Attachment No. A3** to this Addendum.

ITEM NO. 39 DRAWING A1.1 – FLOOR PLAN

A. Replace this drawing as shown in **Attachment No. A4** to this Addendum.

ITEM NO. 40 DRAWING A4.1 – ROOF PLAN – BASE BID & ALTERNATE 2

A. Revise this drawing as shown in **Attachment No. A5** to this Addendum.

ITEM NO. 41 DRAWING A5.1 – BUILDING ELEVATIONS & SECTION

A. Replace this drawing as shown in **Attachment No. A6** to this Addendum.

ITEM NO. 42 DRAWING A5.2 – BUILDING ELEVATIONS & INTERIOR ELEVATION

A. Replace this drawing as shown in **Attachment No. A7** to this Addendum.

ITEM NO. 43 DRAWING A5.3 – BUILDING SECTION AND ELEVATION - ALTERNATES

A. Replace this drawing as shown in **Attachment No. A8** to this Addendum.

ITEM NO. 44 DRAWING A9.1 – SCHEDULE AND DETAILS

A. Revise this drawing as shown in **Attachment No. A9** to this Addendum.

ITEM NO. 45 DRAWING A9.1 – SCHEDULE AND DETAILS

A. Revise this drawing as shown in **Attachment No. A10** to this Addendum.

ITEM NO. 46 DRAWING A9.1 – SCHEDULE AND DETAILS

A. At Door 100F in the Door and Frame Schedule, delete "3" from the Notes Column.

ITEM NO. 47 DRAWING A10.1 – BUILDING DETAILS

A. Add detail 12 to this drawing as shown in **Attachment No. A11** to this Addendum.

ITEM NO. 48 DRAWING A10.1 – BUILDING DETAILS

A. Add detail 22 to this drawing as shown in **Attachment No. A12** to this Addendum.

ITEM NO. 49 DRAWING AS1.1 - SITE PLANS - ALTERNATE 4

A. Insert new sheet AS1.1 as shown in **Attachment No. A13** to this Addendum.

ITEM NO. 50 DRAWING AS1.2 - SITE PLANS AND DETAILS - ALTERNATE 4

A. Insert new sheet AS1.2 as shown in **Attachment No. A14** to this Addendum.

ITEM NO. 51 DRAWING S1.1 - FOUNDATION PLAN

A. Add detail 4/L12 to this drawing as shown in **Attachment No. S-1** to this Addendum.

ITEM NO. 52 DRAWING ES1.0 - ELECTRICAL SITE PLAN

A. Add fiber optic, connections, and required conduits for wireless hub as shown on **Attachment E5**.

ITEM NO. 53 DRAWING E1.1 - ELECTRICAL PLAN

A. Add exit sign above door for new exterior door as shown on **Attachment E1**.

B. Add fire alarm manual pull station next to new exterior door as shown on **Attachment E1**.

C. Relocate exterior wall pack H1X above new exterior door as shown on **Attachment E1**.

D. Align fixtures in Bull Pen as shown on **Attachment E2**.

E. Delete door contacts for door 100.

F. Replace key pad for door 100A with stand alone card reader system: Honeywell Indala Series Model #FP610/710/810 Flex Pass mid-range. Revise note 18 as shown on **Attachment E3**.

G. Provide duplex receptacle and AV outlet for Plasma Monitor @ +60" AFF as shown as shown on **Attachment E3**.

H. Provide quad receptacle for AV rack as shown on **Attachment E1**. Add note 19 as shown on Attachment E3.

I. (3) speakers will be supported by corner shelves as shown on Architectural plan A1.1 and (1) speaker (symbol SP) will be located above fire riser room as shown on **Attachment E3**.

J. Add access control detail as shown on **Attachment E4**.

SUBSTITUTIONS

The approval of the substitution requests noted below is contingent upon the requested manufacturer meeting all aspects of the performance of the originally specified products. Post-bid discovery that the requested manufacturer cannot provide a product of equal performance or cannot provide a product with all of the identified features and hence the rejection of the product, shall not result in a change in contract to the Owner. In no case are models being approved at this time, regardless of whether that information was included in the substitution request or not – only manufacturers are being reviewed and approved at this time.

Neither DLR Group nor the University of Oregon warrant that all Substitution Requests submitted will be reviewed. Additionally, incomplete, unclear, or untimely requests were not considered.

The following are approved:

Drawing	Component	Alternate Brand
E6.1 Luminaire Schedule	F1A	HEW 92-4-232-A-WET/1-SSMB-EB2-UNV (Williams)
E6.1 Luminaire Schedule	F1B	GUTH FS-6F32-A-W-277-2EB-MB (Guth)
E6.1 Luminaire Schedule	F1BX	GUTH FS-6F32-A-W-277-2EB-MB (1) B50ST** (Guth)
E6.1 Luminaire Schedule	H1X	LSI GBWS FTM 42 CFL F 277 BLK CWBB* (REMOTE THE EM BALLAST) (Greenbriar)
E6.1 Luminaire Schedule	XI	EmergiLite BA-SVXN-1-G-D-4X (EmergiLite)
E6.1 Luminaire Schedule	X2	EmergiLite BA-SVXN-1-G-D-4X (EmergiLite)
E6.1 Luminaire Schedule	X3	EmergiLite BA-SVXN-2-G-D-4X (EmergiLite)

END OF ADDENDUM NO. CC-2

OREGON UNIVERSITY SYSTEM

NOTICE OF RETAINER CONTRACT OPPORTUNITY

The Oregon University System (OUS) is accepting sealed bids for a public improvement project at University of Oregon, Capital Construction Conference Room, 1295 Franklin Boulevard, Eugene, Oregon until 1:30 PM, Pacific Standard Time, Thursday, February 9, 2012 for the PK Park Player Development Area (PDA) Building project located on the campus of the University of Oregon, in Eugene, Oregon. The project includes a new metal building to be constructed at the existing PDA at PK Park. Project includes, but is not limited to, protection of existing FieldTurf surface, new footings, metal building, lighting, heat, and batting cage netting. On site construction can start no earlier than the week of June 4th, 2012, and substantial completion is to be July 27th, 2012.

A **mandatory pre-bid conference and examination of the site and conditions** will be conducted at 10:00 am, January 20th, 2012. Bidders shall meet with OUS Representative at PK Park Fowl Territory near right field for that purpose. For parking, enter at Gate 5 off Leo Harris Parkway and park in the paved area to the left closest to the loading dock. Attendance will be documented through a sign-in sheet prepared by the OUS representative. Prime bidders who arrive more than 5 minutes after start of time of the meeting (as stated in the solicitation and by the OUS representative's watch) or after the discussion portion of the meeting (whichever comes first) shall not be permitted to sign in and will not be permitted to submit a bid on the project.

Bids will be opened and publicly read aloud on February 9, 2012 at 1:30 PM, at University of Oregon, Capital Construction Conference Room, 1295 Franklin Boulevard, Eugene, Oregon by the OUS representative or designee.

Bids will be received on a lump-sum basis for all of the work. Bid packets may be purchased at Central Print in Eugene, Oregon.

Bid packets may be examined at UO Capital Construction Office at 1295 Franklin Boulevard, Eugene, OR and DLR Group (architect) at 421 SW Sixth Avenue, Suite 1212, Portland OR. Bid packets may be examined after January 16, 2012.

All bidders must comply with requirements of the prevailing wage law in ORS 279C.800 through ORS 279C.870. All bidders must be registered with the Construction Contractor's Board at the time of bid submission. No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the Bid Form provided. OUS encourages bids from Minority, Women, and Emerging Small Businesses.

OREGON STATE BOARD OF HIGHER EDUCATION

By: Jamie Moffitt
Vice President for Finance & Administration

OREGON UNIVERSITY SYSTEM

STANDARD PUBLIC IMPROVEMENT CONTRACT

SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

Project Name PK Park Player Development Area

The following modify the Oregon University System "Instructions to Bidders" for this procurement. Where a portion of the Instructions to Bidders has been modified by these Supplemental Instructions to Bidders, the unaltered portions shall remain in effect.

Article 12. Insurance

Owner acknowledges that the project's location exists on a designated flood plain; therefore, the successful bidder may be required by their insurance provider to procure flood insurance in order to perform the work. These flood insurance costs are exempt from inclusion in the bid. Flood insurance will be negotiated with the successful Contractor post-bid.

OREGON UNIVERSITY SYSTEM

RETAINER CONTRACT

BID FORM

OUS CAMPUS: University of Oregon

PROJECT: PK Park Player Development Area

BID CLOSING: Thursday, February 9th, 2012 at 1:30 PM

FROM: _____
Name of Contractor

TO: Oregon State Board of Higher Education
University of Oregon – Capital Construction Office
1295 Franklin Blvd.
1-541-346-8292

1. The Undersigned (*check one of the following and insert information requested*):

____a. An individual doing business under an assumed name registered under the laws of the State of _____; or

____b. A partnership registered under the laws of the State of _____; or

____c. A corporation organized under the laws of the State of _____; or

____d. A limited liability corporation organized under the laws of the State of _____;

hereby proposes to furnish all material and labor and perform all work hereinafter indicated for the above project in strict accordance with the Contract Documents for the Bid as follows:

Basic Bid _____

_____ Dollars ($_____)

Alternate No. 1_____

_____ Dollars ($_____)

Alternate No. 2_____

_____ Dollars ($_____)

Alternate No. 3_____

_____ Dollars ($_____)

Alternate No. 4_____

_____ Dollars ($_____)

and the Undersigned agrees to be bound by the following documents:

- NOPI – Contract Opportunity
- OUS Retainer Supplement Form
- OUS General Conditions
- Prevailing Wage Rates
- Plans and Specifications
- Instructions to Bidders
- Performance Bond and Payment Bond
- Supplemental General Conditions
- Payroll and Certified Statement Form
- Drawings and Details

• ADDENDA numbered ____ through____, inclusive *(fill in blanks)*

1A. GIFT IN KIND (OPTIONAL) – This project has requested that we provide an opportunity for bidders and their subcontractors (all tiers) to provide gifts in kind. Please include the dollar value that you wish to donate to the PK Park PDA addition on the bid form as noted below. This value will be deducted from your base bid resulting in your net bid for the project. All materials and equipment are to be as per plan and spec.

GIFT IN KIND DONATION_____($_____)
(This dollar amount shall be deducted by the University from your Bid in line 1 above to result in your net bid. Do not deduct your in-kind donation amount from line 1 above.)

2. The work shall be completed within the time stipulated and specified in Division 1, Section 01 10 00, of the Specifications.

3. The Undersigned agrees, if awarded the Contract, to execute and deliver to the Oregon State Board of Higher Education, within twenty (20) calendar days after receiving the Contract forms, an Agreement Form, and a satisfactory Performance Bond and Payment Bond each in an amount equal to one hundred (100) percent of the Contract sum, using forms provided by the Owner. The surety requested to issue the Performance Bond and Payment Bond will be:

_____.
(name of surety company - not insurance agency)

The Undersigned hereby authorizes said surety company to disclose any information to the Owner concerning the Undersigned's ability to supply a Performance Bond and Payment Bond each in the amount of the Contract.

4. The Undersigned certifies that: (1) This Bid has been arrived at independently and is being submitted without collusion with and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid designed to limit independent bidding or competition; and (2) The contents of the Bid have not been communicated by the Undersigned or its employees or agents to any person not an employee or agent of the Undersigned or its surety and will not be communicated to such person prior to the official opening of the Bid.

5. The undersigned **HAS, HAS NOT** (*circle applicable status*) paid unemployment or income taxes in Oregon within the past 12 months and **HAS, HAS NOT** (*circle applicable status*) a business address in Oregon.

6. The Undersigned agrees, if awarded a contract, to comply with the provisions of ORS 279C.800 through 279C.870 pertaining to the payment of the prevailing rates of wage.

7. Contractor's CCB registration number is _____. As a condition to submitting a bid, a Contractor must be registered with the Oregon Construction Contractors Board in accordance with ORS 701.035 to 701.055, and disclose the registration number. Failure to register and disclose the number will make the bid unresponsive and it will be rejected, unless contrary to federal law.

8. The successful Bidder hereby certifies that all subcontractors who will perform construction work as described in ORS 701.005(2) were registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time the subcontractor(s) made a bid to work under the contract.

9. The successful Bidder hereby certifies that, in compliance with the Worker's Compensation Law of the State of Oregon, its Worker's Compensation Insurance provider is

_____, Policy No. _____,
and that Contractor shall submit Certificates of Insurance as required.

10. Contractor's Project Manager for this project is: _____,

Office Phone: _____ Cell Phone: _____.

11. The Undersigned certifies that it has not discriminated against minority, women, or emerging small businesses in obtaining any subcontracts for this project.
By signature below, Contractor agrees to be bound by this Bid.

NAME OF FIRM _____

ADDRESS _____

_____

FEDERAL TAX ID _____

TELEPHONE NO _____

FAX NO _____

SIGNATURE 1) _____
Sole Individual

or 2) _____
Partner

or 3) _____
Authorized Officer of Corporation

(SEAL)

_____
Attested: Secretary of Corporation

Payment information will be reported to the IRS under the name and taxpayer ID # provided above. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

***** *END OF BID* *****

SECTION 211316 - DRY-PIPE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Pipes, fittings, and specialties.
2. Fire-protection valves.
3. Sprinkler specialty pipe fittings.
4. Sprinklers.
5. Alarm devices.
6. Pressure gages.
7. Electronic accelerator.

B. Related Sections:
1. Division 21 Section "Water-Based Fire-Suppression Systems" for wet-pipe sprinkler piping.

1.2 SYSTEM DESCRIPTIONS

A. Dry-Pipe Sprinkler System: Automatic sprinklers are attached to piping containing compressed air. Opening of sprinklers releases compressed air and permits water pressure to open dry-pipe valve. Water then flows into piping and discharges from sprinklers that are open.

1.3 PERFORMANCE REQUIREMENTS

A. Standard-Pressure Piping System Component: Listed for 175-psig minimum working pressure.

B. Delegated Design: Design sprinkler system(s), including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

1. Perform fire-hydrant flow test.

C. Sprinkler system design shall be approved by authorities having jurisdiction.

1. Maximum Protection Area per Sprinkler: Per UL listing.

D. Seismic Performance: Sprinkler piping shall withstand the effects of earthquake motions determined according to NFPA 13 and ASCE/SEI 7.

1.4 DEFINITIONS

A. Standard Weight Pipe: Schedule 40.

1.5 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For dry-pipe sprinkler systems. Include plans, elevations, sections, details, and attachments to other work, for engineering and architectural review.

1. Wiring Diagrams: For power, signal, and control wiring.

C. Delegated-Design Submittal: For sprinkler systems indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

D. Qualification Data: For qualified Installer.

E. Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction, including hydraulic calculations if applicable.

F. Field Test Reports and Certificates: Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."

G. Operation and maintenance data.

1.6 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer's responsibilities include designing, fabricating, and installing sprinkler systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

C. NFPA Standards: Sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the following:

1. NFPA 13, "Installation of Sprinkler Systems."
2. NFPA 24, "Installation of Private Fire Service Mains and Their Appurtenances."

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

A. Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, and fitting materials, and joining methods for specific services, service locations, and pipe sizes.

2.2 STEEL PIPE AND FITTINGS

A. Standard Weight, Galvanized-Steel Pipe: ASTM A 53/A 53M, Type E, Grade B. Pipe ends may be factory or field formed to match joining method.

B. Thinwall Galvanized-Steel Pipe: Not allowed.

C. Galvanized-Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M, standard-weight, seamless steel pipe with threaded ends.

D. Galvanized, Steel Couplings: ASTM A 865, threaded.

E. Galvanized, Gray-Iron Threaded Fittings: ASME B16.4, Class 125, standard pattern.

F. Malleable- or Ductile-Iron Unions: UL 860.

G. Cast-Iron Flanges: ASME B16.1, Class 125.

H. Grooved-Joint, Steel-Pipe Appurtenances:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Anvil International, Inc.
b. Tyco Fire & Building Products LP.
c. Victaulic Company.

2. Pressure Rating: 175 psig minimum.
3. Galvanized, Grooved-End Fittings for Steel Piping: ASTM A 47/A 47M, malleable-iron casting or ASTM A 536, ductile-iron casting; with dimensions matching steel pipe.

4. Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 and UL 213, rigid pattern, unless otherwise indicated, for steel-pipe dimensions. Include ferrous housing sections, EPDM-rubber gasket, and bolts and nuts.

2.3 LISTED FIRE-PROTECTION VALVES

A. General Requirements:

1. Valves shall be UL listed or FM approved.
2. Minimum Pressure Rating: 175 psig.

B. Check Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Clow Valve Company; a division of McWane, Inc.
   b. Crane Co.; Crane Valve Group; Crane Valves.
   c. Crane Co.; Crane Valve Group; Jenkins Valves.
   d. Crane Co.; Crane Valve Group; Stockham Division.
   e. Globe Fire Sprinkler Corporation.
   f. Kennedy Valve; a division of McWane, Inc.
   g. Metraflex, Inc.
   h. Milwaukee Valve Company.
   i. Mueller Co.; Water Products Division.
   j. NIBCO INC.
   k. Potter Roemer.
   l. Reliable Automatic Sprinkler Co., Inc.
   m. Tyco Fire Protection Products.
   n. Viking Corporation.
   o. Watts Water Technologies, Inc.

2. Standard: UL 312
3. Pressure Rating: 250 psig minimum.
4. Type: Swing check.
5. Body Material: Cast iron.
6. End Connections: Flanged.

C. Bronze OS&Y Gate Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. Crane Co.; Crane Valve Group; Crane Valves.
   b. Crane Co.; Crane Valve Group; Stockham Division.
   c. Milwaukee Valve Company.
   d. NIBCO INC.
   e. United Brass Works, Inc.

2. Standard: UL 262.
3. Pressure Rating: 175 psig.
4. Body Material: Bronze.
5. End Connections: Threaded.

D. Iron OS&Y Gate Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. American Cast Iron Pipe Company; Waterous Company Subsidiary.
b. American Valve, Inc.
c. Clow Valve Company; a division of McWane, Inc.
d. Crane Co.; Crane Valve Group; Crane Valves.
e. Crane Co.; Crane Valve Group; Jenkins Valves.
f. Crane Co.; Crane Valve Group; Stockham Division.
g. Hammond Valve.
h. Milwaukee Valve Company.
i. Mueller Co.; Water Products Division.
j. NIBCO INC.
k. Tyco Fire Protection Products.
l. United Brass Works, Inc.
m. Watts Water Technologies, Inc.

2. Standard: UL 262.
3. Pressure Rating: 250 psig.
4. Body Material: Cast or ductile iron.
5. End Connections: Flanged.

E. Indicating-Type Butterfly Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Global Safety Products, Inc.
   b. Kennedy Valve; a division of McWane, Inc.
   c. Milwaukee Valve Company.
   d. NIBCO INC.
   e. Tyco Fire Protection Products.

2. Standard: UL 1091.
3. Pressure Rating: 175 psig minimum.
4. Valves NPS 2 and Smaller:

   a. Valve Type: Ball or butterfly.
   b. Body Material: Bronze.
   c. End Connections: Threaded.

5. Valves NPS 2-1/2 and Larger:

   a. Valve Type: Butterfly.
   b. Body Material: Cast or ductile iron.
   c. End Connections: Flanged or wafer.

6. Valve Operation: Integral electrical, 115-V ac, prewired, single-circuit, supervisory switch indicating device.

2.4 TRIM AND DRAIN VALVES

A. General Requirements:

1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
2. Minimum Pressure Rating: 175 psig (1200 kPa).

B. Ball Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Conbraco Industries, Inc.; Apollo Valves.
   b. Flowserve.
   c. FNW.
   d. Jomar International, Ltd.
   e. Kennedy Valve; a division of McWane, Inc.
   f. Milwaukee Valve Company.
   g. NIBCO INC.
   h. Potter Roemer.
   i. Red-White Valve Corporation.
   j. Tyco Fire Protection Products.
   k. Watts Water Technologies, Inc.

2.5 SPECIALTY VALVES

A. General Requirements:

1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
2. Minimum Pressure Rating: 175 psig.
3. Body Material: Cast or ductile iron.
4. Size: Same as connected piping.
5. End Connections: Flanged.

B. Dry-Pipe Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Globe Fire Sprinkler Corporation.
   b. Reliable Automatic Sprinkler Co., Inc.
   c. Tyco Fire Protection Products.
   d. Viking Corporation.

2. Standard: UL 260
3. Design: Differential-pressure type.

4. Include UL 1486, quick-opening devices, trim sets for air supply, drain, priming level, alarm connections, ball drip valves, pressure gages, priming chamber attachment, and fill-line attachment.
5. Air Compressor:
   a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

      1) Gast Manufacturing Inc.
      2) General Air Products, Inc,
      3) Viking Corporation.

   b. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
   c. Motor Horsepower: Fractional.
   d. Power: 120-V ac, 60 Hz, single phase.

2.6 SPRINKLER SPECIALTY PIPE FITTINGS

A. General Requirements for Dry-Pipe-System Fittings: UL listed for dry-pipe service.

B. Outlet Specialty Fittings:

1. Mechanical-T and -Cross Fittings: Not allowed.
2. Snap-On and Strapless Outlet Fittings: Not allowed.

C. Flow Detection and Test Assemblies:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. AGF Manufacturing Inc.
   b. Reliable Automatic Sprinkler Co., Inc.
   c. Tyco Fire Protection Products.

2. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Cast- or ductile-iron housing with orifice, sight glass, and integral test valve.
5. Size: Same as connected piping.
6. Inlet and Outlet: Threaded.

D. Sprinkler Inspector's Test Fittings:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. AGF Manufacturing Inc.
b. Triple R Specialty.
c. Tyco Fire Protection Products.
d. Viking Corporation.

2. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
3. Pressure Rating: 175 psig) minimum.
4. Body Material: Cast- or ductile-iron housing with sight glass.
5. Size: Same as connected piping.
6. Inlet and Outlet: Threaded.

2.7 SPRINKLERS

A. Sprinklers shall be UL listed or FMG approved, with 175-psig minimum pressure rating.

B. Manufacturers:

1. AFAC Inc.
2. Firematic Sprinkler Devices, Inc.
3. Globe Fire Sprinkler Corporation.
4. Reliable Automatic Sprinkler Co., Inc.
5. Venus Fire Protection, Ltd.
6. Viking Corp.

C. Automatic Sprinklers: With heat-responsive element complying with the following:

1. UL 199, for nonresidential applications.

D. Sprinkler Types and Categories: Nominal 1/2-inch orifice for "Ordinary" temperature classification rating, unless otherwise indicated or required by application.

E. Sprinkler types, features, and options as follows:

1. Concealed ceiling sprinklers, including cover plate.
2. Flush ceiling sprinklers, including escutcheon.
3. Pendent sprinklers.
4. Quick-response sprinklers.
5. Recessed sprinklers, including escutcheon.
6. Sidewall sprinklers.
7. Upright sprinklers.

F. Sprinkler Finishes: Chrome plated, bronze, and painted.

G. Special Coatings: Wax, lead, and corrosion-resistant paint.

H. Sprinkler Escutcheons: Materials, types, and finishes for the following sprinkler mounting applications. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers.

1. Ceiling Mounting: Chrome-plated steel, one piece, flat.
2. Sidewall Mounting: Chrome-plated steel, one piece, flat.

I. Sprinkler Guards: Wire-cage type, including fastening device for attaching to sprinkler.

2.8 ALARM DEVICES

A. Alarm-device types shall match piping and equipment connections.

B. Water-Motor-Operated Alarm:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. Globe Fire Sprinkler Corporation.
   b. Tyco Fire Protection Products.
   c. Viking Corporation.

2. Standard: UL 753.
3. Type: Mechanically operated, with Pelton wheel.
4. Alarm Gong: Cast aluminum with red-enamel factory finish.
5. Size: 10-inch diameter.
6. Components: Shaft length, bearings, and sleeve to suit wall construction.
7. Inlet: NPS 3/4
8. Outlet: NPS 1 drain connection.

C. Valve Supervisory Switches:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. Fire-Lite Alarms; a Honeywell company.
   b. Kennedy Valve; a division of McWane, Inc.
   c. Potter Electric Signal Company.
   d. System Sensor; a Honeywell company.

2. Standard: UL 346.
3. Type: Electrically supervised.
4. Components: Single-pole, double-throw switch with normally closed contacts.
5. Design: Signals that controlled valve is in other than fully open position.

2.9 DRY PIPE ACCELERATOR

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Globe Fire Sprinkler Corporation.
b. Tyco Fire Protection Products.
c. Viking Corporation.

2. Standard: UL 1486
3. Type: Electronic, microprocessor based.
4. Power Requirements: 0.75 A @ 120/220 AC.
5. Batteries:
   a. Backup time: 90 hours, provided by two 12-volt (5 AH) batteries.
   b. Current Draw:
      1) Standby: 43 mA.
      2) Alarm: 440 mA.
6. Maximum Water Pressure: 300 psig.
7. Air Pressure: 10 to 65 psig.
8. Pressure Decay for Trip: 0.1 psig/second.
9. Environmental Conditions:
   a. Accelerator: 40º F to 120º F.
   b. Batteries: 32º F to 120º.
10. Enclosures:
    a. Accelerator: NEMA 2, indoor use, 18 gauge steel.
    b. Batteries: NEMA 1, indoor use, 18 gauge steel.
11. Indicators and Controls:
    a. AC Power Indicator: Green LED.
    b. Trouble/Supervisory: Amber LED.
    c. Battery Trouble: Amber LED.
    d. Tripped: Red LED.
    e. Switch S1: Two position, Set/Off.
    f. Switch S2: Two position momentary, reset/silence.
    g. Audible Alarm: Buzzer indicating trouble or supervisory condition.
    h. Dry Contacts:
       1) Trouble annunciation: Normally open, 5 A @ 30 VDC rated, activated on any trouble condition.
       2) High/low: Normally open, 5 A @ 30 VDC rated, activated when system pressure is outside of normal setting.

2.10 PRESSURE GAGES

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

2. AMETEK, Inc.; U.S. Gauge Division.
3. Ashcroft, Inc.
4. Brecco Corporation.
5. WIKA Instrument Corporation.

B. Standard: UL 393.

C. Dial Size: 3-1/2- to 4-1/2-inch diameter.

D. Pressure Gage Range: 0 to 250 psig.

E. Water System Piping Gage: Include "WATER" or "AIR/WATER" label on dial face.

F. Air System Piping Gage: Include retard feature and "AIR" or "AIR/WATER" label on dial face.

PART 3 - EXECUTION

3.1 WATER-SUPPLY CONNECTIONS

A. Connect sprinkler piping to building's interior fire water-distribution piping.

B. Install shutoff valve, check valve, pressure gage, and drain at connection to water supply.

3.2 PIPING INSTALLATION

A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated, as far as practical.

1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval with Architect before deviating from approved working plans.

B. Piping Standard: Comply with requirements in NFPA 13 for installation of sprinkler piping.

C. Install seismic restraints on piping. Comply with requirements in NFPA 13 for seismic-restraint device materials and installation.

D. Use listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.

E. Install unions adjacent to each valve in pipes NPS 2 (DN 50) and smaller.

F. Install flanges or flange adapters on valves, apparatus, and equipment having NPS 2-1/2 (DN 65) and larger end connections.

G. Install "Inspector's Test Connections" in sprinkler system piping, complete with shutoff valve, and sized and located according to NFPA 13.

H. Install sprinkler piping with drains for complete system drainage.

I. Install sprinkler control valves, test assemblies, and drain risers adjacent to standpipes when sprinkler piping is connected to standpipes.

J. Install automatic (ball drip) drain valves to drain piping between fire-department connections and check valves. Drain to floor drain or to outside building.

K. Install alarm devices in piping systems.

L. Install hangers and supports for sprinkler system piping according to NFPA 13. Comply with requirements in NFPA 13 for hanger materials.

M. Install pressure gages on riser or feed main, at each sprinkler test connection, and at top of each standpipe. Include pressure gages with connection not less than NPS 1/4 (DN 8) and with soft metal seated globe valve, arranged for draining pipe between gage and valve. Install gages to permit removal, and install where they will not be subject to freezing.

N. Drain dry-pipe sprinkler piping.

O. Pressurize and check dry-pipe sprinkler system piping and air compressors.

3.3 JOINT CONSTRUCTION

A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.

B. Install unions adjacent to each valve in pipes NPS 2 (DN 50) and smaller.

C. Install flanges or flange adapters on valves, apparatus, and equipment having NPS 2-1/2 (DN 65) and larger end connections.

D. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

E. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.

F. Flanged Joints: Select appropriate gasket material in size, type, and thickness suitable for water service. Join flanges with gasket and bolts according to ASME B31.9.

G. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

1. Apply appropriate tape or thread compound to external pipe threads.
2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged.

H. Dissimilar-Material Piping Joints: Make joints using adapters compatible with materials of both piping systems.

3.4 VALVE AND SPECIALTIES INSTALLATION

A. Install listed fire-protection valves, trim and drain valves, specialty valves and trim, controls, and specialties according to NFPA 13 and authorities having jurisdiction.

B. Install listed fire-protection shutoff valves supervised open, located to control sources of water supply except from fire-department connections. Install permanent identification signs indicating portion of system controlled by each valve.

C. Install check valve in each water-supply connection. Install backflow preventers instead of check valves in potable-water-supply sources.

D. Specialty Valves:

1. General Requirements: Install in vertical position for proper direction of flow, in main supply to system.
2. Dry-Pipe Valves: Install trim sets for air supply, drain, priming level, alarm connections, ball drip valves, pressure gages, priming chamber attachment, and fill-line attachment.

a. Install air compressor and compressed-air supply piping.

3.5 SPRINKLER INSTALLATION

A. Install dry-type sprinklers with water supply from heated space. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing.

B. Install sprinklers in suspended ceilings in center of narrow dimension of acoustical ceiling panels and tiles.

3.6 ACCELERATOR INSTALLATION

A. Install electronic accelerator in accordance with manufacturer’s recommendations and NFPA.

B. Install accelerator at dry alarm valve. Connect to power, including listed transformer and batter charger. Install all manufacturers’ recommended trim.

C. Install battery and battery enclosure on wall adjacent to dry alarm valve. Provide interconnecting wiring and conduit between accelerator and battery cabinet.

D. Adjust high/low pressure settings to match installed conditions.

3.7 IDENTIFICATION

A. Install labeling and pipe markers on equipment and piping according to requirements in NFPA 13.

B. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."

3.8 FIELD QUALITY CONTROL

A. Perform tests and inspections.

B. Tests and Inspections:

1. Leak Test: After installation, charge systems and test for leaks. Repair leaks and retest until no leaks exist.
2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
3. Flush, test, and inspect sprinkler systems according to NFPA 13, "Systems Acceptance" Chapter.
4. Energize circuits to electrical equipment and devices.
5. Start and run air compressors.
6. Coordinate with fire-alarm tests. Operate as required.
7. Coordinate with fire-pump tests. Operate as required.
8. Verify that equipment hose threads are same as local fire-department equipment.

C. Sprinkler piping system will be considered defective if it does not pass tests and inspections.

D. Prepare test and inspection reports.

3.9 CLEANING

A. Clean dirt and debris from sprinklers.

B. Remove and replace sprinklers with paint other than factory finish.

3.10 PIPING SCHEDULE

A. Standard-pressure, dry-pipe sprinkler system, NPS 2 and smaller, shall be one of the following:

1. Standard weight, galvanized-steel pipe with threaded ends; galvanized, gray-iron threaded fittings; and threaded joints.
2. Standard-weight, galvanized-steel pipe with cut-grooved ends; galvanized, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.

B. Standard-pressure, dry-pipe sprinkler system, NPS 2-1/2 to NPS 6, shall be one of the following:

1. Standard-weight, galvanized-steel pipe with threaded ends; galvanized, gray-iron threaded fittings; and threaded joints.
2. Standard-weight, galvanized-steel pipe with cut-grooved ends; galvanized, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.

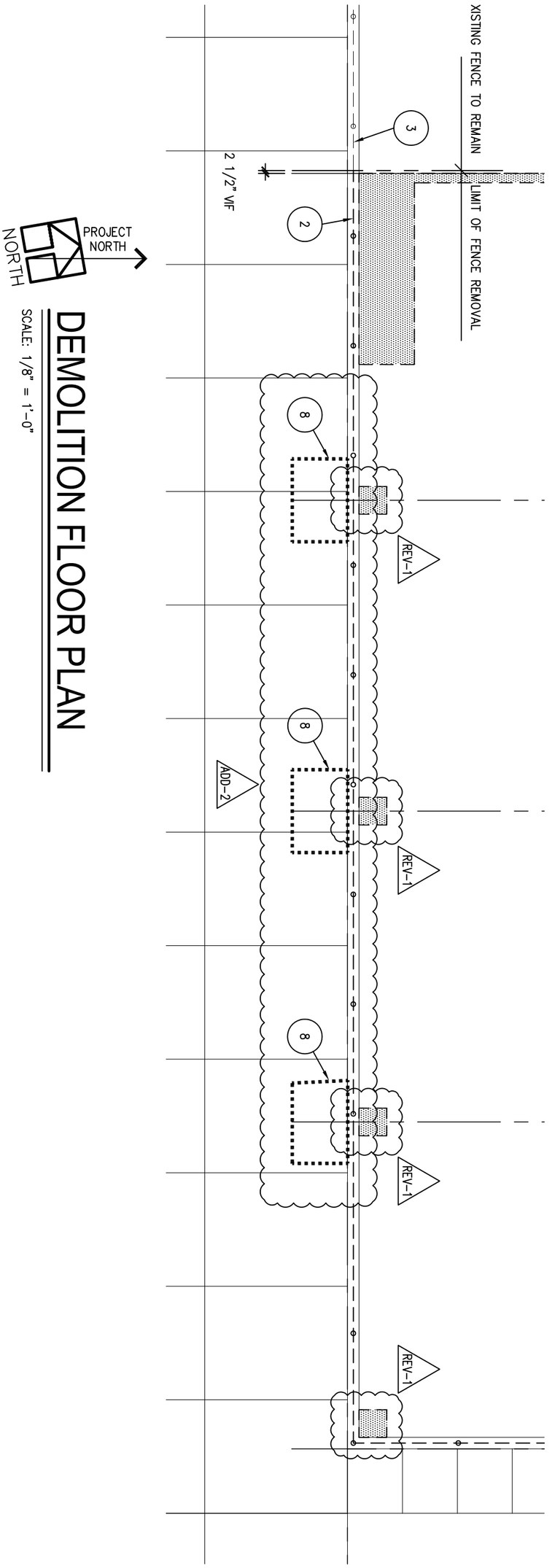
3.11 SPRINKLER SCHEDULE

A. Where specific types are not indicated, use the following sprinkler types:
1. Spaces Subject to Freezing: Upright, sprinklers.
2. Rooms without Ceilings: Upright sprinklers.
3. Rooms with Suspended Ceilings: Concealed sprinklers.

4. Wall Mounting: Sidewall sprinklers.
5. Sprinkler Finishes:

    a. Upright, Pendent, and Sidewall Sprinklers: Chrome plated in finished spaces exposed to view; rough bronze in unfinished spaces not exposed to view; wax coated where exposed to acids, chemicals, or other corrosive fumes.
    b. Concealed Sprinklers: Rough brass, with factory-painted white cover plate

END OF SECTION 211316



DEMOLITION FLOOR PLAN

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

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

DLR Group
Architecture Planning Interiors

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74-11105-00
11-04-2011

DEMOLITION PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012

Attachment No. A1
to ADD-2
Dated: February 2, 2012

KEY NOTES

1. RELOCATE EXISTING GATES AND FENCE. SEE A1.1 FOR NEW LOCATION.
2. REMOVE EXISTING FENCE ENCLOSURE
3. EXISTING FENCE ENCLOSURE TO REMAIN
4. EXISTING GATES / DOOR TO REMAIN
5. SALVAGE DOOR AND FENCE. REATTACH AFTER COMPLETION AT NEW FOOTING
6. REMOVE EXISTING STAIR HANDRAIL. PATCH AND REPAIR SLEEVE FOOTING TO MATCH EXISTING PAVING
7. EXISTING STAIR HANDRAIL TO REMAIN ADD-2
8. REPLACE CONCRETE PAVEMENT AND BASE ROCK SECTION TO EXISTING THICKNESSES TO ACCOMMODATE NEW FOOTING – SEE SHEET S1.2 FOR EXTENT OF NEW FOOTING

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

Attachment No. A2
to ADD-2
Dated: February 2, 2012

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Architecture Planning Interiors

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DEMOLITION PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.

B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.

C. FLOOR SPOT ELEVATIONS ARE SHOWN THUS ● 100'–0"

D. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS ◇ (?) , SEE SHEET A9.1 FOR WALL TYPES. ALL INTERIOR PARTITIONS ARE WALL TYPE "1" UNLESS NOTED OTHERWISE. ADD–2

E. FURNISH AND INSTALL FIRE–TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. WALL–MOUNTED FIXTURES, DOOR STOPS AUDIO VISUAL BRACKETS, ETC.

F. GYPSUM BOARD AND PLASTER SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

G. ARCHITECTURAL FINISH FLOOR ELEVATION 100'–0" EQUALS ACTUAL SITE REFERENCE ELEVATION OF FINISH FLOOR 422.0 ± FEET.

H. SEE D1.1 FOR EXISTING PLAYER AREA THAT IS TO REMAIN OPEN AND AVAILABLE FOR STUDENT ATHLETES AND COACHES DURING CONSTRUCTION.

I. SEE CP.1 FOR FIRE PROTECTION ZONE.

REV–1

Attachment No. A3
to ADD-2
Dated: February 2, 2012

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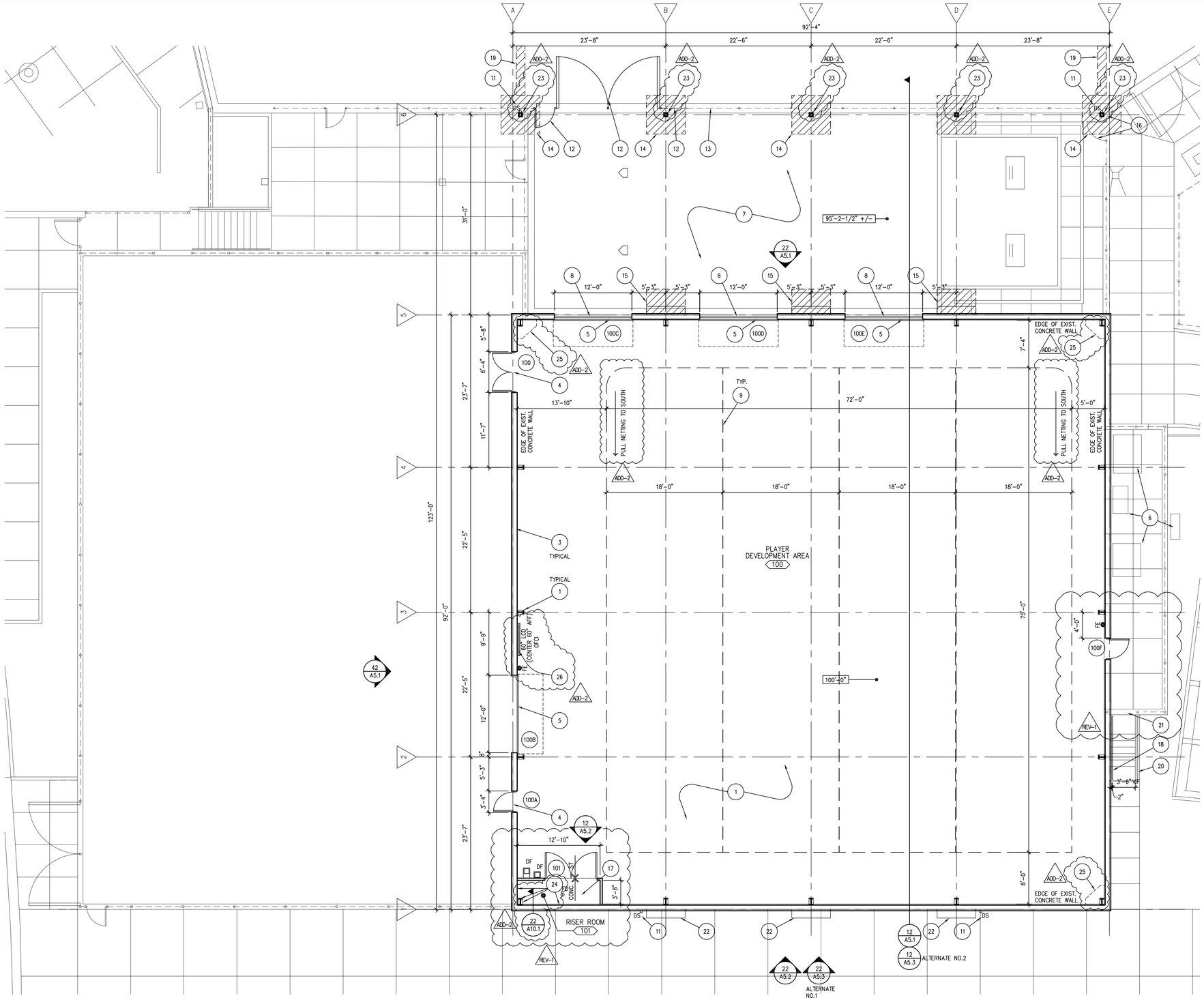
GENERAL NOTES, SYMBOLS & ABBREVIATIONS
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



FLOOR PLAN

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

GENERAL FLOOR NOTES

A. SYNTHETIC TURF PRODUCT: FIELDTURF 2.5" CLASSIC.

B. SYNTHETIC TURF MANUFACTURER: FIELDTURF INTERNATIONAL INC., 175 N. INDUSTRIAL BLVD., CALHOUN, GA 30701 USA; TEL: (800) 724-2969.

C. PROVIDE NEW TURF NAILER BOARD AT PERIMETER OF TURF WHERE EXISTING NAILER HAS BEEN IMPACTED.

D. INSTALL SYNTHETIC TURF AND INFILL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

E. COLUMN SAFETY PADS ARE REQUIRED FOR OUTDOOR COLUMNS IN BULLPEN AREA AS MARKED ON PLANS AND ELEVATIONS. NO PADS ARE REQUIRED FOR INSIDE THE NEW BUILDING. PER THE ELEVATIONS, THE PADS SHALL WRAP 3 SIDES BEHIND THE PERIMETER FENCE, AND 4 SIDES ABOVE THE PERIMETER FENCE. THE BASIS OF DESIGN FOR THESE PADS IS C&H BASEBALL EQUIPMENT (www.chbaseball.com). PRODUCT REQUIREMENTS ARE:

1. EACH PANEL SECTION SHALL CONSIST OF FILL LAMINATED TO BACKER BOARD WITH VISIBLE SURFACES FULLY COVERED BY SEAMLESS FABRIC COVERING, FREE OF SAG AND WRINKLES AND FIRMLY ATTACHED TO BACK OF BACKER BOARD.
2. BACKER BOARD: 3/8-INCH THICK MARINE PLYWOOD, MAT FORMED, OR COMPOSITE PANEL
3. VINYL COVER: 18.5 OZ / SQ YARD WEIGHT, STITCHED WITH NYLON MULTI-FILAMENT THREAD.
4. FILLER: MULTIPLE-IMPACT-RESISTANT FOAM NOT LESS THAN 3-INCH-THICK BONDED POLYURETHAN, 6.0-LB/CU. FT. DENSITY.
5. FABRIC COVERING COLOR: DARK GREEN TO MATCH EXISTING PADDING.

ADD-2

KEY NOTES

1. EXISTING SYNTHETIC TURF. CUT AND FILL TO ACCOMMODATE NEW STRUCTURAL FOOTINGS AT PERIMETER.
2. DRINKING FOUNTAIN
3. INSULATED WALL
4. METAL DOOR
5. SECTIONAL DOOR
6. EXISTING ELECTRICAL EQUIPMENT
7. BULLPEN
8. GUARD RAIL
9. BATTING CAGE NET
10. PROVIDE COLUMN SAFETY PAD. SEE ALSO GENERAL FLOOR NOTES AND DETAILS 12 ON SHEETS A5.1 AND A5.3.
11. DOWNSPOUT
12. EXISTING FENCE AND GATES AT NEW LOCATION. SEE D1.1 FOR ORIGINAL LOCATION
13. EXISTING FENCE TO REMAIN
14. PATCH AND REPAIR BULLPEN, CONCRETE CURB, FENCE, AND SYNTHETIC TURF TO MATCH EXISTING (SEE HATCHED AREA)
15. PATCH AND REPAIR BULLPEN TO MATCH EXISTING (SEE HATCHED AREA)
16. RELOCATE GATE AND FENCE TO EXISTING POSITION
17. FLOAT FINISH AT CONCRETE SLAB
18. NEW GALVANIZED HANDRAIL – TO MATCH EXISTING THAT IS TO BE REMOVED. SEE D1.1 AND A5.2
19. PATCH AND REPLACE SYNTHETIC TURF AT DOWNSPOUT / STORM DRAIN CONNECTION (SEE HATCHED AREA)
20. EXISTING STAIR HANDRAIL TO REMAIN
21. EXISTING GATE TO BE REMOVED.
22. CONCRETE PILASTER – SEE STRUCTURAL
23. COLUMN SAFETY PAD. SEE GENERAL NOTES AND SHEETS A5.1. A5.2, AND A5.3 FOR VERTICAL DIMENSIONS
24. PROVIDE GWB OVER 3/4" METAL HAT CHANNEL, 16" O.C. AT INTERIOR WALL. SEE DETAIL 22 ON SHEET A10.1
25. SPEAKER SHELF – SEE DETAILS 12 AND 12A ON SHEET A10.1
26. ATTACH LCD TV TO PLAYWOOD BACKING OVER 1-1/2" METAL HAT CHANNEL AT 16" O.C.

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

CONFORM SET
JANUARY 12, 2012

FLOOR PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

A1.1

74-11105-00
11-04-2011
12-22-11
ADD-02-12 ATTACHMENT NO. A4

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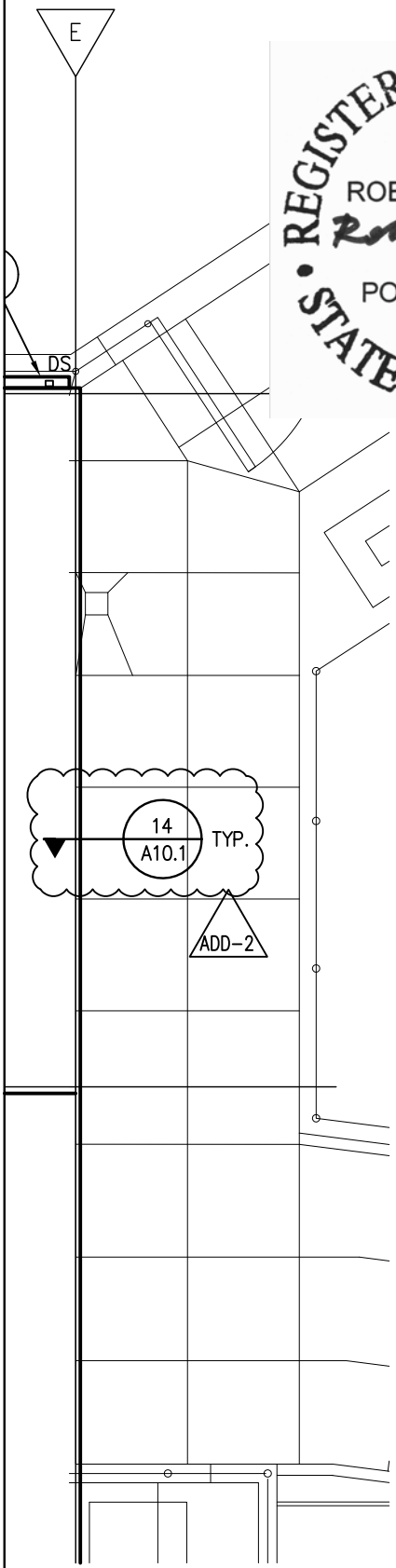

REGISTERED ARCHITECT
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PORTLAND, OR
STATE OF OREGON

ROOF PLAN GENERAL NOTES

A. FOR BOTH THE BASE BID AND ALTERNATE 2, THE ROOF PLAN SLOPE IS 1:12.

B. ALL ROOF CURBS TO BE A MINIMUM OF 8" ABOVE ROOFING LEVELS.

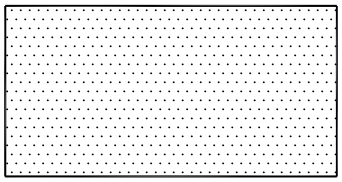
C. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS SHEET.

ADD-2

KEY NOTES

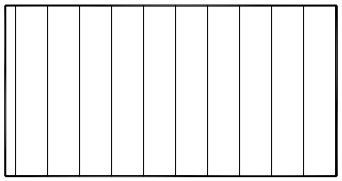
1. DOWNSPOUT
2. GUTTER
3. RIDGE LINE
4. WALL BELOW (DASHED)

ROOF LEGEND



SKYLIGHT – ALTERNATE 2.

ADD-2



STANDING SEAM METAL ROOF

Attachment No. A5
to ADD-2
Dated: February 2, 2012

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DLR Group
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A4.1

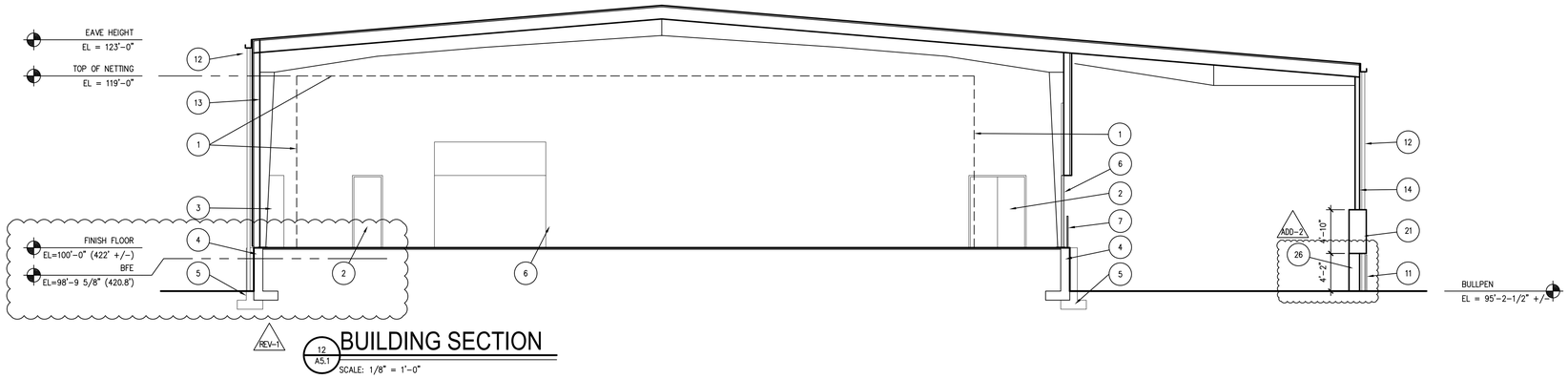
74-11105-00

11-04-2011

ROOF PLAN - BASE BID AND ALTERNATE 2
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

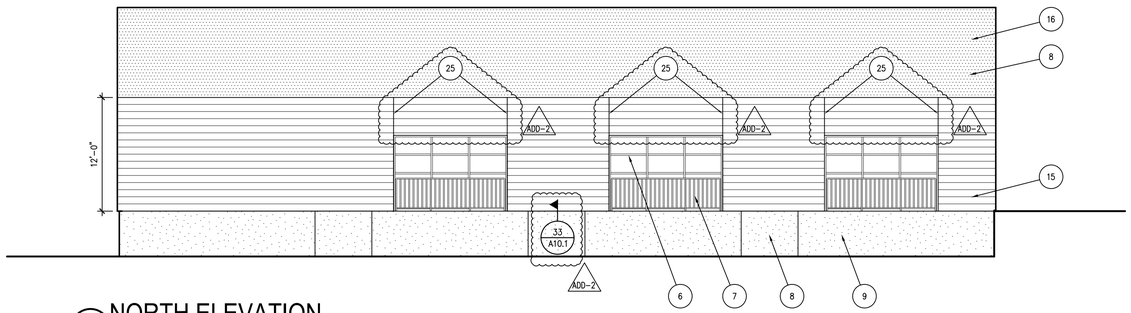
ADD-2

CONFORM SET
JANUARY 12, 2012



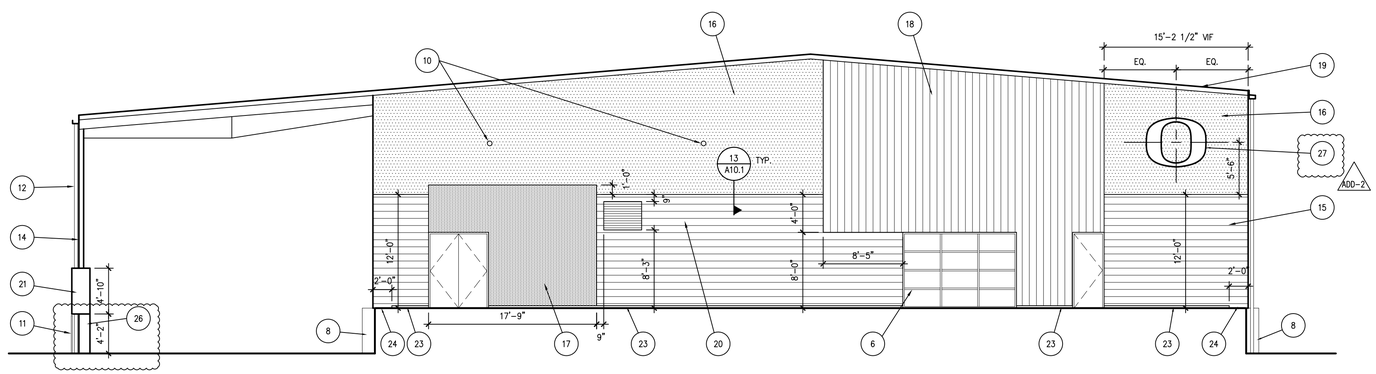
12 A5.1 BUILDING SECTION

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



22 A5.1 NORTH ELEVATION

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



42 A5.1 WEST ELEVATION

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

KEY NOTES

1. CAGE NETTING
2. DOOR BEYOND
3. RISER ROOM BEYOND
4. EXISTING FOOTING
5. NEW STRUCTURAL FOOTING BEYOND
6. OVERHEAD SECTIONAL DOOR
7. GUARD RAIL – GALVANIZED FINISH
8. CONCRETE PILASTER
9. EXISTING RETAINING WALL
10. MECHANICAL HEATING UNIT PENETRATION
11. EXISTING RAIL
12. DOWNSPOUT (COLOR: DARK GREEN FOR NORTH DSs; COOL SHELL GRAY FOR SOUTH DSs)
13. METAL STRUCTURE (COLOR: DARK GREEN)
14. HSS COLUMN (COLOR: DARK GREEN)
15. INSULATED METAL PANEL – TYPE 1 (COLOR: EMERALD GREEN)
16. INSULATED METAL PANEL – TYPE 2 (COLOR: COOL SHELL GRAY)
17. INSULATED METAL PANEL – TYPE 3 (COLOR: YELLOW)
18. INSULATED METAL PANEL – TYPE 4 (COLOR: DARK GREY)
19. STANDING SEAM METAL ROOF
20. MECHANICAL LOUVER (COLOR TO MATCH ADJACENT PANEL)
21. PADDING AROUND 4 SIDES ADD-2
22. NEW TUBE PIPE STAIR HANDRAIL (GALVANIZED FINISH). MATCH EXISTING STAIR HANDRAIL THAT IS TO BE REMOVED – SEE SHEETS D1.1 AND A1.1.
23. EXPOSED CONCRETE CURB – SEE DETAIL 43 ON SHEET A10.1
24. WALL FLASHING TO EDGE OF SYNTHETIC TURF, THEN CONTINUOUS AROUND REST OF BUILDING – SEE DETAIL 23 ON SHEET A10.1
25. VERTICAL JOINT AT METAL SIDING
26. PADDING AROUND 3 SIDES ADD-2
27. DIMENSIONAL LETTER SIGNAGE ADD-2

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

CONFORM SET
JANUARY 12, 2012

BUILDING SECTION & ELEVATIONS
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

A5.1
74-11105-00
11-04-2011
ADD-2 12-22-11
ADD-2 02-02-12 ATTACHMENT NO. A6

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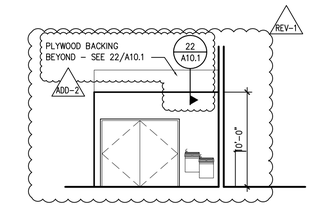
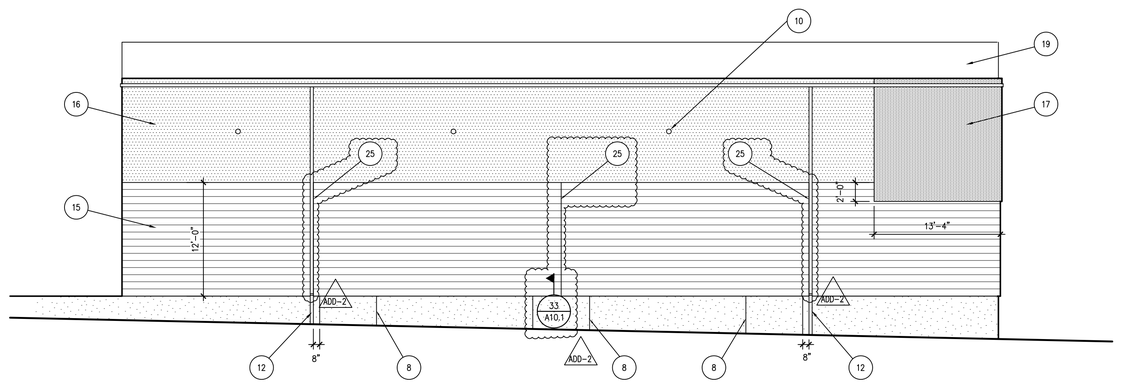


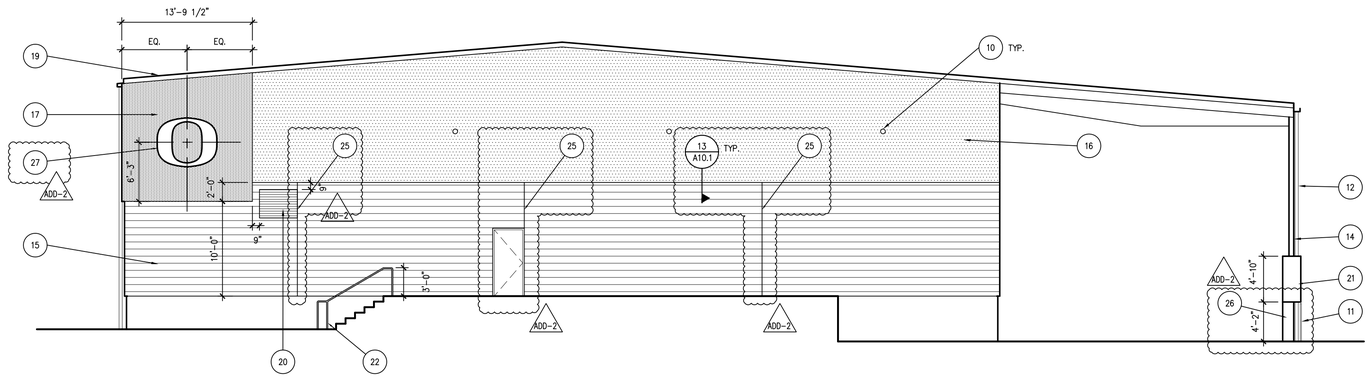
12 A5.2 INTERIOR ELEVATION

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



22 A5.2 SOUTH ELEVATION

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



42 A5.2 EAST ELEVATION

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

KEY NOTES

1. CAGE NETTING
2. DOOR BEYOND
3. RISER ROOM BEYOND
4. EXISTING FOOTING
5. NEW STRUCTURAL FOOTING BEYOND
6. OVERHEAD SECTIONAL DOOR
7. GUARD RAIL – GALVANIZED FINISH
8. CONCRETE PILASTER
9. EXISTING RETAINING WALL
10. MECHANICAL HEATING UNIT PENETRATION
11. EXISTING RAIL
12. DOWNSPOUT (COLOR: DARK GREEN FOR NORTH DSs; COOL SHELL GRAY FOR SOUTH DSs)
13. METAL STRUCTURE (COLOR: DARK GREEN)
14. HSS COLUMN (COLOR: DARK GREEN)
15. INSULATED METAL PANEL – TYPE 1 (COLOR: EMERALD GREEN)
16. INSULATED METAL PANEL – TYPE 2 (COLOR: COOL SHELL GRAY)
17. INSULATED METAL PANEL – TYPE 3 (COLOR: YELLOW)
18. INSULATED METAL PANEL – TYPE 4 (COLOR: DARK GREY)
19. STANDING SEAM METAL ROOF
20. MECHANICAL LOUVER (COLOR TO MATCH ADJACENT PANEL)
21. PADDING AROUND 4 SIDES – ADD-2
22. NEW TUBE PIPE STAIR HANDRAIL (GALVANIZED FINISH). MATCH EXISTING STAIR HANDRAIL THAT IS TO BE REMOVED – SEE SHEETS D1.1 AND A1.1.
23. EXPOSED CONCRETE CURB – SEE DETAIL 43 ON SHEET A10.1
24. WALL FLASHING TO EDGE OF SYNTHETIC TURF, THEN CONTINUOUS AROUND REST OF BUILDING – SEE DETAIL 23 ON SHEET A10.1
25. VERTICAL JOINT AT METAL SIDING
26. PADDING AROUND 3 SIDES – ADD-2
27. DIMENSIONAL LETTER SIGNAGE – ADD-2

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

BUILDING ELEVATIONS & INTERIOR ELEVATION
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012

A5.2

74-11105-00
11-04-2011
12-22-11
02-02-12 ATTACHMENT NO. A7

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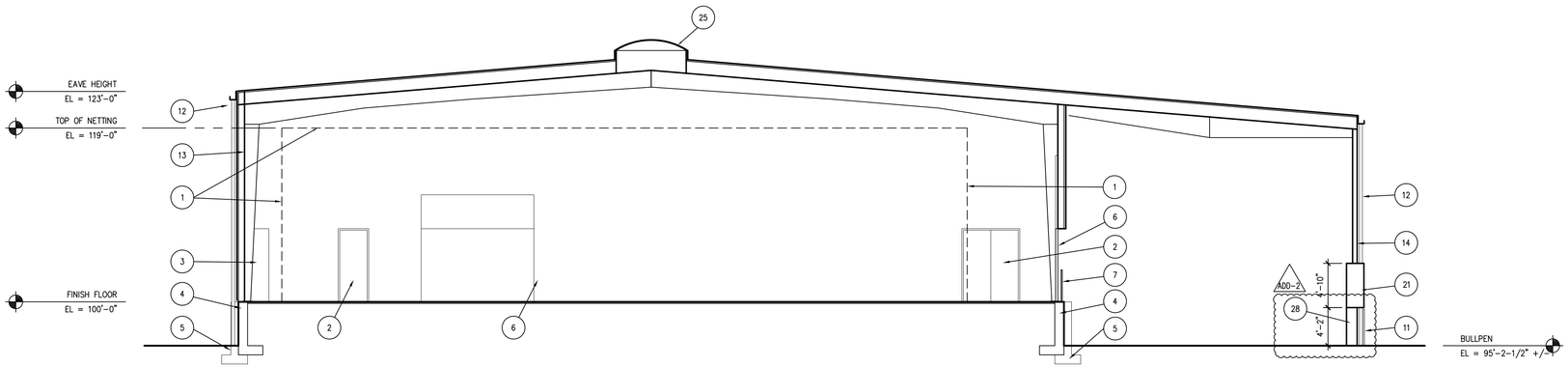
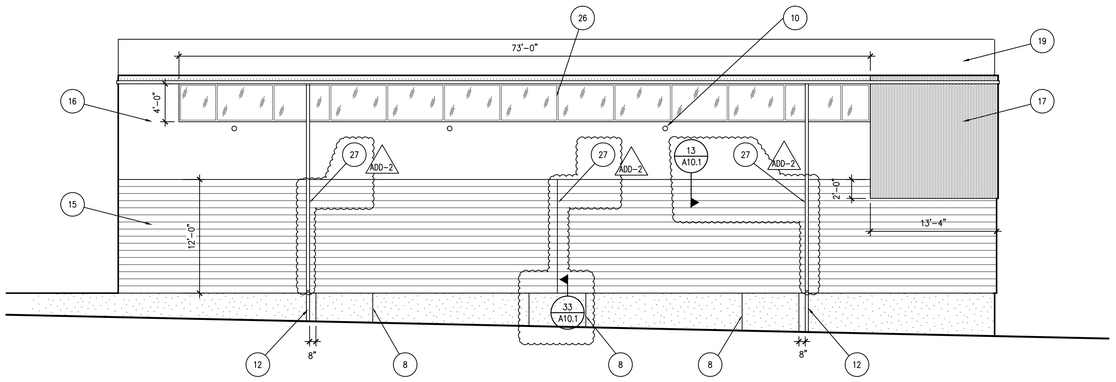


12 / A5.3 BUILDING SECTION - ALTERNATE NO.2

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



22 / A5.3 SOUTH ELEVATION - ALTERNATE NO.1

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

KEY NOTES

1. CAGE NETTING
2. DOOR BEYOND
3. RISER ROOM BEYOND
4. EXISTING FOOTING
5. NEW STRUCTURAL FOOTING BEYOND
6. OVERHEAD SECTIONAL DOOR
7. GUARD RAIL – GALVANIZED FINISH
8. CONCRETE PILASTER
9. EXISTING RETAINING WALL
10. MECHANICAL HEATING UNIT PENETRATION
11. EXISTING RAIL
12. DOWNSPOUT (COLOR: DARK GREEN FOR NORTH DSs; COOL SHELL GRAY FOR SOUTH DSs)
13. METAL STRUCTURE (COLOR: DARK GREEN)
14. HSS COLUMN (COLOR: DARK GREEN)
15. INSULATED METAL PANEL – TYPE 1 (COLOR: EMERALD GREEN)
16. INSULATED METAL PANEL – TYPE 2 (COLOR: COOL SHELL GRAY)
17. INSULATED METAL PANEL – TYPE 3 (COLOR: YELLOW)
18. INSULATED METAL PANEL – TYPE 4 (COLOR: DARK GREY)
19. STANDING SEAM METAL ROOF
20. MECHANICAL LOUVER (COLOR TO MATCH ADJACENT PANEL)
21. PADDING AROUND 4 SIDES (ADD-2)
22. NEW TUBE PIPE STAIR HANDRAIL (GALVANIZED FINISH). MATCH EXISTING STAIR HANDRAIL THAT IS TO BE REMOVED – SEE SHEETS D1.1 AND A1.1.
23. EXPOSED CONCRETE CURB – SEE DETAIL 43 ON SHEET A10.1
24. WALL FLASHING TO EDGE OF SYNTHETIC TURF, THEN CONTINUOUS AROUND REST OF BUILDING – SEE DETAIL 23 ON SHEET A10.1
25. INSULATED SKYLIGHT – ALTERNATE NO.2
26. INSULATED POLYCARBONATE WALL PANELS – ALTERNATE NO.1
27. VERTICAL JOINT AT METAL SIDING
28. PADDING AROUND 3 SIDES (ADD-2)

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

BUILDING SECTION & ELEVATION - ALTERNATES
PLAYER DEVELOPMENT AREA
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CONFORM SET
JANUARY 12, 2012

A5.3
74-11105-00
11-04-2011
1 12-22-11
2 02-02-12 ATTACHMENT NO. A8

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ROOM FINISH SCHEDULE

ROOM NO	SPACE	FINISH FLOOR	BASE	WALLS					CEILING			NOTES
				MAT'L	N	E	S	W	MAT'L	FINISH	HEIGHT	
100	PLAYER DEVELOPMENT AREA	EXIST/ST	--	--	P-1, 2, 3	P-1, 2, 3	P-1, 2, 3	P-1, 2, 3	EXP	P-2	VARIES	2
101	RISER ROOM	FF	--	GWB	P-1	P-1	P-1	P-1	GWB	P-1	9'-0"	1, 2

GENERAL: ALL EXPOSED CONDUITS, PIPES, DUCTS, AND ASSOCIATED APPURTENANCES ARE TO BE PAINTED, SEE SECTION 099123 FOR INTERIOR PAINTING SCHEDULE

NOTES:

1. PROVIDE RUBBER BASE ON NORTH AND EAST WALLS OF RISER ROOM THAT FACE INTO PLAYER DEVELOPMENT AREA.
2. SEE SECTION 099123 FOR INTERIOR PAINTING SCHEDULE

FINISH SCHEDULE ABBREVIATIONS:

EXIST	EXISTING
EXP	EXPOSED
FF	FLOAT FINISH AT CONCRETE SLAB
GWB	GYPSUM BOARD
P-1	PAINT
P-2	PAINT
P-3	PAINT
ST	SYNTHETIC TURF
--	NOT APPLICABLE

21
A9.1

ROOM FINISH SCHEDULE

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

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

Attachment No. A9
to ADD-2
Dated: February 2, 2012

CONFORM SET
JANUARY 12, 2012

SCHEDULES AND DETAILS
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

A9.1
74-11105-00
11-04-2011

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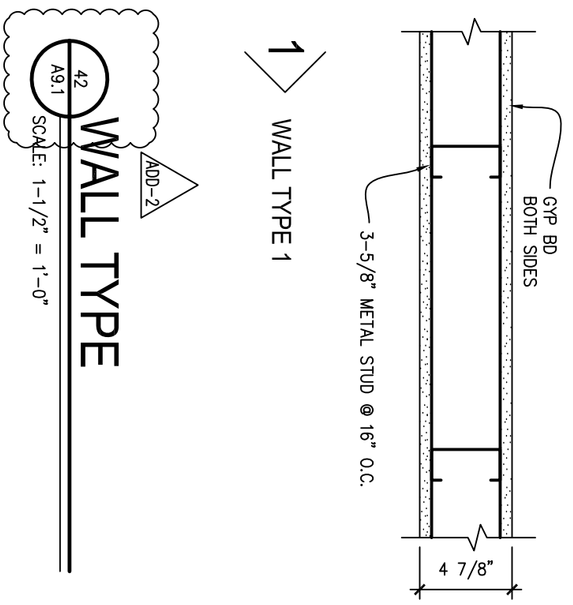
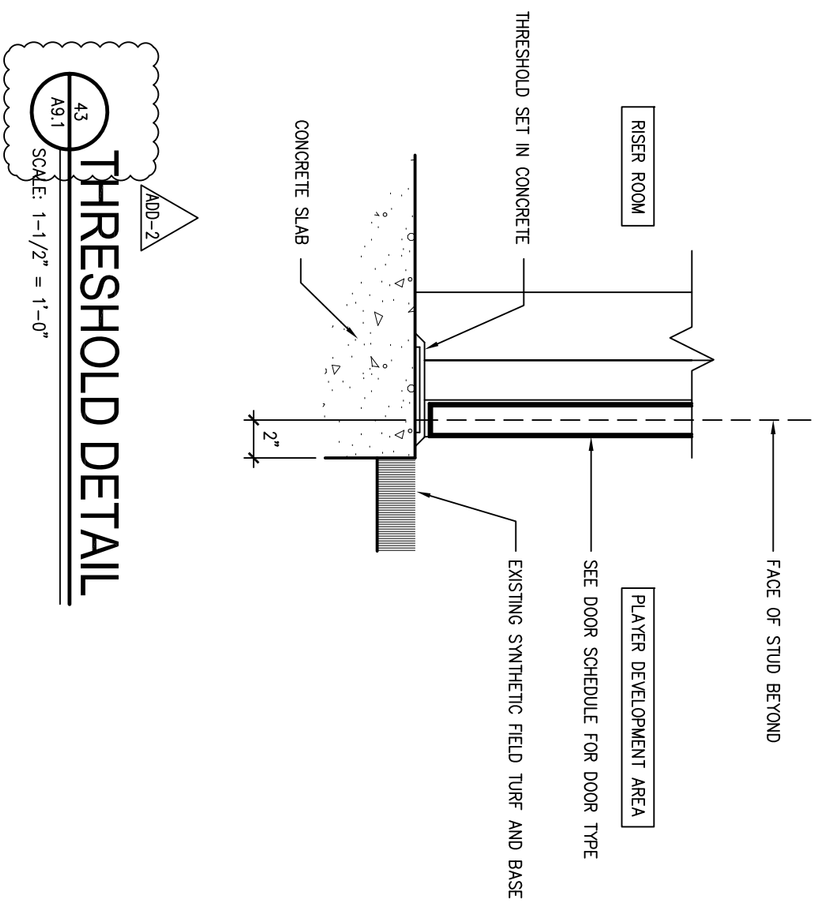


WALL TYPE

42 / A9.1

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

ADD-2

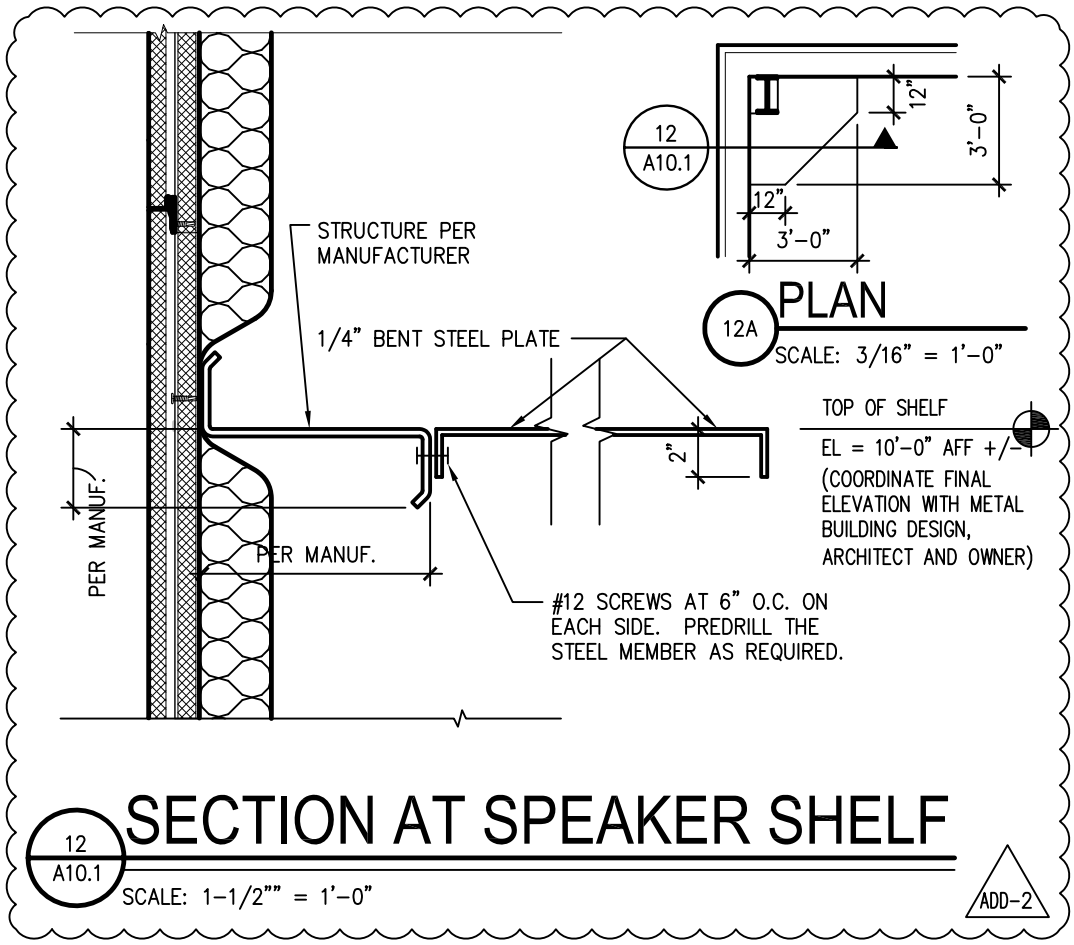


THRESHOLD DETAIL

43 / A9.1

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

ADD-2



Attachment No. A11
to ADD-2
Dated: February 2, 2012

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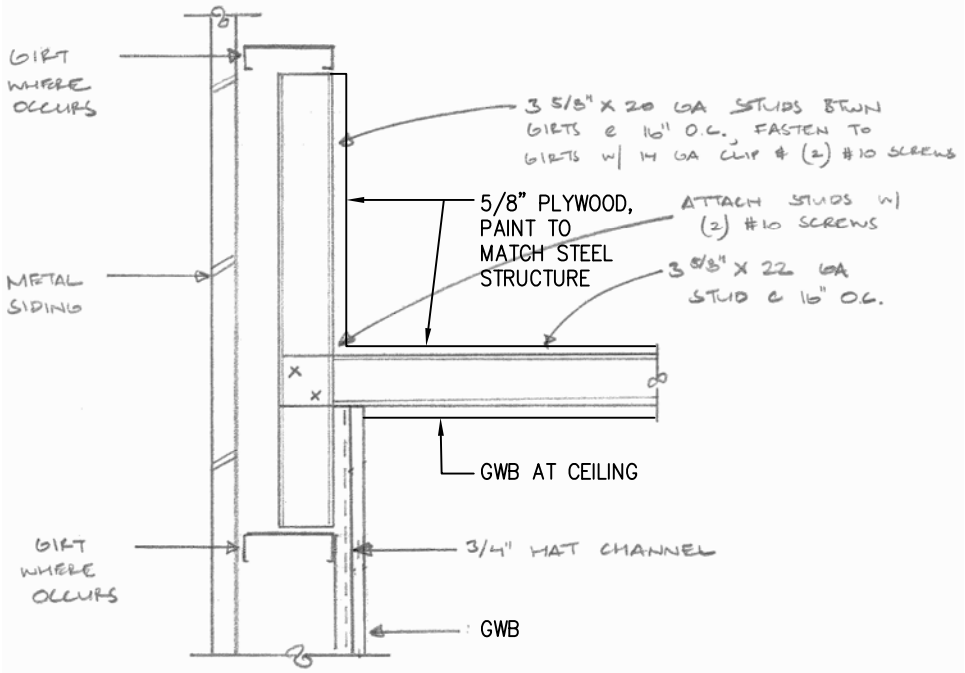
A10.1

74-11105-00

11-04-2011

BUILDING DETAILS
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



SECTION - CEILING SUPPORT AT RISER ROOM

22
A10.1

NOT TO SCALE

ADD-2

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

Attachment No. A12
to ADD-2
Dated: February 2, 2012

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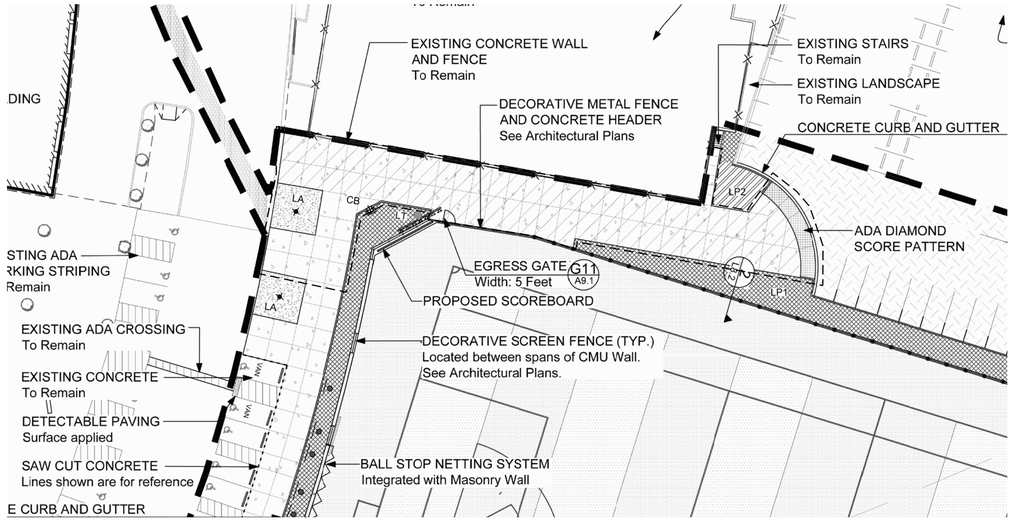
A10.1

74-11105-00
11-04-2011

BUILDING DETAILS
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



NORTH

21 AS1.1 SITE PLAN

SCALE: 1" = 30'

NOTE:

THIS PLAN IDENTIFIES AREA OF NEW SITE WORK. NEW WORK INCLUDES NEW PAVING AND ADA DIAMOND SCORE PATTERN. FENCING IS BY OTHERS. OTHER THAN WHAT IS IDENTIFIED ON THE LANDSCAPE PLAN ON SHEET AS1.2, LANDSCAPING IS BY OTHERS. COORDINATE NEW SITE WORK WITH NEW WORK SHOWN ON CIVIL AND ELECTRICAL SITE PLANS.

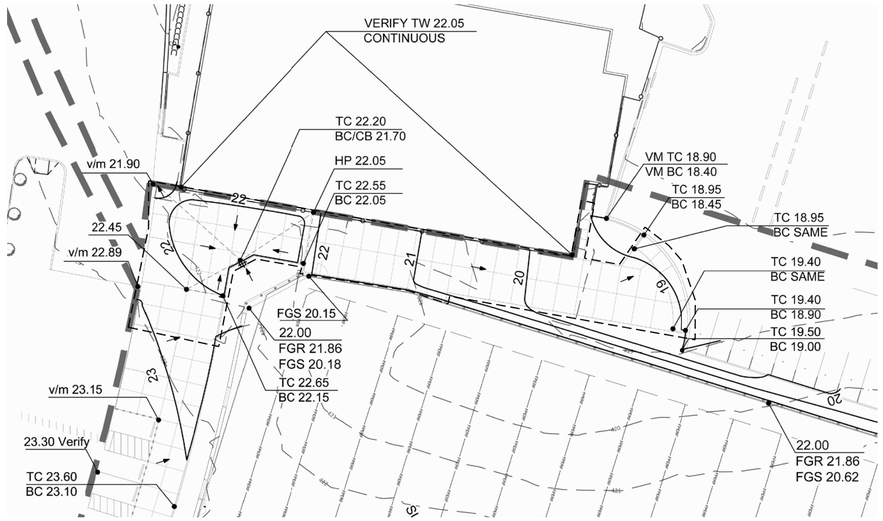
BOUNDARY LIMITS OF NEW SITE WORK

LEGEND (REFER TO SITE PLAN FOR EXTENT OF NEW WORK)

- Tax Lot
- AC Paving - Permeable
- Concrete Paving - Permeable
- Concrete Paving — SEE DETAIL 5 ON SHEET AS1.2
- Concrete Paving - Vehicle Reinforced — SEE DETAIL 6 ON SHEET AS1.2
- Synthetic Turf Field With Subgrade Drainage
- LP1 Landscape Planting Area
- LP2 Landscape Planting Area At Grade
- LA Lawn
- LRA Lawn Repair Area
- CRA Crushed Rock - A 12 in depth
- CRB Crushed Rock - B Depth varies, blend with existing gravel parking lot and provide positive surface drainage following existing patterns.
- Centers of New Trees See Landscape Plan
- Existing Tree to Remain
- LT Field Lighting See Electrical Drawings
- BR Bike Racks (7) racks (14 parking spaces) at each location
- Existing Fence To Remain
- Decorative Metal Fence Height: 8 Feet
- Chainlink Fence Height: 8 Feet
- B Bench
- DD Deck Drain
- CB Catch Basin
- TD Trench Drain

SITE PLAN NOTES

1. All survey information provided by:
   KPFF Consulting Engineers
   111 SW Fifth Avenue, Suite 2400
   Portland, OR 97204
   P: 503.227.3251
   F: 503.274.4681
   Dated: September 17, 2010
2. Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damage to existing pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.
3. All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled. Obtain Landscape Architect's approval prior to installing any related work.
4. In addition to improvements shown, repair all areas disturbed or damaged by construction impacts to the condition that existed prior to Construction.



NORTH

24 AS1.1 GRADING PLAN

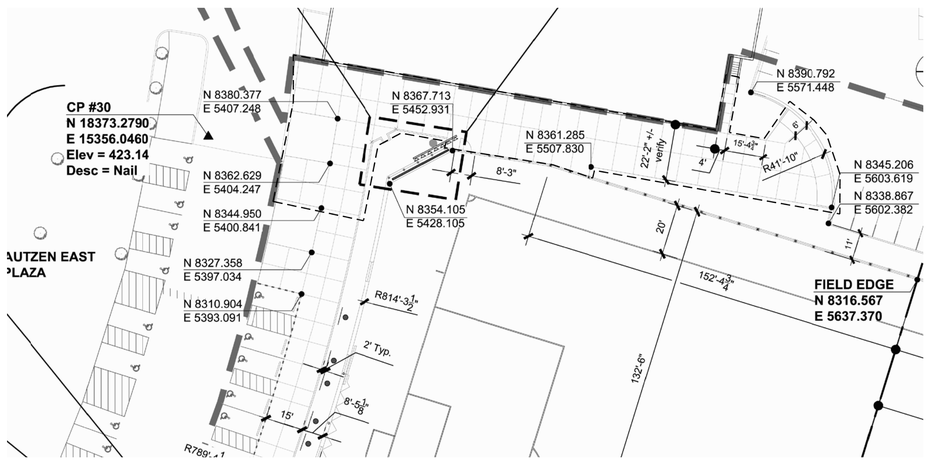
SCALE: 1" = 30'

LEGEND

- 418 Existing Contour
- Existing Tree to Remain
- Field Drainage Pipe See Civil Plans
- 20 Proposed Contour
- 20.90 Spot Elevation
- v/m 20.90 Verify/Match Existing Elevation See Note #5
- TC 20.90 / BC 20.40 Top of Curb Elevation / Bottom of Curb Elevation
- TW 20.90 / BW 20.40 Top of Wall Elevation / Bottom of Wall Elevation
- TS 21.85 / BS 21.65 Top of Top Step Elevation / Bottom of Bottom Step Elevatio
- DD 21.88 Deck Drain Rim Elevation
- CB 21.88 Catch Basin Rim Elevation
- TD RIM 21.85 Trench Drain Elevation
- FGR / FGS Finsh Grade of Rock - (Sports Field Aggregate) / Finish Grade of Subgrade
- Drainage Plane Arrows Indicate Direction of Flow
- BOUNDARY LIMITS OF NEW GRADING

GRADING NOTES

1. All survey information provided by:
   KPFF Consulting Engineers
   111 SW Fifth Avenue, Suite 2400
   Portland, OR 97204
   P: 503.227.3251
   F: 503.274.4681
   Dated: September 17, 2010
2. Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damage to existing pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.
3. Install new utilities so that rim elevations are flush with finish grades at pavement, lawn and plant beds. Adjust rim elevations of existing utilities accordingly.
4. All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled. Owner Representative's approval prior to installing any related work.
5. Verify existing elevations where new work abuts existing to remain. Notify Owner's Representative of any discrepancies.
6. In addition to improvements shown, repair all areas disturbed or damaged by construction impacts to the condition that existed prior to Construction.
7. Add 400.00 to all proposed spot elevations and contours shown on the plan.



41 AS1.1 LAYOUT PLAN - SITE

SCALE: 1" = 30'

LAYOUT PLAN NOTES

1. All survey information provided by:
   KPFF Consulting Engineers
   111 SW Fifth Avenue, Suite 2400
   Portland, OR 97204
   P: 503.227.3251
   F: 503.274.4681
   Dated: September 17, 2010
3. Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damage to existing pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.
4. Cease layout work and notify Owner's Representative of any discrepancies in Project Benchmarks, Control Points, coordinates, dimensions, degrees, locations, stakes, etc. Obtain approval prior to executing any layout work different from that shown or specified.
5. All coordinates and dimensions are at face of element (curb, walk, building, or wall) unless noted otherwise.
6. All concrete paving joints not specifically dimensioned shall be equally spaced between shown or noted limits.
7. All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled.
8. The concrete joint scoring shown at the Autzen east plaza is diagrammatic and subject to change based upon alignment with existing score joints in the plaza. Coordinate final joint layout with Landscape Architect's approval based upon field conditions.

SPECIAL NOTE

All coorcinate points, except control points, have been simplified. Add 10,000 to Northings and Eastings.

LEGEND

- Base Line
- 1' Dimension
- 1' Dimension from Existing Element, Baseline, or Building
- N / E Northing/Easting Coordinate Point
- N / E Northing/Easting Coordinate Point
- CP #27 N E Control Point Coordinate
- R1' Radial Dimension
- BOUNDARY LIMITS OF NEW LAYOUT

CONTROL POINTS

From Survey

CP #27
N: 16378.1230
E: 16007.0490
Elevation 420.63
Description: Nail

CP #28
N: 17976.2630
E: 16015.4200
Elevation 419.71
Description: Nail

CP #29
N: 18059.2516
E: 15217.3180
Elevation 421.61
Description: Nail

CP #30
N: 18373.2790
E: 15356.0460
Elevation 423.14
Description: Nail

VERTICAL DATUM: CITY OF EUGENE (NGVD 29)

BENCHMARK: 1-1/2 inch brass disk at the northeast corner of bridge over slough on south side of MLK Jr. BLVD, west of Autzen Stadium. City of Eugene Benchmark No. WK0332; Elevation = 416.20'

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

CONFORM SET
JANUARY 12, 2012

SITE PLANS - ALTERNATE 4
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

AS1.1

74-11105-00
11-04-2011
12-22-11
02-02-12 ATTACHMENT NO.A13

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LEGEND (FOR REFERENCE ONLY)

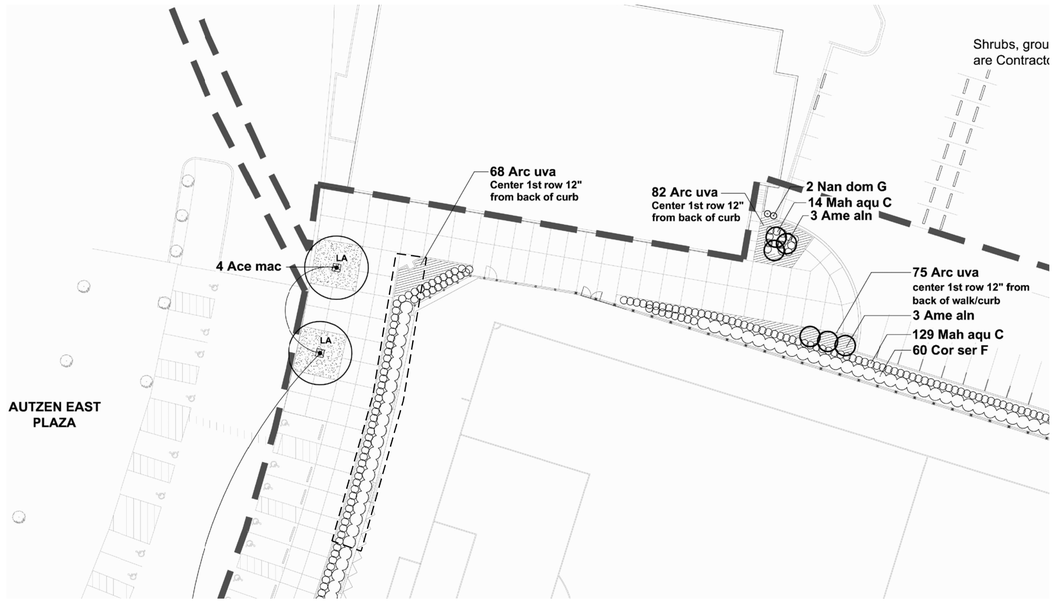
- Existing Tree to Remain
- Tree Center
- Existing Irrigation Mainline — Approximate location shown
- Irrigation Mainline — 4" diameter
- Irrigation Sleeve — 6" sleeve at quantity shown on Sheet L5.1 Irrigation Mainline Plan — 1 / L8.1
- Isolation Valve — 1 / L8.1
- Quick Coupler — 7 / L8.1
- Irrigation Zone Valve — 6 / L8.1
- **5-A** Zone Number - Autzen Controller (Located in maintenance building south of the East Plaza).
- **4-PK** Zone Number - PK Park Controller (located inside PK Park).

21 / AS1.2 IRRIGATION PLAN

SCALE: 1" = 30'

NOTE:

THIS PLAN SHOWS PLACEMENT OF EXISTING IRRIGATION LINES BY OTHERS. ACQUIRE AS-BUILTS FOR IRRIGATION LINES FROM OWNER BEFORE INSTALLING NEW UTILITY LINES AND CONDUITS AS SHOWN ON CIVIL AND ELECTRICAL PLANS. ENSURE THAT EXISTING IRRIGATION LINES REMAIN IN PLACE AND UNDISTURBED.



LEGEND (FOR REFERENCE ONLY)

- Existing Tree To Remain
- Landscape Plantings 18 inch soil depth — 6 / L8.1
- LA — Lawn / Lawn Repair Area 12 inch soil depth at new lawns. Add soil as needed at existing lawns.
- Proposed Trees — Provide 3 foot square mulch area at lawn — 9 / L8.1
- BOUNDARY LIMITS OF LANDSCAPE MODIFICATION

41 / AS1.2 LANSDCAPE PLAN - SITE

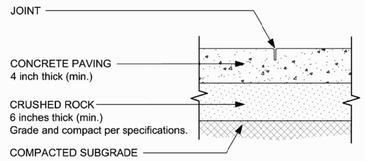
SCALE: 1" = 30'

NOTE:

THIS PLAN SHOWS LAYOUT OF EXISTING LANDSCAPE BY OTHERS. REMOVE VEGETATION WITHIN MARKED BOUNDARY TO ACCOMMODATE NEW CONDUIT AS SHOWN IN ELECTRICAL SITE PLAN. STORE AND PROTECT AFFECTED VEGETATION AND RETURN UNDAMAGED TO ORIGINAL LOCATION UPON COMPLETION OF ELECTRICAL SITE WORK.

PLANT LIST (FOR REFERENCE ONLY. SEE LANDSCAPE NOTE FOR PLANTS THAT ARE TO BE REMOVED TO ACCOMMODATE NEW CONDUIT)

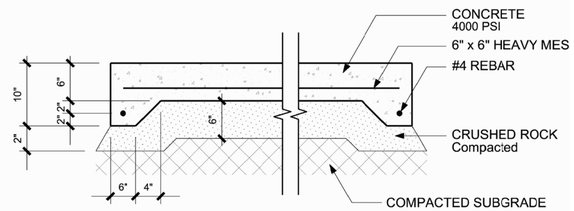
Qty	Key	Botanical Name	Common Name	Size	Condition	Spacing	Comments
Trees							
6	Ace mac	Acer macrophyllum	Bigleaf Maple	5" ca.	B&B or Container	as shown	Full, evenly branched
10	Bet jac	Betula jacquemontii	White Himalayan Birch	5" ca.	B&B or Container	as shown	Full, evenly branched
Accent Trees							
12	Ame aln	Amelanchier alnifolia	Serviceberry	3" ca.	B&B or Container	as shown	Full, evenly branched
5	Cor nut	Cornus nuttallii	Pacific Dogwood	3" ca.	B&B or Container	as shown	Full, evenly branched
Shrubs, Ground Covers, and Grasses							
1786	Arc uva	Arctostaphylos uva-ursi	Kinnikinnick	#2	container	18" o.c.	full and bushy
450	Mah aqu C	Mahonia aquifolium 'Compacta'	Compact Oregon Grape	#5	container	30" o.c.	full and bushy
16	Cal acu	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	#5	container	as shown.	full and bushy
196	Cor ser F	Cornus sericea 'Flaviramea'	Yellowtwig Dogwood	#5	container	54" o.c.	full and bushy
24	Gen tyd	Genista tydia	Lydia Broom	#5	container	36" o.c.	full and bushy
2	Nan dom G	Nandina domestica 'Gulf Stream'	Gulf Stream Heavenly Bamboo	#3	container	30" o.c.	full and bushy
29	Thu occ	Thuja occidentalis	Emerald Green Arborvitae	10' Tall	B&B or container	24" o.c.	full and bushy
23	Rho S	Rhododendron 'Sir Charles Lemon'	Sir Charles Lemon Rhododendron	#5	B&B or container	42" o.c.	full and bushy
132	Vib dav	Viburnum davidii	David Viburnum	#5	container	42" o.c.	full and bushy



5 CONCRETE PROFILE - STANDARD

NTS

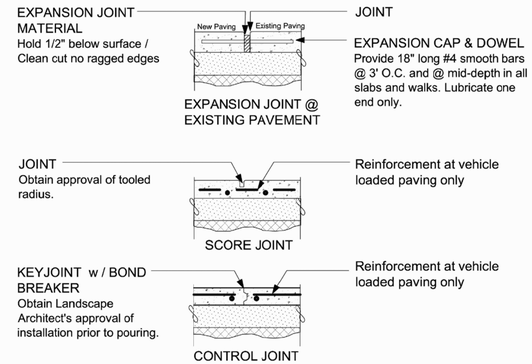
NOTE: SEE 7/AS1.2 FOR JOINT DETAILS



6 CONCRETE PROFILE - VEHICLE REINFORCED

NTS

NOTE: SEE 7/AS1.2 FOR JOINT DETAILS



NOTES:

1. Locate Joints where shown on Site Plan and as Specified.
2. Provide Sample of concrete joint finishing tools for approval of joint radius and joint depth.

7 CONCRETE JOINTS

NTS

REGISTERED ARCHITECT
ROBERT J. ESAU
PORTLAND, OR
STATE OF OREGON

SITE PLANS AND DETAILS - ALTERNATE 4
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012

AS1.2

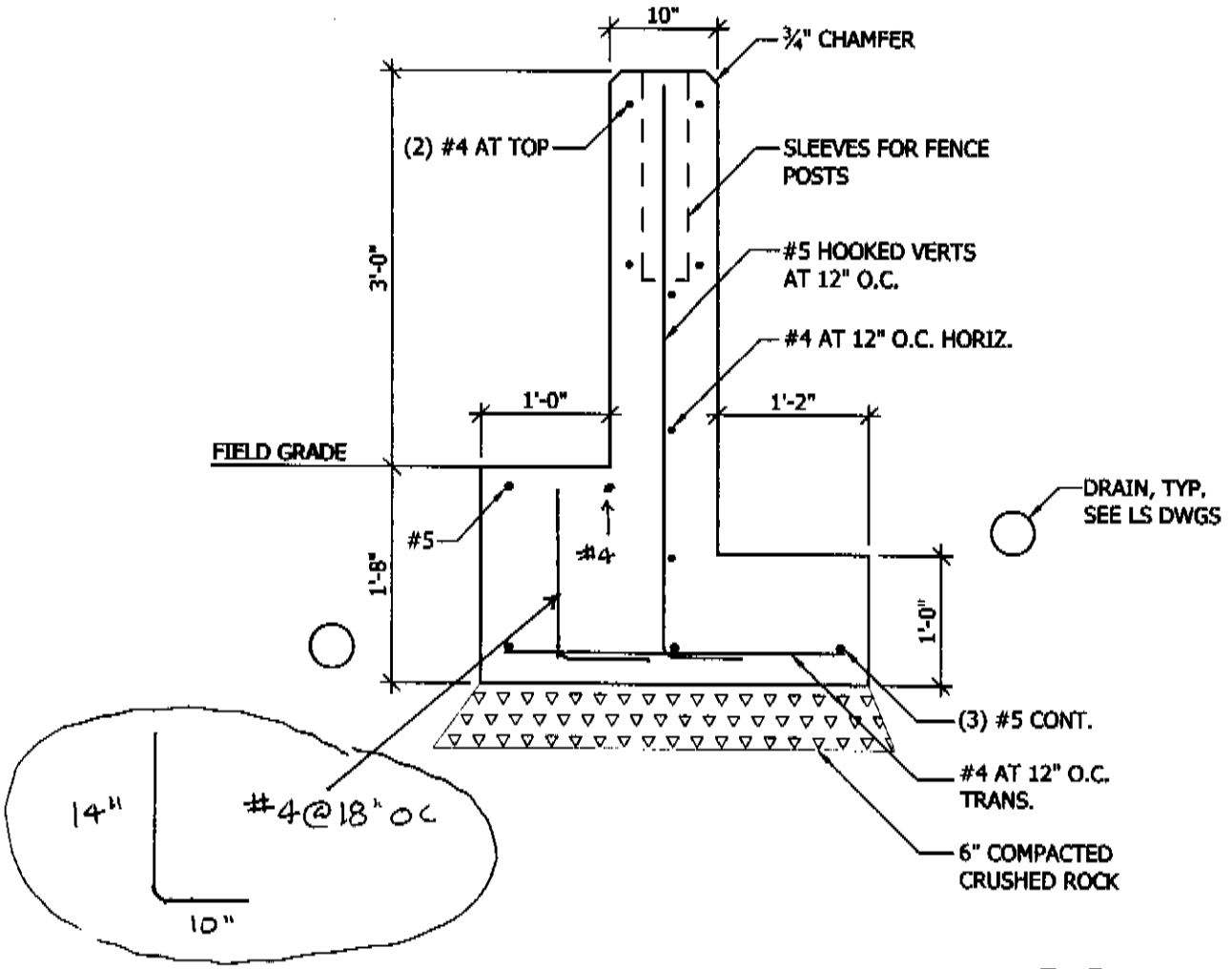
74-11105-00
11-04-2011
12-22-11
02-02-12 ATTACHMENT NO. A14

DLR Group
Architecture Planning Interiors

M. R. RICHARDS ENGINEERING INC.
100 WEST 13TH AVENUE SUITE 210
EUGENE, OREGON 97401
541 687-0129 FAX 541 687-0133
www.mrrichards.com

ATTACHMENT S-1 TO ADDENDUM CC-2
DATED FEBRUARY 2, 2012

REGISTERED PROFESSIONAL ENGINEER
OREGON
MARK R. RICHARDS
RENEW: 12-31-08



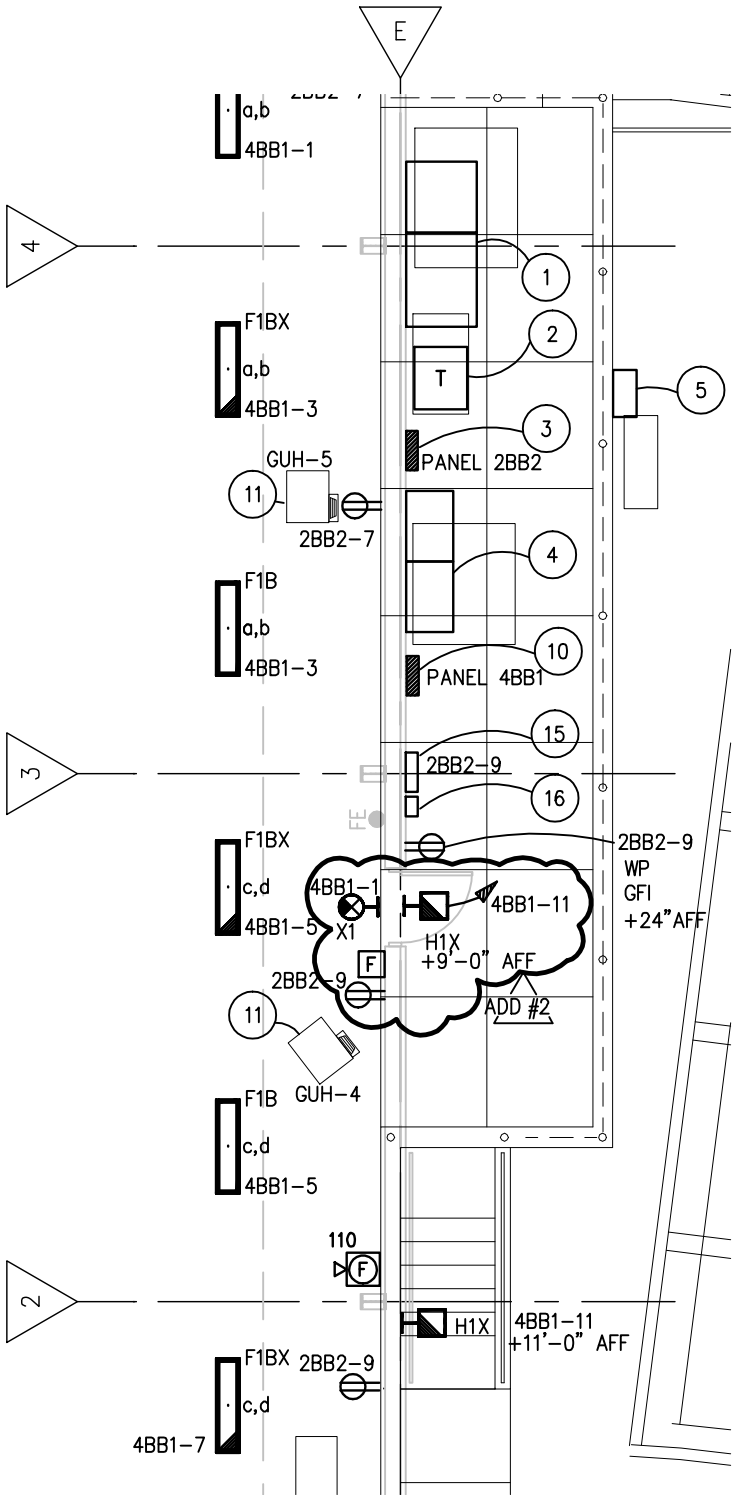
4 / L12 SECTION: PERIMETER WALL
Scale 3/4" = 1'-0"

CCR #1

CAMERON MCCARTHY GILBERT & SCHEIBE LANDSCAPE ARCHITECTURE

OREGON BASEBALL PARK - PHASE 1
UNIVERSITY OF OREGON
Eugene, Oregon
Project No. 0807 E

Date: 08.29.08
Dwg No. RL17



PROJECT NORTH

NORTH

PARTIAL ELECTRICAL PLAN

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

Attachment No. E1
to ADD-2
Dated: February 2, 2012

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74-11105-00
11-04-2011

PARTIAL ELECTRICAL PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
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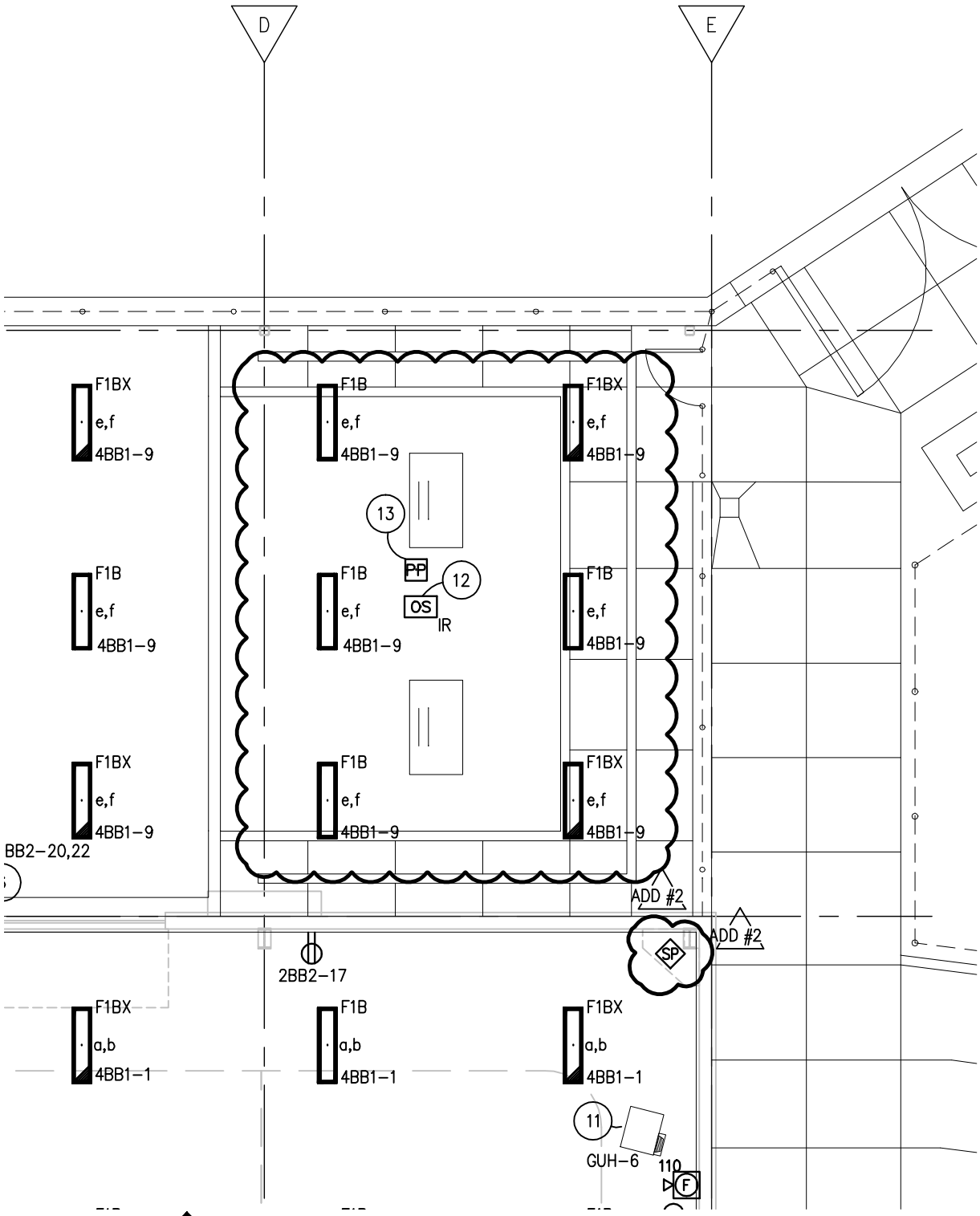

PARTIAL ELECTRICAL PLAN

SCALE: 1/8" = 1'–0"

Attachment No. E2
to ADD-2
Dated: February 2, 2012

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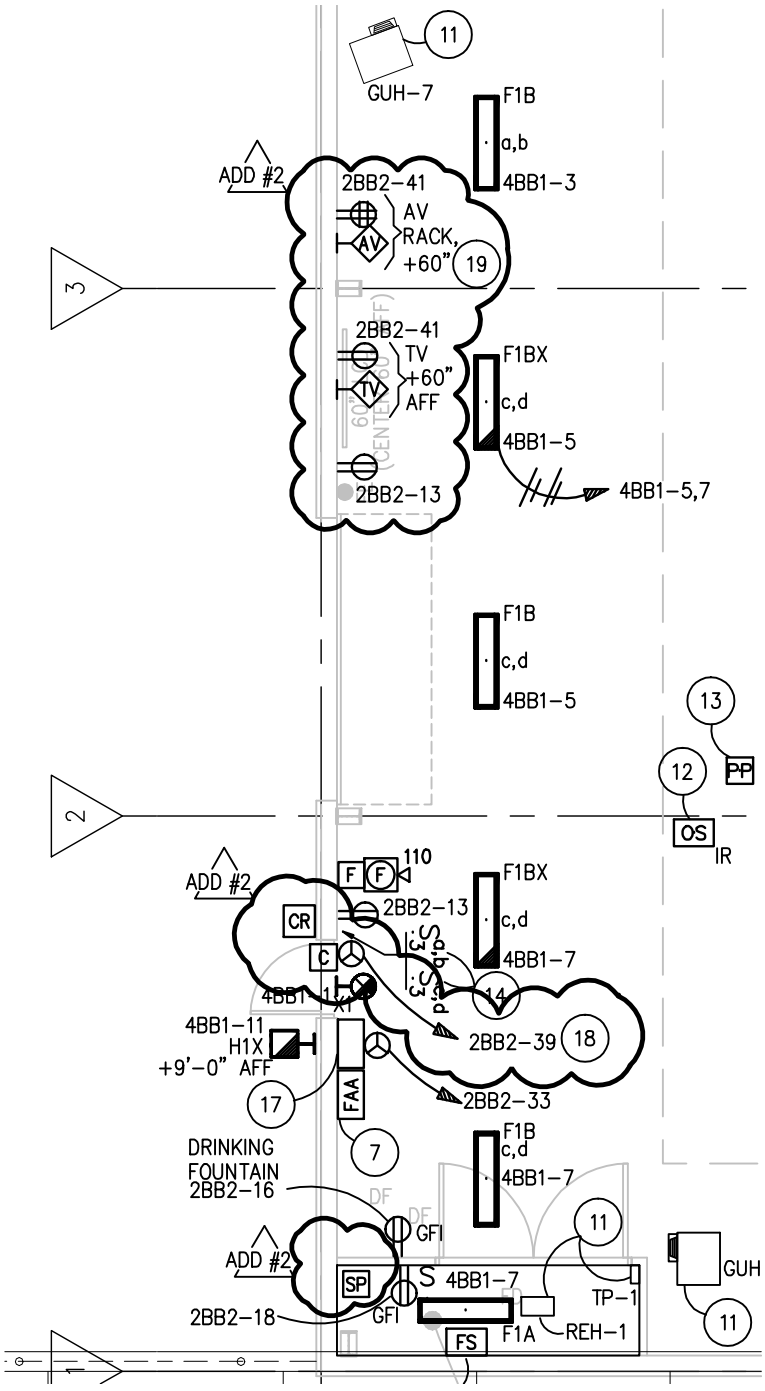
E1.1

74-11105-00
11-04-2011

PARTIAL ELECTRICAL PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



TO FIRE ALARM BATTERY CABINET.

18 PROVIDE DEDICATED 20A, 120V POWER CIRCUIT TO DOOR CONTROL. SEE ACCESS COTROL DETAIL FOR CONDUITS REQUIREMENTS. ADD #2

19 PROVIDE ALL CONDUITS/PATHWAYS, WIRING/CABLING, DEVICES AND DEVICE BOXES FOR AV EQUIPMENT, TV AND SPEAKERS FOR A COMPLETE SYSTEM PER SPECIFICATION 272250 AND MANUFACTURERS RECOMMENDATION. ALL WIRING/SYSTEM CABLING SHALL BE CONCEALLED AND TERMINATED AT A DEVICE BOX PROVIDED WITH APPROPRIATE TERMINATION CONNECTIONS (HDMI, S-VIDEO, RCA, F-CONNECTORS,ETC) AND MATCHING FACEPLATE(S) AS REQUIRED. SPEAKERS (NOT SHOWN) SHALL BE LOCATED AT SHELVES IN THE CORNERS OF THE ROOM (+96" AFF) PER ARCHITECTURAL. COORDINATE ALL DEVICE BOX REQUIREMENTS AND RACEWAY ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.

LEGEND

AV AV RACK MOUNTED SYSTEM TO INCLUDE TO FOLLOWING EQUIPMENT:
- HOFFMAN DVR SECURITY WALL-MOUNTED RACK #DVR6U-E333KEY-A4AXXFNGQ WITH VELCRO STRAPS
- RACK MOUNTED 200W AMPLIFIER TO SUPPORT FOUR (MIN) 4-OHM SPEAKERS
- RACK MOUNTED DIGITAL TV-TUNER
- RACK MOUNTED 6-CHANNEL AUDIO MIXER PER SPEC 272200
- RECESSED MULTI-GANG, MULTI-MEDIA DEVICE BOX WITH APPROPRIATE TERMINATIONS/JACKS FOR ALL REQUIRED A/V OUTPUTS (S-VIDEO, HDMI, AUDIO [LEFT, RIGHT, FRONT, REAR], AUX, MIC, ETC) WITH CONCEALED RACEWAYS SIZED FOR CABLING PLUS 25% SPARE CAPACITY TO VIDEO MONITOR AND SPEAKERS. ADD #2

TV RECESSED MULTI-MEDIA DEVICE BOX WITH CONCEALED RACEWAYS, SIMILAR TO 'AV DEVICE BOX' ABOVE WITH APPROPRIATE TERMINATIONS/JACKS FOR MONITOR CONNECTIONS. 37" (DIAGONAL) PLASMA MONITOR WITH 1080I HD RESOLUTION (MIN)

SP SINGLE GANG DEVICE BOX WITH COVERPLATES FOR SPEAKER POSTS (+/-) OR RCA-TYPE JACKS FOR SPEAKER TERMINATIONS. PROVIDE SPEAKERS PER SPEC 272200 AND TERMINATE AS REQUIRED.

PROJECT NORTH

NORTH

PARTIAL ELECTRICAL PLAN

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

Attachment No. E3 to ADD-2 Dated: February 2, 2012

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E1.1

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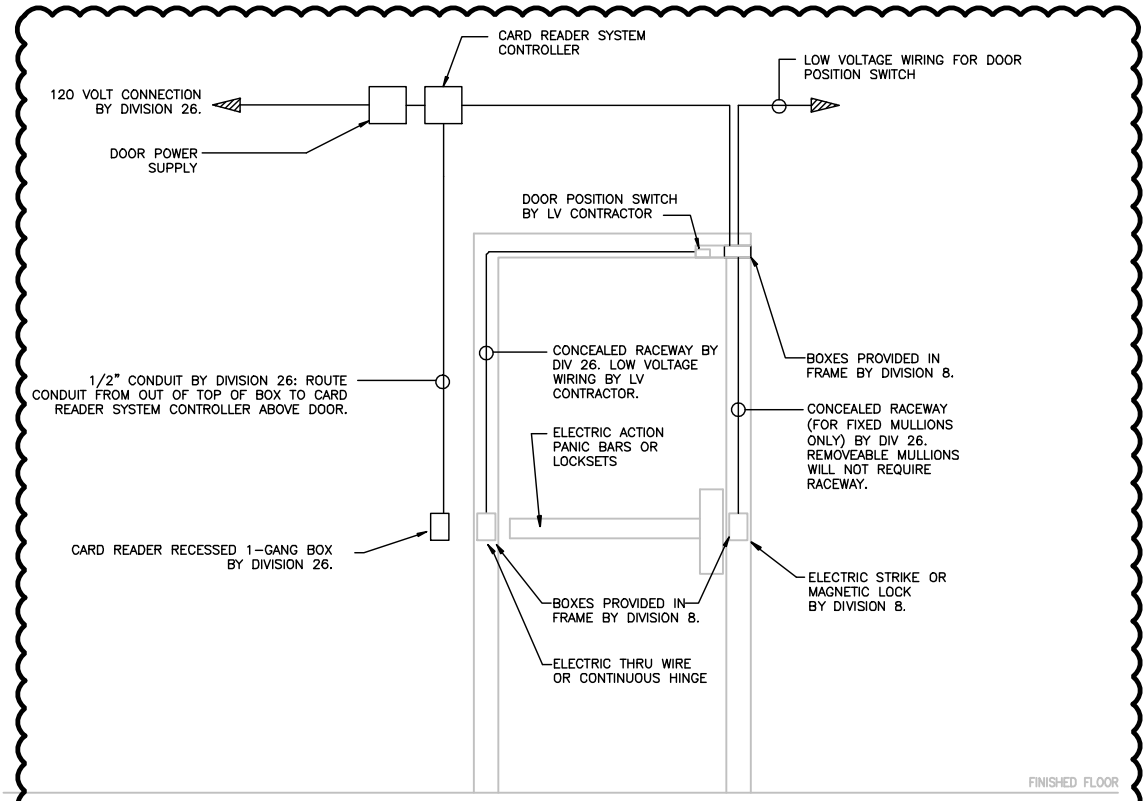
PARTIAL ELECTRICAL PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



ACCESS CONTROL DETAIL

SCALE: NO SCALE

1
E1.1 | E1.1

NOTES:

1. CONDUITS AND BOXES INDICATED WITHIN FRAMES APPLY TO HOLLOW METAL DOORS ONLY.
2. DOOR HARDWARE CONFIGURATIONS WILL VARY. ILLUSTRATION IS A GENERAL REPRESENTATION OF CONDITIONS. REFER TO DIVISION 8 DOOR HARDWARE SETS FOR INDIVIDUAL HARDWARE REQUIREMENTS.
3. DIVISION 26: PROVIDE ALL ROUGH-IN (BOTH LINE AND LOW VOLTAGE) AND LINE VOLTAGE CONNECTIONS AT ALL COMPONENT LOCATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. INSTALLATION MEANS AND METHODS WILL VARY DEPENDING ON DOOR CONFIGURATIONS. CONCEAL ALL CARD READER ROUGH-IN BOXES, CONDUITS TO BOXES, CONDUITS TO DOOR HARDWARE AND FRAMES, AND CONDUITS TO/FROM POWER SUPPLIES (AND CARD READER MODULES) IN WALLS AND CEILINGS. EXPOSED RACEWAY IN NEW CONSTRUCTION IS UNACCEPTABLE.

ADD #2

Attachment No. E4
to ADD-2
Dated: February 2, 2012

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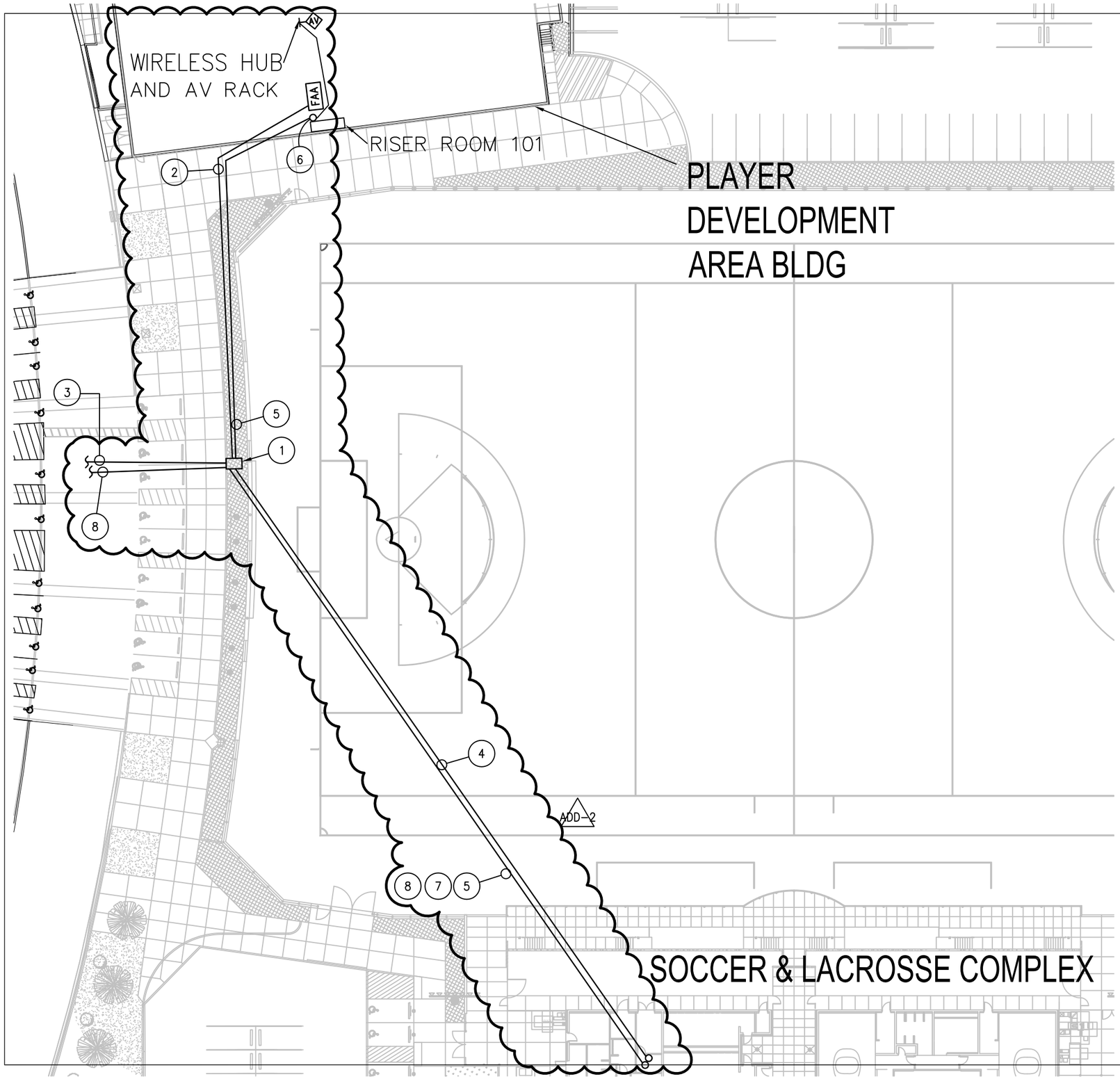
E1.1
74-11105-00
11-04-2011

PARTIAL ELECTRICAL PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

CONFORM SET
JANUARY 12, 2012



KEY NOTES:

1. CONCRETE VAULT WITH TERMADUCTS FOR FIRE ALARM CONDUITS IS PROVIDED UNDER A SEPARATE CONTRACT.
2. PROVIDE (2) 1" PVC CONDUITS BURRIED 24" DEEP MIN. FOR FIRE ALARM CONNECTIONS FROM RISER ROOM 101 IN PDA BUILDING TO EXISTING VAULT. PROVIDE ABS TO PVC TRANSITION CEMENT FOR SECURING CONDUIT TO TERMADUCTS IN THE VAULT.
3. PROVIDE FIRE ALARM CONNECTIONS AND SUPERVISION FROM PDA BUILDING TO EXISTING FIRE ALARM CONTROL PANEL LOCATED IN NORTH TICKET BOOTH AT AUTZEN STADIUM USING EXISTING CONDUITS. APPROXIMATE LENGTH BETWEEN FIRE ALARM VAULT AND NORTH TICKET BOOTH IS 900 FEET.
4. PVC CONDUITS AND WIRE FOR FIRE ALARM CONNECTIONS AND SUPERVISION FROM TELECOM ROOM IN SOCCER/LACROSSE COMPLEX TO EXISTING FIRE ALARM CONTROL PANEL LOCATED IN NORTH TICKET BOOTH AT AUTZEN STADIUM ARE PROVIDED UNDER A SEPARATE CONTRACT.
5. INSTALL FIBER OPTIC FROM THE WIRELESS HUB IN PDA TO NEAREST SOCCER & LACROSSE COMPLEX FIBER PATCH PANEL AS REQUIRED. FIBER SHALL BE SINGLE MODE, 24–STRAND, OUTSIDE PLANT WITH ALL DIELECTRIC POLYETHELENE JACKET. INDOOR FIBER SHALL BE MULTI–MODE OM2, LASER OPTIMIZED 50 MICRON, PLENUM RATED. PROVIDE ST CONNECTORS. USE ONE SPARE OF (1) 1" PVC CONDUIT DEDICATED TO FIRE ALARM BETWEEN LOW VOLTAGE VAULT AND PDA BUILDING. PROVIDE (1) 1" EMT CONDUIT FOR INDOOR FIBER TO PDA WIRELESS HUB.
6. USE (1) 1" PVC CONDUIT DESCRIBED IN NOTE 2 BETWEEN LOW VOLTAGE VAULT AND PDA BUILDING. PROVIDE (1) 1" EMT CONDUIT FOR INDOOR FIBER TO PDA WIRELESS HUB.
7. USE PVC CONDUIT PROVIDED UNDER A SEPARATE CONTRACT.
8. FIBER FROM MOSHOFSKY CENTER BUILDING 265 ROOM 231A TO TELECOMMUNICATIONS CLOSET 133 IN SOCCER & LACROSSE COMPLEX TO BE PROVIDED UNDER A SEPARATE CONTRACT.

ADD–2

Attachment No. E5
to ADD-2
Dated: February 2, 2012

CONFORM SET
JANUARY 12, 2012

ELECTRICAL SITE PLAN
PLAYER DEVELOPMENT AREA
UNIVERSITY OF OREGON

ES1.0

74-11105-00
11-04-2011

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