ADDENDUM NO. 2

Issued: October 25, 2016

Project: Joplin Early Childhood Center
Site Legal Description:
JOP MISC
BEG 1360.93' S & 50' E NW
COR SE E 456.91' N 318.78'
W 456.91' S 318.78' TO POB

Project No. 16054

Owner: Joplin Schools
310 West 8th Street
Joplin, MO 64801

Bidding Documents Issued: September 30, 2016

This Addendum includes these 13 pages and the following attachments:

Project Manual:
Re-issued Section 000110 "Table of Contents" consisting of 6 pages
Section 008100 – Prevailing Wage Determination modification sheets consisting of 6 pages.
New Section 072419 "Exterior Insulation and Finish System (EIFS)" consisting of 8 pages.
Re-issued Section 087100 "Door Hardware" consisting of 26 pages.
New Section 313200 "Subsoil Stabilization" consisting of 8 pages.
Pre-Construction Conference Notes consisting of 5 pages.
Civil Engineers Addendum 2 - Anderson Engineering consisting 3 pages, 7 drawings and 1 Detail Revisions
Landscape Engineers Addendum 2 – Land3Studio consisting of 1 page and 11 drawings
MEP Engineers Addendum 2 – Smith & Boucher consisting of 2 pages, Sections 271323 and 282300 and 5 drawings.

Drawings:
Revised Sheets: G001, G101, A101A, A101B, A101C, A121C, A141, A201, A202, A203, A361, A362, A363, A364, A501, A504, A601C, A621, A622, A623, A624, A625, A661, A681, A682 and A811

GENERAL – BIDDER'S QUESTIONS

G1 QUESTION: THE SPECIFICATIONS STATE A "LEAK DETECTION SYSTEM INSTALLER" IN SPEC SECTION 075423-1. IS THIS PROJECT NEEDING A PERMANENTLY EMBEDDED LEAK DETECTION SYSTEM OR A MEMBRANE INTEGRITY TEST?

G1.1 Answer: This requirement is deleted from the project in Addendum 2. Reference spec section075423-1.

G2 QUESTION: WHERE IS THE FLAGPOLE LOCATION INDICATED?

G2.1 Answer: Refer to sheet L100 for flag pole location. Addendum 1 contained information for the base detail on sheet G101. (Also included in Addendum 2)

G3 QUESTION: WHERE ARE THE SPECIFICATIONS FOR THE SIGNAGE?

G3.1 Answer: They were issued in Addendum 1.

G4 QUESTION: WHERE IS FRAME TYPE 25 LOCATED?

G4.1 Answer: Frame type 25 has been removed from the project. To clarify all clearstory frame locations, clearstory plans have been issued on the floor plan sheets in Addendum 2. Additionally, sheet A504 has been re-issued with a number of clarifications to correct inconsistencies.

G5 QUESTION: CLARIFY HM FRAME PAINT COLOR NOTES ON DETAIL A4/A622.

G5.1 Answer: Clarified in Addendum 2.

G6 QUESTION: CLARIFY WHAT APPEAR TO BE ALUMINUM FRAMES IN ELEVATION E4/A622 AND OTHER ELEVATIONS.

G6.1 Answer. These are HM frame type 31 at stud walls and 32 at masonry walls. They have been tagged on the plans in and elevated on sheet A504 in Addendum 2.

G7 QUESTION: CLARIFY FRAME TYPES IN DETAIL N13/A624.

G7.1 Answer: These frame types have been clarified in Addendum 2. Reference the floor plans and sheet A504.

G8 QUESTION: DOOR A101B IS LISTED ON THE DOOR SCHEDULE AS A TYPE "B" DOOR, IS THIS COORECT?

G8.1 Answer: This error has been corrected. Reference revised door schedule in Addendum 2.

G9 QUESTION: CONCERNING GLAZING DESIGN, PLEASE CLARIFY THE REQUIREMENT FOR SIGNED AND SEALED CALCULATIONS FOR DELEGATED DESIGN.

G9.1 Answer: Signed and sealed engineering calculations are required for the framing systems, not by glass manufactures. Reference the revised relevant sections in Addendum 2.

G10 QUESTION: WHAT IS ACTUALLY REQUIRED FOR THE MOCK UP AND FILD TESTING WHERE LISTED IN SECTION 084113-1.7?

G10.1 Answer: Refer to revised section 084113-1.7 and the revised curtain wall sections in Addendum 2 for clarification.

G11 QUESTION: ARE NFRC PERFOMANCE LABELS REQUIRED?

G11.1 Answer: No, show product performance in the shop drawings. Refer to revised relevant sections in Addendum 2.

G12 QUESTION: FOR THE CURTIAN WALL, THE SPECIFICATIONS INDICATION A 6" DEPTH, BUT THE DRAWINGS SHOW LARGER, PLEASE CLARIFY.

G12.1 Answer: The curtain wall depth is expected to be 7 ¼" to 7 ½" deep. No support steel is desired. Refer to revised details and specifications in Addendum 2.

G13 QUESTION: THE METAL ROOFING SPEC SECTION 074113 DOES NOT LIST INSULATION. FROM THE PLANS, THE INSULATION APPEARS TO BE 5.5", MATCHING THAT OF THE MEMBRANE ROOFING. IS THIS THE CASE?

G13.1 Answer: Roofing insulation under the metal roof is called out as 072100.A04. Refer to that section for requirements.

G14 QUESTION: WHAT KIND AND THICKNESS OF COVER BOARD IS WANTED AT THE METAL ROOFING?

G14.1 Answer: Refer to revised details provided in Addendum 2 – overboard is clarified and ties back to section 061600.A06.

G15 QUESTION: THE METAL ROOFING SPEC CALLS FOR CURVED ROOFING. THE ROOF DOES NOT APPEAR TO BE CURVED. ARE THE REGULAR BERRIDGE ZEE-LOCK ROOF PANELS APPROPRIATE?

G15.1 Answer: Refer to revised metal roofing section in Addendum 2 for clarifications. There is no curved metal roof on this project.

G16 QUESTION: THE PRICE FOR EACH ITEM WILL NEED TO BE 'DELIVERED' MEANING THAT THE PRICE OF EACH ITEM WILL BE AS IF IT IS PACKAGED AND SHIPPED INDIVIDUALLY? SHOULD I PROVIDE A 'PACKAGE' PRICE AS WELL BECAUSE IT WILL SAVE HUNDREDS IF NOT WELL OVER $1,000 TO PACKAGE AND SHIP AS A PACKAGE?

G16.1 Answer: Provide each unit price as if it will be shipped individually.

G17 QUESTION: THE PLAY AREA FOR THE JOPLIN EARLY CHILDHOOD CENTER BID. SHEET L102 SHOWS THE BERLINER/UDP ORBIT.01 BALANCE BEAM IN THE LAYOUT BUT IT IS NOT LISTED IN THE SPECIFICATIONS. CAN YOU CLARIFY IF I SHOULD INCLUDE IT IN PRICING TO GC'S OR NOT?

G17.1 Answer: This has been clarified in Addendum 1

G18 QUESTION: SECTION 07 54 23 PAGE 4 PARAGRAPH 2.3.A STATES ASTM 6878 (THIS IS NORMALLY AS STANDARD TPO SHEET) THEN THE PARAGRAPH GOES ON TO SAY FLEXIBLE FABRIC-BACKED TPO SHEET. STANDARD .060 TPO IS NOT FABRIC-BACKED. BUT THERE IS A SHEET CALLED FLEECE BACK. THIS SHEET IS NORMALLY 115 MIL.

G18.1 Answer: Refer to revised section 075423 in Addendum 2 for clarification. The TOP roof will be a standard TPO thickness .060 and will not be fabric backed.

G19 QUESTION: WHAT ARE THE SPECIFICATIONS OF THE "DIVIDERS" SEPARATING THE URINAL AND TOILET? IS THIS A SINGLE PANEL SUPPORTED BY A POST/PILASTER, AND WHAT ARE THE DIMENSIONS OF THE PANEL?

G19.1 Answer: This screen is to be the same as the urinal screen in materiality and size as in room C108. It will be wall mounted lower as directed by the Architect in the field,

G20 QUESTION: SIGN TYPE DIMENSIONS APPEAR TO BE INACCURATE AND NOT IN COMPLIANCE WITH ADA.

G20.1 Answer: Refer to the revised signage type sheet in Addendum 2 for revisions.

G21 QUESTION: IN AREA B CLARIFY ALUMINUM FRAMES 12 AND 32.

G21.1 Answer: Refer to the revised floor plans and sheet A504 in Addendum 2.

G22 QUESTION: IN AREA B CLARIFY FRAME TYPES AT DOORS B115A, B125A, AND B130A.

G22.1 Answer: Refer to the revised door schedule in Addendum 2.

G23 QUESTION: IN AREA C CLARIFY FRAME TYPES AT DOORS C122A, C123A, C130A, C131A.

G23.1 Answer: Refer to the revised door schedule in Addendum 2.

G24 QUESTION: WHAT ARE THE FRAME TYPES ON THE NORTH WALL OF C132?

G24.1 Answer: Refer to the revised floor plan in Addendum 2.

G25 QUESTION: WHAT ARE THE DIMENSIONS OF THE SKYLIGHTS? IS THE REQUIRED WOOD BLOCKING BY THE ROOFER OR THE SKYLIGHT SUPPLIER? WHO WILL CUT THE HOLE FOR THE SKYLIGHT?

G25.1 Answer: The dimensions of the skylight are determined by the skylight specification. The wood blocking is by the skylight supplier. The responsibility for who will cut the hole for the skylight will be determined by the General Contractor.

G26 QUESTION: THERE WERE A NUMBER OF STRUCTURAL CLARIFICATIONS IN ADDENDUM 1. WILL SHEETS BE ISSUED TO SHOW THE CHANGES?

G26.1 Answer: Revisions are shown in re-issued sheets in Addendum 2.

G27 QUESTION: ON ADDENDUM SHEET C104 NOTE D17 CALLS OUT HDPE PIPE BUT SAYS 4X4? D15 SAYS IT'S HDPE 18". IS D17 24" PER THE NOTE ABOUT THE DOWNSPOUT DRAINS ON THE NORTH SIDE OF THE BUILDING?

G27.1 Answer: D17 should be a 18" HDPE Pipe. The note for the downspout collectors will be changed to say dive pipe into 18" storm pipe.

G28 QUESTION: THE WOOD PANELING SPECS SAY THE SHOP/INSTALLER NEEDS TO BE AWI CERTIFIED. I'M NOT SEEING ANYTHING ABOUT THE MANUFACTURED CASEWORK OR INTERIOR ARCHITECTURAL WOODWORK BEING AWI CERTIFIED. IS EVERYTHING GOING TO BE AWI CERTIFIED? IF NOT, CAN WE WAIVE THE AWI CERTIFICATION ON THE WOOD PANELING?

G28.1 Answer: Addendum 2 removes the requirement for AWI certification from the project.

G29 QUESTION: ALTERNATE 7 – THE WAY I UNDERSTAND IT IS THE MODULAR BLOCK RETAINING WALL IS THE BASE BID, THE CAST-IN-PLACE RETAINING WALL IS THE ALTERNATE. IS THIS CORRECT?

G29.1 Answer: The base bid is the modular block retaining wall. Alternate 7 is contractor's option to provide a wall per the performance specifications. Clarification is added via Addendum 2.

G30 QUESTION: WILL YOU REQUIRE EXPANSION JOINT BETWEEN THE SIDEWALK AND THE CURB & GUTTER

G30.1 Answer: Yes, refer to revised elevation sheets and their sheet notes in Addendum 2.

G31 QUESTION: ARE THERE ANY SPECIFICATIONS FOR THE 072413.A01 MATERIAL CALLED OUT ON A201?

G31.1 Answer: These notes have been updated in Addendum 2 to read 072419.A01. Section 072419.A01has been issued as part of Addendum 2.

G32 QUESTION: REFERRING TO SHEET G001, CAN DIMENSIONS BE PROVIDED FOR THE TRASH ENCLOSURE FOR ITS OVERALL SIZE.

G32.1 Answer: The trash enclosure is 12' – 0" wide (inside face of block to inside face of block. It is 12' – 8" deep to the inside face of block.

G33 QUESTION: REFERRING TO A203 DETAIL – J8, CAN MORE INFORMATION BE PROVIDED FOR THE CUSTOM 3/8" ALUMINUM SILHOUETTES?

G33.1 Answer: The silhouettes will be of children playing and will not exceed the sizes shown on the elevations. Vector art will be provided by the architect. The information has been added to the building elevations in Addendum 2.

G34 **QUESTION: THE CEILING CLOUDS SHOWN ON A121C ARE DIFFERENT THAT THOSE SHOWN ON THE ENLARGED PLAN OF THIS SAME AREA L7/A434. A121C SHOWS (14) CLOUDS. A434 SHOWS 11 CLOUDS. WHICH ONE IS CORRECT?**

G34.1 Answer: A434 is correct. Sheet A121C is corrected in Addendum 2.

G35 **QUESTION: REFERENCE SHEET A101A. THE EXTERIOR WINDOW REFERENCES FRAME TYPE 2. I WONDER IF THIS IS CORRECT BECAUSE FRAME 2 ON SHEET A504 IS MUCH LARGER AND HAS A DOOR IN IT.**

G35.1 Answer: Frame 02 is correctly tagged in plan and elevated on sheet A504. The door is omitted on the frame elevation for clarity.

G36 **QUESTION: REFERENCE SHEET A902. PLEASE TAKE A LOOK AT THE EXTERIOR WINDOW TAGS ON H9/A902. I'M WONDERING IF THEY ARE CORRECT. TYPE 14 DOESN'T SEEM TO JIVE WITH WHAT I'M SEEING. ALSO, I'M NOT EVEN FINDING TYPES 32 AND 35 ON SHEET A504. I'M THINKING IT SHOULD PROBABLY BE 3 GROUPS OF THE 6,9,8,13 SEQUENCE SIMILAR TO ADJACENT CLASSROOMS A121, A125, A129.**

G36.1 Answer: Refer to revised sheet A902 in Addendum 2 for clarifications.

G37 **QUESTION: THE BERLINER WHITEWATER IS LISTED AS THE .03 (3 RAILS) ON THE BID FORM BUT IT IS SHOWN ON THE DRAWINGS AND LISTED IN THE SPECIFICATIONS AS THE .04 (4 RAILS). CAN YOU CLARIFY WHICH ONE IS TO BE USED.**

G37.1 Answer: Addressed in Addendum 1.

G38 **QUESTION: I'VE ASKED BERLINER AND BURKE DESIGNERS TO REVIEW PLANS AND INSURE THAT ALL PLAY PIECES FIT AS SHOWN ON THE PLANS. BURKE HAS NOT GOTTEN THIS DONE YET BUT A DESIGNER FROM BERLINER REPLIED: "ALL LOOKS GOOD EXCEPT THE PALMETTO SAUCER. EDGE OF SAFETY ZONE FALLS A LITTLE OUTSIDE OF WHERE THEY ARE SHOWING ARTIFICIAL TURF. CHECK OUT THE PDF I ATTACHED SHOWING THE OVERLAP. IF YOU WANT TO HAVE THE LA ADJUST THEIR PLAN ACCORDINGLY, I HAVE ALSO ATTACHED THE PALMETTO SAUCER CAD FILE FOR THEM TO USE FOR DESIGN."**

G38.1 Answer: Addressed in Addendum 2.

G39 **QUESTION: TO ENSURE THAT ALL PLAY EQUIPMENT FITS CORRECTLY, BURKE IS REQUESTING A CAD FILE TO MATCH THE PLAY AREA AS SHOWN ON SHEET L102. IS THIS SOMETHING YOU CAN PROVIDE? IF NOT, THEY CAN TRACE THE PLAN BUT THEY WON'T BE ABLE TO ENSURE THAT THE SCALE IS EXACT. PLEASE ADVISE.**

G39.1 Answer: We do not provide CAD files for the Landscape Drawings. The PDF files are to scale.

G40 **QUESTION: IS IT PERMISSIBLE TO USE DOUBLE T'S AND PRECAST WALLS IN LIEU OF THE HOLLOW CORE PLANKS AND MASONRY WALLS FOR THE HIGH WIND AREAS?**

G40.1 Answer: No. Please bid as shown in the documents and specifications.

G41 **QUESTION: REGARDING PL-1 THROUGH PL-7 ON SHEET A681, NONE OF THE COLORS EXIST ON THE WILSONART WEBSITE. PLEASE CLARIFY INTENT.**

G41.1 Answer: These are a recoloring of Wilsonart's verdigris crown laminate (7 different colors total).

G42 **QUESTION: PL-1 THRU PL-7 ALL REFERENCE THE SAME VENDOR COLOR CODE Z4271. PLEASE CLARIFY INTENT.**

G42.1 Answer: The pattern is identical for all (7) colors. Only the color changes.

G43 QUESTION: HAVING TROUBLE FINDING PL- 1 THRU PL-7. PLEASE CLARIFY.

G43.1 Answer: REF: J11/A621, which has a note that directs you to the finish plans for countertop plastic laminates. These are also found on some of the doors. REF: sheet A1/A501 and the Door Schedule.

G44 QUESTION: IF HIGH LEVELS OF LEAD ARE ENCOUNTERED ON THE SITE WHO IS RESPONSIBLE FOR REMEDIATION?

G44.1 Answer: In the event of any toxic materials on site, the owner is responsible for it's safe removal.

G45 QUESTION: ARE HIGH LEVELS OF LEAD ANTICIAPTED ON THE SITE?

G45.1 Answer: Refer to section 008400 – 1.2.C. The HUD Environmental Assessment – Appendix F-Site Contamination Report is available upon request from the City of Joplin for Contractor's use and reference.

G46 QUESTION: THERE IS A GREASE TRAP INDICATED ON SHEET C106. THE PLANS SAY REFER TO MECHANICAL PLANS FOR SIZE REQUIREMENTS, BUT MECHANICAL PLANS DO NOT HAVE SIZE REQUIREMENTS FOR GREASE TRAP. WHAT IS THE SIZE OF THE GREASE TRAP?

G46.1 Answer: The grease trap is no longer included in the project and has been removed from sheet C106. The grease trap will be installed at a later date when a commercial dishwasher is added to the kitchen/receiving area.

G47 QUESTIONS: IT APPEARS HARDWARE SCHEDULE IS NOT FOLLOWING DISTRICT STANDARDS. PLEASE CLARIFY.

G47.1 Answer: The hardware schedule has been revised in Addendum 2 to reflect the district standards accurately.

G48 QUESTION: WHERE IS THE IMPACT RESISTANT GYP LOCATED?

E1.2 Answer: Impact resistant gyp is not required and has been removed from the specifications in Addendum 2.

PROJECT MANUAL REVISIONS

A1 SECTION 000110 - TABLE OF CONTENTS

A1.1 REPLACE existing Table of Contents with the attached revised Table of Contents dated October 25, 2016.

A2 SECTION 008100 – PREVAILING WAGE DETERMINATION

A2.1 DELETE previously issued Federal Wage Determination document "General Decision Number MO160046 08/19/2016 MO46", and REPLACE with "General Decision Number MO160046 09/30/2106 MO46."

A3 SECTION 012200 – UNIT PRICES

A3.1 DELETE Paragraphs 3.1 P, 3.1 Q, 3.1 R and 3.1 S.

A4 SECTION 033000 – CAST-IN-PLACE CONCRETE

A4.1 INSERT Clause 1.4 B.1.a as follows: a. Batch delivery tickets shall indicate batch weights as well as amount of available water to add on each delivery ticket.

A4.2 DELETE Paragraph 2.5 G and associated subparagraph

A4.3 DELETE Paragraph 2.8 A and INSERT the following:

A. Granular Drainage Fill (033000.A15): Provide 2 inches of limestone fines and 4 inches of clean crushed stone or crushed or uncrushed gravel conforming to ASTM C 33, Size 57. Total thickness of 6 inches.

A4.4 Subparagraph 2.14 D.1; CHANGE to read: Use waterproofing (capillary break) admixture in concrete mixtures for all slabs on grade.

A4.5 Subparagraph 2.15 C.2; DELETE: 0.42 and INSERT: 0.45.

A4.6 DELETE Paragraph 2.15 E and associated subparagraphs, and INSERT the following:

E. Concrete Toppings: Normal-weight concrete.
1. Minimum Compressive Strength: 5000 psi at 28 days.
2. Minimum Cementitious Materials Content: 520 lb/cu. yd.
3. Slump Limit: 4 inches, plus or minus 1 inch.
4. Air Content: Do not allow air content of trowel-finished toppings to exceed 3 percent.

A4.7 Subparagraph 2.17 A.2; in the first line after the word "jobsite", INSERT: or batch plant as recommended by admixture manufacturer,.

A4.8 Subparagraph 2.17 A.2; in the last sentence, DELETE: and elevated slabs.

A4.9 Subparagraph 2.17 B.4; in the last sentence, DELETE: and elevated slabs.

A5 SECTION 061600 – SHEATHING

A5.1 Paragraph 2.5 A; DELETE: Grade A-B, and INSERT: Grade A-C…

A6 SECTION 064200 – WOOD PANELING

A6.1 DELETE Subparagraph 1.6 A.1. Note that AWI Certification is not required.

A7 SECTION 072419 – EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

A7.1 INSERT new Section 072419 "Exterior Insulation and Finish System (EIFS)" dated October 25, 2016, attached.

A8 SECTION 074113 – STANDING-SEAM METAL ROOF PANELS

A8.1 INSERT Subparagraph 1.1 B.3 as follows: 3. Section 061600 "Sheathing" for roof sheathing.

A8.2 INSERT Subparagraph 1.1 B.4 as follows: 4. Section 072100 "Thermal Insulation" for roof insulation.

A8.3 Paragraph 2.2 B; DELETE: snapping panels together, and INSERT: mechanically seaming panels together.

A8.4 Subparagraph 2.2 B.1; DELETE: Curved, and INSERT: Double-Lock.

A8.5 Clause 2.2 B.2.a; DELETE: 0.031 inch, and INSERT: 0.028 inch (24 gauge).

A8.6 Subparagraph 2.2 B.6; DELETE: Curved and INSERT: Double-Lock.

A8.7 Subparagraph 3.4 E.3; DELETE: Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant., and INSERT: Seamed Joint: Double-crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof panel, and factory-applied sealant are completely engaged.

A9 SECTION 075213 – MODIFIED BITUMINOUS ROOFING

A9.1 Paragraph 2.3 A; DELETE: and light weight insulated concrete…

A9.2 ADD new Paragraph 2.3 Q as follows: Q. Asphalt: Asphalt shall meet requirements of ASTM D 312, Type IV.

A9.3 ADD new Paragraph 3.3 I as follows: I. Install vented base sheet at locations where concrete deck occurs in accordance with membrane manufacturer's written instructions.

A9.4 ADD new Subclause 3.4 A.1.a 2) as follows: 2) Set second layer of insulation in full mop of Type IV asphalt or low-rise foam adhesive as recommended by membrane manufacturer to meet performance requirements specified and offset joints 12 inches each way from first insulation layer.

A9.5 ADD new Subparagraph 3.4 A.5 as follows: 5. Over Concrete Decking**:** Install insulation in 2 layers, excluding tapered insulation and coverboard. Set first layer of insulation in full mop of Type IV asphalt as recommended by membrane manufacturer. Run long joints of insulation in continuous straight line, perpendicular to roof slope with ends joints staggered at least 12" between rows. Adhere first layer of insulation over entire area of roofing to meet FM for Windstorm Resistance Classification specified and per applicable requirements of FM Loss Prevention Data Sheet 1-28. Set second layer of insulation in full mop of Type IV asphalt as recommended by membrane manufacturer and offset joints 12" each way from first insulation layer.

A10 SECTION 075423 – THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

A10.1 Paragraph 2.1 A; INSERT Clause "e" as follows: e. Mule-Hide Products Co., Inc.

A10.2 Paragraph 2.3 A; DELETE: fabric-backed…

A10.3 Subparagraph 2.3 A.1; INSERT Clause "e" as follows: e. Mule-Hide Products Co., Inc.

A10.4 Paragraph 2.6 D; INSERT Subparagraph 3 as follows:

3. High Density Polyisocyanurate Coverboard: Provide one of the following:
   a. Carlisle SynTec; SecurShield HD Plus, ½ inch thickness.
   b. GAF; EnergyGuard HD Plus, ½ inch thickness.
   c. Johns Manville (JM); Invinsa, ¼ inch thickness.
   d. Stevens: Comparable product.
   e. Mule-Hide Products Co., Inc.; Comparable product.

A11 SECTION 084113 – ALUMINUM ENTRANCES AND STOREFRONTS

A11.1 DELETE Paragraphs 1.4 A and 1.4 C.

A11.2 DELETE Article 1.7 in its entirety.

A11.3 CHANGE Subclause 3.5 B.1.a 1) to read: For punched openings, test 25 percent of installation, in each type of exterior finish substrate.

A11.4 CHANGE Subclause 3.5 B.1.a 2) to read: For storefront and clerestories; test each installation.

A12 SECTION 084413 – GLAZED ALUMINUM CURTAIN WALLS

A12.1 DELETE Article 1.9 in its entirety.

A12.2 Subparagraph 2.3 A.5; CHANGE frames depth to: 7-1/4 to 7-1/2 inches.

A12.3 Clause 3.5 C.1.a; CHANGE to read: Perform test at each area of curtain wall.

A13 SECTION 087100 - DOOR HARDWARE

A13.1 REPLACE existing Section 087100 – "Door Hardware" with the attached revised Section 087100 – "Door Hardware", dated October 25, 2016.

A14 SECTION 092900 – GYPSUM BOARD

A14.1 DELETE Clause 1.1 A.1.c.

A14.2 DELETE Paragraph 2.3 D and associated subparagraphs and clauses.

A14.3 DELETE Subparagraph 3.3 A.3.

A15 SECTION 313200 – SUBSOIL STABILIZATION

A15.1 INSERT new Section 313200 "Subsoil Stabilization" dated October 25, 2016, attached.

C1 REFER TO CIVIL ADDENDUM NO. 2 ATTACHED

M1 REFER TO ATTACHED MEP ADDENDUM NO 2

DRAWINGS REVISIONS

A16 SHEET G001 – GENERAL PROJECT INFORMATION

A16.1 REPLACE previously issued Sheet GOO1, with attached sheet G001 dated 10.25.2016. (Added a general note).

A17 SHEET G101 – OVERALL CODE FLOOR PLANS

A17.1 REPLACE previously issued Sheet G101, with attached sheet G101 dated 10.25.2016. (Added a general note and flag pole base).

A18 SHEET A101A – FLOOR PLAN – AREA A

A18.1 REPLACE previously issued Sheet A101A, with attached sheet A101A dated 10.25.2016. (Clarify clear story window locations and types and ADD elevation tags E7/E10/A101A to room A107 SLP Center).

A19 SHEET A101B – FLOOR PLAN – AREA B

A19.1 REPLACE previously issued Sheet A101B in Addendum 1, with attached sheet A101B dated 10.25.2016. (Clarify clear story window locations and types).

A20 SHEET A101C – FLOOR PLAN – AREA C

A20.1 REPLACE previously issued Sheet A101C in Addendum 1, with attached sheet A101C dated 10.25.2016. (Clarify clear story window locations and types).).

A21 SHEET A121C REFLECTED CEILING PLAN – AREA C

A21.1 REMOVE (3) PS1s to match enlarged plan on L7/A434.

A21.2 C101 Multi-Purpose – ADD 'P9' tag to gyp soffits

A22 SHEET A141 – OVERALL ROOF PLAN

A22.1 REPLACE previously issued Sheet A141in Addendum 1, with attached sheet A141 dated 10.15.2016. (Clarify walkway pads location and quantity).

A23 SHEET A201 – EXTERIOR OVERALL BUILDING ELEVATIONS

A23.1 REPLACE previously issued Sheet A201 in Addendum 1, with attached sheet A201 dated 10.25.2016. (Clarify EIFS system notes and custom aluminum sheet signage).

A24 SHEET A202 – ENLARGED EXTERIOR BUILDING ELEVATIONS

A24.1 REPLACE previously issued Sheet A202in Addendum 1, with attached sheet A202 dated 10.25.2016. (Clarify EIFS system notes and custom aluminum sheet signage).).

A25 SHEET A203 – ENLARGED EXTERIOR BUILDING ELEVATIONS

A25.1 REPLACE previously issued Sheet A203 in Addendum 1, with attached sheet A203 dated 10.25.2016. (Clarify EIFS system notes and custom aluminum sheet signage).).

A26 SHEET A361 – WALL SECTIONS

A26.1 REPLACE previously issued Sheet A361 in Addendum 1, with attached sheet A361 dated 10.25.2016. (Clarify details L1, K6, A6).

A27 SHEET A362 – WALL SECTIONS

A27.1 REPLACE previously issued Sheet A362in Addendum 1, with attached sheet A362 dated 10.25.2016. (Clarify details L5,L9, L13, A5, and A13).

A28 SHEET A363 – WALL SECTIONS

A28.1 REPLACE previously issued Sheet A363in Addendum 1, with attached sheet A363 dated 10.25.2016. (Clarify detail P13).

A29 SHEET A364 – EXTERIOR DETAILS

A29.1 REPLACE previously issued Sheet A364 in Addendum 1, with attached sheet A364 dated 10.25.2016. (Add details N6, A11, E15. Clarify Detail E11).

A30 SHEET A501 – DOOR SCHEDULE

A30.1 REPLACE previously issued Sheet A501, with attached sheet A501 dated 10.25.2016. (Clarify door schedule).

A31 SHEET A504 – FRAME ELEVATIONS

A31.1 REPLACE previously issued Sheet A504 ALUMIINUM FRAME TYPES, with attached sheet A504 FRAME TYPES dated 10.25.2016. (Clarify frame type dimensions, referencing details, and tags).

A32 SHEET A601C FINISH FLOOR PLAN – AREA C

A32.1 REPLACE previously issued Sheet A601C, with attached sheet A601C dated 10.25.2016. (ADD dimensions and callout for solid surface countertop and ADD callout for tile 'T3' behind water fountains on the east wall).

A33 SHEET A621 INTERIOR ELEVATIONS

A33.1 REPLACE previously issued Sheet A621, with attached sheet A621 dated 10.25.2016. (Sheet Note: Hollow Metal Frame Paint Colors: REPLACE note 6 with paint color Marine Blue #88GG 32/346 and note 7 with paint color Indian Bead #70BG 31/332 and Elevation A1: Replace keynote 12 32 00.A01 for keynote 12 32 00.A20 Pre-Manufactured Casework).

A34 SHEET A622 INTERIOR ELEVATIONS

A34.1 REPLACE previously issued Sheet A622, with attached sheet A622 dated 10.25.2016. (Elevation A4 – REMOVE Hollow Metal Frame Paint color tags for exterior windows, Sheet Note: Hollow Metal Frame Paint Colors: REPLACE note 6 with paint color Marine Blue #88GG 32/346 and note 7 with paint color Indian Bead #70BG 31/332 and Elevation E4 – ADD text "PAINTED WOOD FRAMES – PROFILES AND SIZES TBD. ATTACHED CABLES & HOOKS" under keynote 06 40 23.A02).

A35 SHEET A623 INTERIOR ELEVATIONS

REPLACE previously issued Sheet A623, with attached sheet A623 dated 10.25.2016. (Sheet Note: Hollow Metal Frame Paint Colors: REPLACE note 6 with paint color Marine Blue #88GG 32/346 and note 7 with paint color Indian Bead #70BG 31/332. Elevation J1 – ADD Hollow Metal Frame Paint Color tags to (3) windows: ADD text "PAINTED WOOD FRAMES – PROFILES AND SIZES TBD. ATTACHED CABLES & HOOKS" under keynote 06 40 23.A02 and Elevation N10 – ADD plastic laminate designations under associated keynotes).

A36 SHEET A624 INTERIOR ELEVATIONS

REPLACE previously issued Sheet A624, with attached sheet A624 dated 10.25.2016. (Sheet Note: Hollow Metal Frame Paint Colors: REPLACE note 6 with paint color Marine Blue #88GG 32/346 and note 7 with paint color Indian Bead #70BG 31/332, Elevation A9: ADD Hollow Metal Frame Paint color tags to (2) windows, Elevation A9: ADD door tags: ADD text "PAINTED WOOD FRAMES – PROFILE AND SIZES TBD. ATTACHED CABLES & HOOKS" under keynote 06 40 23.A02, Elevation A1: ADD Hollow Metal Frame Paint Color tags to (2) windows, ADD door tags to (2) doors, Add dimensions to WP3 panels and ADD text "PAINTED WOOD FRAMES – PROFILE AND SIZES TBD. ATTACHED CABLES & HOOKS" under keynote 06 40 23.A02)

A37 SHEET A625 INTERIOR ELEVATIONS

A37.1 REPLACE previously issued Sheet A625, with attached sheet A625 dated 10.25.2016. (Sheet Note: Hollow Metal Frame Paint Colors: REPLACE note 6 with paint color Marine Blue #88GG 32/346 and note 7 with paint color Indian Bead #70BG 31/332, Elevation A10: ADD text "PAINTED WOOD FRAMES – PROFILE AND SIZES TBD. ATTACHED CABLES & HOOKS" under keynote 06 40 23.A02, ADD elevations E7 and E10, Elevation A1 - ADD plastic laminate designation under associated keynotes, Elevation A6 – ADD plastic laminate designation under associated keynotes. CHANGE casework dimensions and Elevation E13 – ADD plastic laminate designation under associated keynote).

A38 SHEET A661 INTERIOR DETAILS

A38.1 REPLACE previously issued Sheet A661, with attached sheet A661 dated 10.25.2016. (Detail A11 – ADD 06 40 23.A22 Grommets, 06 40 23.A19 and 06 40 23.A18 and REPLACE Details: A1, A6, F10, F13)

A39 SHEET A681 MATERIAL FINISH LEGEND

A39.1 REPLACE previously issued Sheet A681, with attached sheet A681 dated 10.25.2016. (General Finish Notes: ADD note "13. SOLID SURFACE WINDOW SILLS TO BE SS1.")

A40 SHEET A682 ROOM FINISH SCHEDULE

A40.1 REPLACE previously issued Sheet A682, with attached sheet A682 dated 10.25.2016. (Room A104 Director's Office – CHANGE floor finish to C9, CHANGE south wall finish to P10 and Room C101 Multi-Purpose – ADD finishes to floor, base, walls, ceiling).

A41 SHEET A811 – SIGNAGE TYPES

A41.1 REPLACE previously issued Sheet A811, with attached sheet A811 dated 10.25.2016.

S1 ISSUED STRUCTURAL SHEETS

S1.1 Issued structural sheets that show the modifications made to the sheets where only verbiage was issued in Addendum No. 1: S000, S002, S100, S101, S102, S200, S201, S202 and S300

C1 REFER TO CIVIL ADDENDUM NO. 2 ATTACHED

L1 REFER TO LANDSCAPE ADDENDUM NO. 2 ATTACHED

M2 REFER TO MEP ADDENDUM NO. 2 ATTACHED

SUBSTITUTION REQUEST APPROVALS

This portion of the addendum designates those materials, products and equipment approved prior to submission of bids, as set forth in the contract documents. Items added to the proposed contract documents by this addendum are the only proposed substitutions received and approved by the architect in accordance with those provisions. No other items shall be substituted or bid as "equals".

It is understood that all items allowed by this addendum are subject to the full provisions of the original proposed contract documents and all modifications thereto and, as such, shall match standards of the original specified items with respect to materials, workmanship, design, size, capacity, type, function, finish, performance, quality, warranty, etc. Nothing in this addendum shall be construed as altering those original standards or modifications thereto.

Approvals are based upon the opinion, knowledge, information and belief of the architect at time of issuance of this addendum and reliance upon data submitted. Approvals are therefore interim in nature and subject to reconsideration as additional data, materials, workmanship and coordination with other work are observed and reviewed. In proposing items allowed by this addendum, bidder assumes all risk, costs and responsibility for item's final acceptance, integration into the work and performance.

SECTION 033000

SPEC HARD BY SPEC CHEM Is acceptable.

SECTION 072100

PROSEAL BY ICYNENE Is acceptable.

SECTION 072729

AIR-SHIELD BY W.R. MEADOWS INC.Is acceptable

SECTION 072729

RGUARD VAPOR BARRIER BY PROSOCO Is acceptable.

SECTION 075423

MULE-HIDE PROUCTS are acceptable. Note the basis of design has been clarified in Addendum 2.

SECTION 123200

FADCO SUPPLIERS Is acceptable

SECTION 283111

SIEMENS CERBERUS PRO Is acceptable

SECTION 321313

PAVE CURE REZ WHITE BY SPEC CHEM Is acceptable.

SPEC FILM RTU BY SPEC CHEM Is acceptable.

CURE & SEAL WB BY SPEC CHEM Is acceptable.

SECTION 321820

NO FAULT SAFETY SURFACE Is acceptable provided the stone base and geotextile fabric as specified in 321820 is acceptable base and will not require increase in cost due to differing stone gradation.

RETAINING WALL

BIG BLOCK Is acceptable.

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END OF ADDENDUM NO. 2

DOCUMENT 000110 - TABLE OF CONTENTS

Joplin Early Childhood Center
Site Legal Description:
JOP MISC BEG 1360.93' S & 50' E NW COR SE E 456.91' N 318.78' W 456.91' S 318.78' TO POB

Project No. 16054

General Decision Number: MO160046 09/30/2016 MO46

Superseded General Decision Number: MO20150046

State: Missouri

Construction Type: Building

County: Jasper County in Missouri.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/08/2016
1	03/04/2016
2	05/20/2016
3	06/10/2016
4	08/19/2016
5	09/30/2016

ASBE0063-002 11/01/2015

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR	$ 25.47	11.25

BOIL0083-005 01/01/2015

	Rates	Fringes
BOILERMAKER	$ 34.76	27.06

BRMO0015-014 04/01/2016

	Rates	Fringes
BRICKLAYER	$ 27.73	15.86

BRMO0015-017 06/01/2016

	Rates	Fringes

TILE SETTER	$ 22.08	12.86

CARP0311-006 05/01/2015

	Rates	Fringes
CARPENTER (Including Acoustical Ceiling Installation, Drywall Hanging & Metal Stud Installation)	$ 22.95	15.10

ELEC0095-004 06/01/2015

	Rates	Fringes
ELECTRICIAN (Including Low Voltage Wiring for Alarms & Phones)	$ 26.46	14.12

ENGI0101-024 04/01/2016

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
Bobcat/Skid Loader	$ 23.89	12.64
Crane	$ 26.34	12.64
Forklift	$ 24.60	12.64
Grader/Blade	$ 26.34	12.64
Loader	$ 24.60	12.64
Paver	$ 26.34	12.64
Roller	$ 23.89	12.64

IRON0584-001 06/01/2015

BARRY COUNTY

	Rates	Fringes
IRONWORKER (REINFORCING AND STRUCTURAL)	$ 24.00	13.53

LABO0319-001 05/01/2016

	Rates	Fringes
LABORER		
Brick & Cement/Concrete Mason Tender	$ 20.98	11.53
Common or General; Asphalt Shoveler; Pipelayer	$ 20.98	11.53

PLAS0518-022 03/01/2016

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 23.54	10.30

PLUM0178-001 11/01/2015

	Rates	Fringes
PIPEFITTER, Includes HVAC Pipe Installation		
Projects $750,000 & under	$ 25.98	14.77
Projects over $750,000	$ 28.95	14.77
PLUMBER, Excludes HVAC Pipe Installation		
Projects $750,000 & under	$ 25.98	14.77
Projects over $750,000	$ 28.95	14.77

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* ROOF0020-003 04/01/2016

	Rates	Fringes
ROOFER	$ 22.75	10.88

SHEE0036-003 07/01/2011

	Rates	Fringes
SHEET METAL WORKER, Includes HVAC Duct and Unit Installation	$ 25.91	12.73

SUMO2010-045 06/14/2010

	Rates	Fringes
GLAZIER	$ 20.23	0.42
INSTALLER - OVERHEAD DOOR	$ 26.07	4.62
OPERATOR: Backhoe/Excavator	$ 20.16	11.36
OPERATOR: Hoist	$ 26.02	13.01
PAINTER: Brush and Roller	$ 15.34	0.00
PAINTER: Spray	$ 17.78	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the

classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

SECTION 072419 - EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:
   1. Drainage-type exterior insulation and finish system (EIFS) (072419.A01).

B. Related Sections:
   1. Section 061600 "Sheathing" for sheathing.

1.2 DEFINITIONS

A. Definitions in ASTM E 2110 apply to Work of this Section.

B. EIFS: Exterior insulation and finish system(s).

C. IBC: International Building Code.

D. Polymer-Based Exterior Insulation and Finish System: Class PB EIFS, as defined in ASTM E 2568.

1.3 SYSTEM DESCRIPTION

A. Class PB EIFS: A non-load-bearing, exterior wall cladding system that consists of an insulation board attached adhesively, mechanically, or both to the substrate; an integrally reinforced base coat; and a textured protective finish coat.

1.4 PERFORMANCE REQUIREMENTS

A. EIFS Performance: Comply with the following:
   1. Bond Integrity: Free from bond failure within EIFS components or between system and supporting wall construction, resulting from exposure to fire, wind loads, weather, or other in-service conditions.
   2. Weather Tightness: Resistant to water penetration from exterior into water-drainage EIFS and assemblies behind it or through them into interior of building that results in deterioration of thermal-insulating effectiveness or other degradation of EIFS and assemblies behind it, including substrates, supporting wall construction, and interior finish, and including a means that allows water entering into an EIFS assembly to drain to the exterior.

B. Class PB EIFS: Provide EIFS having physical properties and structural performance that comply with the following:
   1. Abrasion Resistance: Sample consisting of 1-inch- thick EIFS mounted on 1/2-inch- thick gypsum board; cured for a minimum of 28 days; and showing no cracking, checking, or loss of film integrity after exposure to 528 quarts of sand when tested per ASTM D 968, Method A.
   2. Absorption-Freeze Resistance: No visible deleterious effects and negligible weight loss after 60 cycles per EIMA 101.01.
   3. Accelerated Weathering: Five samples per ICC-ES AC235 showing no cracking, checking, crazing, erosion, rusting, blistering, peeling, delamination, or other characteristics that might affect performance as a wall cladding after testing for 2000 hours when viewed under 5 times magnification per ASTM G 153 or ASTM G 155.
   4. Freeze-Thaw: No surface changes, cracking, checking, crazing, erosion, rusting, blistering, peeling, or delamination, or indications of delamination between components when viewed under 5 times magnification after 10 cycles per ICC-ES AC235.
   5. Mildew Resistance of Finish Coat: Sample applied to 2-by-2-inch clean glass substrate, cured for 28 days, and showing no growth when tested per ASTM D 3273 and evaluated according to ASTM D 3274.
   6. Salt-Spray Resistance: No deleterious affects when tested according to ICC-ES AC235.
   7. Tensile Adhesion: No failure in the EIFS, adhesive, base coat, or finish coat when tested per ICC-ES AC235.
   8. Water Penetration: Sample consisting of 1-inch- thick EIFS mounted on 1/2-inch- thick gypsum board, cured for 28 days, and showing no water penetration into the plane of the base coat to expanded polystyrene board interface of the test specimen after 15 minutes at 6.24 lbf/sq. ft. of air pressure difference or 20 percent of positive design wind pressure, whichever is greater, across the specimen during a test period when tested per EIMA 101.02.

9. Water Resistance: Three samples, each consisting of 1-inch- thick EIFS mounted on 1/2-inch- thick gypsum board; cured for 28 days; and showing no cracking, checking, crazing, erosion, rusting, blistering, peeling, or delamination after testing for 14 days per ASTM D 2247.
10. Impact Resistance: Sample consisting of 1-inch- thick EIFS when constructed, conditioned, and tested per EIMA 101.86; and meeting or exceeding the following:
    a. Standard Impact Resistance: 25 to 49 inch-lb, where system is 8 feet above adjacent finished grade.
    b. Medium Impact Resistance: 50 to 89 inch-lb, where system is 8 feet or less above adjacent finished grade.
11. Structural Performance Testing: EIFS assembly and components shall comply with ICC-ES AC235 when tested per ASTM E 330.

1.5 ACTION SUBMITTALS

A. Product Data: For each type and component of EIFS indicated.

B. Shop Drawings: Include plans, elevations, sections, details of components, details of penetration and termination, flashing details, joint locations and configurations, fastening and anchorage details including mechanical fasteners, and connections and attachments to other work.

C. Samples for Initial Selection: For each type of finish-coat color and texture indicated.

D. Samples for Verification: 12-inch- square panels for each type of finish-coat color and texture indicated, prepared using same tools and techniques intended for actual work including an aesthetic reveal and a typical control joint filled with sealant of color selected.
1. Include sealants Samples to verify color selected.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing agency.

B. Manufacturer Certificates: Signed by manufacturers certifying that EIFS comply with requirements.
1. Accessory products installed with EIFS, including joint sealants, flashing, water-resistive coatings, and trim, whether or not furnished by EIFS manufacturer and whether or not specified in this Section, are acceptable to EIFS manufacturer.

C. Field quality-control reports and special inspection reports.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For EIFS to include in maintenance manuals.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An installer who is certified in writing by EIFS manufacturer as qualified to install manufacturer's system using trained workers.

B. Source Limitations: Obtain EIFS from single source from single EIFS manufacturer and from sources approved by EIFS manufacturer as compatible with system components.

C. Mockups/Field Sample: Build mockup/field sample to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution and set quality standards for fabrication and installation.
1. Approved mockups/field samples may become part of the completed Work if undisturbed at time of Substantial Completion.

D. Preinstallation Conference: Conduct conference at Project site.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original, unopened packages with manufacturers' labels intact and clearly identifying products.

B. Store materials inside and under cover; keep them dry and protected from weather, direct sunlight, surface contamination, aging, corrosion, damaging temperatures, construction traffic, and other causes.
   1. Stack insulation board flat and off the ground.
   2. Protect plastic insulation against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.
   3. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

1.10 PROJECT CONDITIONS

A. Weather Limitations: Maintain ambient temperatures above 40 deg F for a minimum of 24 hours before, during, and after adhesives or coatings are applied. Do not apply EIFS adhesives or coatings during rainfall. Proceed with installation only when existing and forecasted weather conditions and ambient outdoor air, humidity, and substrate temperatures permit EIFS to be applied, dried, and cured according to manufacturers' written instructions and warranty requirements.

1.11 COORDINATION

A. Coordinate installation of EIFS with related Work specified in other Sections to ensure that wall assemblies, including sheathing, weather-resistant sheathing paper, flashing, trim, joint sealants, windows, and doors, are protected against damage from the effects of weather, age, corrosion, moisture, and other causes. Do not allow water to penetrate behind flashing that is behind water-drainage EIFS.

1.12 WARRANTY

A. Manufacturer's Special Warranty for EIFS: Manufacturer agrees to repair or replace components of EIFS-clad wall and soffit assemblies that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Bond integrity and weather tightness.
      b. Deterioration of EIFS finishes and other EIFS materials beyond normal weathering.
   2. Warranty coverage includes the following components of EIFS-clad drainage-wall assemblies:
      a. EIFS finish, including base coats, finish coats, and reinforcing mesh.
      b. Insulation installed as part of EIFS including foam build-outs.
      c. Insulation adhesive.
      d. EIFS accessories, including trim components and flashing.
   3. Warranty Period: Ten (10) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide EIFS systems by one of the following:
   1. Dryvit Systems, Inc.
   2. Parex, Inc.; a brand of ParexLahabra, Inc.
   3. Senergy; Degussa Wall Systems, Inc.
   4. Sto Corp.

2.2 MATERIALS

A. Compatibility: Provide water-resistive coating, adhesive, fasteners, board insulation, reinforcing meshes, base- and finish-coat systems, sealants, and accessories that are compatible with one another and with substrates and approved for use by EIFS manufacturer for Project.

B. Water-Resistive Coatings: EIFS manufacturer's standard formulation and accessories for use as water-resistive barriers; compatible with substrate and complying with physical and performance criteria of ASTM E 2570.
   1. Water-resistive coatings shall be compatible with air barrier coating system specified in Section 072729.

C. Flexible-Membrane Flashing: Cold-applied, self-adhering, self-healing, rubberized-asphalt and polyethylene-film composite sheet or tape and primer; EIFS manufacturer's standard or product recommended in writing by EIFS manufacturer.

D. Liquid Flashing: Manufacturer's standard.

E. Primer/Sealer: EIFS manufacturer's standard substrate conditioner designed to seal substrates from moisture penetration and to improve the bond between substrate of type indicated and adhesive used for application of insulation.

F. Insulation Adhesive: EIFS manufacturer's standard formulation designed for indicated use; compatible with substrate; and complying with one of the following:
   1. Job-mixed formulation of portland cement complying with ASTM C 150, Type I, and polymer-based adhesive specified for base coat.
   2. Factory-mixed non-cementitious formulation designed for adhesive attachment of insulation to substrates of type indicated, as recommended by EIFS manufacturer.

G. Molded, Rigid Cellular Polystyrene Board Insulation: Comply with ASTM C 578, Type I; EIFS manufacturer's requirements; and EIMA's "EIMA Guideline Specification for Expanded Polystyrene (EPS) Insulation Board" for most stringent requirements for material performance and qualities of insulation, including dimensions and permissible variations, and the following:
   1. Aging: Before cutting and shipping, age insulation in block form by air drying for not less than six weeks or by another method approved by EIMA that produces equivalent results.
   2. Flame-Spread and Smoke-Developed Indexes: 25 and 450 or less, respectively, per ASTM E 84.
   3. Dimensions: Provide insulation boards not more than 24 by 48 inches and in thickness indicated but not more than 4 inches thick or less than thickness allowed by ASTM C 1397.
   4. Foam Shapes: Provide with profiles and dimensions indicated on Drawings.
   5. At Contractor's option, pre-manufactured insulation starter strips may be used. Starter strips shall have 3 to 4 inch high pre-wrapped and reinforced edges. Starter strips shall not be less than 8 inches tall. Provide in manufacturer's standard lengths.

H. Reinforcing Mesh: Balanced, alkali-resistant, open-weave, glass-fiber mesh treated for compatibility with other EIFS materials, made from continuous multi-end strands with retained mesh tensile strength of not less than 120 lbf/in. per EIMA 105.01; complying with ASTM D 578 and the following:
   1. Standard-Impact Reinforcing Mesh: Not less than 4.0 oz./sq. yd.
   2. Intermediate-Impact Reinforcing Mesh: Not less than 12.0 oz./sq. yd.
   3. Strip Reinforcing Mesh: Not less than 3.75 oz./sq. yd.
   4. Detail Reinforcing Mesh: Not less than 4.0 oz./sq. yd.
   5. Corner Reinforcing Mesh: Not less than 7.2 oz./sq. yd.

I. Base-Coat Materials: EIFS manufacturer's standard mixture complying with one of the following requirements:
   1. Factory-blended dry formulation of portland cement, dry polymer admixture, and inert fillers to which only water is added at Project site.
   2. Factory-mixed non-cementitious formulation of polymer-emulsion adhesive and inert fillers that is ready to use without adding other materials.

J. Primer: EIFS manufacturer's standard factory-mixed, elastomeric-polymer primer for preparing base-coat surface for application of finish coat.

K. Finish-Coat Materials: EIFS manufacturer's standard acrylic-based coating with enhanced mildew resistance complying with the following:
   1. Factory-mixed formulation of polymer-emulsion binder, colorfast mineral pigments, sound stone particles, and fillers.
   2. Textures: As selected by Architect from manufacturer's full range.
   3. Colors: As selected by Architect from manufacturer's full range.

L. Water: Potable.

M. Mechanical Fasteners: When recommended by manufacturer to supplement adhesive, provide EIFS manufacturer's standard corrosion-resistant fasteners consisting of thermal cap, standard washer and shaft attachments, and fastener indicated below; selected for properties of pullout, tensile, and shear strength required to resist design loads of application indicated; capable of pulling fastener head below surface of insulation board; and of the following description:
   1. For attachment to masonry and concrete substrates, provide sheathing dowel in form of a plastic wing-tipped fastener with thermal cap, sized to fit insulation thickness indicated and to penetrate substrate to depth required to secure anchorage.
   2. For attachment, provide manufacturer's standard fasteners suitable for substrate.

N. Trim Accessories: Type as designated or required to suit conditions indicated and to comply with EIFS manufacturer's written instructions; manufactured from UV-stabilized PVC; and complying with ASTM D 1784, manufacturer's standard Cell Class for use intended, and ASTM C 1063.
   1. Casing Bead: Prefabricated, one-piece type for attachment behind insulation, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg.
   2. Weep Screed/Track: Prefabricated, one-piece type for attachment behind insulation with perforated face leg extended to form a drip and weep holes in track bottom, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg; designed to drain incidental moisture that gets into wall construction to the exterior at terminations of EIFS with drainage.
      a. Omit weep screed/starter track where pre-wrapped reinforced starter strips are used.
   3. Expansion Joint: Prefabricated, one-piece V profile; designed to relieve stress of movement.
   4. Window Sill Flashing: Prefabricated type for both flashing and sloping sill over framing beneath windows; with end and back dams; designed to direct water to exterior.

2.3 MIXING

A. General: Comply with EIFS manufacturer's requirements for combining and mixing materials. Do not introduce admixtures, water, or other materials except as recommended by EIFS manufacturer. Mix materials in clean containers. Use materials within time period specified by EIFS manufacturer or discard.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of EIFS.

B. Examine roof edges, wall framing, flashings, openings, substrates, and junctures at other construction for suitable conditions where EIFS will be installed.

C. Proceed with installation only after unsatisfactory conditions have been corrected.
   1. Begin coating application only after surfaces are dry.
   2. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Protect contiguous work from moisture deterioration and soiling caused by application of EIFS. Provide temporary covering and other protection needed to prevent spattering of exterior finish coats on other work.

B. Protect EIFS, substrates, and wall construction behind them from inclement weather during installation. Prevent penetration of moisture behind drainage plane of EIFS and deterioration of substrates.

C. Prepare and clean substrates to comply with EIFS manufacturer's written instructions to obtain optimum bond between substrate and adhesive for insulation.

3.3 EIFS INSTALLATION, GENERAL

A. Comply with EIFS manufacturer's written instructions for installation of EIFS as applicable to each type of substrate indicated.

3.4 SUBSTRATE PROTECTION APPLICATION

A. Primer/Sealer: Apply over each type of substrate encountered and where required by EIFS manufacturer for improving adhesion of insulation to substrate.

B. Water-Resistive Coating: Apply over sheathing to provide a water-resistive barrier.
   1. Tape and seal joints, exposed edges, terminations, and inside and outside corners of sheathing unless otherwise indicated by EIFS manufacturer's written instructions.

C. Flexible-Membrane Flashing: Install over weather-resistive barrier, applied and lapped to shed water; seal at openings, penetrations, terminations, and where required by EIFS manufacturer. Prime substrates if required and install flashing to comply with EIFS manufacturer's written instructions and details.

D. Liquid Flashing: Install over weather-resistive barrier, applied and lapped to shed water; seal at openings, penetrations, terminations, and where required by EIFS manufacturer. Prime substrates if required and install flashing to comply with EIFS manufacturer's written instructions and details.

3.5 TRIM INSTALLATION

A. Trim: Apply trim accessories at perimeter of EIFS, at expansion joints, at window sills**,** and elsewhere as indicated, according to EIFS manufacturer's written instructions. Coordinate with installation of insulation.
1. Weep Screed/Track: Use at bottom termination edges, at window and door heads of water-drainage EIFS unless otherwise indicated.
   a. Omit weep screed when pre-manufactured starter strips are used.
2. Window Sill Flashing: Use at windows unless otherwise indicated.
3. Expansion Joint: Use where indicated on Drawings.
4. Casing Bead: Use at other locations.

3.6 INSULATION INSTALLATION

A. Board Insulation: Adhesively attach insulation to substrate in compliance with ASTM C 1397, EIFS manufacturer's written instructions to accommodate water drainage installation, and the following:
1. Where vertical ribbons of adhesive are used, apply adhesive to insulation or to air barrier coating according to EIFS manufacturer's written instructions. Apply adhesive to a thickness recommended by EIFS manufacturer.
2. Press insulation into place. Apply pressure over the entire surface of insulation to accomplish uniform contact, high initial grab, and overall level surface.
3. Allow adhered insulation to remain undisturbed for period recommended by EIFS manufacturer, but not less than 24 hours, before beginning rasping and sanding insulation, or applying base coat and reinforcing mesh.
4. Apply insulation over air barrier coating and dry substrates in courses with long edges of boards oriented horizontally.
5. Begin first course of insulation from screed/track and work upward. Work from perimeter casing beads toward interior of panels if possible.
6. Stagger vertical joints of insulation boards in successive courses to produce running bond pattern. Locate joints so no piece of insulation is less than 12 inches wide or 6 inches high. Offset joints not less than 6 inches from corners of window and door openings and not less than 4 inches from aesthetic reveals.
   a. Adhesive Attachment: Offset joints of insulation not less than 6 inches from horizontal and 4 inches from vertical joints in sheathing.
7. Place insulation with adhesive strips and channels, slots, or waves aligned in the vertical position for drainage
8. Interlock ends at internal and external corners.
9. Abut insulation tightly at joints within and between each course to produce flush, continuously even surfaces without gaps or raised edges between boards. If gaps greater than 1/16 inch occur, fill with insulation cut to fit gaps exactly; insert insulation without using adhesive or other material.
10. Cut insulation to fit openings, corners, and projections precisely and to produce edges and shapes complying with details indicated.
11. Rasp or sand flush entire surface of insulation to remove irregularities projecting more than1/16 inch from surface of insulation and to remove yellowed areas due to sun exposure; do not create depressions deeper than 1/16 inch.
12. Cut aesthetic reveals in outside face of insulation with high-speed router and bit configured to produce grooves, rabbets, and other features that comply with profiles and locations indicated. Do not reduce insulation thickness at aesthetic reveals to less than 3/4 inch.
13. Interrupt insulation for expansion joints where indicated.
14. Form joints for sealant application by leaving gaps between adjoining insulation edges and between insulation edges and dissimilar adjoining surfaces. Make gaps wide enough to produce joint widths indicated after encapsulating joint substrates with base coat and reinforcing mesh.
15. After installing insulation and before applying field-applied reinforcing mesh, fully wrap board edges. Cover edges of board and extend encapsulating mesh not less than 2-1/2 inches over front and back face unless otherwise indicated on Drawings.

16. Treat exposed edges of insulation as follows:
    a. Except for edges forming substrates of sealant joints, encapsulate with base coat, reinforcing mesh, and finish coat.
    b. Encapsulate edges forming substrates of sealant joints within EIFS or between EIFS and other work with base coat and reinforcing mesh.
    c. At edges trimmed by accessories, extend base coat, reinforcing mesh, and finish coat over face leg of accessories.
17. Coordinate installation of flashing and insulation to produce wall assembly that does not allow water to penetrate behind flashing and water-/weather-resistive barrier.

B. Expansion Joints: Install at locations indicated, where required by EIFS manufacturer, and as follows:
1. At expansion joints in substrates behind EIFS.
2. Where EIFS adjoin dissimilar substrates, materials, and construction, including other EIFS.
3. Where wall height or building shape changes.
4. Where EIFS manufacturer requires joints in long continuous elevations.

3.7 BASE-COAT INSTALLATION

A. Base Coat: Apply to exposed surfaces of insulation in minimum thickness recommended in writing by EIFS manufacturer, but not less than 1/16-inch dry-coat thickness.

B. Reinforcing Mesh: Embed type indicated below in wet base coat to produce wrinkle-free installation with mesh continuous at corners and overlapped not less than 2-1/2 inches or otherwise treated at joints to comply with ASTM C 1397 and EIFS manufacturer's written instructions. Do not lap reinforcing mesh within 8 inches of corners. Completely embed mesh, applying additional base-coat material if necessary, so reinforcing-mesh color and pattern are not visible.
1. Standard-impact reinforcing mesh for installations 8 feet above adjacent finished grade.
2. Intermediate-impact reinforcing mesh for installations 8 feet or less above adjacent finished grade.

C. Double-Layer Reinforcing Mesh Application: Where indicated, apply second base coat and second layer of[standard or intermediate-impact reinforcing mesh, overlapped not less than 2-1/2 inches or otherwise treated at joints to comply with ASTM C 1397 and EIFS manufacturer's written instructions in same manner as first application. Do not apply until first base coat has cured.

D. Additional Reinforcing Mesh: Apply strip reinforcing mesh around openings extending 4 inches beyond perimeter. Apply additional 9-by-12-inch strip reinforcing mesh diagonally at corners of openings (re-entrant corners). Apply 8-inch- wide strip reinforcing mesh at both inside and outside corners unless base layer of mesh is lapped not less than 4 inches on each side of corners.
1. At aesthetic reveals, apply strip reinforcing mesh not less than 8 inches wide.
2. Embed strip reinforcing mesh in base coat before applying first layer of reinforcing mesh.

3.8 FINISH-COAT INSTALLATION

A. Primer: When recommended by EIFS manufacturer, apply over dry base coat according to EIFS manufacturer's written instructions.

B. Finish Coat: Apply over dry base coat, maintaining a wet edge at all times for uniform appearance, in thickness required by EIFS manufacturer to produce a uniform finish of color and texture matching approved sample and free of cold joints, shadow lines, and texture variations.
1. Textures: Match approved sample.
2. Colors: Match approved sample.

3.9 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:
1. According to ICC-ES AC24 or ICC-ES AC235 as applicable.

B. Testing Agency: Engage a qualified testing agency to perform tests and inspections other than “Special Inspections” when required by EIFS manufacturer and authority having jurisdiction.

C. EIFS Tests and Inspections: For the following:
   1. According to requirements of authority having jurisdiction and EIFS manufacturer.

D. Remove and replace EIFS where test results indicate that EIFS do not comply with specified requirements.

E. Prepare test and inspection reports.

3.10 CLEANING AND PROTECTION

A. Remove temporary covering and protection of other work. Promptly remove coating materials from window and door frames and other surfaces outside areas indicated to receive EIFS coatings.

END OF SECTION 072419

SECTION 087100 – DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Intent: The intent of this Section is to provide finish hardware for the proper operation and control of all wood, hollow metal and aluminum doors in the Project. Prior to bidding, notify the Architect of any doors that do not have hardware meeting this intention.

B. This Section includes items known commercially as finish or door hardware that are required for swinging doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed. This Section includes, but is not necessarily limited to furnishing and installing complete, the following:
   1. Finish hardware for proper operation and control of all wood, aluminum and hollow metal doors, including hinges, locks and latch sets, closers, panic devices, autoflushbolts, electric strikes, magnetic holders, removable mullions, cylinders, keys, miscellaneous stops, flat goods, weatherstripping and thresholds as required.
   2. Cylinder for access doors where specified.

C. Related work in other sections:
   1. Hollow metal doors, frames and silencers: Section 081113.
   2. Wood doors: Section 081416.
   3. Aluminum doors: Section 084113.

1.2 DEFINITIONS

A. "Finish Hardware" includes items known commercially as finish hardware which are required for swing, and folding doors, except special types of unique and non-matching hardware specified in the same section as the door and door frame.

1.3 ACTION SUBMITTALS

A. Product Data: Submit manufacturer's technical product data for each hardware item. Include information necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finishes.
   1. Manufacturer shall submit written certification confirming closers compliance with U.L. 10C.

B. Hardware Schedule: Submit a hardware schedule in a vertical format (horizontal format not acceptable), organized into sets, including the information below. Designations for door numbers and hardware sets in the schedule shall match those used in the Construction Documents for each opening.
   1. Hardware Schedule shall be coordinated with doors, frames, and related work to ensure proper size, thickness, hand function, and finish of door hardware.
   2. Catalog cuts of each type of exposed hardware unit, highlighted in color to indicate compliance with the Hardware Schedule.
   3. Type, style, function, size and finish of each hardware item.
   4. Name and manufacturer of each item.
   5. Fastenings and other pertinent information.
   6. Explanation of all abbreviations, symbols, codes, etc., contained in schedule.
   7. Mounting locations for hardware.
   8. Door and frame sizes and materials.
   9. Deviations from Specifications shall be noted in cover letter.

C. Submittal Sequence: Submit schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work (e.g., hollow metal frames) which is critical in the project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by finish hardware, and other information essential to the coordinated review of hardware schedule.

D. Keying Schedule: Submit separate detailed schedule, at the same time as the Hardware Schedule, indicating keying for all locks and how Owner's instructions, on keying of locks has been fulfilled. Keying schedule must be approved before ordering any locks.

E. Pinning Transcript: Submit detailed schedule indicating each lock cylinder and core.

F. Templates: Furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the installation of hardware. Upon request, check shop drawings of such other work, to confirm that adequate provisions are made for proper location and installation of hardware.

1.4 QUALITY ASSURANCE

A. Manufacturer: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

B. Product/Material Qualifications: Manufacturer's product numbers are indicated for convenience in identifying finish hardware items. Unless otherwise indicated, manufacturer's description for indicated product number constitutes minimum standards of quality, design, function and performance required for each item to be incorporated into the Project.
   1. It will be the responsibility of the Bidder to furnish with his Bid a list clarifying any deviations from these specifications written or implied, in order that a fair and proper evaluation be made. Those Bidders not submitting a list of deviations will be presumed to have Bid as specified.

C. Supplier Qualifications: A recognized Architectural Finish Hardware Supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of not less than 2 years. Supplier shall be or employ an experienced Architectural Hardware Consultant (AHC) who is certified by and member of the Door and Hardware Institute. The Architectural Hardware Consultant shall be available, at reasonable times during the course of the work, for consultation about project's hardware requirements, to Owner, Architect and Contractor.
   1. Supplier shall meet with the Owner to finalize keying requirements and obtain final instructions in writing.

D. Fire-Rated Openings: Provide hardware for fire-rated openings in compliance with NFPA Pamphlets No. 80, No. 101 and of authorities having jurisdiction requirements. Provide only hardware which has been tested and listed by UL, FM or Warnock Hersey for types and sizes of doors required and complies with requirements of door and door frame labels.
   1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL or FM labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL or FM label on exit devices indicating "Fire Exit Hardware".

E. Standards: Comply with the requirements of the latest edition of the following standards, unless indicated otherwise:
   1. American National Standards Institute (ANSI) Publications:
      a. A115 Series - Door and Frame Preparation.
      b. A156 Series - Hardware.
   2. Builders Hardware Manufacturers Association (BHMA) Publications:
      a. 1201 - Auxiliary Hardware.
      b. 1301 - Materials and Finishes.
   3. Door and Hardware Institute (DHI) Publications:

a. Keying - Procedures, Systems, and Nomenclature.
b. Abbreviations and Symbols.
c. Hardware for Labeled Fire Doors.
d. Recommended Locations for Builder's Hardware for Standard and Custom Steel Doors and Frames.
e. Wood Door Standards W1, W2, WDHS-2, WDHS-3.

4. National Fire Protection Association (NFPA) Publications:
   a. NFPA Pamphlet No. 80 - Standards for Fire Doors and Windows.
5. International Building Code - current edition as adopted and amended by the authority having jurisdiction.
6. Americans with Disabilities Act (ADA).

F. Keying Conference: Conduct conference in accordance with Section 013100. In addition to Owner, Construction Manager, and Architect, conference participants shall also include Installer's Architectural Hardware Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans forfuture expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Address and timeframe for delivery of keys and cores.

G. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Section013100 as follows:
1. Architectural Finish Hardware supplier (AFHS) shall conduct the preinstallation conference at the site. The AFHS shall instruct finish hardware installer on proper installation, adjustment and troubleshooting for each operable item of finish hardware specified. The AFHS shall observe the installation and adjustment of the first three locksets, closers and exit devices.

1.5 DELIVERY, STORAGE AND HANDLING

A. Package each hardware item in separate containers with all screws, wrenches, installation instructions and installation templates. Mark or tag each box with hardware heading and door number according to approved hardware schedule.

B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

C. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation. Provide a complete packing list showing items, door numbers and hardware headings with each shipment.

D. Store hardware in shipping cartons above ground and under cover to prevent damage.
1. Provide secure lockup for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

E. Aluminum Door Hardware - Deliver hardware for aluminum doors as directed by the door supplier for factory installation by the aluminum door manufacturer.

F. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

B. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, access control system, security system, and building control system, as applicable.

1.7 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

B. Maintenance Service: If there are any products listed hereinafter that normally require a maintenance or service contract, provide the Owner and Architect with details and costs of standard maintenance or service contract.

PART 2 - PRODUCTS

2.1 HARDWARE - GENERAL

A. Provide the materials or products indicated by trade names, manufacturer's name, or catalog number.

B. Provide manufacturer's standard products meeting the design intent of this Specifications, free of imperfections affecting appearance or serviceability.
1. Base Metals: Produce hardware units of basic metal and forming method indicated using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units for finish designations indicated.
2. Provide hardware complete with all fasteners, anchors, instructions, layout templates, and any specialized tools as required for satisfactory installation and adjustment.
3. Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
4. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated or approved. Finish screws exposed under any condition to match hardware finish or, if exposed in surfaces of other work, to match finish of such other work as closely as
5. Finish all other hardware in accordance with the BHMA finish as follows, unless otherwise indicated in manufacturers screws to secure hardware.
6. Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work, except where indicated otherwise or where it is not feasible to adequately reinforce the work. In such cases, provide sleeves for each thru-bolt or use sex bolt fasteners.
7. Provide factory pinned cylinders and cores.

C. Hardware is specified in the hardware schedule by set, type, and functions which have been selected as best meeting the application requirements. Acceptable products for each category are specified under PART 2 of this Specification.

2.2 SPECIAL REQUIREMENTS

A. Hinges:

1. Provide non-removable pins for all exterior doors and out-swinging corridor doors. Use nonrising pins for all other doors.
2. Pre-drill pilot holes for hinge fasteners at factory to suit hinge type.
3. Provide pivots or continuous hinges where specified.

B. Locksets:
1. Locksets shall meet or exceed ANSI Grade 1 requirements.
2. Classroom locks shall have the ability to lock outside trim from the inside via a key.
3. Provide vandle resistant levers where specified.

C. Panic Devices:
1. Non-rated panic devices are to incorporate cylinder dogging.
2. Exit devices are to incorporate a flush and tapered end cap.
3. Hardware mullions are to be of the same manufacturer as the panic device. Provide keyed mullions unless otherwise specified. Provide mullion storage kits where specified.
4. Provide electrical options as specified.

D. Closers:
1. Comply with manufacturer's recommendations for unit size based on door size, weather exposure and usage.
2. Provide parallel arms for all overhead closers, except as otherwise indicated.
3. Through-bolt all closer units, using sex bolt fasteners.
4. All surface closers shall exceed ANSI A156.4 Grade 1 requirements in all aspects as called for below. All closers shall have certification by an independent testing laboratory of 10,000,000 cycles without failure. Provide special rust inhibitive primer (SRI) where specified.
5. Closers shall maintain control of the door in all conditions. Closers shall have 3 non critical adjusting valves: latch, main and backcheck. Where specified backcheck shall take affect at 45 (AVB) degrees of opening for parallel arm closers and 70 degrees for regular arm closers. Closers with pressure relief valves are not acceptable.
6. Closer cylinders shall be cast iron. Closer pinions shall be dual heat treated. Pinion and piston shall be steel alloy. Piston diameter shall be minimum 1-1/2”.
7. Furnish all brackets, drop plates and any other necessary hardware required to insure proper installation.

E. Stops
1. Provide heavy duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide overhead stop at any door that swings more than 140 degrees before striking wall, opens against equipment, casework, sidelights, and where conditions do not allow wall stop.
2. Provide floor stops only where specified.

2.3 KEYING

A. All keying shall be accomplished at hardware manufacturer's plant where adequate records are maintained in order to avoid duplication of changes.

B. All cylinders to be keyed to the districts existing Schlage Primus masterkey system. Hardware supplier to verify proper key system. Keying schedule must be approved by the Owner prior to ordering locks.
1. Locks and cylinders are to accept a Schlage large format interchangeable core.
2. Provide construction cylinders for all keyed exterior doors and all aluminum doors during construction. Provide 20 additional temporary cylinders for locking interior doors.
3. Provide the correct type of cylinder for each hardware application, and supply cylinder with correct tailpiece and/or cam.

C. Key all locks separately, or alike, as directed by the Owner’s representative and Architect.

D. Provide keys as follows:
   1. Change Keys: Three (3) per lock.
   2. Master Keys: Three (3) required (per system).
   3. Grand Master Keys: Five.

E. Identification: Stamp all (master-type) keys with the following:
   1. Do Not Duplicate.
   2. Key change number (all keys).

2.4 KEY CONTROL SYSTEM

A. Key Control System Manufacturers:
   1. Acceptable Manufacturers: Telkee, Lund

B. Requirements:
   1. Provide a key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of the number of locks required for the Project.
   2. Provide complete cross index system set up by the hardware supplier, and place keys on markers and hooks in the cabinet as determined by the final key schedule.

2.5 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Requirements:

   1. Provide thresholds, weatherstripping (including door sweeps, seals, astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
   2. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
   3. Gasketing and astragals on aluminum frames by door manufacturuer.

2.6 SILENCERS

A. Requirements:

   1. Provide "push-in" type silencers for hollow metal or wood frames.
   2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
   3. Omit where gasketing is specified.

2.7 HARDWARE FINISHES

A. Provide matching finishes for hardware units at each door to the greatest extent possible, unless otherwise indicated. In general, match items to the finish for the latch, lock or push-pull unit for color and texture.

B. Thresholds (087100.A01): Clear, anodized aluminum.
   1. Handicap accessible threshold (087100, A02).
      a. Product description or schedule:
         1) 626 satin chrome-plated.
         2) 630 satin stainless steel.

2.8 HARDWARE PRODUCTS

A. Hinges:
   1. Specified manufacturer: IVES Hardware; an Allegion Company.
   2. Acceptable substitutions:
      a. Hager Companies.
      b. McKinney Products Company; an ASSA ABLOY Group company.
      c. Stanley Commercial Hardware; Div. of The Stanley Works.

B. Continuous Gear-Type Hinges:
   1. Specified manufacturer: IVES Hardware; an Allegion Company.
   2. Acceptable substitutions:
      a. Hager Companies.
      b. Select Products Limited.

C. Locksets:
   1. Specified manufacturer: Schlage Commercial Lock Division; an Allegion Company.
   2. Substitutions: Not allowed. Products to match District standard.

D. Electronic Strikes:
   1. Specified manufacturer: Von Duprin; an Allegion Company.
   2. Acceptable Substitutions: HES; an ASSA Abloy Company.

E. Exit Devices:
   1. Specified manufacturer: Von Duprin; an Allegion Company
   2. Substitutions: Not allowed. Products to match District standard.

F. Closers:
   1. Specified manufacturer: LCN Closers; an Allegion Company.
   2. Substitutions: Not allowed. Products to match District standard.

G. Flatgoods:
   1. Specified manufacturer: Ives Hardware; an Allegion Company.
   2. Acceptable substitutions:
      a. Burns Manufacturing Incorporated.
      b. Rockwood; an ASSA Abloy Company.

H. Stops:
   1. Specified manufacturer: Ives Hardware; an Allegion Company.
   2. Acceptable substitutions:
      a. Burns Manufacturing Incorporated.
      b. Rockwood; an ASSA Abloy Company.
      c. Trimco

I. Overhead stops:
   1. Specified manufacturer: Glynn-Johnson; an Allegion Company.
   2. Acceptable substitutions:
      a. Architectural Builders Hardware Mfg., Inc.
      b. Door Controls International.
      c. Ives Hardware; an Allegion Company.
      d. Rixson Specialty Door Controls; an ASSA ABLOY Group.
      e. Trimco.

J. Electronic components:
   1. Specified manufacturer: Schlage Electronics; an Allegion Company.
   2. Acceptable substitutions:
      a. GE-Interlogix.
      b. Security Door Controls.
      c. Camden Door Controls.

K. Thresholds:
   1. Specified manufacturer: Zero International.

2. Acceptable substitutions:
    a. Pemko Manufacturing Co. ; an ASSA Abloy Company.
    b. Reese Enterprises.
    c. National Guard Products.

L. Door Gasketing:
1. Specified manufacturer: Zero International.
2. Acceptable substitutions:
    a. Pemko Manufacturing Co. ; an ASSA Abloy Company.
    b. Reese Enterprises.
    c. National Guard Products.

M. Weatherstriping:
1. Specified manufacturer: Zero International.
2. Acceptable substitutions:
    a. Pemko Manufacturing Co. ; an ASSA Abloy Company.
    b. Reese Enterprises.
    c. National Guard Products.

PART 3 - EXECUTION

3.1 PREPARATION

A. Carefully inspect doors, frames, and conditions under which hardware will be installed. Notify the Architect of any conditions that would adversely affect the installation or subsequent door operations. Do not proceed until unsatisfactory conditions are corrected.
1. Frames shall be verified, inspected, and confirmed by General Contractor as being plumb and true.

B. Refer to Sections 081113, 081416, and 084113 for additional installation requirements.

C. Prior to hardware installation, the Hardware Supplier shall meet with the Owner's Representative, Architect, and Hardware Installer to ensure the Installer has and understands the manufacturers' installation requirements for all hardware items.
1. The Supplier shall observe the installation of the first lockset, closer and panic device.

3.2 INSTALLATION

A. Mount Hardware units at heights indicated in respective DHI Standards, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.

B. Install each hardware item in compliance with the manufacturer's instructions and written recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be field finished, coordinate removal, storage and reinstallation or application of surface protections with finishing work. Do not install surface-mounted items until finishes have been completed on the substrate.

C. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
1. Special care shall be taken to avoid damaging surrounding surfaces.

D. Provide fasteners and anchoring devices of suitable size, quantity, and type to secure hardware in proper position for heavy use and long life.
1. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

E. Adjust door closers immediately upon installation. Adjust in exact conformance with manufacturer's printed instructions. Advance backcheck to eliminate shock at dead stop. Set latching speed to assure unassisted positive latching.
   1. Degrees of swing of doors for self-limiting closers shall be maximum available.

F. Install each protection plate with a thinly-spread spot of mastic at its center to assure even contact before fastening with screws. Install all such plates on visual centers of closed doors. Set bottom edges of all such plates flush with door bottom.

G. Cut and fit thresholds to door frame profiles. Prepare thresholds for the attachment of strikes and clearance for spindles as required. Set thresholds in a continuously laid bed of polyisobutylene mastic sealant to completely fill voids and exclude moisture from every source.

H. Seal weather protection components attached to the exterior sides of doors and frames, such as drip caps and weatherstripping, in place with clear silicone caulk in such a manner as to ensure a continuously filled seam throughout the joinery.

I. Cut and fit weatherstripping accurately to provide the greatest possible continuity of the contact element. Adjust closer templating as required.

J. At exterior doors, obtain satisfactory operation of the installation, then apply a thin layer of clear silicone caulk under hinge leaves, and outside lock trim. Remove excess caulk after torquing fasteners.

3.3 ADJUST AND CLEAN

A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
   1. Clean adjacent surfaces soiled by hardware installation.

B. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.4 INSTRUCTION AND INSPECTION

A. Instruct Owner's Personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

B. After hardware is installed and adjusted, the Supplier shall inspect the job with the Architect and the Contractor to determine if the hardware is functioning properly.
   1. Maintain the instruction sheets, layout templates, and any supplementary literature regarding hardware in a readable condition. Transmit all such items to the Owner's Representative, together with all spare parts, specialized tools, other accessories supplied with the hardware, and a copy of the approved hardware schedule at the time of instruction.

C. Continued Maintenance Service: Approximately six months after the acceptance of hardware in each area, the Installer, accompanied by the representative of the latch and lock manufacturer, shall return to the project and re-adjust every item of hardware to restore proper function of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units at no cost to the Owner. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.5 DOOR HARDWARE SCHEDULE

A. The hardware sets listed below represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process.

B. Hardware Sets

HARDWARE SET 01

DOOR NUMBER:
C100A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954-MT54	689	VON
1	EA	PANIC HARDWARE	CD-99-DT	626	VON
1	EA	ELEC PANIC HARDWARE	LX-CD-99-NL	626	VON
2	EA	MORTISE CYLINDER	20-059	626	SCH
1	EA	RIM HOUSING	20-079	626	SCH
3	EA	FSIC CONST. CORE	23-030-ICX		SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	100S (AT LEAF WITH AUTO OPERATOR)	630	GLY
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	ACTUATOR, JAMB MOUNT	8310-818T	630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN
1	EA	BOLLARD POST	8310-866	AL	LCN
2	EA	DOOR SWEEP	39A	A	ZER
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER ASTRAGAL BY DOOR SUPPLIER		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PANICS MAY BE DOGGED (MADE PUSH/PULL) WITH KEY. ACTUATORS ONLY OPERABLE WHEN PANIC IS DOGGED. ALWAYS FREE EGRESS.

HARDWARE SET 01A

DOOR NUMBER:
A101A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954-MT54	689	VON
1	EA	PANIC HARDWARE	CD-99-DT	626	VON
1	EA	ELEC PANIC HARDWARE	LX-QEL+-SD-99-NL	626	VON
2	EA	MORTISE CYLINDER	20-059	626	SCH
1	EA	RIM HOUSING	20-079	626	SCH
3	EA	FSIC CONST. CORE	23-030-ICX		SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	100S (AT LEAF WITH AUTO OPERATOR)	630	GLY
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	ACTUATOR, JAMB MOUNT	8310-818T	630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN
2	EA	DOOR SWEEP	39A	A	ZER
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
1	EA	DESK MOUNT BUTTON	660-PB	628	SCE
1	EA	POWER SUPPLY	PS902 900-4RL-FA	LGR	VON
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER ASTRAGAL BY DOOR SUPPLIER		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PANICS MAY BE DOGGED (MADE PUSH/PULL) WITH KEY. PUSH BUTTON UNLOCKS ACTIVE LEAF FROM DESK. ACTUATORS ONLY OPERABLE WHEN PANIC IS DOGGED. ALWAYS FREE EGRESS.

HARDWARE SET 02

DOOR NUMBER:
A101B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	KEYED REMOVABLE MULLION	KR4954-MT54	689	VON
1	EA	PANIC HARDWARE	CD-99-DT	626	VON
1	EA	ELEC PANIC HARDWARE	LX-CD-99-NL	626	VON
2	EA	MORTISE CYLINDER	20-059	626	SCH
1	EA	RIM HOUSING	20-079	626	SCH
3	EA	FSIC CONST. CORE	23-030-ICX		SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	100S (AT LEAF WITH AUTO OPERATOR)	630	GLY
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
2	EA	ACTUATOR, JAMB MOUNT	8310-818T	630	LCN
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. PANICS MAY BE DOGGED (MADE PUSH/PULL) WITH KEY. ACTUATORS ONLY OPERABLE WHEN PANIC IS DOGGED. ALWAYS FREE EGRESS.

HARDWARE SET 03

DOOR NUMBER:

B101A	B101B	C101

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112HD	628	IVE
1	EA	KEYED REMOVABLE MULLION	KR4954-MT54	689	VON
1	EA	PANIC HARDWARE	CD-99-DT	626	VON
1	EA	PANIC HARDWARE	CD-99-NL	626	VON
2	EA	MORTISE CYLINDER	20-059	626	SCH
1	EA	RIM HOUSING	20-079	626	SCH
3	EA	FSIC CONST. CORE	23-030-ICX		SCH
3	EA	PRIMUS CORE	20-740	626	SCH
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
2	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
2	EA	BLADE STOP SPACER	4110-61	689	LCN
2	EA	DOOR SWEEP	39A	A	ZER
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER ASTRAGAL BY DOOR SUPPLIER		

HARDWARE SET 04

DOOR NUMBER:

A121B	A125B	A129B	A132B	A136B	B121B
B125B	B131B	B135B	B140B	C118B	C122B
C123B	C127B	C131B	C132B		

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER		

HARDWARE SET 05

DOOR NUMBER:

C107B C110B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4111 SHCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	ARMOR PLATE	8400 36" X 2" LDW B-CS	630	IVE
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER
1	EA	DOOR VIEWER	U698	626	IVE
	EA	NOTE	WEATHERSTRIP BY DOOR SUPPLIER		

HARDWARE SET 06

DOOR NUMBER:

B111B B115B B126B B130B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	MULT PT STOREROOM	LMV9380T 06A	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429A	A	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-MSLA-10	A	ZER
1	EA	RAIN DRIP	142A	A	ZER

HARDWARE SET 07

DOOR NUMBER:
A102A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95TD RHO XN12-035	626	SCH
1	EA	MORTISE CYLINDER	20-059	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ELECTRIC STRIKE	6211AL FSE	630	VON
1	EA	OH STOP	100S	630	GLY
1	EA	SURF. AUTO OPERATOR	4642	689	LCN
2	EA	ACTUATOR, JAMB MOUNT	8310-818T	630	LCN
1	EA	KEYSWITCH	653-1414 NS L2	630	SCE
1	EA	POWER SUPPLY	PS902 900-4RL-FA	LGR	VON

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. LOCK CAN BE LOCKED/UNLOCKED VIA KEY. AUTO OPERATOR AND ELECTRIC STRIKE MAY BE TURNED ON/OFF VIA KEYSWITCH. ACTUATORS ONLY OPERABLE WHEN AUTO OPERATOR IS ON. ALWAYS FREE EGRESS.

HARDWARE SET 08

DOOR NUMBER:
A102B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95TD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE

HARDWARE SET 09

DOOR NUMBER:
C113

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	CD-9927-DT-LBR	626	VON
1	EA	PANIC HARDWARE	CD-9927-NL-LBR	626	VON
2	EA	MORTISE CYLINDER	20-059	626	SCH
1	EA	RIM HOUSING	20-079	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
2	EA	SURFACE CLOSER	4111 EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850	689	LCN
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 10

DOOR NUMBER:
C100B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	330	626	VON
2	EA	TRIM	990-DT	626	VON
1	EA	OH STOP	100S (AT DOOR WITH AUTO OPERATOR)	630	GLY
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	ACTUATOR, JAMB MOUNT	8310-818T	630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN

HARDWARE SET 11

DOOR NUMBER:
C107A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP & HOLDER	90H	630	GLY
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	ARMOR PLATE	8400 36" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 11A

DOOR NUMBER:
C110A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4011 DEL	689	LCN
1	EA	ARMOR PLATE	8400 36" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S-BK	S-BK	ZER

HARDWARE SET 12

DOOR NUMBER:
C111 C112

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	ARMOR PLATE	8400 36" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 13

DOOR NUMBER:

A111 A119 C102

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	90S (AT C102 ONLY)	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 14

DOOR NUMBER:

B110A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	WS-CD-9927-DT	626	VON
1	EA	PANIC HARDWARE	WS-CD-9927-TL-374T-990DT	626	VON
3	EA	MORTISE CYLINDER	20-059	626	SCH
3	EA	PRIMUS CORE	20-740	626	SCH
2	EA	SURFACE CLOSER	4111 EDA	689	LCN
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	FIRE/LIFE WALL MAG	SEM7850	689	LCN
1	EA	GASKETING	488S-BK	S-BK	ZER
1	EA	ASTRAGAL SET	328AA	AA	ZER

HARDWARE SET 14A

DOOR NUMBER:
B110B

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224HD	628	IVE
2	EA	PANIC HARDWARE	WS-LD-9927-L-BE-06	626	VON
2	EA	SURFACE CLOSER	4111 EDA	689	LCN
2	EA	WALL STOP/HOLDER	FS495	626	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488S-BK	S-BK	ZER
1	EA	ASTRAGAL SET	328AA	AA	ZER

HARDWARE SET 15

DOOR NUMBER:
A120

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 16

DOOR NUMBER:

A116A	A121A	A125A	A129A	A132A	A136A
A140A	B104	B106	B111A	B115A	B121A
B125A	B126A	B130A	B131A	B135A	C103
C118A	C122A	C123A	C127A	C131A	C132A

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95JD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4011 H	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436 (WHERE WALL STOP IS NOT COMPATIBLE WITH WALL CONDITION)	626	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	FINGER GUARD	51A-120	A	ZER
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 17

DOOR NUMBER:

A109

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	VANDL CLASSROOM SEC	ND95JD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	FINGER GUARD	51A-120	A	ZER
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 18

DOOR NUMBER:

A103	A104	A105	A106	A107	A114
A115	A116B	B108	C104	C105	C106

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 19

DOOR NUMBER:

A112	A113

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S RHO	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 20

DOOR NUMBER:

A117

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S RHO	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 21

DOOR NUMBER:

A123A	A123B	A127	A134A	A134B	A138
B107	B113A	B113B	B123A	B123B	B128A
B128B	B133A	B133B	C120A	C120B	C125
C129A	C129B	C134			

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	FINGER GUARD	51A-120	A	ZER
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 22

DOOR NUMBER:

A124A	A124B	A128	A135A	A135B	A139
B114A	B114B	B124A	B124B	B129A	B129B
B134A	B134B	C121A	C121B	C126	C130A
C130B	C135				

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD (CUT FOR DUTCH DOOR)	628	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	WALL STOP/HOLDER	FS495	626	IVE
1	EA	FINGER GUARD	51A-120	A	ZER
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 23

DOOR NUMBER:

A122A	A122B	A126	A133A	A133B	A137
B112A	B112B	B122A	B122B	B127A	B127B
B132A	B132B	C119A	C119B	C124	C128A
C128B	C133				

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	FINGER GUARD	51A-120	A	ZER
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 24

DOOR NUMBER:

C108	C109

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4"X16"	630	IVE
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET 25

DOOR NUMBER:

B111C	B115C	B126C	B130C

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		HARDWARE BY DOOR / FRAME MANUFACTURER		

HARDWARE SET 26

DOOR NUMBER:
GATE1 GATE2

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	98-NL-OP-110MD-WH	630	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CONST. CORE	23-030-ICX		SCH
1	EA	PRIMUS CORE	20-740	626	SCH
	EA	NOTE	REMAINDER OF HARDWARE BY DOOR SUPPLIER		

NOTE: COORDINATE HARDWARE REQUIREMENTS WITH GATE SUPPLIER.

Door/Hardware Index

Door #	HWSet #
A101A	01A
A101B	02
A102A	07
A102B	08
A103	18
A104	18
A105	18
A106	18
A107	18
A109	17
A111	13
A112	19
A113	19
A114	18
A115	18
A116A	16
A116B	18
A117	20
A119	13
A120	15
A121A	16
A122A	23
A122B	23
A123A	21
A123B	21
A124A	22
A124B	22
A125A	16
A126	23
A127	21
A128	22
A129A	16
B101A	03
B101B	03
B104	16
B106	16
B107	21
B108	18
B110A	14
B110B	14A

Door #	HWSet #
B111A	16
B111C	25
B112A	23
B112B	23
B113A	21
B113B	21
B114A	22
B114B	22
B115A	16
B115C	25
B121A	16
B122A	23
B122B	23
B123A	21
B123B	21
B124A	22
B124B	22
B125A	16
B126A	16
B126C	25
B127A	23
B127B	23
B128A	21
B128B	21
B129A	22
B129B	22
B130A	16
B130C	25
B131A	16
B132A	23
B132B	23
B133A	21
B133B	21
B134A	22
B134B	22
B135A	16
C100A	01
C100B	10
C101	03
C102	13

Door #	HWSet #
C103	16
C104	18
C105	18
C106	18
C107A	11
C107B	05
C108	24
C109	24
C110A	11A
C110B	05
C111	12
C112	12
C113	09
C118A	16
C119A	23
C119B	23
C120A	21
C120B	21
C121A	22
C121B	22
C122A	16
C123A	16
C124	23
C125	21
C126	22
C127A	16
C128A	23
C128B	23
C129A	21
C129B	21
C130A	22
C130B	22
C131A	16
C132A	16
C133	23
C134	21
C135	22
GATE1	26
GATE2	26

ALT 1

Door #	HWSet #
A121B	04
A125B	04
A129B	04
B111B	06
B115B	06
B121B	04
B125B	04
B126B	06
B130B	06
B131B	04
B135B	04
C118B	04
C122B	04
C123B	04
C127B	04
C131B	04
C132B	04

ALT 2

Door #	HWSet #
A132A	16
A132B	04
A133A	23
A133B	23
A134A	21
A134B	21
A135A	22
A135B	22
A136A	16
A136B	04
A137	23
A138	21
A139	22
A140A	16
B140B	04

END OF SECTION

Pre-Bid Conference

Joplin Early Childhood

Project No.:16054

Date: Oct 13, 2016
By: Ryan Walters

INTRODUCTIONS

Owner Representatives:
- Dr. Kerry Sachetta, Assistant Superintendent of Operations
- David Pettit, Project Manager
- Mark Barlass, Executive Director of Student Services
- Amanda Boyer, Director of Early Childhood

Architects/ Structural: Hollis + Miller Architects
- John Brown, Partner in Charge
- Ryan Walters, Project Architect
- David Hackney, Structural
- Phone: 816-525-5600
- rwalters@hollisandmiller.com

Grant Consultant to Hollis + Miller Architects
- Ashley Micklethwaite
- ashleymickle@outlook.com

Civil Engineer/ Geotechnical Engineer: Anderson Engineering
- Wayne Stephenson, Project Manager
- Cody White, Laboratory Manager
- Joshua Oathout, Design Engineer
- joathout@andersonengineeringinc.com

Landscape Architect: Land3 Studio
- Bob Bushyhead, Principal
- Michael Killeen, Landscape Architect
- MKilleen@land3studio.com

Mechanical/ Electrical: Smith & Boucher Eng.
- Aaron Blush - Elect
- Phone: 913.345.2172
- ablush@smithboucher.com
- Matt Heinrich – Mech/ Plumb

MHeinrich@smithboucher.com

Deloitte Associate
Travis Green
travgreen@deloitte.com

Bidders:

PROPOSAL FORM

1. Examine all Construction Documents, Project Site, and all conditions affecting the work.
2. Provide Base Bid Sum.
3. Provide Unit Prices as indicated.
4. Provide Alternate Prices (additions and deducts) as indicated.
5. Provide list of major subcontractors as indicated. (by 4:00 one day after Bid)
6. Owner reserves right to waive any informalities and to reject any or all Bids.
7. Owner, Architect, and other Bidders released from any claims relating to acceptance, non-acceptance or rejection of any Bidders.
8. The following documents must accompany all bids per CDBG Requirements (refer to Section 008400 in Project Manual)
    a. Certification of Bidder Regarding Equal Employment Opportunity
    b. Certification of Contemplated Minority, Women, and Section 3 Business Utilization
    c. Certification by Proposed Subcontractor Regarding Equal Employment Opportunity. (by 4:00 one day after Bid)

INVITATION TO BID

1. Construction Documents distributed from Springfield Blueprint Company.
2. Bid opening will be held at **November 1th at 2pm, Joplin School District Offices.**
3. Bids valid for sixty (60) days.
4. Corporations require corporate seal.
5. Each Bid is to be accompanied by a Bid Bond (or Cashier's check, or Certified check) in the amount of 5% of the total bid submitted. Check is to be made payable to Owner.
    a. Bidders discovering any discrepancies, omissions, etc., shall advise the Architect who will issue any necessary clarifications by Addendum to all listed plan holders.
    b. Faxed bids will not be accepted.

c. Bids submitted after deadline will be returned unopened.
d. Within three (3) days after selection, selected Bidders to submit:
    i. Statement of costs of major portions of Work (schedule of values).
    ii. Description of Work to be performed by Bidders own forces.
    iii. List of Job Superintendent and all Subcontractors.

SUPPLEMENTARY INFORMATION FOR BIDDERS

1. Basis for Instructions – CDBG Information For Bidders – Section 002100 and 002200 in the project manual.
2. Substitutions to follow guidelines per Section 012500. Substitutions Request form must be completed and submitted by October 21st. Must include form. Approval of substitutions will be part of final addendum on October 25th. please email substitution requests to rwalters@hollisandmiller.com

SUPPLEMENTARY GENERAL CONDITIONS

1. Basis for General Conditions – CDBG Contract – Section 007200 and 007300 in the project manual.
2. Contractor guarantees all work for one (1) year from Date of Substantial Completion.
3. Contractor shall keep up-to-date Record Drawings.
4. Weather day delays are allotted (Section – 007300).
5. Substitutions after execution of Contract constitute Changes in the Work and must be incorporated into Project by Change Order.
6. Contractor agrees to pay $1500 per day to Owner for every calendar day that the Project is not completed beyond the Contract Time until work is substantially complete, and until Contractor delivers to Owner Certificate of Occupancy.
7. Contractor shall submit three (3) notarized copies each of AIA Documents G702 and G703 - Application for Payment. Applications for Payment must be received by the Architect by the 25th of the month for submittal to Owner by last day of the month. Payment will be issued by Owner within14 days following receipt of Architect's Certification.
8. Five percent (5%) of Sum of Application for Payment retained until Project is Substantially Complete. No further retainage will be withheld provided work and performance have been satisfactory.
9. Required insurance listed Section 007200 and 007300.

ADDITIONAL INFORMATION

1. Important dates:
    a. Substitution requests: October 21 – COB to H+M
    b. Final Addendum Release: October 25
    c. Bid Opening: November 1, 2016
    d. Start of Construction: December 1st ,2016

e. Substantial Completion: July 1st , 2018
f. Final Completion: August 1st , 2018

2. Scope
    a. Approx. 38,000 sq ft, 1 story school.
    b. Load bearing structural stud walls, metal stud roof trusses, outboard continuous insulation, metal panel, EIFS and brick.
    c. All roof drainage is conductor head, gutter, downspout.
    d. Roof is mechanically fastened TPO and standing seam metal panel.
    e. High Wind Shelter – 250 mph – (4) classrooms and corridor, CMU walls, precast hollow core roof slab.
    f. Site:
        i. Roads, parking, playgrounds, play equipment
        ii. Retaining wall along north, east, and west property lines.
        iii. Known mines below portions of the site. Building sited to avoid mines and associated geology.
    g. Mech/ Plumb/Elec:
        i. Sprinkler system.
        ii. VAV Roof Top Units serving fan powered VAV boxes with electric reheat.
        iii. LED Lighting.
        iv. Instantaneous gas water heaters.
3. Alternates – see attached list
4. Unit Prices – see attached list
5. Temporary construction plan
    a. Parking lot to the east of the site is owned by the district.
    b. Electrical service will have to be relocated. Power to Irving Elementary must remain undisturbed.

<u>QUESTIONS???</u>

1. Will the general contractor be performing all special inspections / testing?
    a. Answer: All special inspections and testing will be handled by the owner.
2. On sheet C102 of the civil documents, there is an alternate listed for concrete paving instead of asphalt paving. Which is the base bid and how do you bid the two types of paving?
    a. Answer: The concrete paving alternate will be removed from the civil documents. The only bid will be for asphalt paving, plus the alternate asphalt pavement.
3. Will the general contractor be responsible for filing a land disturbance permit and who will responsible for the associated filling fee?
    a. Answer: The design team's civil engineers will prepare the land disturbance permit documents and will require the general contractor's signatures. The owner will be responsible for the filling fee and executing permit through DNR with engineers help.
4. What constitutes unsuitable soil?
    a. Refer to the Site Development section beginning on page 30 of the

Geotech Report.

5. Who will pay the temporary utility company fees etc.?
    a. Answer: Reference Article 10 of Community Development Block Grant Program General Conditions for temporary licenses and permits.
6. What is the magnitude of the project?
    a. Answer: $7,000,000.00 to $8,000,000.00.
7. Will material escalation be allowed?
    a. Answer: No material escalation will be allowed. Note, although there is a generous construction schedule, there is no need for the contractor to stretch out the construction process. Given the size and simplicity of the building a shorter construction period is anticipated but not required.
8. Where is the telecommunication information on the drawings?
    a. Refer to the power floor plans and associated notes and schedules.
9. Will non-set accelerating corrosion inhibiting admixture be used?
    a. This is deleted from the project in Addendum #2.
10. Will capillary break admixtures be used? If used, can it be added at the batch plant?
    a. Answer: Yes, capillary break admixtures will be used at all interior slabs. Refer to revised section 033000 2.17 A.2 – the admixture will be added at the jobsite or batch plant in accordance with the admixture's manufacturer's written instructions.
11. Can we use an air entrained footing mix if it meets the slump, and water / cement ratio requirements?
    a. Answer: Yes, as long as it meets slump, water / cement ratio and strength.
12. How will the verification of the 0.42 water / cement ratio be enforced?
    a. Refer to new spec information 033000 1.4.B.1.a.
13. Is super-plasticizer allowed on interior slabs on grade?
    a. Yes, as long as the water / cement ratio and strength requirements are met.
14. For the lightweight concrete topping, would we be allowed to use 18% fly ash and 5-8% air entrainment?
    a. Refer to the revised section 033000 2.15 E. Light weight concrete has been removed from the project. Normal weight concrete topping is required.

ADDENDUM 002

October 25, 2016

JOPLIN EARLY CHILDHOOD CENTER
ADDENDUM #2

SPECIFICATIONS

DRAWINGS – The following plan sheets have been modifies as follows. Replace entire sheet(s) with provided addenda.

Sheet L100 – PLAY AREA & FURNISHING PLAN
- A. **REVISE** play area surfaces

Sheet L101 – PLAY AREA ENLARGEMENT - SURFACING
- A. **REVISE** edge of artificial turf play surface
- B. **ADD** rubber surfacing within daycare play area

Sheet L102 – PLAY AREA ENLARGEMENT - LAYOUT
- A. **REVISE** layout of swings.
- B. **REVISE** layout of concrete band at artificial turf
- C. **ADD** concrete curb within daycare play area

Sheet L103 – PLAY AREA ENLARGEMENT – GRADING & DRAINAGE
- A. **REVISE** subdrain line within artificial turf area
- B. **ADD** subdrain line within rubber surface area

Sheet L104 – PLAY AREA ENLARGEMENT – PLAYGROUND EQUIPMENT
- C. **REVISE** layout of swings.

Sheet L110 – PLAY AREA DETAILS
- A. **REVISE** detail #6
- B. **REVISE** detail #11

Sheet L200 – LANDSCAPE PLAN (BASE BID)
- A. **REVISE** plants in northwest play area
- B. **REMOVE** plants within daycare play area

Sheet L202 – LANDSCAPE PLAN ALTERNATES
- A. **REVISE** plants in northwest play area

Sheet L210 – PLAY AREA DETAILS
- A. **REVISE** detail #8

Sheet L300 – IRRIGATION PLAN (BASE BID)
- A. **REVISE** irrigation layout in northwest play area
- B. **REMOVE** irrigation within daycare play area
- C. **REVISE** irrigation schedule

Sheet L301 – IRRIGATION PLAN ALTERNATE
- A. **REVISE** irrigation layout in northwest play area

ANDERSON ENGINEERING
EMPLOYEE OWNED

ADDENDUM NO. 2

Issued: October 25, 2016

Project: Joplin Early Childhood, Package No. 2
2810 South McClelland Blvd
Joplin, Missouri 64804

Project No. 50040-16

Owner: Board of Education
Joplin Schools
3901 E. 32nd Street
Joplin, Missouri 64801

Bidding Documents Issued: September 30, 2016

This Addendum is hereby made a part of the Contract Documents to the same extent as if it were originally included therein. Receipt of this Addendum shall be acknowledged on the Proposal Form.

Any Specification Sections and Drawings attached herein shall hereby be made a part of the Contract Documents.

This Addendum includes these 3 page[**s**] and the following attachments:

Drawings:

Civil: C100, C102, C103, C104, C105, C106, and C109 consisting of 7 pages.

Added Details:

Civil: Typ. Mining Feature Structural Cap consisting of 1 page.

GENERAL – BIDDER'S QUESTIONS

G1 **QUESTION:** Is alternate seven contractor's choice of retaining wall? We choose if we want to construct it of modular block or cast in place concrete?

G1.1 Answer: Yes, alternate 7 will be contractor's choice between modular block and cast in place. The big difference between the base bid and the alternate bid is the

amount of traffic the retaining walls will be seeing. The base bid is for a retaining wall that is emergency vehicle traffic rated only. The base bid retaining wall is expected to possibly see on average 1 emergency vehicle every couple years on the gravel road above the retaining wall. This base bid retaining wall is under the assumption that the City of Joplin can keep regular Vehicular traffic other than emergency vehicles off the gravel road. The alternate bid is for a retaining wall which will receive constant vehicular traffic loads. The alternate retaining wall will allow the owner in the future to build a paved road over the currently existing gravel drive which will result in the alternate retaining wall to receive constant traffic loads.

G2 **QUESTION:** On addendum sheet C104 note D17 calls out HDPE pipe but says 4'x4'? D15 says its 18". Is D17 24" per the note about the downspout drains on the North side of the building?

G2.1 Answer: D17 should be an 18" HDPE pipe. The note about the downspout drains will be changed to dive 8" HDPE pipes into 18" stormpipe.

PROJECT MANUAL REVISIONS

DRAWINGS REVISIONS

C1 SHEET C100 – OVERALL SITE PLAN

C1.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete.

C2 SHEET C102 – SITE GEOMETRY PLAN

C2.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete.

C3 SHEET C103 – SITE GRADING PLAN

C3.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete.

C4 SHEET C104 – STORMWATER PLAN - SITE

C4.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete. Downspout note changed to dive 8" HDPE pipes into 18" stormpipe instead of 24". D17 size changed in Drainage Structures Index to show 18" instead of 4'x4' and Top elevation was changed to N/A. Area inlets were updated in the drainage structure table to show top elevation. Drainage structure table item D2 was updated and no longer shows top elevation. Water quality swale in drainage structures updated to show N/A for size. Water quality swale size shown with contours on sheet C103.

C5 SHEET C105 – STORMWATER POLLUTION PREVENTION PLAN

C5.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete.

C6 SHEET C106 – UTILITY PLAN

C6.1 Removed the planting beds w/in the daycare alternate footprint and replaced w/ concrete. Grease trap removed from the plan sheet.

C7 SHEET C109 – ADD ALTERNATES

C7.1 Add Alternate 7 note changed to provide cost for poured retaining wall OR block wall alternate. This will be contractor's choice between a poured wall or modular block wall. Add Alternate Modular Block Retaining Wall Detail has been added to the sheet. Refer to Question G1 for more information regarding base bid and add alternate retaining walls.

DETAIL REVISONS

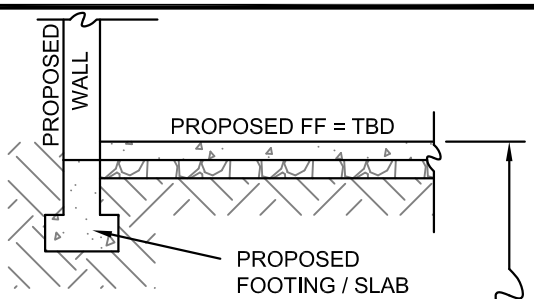
D1 TYP. MINING FEATURE STRUCTURAL CAP

D1.1 This detail has been added as a typical detail only for use of bidding purposes. This item should be a unit rate bid item due to the uncertainty of the amount of structural caps needed at the site. Typical installations of structural caps require 1 to 2 boulder truck loads. Any mine features discovered will need to be evaluated on a case by case basis to verify this design applies. It is likely during excavation that mine features will be discovered which will require a structural cap. All earthwork excavation should be done according to the civil drawings and geotech report. Refer to the geotech report for additional information regarding mining on site. Anderson Engineering must be notified of any suspected or possible mine features encountered prior to beginning excavation of suspected mine feature. Anderson Engineering must be present during excavation of any suspected mine feature.

END OF ADDENDUM NO. 2

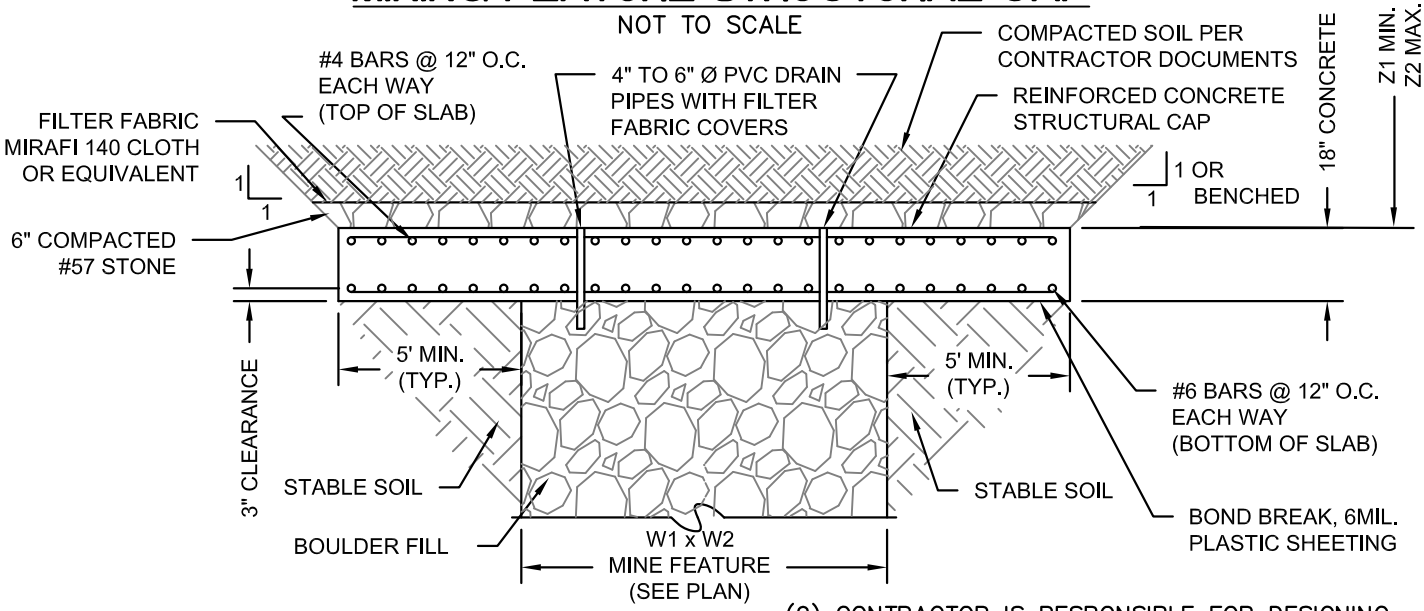
POINT COORDINATES			
	NORTHING	EASTING	ELEVATION
1	-- (6)	-- (6)	-- (6)
2	--	--	--
3	--	--	--
4	--	--	--

DIMENSIONS	
B1	18'
B2	18'
W1	8'
W2	8'
Z1	8'
Z2	14'



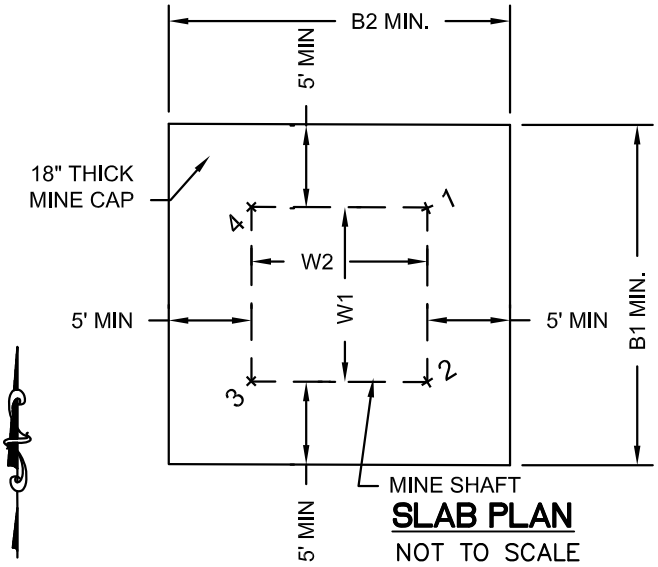
MINING FEATURE STRUCTURAL CAP

NOT TO SCALE



NOTE:

1) CLEAN LOOSE SOIL AND DEBRIS FROM BOTTOM OF EXCAVATION PRIOR TO PLACING BOULDER FILL.
2) THE FIRST LAYER OF BOULDER FILL SHOULD BE NESTLED INTO THE SOILS AT THE BOTTOM OF THE EXCAVATION. SUCCESSIVE LAYERS OF BOULDER FILL SHOULD BE PLACED AND CONSOLIDATED WITH THE EXCAVATION BUCKET UNTIL A DENSE CONDITION IS ACHIEVED.
3) ANDERSON ENGINEERING SHOULD BE PRESENT DURING MINE FEATURE EXCAVATION, DURING PLACEMENT OF BOULDER FILL AND TO VERIFY SOIL BEARING FOR STRUCTURAL CAP AND DIMENSIONS.
4) MINIMUM COMPRESSIVE CONCRETE STRENGTH:
   f'c= 4000PSI @ 28 DAYS
   (3000PSI MINIMUM FOR PLACEMENT OF FILL ON STRUCTURAL CAP)
5) REINFORCING STEEL fy = 60,000PSI
6) POINT COORDINATES ARE UNAVAILABLE. ENGINEER OF RECORD OR THEIR REPRESENTATIVE MUST BE PRESENT DURING EXCAVATION TO FIELD VERIFY DESIGN DEPTHS AND DIMENSIONS AND TO VERIFY SOIL BEARING CAPACITY.
7) SURVEY POINTS FOR AS-BUILT CONDITIONS.
8) MINING FEATURE STRUCTURAL CAP IS DESIGNED TO ADDRESS ONLY THE MINE FEATURE OBSERVED AT THE SURFACE. IT DOES NOT ADDRESS ANY DEEPER MINE FEATURES OR OPENINGS THAT MAY BE PRESENT.
9) CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE EXCAVATION SLOPES AND OR TEMPORARY SHORING AND BRACING. CARE MUST BE TAKEN NOT TO REMOVE REQUIRED SUPPORT FOR EXISTING FOUNDATIONS.
10) THIS IS A TYPICAL DETAIL ONLY FOR USE OF BIDDING PURPOSES. ANY MINE FEATURES DISCOVERED WILL NEED TO BE EVALUATED ON A CASE BY CASE BASIS TO VERIFY THIS DESIGN APPLIES.



SLAB PLAN

NOT TO SCALE

ANDERSON ENGINEERING

ENGINEERS • SURVEYORS • LABORATORIES • DRILLING

811 E. 3RD STREET• JOPLIN, MISSOURI 64801• PHONE (417) 782-7399

JOPLIN EARLY CHILDHOOD CENTER

-

TYP. MINING FEATURE STRUCTURAL CAP

JOPLIN, JASPER COUNTY, MISSOURI

DRAWN BY: JCO

DATE: 10/20/2016

CLIENT NO: 50040-16

smith&boucher ENGINEERS

25501 west valley
parkway
suite 200
olathe, ks 66061
p.913.345.2127
f.913.345.0617

Project: Joplin Early Childhood Center
Smith & Boucher Project Numbers 1617200

The information included herein represents mechanical, electrical, and plumbing (MEP) modifications to the Bid Documents dated 09-30-16and shall be incorporated into the overall information for "ADDENDUM #2" dated 10-24-2016 as issued by the Architect.

PROJECT MANUAL:

1. **Section 271323 – Communications Optical Fiber Backbone**
   - Add entire section.

2. **Section 282300 – Video Surveillance**
   - Add entire section.

DRAWINGS:

1. **ME201 – SITE PLAN**
   A. See full size drawing for added flagpole lighting.

2. **E201A – FLOOR PLAN - AREA A - POWER**
   A. See full size drawing for added security camera locations.
   B. See full size drawing for added intercom push button locations.
   C. See full size drawing for revised vestibule and lobby layouts.

3. **E202B – FLOOR PLAN - AREA B - POWER**
   A. See full size drawing for added security camera locations.
   B. See full size drawing for added intercom push button locations.

4. **E203C – FLOOR PLAN - AREA C - POWER**
   A. See full size drawing for added security camera locations.
   B. See full size drawing for added intercom push button locations.
   C. See full size drawing for location of secondary IT switch and revised cable tray routing.

5. **E301 – SCHEDULES - ELECTRICAL**
   A. See full size drawing for added in-grade lighting for flagpole.

GENERAL NOTES:

1. **CLARIFICATION OF ELECTRICAL SPECIAL SYSTEMS**.
   A. Intercom system includes talk back speakers in classrooms with intercom push buttons near classroom entrances.
   B. Secured entrance system includes door contacts at indicated exterior doors. Cabling to be routed back to a central security station where each door can be individually scheduled for arming and duration that door is able to be opened before triggering the alarm. Manual remote system arm/disarm keypads are near the secured exterior doors.
   C. Main entrance to include a pushbutton request to enter with audio intercom connection with front desk. When main entrance doors are scheduled to be locked (during school hours), remote pushbutton at front desk shall temporarily unlock the exterior vestibule door to allow entrance.
   D. Video surveillance system to be standalone for the Early Childhood Center with functionality similar to other district systems. Coordinate requirements with owner.

END OF MEP ITEMS FOR "ADDENDUM #2"

SECTION 271323 - COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING

PART 1 - GENERAL

1.1 SUMMARY

A. Provide a complete intra-building (premises) and inter-building (campus) optical fiber backbone cabling system in accordance with these Contract Documents. Including but not limited to, the following:
   1. Optical fiber cables.
   2. Splices (where required by these Contract Documents).
   3. Necessary installation and supporting hardware.

1.2 RELATED SECTIONS INCLUDE THE FOLLOWING

A. Except as modified by governing codes and by the Contract Documents, comply with the applicable provisions, requirements, and recommendations in Sections 27 00 00 - “Communications” and 27 13 00 – “Communications Backbone Cabling.”

1.3 CODES, REFERENCES, AND STANDARDS

A. Follow all applicable codes, references, and standards listed in Sections 27 00 00 - “Communications” and 27 13 00 – “Communications Backbone Cabling.”

1.4 WARRANTIES

A. As required by Section 27 13 00 – “Communications Backbone Cabling.”

1.5 SUBMITTALS

A. Follow the requirements for submittals in Sections 27 00 00 - “Communications” and 27 13 00 – “Communications Backbone Cabling.”

B. The following submittals are due at the “pre-construction” phase submission:
   1. Shop Drawings: As required by Section 27 13 00 – “Communications Backbone Cabling”
   2. Provide a typed list indicating part name, manufacturer, part number, and color (if applicable) for products specifically identified herein by the exact and complete part number (no wild-card characters)
   3. Submit manufacturers’ cut sheets or catalog cut sheets for all parts not specifically identified by its exact part number and for any product the installer is seeking to use as an equivalent replacement for a specified product.
   4. Required warranty information as indicated herein and elsewhere in this Division.

C. The following submittals are due at the “Project Completion” phase submission:
   1. As-built Drawings: As required by Section 27 13 00 – “Communications Backbone Cabling.”
   2. Warranty Certificate.
   3. Full test results sorted numerically by fiber strand ID.

PART 2 - PRODUCTS

2.1 OPTICAL FIBER CABLE SPECIFICATIONS

A. General Optical Fiber Cable Requirements:
   1. See Division 27 and backbone (riser) diagram(s) on the Drawings for required fiber counts.
   2. Cable shall meet the transformation performance and physical specifications of ANSI/TIA-568 latest standard revision.
   3. Cable jacket marking: Must be legible and shall contain the following information:
      a. Manufacturer’s name and trade mark
      b. Fiber size
      c. Fiber Grade
      d. UL listing (MUST be suitable for the application)
      e. Sequential length markings
   4. Cable jacket color shall be:

a. ORANGE for standard multi-mode fiber optic cable
b. AQUA for laser optimized 50/125 um multi-mode fiber optic cable
c. YELLOW for single-mode fiber optic cables

B. Multi-mode Inter-building/OSP Optical Fiber Backbone Cable Requirements:
1. Optical fiber specifications:
a. Cable jacket must be outside plant only, distribution loose tube and suitable for installation such environments; do not use the indoor/outdoor rated fiber
b. Cable jacket rating must be consistent with manufacturer's requirements to be covered under warranty specified in Section 27 13 00 – "Communications Backbone Cabling".
c. Maximum allowable attenuation (db/km) is 1.0 at 1310nm and 1.0 at 1550nm
d. Low water peak
e. Dispersion shifted fiber optic construction.
f. Manufacturer shall be:
1) Superior Essex, 110123T01 or pre-approved equal
2) 12-strands, 250um jacketed Yellow jacket

C. Multi-mode Intra-building; Optical Fiber Backbone Cable Requirements.
1. Cabling does not leave foot print of interior building wall assemblies
2. Plenum rated Optical fiber specifications:
a. Cable jacket must be plenum rated (OFNP), multi-mode 50/125um laser optimized, OM3 fiber
b. Number of strands as indicated on the drawings
c. With a modal bandwidth of 2000Mhz•km @ 850 nm 500Mhz•km @ 1300 nm for laser optimized 50/125 µm
d. Maximum allowable attenuation (db/km) is 3.5 at 850nm and 1.5 at 1300nm.
e. Manufacturer shall be:
1) Superior Essex, 44012BG01 or pre-approved equal
2) 12-strands, 900 um buffer Aqua jacket
3. Non-plenum riser rated Optical fiber specifications:
a. Cable jacket must be non-plenum, riser rated (OFNR), multi-mode 50/125um laser optimized, OM3 fiber
b. Number of strands as indicated on the drawings
c. With a modal bandwidth of 2000Mhz•km @ 850 nm 500Mhz•km @ 1300 nm for laser optimized 50/125 µm
d. Maximum allowable attenuation (db/km) is 3.5 at 850nm and 1.5 at 1300nm.
e. Manufacturer shall be:
1) Superior Essex, 43012BG01 or pre-approved equal
2) 12-strands, 900 um buffer Aqua jacket

2.2 SPLICES

A. In general, optical fiber cables are not to be spliced except where indicated otherwise in the Drawings and Specifications.

B. Where splicing is indicated in the Drawings and Specifications, multi-mode and single-mode optical fiber cable splicing shall be fusion splicing.

C. Factory pre-terminated optical fiber pig-tails (Contractor's option): Instead of field terminating the optical fiber backbone cables onto appropriate type connectors, the Contractor may choose to splice the optical fiber cables near their termination points in the Telecommunications rooms to connectors that have been factory pre-terminated with optical fiber pig-tails. The following requirements apply to the use of this termination approach:
1. Rack mounted splice tray enclosures shall be by the same manufacturer as the optical fiber connector panels.
2. Trays shall be used to hold all splices.
3. Splice trays shall be stored in a rack mountable splice enclosure that allocates space for fiber trays and storage of excess fiber. Splice Trays are not to be located within the same fiber enclosure where the fiber connectors are mounted unless the enclosure was designed to do so.
4. Optical fiber cables shall be labeled at the splice trays.

D. Maximum allowable loss for splices is 0.3 db.

PART 3 - EXECUTION

3.1 CABLE INSTALLATION

A. General:
1. Place all optical fiber backbone cabling in accordance with these specifications, and as indicated on the cable schedules and the Drawings.
2. Splices between riser rated optical fiber cables and factory connectorized pigtails are permitted, but not required at each fiber termination location indicated on the Drawings. Pre-terminated riser cables meeting the material specifications may be utilized.
3. Comply with all referenced standards and guidelines.

B. Pre-installation testing:
1. Optical fiber cables: Perform visible light continuity check on each fiber before installing the fiber trunk cable in the backbone pathway. If one end is not accessible: perform OTDR test to assure fiber continuity; this test should be performed soon after receiving the product so as to not delay the project should the reel have to be replaced.

C. Optical Fiber Backbone Cables:
1. Place optical fiber between the telecommunications rooms as noted in the cable schedules and the Drawings.
2. Optical fiber cable is to be installed within inner duct at all locations where it is within nominal 4-inch conduit and supported by cable tray.-see Telecommunications drawings for details
3. Support optical fiber riser cables with suitable support grips. After being supported, the optical fiber cables will be routed over to the optical fiber patch panel in that particular Telecommunications room

3.2 OPTICAL FIBER MAIN DISTRIBUTION FRAME

A. Optical fiber cables shall be routed to each of the Telecommunications Rooms via conduits, trays and riser sleeves. See the Drawings.

B. Optical fiber cables shall enter the Fiber Distribution Frame from the top of the frame and then routed to the connector and splice modules/shelves.

C. The Fiber Distribution Frame shall be attached to the structural concrete floor, to the cable ladder above and adjacent racks, frames or cabinets. See Specification Section 27 11 16 – “Communications Cabinets, Racks, Frames and Enclosures”

3.3 ACCEPTANCE

A. Upon receipt of the Contractor’s documentation of cable testing, the General Contractor and/or Engineer will review/observe the installation and randomly request tests of the cables/wires installed.

END OF SECTION 271323

SECTION 282300 - VIDEO SURVEILLANCE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes video surveillance system equipment consisting of
   1. Cameras.
   2. Video Management System.
   3. Video Servers and Storage.
   4. Wiring.

1.3 DEFINITIONS

A. AGC: Automatic gain control.

B. B/W: Black and white.

C. CCD: Charge-coupled device.

D. VMS: Video Management System.

E. LED: Light Emitting Diode

F. MPEG: Moving picture experts group.

G. NTSC: National Television System Committee.

H. UPS: Uninterruptible power supply.

1.4 FUNCTIONAL DESCRIPTION OF SYSTEM

A. Video surveillance system shall consist of Video Management Software (VMS). Video of security events occurring within areas having video surveillance areas shall be “pushed” to VMS client stations for observation by responsible control station.

B. The VMS shall provide video surveillance of persons desiring passage through security barriers, remote monitoring of areas not under continuous staff supervision, and other areas of security concern.

C. Video surveillance system monitors may display full screen video images, or up to 32 camera images on a single screen. Monitor locations are shown on the contract drawings with video content originating from VMS client stations having multiple DVI or HDMI monitor outputs.

D. Video surveillance system shall consist of IP cameras, Powered Over Ethernet (POE), connected to a 1000T based Ethernet security network having multiple network switches.

E. Video Recording will be provided for all cameras.
   1. Capacity for recording of cameras shall be provided to allow a minimum of 21 days of recording at 10 frames per second, using highest camera resolution with mild (10% or less) H.264 compression.
   2. Video recording shall be by rack mounted video servers running video management software.
   3. Servers shall have fault tolerant RAID 1 or better fault tolerant operating system drives.
   4. Video servers shall have an onboard DVD burner for archiving selected video files.
   5. Video storage shall be by direct-attached, hot swappable RAID 6 configured hard drives.
   6. A monitor, keyboard, and KVM switch shall be provided within the Equipment Rack in Tel Rm G121 for direct access and management of each video sever, and storage within the equipment rack. The monitor

and keyboard shall have access to all management features of each sever, as well as the ability to view any of the connected cameras in the facility.

7. Program camera titles and on-screen placement as coordinated with the Owner.
8. Develop and program camera tours or views as coordinated with the Owner. At the Owner's discretion, tours/views may or may not include the use of the quad displays. Adjust sequence and dwell of each tour as requested by the Owner.

1.5 SURGE AND TAMPER PROTECTION

A. Refer to Division 28 Section "General Requirements Electronic Safety and Security".

B. Interference Protection: Component function shall be unaffected by radiated-radio-frequency interference and electrical induction of 15 V/m over a frequency range of 10 to 10,000 MHz, or by conducted interference signals up to 0.25-V RMS injected into power supply lines at 10 to 10,000 MHz.

1.6 SUBMITTALS

A. The following submittals are due at the "Bid" phase submission:
   1. Provide unit prices for the following:
      a. Camera Pricing:
         1) Supply unit pricing for the addition/deletion of each type of camera.

B. The following submittals are due at the "Pre-construction" phase submission:
   1. Product Data: For each type of product indicated, including dimensions and data on features, performance, electrical characteristics, ratings, and finishes.
      a. Network Video Storage: Sizing calculations.
         1) Storage size estimate for each type of camera per location type (hallway, gymnasium, cafeteria, etc.)
         2) Schedule with all cameras listed and total storage required for video management system.
   2. Shop Drawings: Detail assemblies of standard components that are custom assembled for specific application on this Project.
      a. Conduit routing and cable fill data for each conduit run.
      b. Diagrams for cable management system within equipment rooms.
      c. System labeling schedules, including electronic copy of labeling schedules.
      d. Wiring Diagrams.
         1) Functional Block diagram of system component connections identifying cable numbers and types.
         2) Typical wiring schematics.
         3) Power, signal, and control wiring, and grounding.
         4) Point-to-point wiring schedules or diagrams.
      e. Dimensioned plan and elevations of equipment racks, control panels, and consoles. Show access and workspace requirements.
      f. Camera title sheets for coordination of camera titles with Owner.
      g. Camera tour sheets for Owner coordination pre-populate with tours identified by these specifications with adequate space for required additional Owner designated tours. Note that Owner retains the right to differ tour assignment selections until after substantial completion, but before final completion.
   3. Equipment List: Include every piece of equipment by model number, manufacturer, serial number, location, and date of original installation. Add pretesting record of each piece of equipment, listing name of person testing, date of test, set points of adjustments, name and description of the view of preset positions, description of alarms, and description of unit output responses to an alarm.
   4. Field quality-control test reports.
   5. Operation and Maintenance Data: For cameras, power supplies, monitors, digital video recorders, video switches, and control-station components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data" include the following:
      a. Lists of spare parts and replacement components recommended to be stored at the site for ready access.
   6. Warranty: Special warranty specified in this Section.

1.7 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with NECA 1.

C. Comply with NFPA 70.

1.8 PROJECT CONDITIONS

A. Environmental Conditions: Capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
   1. Central Equipment: Rated for continuous operation in ambient temperatures of 60 to 85 deg F (16 to 29 deg C) and a relative humidity of 20 to 80 percent, noncondensing.
   2. Interior, Controlled Environment: System components, except central equipment, installed in air-conditioned interior environments shall be rated for continuous operation in ambient temperatures of 36 to 122 deg F (2 to 50 deg C) dry bulb and 20 to 90 percent relative humidity, noncondensing. NEMA 250, Type 1 enclosures.
   3. Exterior Environment: System components installed in locations exposed to weather shall be rated for continuous operation in ambient temperatures of minus 30 to plus 122 deg F (minus 34 to plus 50 deg C) dry bulb and 20 to 90 percent relative humidity, condensing.
   4. Security Environment: Camera housings for use in high-risk areas where surveillance equipment may be subject to physical violence.

1.9 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of cameras, equipment related to camera operation, and control-station equipment that fail in materials or workmanship within specified warranty period.
   1. Warranty Period: Two year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 IP CAMERAS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Axis.
   2. Sony.
   3. Pre-approved equal.

B. Refer to Contract Drawing’s camera legend for performance specifics and allowable models meeting performance requirements.

2.3 LENSES

A. Description: Optical-quality coated optics, designed specifically for video surveillance applications, and matched to specified camera. Provide color-corrected lenses with color cameras.
   1. Auto-Iris Lens: Electrically controlled iris with circuit set to maintain a constant video level in varying lighting conditions.
   2. Fixed Lenses: Auto remote focus.
   3. Zoom Lenses: Motorized, remote-controlled units, rated as "quiet operating." Features include the following:
      a. Electrical Leads: Filtered to minimize video signal interference.
      b. Motor Speed: Variable.
      c. Lens shall be available with preset positioning capability to recall the position of specific scenes.

2.4 POWER SUPPLIES

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

3. Pelco.
4. Pre-approved equal.

B. Power Supplies: Low-voltage power supplies matched for voltage and current requirements of cameras and accessories, type as recommended by camera manufacturer.
1. Power supplies shall be UL and CSA certified, and NEC compliant for Class 2 circuits.
2. Provide fused outputs for each camera for 24VAC service.
3. No more than one camera supplied per output termination where POE is insufficient.
4. Provide power limiting.
5. Do not exceed 80VA per power supply.
6. Enclosure: Type 1.

2.5 CAMERA SUPPORTING EQUIPMENT

A. Minimum Load Rating: Rated for load in excess of the total weight supported times a minimum safety factor of two.

B. Mounting Brackets for Fixed Cameras: Type matched to items supported and mounting conditions. Include manual pan and-tilt adjustment.

C. Secure mounting equipment with expansion anchors rated for the load, independent of other anchors.

2.6 VIDEO MANAGEMENT SYSTEM

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. ExacqVision.
2. Pre-approved equal.

B. The video management system (VMS) shall be an enterprise-class client/server based IP video security solution that provides seamless management of digital video, audio and data across an IP network. The video management system shall work with CCTV products as part of a total video security management system to provide full virtual matrix switching and control capability. Cameras, recorders, and viewing stations may be placed anywhere in the CCTV system IP network.

C. The system's server components shall run on Windows 7 Pro or Windows 2008 Server.

D. The system's clients shall run on Windows XP Pro, Windows 7 or Windows 8 Pro and Apple/ Intel based Macintosh with OS X package.

E. The VMS shall not charge for the number of concurrent clients.

F. The VMS software shall provide at no additional charge a purpose built mobile application capable of viewing multiple simultaneous live video streams and playing a recorded video stream. Application shall be provided for both iOS and Android operating systems (including Kindle Fire).

G. Provide a web client interface
a. Internet Explorer 6.0 or Later
b. Safari
c. Firefox
d. Opera
e. Chrome

H. Support for all standard and high definition H.264 and MPEG-4 Encoders, decoders, IP Cameras, IP PTZs.

I. The VMS shall not require the manufacturer to be contacted when a camera fails.

J. The VMS shall allow the use of maps. The maps will be accessible to users with the appropriate permission levels and display video sources and their status.

K. The VMS shall not require a database when recording video.

L. Recording Time: 21 days at full resolution.

M. Frame Rate: 10 frames per second.

N. Provide at least 10 different and independent programmable recording schedules. The schedules may be programmed to provide different record frame rates for day, night, and weekend periods as well as special days. Advanced task schedules may also be programmed that could specify allowed logon times for user groups, when events may trigger alarms, and when data backups should occur.

O. VMS and workstation software must have the ability to digitally zoom on live video and playback video. The encrypted video player must also have the ability to digitally zoom on video.

P. Allow the establishment of user groups that have access rights to specific cameras, rights for exporting video, and access rights to system event log files. Access to live, playback, auxiliary commands shall be programmable on an individual camera basis.

Q. Auto discover all cameras and IP video devices.

2.7 VIDEO SERVERS

A. Network Video Servers
   1. Provided by owner.

B. System Health Monitoring
   1. Client-server monitoring system required for the video surveillance deployment.
      a. Connection loss on any IP camera
      b. Hard drive failure
      c. System temperature alerts
      d. Loss of server connection
   2. Central monitoring of the status of all servers is needed.

C. Client stations shall be connected to the ESN for remote viewing of camera video, both real-time and recorded. Software client must be capable of running natively on Windows XP Pro, Windows 7 or Windows 8 Pro and Apple/Intel based Macintosh with OS X package.

PART 3 - EXECUTION

3.1 WIRING

A. Comply with requirements in Division 28 Section "General Requirements for Electronic Safety and Security" for conduit requirements.

B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.

C. Splices, Taps, and Terminations: For power and control wiring, use numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

D. Grounding: Provide independent-signal circuit grounding recommended in writing by manufacturer.

3.2 VIDEO SURVEILLANCE SYSTEM INSTALLATION

A. Set pan unit and pan-and-tilt unit stops to suit final camera position and to obtain the field of view required for camera. Connect all controls and alarms, and adjust.

B. Install power supplies and other auxiliary components at control stations, unless otherwise indicated.

C. Install tamper switches on components indicated to receive tamper switches, arranged to detect unauthorized entry into system component enclosures, and mounted in self-protected, inconspicuous positions.

D. Identify system components, wiring, cabling, and terminals according to Division 26 Section "Identification of Electrical Systems."

E. Perfect all fixed camera views with respect to aiming, field of view, and focus at the Owner's direction.

3.3 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation and supervise pretesting, testing, and adjusting of video surveillance equipment.

B. Inspection: Verify that units and controls are properly installed, connected, and labeled, and that interconnecting wires and terminals are identified.

C. Pretesting: Align and adjust system and pretest components, wiring, and functions to verify that they comply with specified requirements. Conduct tests at varying lighting levels, including day and night scenes as applicable. Prepare video surveillance equipment for acceptance and operational testing as follows:
1. Prepare equipment list described in Part 1 "Submittals" Article.
2. Verify operation of auto-iris lenses.
3. Set back-focus of fixed focal length lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Adjust until image is in focus with and without the filter.
4. Set back-focus of zoom lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Additionally, set zoom to full wide angle and aim camera at an object 50 to 75 feet (17 to 23 m) away. Adjust until image is in focus from full wide angle to full telephoto, with the filter in place.
5. Set and name all preset positions; consult Owner's personnel.
6. Set sensitivity of motion detection.
7. Connect and verify responses to alarms.
8. Verify operation of control-station equipment.

D. Test Schedule: Schedule tests after pretesting has been successfully completed and system has been in normal functional operation for at least 14 days. Provide a minimum of 10 days' notice of test schedule.

E. Operational Tests: Perform operational system tests to verify that system complies with Specifications. Include all modes of system operation. Test equipment for proper operation in all functional modes.

F. Remove and replace malfunctioning items and retest as specified above.

G. Record test results for each piece of equipment.

H. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.

3.4 ADJUSTING

A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions and to optimize performance of the installed equipment. Tasks shall include, but are not limited to, the following:
1. Check cable connections.
2. Check proper operation of cameras and lenses. Verify operation of auto-iris lenses and adjust back-focus as needed.
3. Adjust all preset positions; consult Owner's personnel.
4. Recommend changes to cameras, lenses, and associated equipment to improve Owner' utilization of video surveillance system.
5. Provide a written report of adjustments and recommendations.

3.5 CLEANING

A. Clean installed items using methods and materials recommended in writing by manufacturer.

B. Clean video surveillance system components, including camera-housing windows, lenses, and monitor screens.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain video surveillance equipment.
   1. Train Owner's maintenance personnel on procedures and schedules for troubleshooting, servicing, and maintaining equipment.
   2. Demonstrate methods of determining optimum alignment and adjustment of components and settings for system controls.
   3. Review equipment list and data in maintenance manuals. Refer to Division 01 Section "Operation and Maintenance Data."
   4. Conduct a minimum of four hours' training as specified in instructions to Owner's employees in Division 01 Section "Demonstration and Training."

3.7 SUPPORT AND MAINTANENCE

A. Response Time
   1. Emergency Service – maximum of 8 hour service response required if the following should happen:
      a. Server Failure
      b. Multi-camera outage
   2. Standard Service – maximum of 24 hour response required for any other malfunction in the system.

END OF SECTION 282300

ABBREVIATIONS

A
AB	anchor bolt
ACOUST	acoustical
AD	area drain
ADJ	adjustable/adjacent
ADH	adhesive
AFF	above finish floor
ALUM	aluminum
ALT	alternate
APPROX	approximate(ly)
APPD	approved
ATTEN	attenuation

B
BEY	beyond
BD	board
BLDG	building
BLK	block
BLKG	blocking
BM	bench mark
BO	by others
BOT	bottom (of)
BRG	bearing
BRKT	bracket
BSD	bar soap dish
BSMT	basement
BTWN	between
BUR	built-up-roof

C
CABT	cabinet
CB	chalkboard
CC	center to center
CEM	cement(itious)
CFM	cubic feet per minute
CH	coat hook
CI	cast iron
CJ	control joint
CLG	ceiling
CLR	clear
CMP	corrugate metal pipe
CMU	concrete masonry unit
CO	cleanout
COL	column
COMB	combination
CONC	concrete
CONN	connect(ion)
CONT	continuous
CONTR	construction
CORR	corridor
CLRM	classromm
CSK	countersunk
CT	ceramic tile
CTG	coating
CTR	center
CY	cubic yard(s)

D
D	drinking fountain
DIA	diameter
DIAG	diagonal
DIM	dimension(s)
DN	down
DR	door
DS	downspout
DWG	drawing

E
E	east
EA	each
EDF	electric drinking fountain
EF	each face
EJ	expansion joint
EHD	electric hand dryer
ELEC	electric(al)
ELEV	elevation (view or datum)
EQ	equal or =
EQUIP	equipment
EW	each way
EWC	electric water cooler
EXH	exhaust
EXIST	existing
EXP	expansion
EXT	exterior

F
FA	fire alarm
FD	floor drain
FND	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FF	finish floor
FH	fire hose
FIN	finish
FIXT	fixture
FLR	floor
FLASH	flashing
FLEX	flexible
FMI	full height mirror
FOM	face of masonry
FOPC	face of precast
FOS	face of stud
FT (or')	foot
FTG	footing

G
GA	gauge
GB	grab bar
GALV	galvanized
GC	general contractor
GEN	general
GFRC	glass fiber reinforced concrete
GL	glass
GLZ TILE	glazed tile
GPM	gallons per minute
GR	grade
GYP	gypsum
GYP BD	gypsum board

H
HB	hose bibb
HC	handicap(ped)
HED	handicap electric drinking fountain
HEHD	handicap electric hand dryer
HD	head (or hair dryer)
HDBD	headboard
HDF	handicap drinking fountain
HDNR	hardener
HDWD	hardwood
HDWR	hardware
HEWC	handicap electric water cooler
HHD	handicap hair dryer
HLAV	handicap lavatory
HM	hollow metal
HMI	handicap mirror
HSD	handicap soap dispenser
HSH	handicap shower head
HWC	handicap wall mtd wall closet
HORIZ	horizontal
HSS	folding shower seat
HR	hour
HT	height
HTG	heating
HTR	heater
HU	handicap urinal
HYD	hydrant

I
IC	intercom
ID	inside diameter
IN (or")	inch(es)
INDIV	individual
INSUL	insulation
INT	interior
INV	invert

J
JST	joist
JT	joint

K
KIT	kitchen

L
LAM	laminate
LAV	lavatory
LGTH	length
LKR	locker
LT	light

M
MAS	masonry
MAS BLK	masonry block
MATL	material
MAX	maximum
MB	markerboard
MBH	mop & broom holder
MC	structural shape misc channel
MECH	mechanical
MEP	mechanical/electrical/plumbing
MFR	manufacturer
MH	manhole
MI	mirror
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTG HT	mounting height
MTL	metal
MULL	mullion

N
N	north
NIC	not in contract
NO (or #)	number
NOM	nominal
NTS	not to scale

O
OA	overall
OC	on center
OD	outside diameter
OFF	office
OPNG	opening
OPP	opposite

P
P	page
PA	public address
PAR	parallel
PARTN	partition
PCP	portland cement plaster
PERP	perpendicular
PLAM	plastic laminate
PL	property line
PLAS	plaster
PLBG	plumbing
PLYWD	plywood
PNL	panel
PNLG	paneling
PR	pair
PRD GYP	poured gypsum
PREFAB	prefabricated
PS	purse shelf
PT	paint
PTD	painted
PTD/R	paper towel disp/recp

R
R	radius (or riser)
RA	return air
RCP	reinforced concrete pipe
RD	roof drain (or road)
RECP	receptacle
REF	refrigerator
REINF	reinforcing (or reinforced)
REV	reversed
REQD	required
RFG	roofing
RM	room

S
S	south
SC	shower curtain
SCHED	schedule
SCR	shower curtain track
SD	soap dispenser
SECT	section
SH	shower head
SHT	sheet
SHWR	shower
SIM	similar
SMLS	seamless
SND	sanitary napkin dispenser
SNR	sanitary napkin receptor
SP CTG	special coating
SPEC	specification
SPKR	speaker
SQ	square
SS	stainless steel
STD	standard
STL	steel
STO	storage
STRUCT	structure (al)
SUSP	suspend(ed)
SY	square yard
SYM	symmetrical

T
T	tread
T&B	top & bottom
T&G	tongue & groove
TB	tackboard
TEL	telephone
TERM	terminate
TERR	terrazzo (or terrace)
TH	towel hook
TOC	top of curb
TOM	top of masonry
TOS	top of steel
TOW	top of wall
TP	towel pin
TPD	toilet paper dispenser
TRANS	transformer
TS	tube steel (or towel strip)
TYP	typical

U
U	urinal
UNO	unless noted otherwise
US	utility shelf

V
VENT	ventilate/ventilator/ventilation
VERT	vertical
VTR	vent thru roof
VCT	vinyl composition tile

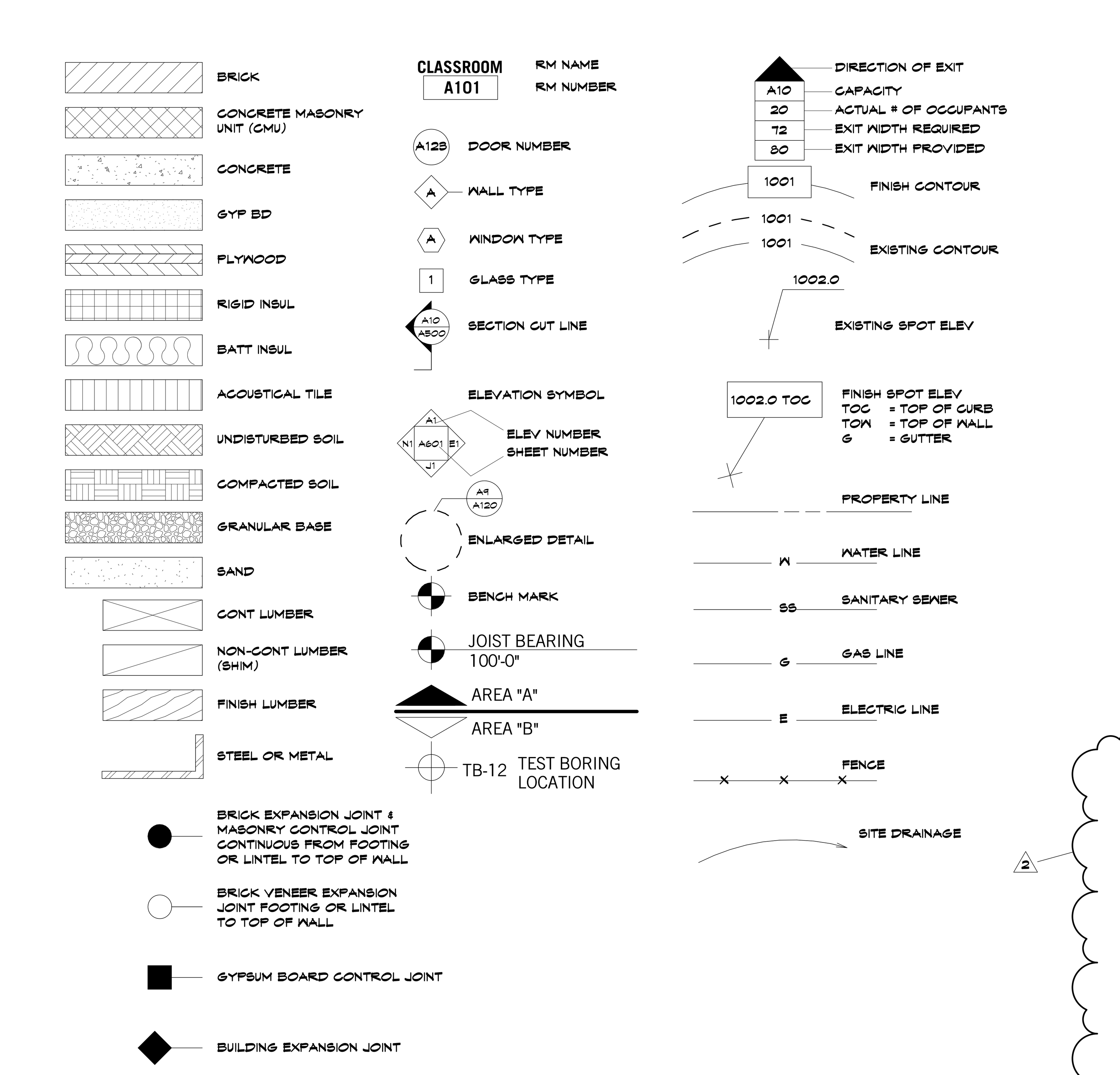
W
W	west
WC	water closet
WD	wood
WDO	window
WF	wide flange
WH	wall hydrant
WT	structural T section
WWF	welded wire fabric
W/	with
W/O	without

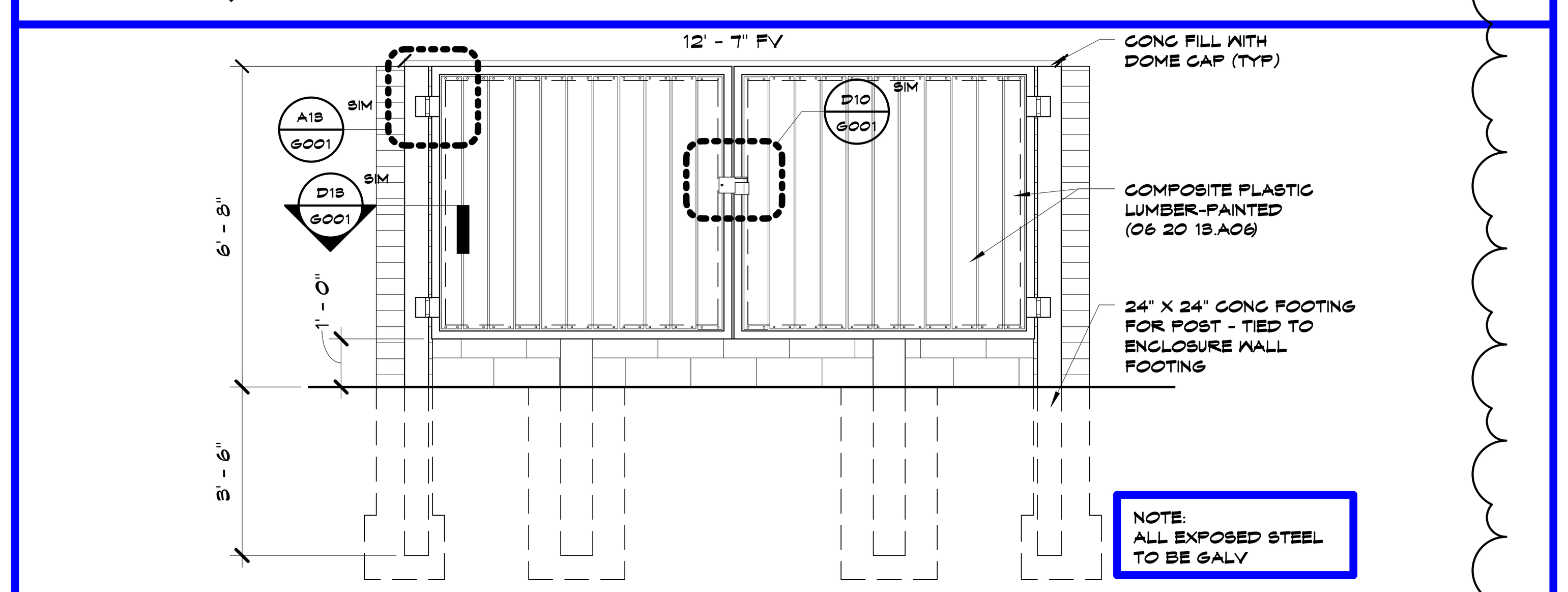
X
X	by (as 6'x8')

Y
YD	yard

SYMBOLS
/	per (or by)
&	and
@	at
[	channel
	centerline
Φ	diameter/round
±	plus/minu

SYMBOL LEGEND

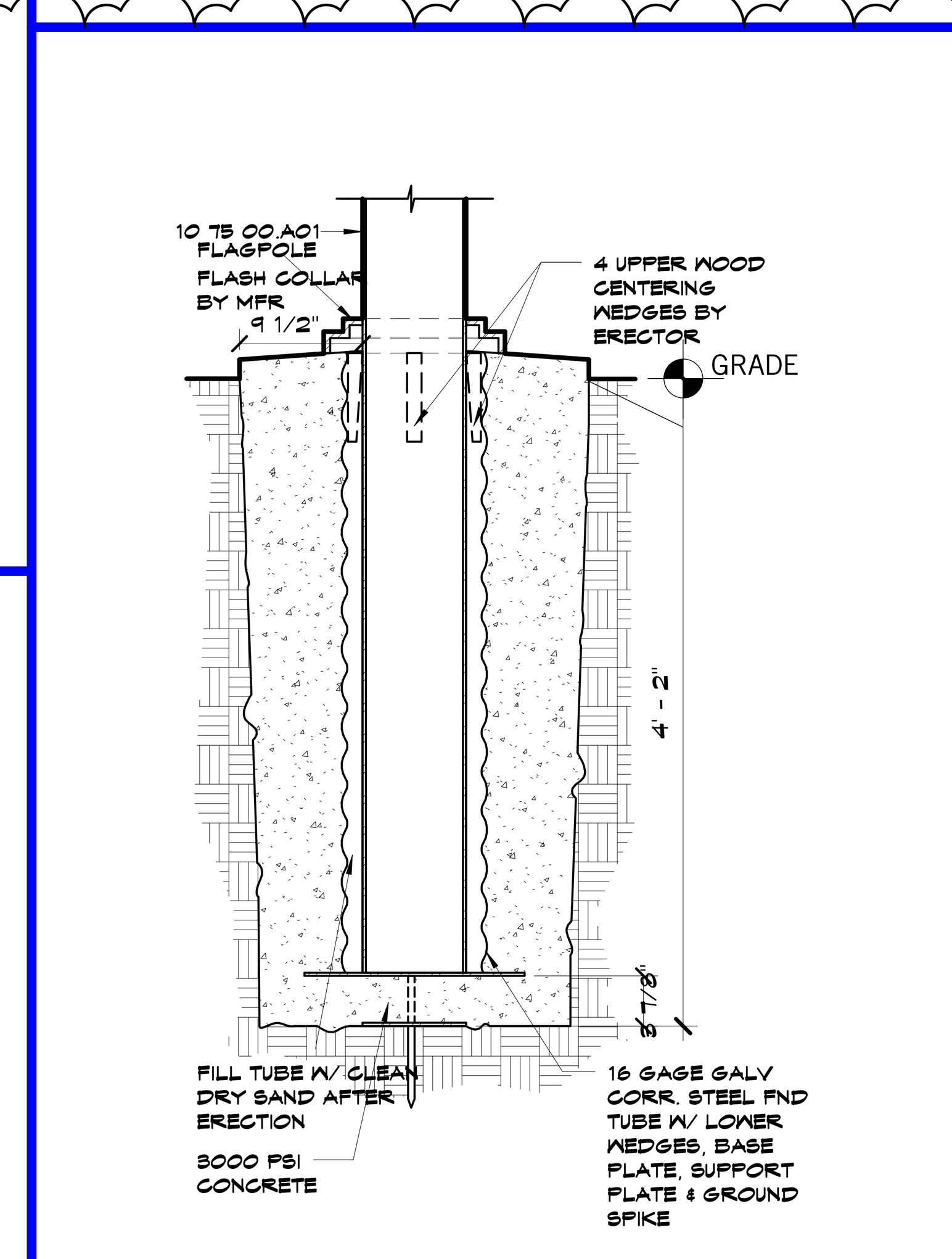




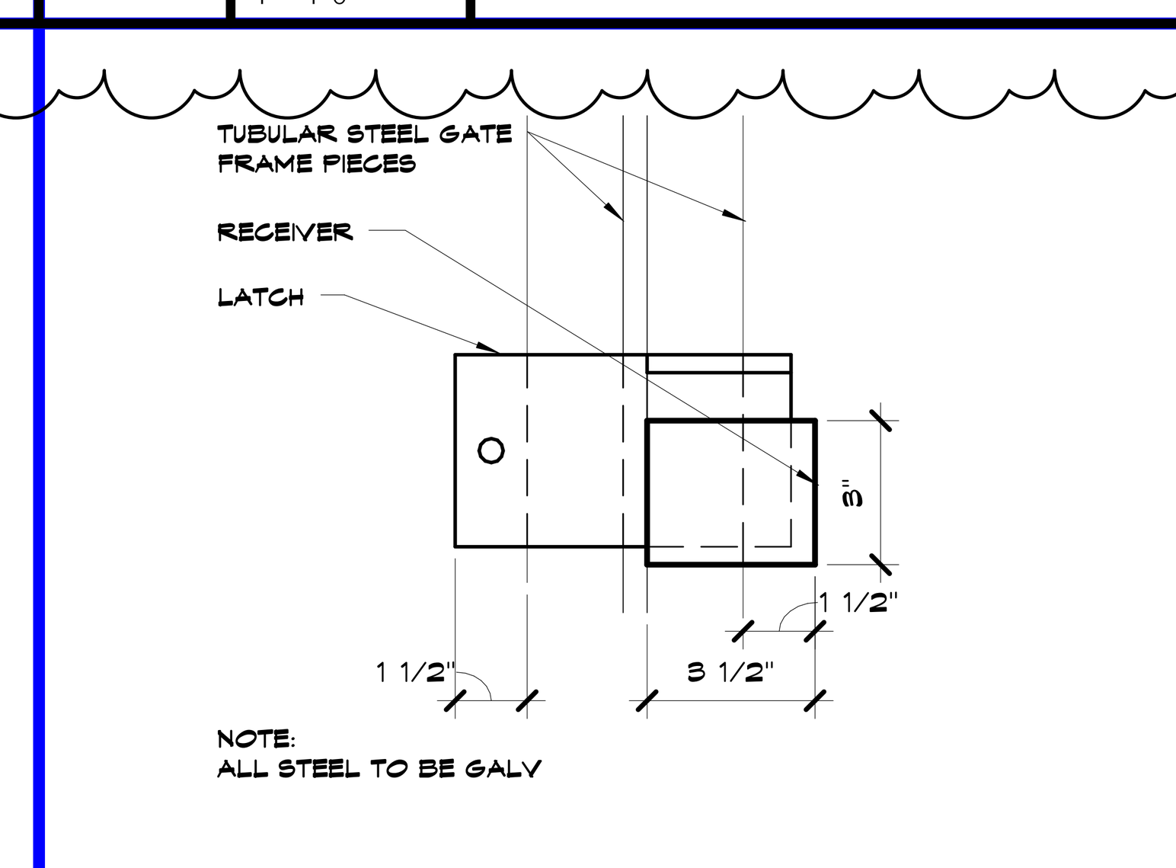
G4 | Scale 3/8" = 1'-0" | Trash Enclosure - Elevation

MASTER KEYNOTE LEGEND

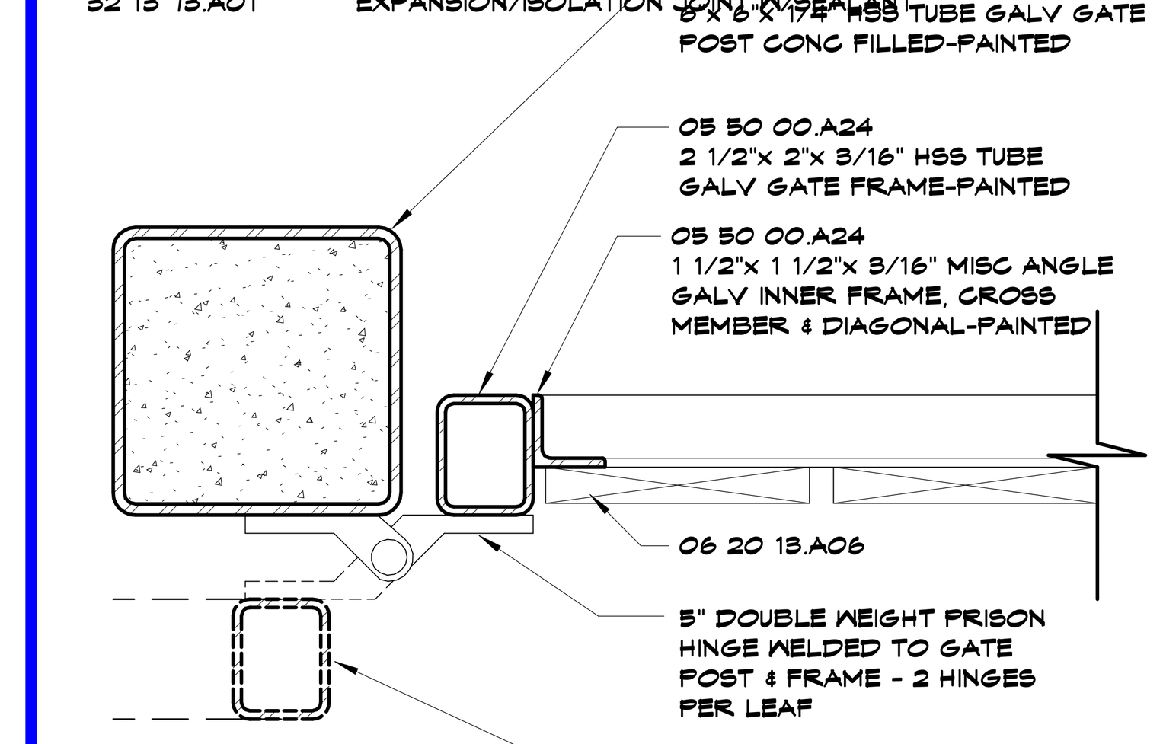
03 30 00.A01	CAST-IN-PLACE CONCRETE
03 30 00.A06	REINFORCING BARS
03 30 00.A14	VAPOR RETARDERS
03 30 00.A15	GRANULAR DRAINAGE FILL
03 30 00.A22	EXPANSION/ISOLATION JOINT
04 20 00.A01	CONCRETE MASONRY UNITS
04 20 00.A10	MASONRY LINTELS (SITE CAST)
04 20 00.A11	MASONRY BOND BEAM
04 20 00.A12	FACE BRICK
04 20 00.A22	GROUT
04 20 00.A24	MASONRY JOINT REINFORCEMENT
04 20 00.A26	ADJUSTABLE MASONRY VENEER ANCHORS
04 20 00.A31	METAL DRIP EDGES
04 20 00.A32	EMBEDDED FLEXIBLE FLASHING
04 20 00.A34	FLASHING TERMINATION BARS
04 20 00.A35	COMPRESSIBLE FILLERS
04 20 00.A39	WEEP HOLE/VENT
04 20 00.A40	CAVITY DRAINAGE MATERIAL
04 20 00.A45	CAVITY WALL INSULATION
05 12 00.A02	W SHAPE
05 12 00.A03	CHANNEL
05 12 00.A04	ANGLE
05 12 00.A05	PLATE
05 12 00.A06	COLD-FORMED HSS
05 21 00.A01	STEEL JOIST
05 31 00.A01	ROOF DECK
05 40 00.A01	COLD-FORMED METAL FRAMING
05 40 00.A07	MISCELLANEOUS FRAMING/FURRING
05 40 00.A08	ISOLATION STRIP MEMBRANE
05 50 00.A01	MISC STEEL FRAMING/SUPPORTS
05 50 00.A22	LOOSE STEEL LINTEL
05 50 00.A24	TRASH ENCLOSURE/GATE FRAMING
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A03	PLYWOOD WALL SHEATHING
06 16 00.A04	GLASS-MAT GYPSUM WALL SHEATHING
06 16 00.A05	CEMENTITIOUS WALL SHEATHING
06 16 00.A06	ROOF SHEATHING
06 20 13	EXTERIOR FINISH CARPENTRY
06 20 13.A02	WOOD TRIM - OPAQUE
06 20 13.A04	POLYASH SYTHETIC TRIM
06 20 13.A06	COMPOSITE WOOD
06 20 23.A01	TRIM - TRANSPARENT
06 20 23.A02	TRIM - OPAQUE
06 20 23.A11	SHELVING
06 40 23	INTERIOR ARCHITECTURAL WOODWORK
06 40 23.A01	ORNAMENTAL TRIM - TRANSPARENT
06 40 23.A02	ORNAMENTAL TRIM - OPAQUE
06 40 23.A07	VENEERED PANELS
06 40 23.A13	ORNAMENTAL WOODWORK
06 40 23.A16	PLASTIC LAMINATE CABINETS - CUSTOM
06 40 23.A18	PLASTIC LAMINATE COUNTERTOPS - CUSTOM
06 40 23.A19	SOLID SURFACE COUNTERTOPS
06 40 23.A20	SOLID SURFACE SILLS
06 40 23.A22	GROMMETS
06 42 00.A01	BOARD PANELING
06 42 00.A03	PLASTIC LAMINATE CLAD PANELING
07 11 13.A01	DAMPPROOFING
07 21 00.A01	EXTRUDED POLYSTYRENE BOARD INSULATION
07 21 00.A04	POLYISOCYANURATE INSULATION
07 21 00.A08	UNFACED GLASS FIBER BLANKET INSULATION
07 24 13.A01	EXTERIOR INSULATION AND FINISH SYSTEM
07 24 19.A01	DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 27 29.A01	VAPOR RETARDING AIR BARRIER COATING
07 27 63.A02	TRANSITION MEMBRANE
07 27 63.A03	STOP ANGLE
07 41 13.A01	METAL ROOF PANELS
07 41 13.A03	UNDERLAYMENT
07 41 13.A05	FLASHING
07 42 13.A03	CONCEALED FASTENER METAL WALL PANELS
07 42 13.A06	METAL SUBFRAMING
07 42 13.A07	FLASHING AND TRIM
07 42 13.A09	RAINSCREEN FURRING SYSTEM
07 54 23.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 54 23.A03	ROOF INSULATION
07 54 23.A04	TAPERED ROOF INSULATION
07 54 23.A05	SHEET FLASHING
07 54 23.A09	SUBSTRATE BOARD
07 54 23.A11	COVERBOARD
07 54 23.A12	WALKWAYS
07 62 00.A01	UNDERLAYMENT
07 62 00.A04	FLEXIBLE MEMBRANE CLOSURE
07 62 00.A05	HANGING GUTTERS
07 62 00.A07	DOWNSPOUTS
07 62 00.A08	SCUPPERS
07 62 00.A09	CONDUCTOR HEADS
07 62 00.A11	GRAVEL STOP
07 62 00.A12	FASCIA CAP
07 62 00.A13	COPING
07 62 00.A14	ROOF TO ROOF EXPANSION JOINT COVER
07 62 00.A18	COUNTER FLASHING
07 62 00.A27	DRIP EDGES
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
07 95 00.A06	WALL-TO-WALL JOINT SYSTEM
08 11 13.A03	HOLLOW METAL FRAME
08 41 13.A01	STOREFRONT FRAMING (THERMAL BROKEN)
08 41 13.A02	STOREFRONT FRAMING (NON-THERMAL BROKEN)
08 41 13.A07	ALUMINUM SUBSILL
08 41 13.A11	JAMB CLOSURE MEMBRANE
08 44 13.A01	ALUMINUM CURTAIN WALL
08 44 13.A08	JAMB CLOSURE MEMBRANE
08 62 00.A01	UNIT SKYLIGHTS
09 21 16.A01	NON-STRUCTURAL FRAMING
09 21 17.A03	SOUND ATTENUATION BLANKETS
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A11	GYPSUM BOARD TRIM
09 30 00.A04	METAL EDGE STRIPS
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 51 13.A02	CEILING SUSPENSION SYSTEM
09 51 13.A03	EDGE MOLDINGS AND TRIM
09 51 13.A04	DECORATIVE EDGE TRIM
09 65 13.A01	RESILIENT BASE
09 72 00.A01	WALL COVERING
09 72 53.A01	DIGITAL WALL COVERING
09 77 23.A01	FABRIC-WRAPPED PANELS
09 91 23.A01	PAINT - FLAT
10 11 00.A02	MARKERBOARDS
10 14 00.A03	PANEL SIGNS
10 14 00.A11	INTERIOR VINYL GRAPHICS (SMOOTH SUBSTRATE)
10 14 00.A13	INTERIOR VINYL GRAPHICS (GLASS SUBSTRATE)
10 21 13.A01	TOILET COMPARTMENTS
10 21 23.A01	CUBICLE CURTAIN
10 75 00.A01	FLAGPOLES
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)
12 32 00.A01	PLASTIC LAMINATE FACED CABINETS
12 32 00.A03	PLASTIC LAMINATE COUNTERTOPS
12 32 00.A09	TALL CABINET WITH ADJUSTABLE SHELVES
12 32 00.A18	GROMMETS
12 32 00.A20	PRE-MANUFACTURED MAIL SLOTS
32 13 73.A01	EXPANSION/ISOLATION JOINT W/SEALANT



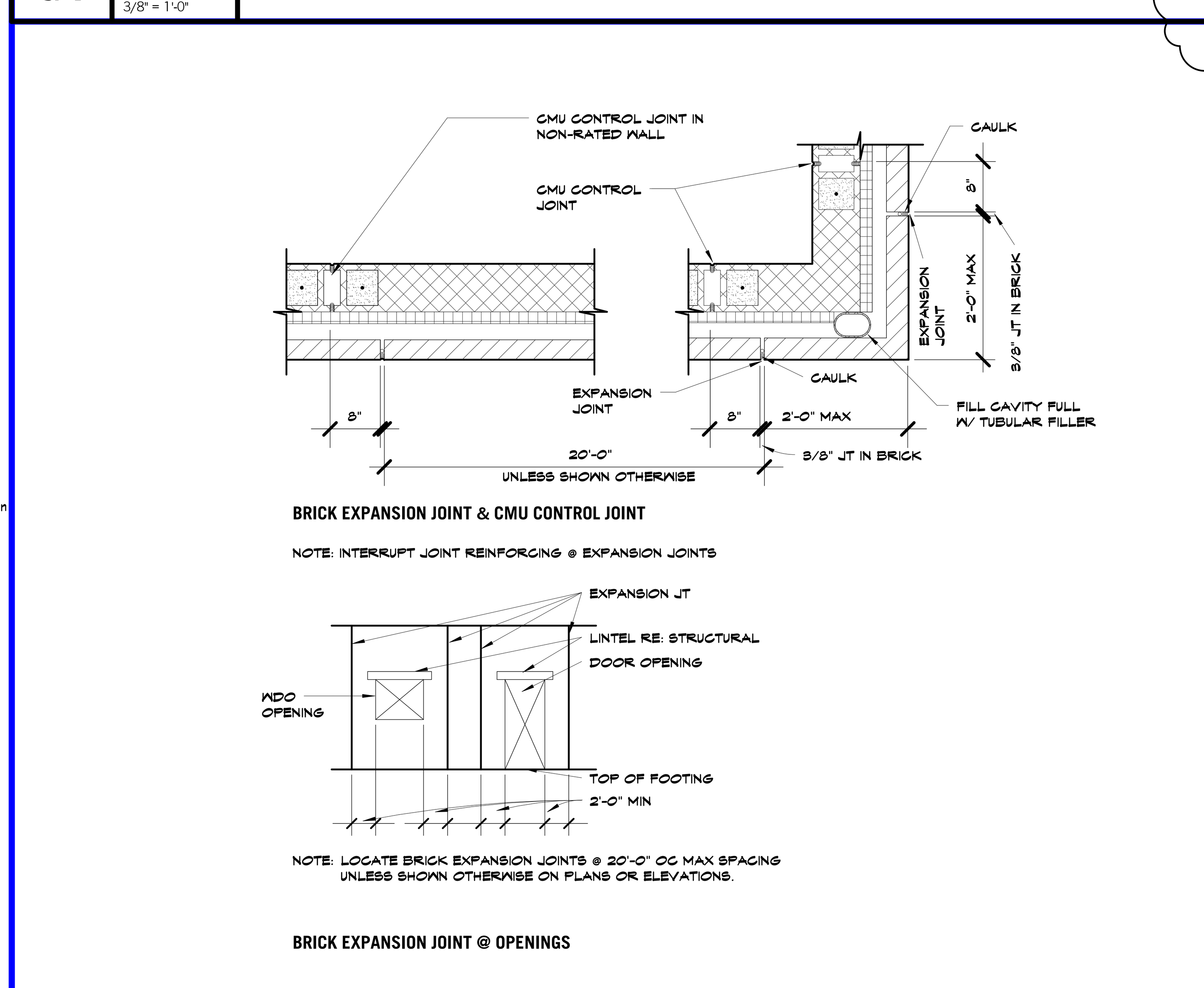
G10 | Scale 1" = 1'-0" | Flagpole Base



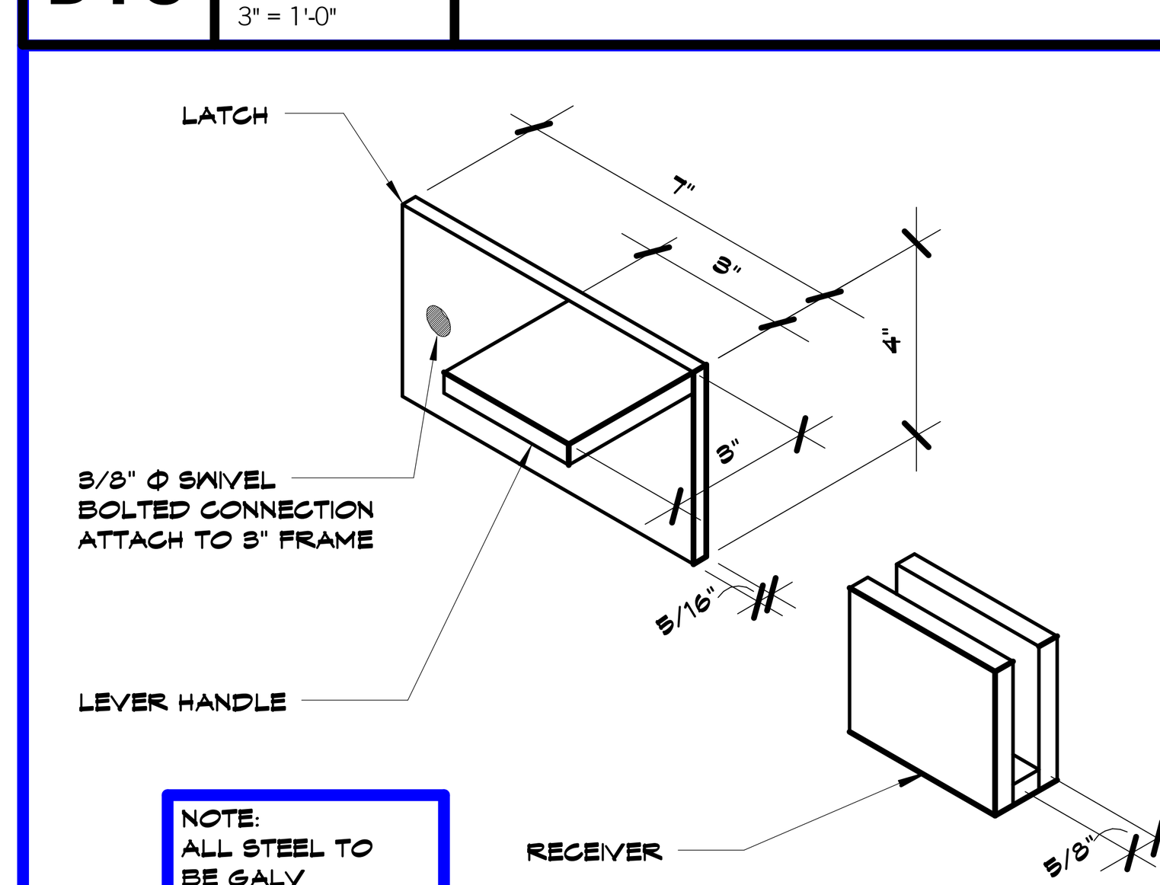
D10 | Scale 3" = 1'-0" | Gate Latch Mechanism



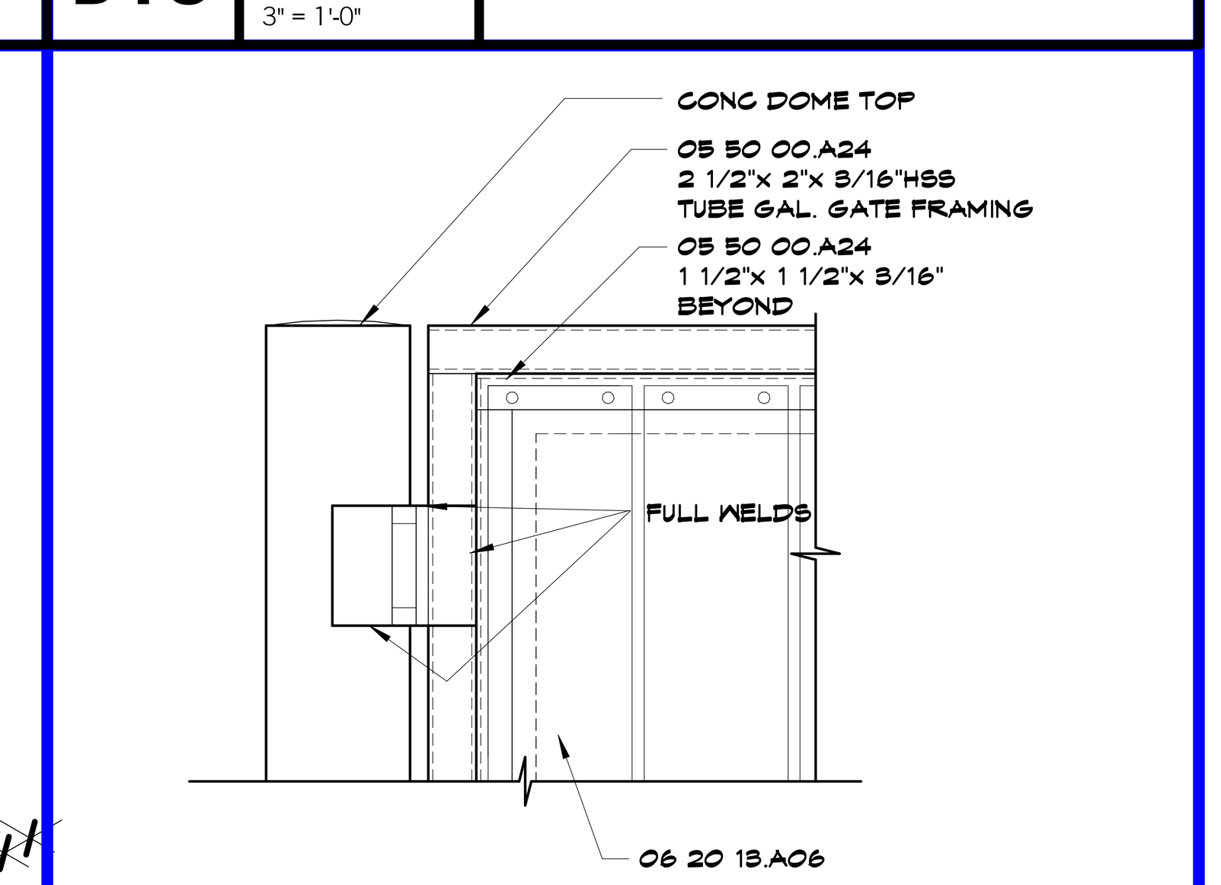
D13 | Scale 3" = 1'-0" | Trash Enclosure - Hinge Detail



A4 | Scale 1:1 | Control Joint Legend CMU with Brick



A10 | Scale 3" = 1'-0" | Trash Enclosure - Isometric of Latch Mechanism



A13 | Scale 1 1/2" = 1'-0" | Trash Enclosure - Gate Hinge Elevation

GENERAL ARCH. NOTES

1. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. IN THE EVENT OF DISCREPANCY, NOTIFY ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING.
2. NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF WORK. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT.
3. ALL SLEEVES, OPENINGS ETC FOR CONDUIT, PIPES, DUCTS ETC (OUTSIDE OF RATED CHASES) THROUGH FLOOR SLABS AND RATED PARTITIONS ARE TO BE FIRE SEALED IN ACCORDANCE WITH FIRE RATED ASSEMBLY DESIGNS, APPLICABLE CODES AND FIRE MARSHALS REQUIREMENTS
4. PROVIDE A MINIMUM OF 3/4" FIRE RETARDANT TREATED WOOD BLOCKING OR 18GA MINIMUM STEEL PLATE BLOCKING AS REQUIRED WITHIN STEEL STUD FRAMED PARTITIONS FOR SECURE AND PROPER ATTACHMENT OF NEW WORK, INCLUDING BUT NOT LIMITED TO A/V EQUIPMENT, MILLWORK, VISUAL DISPLAY SURFACES, SIGNAGE, AND FURNISHINGS WHERE INDICATED ON PLANS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, ELEVATIONS AND DETAIL SHOWN ON THE DRAWINGS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. INDICATED CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY. IT IS EXPRESSLY UNDERSTOOD THAT THE OWNER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN BY THE CONTRACTOR.
6. ON FLOOR PLANS ALL DIMENSIONS ARE TO FACE OF STUD OR BLOCK UNLESS OTHERWISE NOTED. (2)

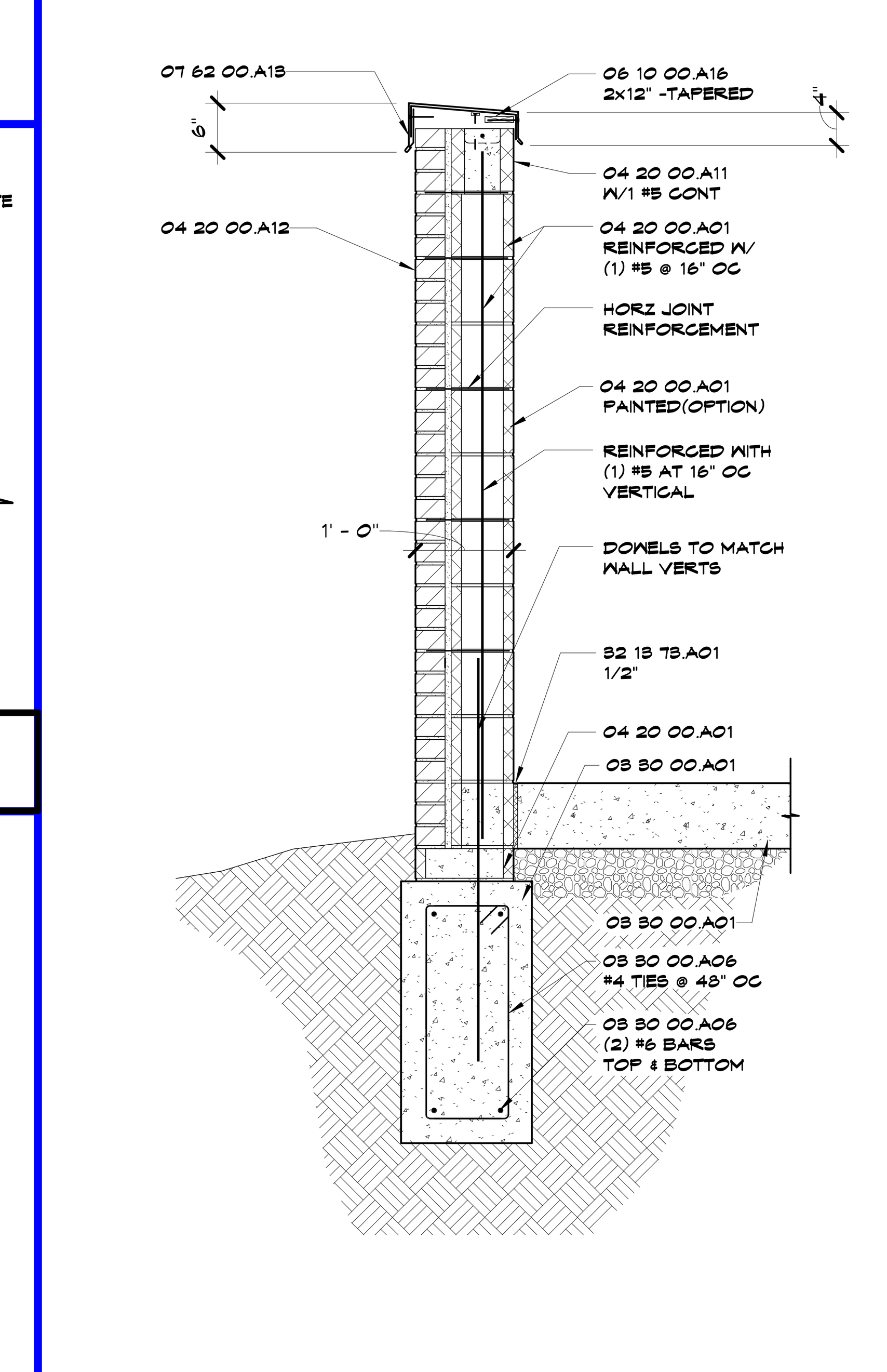
ALTERNATES

ALTERNATES - ADDITIONS

1. ADD EXTERIOR DOORS AT CLASSROOMS AND ALL ASSOICATED PAVING - SEE CIVIL, LANDSCAPE AND ARCHITECTURAL ALTERNATE SHEETS AND THE DOOR SCHEDULE.
2. ADD THREE CLASSROOMS AND ALL ASSOCIATED SUPPORT ROOMS - SEE CIVIL, LANDSCAPE, ARCHITECTURAL AND STRUCTURAL ALTERNATE SHEETS AND THE DOOR SCHEDULE.
3. ADD FLOOR DRAINS AT ALL SINGLE TOILET ROOMS - SEE PLUMBING DRAWINGS.
4. EXPAND PARKING LOT - SEE CIVIL SHEETS.
5. PROVIDE MOD BIT ROOF IN LIEU OF TPO. PROVIDE ALL NECESSARY BLOCKING, CANT STRIPS ETC. TO ALLOW THE MOD BIT SYSTEM TO COMPLY WITH BASE BID WALL HEIGHTS AND ROOFING TRANSITIONS - SEE SPECIFICATIONS.
6. PROVIDE ADDITIONAL LANDSCAPING FEATURES - SEE LANDSCAPE DRAWINGS.
7. PROVIDE ENHANCED RETAINING WALL IN LIEU OF BASE BID. SEE CIVL ALTERNATE SHEETS AND NOTES FOR PARAMETERS.

ALTERNATES - DEDUCTION

A. REPLACE CLEARSTORY IN AREA B WITH SKYLIGHTS - SEE ALTERNATE SHEETS AND SPECIFICATIONS.



A16 | Scale 3/4" = 1'-0" | Trash Enclosure - Wall Section

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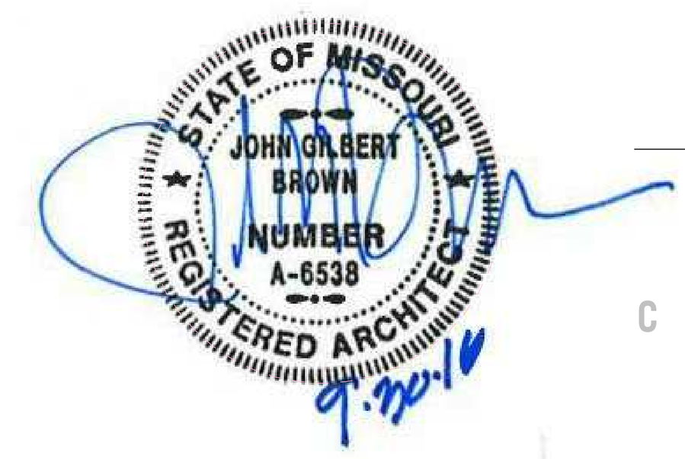
100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.25.2016



JOB NO: 16054
DRAWN BY: RW
CHECKED BY: NY
DATE: 09.30.2016

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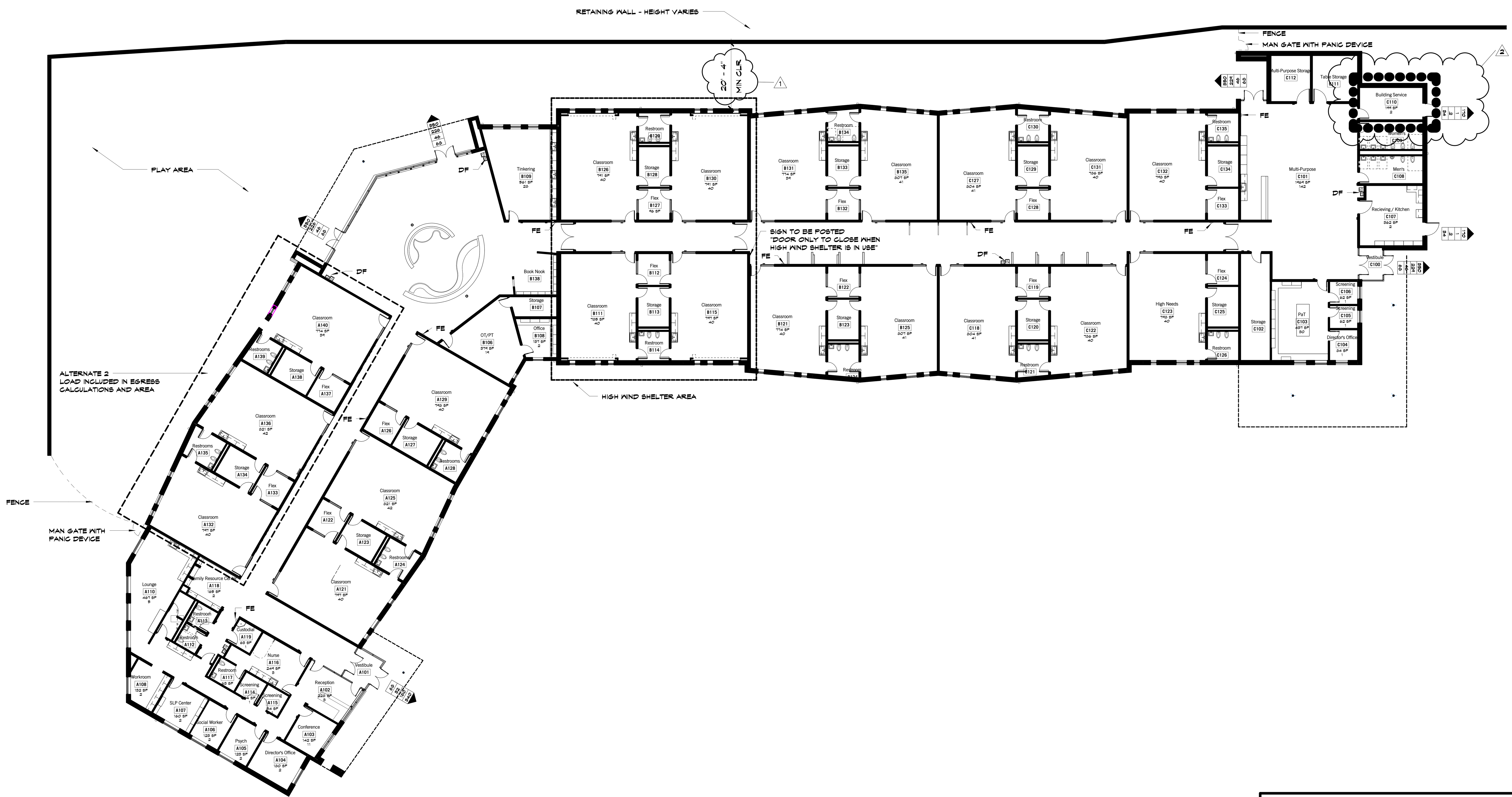
GENERAL PROJECT INFORMATION



FIRE PROTECTION ITEMS

ACTIVE FIRE PROJECTION PROVIDED:
NFPA 13 FIRE SPRINKLER SYSTEM:
- * REQUIRED FOR BUILDING HEIGHT AND AREA INCREASES;
- * PROVIDED THROUGHOUT BUILDING

FIRE ALARM SYSTEM:
- * MANUAL FIRE ALARM SYSTEM NOT REQUIRED WITH SPRINKLERS.
- * SMOKE DETECTORS AT HORIZONTAL EXITS FOR HOLD OPENS
- * AUDIBLE/VISUAL DEVICES PROVIDED THROUGHOUT COMMON SPACES AND IN CLASSROOMS.

PASSIVE FIRE PROTECTION PROVIDED:
- * CONSTRUCTION TYPE II-B, NON-COMBUSTIBLE, NON-PROTECTED.
- * TWO-HOUR FIRE WALLS BETWEEN BUILDINGS, 90-MINUTE RATED DOORS.
- * INCIDENTAL USE AREAS-STORAGE>100 SF - SMOKE RESISTANT WALLS
- * CORRIDORS - NOT RATED WITH FIRE SPRINKLERS.

PROJECT INFORMATION

TYPE OF CONSTRUCTION	II B
OWNER	JOPLIN SCHOOLS
OWNER ADDRESS	310 W. 8TH STREET JOPLIN, MO 64802
FIRE DEPARTMENT	JOPLIN FIRE DEPARTMENT
ANTICIPATED OCCUPANCY	AUGUST 2018

PROJECT CODES

THE FOLLOWING CODES WERE USED FOR THIS PROJECT:

2012	"IBC"	INTERNATIONAL BUILDING CODE
2012	"IMC"	INTERNATIONAL MECHANICAL CODE
2012	"IPC"	INTERNATIONAL PLUMBING CODE
2012	"NEC"	NATIONAL ELECTRIC CODE
2010	"ADA"	AMERICANS WITH DISABILITIES ACT
	"NFPA"	NFPA 101 LIFE SAFETY - AS ADOPTED BY CODE AUTHORITY

PROJECT CODE INFORMATION
BUILDING

OCCUPANCY TYPE	E		
TYPE OF CONSTRUCTION	II B		
ALLOWABLE BUILDING AREA	14,500		
ALLOWABLE AREA INCREASES			
SEPARATION:	9,425		
FIRE SPRINKLER:	43,500		
TOTAL ALLOWABLE AREA W/INCREASES	67,425	ACTUAL AREA	37,447
ALLOWABLE HEIGHT (# of STORIES)	2	ACTUAL	1
MIXED USE - AREA SEPARATION	0		
OCCUPANCY LOAD	1077		
NUMBER OF REQUIRED EXITS	4		

PLUMBING REQUIREMENTS

WATER CLOSETS	11 MEN	11 WOMEN
LAVATORIES	11 MEN	11 WOMEN
URINALS	0 MEN	
JANITORS CLOSETS	1	
DRINKING FOUNTAINS (ADA COMPLIANT)	9 (5)	

CONSTRUCTION TYPE	II B
EXTERIOR BEARING WALLS	0 HOUR
EXTERIOR NON-BEARING WALLS	0 HOUR
INTERIOR BEARING WALLS	0 HOUR
BUILDING SEPARATION	2 N/A HOUR
CORRIDOR WALLS	0 HOUR
PERMANENT PARTITIONS	0 HOUR
STRUCTURAL FRAME	0 HOUR
SHAFT WALLS	1 N/A HOUR
FLOOR-CEILING/FLOOR	0 HOUR
ROOF-CEILING/FLOOR	0 HOUR
EXTERIOR OPENINGS	0 HOUR

OCCUPANT LOAD
BUILDING

TOTAL EXITS REQUIRED = 4
TOTAL EXITS PROVIDED = 5
EGRESS WIDTH REQUIRED = 216 IN
EGRESS WIDTH PROVIDED = 1,076 IN

EGRESS CALCULATIONS

OCCUPANT LOAD FACTORS:
CLASSROOMS - 20 SF PER PERSON
SHOPS AND VOCATION LABS - 50 SF PER PERSON
GYMNASIUM - 50 SF PER PERSON
ASSEMBLY, STANDING SPACE (LOBBY AREAS) - 5 SF PER PERSON (NET) WHEN STANDING ROOM ONLY
ASSEMBLY, CONCENTRATED (WAITING AREAS) - 7 SF PER PERSON (NET) WHEN EQUIPPED WITH TABLES AND CHAIRS
OFFICES - 1 PERSON PER 100 SF
CONFERENCE/COMMONS - 1 PER 15 SF
MECHANICAL/STORAGE - 1 PER 300 SF
KITCHEN, COMMERCIAL - 1 PER 200 SF

TOTAL OCCUPANTS FROM TABLE 1004.2.1 = 1077
SIMULTANEOUS USE AREAS = 0

CODE LEGEND

2 HR RATED WALL CONSTRUCTION W/ 1 1/2 HR RATED OPENING ASSEMBLIES

1 HR RATED WALL CONSTRUCTION W/ 1 HR RATED OPENING ASSEMBLIES

FE — FIRE EXTINGUISHER IN CABINET

FE — FIRE EXTINGUISHER ON BRACKET

DIRECTION OF EXIT
CAPACITY
ACTUAL # OF OCCUPANTS
EXIT WIDTH REQUIRED
EXIT WIDTH PROVIDED

Classroom — ROOM NAME
A301 — ROOM NUMBER
600 SF — AREA IN SQUARE FEET
30 — NUMBER OF OCCUPANTS

ALLOWABLE AREA CALCULATIONS

$$I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30} \quad \text{(Equation 5-2)}$$

where:
I_f = Area increase due to frontage (percent).
F = Building perimenter which fronts on a public way or open space having 20 feet open minimum width.
P = Perimeter of entire building.
W = Minimum width of public way or open space.

$$I_f = 100\left[\frac{1088}{1148} - 0.25\right]\frac{28}{30}$$

I_f = 65%

506.1 General. Ther areas limited by Table 503 shall be permitted to be increased due to frontage (If) and automatic sprinkler system protection (Is) in accordance with the following:

$$A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right] \quad \text{(Equation 5-1)}$$

where:
A_a = Allowable area per floor (square feet).
A_t = Tabular area per floor in accordance with Table 503 (square feet).
I_f = Area increase due to frontage (percent) as calculated in accordance with Section 506.2.
I_s = Area increase due to sprinkler protection (percent) as calculated in accordance with Section 506.3.

$$A_a = 14{,}500 + \left[\frac{14{,}500 \times 65\%}{100}\right] + \left[\frac{14{,}500 \times 300\%}{100}\right]$$

A_a = 14,500 + 9,425 + 43,500

A_a = 67,425 SF

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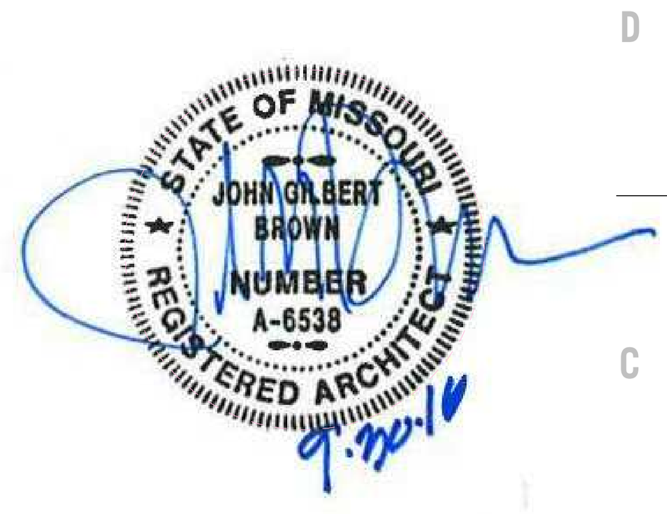
100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.25.2016



JOB NO: 16054
DRAWN BY: RW
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DATE: 09.30.2016

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OVERALL CODE FLOOR PLANS

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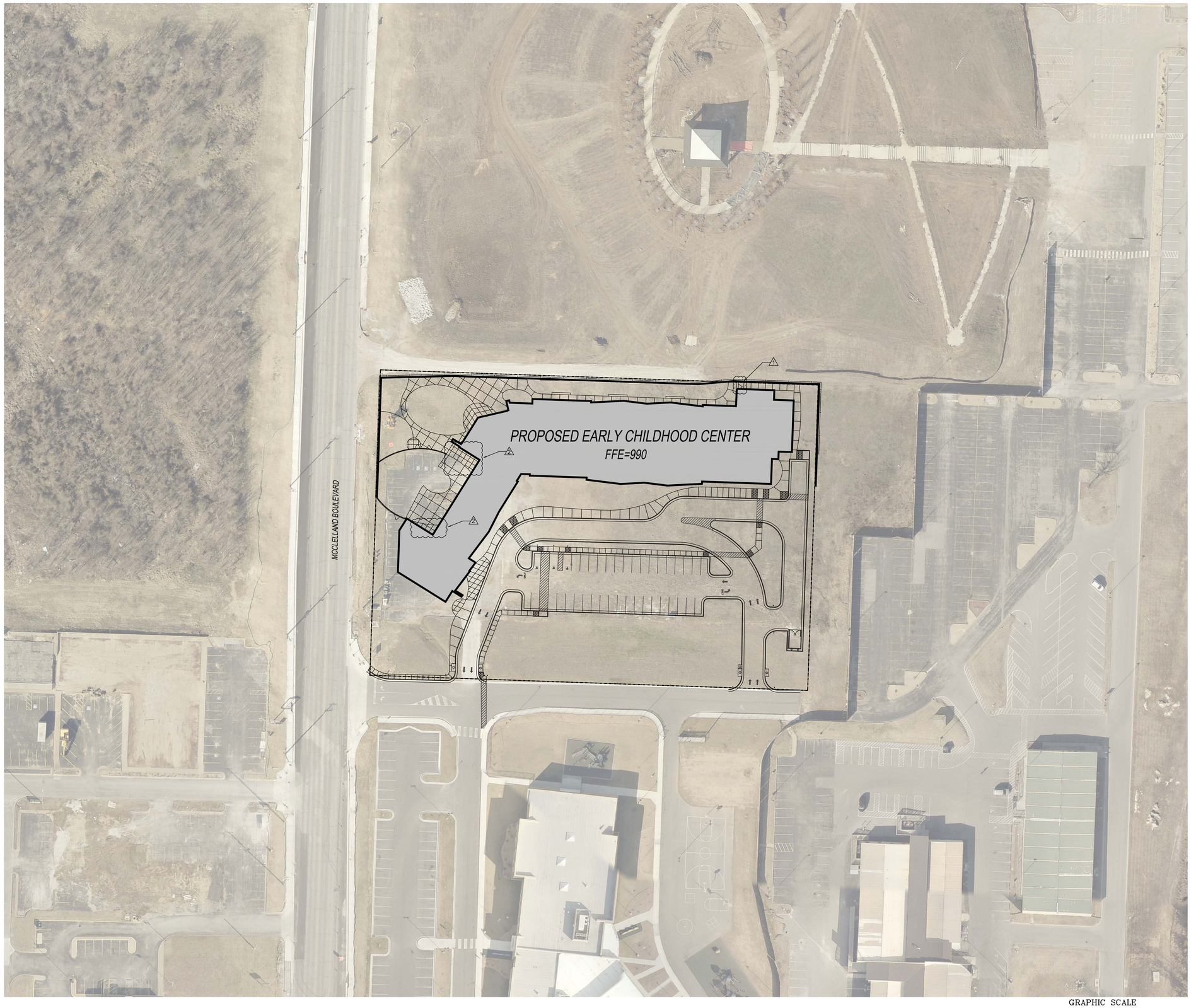

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

SHEET KEYNOTE LEGEND

CP	CONTROL POINT
FND IP	FOUND IRON PIN
SET IP	SET IRON PIN
RWM	RIGHT-OF-WAY MARKER
PP	POWER POLE W/ GUY
MH	MANHOLE
SCO	SEWER CLEANOUT
GM	GAS METER
LP	LIGHT POLE
	SIGN
	WATER METER
WV	WATER VALVE
GV	GAS VALVE
FH	FIRE HYDRANT
TR	TELEPHONE RISER
	BUMPER POST
	GRATE INLET
ER	ELECTRICAL RISER
	ELECTRICAL METER
TS	TRAFFIC SIGNAL BOX
MB	MAIL BOX
	SPOT LIGHT
	PAY PHONE
	TREELINE
	BUSH
PROPERTY LINE	
SANITARY SEWER	SS
STORM SEWER	SW
TELEPHONE LINE	TEL
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x x
RETAINING WALL	
LINE LABELS	PLAT 100' P DEED 100' D MEASURED 100' M

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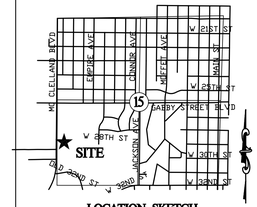
PARKING TOTALS:

- VISITOR = 19 SPACES
- STAFF = 20 SPACES

- TOTAL = 39 SPACES
- TOTAL HANDICAP = 3 SPACES

CIVIL SHEET INDEX:

GRID



LOCATION SKETCH
SECTION 15
T 27 N, R 33 W
SCALE: 1"=2000'

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CONSTRUCTION DOCUMENTS
PKG #2

Joplin Early Childhood Center
Joplin Schools

ANDERSON ENGINEERING
EMPLOYEE OWNED

REVISIONS:

1	ADDENDUM #1	10/14/2016
2	ADDENDUM #2	10/25/2016

STATE OF MISSOURI
WAYNE A. STEPHENSON
NUMBER PE-2012018139
10-25-16

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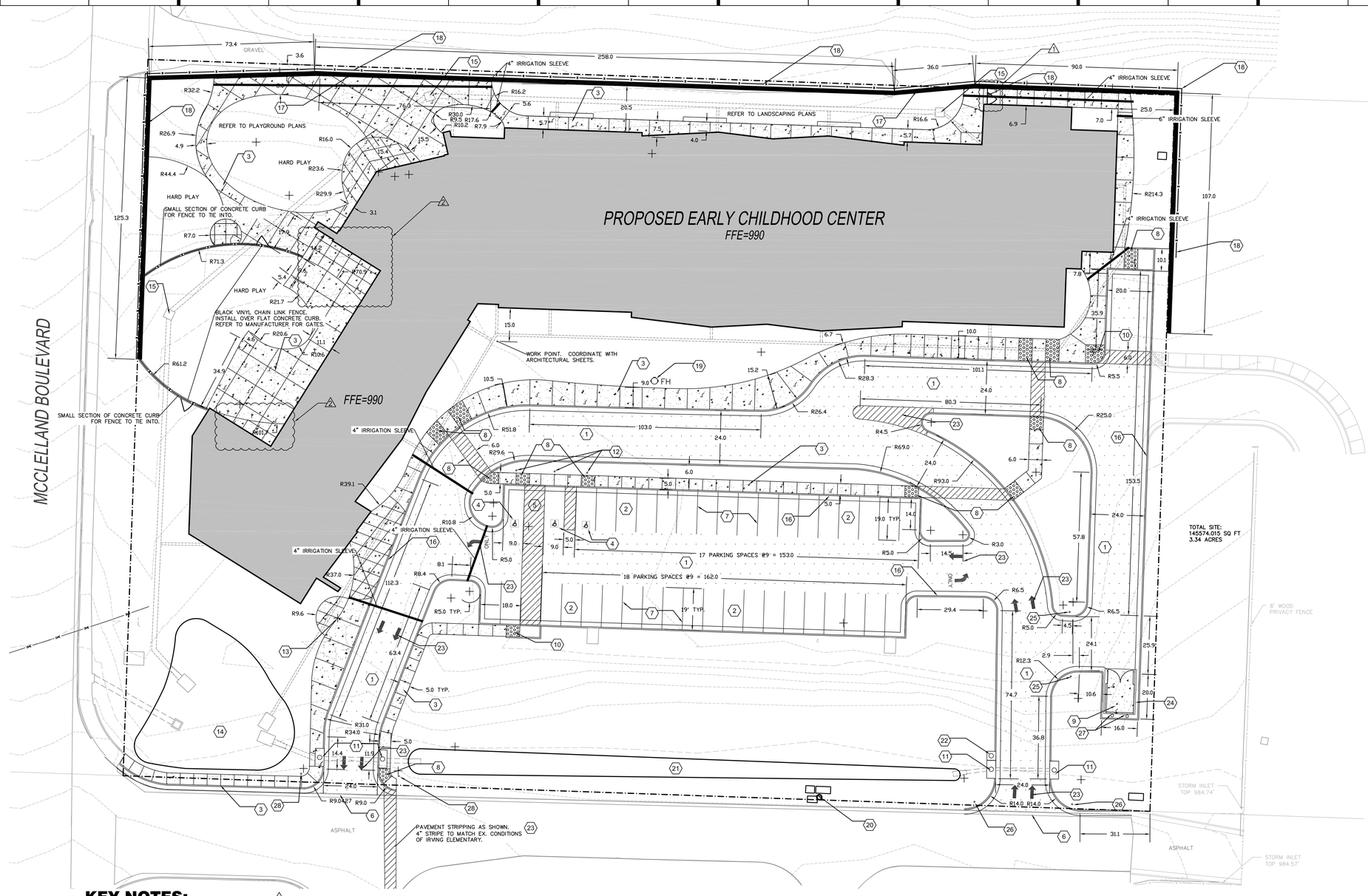
JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C100

____ OF ____

OVERALL SITE PLAN



KEY NOTES:

1. HEAVY DUTY ASPHALT PAVING REFER TO DETAIL 2/C107.
2. STANDARD DUTY ASPHALT PAVING IN PARKING: REFER TO DETAIL 1/C107
3. CONCRETE SIDEWALK: REFER TO DETAIL 10/C107.
4. HANDICAP PARKING SYMBOL: REFER TO DETAIL 3/C107.
5. HANDICAP ACCESS UNLOADING ZONE: SLOPE 2% MAX. EACH WAY (ADA COMPLIANT) AND STRIPE AS SHOWN. REFER TO DETAIL 2/C103.
6. LIMITS OF NEW PAVING: SEE DETAIL 9/C107.
7. PARKING LOT STRIPING: SYSL4" (TYP.)
8. ADA STANDARD RAMP: REFER TO DETAIL 4/C108, 5/C108 AND 6/C108
9. TRASH PAD CONCRETE PAVING-HEAVY DUTY CONCRETE: MIN. 14'x20'; REFER TO DETAIL 7/C107.
10. TYPE A ADA RAMP. REFER TO DETAIL 11/C108.
11. 4' X 8' CURB INLET REFER TO DETAIL 9/C108.
12. ADA SIGN ON POST: REFER TO DETAIL 4/C107. PROVIDE BEHIND SIDEWALK.
13. FLAG POLE LOCATION
14. WATER QUALITY POND REFER TO LANDSCAPING PLANS.
15. STORM INLET: REFER TO STORM WATER PLANS.
16. CURB AND GUTTER: REFER TO DETAIL 14/C107
17. INTERLOCKING MODULAR BLOCK RETAINING WALL: CONTRACTOR TO PROVIDE ENGINEERED SUBMITTALS FOR RETAINING WALL TYPE, LOCATION, TIEBACKS, ETC. RETAINING WALL TO BE EMERGENCY VEHICLE TRAFFIC RATED. TIEBACKS TO BE LOCATED ALONG GRAVEL DRIVE PER MANUFACTURER REQUIREMENTS FOR LIVE TRAFFIC LOADING. REFER TO GRADING PLAN & DETAIL 7/C108 FOR ADDITIONAL DETAILS. SEE SHEET C109 FOR ALTERNATES.
18. CHAIN LINK FENCE: REFER TO DETAIL 12/C108.
19. FIRE HYDRANT ASSEMBLY REFER TO DETAIL 8/C108
20. NEW LOCATION OF ELECTRIC BOX AND VAULT. WORK TO BE DONE BY EMPIRE ELECTRIC.
21. WATER QUALITY SWALE: REFER TO GRADING PLAN/LANDSCAPING PLANS
22. 4' X 4' CURB INLET. CURB INLET SHOULD MEET JOPLIN STANDARDS AND SPECIFICATIONS.
23. STRIPING AS SHOWN. SEE DETAIL 11/C107.
24. TRASH ENCLOSURE. REFER TO ARCH DETAILS.
25. BUS ONLY SIGN: PROVIDE SUBMITTALS
26. ENTRANCE ONLY SIGN: PROVIDE SUBMITTALS
27. CONCRETE BOLLARD: REFER TO DETAIL 4/C107.
28. EXIT ONLY SIGN: PROVIDE SUBMITTALS.

GENERAL NOTES:

A. ALL SITE DIMENSIONS TO THE EDGE OF PAVEMENT, CONCRETE OR PROPERTY LINE UNLESS OTHERWISE NOTED.

B. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.

B. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

C. REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.

D. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.

E. DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.

F. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

PAVEMENT MARKING KEY:

SYSL4" - SINGLE YELLOW SOLID LINE, 4" WIDE

PAINT LEGEND	
BOLLARDS	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST. 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300.
STRIPING AND HANDICAP STRIPING	SURFACES SHOULD BE CLEAN, DRY, TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT YELLOW TM5495
HANDICAP PARKING "SYMBOLS" ONLY	SURFACES SHOULD BE CLEAN, DRY, TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE

NOTE: SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.

INTERLOCKING MODULAR BLOCK RETAINING WALL NOTE: RETAINING WALL TO MEET MANUFACTURER'S GUIDELINES AND REQUIREMENTS. ALL RETAINING WALL SUBMITTALS TO BE ENGINEERED BY MANUFACTURER & REVIEWED BY CIVIL ENGINEER FOR CONFORMANCE AND ACCEPTANCE PRIOR TO ORDERING MATERIALS.

GRID

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

SHEET KEYNOTE LEGEND

- CP CONTROL POINT
- FND IP FOUND IRON PIN
- SET IP SET IRON PIN
- RWM RIGHT-OF-WAY MARKER
- PP GV POWER POLE W/ GUY
- MH MANHOLE
- SCO SEWER CLEANOUT
- GM GAS METER
- LP LIGHT POLE
- SIGN
- WATER METER
- WV WATER VALVE
- GV GAS VALVE
- FH FIRE HYDRANT
- TR TELEPHONE RISER
- BUMPER POST
- GRATE INLET
- ER ELECTRICAL RISER
- ELECTRICAL METER
- TS TRAFFIC SIGNAL BOX
- MB MAIL BOX
- SPOT LIGHT
- PAY PHONE
- TREELINE
- BUSH
- PROPERTY LINE
- SANITARY SEWER — SS —
- STORM SEWER — SW —
- TELEPHONE LINE — TEL —
- UNDERGROUND TELEPHONE — UT —
- GAS LINE — G —
- WATER LINE — W —
- ELECTRIC LINE — OHE —
- UNDERGROUND ELECTRIC — UE —
- FENCE LINE — x — x —
- RETAINING WALL
- LINE LABELS PLAT 100' P; DEED 100' D; MEASURED 100' M

LEGEND FOR PAVEMENT TYPES

- HEAVY DUTY PAVEMENT
- STANDARD DUTY PAVEMENT
- CONCRETE PAVING

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PKG #2

Joplin Early Childhood Center
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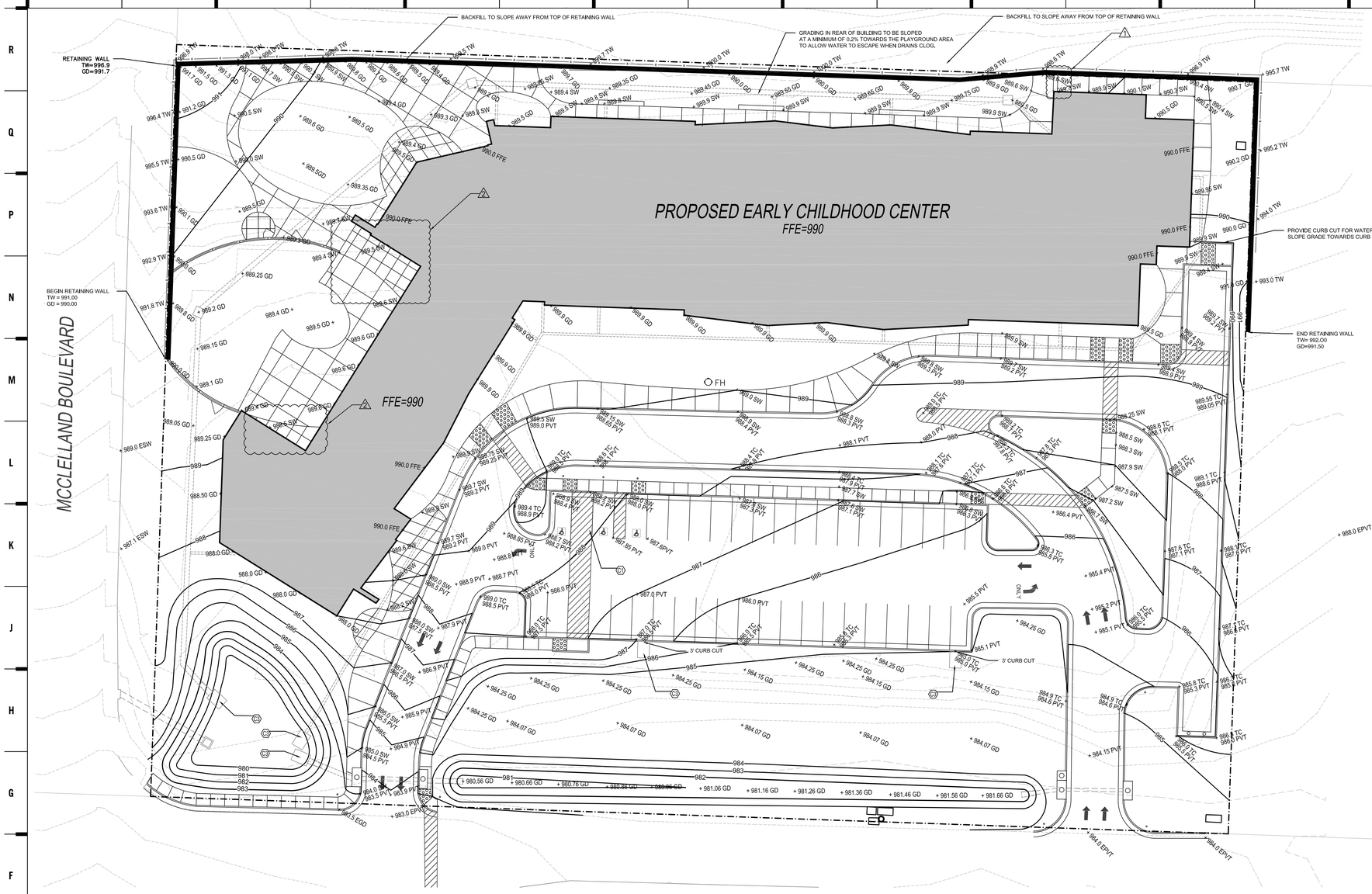
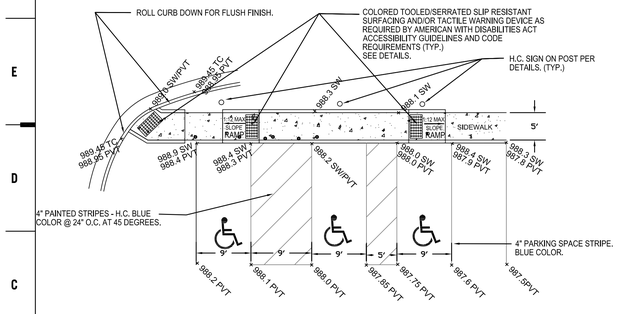
JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C102

____ OF ____

SITE GEOMETRY PLAN





HANDICAP ACCESSIBLE ROUTE:
1. *GRADING AT HANDICAP ACCESSIBLE PARKING & LOADING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION.*
2. *GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE.*
3. *GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.*

NOTE:
ALL HANDICAPPED RAMP AND ACCESS AISLES SHALL MEET ALL CODES AND ADAAG REGULATIONS.

2 HANDICAP PARKING DETAIL
C103 SCALE: NOT TO SCALE

SYMBOLS LEGEND

REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.

----990----	*EXISTING GRADE LINES*	
——990——	*PROPOSED NEW GRADE LINES*	
	NEW BUILDING CONSTRUCTION	
	RIGHT OF WAY	
	TEMPORARY BENCHMARK: *SQUARE CUT ON CURB ON WEST SIDE OF MCCLELLAND BOULEVARD. ELEV = 996.27' (REFER TO SURVEY FOR VERTICAL CONTROL)*	+ 996.27 TC

NEW SPOT ELEVATIONS

LIST	ABBREVIATION
GRADE	NONE
SIDEWALK	SW
TOP OF WALL	TW
TOP OF CURB	TC
TOP OF PAVEMENT	PVT
NEW GRADE	GD
CONCRETE	CONC
EXISTING TOP OF CURB	ETC
EXISTING GRADE	EGD
EXISTING PAVEMENT	EPVT
EXISTING SIDEWALK	ESW
FLOW LINE	FL
TOP OF BERM	TOP

GRID

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

SHEET KEYNOTE LEGEND

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- FND IP FOUND IRON PIN
- SET IP SET IRON PIN
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- MH MANHOLE
- SCO SEWER CLEANOUT
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- MB MAIL BOX
- SPOT LIGHT
- PAY PHONE
- TREELINE
- BUSH

PROPERTY LINE	
SANITARY SEWER	SS
STORM SEWER	SW
TELEPHONE LINE	TEL
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x x
RETAINING WALL	

LINE LABELS — PLAT 100' P; DEED 100' D; MEASURED 100' M

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KEY NOTES:

(1) *HANDICAP PARKING AREA. REFER TO DETAIL 2/C103.*

(2) *10" HDPE DOWNSPOUT COLLECTION PIPE MINIMUM SLOPE = 1%*

(3) *INSTALL 5'x7' RIPRAP PAD. REFER TO DETAIL 3/C104.*

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Joplin Schools

ANDERSON ENGINEERING EMPLOYEE OWNED

REVISIONS:

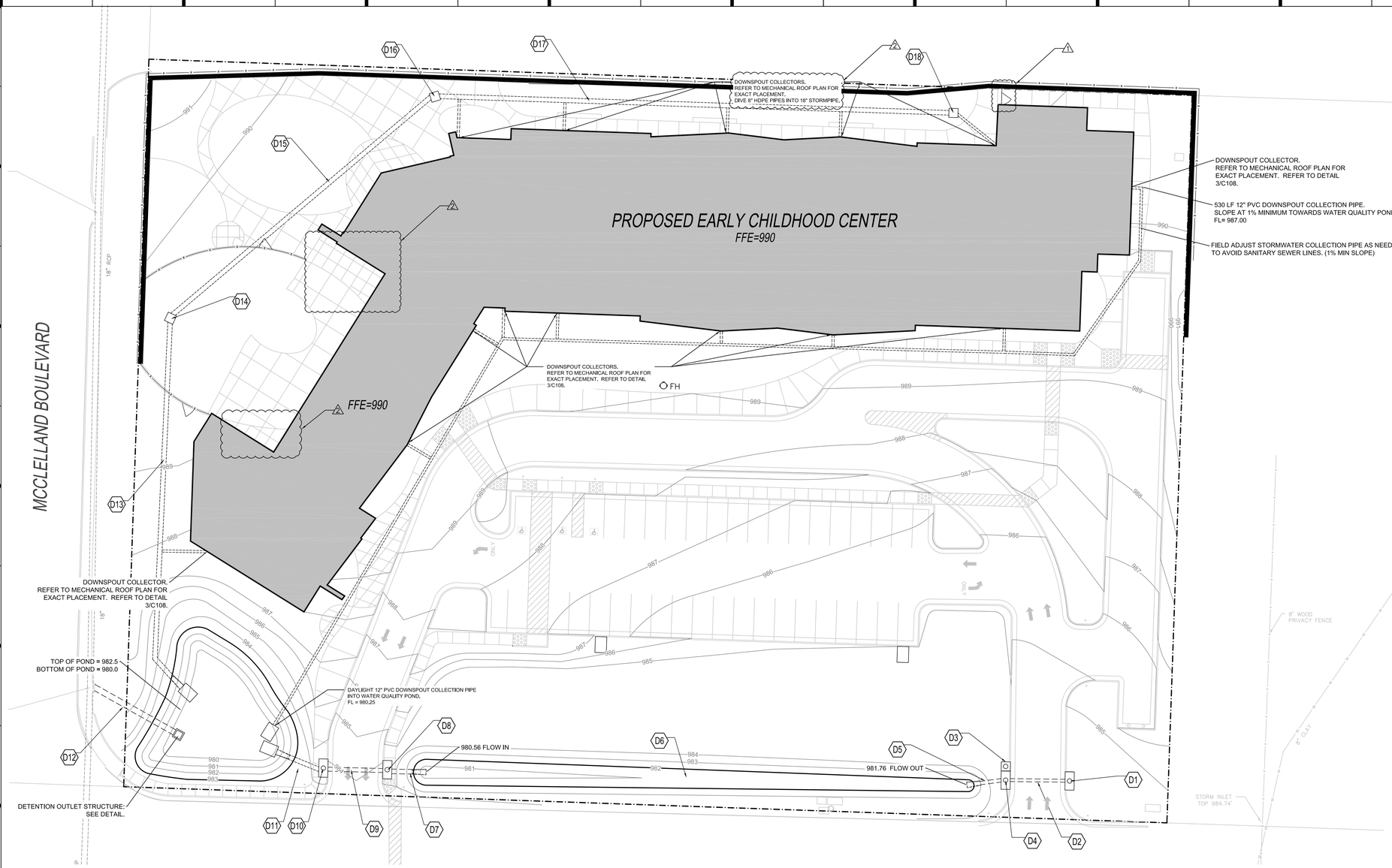
1	ADDENDUM #1	10/14/2016
2	ADDENDUM #2	10/25/2016

STATE OF MISSOURI — WAYNE A. STEPHENSON — NUMBER PE-2012018139 — 10-25-16

JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C103
____ OF ____

SITE GRADING PLAN



SHEET KEYNOTE LEGEND

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FND IP	FOUND IRON PIN
SET IP	SET IRON PIN
RWM	RIGHT–OF–WAY MARKER
PP	POWER POLE W/ GUY
MH	MANHOLE
SCO	SEWER CLEANOUT
GM	GAS METER
LP	LIGHT POLE
	SIGN
	WATER METER
WV	WATER VALVE
GV	GAS VALVE
FH	FIRE HYDRANT
TR	TELEPHONE RISER
	BUMPER POST
	GRATE INLET
ER	ELECTRICAL RISER
	ELECTRICAL METER
TS	TRAFFIC SIGNAL BOX
MB	MAIL BOX
	SPOT LIGHT
	PAY PHONE
	TREELINE
	BUSH
PROPERTY LINE	
SANITARY SEWER	SS
STORM SEWER	SW
TELEPHONE LINE	TEL
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x x
RETAINING WALL	
LINE LABELS	PLAT 100' P; DEED 100' D; MEASURED 100' M

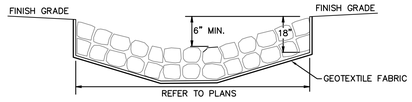
MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP–CALL BEFORE YOU DIG!

RIP-RAP NOTE:

PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. RIP-RAP SHALL CONSIST OF MATERIAL WITH A PREDOMINANT ROCK SIZE OF 6", A MAXIMUM ROCK SIZE OF 10", AND A GRADATION SUCH THAT NO MORE THAN 15% WILL BE LESS 3". STONES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE. ALL RIP-RAP SHALL BE PLACED OVER GEOTEXTILE FILTER FABRIC.

DRAINAGE STRUCTURE INDEX:

STRUCTURE #	STRUCTURE TYPE	FL IN (FT)	FL OUT (FT)	TOP (FT)	SIZE	LENGTH (FT)	SLOPE (%)
D1	CURB INLET	N/A	981.97	985.8	4' X 8'	N/A	N/A
D2	RCP PIPE	981.97	981.85	N/A	15"	24	0.5
D3	CURB INLET	N/A	N/A	984.7	4' X 4'	N/A	N/A
D4	CURB INLET	981.85	981.83	984.7	4' X 8'	N/A	N/A
D5	HDPE PIPE W/FLARED END SECTION	981.83	981.76	N/A	18"	15	0.5
D6	WATER QUALITY SWALE	981.76	980.56	983	N/A	240	0.5
D7	HDPE PIPE W/FLARED END SECTION	980.56	980.49	N/A	21"	15	0.5
D8	CURB INLET	980.49	980.47	984.5	4' X 8'	N/A	N/A
D9	RCP PIPE	980.47	980.35	N/A	24"	24	0.5
D10	CURB INLET	980.35	980.33	984.5	4' X 8'	N/A	0.5
D11	HDPE PIPE W/FLARED END SECTION	980.33	980.24	N/A	24"	19.5	0.5
D12	RCP PIPE	980.00	979.79	N/A	30"	41	0.51
D13	HDPE PIPE W/FLARED END SECTION	981.05	980.25	N/A	24"	160	0.50
D14	AREA INLET	981.15	981.05	989.2	4' X 4'	N/A	N/A
D15	HDPE PIPE	981.89	981.15	N/A	18"	148	0.5
D16	AREA INLET	981.99	981.89	989.2	4' X 4'	N/A	N/A
D17	HDPE PIPE	983.1	981.99	N/A	18"	223	N/A
D18	AREA INLET	N/A	982.37	989.5	4' X 4'	N/A	N/A



NOTES:
1. HAND PLACE RIP–RAP IN ALL PLACES AS INDICATED ON THE PLAN.
2. THE STONE FOR RIP–RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL.
3. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED.
4. STONES SHALL BE A MINIMUM OF 6" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.
5. RIPRAP PAD SHALL HAVE NO SLOPE FOR THE LENGTH OF THE RIPRAP PAD.
6. FINISHED GRADE ADJACENT TO THE RIPRAP PAD SHALL BE A MINIMUM OF 6" ABOVE THE RIPRAP PAD BOTTOM.

2 / C104 RIPRAP PAD DETAIL
SCALE: NOT TO SCALE

GRAPHIC SCALE

30 0 10 20 40 60
(IN FEET)
1 inch = 20 ft.

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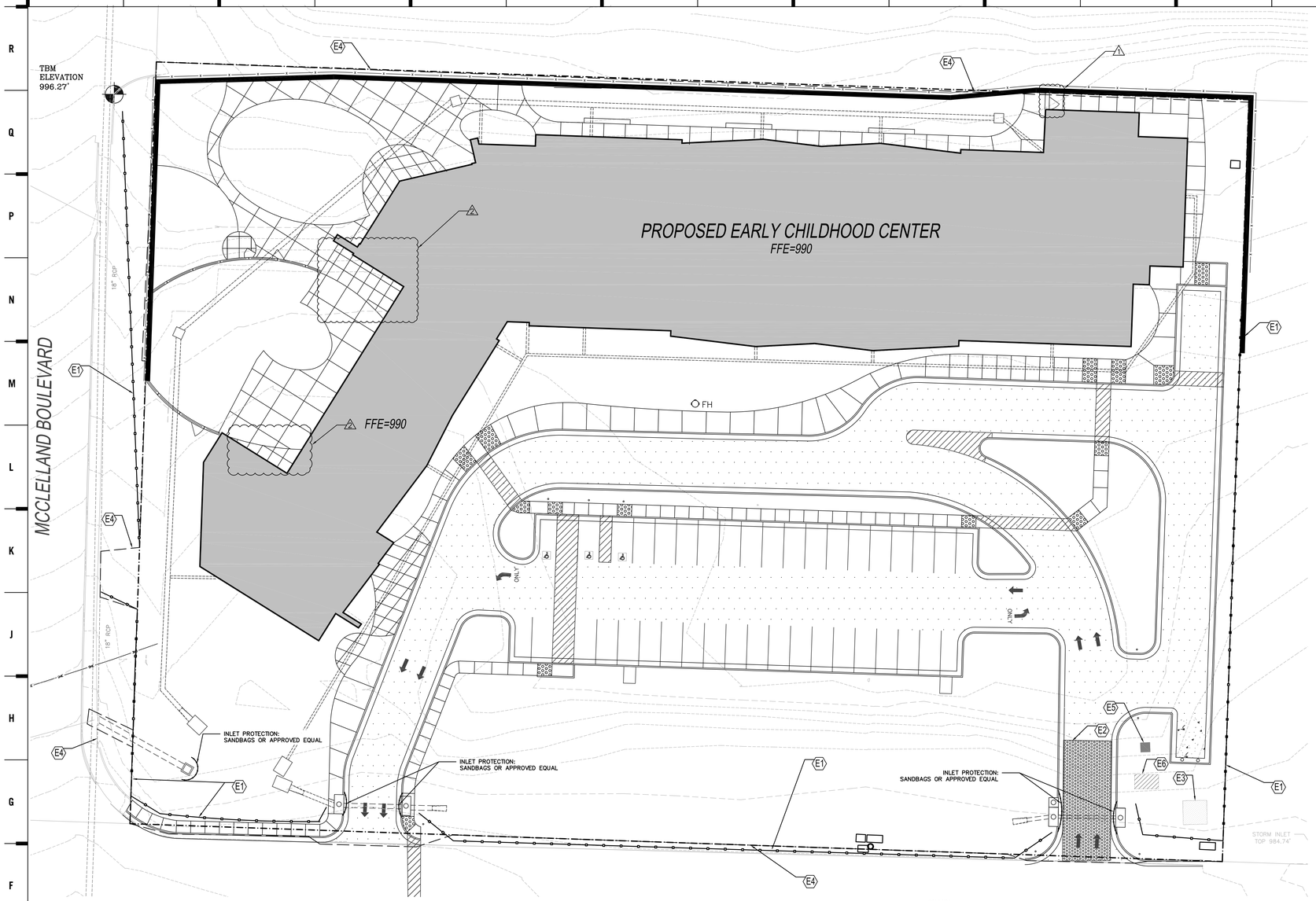
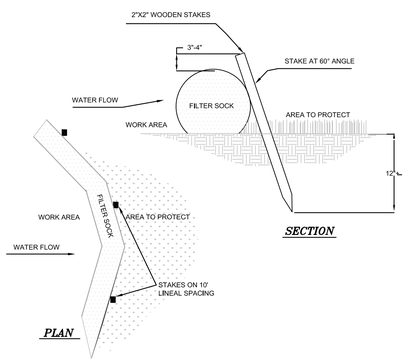
C104

____ OF ____

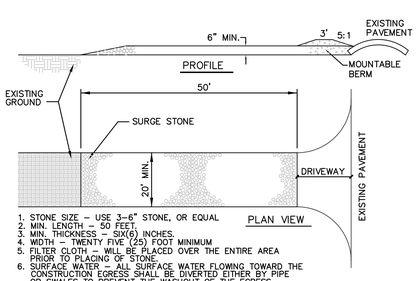
STORMWATER PLAN - SITE





1 COMPOSITE FILTER SOCKS

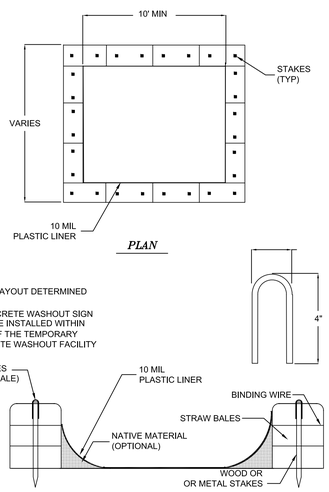
C105 SCALE: NOT TO SCALE



1. STONE SIZE – USE 3–6" STONE, OR EQUAL
2. MIN. LENGTH – 50 FEET.
3. MIN. THICKNESS – SIX(6) INCHES.
4. WIDTH – TWENTY FIVE (25) FOOT MINIMUM
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING TOWARD THE CONSTRUCTION EGRESS SHALL BE DIVERTED EITHER BY PIPE OR SWALES TO PREVENT THE WASHOUT OF THE EGRESS.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.

2 CONSTRUCTION EGRESS DETAIL

C105 SCALE: NOT TO SCALE



3 CONCRETE WASHOUT

C105 SCALE: NOT TO SCALE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

KEY NOTES:

* CONTRACTOR TO ENSURE SEDIMENT STAYS ON-SITE. PROVIDE ADDITIONAL MEASURES AS NECESSARY, TO PREVENT OFF-SITE TRACKING AND SEDIMENT DISPOSITION.
* PROVIDE INLET PROTECTION TO IRVING ELEMENTARY INLETS AS NEEDED TO PREVENT SEDIMENT DISPOSITION.

*E1 INSTALL 12" COMPOST FILTER SOCKS OR APPROVED EQUAL. SEE DETAIL 1/C105.

E2 INSTALL TEMPORARY CONSTRUCTION EGRESS. COORDINATE LOCATION WITH CONTRACTOR AND SCHOOL DISTRICT TO PREVENT DAMAGE TO IRVING IMPROVEMENTS. SEE DETAIL 2/C105.

E3 INSTALL 10'x10' CONCRETE WASHOUT AREA. SEE DETAIL 3/C105.

E4 LIMITS OF DISTURBED AREA.

E5 LOCATION OF PORTA-POTTY

E6 LOCATION OF DUMPSTER

SITE DESCRIPTION

SITE LOCATION: 2810 SOUTH MCCLELLAND BOULEVARD,JOPLIN, MO
LATITUDE: 37°03'34", LONGITUDE: 94°31'53"
ADJACENT PROPERTIES:
NORTH=PARK
WEST=MCCLELLAND BOULEVARD
SOUTH=IRVING ELEMENTARY SCHOOL
EAST=ABANDONED PARKING LOT
TOTAL SITE AREA: LIMITS OF SITE =3.34 AC

SITE TOPOGRAPHY: THE SITE SLOPES TO THE WEST AND SOUTH AND THE EXISTING AREA IS MOSTLY GRASS WITH ABANDONED PAVEMENT.

POST-CONSTRUCTION CONDITIONS: POST CONSTRUCTION RUNOFF COEFFICIENT, C=0.87 (2.34 AC AT 0.98 AND 1.00 AC AT 0.61)

ENVIRONMENTAL PERMITS (OTHER THAN NPDES, STORMWATER, AND/OR EROSION & SEDIMENT CONTROL: NONE

THREATENED AND ENDANGERED SPECIES: THERE ARE NO KNOWN ISSUES RELATED TO THREATENED AND ENDANGERED SPECIES

HISTORICAL PROPERTIES: THERE ARE NO KNOWN ISSUES RELATED TO HISTORICAL PRESERVATION.

GRID

SHEET KEYNOTE LEGEND

CP	CONTROL POINT
FND IP	FOUND IRON PIN
SET IP	SET IRON PIN
RWM	RIGHT–OF–WAY MARKER
PP GY	POWER POLE W/ GUY
MH	MANHOLE
SCO	SEWER CLEANOUT
GM	GAS METER
LP	LIGHT POLE
	SIGN
	WATER METER
WV	WATER VALVE
GV	GAS VALVE
FH	FIRE HYDRANT
TR	TELEPHONE RISER
	BUMPER POST
	GRATE INLET
ER	ELECTRICAL RISER
	ELECTRICAL METER
TS	TRAFFIC SIGNAL BOX
MB	MAIL BOX
	SPOT LIGHT
	PAY PHONE
	TREELINE
	BUSH
PROPERTY LINE	
SANITARY SEWER	SS
STORM SEWER	SW
TELEPHONE LINE	TEL
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x x
RETAINING WALL	
LINE LABELS	PLAT 100' P DEED 100' D MEASURED 100' M

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DRY DENTION POND

DRY DETENTION POND TO BE CONSTRUCTED AT COMMENCEMENT OF SITE GRADING TO TEMPORARILY ACT AS SEDIMENT SETTLING POND. POND SHALL BE CLEANED OF SEDIMENT AS NEEDED AND UPON SITE STABILIZATION.

RIP-RAP NOTE:

PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. RIP-RAP SHALL CONSIST OF MATERIAL WITH A PREDOMINANT ROCK SIZE OF 6", A MAXIMUM ROCK SIZE OF 10", AND A GRADATION SUCH THAT NO MORE THAN 15% WILL BE LESS 3". STONES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE. ALL RIP-RAP SHALL BE PLACED OVER GEOTEXTILE FILTER FABRIC.

EROSION CONTROL

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY GOVERNING AUTHORITY. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. ALL GRASS AREAS WHERE SLOPES EXCEED 3:1 (H:V) SHALL BE STABILIZED WITH TEMPORARY TURF REINFORCEMENT MATS. INSTALLATION OF TEMPORARY TURF REINFORCEMENT MATS SHALL BE TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER TO COORDINATE PROPER INSTALLATION OF TEMPORARY TURF REINFORCEMENT MATS TO PREVENT SLOPE FAILURES AND EROSION.
7. SEE SWPP BOOKLET FOR ADDITIONAL INSTRUCTIONS.

STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.
2. INSTALLATION OF EROSION CONTROL MEASURES.
3. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS.
4. FINAL GRADING.
5. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
6. REMOVAL OF EROSION CONTROL MEASURES.

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CONSTRUCTION DOCUMENTS
PKG #2

Joplin Early Childhood Center
Joplin Schools

ANDERSON ENGINEERING
EMPLOYEE OWNED

REVISIONS:

1	ADDENDUM #1	10/14/2016
2	ADDENDUM #2	10/25/2016

STATE OF MISSOURI
WAYNE A. STEPHENSON
NUMBER PE-2012018139
10-25-16

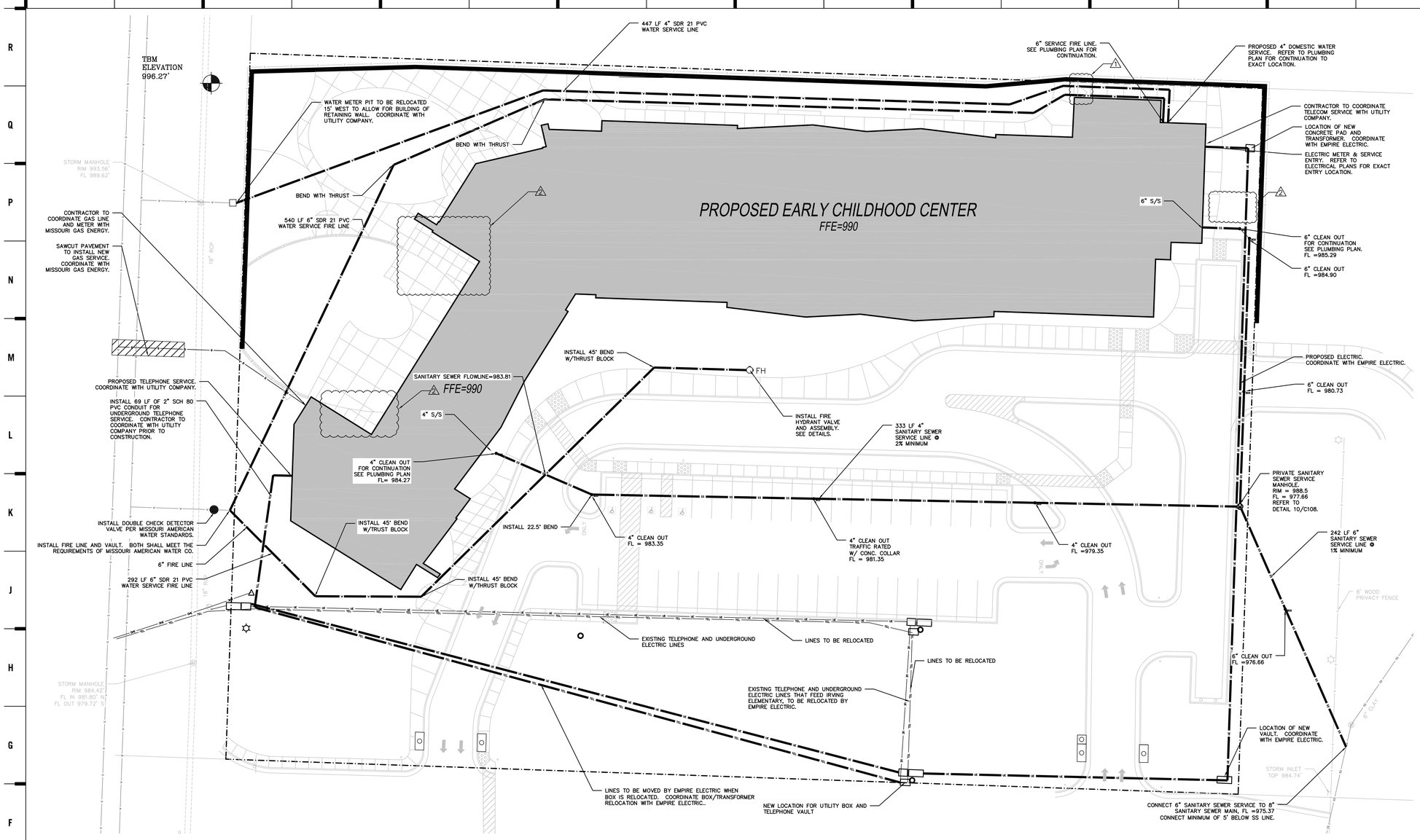
The Professional Engineers seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by the engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C105

OF

STORMWATER POLLUTION PREVENTION PLAN



SHEET KEYNOTE LEGEND

CP	CONTROL POINT
FND IP	FOUND IRON PIN
SET IP	SET IRON PIN
RWM	RIGHT-OF-WAY MARKER
PP	POWER POLE W/ GUY
MH	MANHOLE
SCO	SEWER CLEANOUT
GM	GAS METER
LP	LIGHT POLE
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FH	FIRE HYDRANT
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TS	TRAFFIC SIGNAL BOX
MB	MAIL BOX
	SPOT LIGHT
	PAY PHONE
	TREELINE
	BUSH

PROPERTY LINE	
SANITARY SEWER	SS
STORM SEWER	SW
TELEPHONE LINE	TEL
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x x
RETAINING WALL	

LINE LABELS — PLAT 100' P; DEED 100' D; MEASURED 100' M

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NEW UTILITIES SYMBOLS

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

WS	WATER SERVICE
SS	SANITARY SEWER SERVICE
UGE	U/G ELECTRIC
TEL	U/G PHONE
T	U/G PHONE (BY PHONE CO.)
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD PHONE
FO	FIBER OPTIC CABLE
	SAW CUT
	BORE

GENERAL NOTES:

1. ALL WORK, MATERIALS, AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF JOPLIN STANDARD SPECIFICATIONS, DATED MAY 31, 2016. CONTRACTORS SHALL OBTAIN A COPY OF THESE STANDARDS TO ENSURE COMPLIANCE.
2. EXISTING UTILITIES AND UNDERGROUND INSTALLATIONS HAVE BEEN LOCATED TO THE GREATEST EXTENT PRACTICAL THROUGH REVIEW OF CONSTRUCTION PLANS AND SURFACE OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
3. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
4. NO WORK SHALL COMMENCE UNTIL ALL NECESSARY PERMITS ARE OBTAINED BY THE OWNER.
5. PROVIDE POSITIVE DRAINAGE AWAY FROM ANY BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
7. THE REMOVAL OF ANY TREES GREATER THAN 7 INCHES IN DIAMETER AT BREAST HEIGHT (DBH) ARE TO BE CLEARED WITH THE CITY PRIOR TO REMOVAL.
8. ANY DAMAGE TO EXISTING STRUCTURES, VEGETATION, OR IMPROVEMENTS RESULTING FROM NEW CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

SANITARY SEWER NOTES:

ALL 4" AND 6" SANITARY SEWER SERVICE LINES SHALL BE SCHEDULE 40 PVC. ALL 4" SANITARY SEWER SERVICE LINES SHALL HAVE A 2% MINIMUM SLOPE AND 6" SANITARY SEWER SERVICE LINES SHALL HAVE A 1% MINIMUM SLOPE. INSTALL CLEAN OUTS AT ALL CHANGES IN SLOPE AND/OR GEOMETRY AND @ EVERY 100'.

AT&T CONDUIT NOTES:

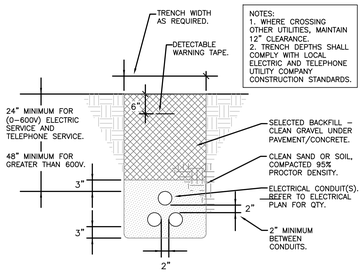
PRIOR TO PURCHASING AND INSTALLING, CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION WITH AT&T.

FIRE LINE NOTES:

INSTALL ALL BENDS FOR 6" WATER LINE WITH NECESSARY MECHANICAL RESTRAINED JOINT AND MECHANICAL RESTRAINED FITTINGS PER THE STANDARD SPECIFICATIONS FOR THE CITY OF JOPLIN.

INSTALL DOUBLE CHECK DETECTOR VALVE ASSEMBLY AT WEST CONNECTION OF 6" FIRE LINE TO WATER MAIN ON MCCLELLAND STREET PER ALL MISSOURI DEPARTMENT OF NATURAL RESOURCES AND MISSOURI AMERICAN WATER REQUIREMENTS. CONTRACTOR MAY REUSE ANY EXISTING DOUBLE CHECK DETECTOR VALVE ASSEMBLY IF INSPECTION AND TESTING IS APPROVED BY A QUALIFIED INSTALLER.

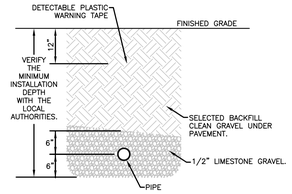
FIRE DEPARTMENT SHALL APPROVE EXACT LOCATION OF HYDRANTS PRIOR TO INSTALLATION.



2 C106 UNDERGROUND ELECTRICAL CONDUITS
SCALE: NOT TO SCALE

SPECIAL NOTE:
CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANIES.

WATER VAULT NOTE:
WATER VAULT TO BE RELOCATED 15' WEST TO ALLOW FOR BUILDING OF RETAINING WALL. COORDINATE WITH UTILITY COMPANY FOR RELOCATION AND LINE PLACEMENTS.



3 C106 PIPE INSTALLATION DETAIL
SCALE: NOT TO SCALE

STAGES OF CONSTRUCTION:

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5. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
6. REMOVAL OF EROSION CONTROL MEASURES.

GRID

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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CONSTRUCTION DOCUMENTS
PKG #2

Joplin Early Childhood Center
Joplin Schools

ANDERSON ENGINEERING
EMPLOYEE OWNED

REVISIONS:

1	ADDENDUM #1	10/14/2016
2	ADDENDUM #2	10/25/2016

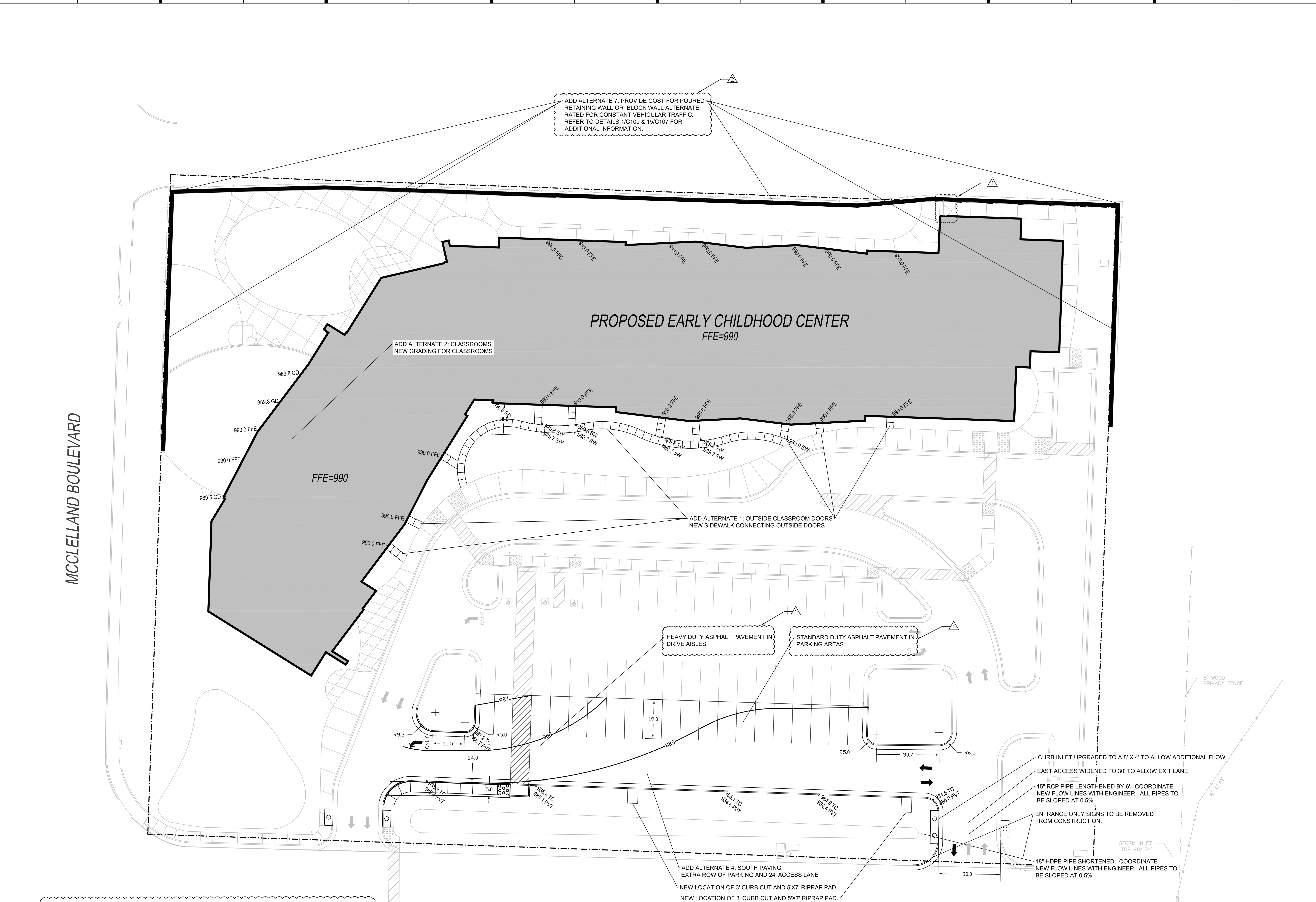
STATE OF MISSOURI
WAYNE A. STEPHENSON
NUMBER PE-2012018139
10-25-16

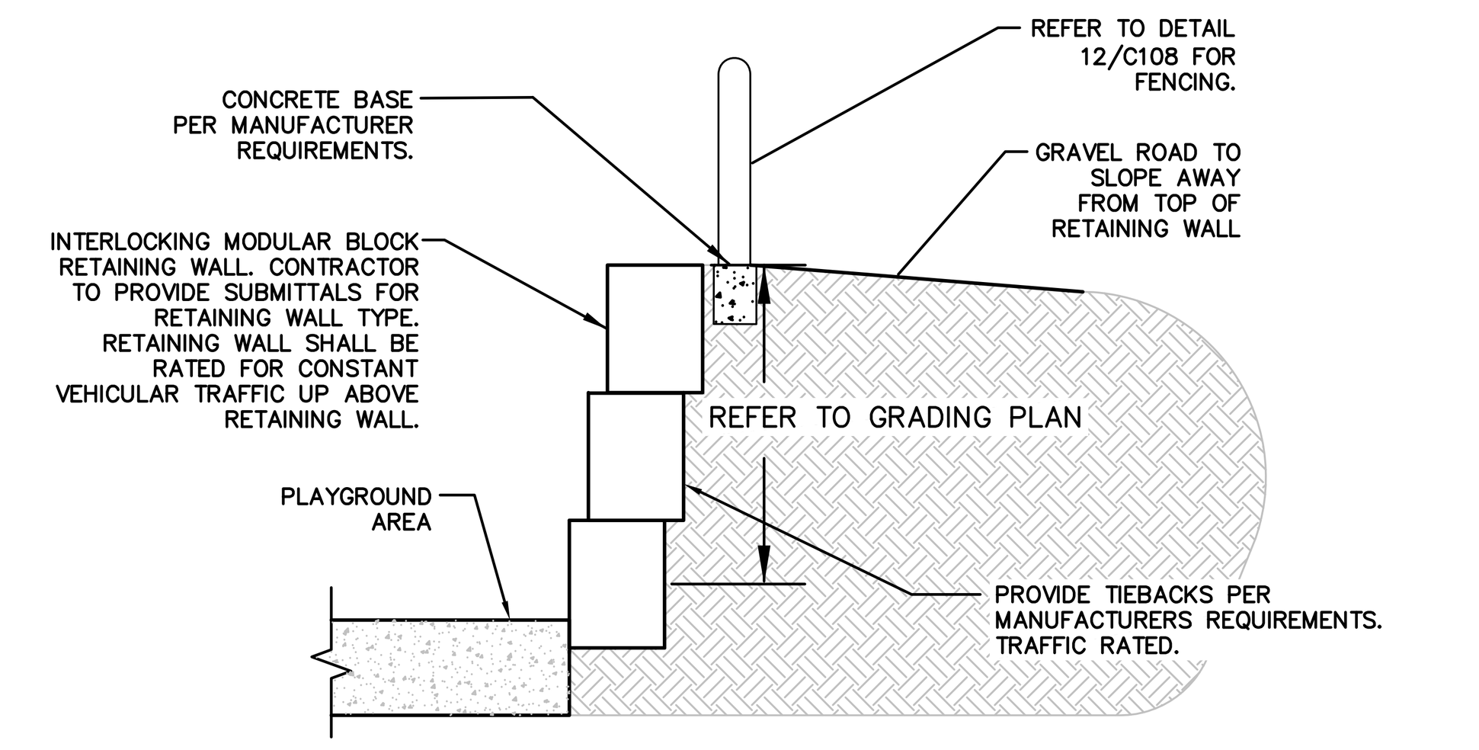
JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C106

OF

UTILITY PLAN





GENERAL NOTES:
1. CONTRACTOR TO PROVIDE ENGINEERED MODULAR BLOCK WALL DRAWINGS FROM MANUFACTURERS: REDI-ROCK, WORLDBLOCK, KEYSTONE, OR APPROVED EQUAL FOR MOST COST EFFECTIVE DESIGN.
2. REFER TO MANUFACTURER FOR SPECIFIC WALL REQUIREMENTS.
3. WALL TO BE INSTALLED PER MANUFACTURER REQUIREMENTS.

1 / C109 — ADD ALTERNATE MODLUAR BLOCK RETAINING WALL

SCALE: NOT TO SCALE

SHEET KEYNOTE LEGEND

Symbol	Description
CP	CONTROL POINT
FND IP	FOUND IRON PIN
SET IP	SET IRON PIN
RWM	RIGHT-OF-WAY MARKER
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WATER LINE	W
ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC	UE
FENCE LINE	x
RETAINING WALL	
LINE LABELS	PLAT 100' P; DEED 100' D; MEASURED 100' M

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ADD ALTERNATE PARKING TOTALS:

- VISITOR = 19 SPACES
- STAFF = 40 SPACES
- TOTAL = 59 SPACES
- TOTAL HANDICAP = 3 SPACES

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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CONSTRUCTION DOCUMENTS
PKG #2

Joplin Early Childhood Center

Joplin Schools

ANDERSON ENGINEERING
EMPLOYEE OWNED

REVISIONS:

1	ADDENDUM #1	10/14/2016
2	ADDENDUM #2	10/25/2016

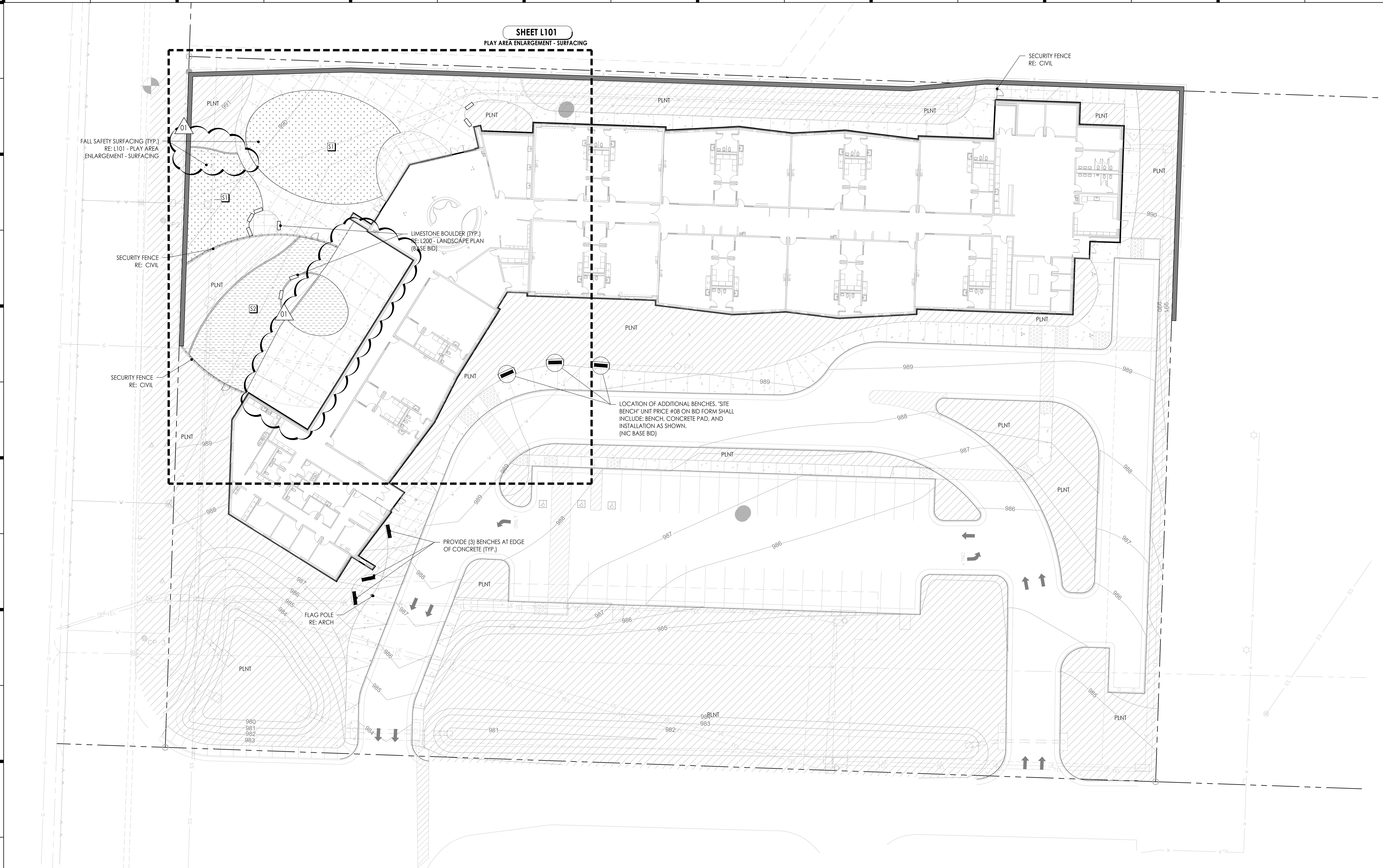
STATE OF MISSOURI
WAYNE A. STEPHENSON
NUMBER PE-2012018139
PROFESSIONAL ENGINEER
10-25-16

JOB NO: 50040-16
DRAWN BY: JOSHUA OATHOUT, EI
CHECKED BY: WAYNE STEPHENSON, PE
DATE: 10.25.2016

C109

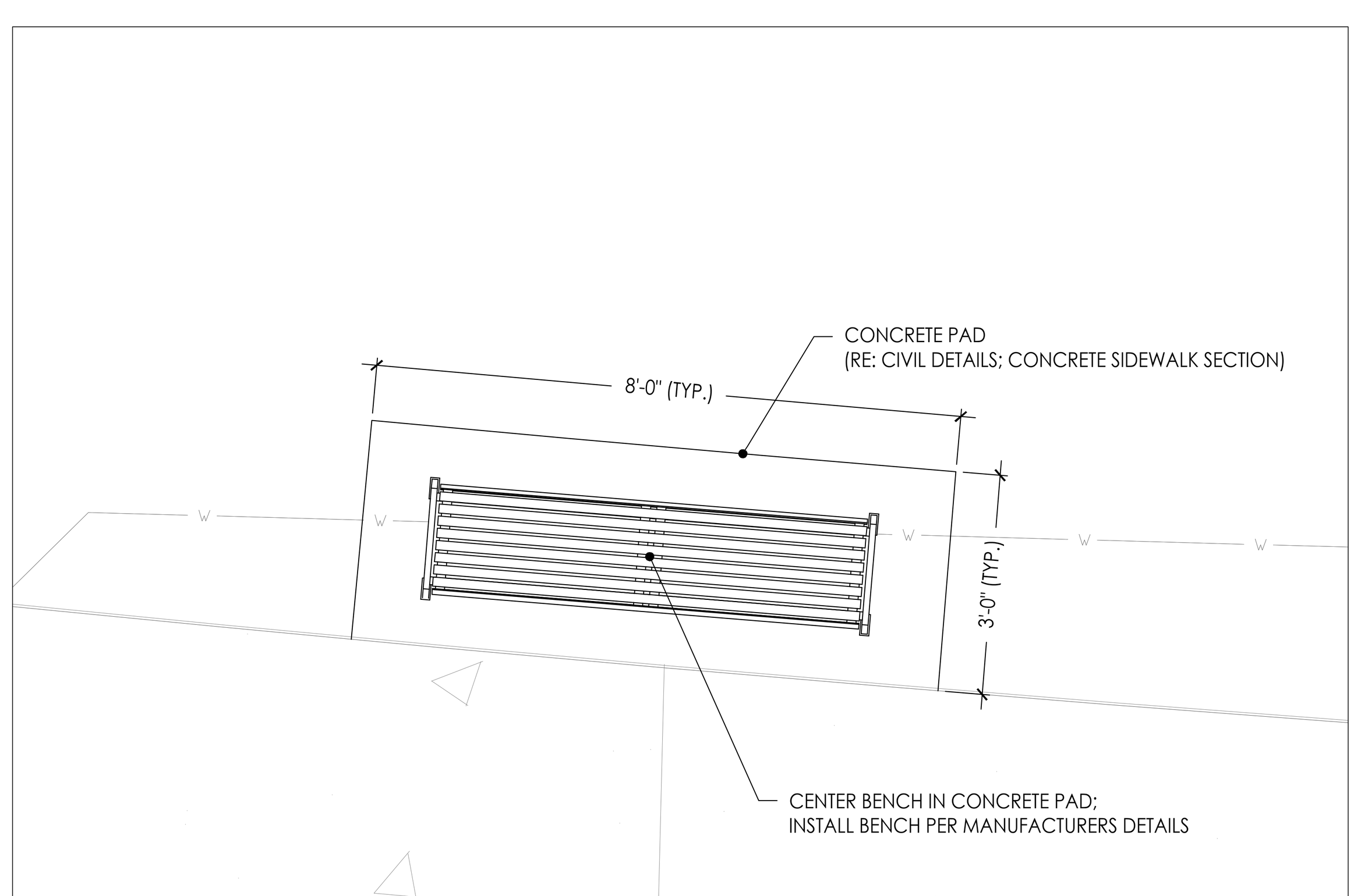
_____ OF _____

ADD ALTERNATES



1 SURFACING & FURNISHINGS PLAN

Scale: 1" = 20'



2 "SITE BENCH" UNIT PRICE ENLARGEMENT

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

SHEET KEYNOTE LEGEND

SURFACING PLAN LEGEND

- **S1** — PLAYGROUND ARTIFICIAL TURF SURFACING
  - SYNTHETIC TURF SURFACING W/ SHOCK ABSORBING PAD MEETING FALL HEIGHT REQUIREMENTS OF PLAY EQUIPMENT
  - RE: SECTION #321820 - PLAYGROUND PROTECTIVE SURFACING
- **S2** — PLAYGROUND RUBBER SURFACING
  - POURED-IN-PLACE RUBBERIZED SURFACING TO MEET SHOCK ABSORBING FALL HEIGHT REQUIREMENTS OF PLAY EQUIPMENT
  - RE: SECTION #321820 - PLAYGROUND PROTECTIVE SURFACING
- **PLNT** — PLANTING BEDS; RE: L200 - LANDSCAPE PLAN (BASE BID)
- CONCRETE SIDEWALK; RE: CIVIL PLANS
- PROVIDE BENCH; RE: SPEC #129300 LAYOUT AND INSTALL BENCH PER MANUFACTURERS DETAILS.

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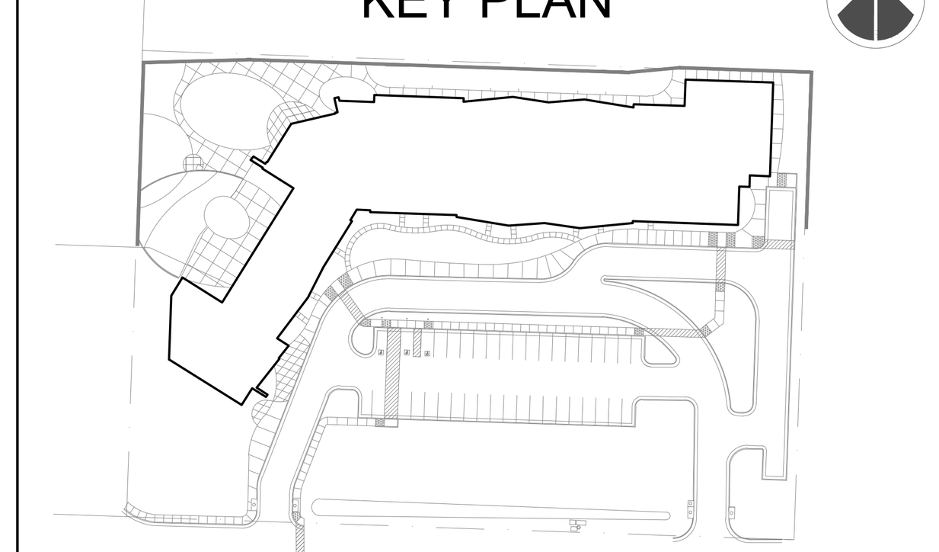
317 SE MAIN
LEE'S SUMMIT, MO 64063
816.207.6010
4436 STATE LINE ROAD
KANSAS CITY, KS 66103
913.371.7933

KEY PLAN



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417.782.7389 fax

100% BID DOCUMENTS

Joplin Early Childhood Center

Joplin Schools

REVISIONS:

#	Description	Date
1	ADDENDUM 002	10.25.2016

STATE OF MISSOURI — LANDSCAPE ARCHITECT — 9.30.16

JOB NO: 1175
BY: MRK
CHECKED BY: BGB
09.30.2016

L100

____ OF ____

PLAY AREA & FURNISHINGS PLAN

6/22/2016 7:50:53 AM

1 **PLAY AREA SURFACING PLAN**

Scale: 1" = 10'

SHEET KEYNOTE LEGEND

SURFACING PLAN LEGEND

S1 — PLAYGROUND ARTIFICIAL TURF SURFACING
- SYNTHETIC TURF SURFACING W/ SHOCK ABSORBING PAD MEETING FALL HEIGHT REQUIREMENTS OF PLAY EQUIPMENT
- RE: SECTION #321820 - PLAYGROUND PROTECTIVE SURFACING

S2 — PLAYGROUND RUBBER SURFACING
- POURED-IN-PLACE RUBBERIZED SURFACING TO MEET SHOCK ABSORBING FALL HEIGHT REQUIREMENTS OF PLAY EQUIPMENT
- RE: SECTION #321820 - PLAYGROUND PROTECTIVE SURFACING

PLNT — PLANTING BEDS; RE: L200 - LANDSCAPE PLAN (BASE BID)

CONCRETE SIDEWALK; RE: CIVIL PLANS

PROVIDE BENCH; RE: SPEC #129300 LAYOUT AND INSTALL BENCH PER MANUFACTURERS DETAILS.

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Joplin Early Childhood Center

Joplin Schools

REVISIONS:

#	Description	Date
1	ADDENDUM 002	10.25.2016

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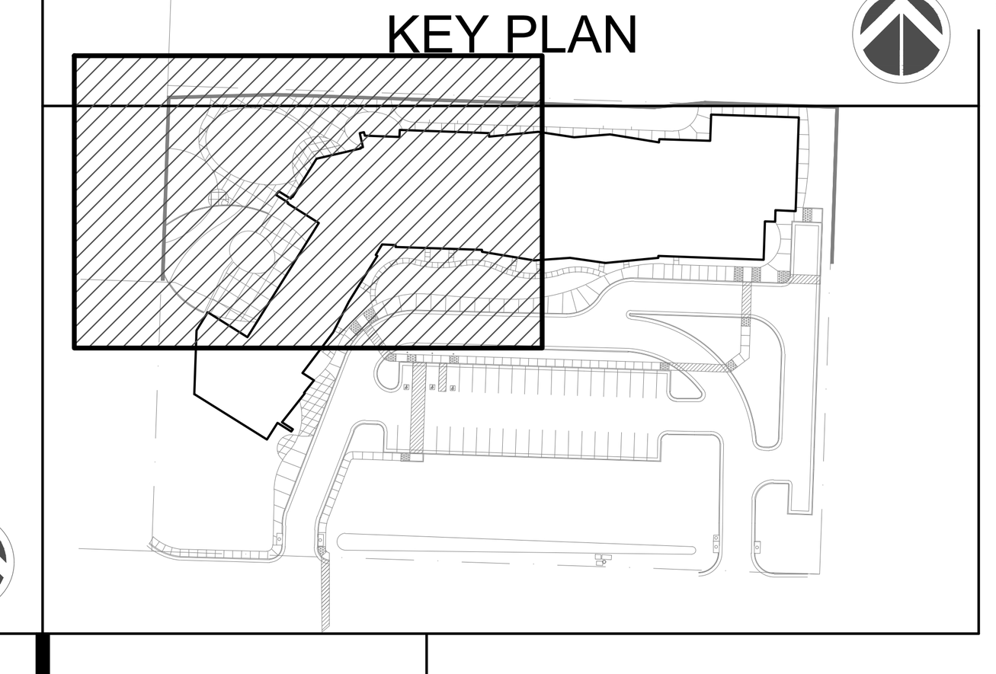
816.207.6019

4436 STATE LINE ROAD
KANSAS CITY, KS 66103
913.371.7933

STATE OF MISSOURI — BOB R. BUSHYHEAD — NUMBER LA-2002003007 — LANDSCAPE ARCHITECT — 9-30-16

KEY PLAN



JOB NO: 1175

BY: MRK

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L101

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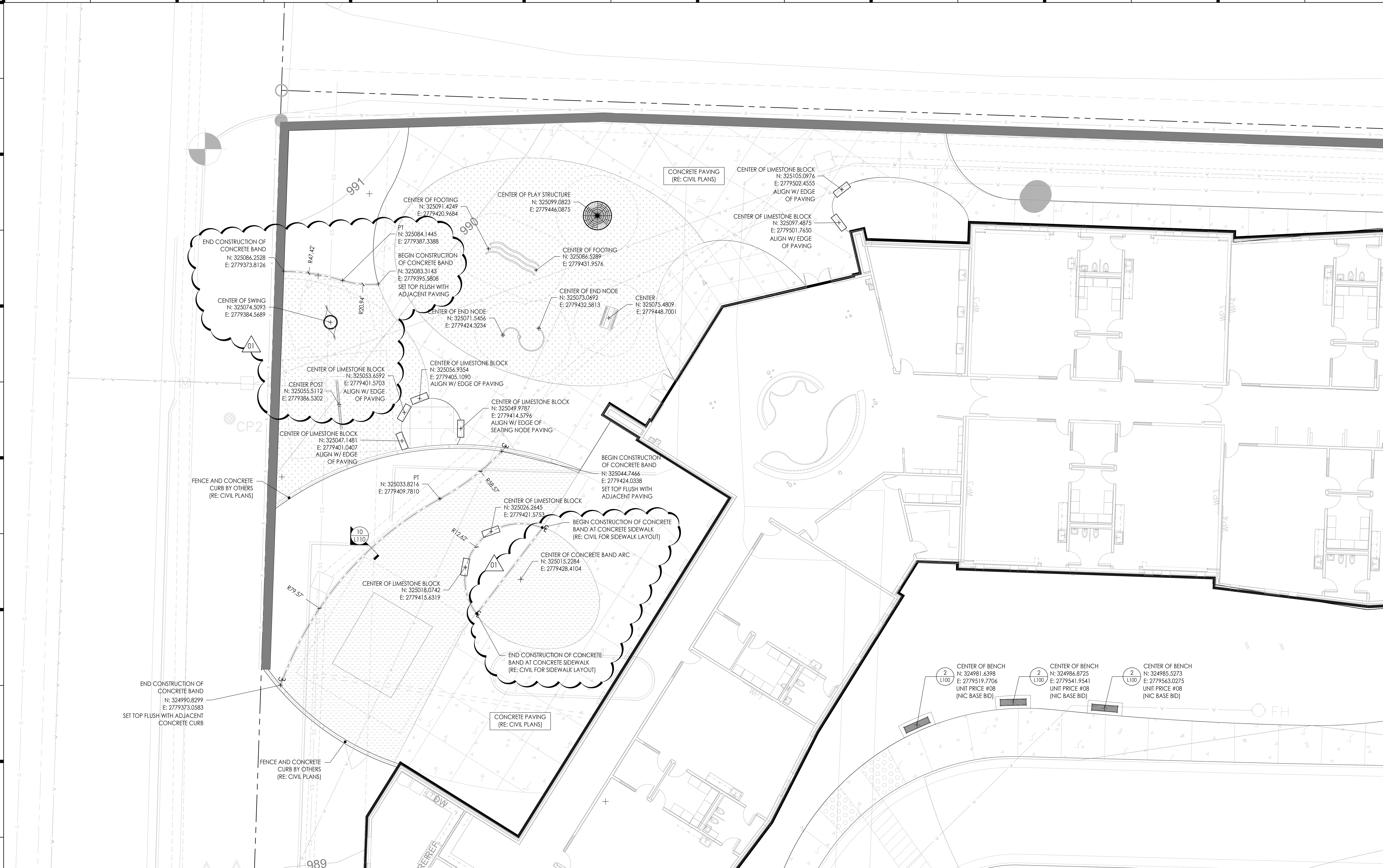
PLAY AREA ENLARGEMENT - SURFACING



1 PLAY AREA LAYOUT PLAN

Scale: 1" = 10'

LAYOUT NOTES

1. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSION
2. CONTRACTOR SHALL ESTABLISH AND MAINTAIN LOCAL HORIZONTAL AND VERTICAL CONTROL BASED ON BENCHMARKS DESCRIBED BY CIVIL. REFER TO C103 FOR TEMPORARY AND PERMANENT BENCHMARKS, AND VERTICAL CONTROL.
3. CONTRACTOR TO PROVIDE SHOP DRAWING OF PLAYGROUND EQUIPMENT LAYOUT FOR APPROVAL. CONFIRM EQUIPMENT LAYOUT AND FALL ZONE LAYOUT IN THE FIELD PRIOR TO INSTALL.
4. ADHERE TO NATIONAL PLAYGROUND SAFETY STANDARDS. REFER TO CPSC HANDBOOK FOR DETAILS.
5. CONCRETE FLATWORK: REFER TO CIVIL PLANS.

SHEET KEYNOTE LEGEND

SITE LAYOUT LEGEND

SYM	ITEM/DESCRIPTION
+	COORDINATE POINT
N: XXXXXXX E: XXXXXXX	COORDINATES
	CENTERLINE
	POINT OF BEGINNING

CONCRETE SIDEWALK BY OTHERS RE: CIVIL PLANS

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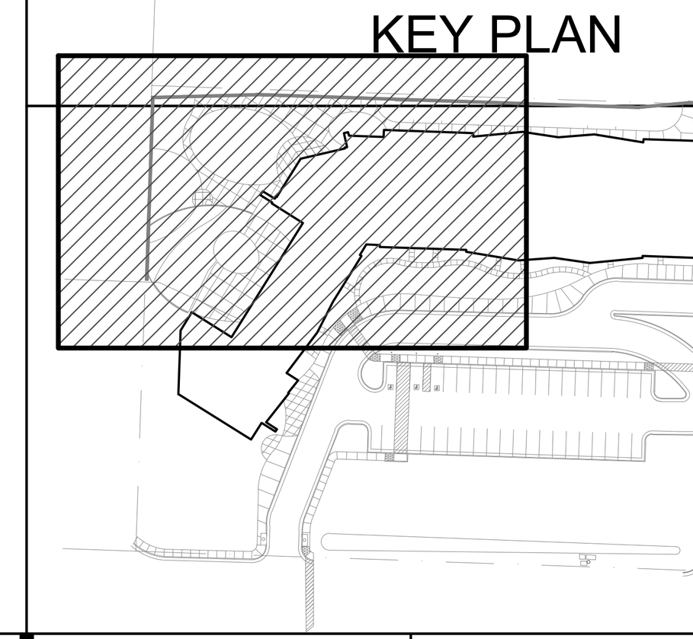
KEY PLAN



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STATE OF MISSOURI LANDSCAPE ARCHITECT 9-30-16

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BY: MRK
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09.30.2016

L102

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PLAY AREA ENLARGEMENT - LAYOUT

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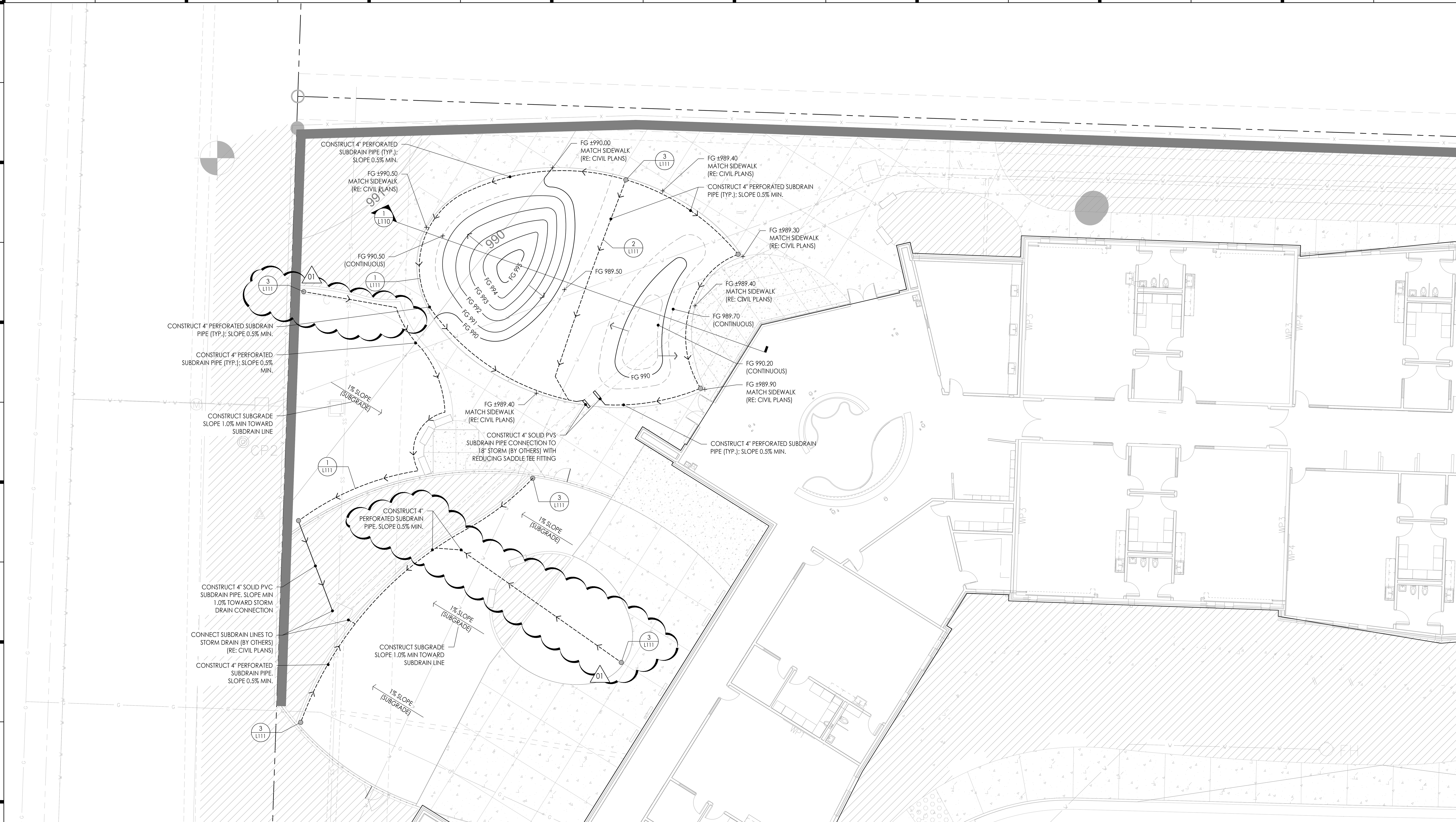

1 PLAY AREA GRADING AND DRAINAGE PLAN

Scale: 1" = 10'

GENERAL NOTES

1. ALL SITE AND UTILITY INFORMATION SHOWN IS BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. VERIFY ALL SITE CONDITIONS, ELEVATIONS, UTILITY LOCATIONS AND DIMENSIONS INCLUDING NEW IMPROVEMENTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. CONTRACTOR SHALL PROTECT ALL SITE IMPROVEMENTS AND UTILITIES. DAMAGE OCCURRING DURING AND AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO INCREASE IN CONTRACT PRICE.
4. ALL DIMENSIONS SHOWN ARE REPRESENTED USING U.S. SURVEY DIMENSION STANDARDS.

GRADING NOTES

1. CONTOUR INTERVAL IS ONE FOOT UNLESS OTHERWISE NOTED.
2. PROTECT UTILITIES, DRAINAGE STRUCTURES, AND OTHER SITE IMPROVEMENTS FROM DAMAGE DURING GRADING ACTIVITIES.
3. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY EXISTING GRADE DISCREPANCIES ON SITE.

SUBDRAINAGE NOTES

1. ALL SUBDRAINAGE COLLECTOR PIPE SHALL BE INSTALLED AT A MINIMUM 0.5% SLOPE UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL RESTORE SUBGRADE TO MEET GRADING AND COMPACTION REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR TO PROTECT DRAIN LINES DURING CONSTRUCTION FROM DEBRIS (INCLUDING SOIL OR GRAVEL MATERIAL OR OTHER TRASH) FROM ENTERING OR BLOCKING LINES.
4. CONTRACTOR TO AVOID TRAFFIC OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
5. COORDINATE DRAINAGE CONNECTION AND INVERTS STORM DRAIN CONSTRUCTION.
6. SUBDRAINAGE LOCATION, LAYOUT, AND SITE CONDITIONS TO BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
7. CONTRACTOR TO COORDINATE DRAINAGE LINES WITH ALL UNDERGROUND UTILITIES OUT IN THE FIELD.

SHEET KEYNOTE LEGEND

SUBDRAINAGE PLAN LEGEND

- PROVIDE 4" PERFORATED HDPE SUBDRAINAGE PER DETAILS: SEE L111 - PLAY AREA - GRADING & DRAINAGE DETAILS (RE: SPEC #321820)
- PROVIDE 4" SOLID PVC SUBDRAINGE PER DETAILS: SEE L111 - PLAY AREA - GRADING & DRAINAGE DETAILS (RE: SPEC #321820)
- SUBGRADE SLOPE TO DRAIN LINES
- CONSTRUCT CLEANOUT (RE: DETAIL 3/L111)
- PLNT — PLANTING BEDS: RE: L200 - LANDSCAPE PLAN (BASE BID)
- CONCRETE SIDEWALK BY OTHERS (RE: CIVIL PLANS)

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Joplin Early Childhood Center
Joplin Schools

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STATE OF MISSOURI — LANDSCAPE ARCHITECT — LA-2002000007 — 9.30.16

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PLAY AREA ENLARGEMENT - GRADING & DRAINAGE

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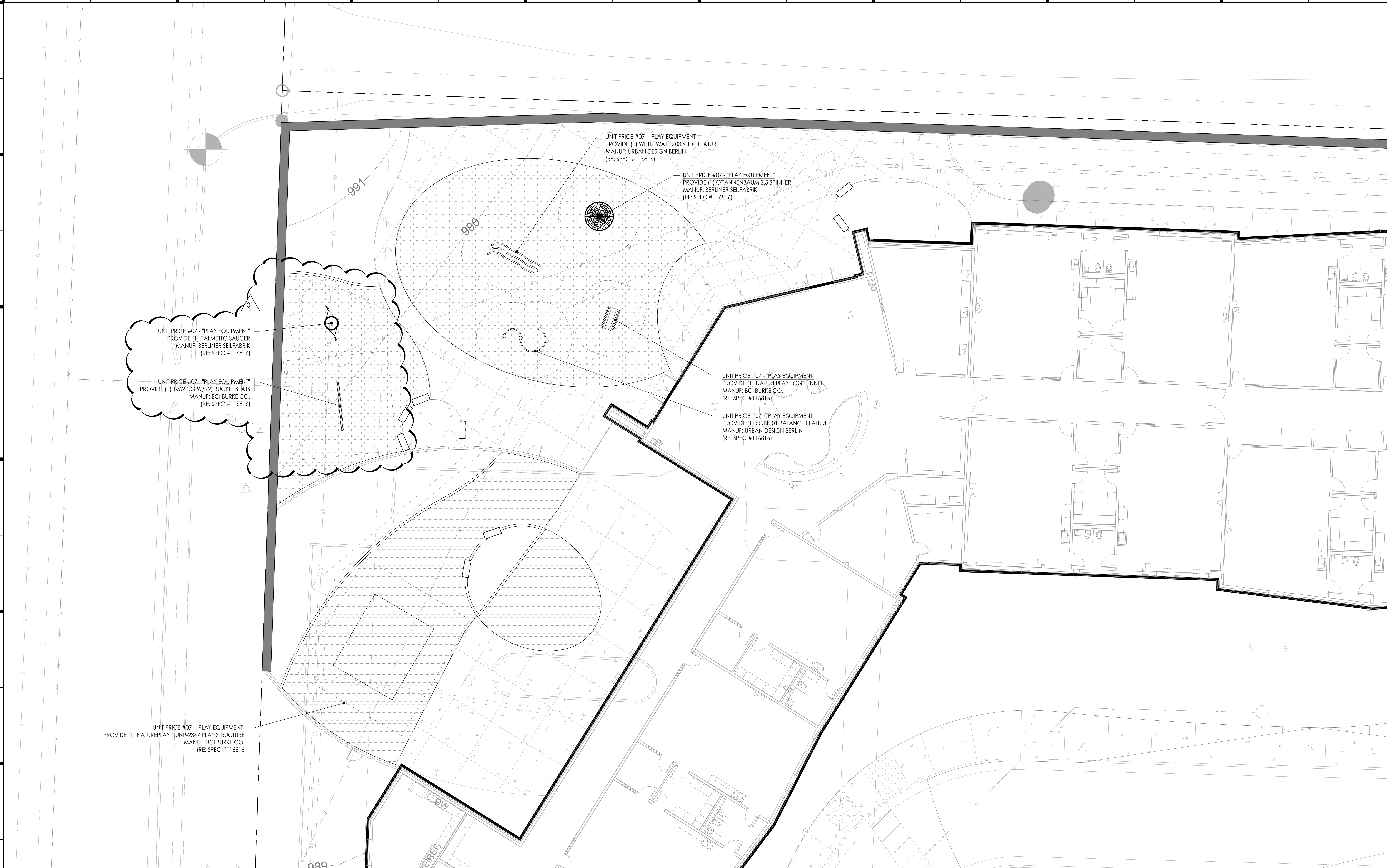

1 PLAY AREA FURNISHINGS PLAN

Scale: 1" = 10'

PLAYGROUND EQUIPMENT NOTES

1. CONTRACTOR TO PROVIDE SHOP DRAWING OF PLAYGROUND EQUIPMENT AND FALL ZONE LAYOUT FOR APPROVAL.
2. CONTRACTOR TO PROVIDE FURNISHINGS AND REQUIRED FOOTINGS AS INDICATED ON THE PLAN AND DETAILS
3. ALL PLAYGROUND EQUIPMENT TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND DETAILS.
4. FINAL LAYOUT TO BE INSPECTED BY CERTIFIED CPSI INSPECTOR.
5. **ALL PLAY EQUIPMENT SHOWN TO BE PROVIDED AS UNIT PRICE. "PLAY EQUIPMENT" UNIT PRICE #07 TO INCLUDE: EQUIPMENT, FOOTINGS, AND INSTALLATION PER MANUFACTURERS DETAILS. (NIC BASE BID).**

SHEET KEYNOTE LEGEND

CONCRETE SIDEWALK BY OTHERS
RE: CIVIL PLANS

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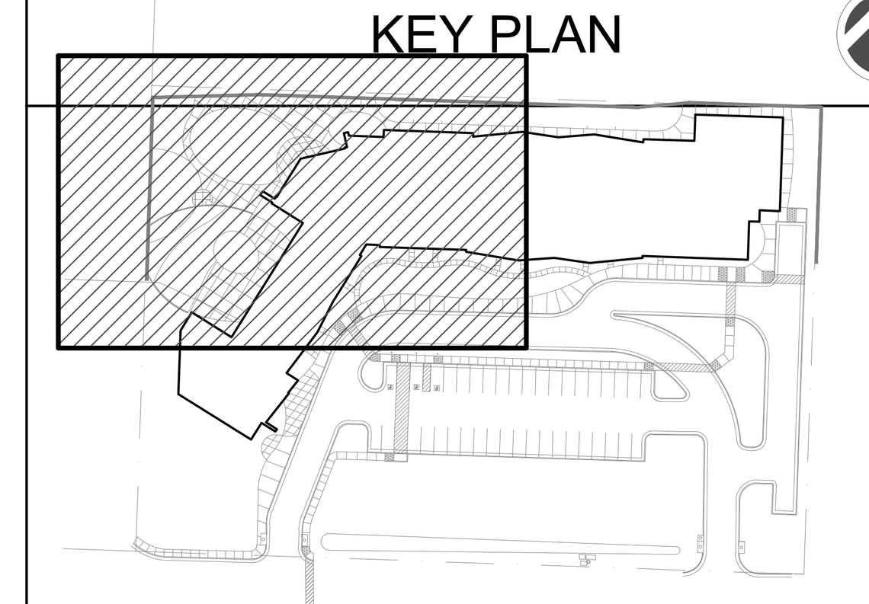
BOB R. BUSHYHEAD
NUMBER
LA-2002003007
LANDSCAPE ARCHITECT
9.30.16

KEY PLAN



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09.30.2016

L104

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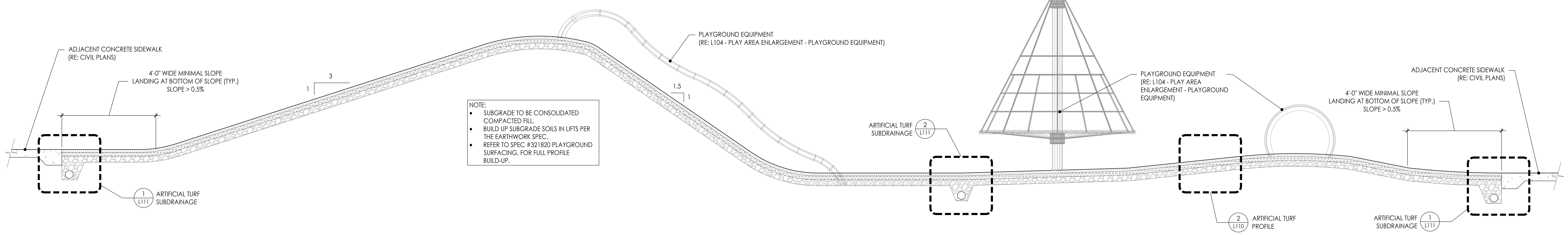
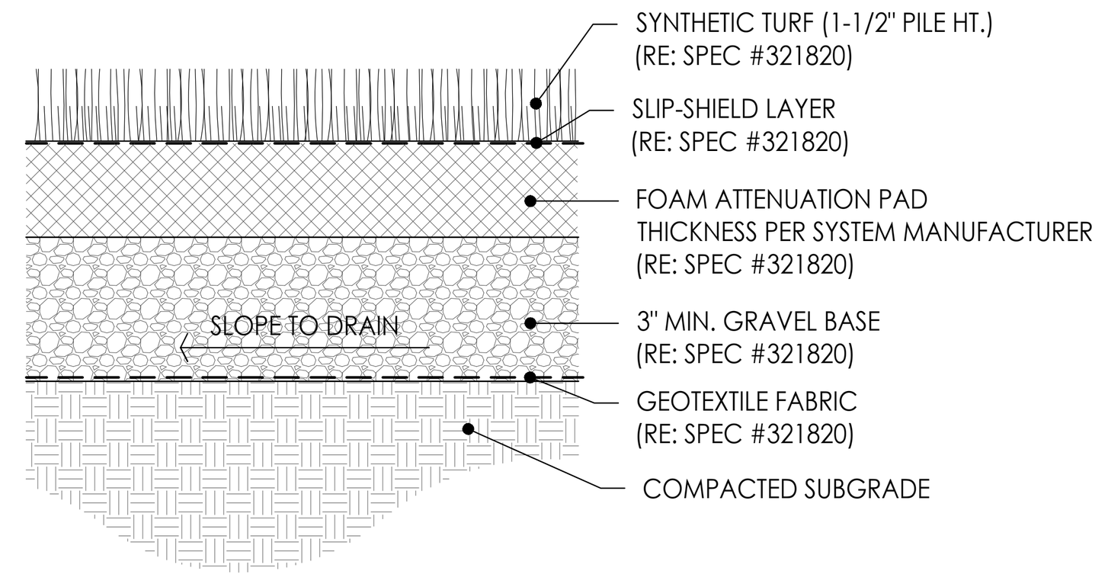
PLAY AREA ENLARGEMENT - PLAYGROUND EQUIPMENT

SHEET KEYNOTE LEGEND

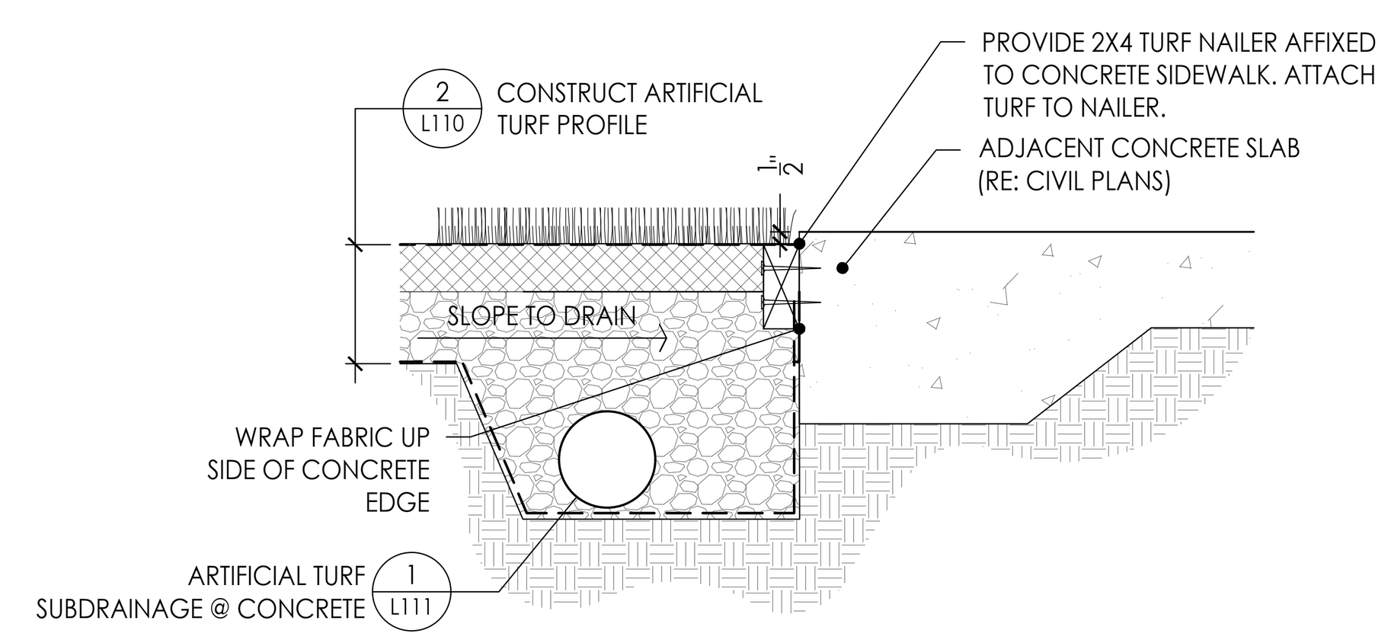


1 **CHALLENGE PLAYGROUND SECTION**
Scale: 1/2" = 1'-0"

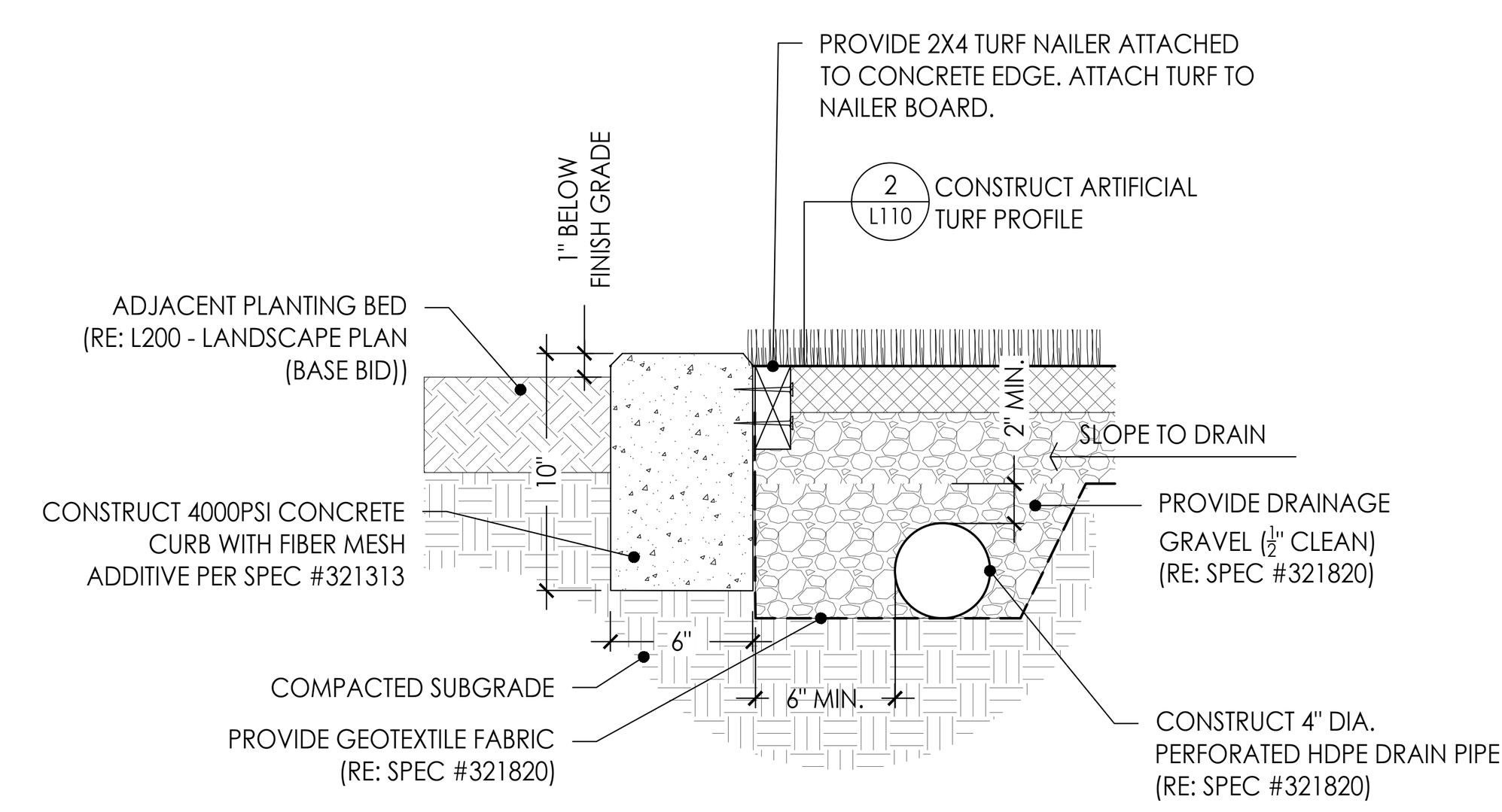
SYNTHETIC TURF PRODUCT INFORMATION
PRODUCT NAME: SYNLAWN PLAYGROUND PREMIUM WITH FALL HEIGHT RATED FOAM PAD
MANUFACTURER: SYNLAWN® 2680 ABUTMENT ROAD SE DALTON, GEORGIA 30721 866-SYNLAWN WWW.SYNLAWN.COM
SUBMITTALS: CONTRACTOR TO PROVIDE PRODUCT INFORMATION AND SHOP DRAWINGS FOR COMPLETE SYNLAWN PLAYGROUND PREMIUM TURF SYSTEM. INCLUDE CONNECTION AND TIE-DOWN DETAILS AND WITH VERIFICATION OF THE STANDARD BASE PROFILE. INCLUDE WARRANTY INFORMATION.



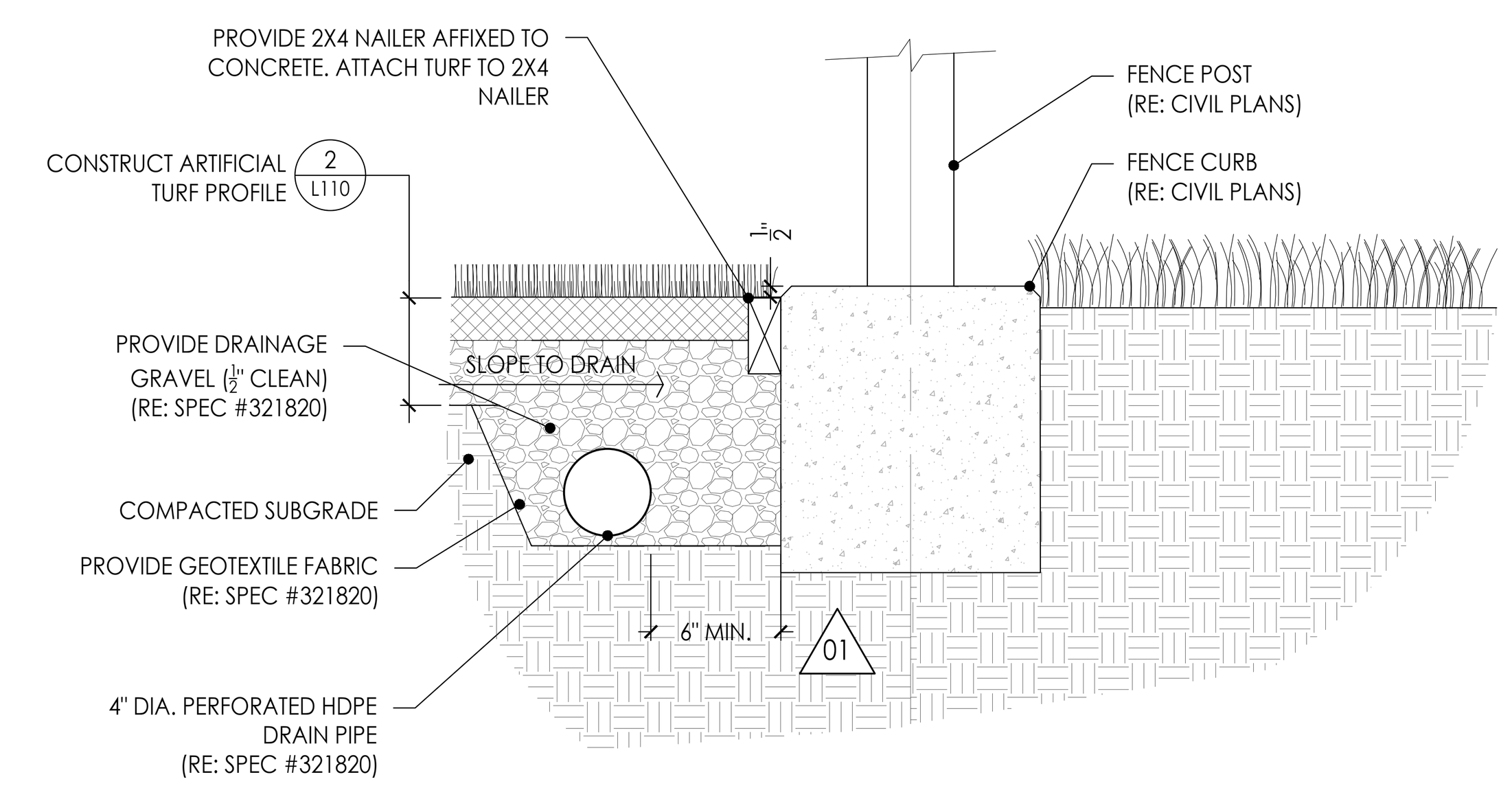
2 **ARTIFICIAL TURF PROFILE**
Scale: 3" = 1'-0"



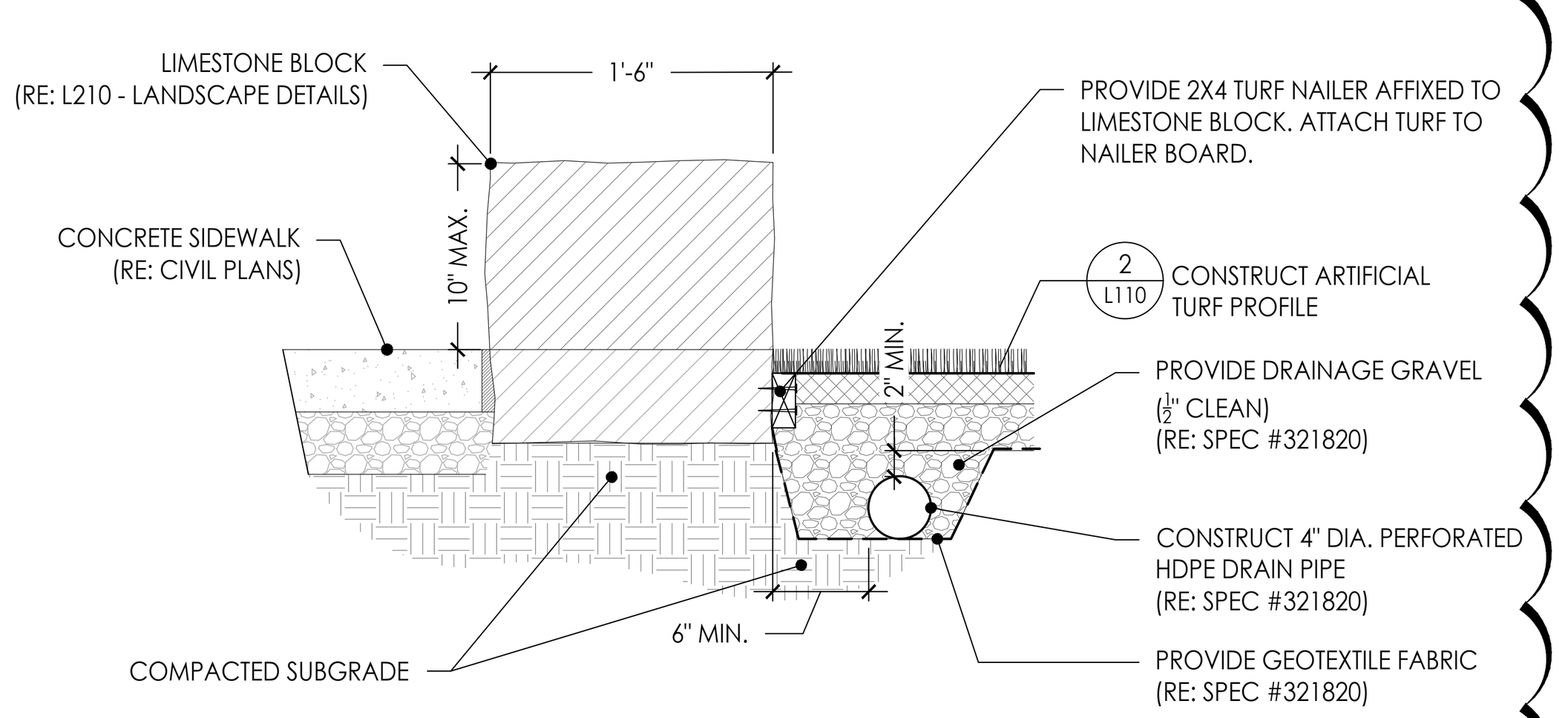
3 **ARTIFICIAL TURF @ CONCRETE EDGE**
Scale: 1 1/2" = 1'-0"



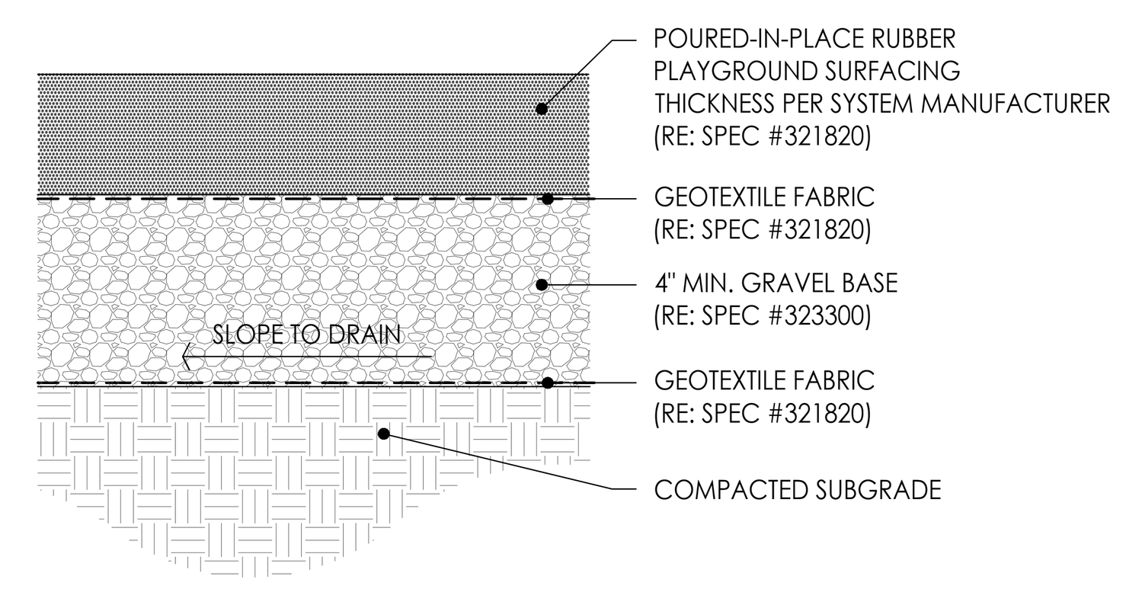
4 **ARTIFICIAL TURF EDGE @ PLANTING BED**
Scale: 1 1/2" = 1'-0"
01



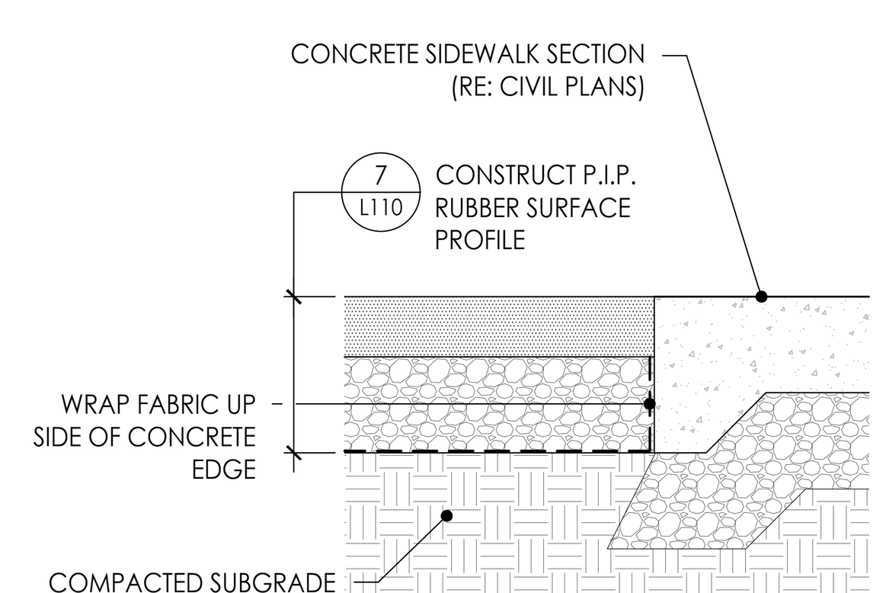
5 **ARTIFICIAL TURF @ FENCE**
Scale: 1 1/2" = 1'-0"



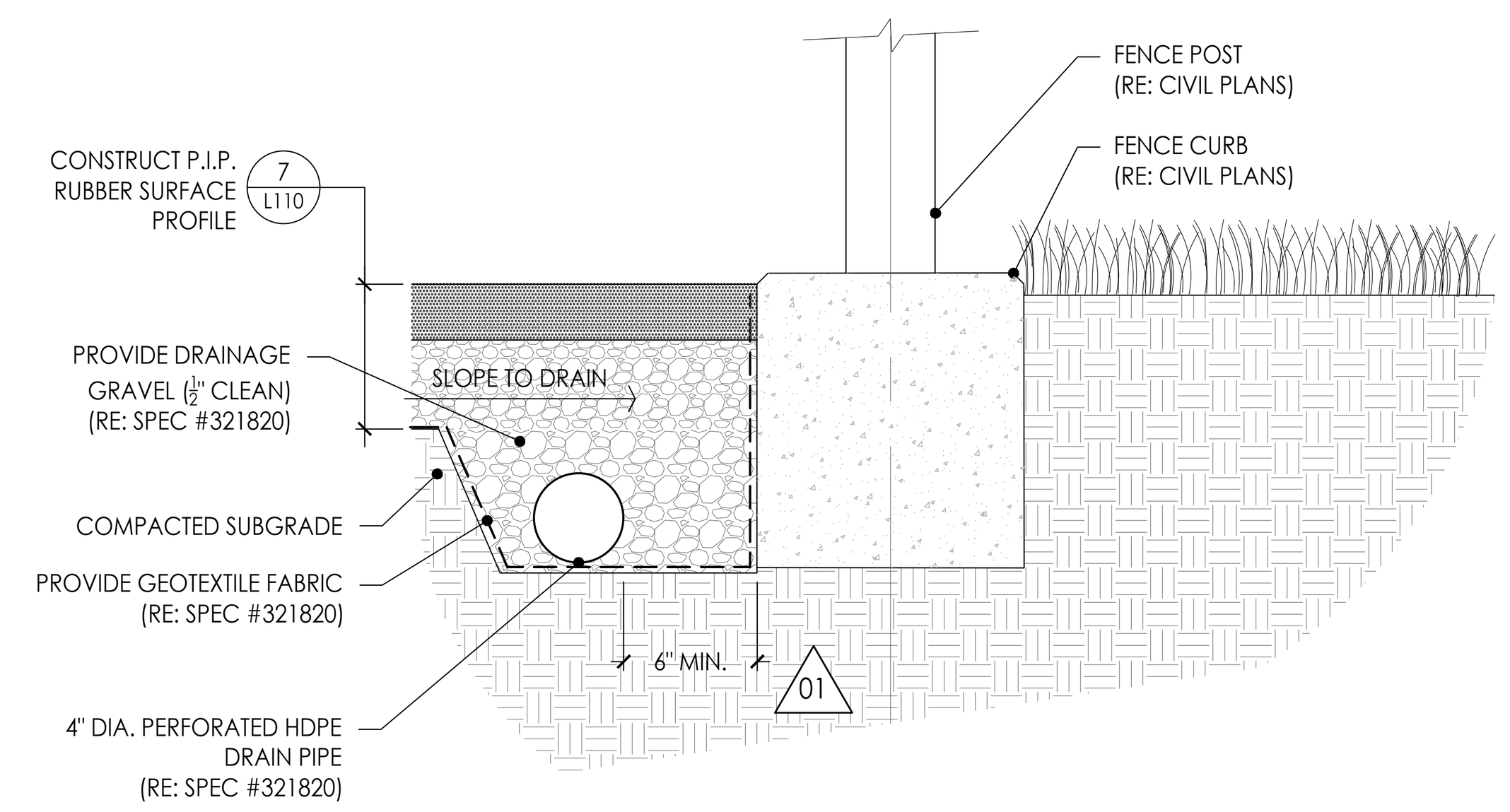
6 **ARTIFICIAL TURF @ LIMESTONE BLOCK**
Scale: 1" = 1'-0"
02



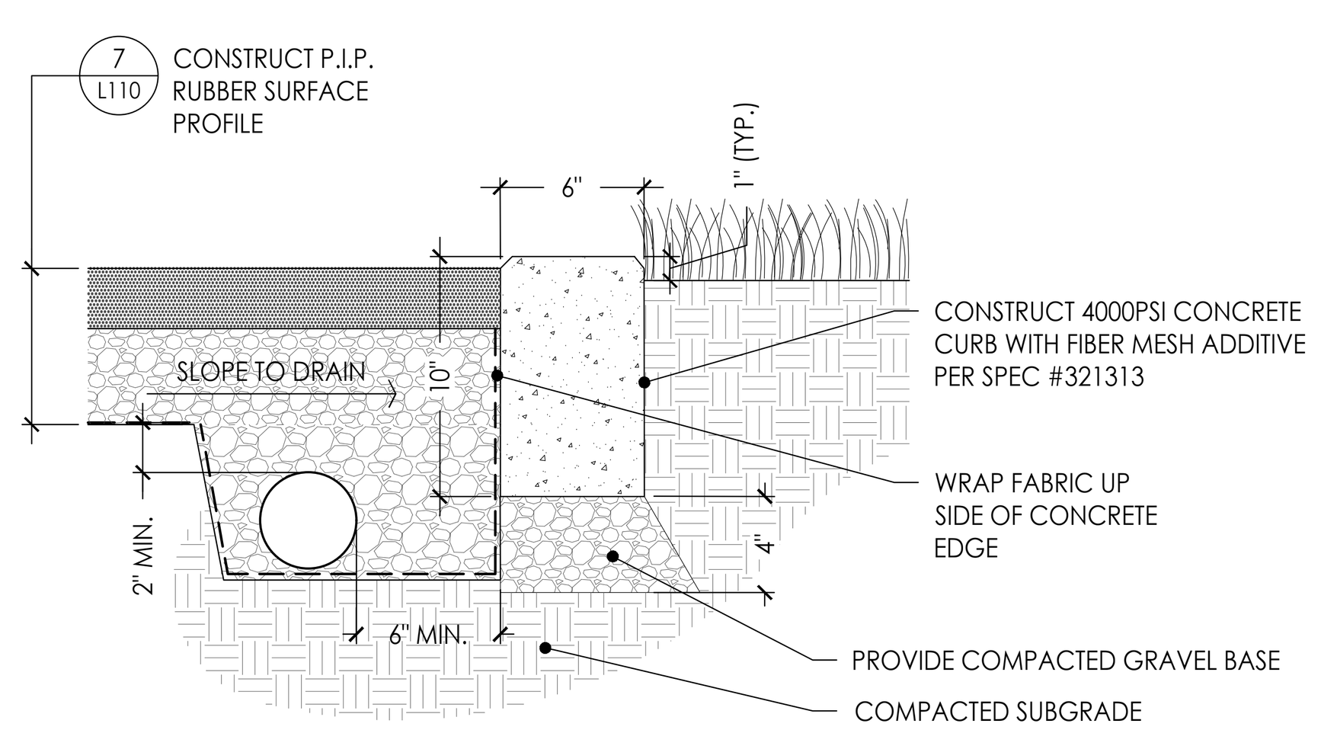
7 **POURED-IN-PLACE RUBBER SURFACING PROFILE**
Scale: 3" = 1'-0"



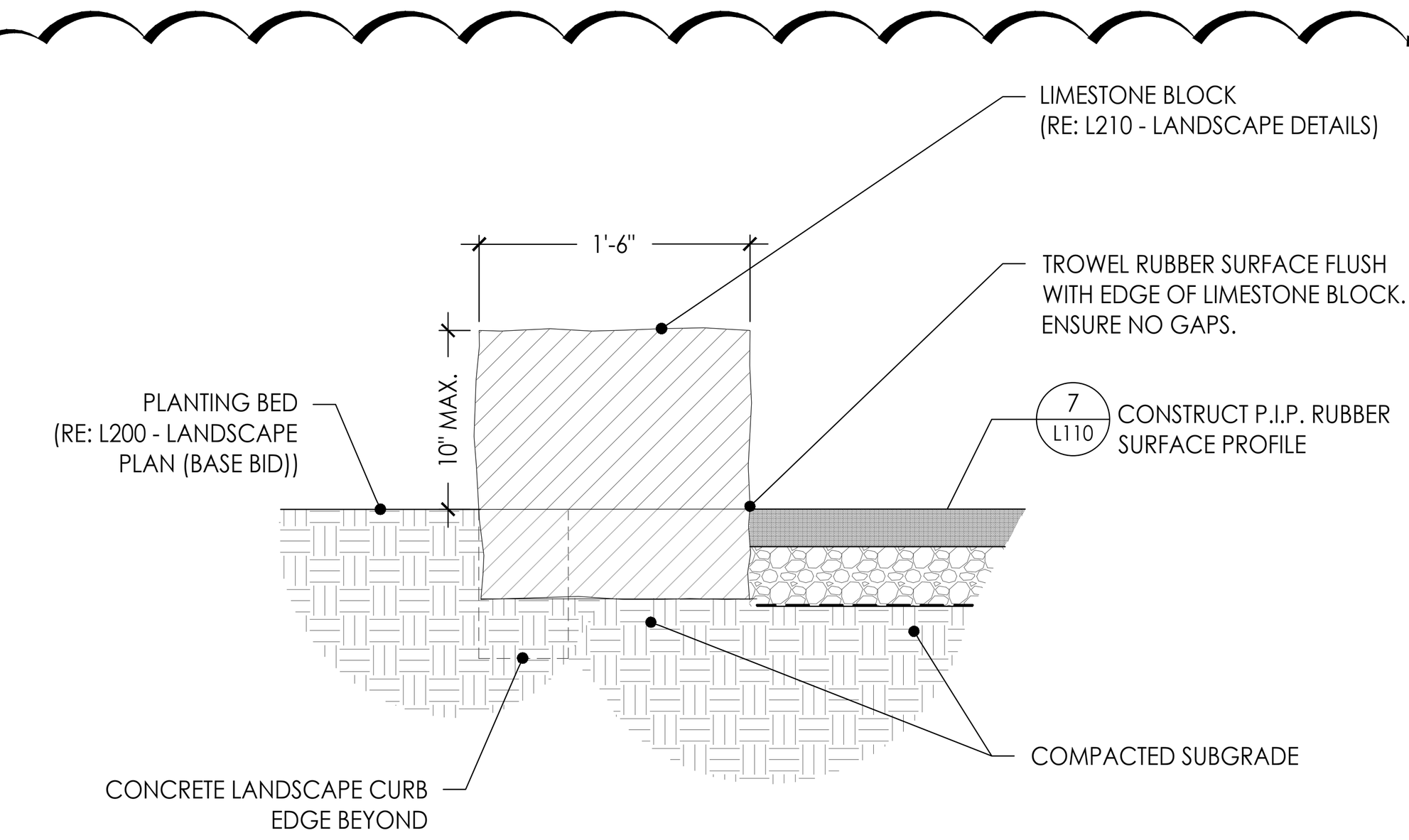
8 **RUBBER SURFACE @ CONCRETE EDGE**
Scale: 1 1/2" = 1'-0"



9 **P.I.P. RUBBER SURFACE @ FENCE**
Scale: 1 1/2" = 1'-0"



10 **P.I.P. RUBBER SURFACE @ LANDSCAPE CURB**
Scale: 1 1/2" = 1'-0"
01



11 **P.I.P. RUBBER SURFACE @ LIMESTONE BLOCK**
Scale: 1" = 1'-0"
02

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STATE OF MISSOURI
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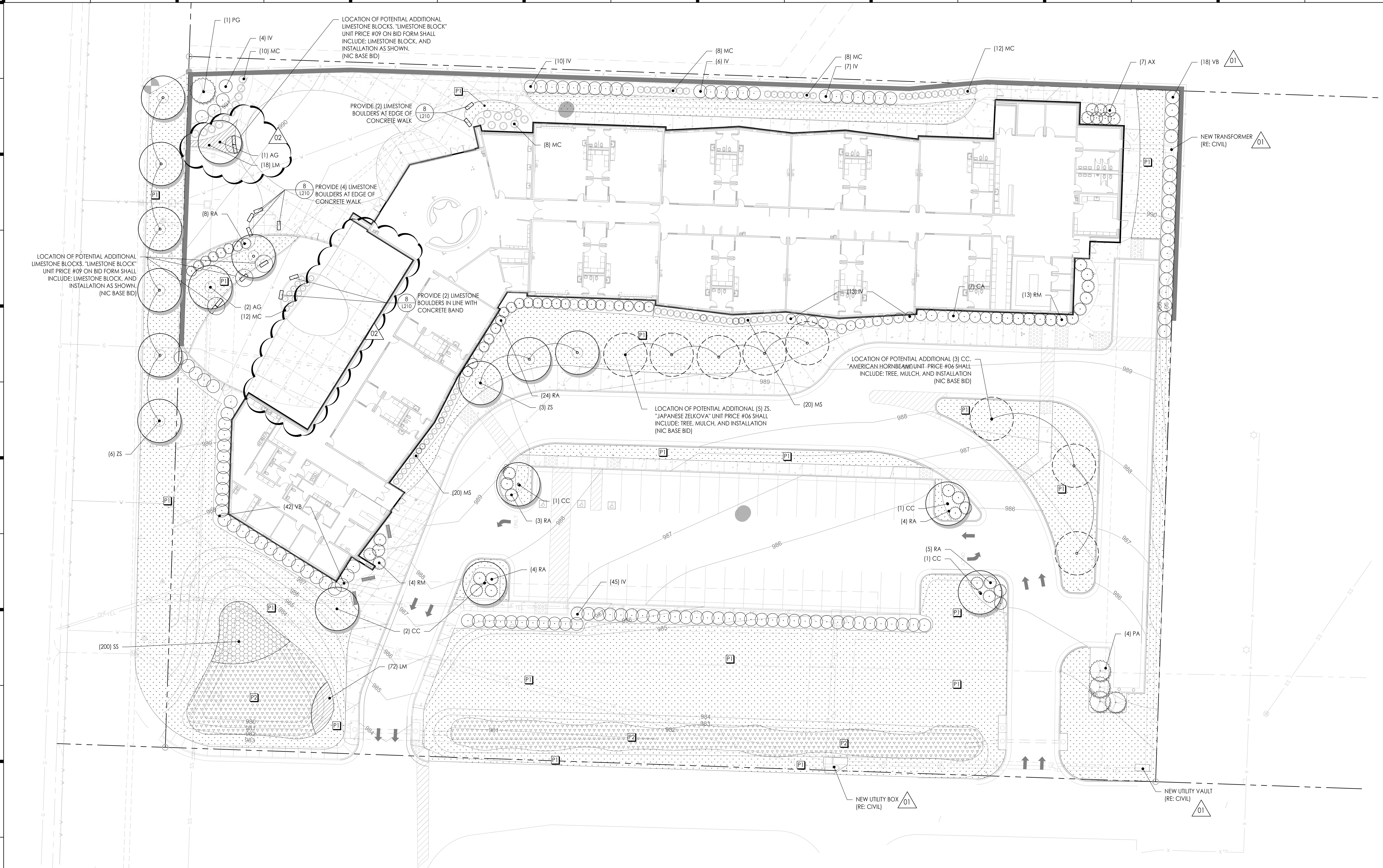
PLAY AREA DETAILS



1 PLANTING PLAN - BASE BID

Scale: 1" = 20'


AMERICAN HORNBEAM


LACEBARK ELM


JAPANESE TREE LILAC


JAPANESE ZELKOVA

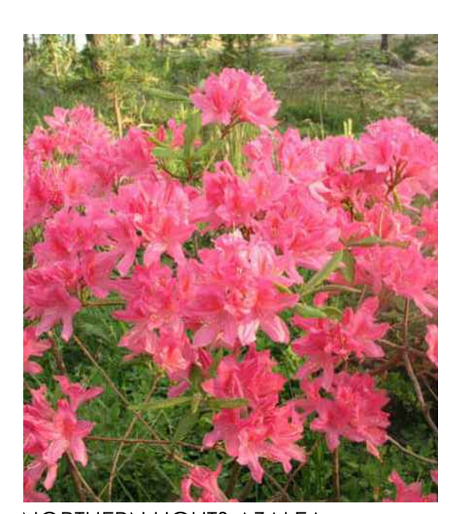

ROBIN HILL SERVICEBERRY


COLUMNAR NORWAY SPRUCE


BAKERI BLUE SPRUCE

2 SITE TREES

Scale:


NORTHERN LIGHTS AZALEA


RUBY SPICE SUMMERSWEET


GRO-LOW SUMAC


PALM SEDGE


MUHLY GRASS


RHODODENDRON


HENRY'S GARNET SWEETSPIRE


MOHAWK VIBURNUM


MAIDEN GRASS

3 SITE SHRUBS & GRASSES

Scale:

SHEET KEYNOTE LEGEND

PLANTING SCHEDULE

SYM.	KEY	COMMON NAME / *BOTANICAL NAME*	SIZE & REMARKS
		SHADE/STREET TREES	
	CC	American Hornbeam *Carpinus caroliniana*	2" cal.
	ZS	Japanese Zelkova *Zelkova serratta*	2" cal.
		ORNAMENTAL TREE	
	AG	Lacebark Elm *Ulmus parvifolia*	1.5" cal.
	AR	Robin Hill Serviceberry *Amelanchier x grandiflora 'Robin Hill'*	1.5" cal.
	SR	Japanese Tree Lilac Syringa reticulata	1.5" cal.
		EVERGREEN TREE	
	PA	Columnar Norway Spruce *Picea abies 'Cupressina'*	5-6' ht.
	PG	Bakeri Blue Spruce *Picea pungens 'Bacheri'*	5-6' ht.
		EVERGREEN SHRUB	
	AX	Azalea	3 gal. @ 48" o.c.
	RM	Nova Zembla Rhododendron *Rhododendron x 'Nova Zembla'*	3 gal. @ 60" o.c.
		DECIDUOUS SHRUB	
	CA	Ruby Spice Summersweet *Clethra alnifolia 'Ruby Spice'*	3 gal. @ 60" o.c.
	IV	Henry's Garnet Sweetspire *Itea virginica 'Henry's Garnet'*	3 gal. @ 48" o.c.
	RA	Gro-Low Sumac *Rhus aromatica 'Gro-Low'*	3 gal. @ 48" o.c.
	VB	Mohawk Viburnum *Viburnum x burkwoodii 'Mohawk'*	3 gal. @ 60" o.c.
		ORNAMENTAL GRASS	
	CM	Palm Sedge *Carex muskingumensis*	1 gal. @ 24" o.c.
	MS	Morning Light Maiden Grass *Miscanthus sinensis 'Morning Light'*	1 gal. @ 36" o.c.
	MC	Muhly Grass *Muhlenbergia capillaris*	1 gal. @ 36" o.c.
		PERENNIAL/GROUNDCOVER	
P2	33%	Baptisia	4" pot @ 18" o.c.
	33%	Coneflower	4" pot @ 18" o.c.
	33%	Blue Flag Iris	4" pot @ 18" o.c.
	HH	Hosta	1 gal. @ 36" o.c.
	LM	Big Blue Liriope *Liriope muscari 'Big Blue'*	1 gal. @ 18" o.c.
	SS	Autumn Joy Sedum *Sedum spectabile 'Autumn Joy'*	1 gal. @ 18" o.c.
P1		Turfgrass	Sod

LANDSCAPE PLAN SCOPE OF WORK

1. THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF ALL PLANT MATERIAL TO BE INSTALLED BY THE LANDSCAPE CONTRACTOR. REFER TO **SPEC 329300 - LANDSCAPE** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK.
2. PLANTING BEDS TO RECEIVE 12" DEPTH TOPSOIL PREP, PRE AND POST-PLAN FERTILIZER APPLICATION, 3" OF MULCH AND EDGES OF BEDS TO BE CULTIVATED.
3. TURF AREAS TO RECEIVE 6" TOPSOIL PREP, PRE AND POST-PLANT FERTILIZER APPLICATIONS.

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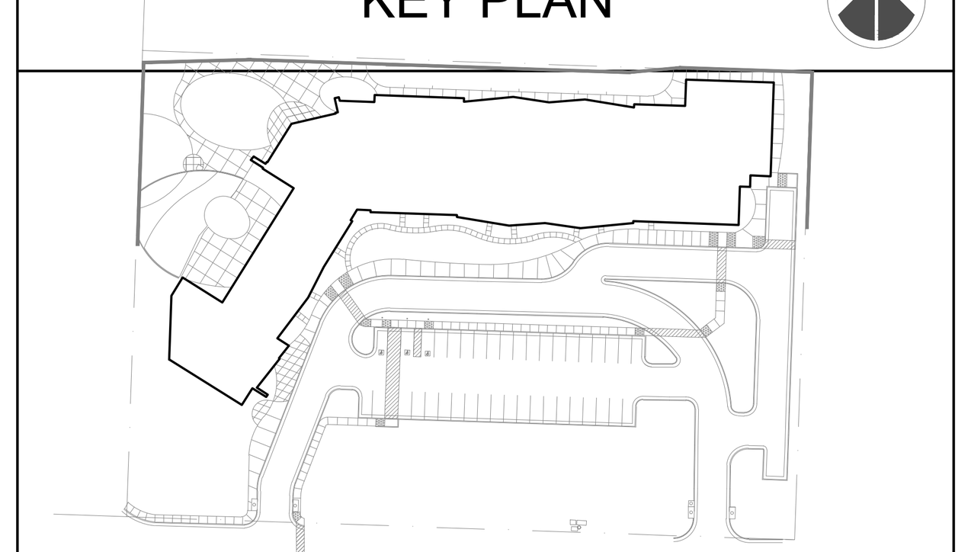
KEY PLAN



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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
01	ADDENDUM 001	10.14.2016
02	ADDENDUM 002	10.25.2016

JOB NO: 1175
BY: JRK
CHECKED BY: BGB
16

L200

___ OF ___

LANDSCAPE PLAN (BASE BID)

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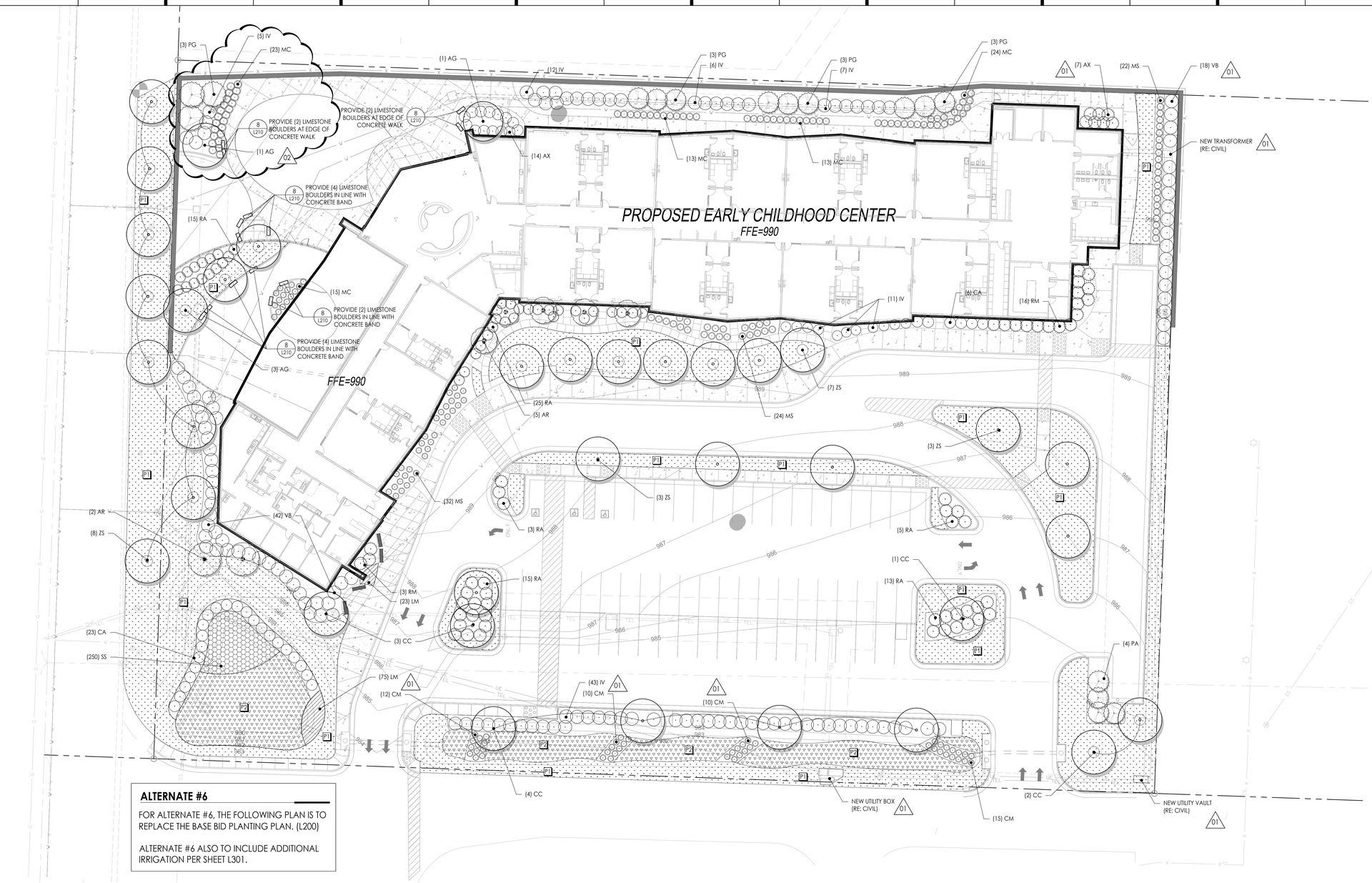

ALTERNATE #6

FOR ALTERNATE #6, THE FOLLOWING PLAN IS TO REPLACE THE BASE BID PLANTING PLAN. (L200)

ALTERNATE #6 ALSO TO INCLUDE ADDITIONAL IRRIGATION PER SHEET L301.

1 ALTERNATE #6 - PLANTING PLAN

Scale: 1" = 20'


AMERICAN HORNBEAM


LACEBARK ELM


JAPANESE TREE LILAC


JAPANESE ZELKOVA


ROBIN HILL SERVICEBERRY


COLUMNAR NORWAY SPRUCE


BAKERI BLUE SPRUCE

2 SITE TREES

Scale:


NORTHERN LIGHTS AZALEA


RUBY SPICE SUMMERSWEET


GRO-LOW SUMAC


PALM SEDGE


MUHLY GRASS


RHODODENDRON


HENRY'S GARNET SWEETSPIRE


MOHAWK VIBURNUM


MAIDEN GRASS

3 SITE SHRUBS & GRASSES

Scale:

SHEET KEYNOTE LEGEND

PLANTING SCHEDULE

SYM.	KEY	COMMON NAME *BOTANICAL NAME*	SIZE & REMARKS
	SHADE/STREET TREES		
	CC	American Hornbeam *Carpinus caroliniana*	2" cal.
	ZS	Japanese Zelkova *Zelkova serratta*	2" cal.
	ORNAMENTAL TREE		
	AG	Lacebark Elm *Ulmus parvifolia*	1.5" cal.
	AR	Robin Hill Serviceberry *Amelanchier x grandiflora 'Robin Hill'*	1.5" cal.
	SR	Japanese Tree Lilac *Syringa reticulata*	1.5" cal.
	EVERGREEN TREE		
	PA	Columnar Norway Spruce *Picea abies 'Cupressina'*	5-6' ht.
	PG	Bakeri Blue Spruce *Picea pungens 'Bacheri'*	5-6' ht.
	EVERGREEN SHRUB		
	AX	Azalea	3 gal. @ 48" o.c.
	RM	Nova Zembla Rhododendron *Rhododendron x 'Nova Zembla'*	3 gal. @ 60" o.c.
	DECIDUOUS SHRUB		
	CA	Ruby Spice Summersweet *Clethra alnifolia 'Ruby Spice'*	3 gal. @ 60" o.c.
	IV	Henry's Garnet Sweetspire *Itea virginica 'Henry's Garnet'*	3 gal. @ 48" o.c.
	RA	Gro-Low Sumac *Rhus aromatica 'Gro-Low'*	3 gal. @ 48" o.c.
	VB	Mohawk Viburnum *Viburnum x burkwoodii 'Mohawk'*	3 gal. @ 60" o.c.
	ORNAMENTAL GRASS		
	CM	Palm Sedge *Carex muskingumensis*	1 gal. @ 24" o.c.
	MS	Morning Light Maiden Grass *Miscanthus sinensis 'Morning Light'*	1 gal. @ 36" o.c.
	MC	Muhly Grass *Muhlenbergia capillaris*	1 gal. @ 36" o.c.
	PERENNIAL/GROUNDCOVER		
P1	33%	Baptisia	4" pot @ 18" o.c.
P2	33%	Coneflower	4" pot @ 18" o.c.
	33%	Blue Flag Iris	4" pot @ 18" o.c.
	HH	Hosta	1 gal. @ 36" o.c.
	LM	Big Blue Liriope *Liriope muscari 'Big Blue'*	1 gal. @ 18" o.c.
	SS	Autumn Joy Sedum *Sedum spectabile 'Autumn Joy'*	1 gal. @ 18" o.c.
P1		Turfgrass	Sod

LANDSCAPE PLAN SCOPE OF WORK

1. THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF ALL PLANT MATERIAL TO BE INSTALLED BY THE LANDSCAPE CONTRACTOR. REFER TO **SPEC 329300 - LANDSCAPE** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK.
2. PLANTING BEDS TO RECEIVE 12" DEPTH TOPSOIL PREP, PRE AND POST-PLAN FERTILIZER APPLICATION, 3" OF MULCH AND EDGES OF BEDS TO BE CULTIVATED.
3. TURF AREAS TO RECEIVE 6" TOPSOIL PREP, PRE AND POST-PLANT FERTILIZER APPLICATIONS.

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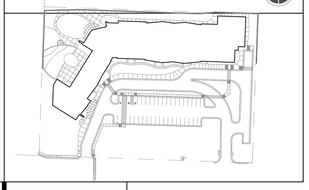
KEY PLAN



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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
01	ADDENDUM 001	10.14.2016
02	ADDENDUM 002	10.25.2016

STATE OF MISSOURI
BRENT G. SHEFFIELD
Number 2002001007
LANDSCAPE ARCHITECT
9-30-16

JOB NO: 1175
BY:MRK
CHECKED BY: BGB
09.30.2016

L202

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LANDSCAPE PLAN ALTERNATES

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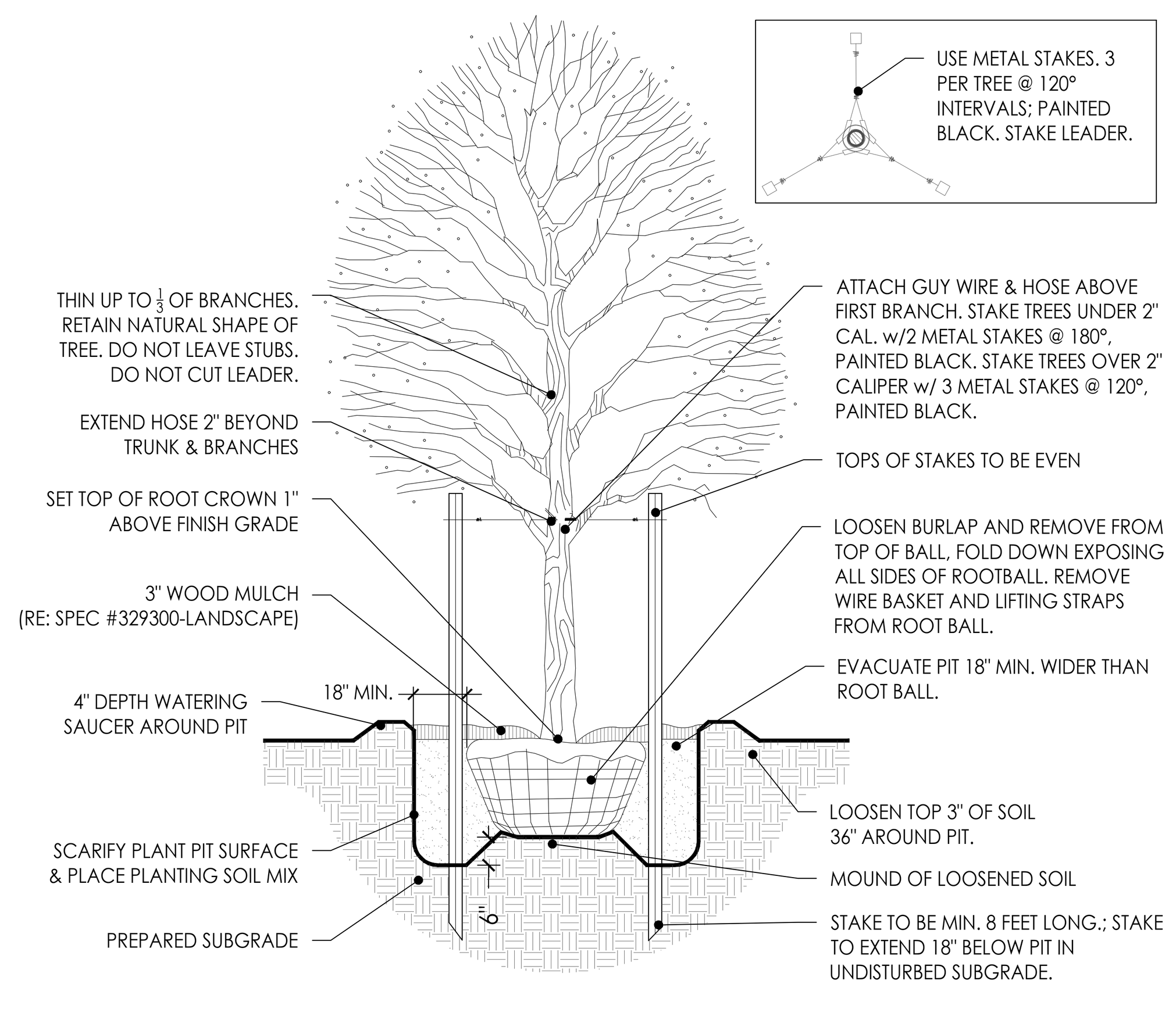
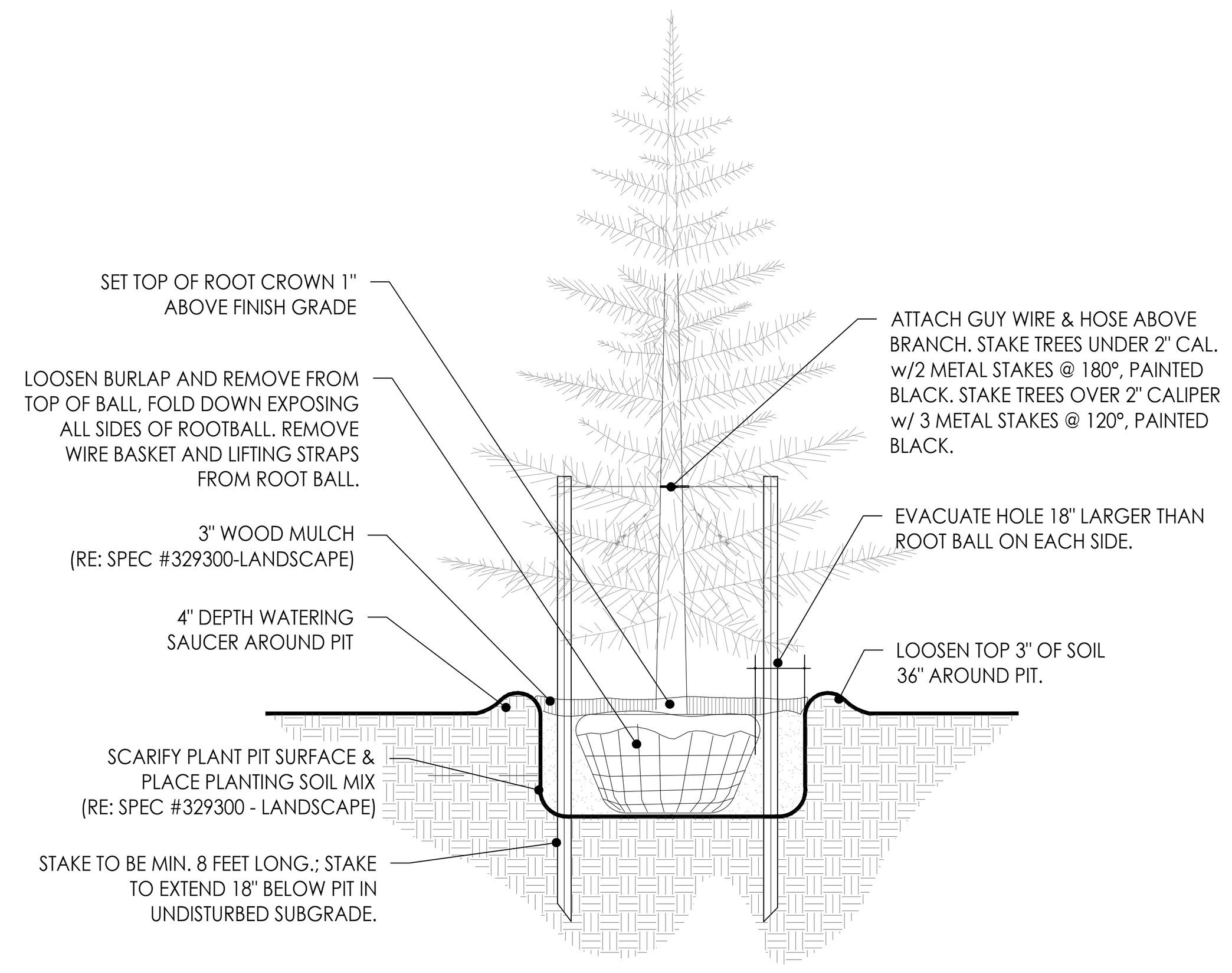
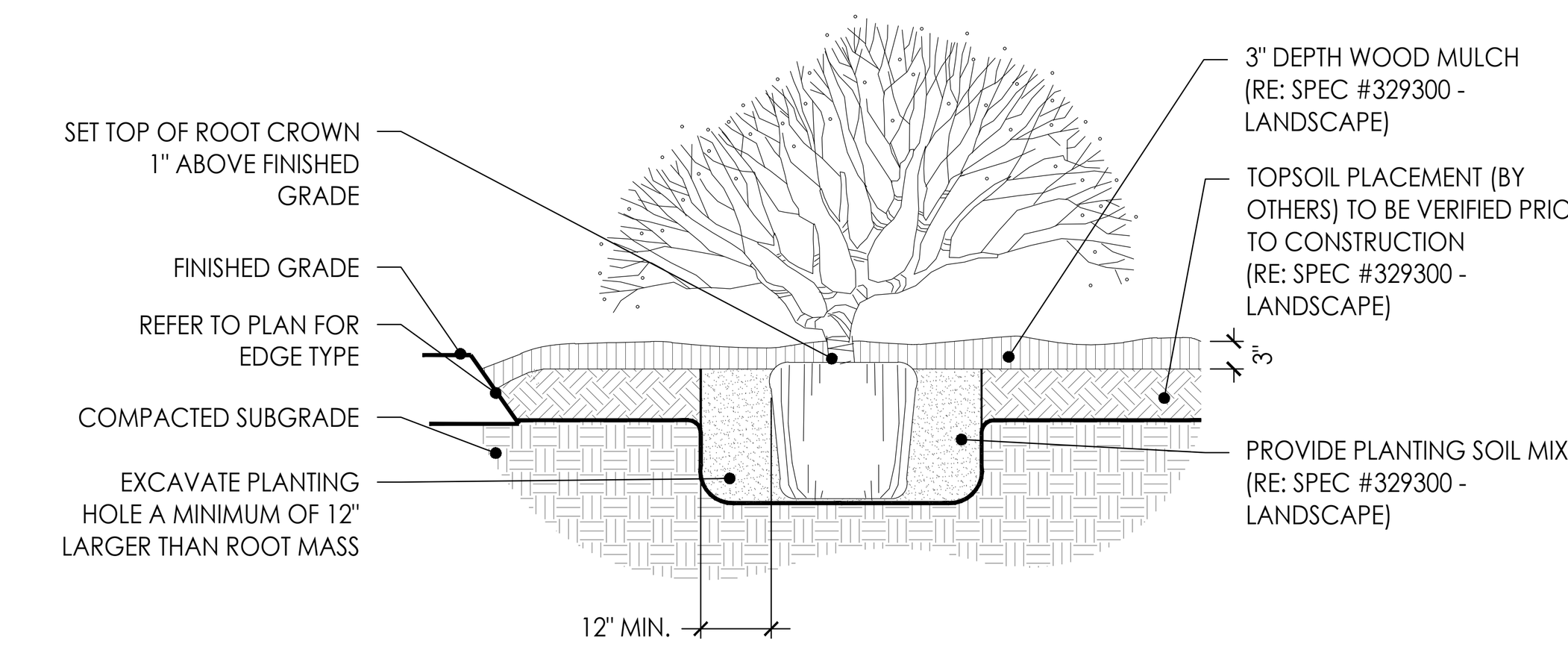


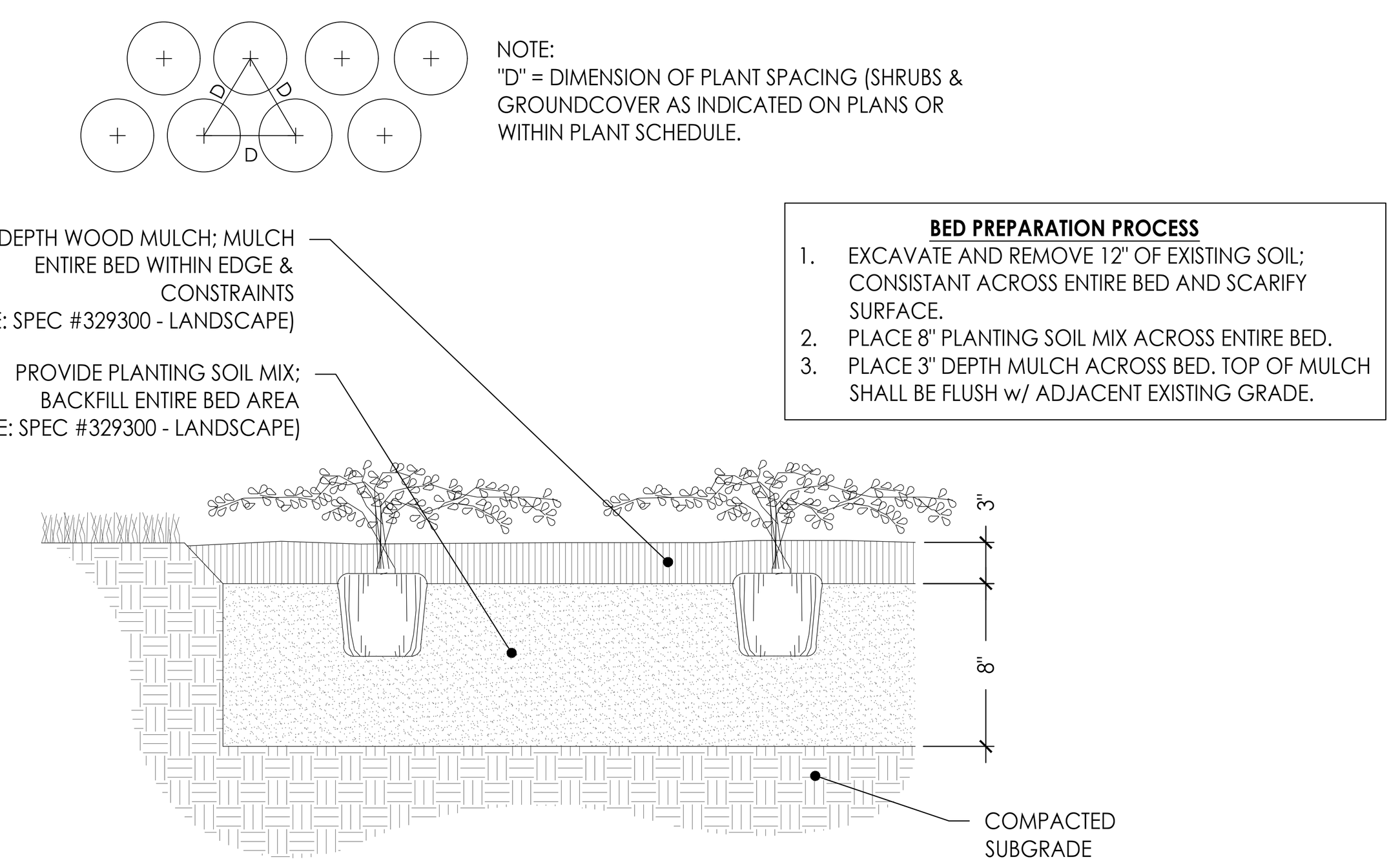
1 DECIDUOUS TREE PLANTING DETAIL (TYP.)
Scale: 3/8" = 1'-0"



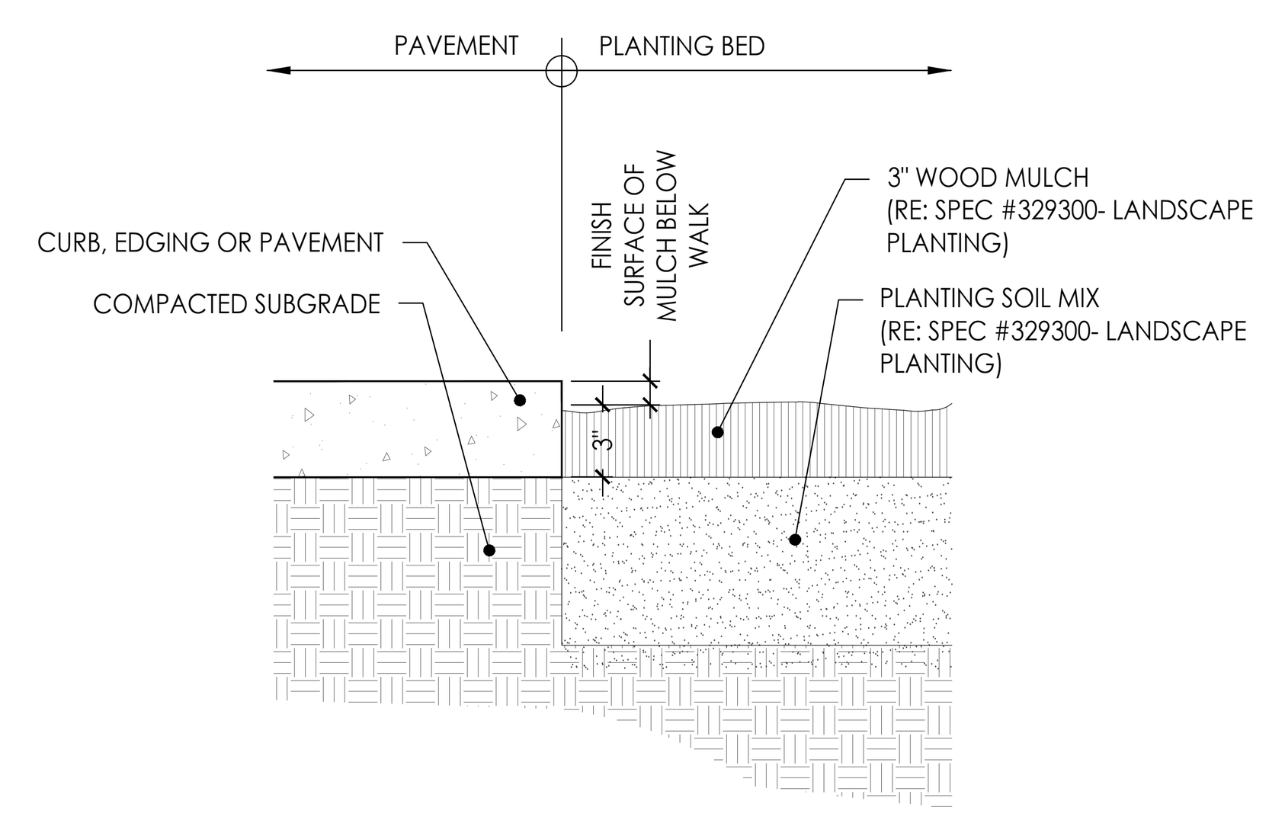
2 EVERGREEN TREE PLANTING DETAIL (TYP.)
Scale: 3/8" = 1'-0"



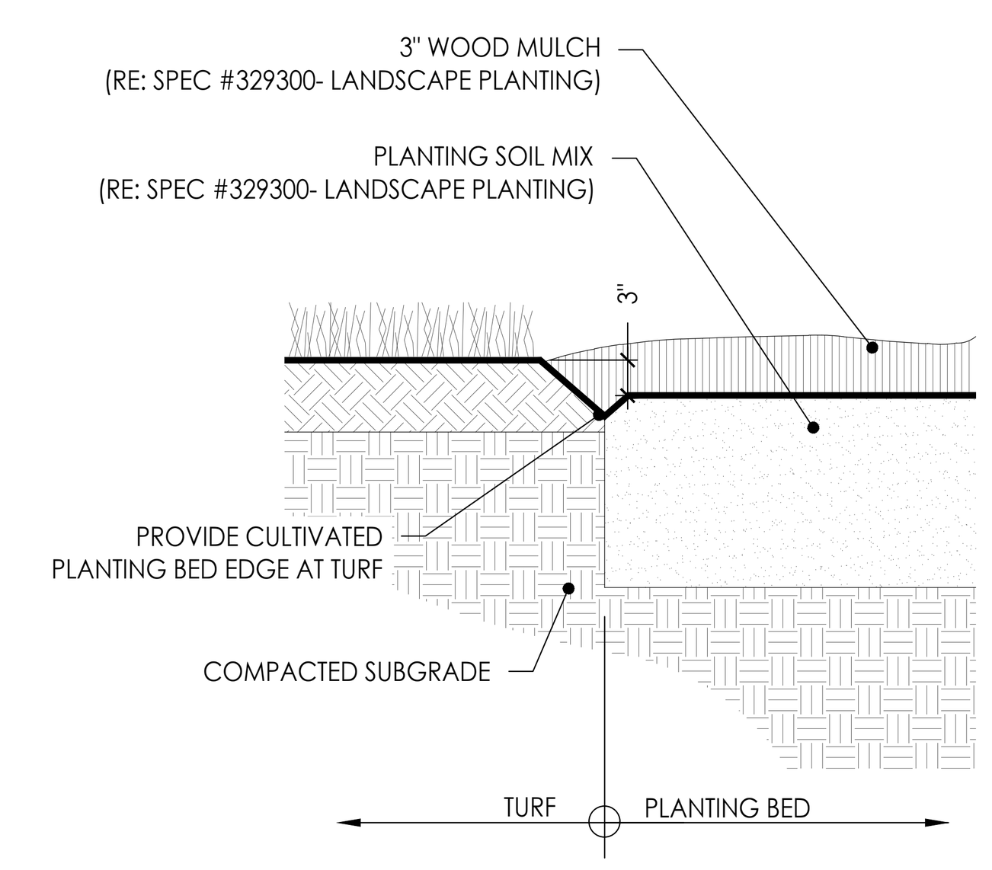
3 SHRUB PLANTING DETAIL (TYP.)
Scale: 3/4" = 1'-0"



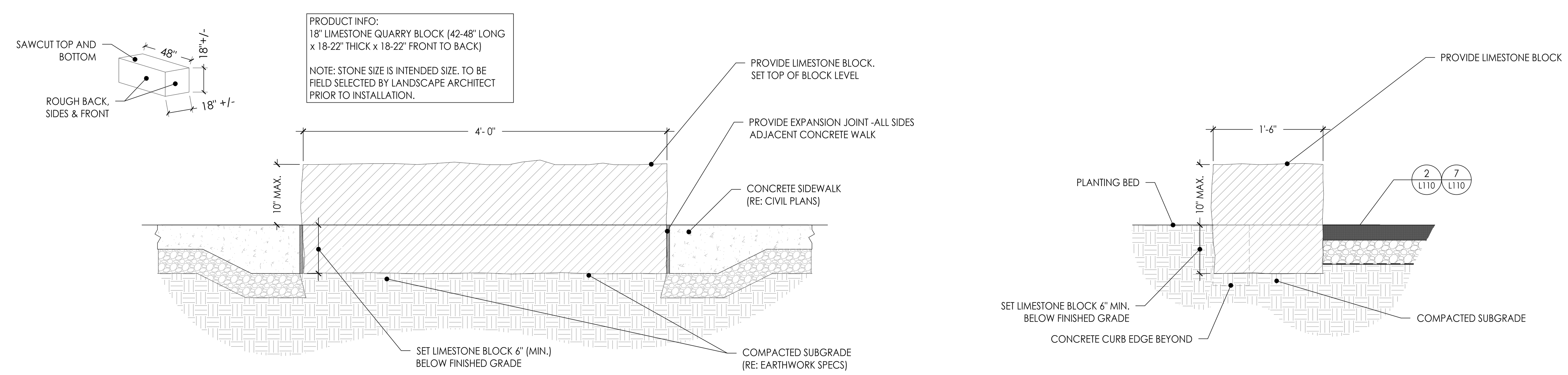
4 GROUNDCOVER PLANTING DETAIL (TYP.)
Scale: 1 1/2" = 1'-0"



5 PLANTING BED @ CONCRETE (TYP.)
Scale: 1 1/2" = 1'-0"



6 PLANTING BED CULTIVATED EDGE
Scale: 1 1/2" = 1'-0"



8 LIMESTONE BLOCK DETAILS
Scale: 1" = 1'-0"
01

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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
01	ADDENDUM 002	10.25.2016

STATE OF MISSOURI
BOB R. BUSHYHEAD
NUMBER
LA-2002003007
LANDSCAPE ARCHITECT
9.30.16

JOB NO: 1175
BY:MRK
CHECKED BY: BGB
09.30.2016

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L210

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LANDSCAPE DETAILS

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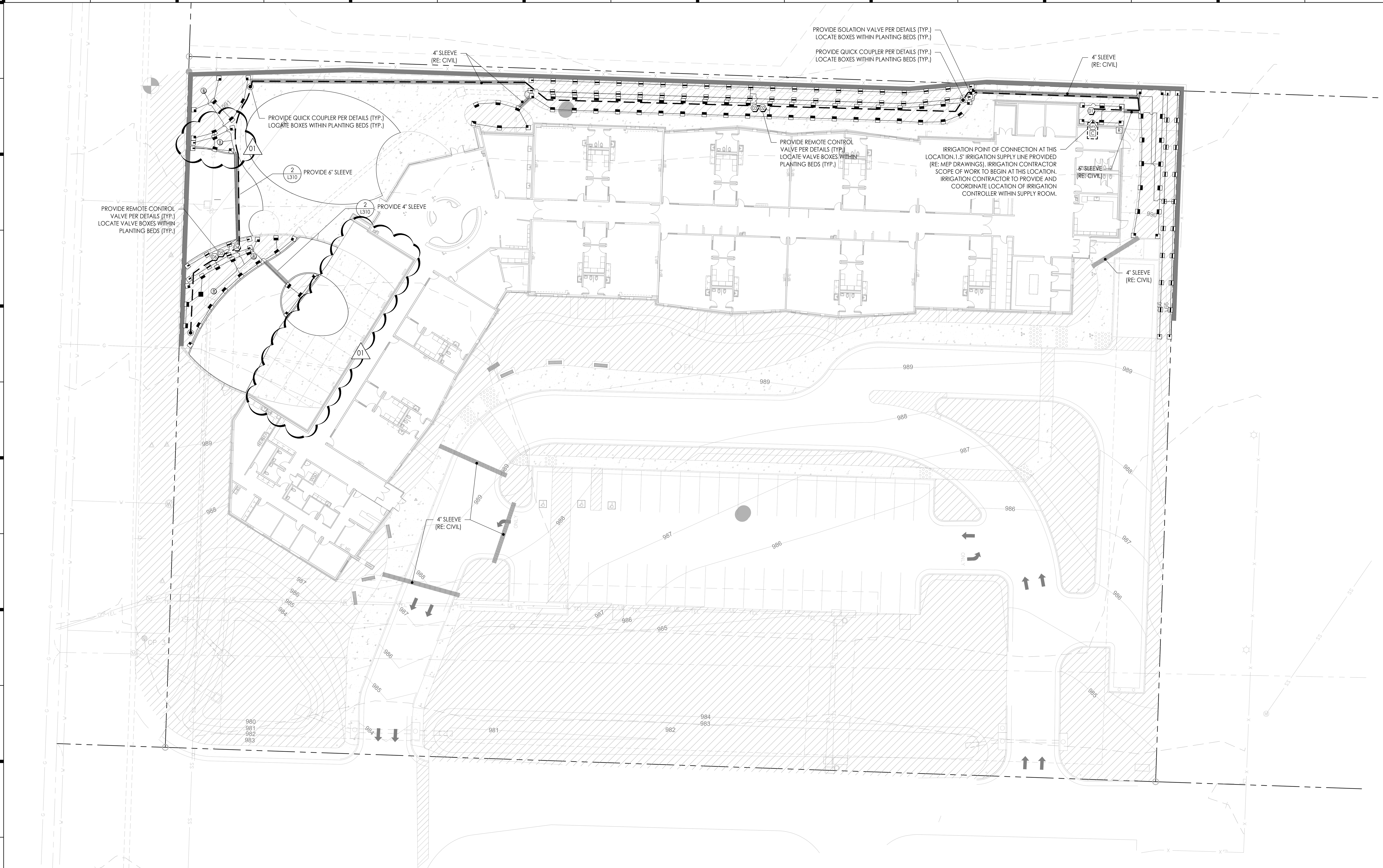

SHEET KEYNOTE LEGEND

1 IRRIGATION PLAN

Scale: 1" = 20'

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
C	AUTOMATIC CONTROLLER	RE: DETAIL 1/L310
R	RAIN SENSOR	RE: SPEC 328400
MV	MASTER VALVE	RE: DETAIL 4/L310
	BACKFLOW PREVENTER (N.I.C.)	RE: MEP DRAWINGS
M	WATER METER (N.I.C.)	RE: MEP DRAWINGS
	ISOLATION VALVE	RE: DETAIL 6/L310
	QUICK COUPLER	RE: DETAIL 7/L310
B	ROOT WATERING TUBES	RE: DETAIL 9/L310

IRRIGATION NOTES

1. THIS PLAN PROVIDES LAYOUT AND DISTRIBUTION TYPES FOR A COMPLETE AUTOMATIC IRRIGATION SYSTEM TO BE PROVIDED & INSTALLED BY THE LANDSCAPE CONTRACTOR. REFER TO **SPEC 328400 - IRRIGATION SYSTEM** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK.
2. ALL PLANTING BEDS AND TURF AREAS TO BE POP-UP SPRAY HEADS.
3. THE FINAL LOCATION AND EXACT POSITIONING OF AUTOMATIC CONTROLLERS AND RAIN SENSOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. 120-VOLT ELECTRICAL POWER SERVICE TO CONTROLLER ROOMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. SEE ENGINEER'S PLANS AND SPECIFICATIONS FOR MORE INFORMATION REGARDING ELECTRICAL SERVICE. COORDINATE WITH ELECTRICAL.
5. CONTRACTOR SHALL RUN TWO-WIRE PATH IN SAME TRENCH AS IRRIGATION MAINLINE.
6. INSTALL TRACER WIRE (#14 WITH PVC JACKET) ALONG ALL MAINLINE WHERE CONTROL WIRES OR TWO-WIRE PATH IS NOT PRESENT.
8. INSTALL ALL MAINLINES WITH A 1% MINIMUM SLOPE TO MANUAL DRAIN VALVES LOCATED AT LOW POINTS OF MAIN SYSTEM.
9. COORDINATE AND SEQUENCE SLEEVING, PIPE LOCATION, AND MECHANICAL IMPROVEMENTS WITH OTHER TRADES AS NECESSARY.
10. CONTRACTOR RESPONSIBLE FOR ENSURING THE FUNCTIONALITY OF ALL IRRIGATION EQUIPMENT AND ZONES BEFORE WORK WILL BE COMPLETE. ANY DAMAGE TO ADJACENT IRRIGATION EQUIPMENT MUST BE REPAIRED BY THE CONTRACTOR.

IMPORTANT:

WINTERIZATION WATER BLOW-OUT PROCESS WARNING -- THE IRRIGATION SYSTEM IS DESIGNED TO BE COMPLETELY DRAINED BY THE USE OF AN AIR COMPRESSOR TO PROTECT PIPES FROM BURSTING PRIOR TO FREEZING TEMPERATURES.

IRRIGATION SCHEDULE (01)

ZONE		HEAD/LINE INFO 360°	270°	180°	90°	SS	L/R	C	FLOW (GPM)	OPERATING PRESSURE (PSI)	VALVE SIZE	
1		HUNTER: MP ROTATOR 1000(0.37gpm)							10.30	30	1"	
		0	0	2	4	16	4	0				
2		HUNTER: MP ROTATOR 1000(0.37gpm)							19.27	30	1.5"	
		0	0	49	6	0	0	0				
3		HUNTER: MP ROTATOR 1000(0.37gpm)							20.52	30	1.5"	
		0	0	5	1	38	4	0				
4		DRIP: 4 RZWS; ROOT ZONE WATERING @ 0.01GPM							0.04	30	1"	
5		HUNTER: MP ROTATOR 1000(0.37gpm)							8.88	30	1"	
		0	0	8	8	4	6	0				
6		HUNTER: MP ROTATOR 1000(0.37gpm)							6.70	30	1"	
		1	0	13	4	0	0	0				

HEAD TRAJECTORIES: (L/R) - LEFT/RIGHT CORNER; (SS) - SIDE STRIP; (C) - CORNER

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Joplin Early Childhood Center

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REVISIONS:

#	Description	Date
01	ADDENDUM 002	10.25.2016

STATE OF MISSOURI
BOB G. BUSHYHEAD
NUMBER
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LANDSCAPE ARCHITECT
9.30.16

JOB NO: 1175
BY: MRK
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L300

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IRRIGATION PLAN (BASE BID)

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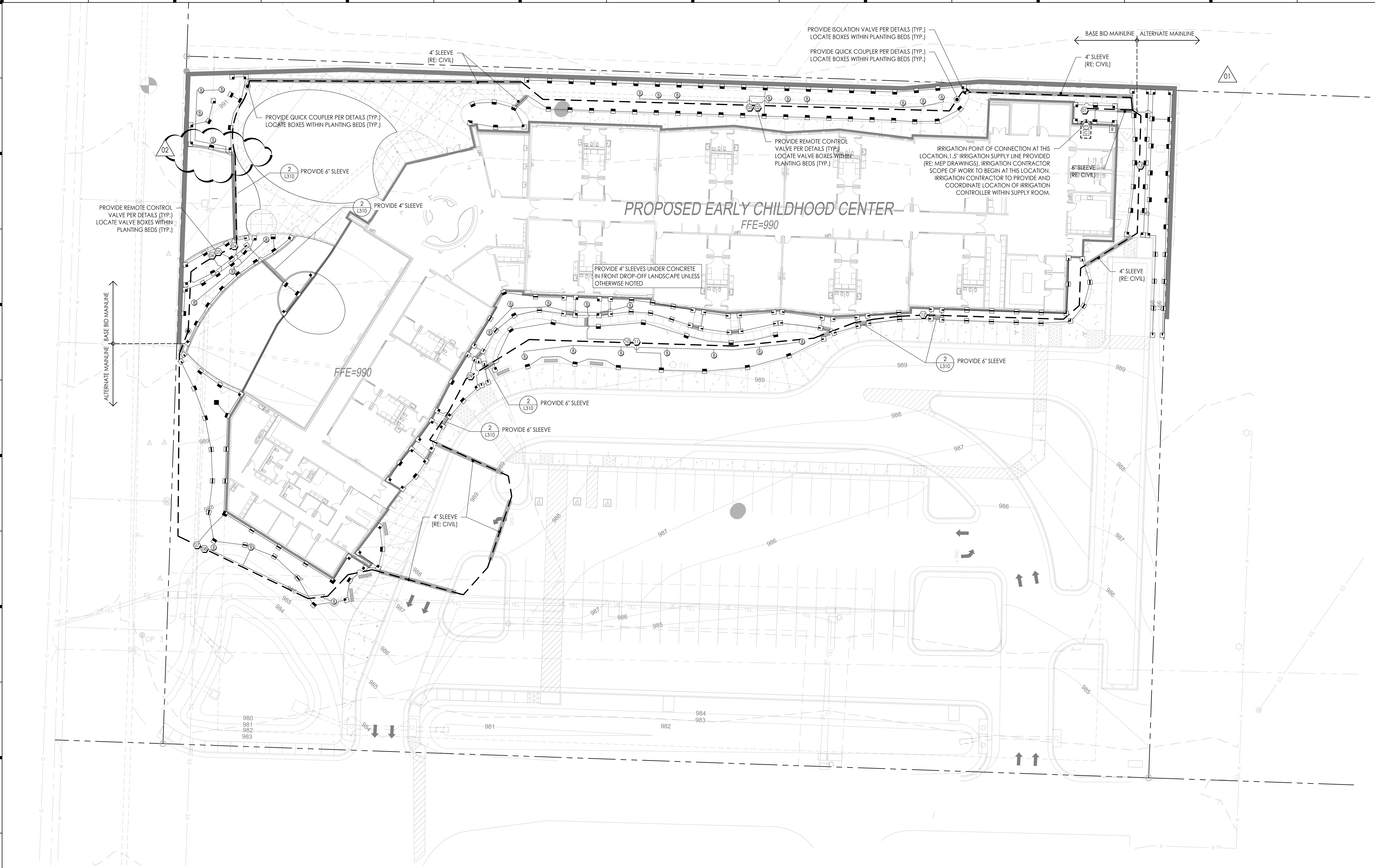

1 ALTERNATE #6 - IRRIGATION PLAN

Scale: 1" = 20'

SHEET KEYNOTE LEGEND

ALTERNATE #6

FOR ALTERNATE #6, THE FOLLOWING PLAN IS TO REPLACE THE BASE BID IRRIGATION PLAN (L300) IN ITS ENTIRETY.

SEE L202 - LANDSCAPE PLAN ALTERNATES FOR THE PLANTING PLAN OF ALTERNATE #6

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
C	AUTOMATIC CONTROLLER	RE: DETAIL 1/L310
R	RAIN SENSOR	RE: SPEC 328400
MV	MASTER VALVE	RE: DETAIL 4/L310
	BACKFLOW PREVENTER (N.I.C.)	RE: MEP DRAWINGS
M	WATER METER (N.I.C.)	RE: MEP DRAWINGS
	ISOLATION VALVE	RE: DETAIL 6/L310
	QUICK COUPLER	RE: DETAIL 7/L310
B	ROOT WATERING TUBES	RE: DETAIL 9/L310

IRRIGATION NOTES

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2. ALL PLANTING BEDS AND TURF AREAS TO BE POP-UP SPRAY HEADS.
3. THE FINAL LOCATION AND EXACT POSITIONING OF AUTOMATIC CONTROLLERS AND RAIN SENSOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
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IRRIGATION ALTERNATE SCHEDULE (01)

ZONE	HEAD/LINE INFO	360°	270°	180°	90°	SS	L/R	C	FLOW (GPM)	OPERATING PRESSURE (PSI)	VALVE SIZE
1	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	11	6	6	2	0	8.73	30	1"
2	DRIP: 9 RZWS; ROOT ZONE WATERING @ 0.01GPM							0	2.25	30	1"
3	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	44	3	0	0	0	16.85	30	1.5"
4	DRIP: 7 RZWS; ROOT ZONE WATERING @ 0.01GPM								1.75	30	1"
5	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	11	10	2	0	0	6.85	30	1"
6	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	12	4	0	0	0	5.20	30	1"
7	HUNTER: MP ROTATOR 1000(0.37gpm)	1	2	9	7	11	2	0	12.27	30	1"
8	DRIP: 3 RZWS; ROOT ZONE WATERING @ 0.01GPM								0.75	30	1"
9	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	6	15	10	18	0	17.39	30	1.5"
10	DRIP: 12 RZWS; ROOT ZONE WATERING @ 0.01GPM								3.00	30	1"
11	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	14	1	0	5	0	7.57	30	1"
12	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	0	0	13	16	2	13.64	30	1"
13	HUNTER: MP ROTATOR 1000(0.37gpm)	0	0	10	4	0	0	0	4.46	30	1"

HEAD TRAJECTORIES: (L/R) - LEFT/RIGHT CORNER; (SS) - SIDE STRIP; (C) - CORNER

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Joplin Schools

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01	ADDENDUM 001	10.14.2016
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KEY PLAN

JOB NO: 1175
BY: JRK
CHECKED BY: BGB
16

L301

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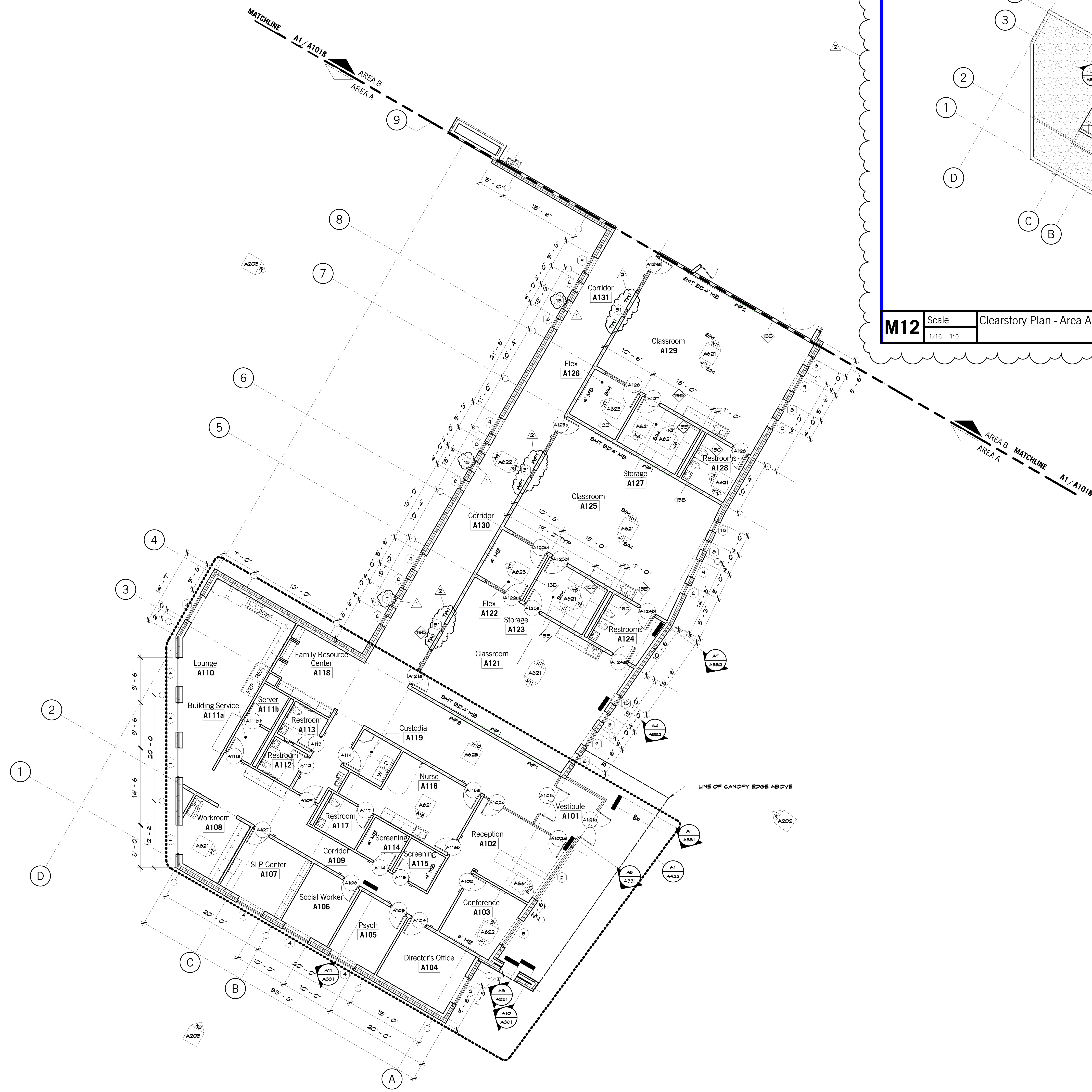
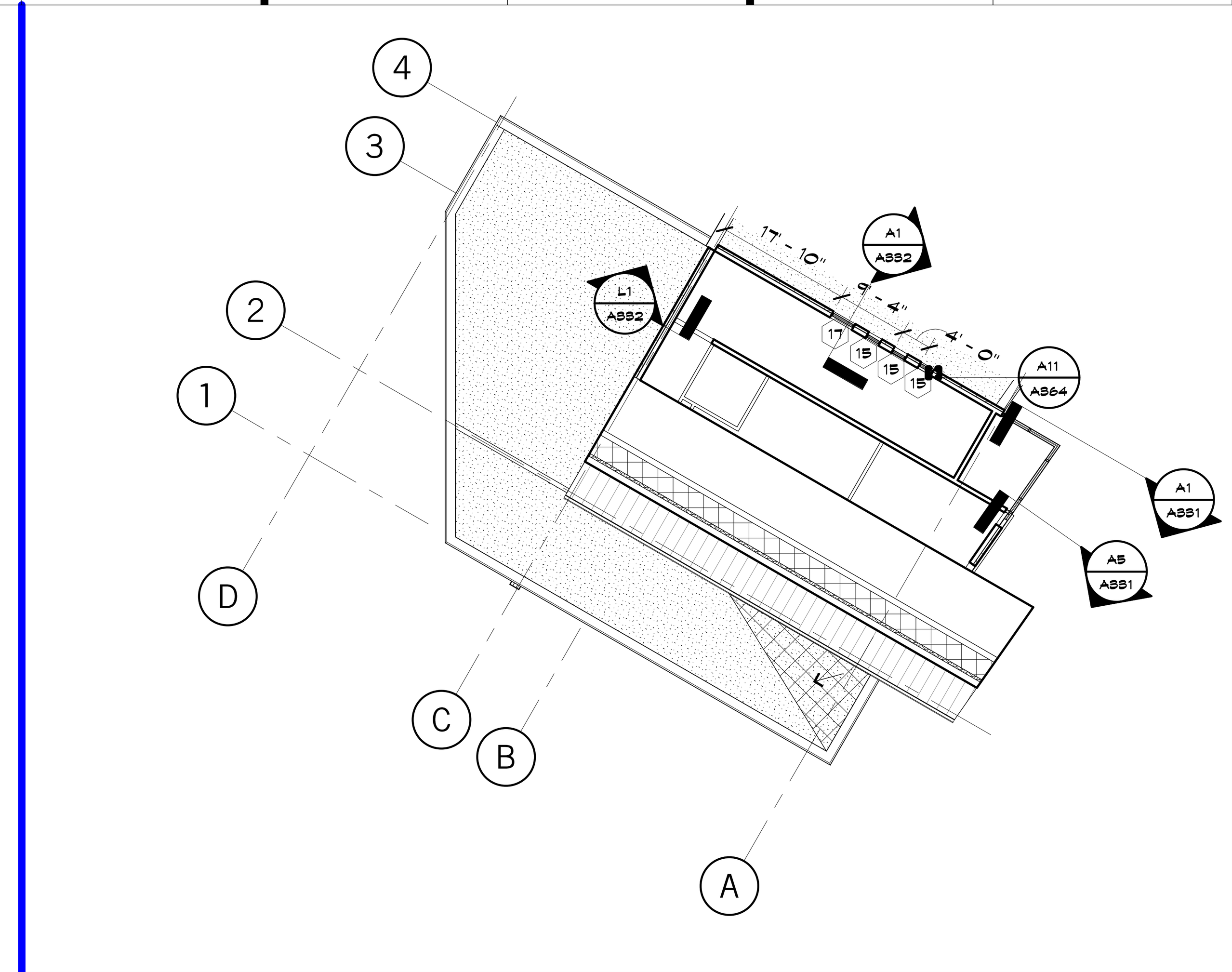
IRRIGATION PLAN ALTERNATE

9/22/2016 7:50:53 AM



A1 Scale 1/8" = 1'-0" Floor Plan - Area A



M12 Scale 1/16" = 1'-0" Clearstory Plan - Area A

SHEET KEYNOTE LEGEND

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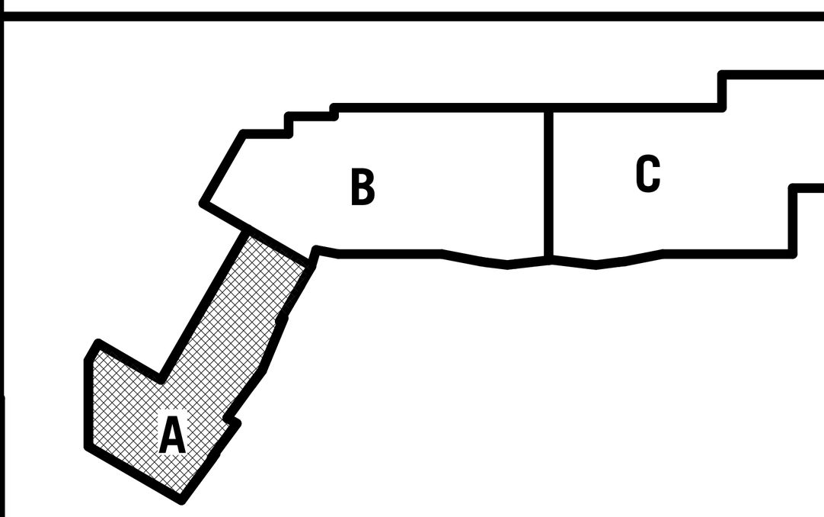
Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.25.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

KEY PLAN



JOB NO: 16054
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DATE: 09.30.2016

A101A

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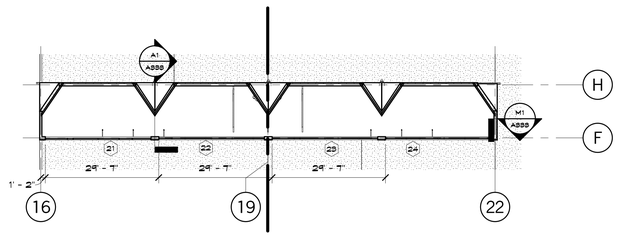
FLOOR PLAN - AREA A

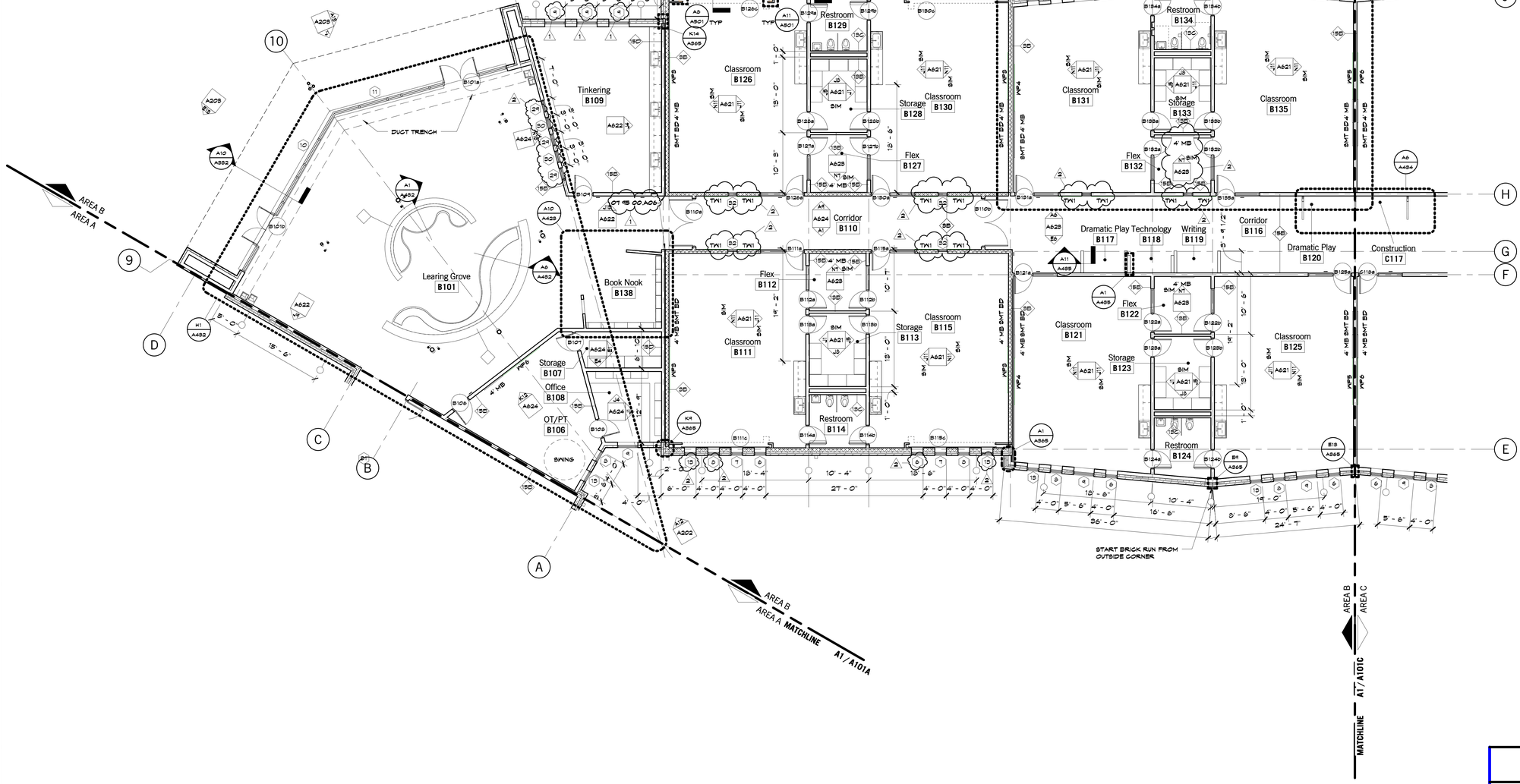
10/25/2016 9:57:52 AM



P1 | Scale 1/16" = 1'-0" | Clearstory Plan - Area B and C

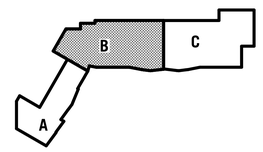
SHEET KEYNOTE LEGEND

07 95 00 A06 WALL-TO-WALL JOINT SYSTEM



A1 | Scale 1/8" = 1'-0" | Floor Plan - Area B

KEY PLAN



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#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
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DATE: 09.30.2016

A101B

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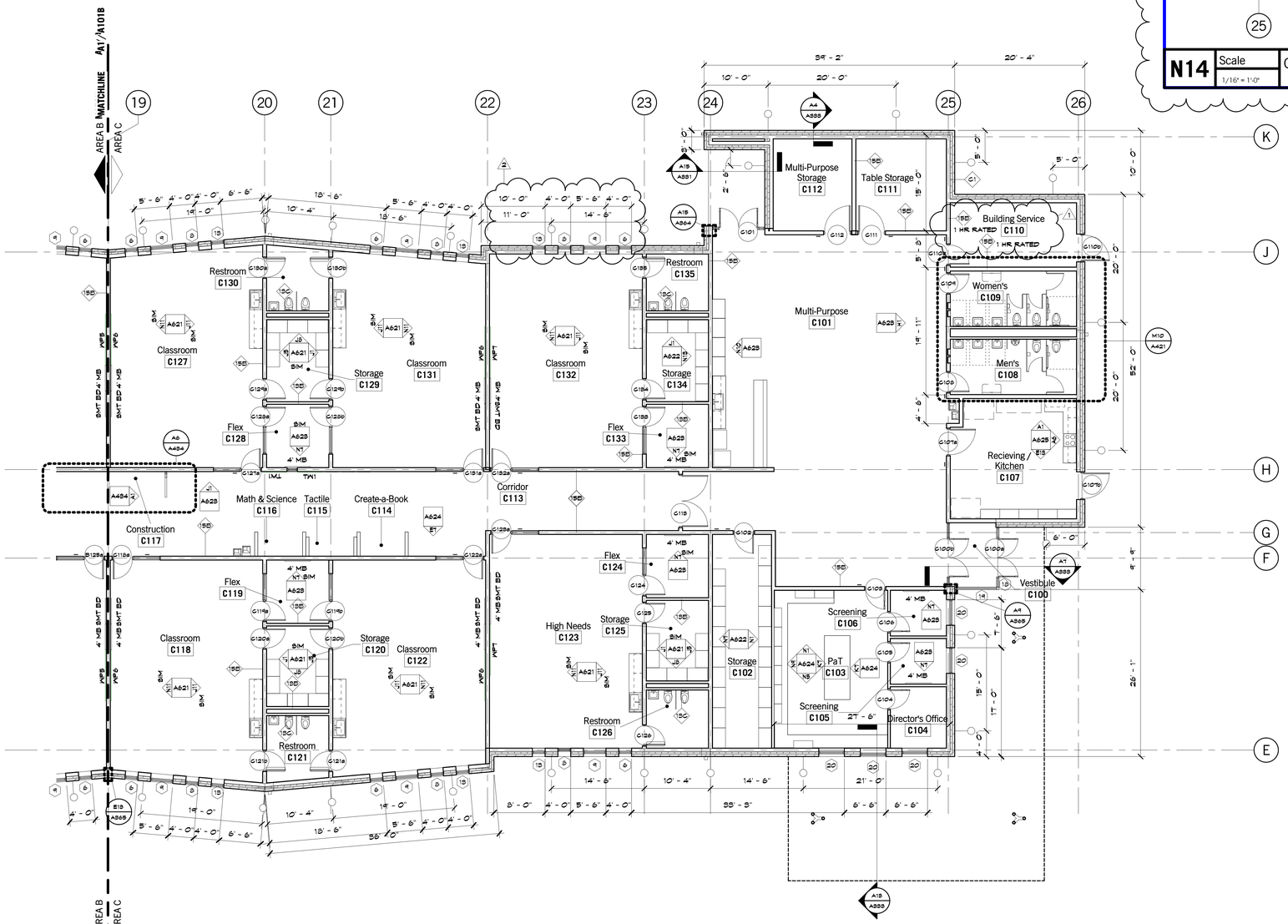
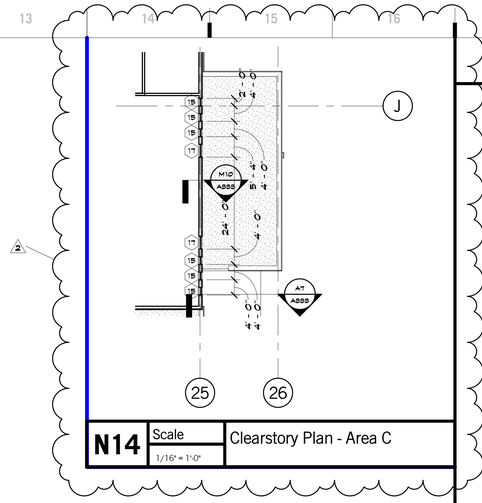
FLOOR PLAN - AREA B

10/25/2016 9:57:54 AM





N14 | Scale 1/16" = 1'-0" | Clearstory Plan - Area C

A1 | Scale 1/8" = 1'-0" | Floor Plan - Area C

SHEET KEYNOTE LEGEND

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DRAWN BY: Author
CHECKED BY: Checker
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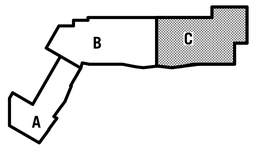
KEY PLAN



A101C

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FLOOR PLAN - AREA C

10/28/2016 8:57:55 AM

A1	Scale 1/8" = 1'-0"	Reflected Ceiling Plan - Area C

SHEET KEYNOTE LEGEND

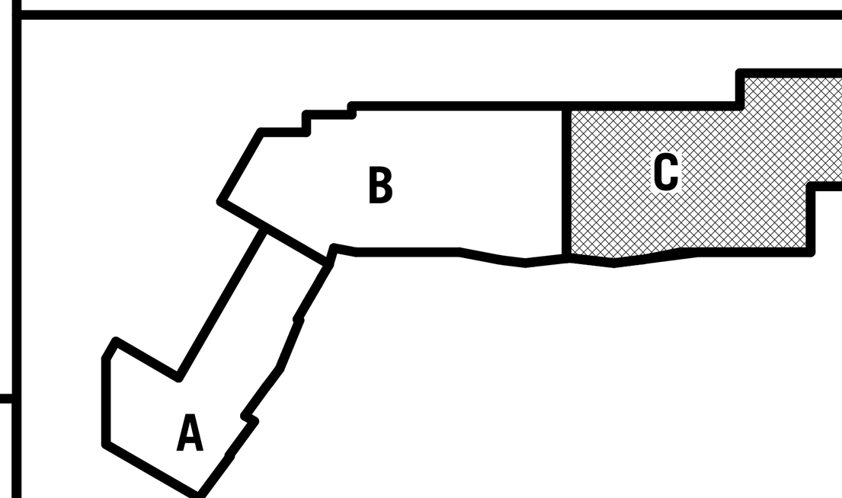
RCP NOTES

1. PAINT ALL GYP BD CEILINGS & SOFFITS.
2. PAINT ALL EXPOSED TO VIEW STRUCTURE, DUCTWORK (INCLUDING INSIDE EXPOSED TO VIEW), GRILLES, DIFFUSERS, PIPING , CONDUIT, ETC. PER ROOM FINISH SCHEDULE.
3. RE: MEP DRAWINGS FOR INFORMATION/DETAILS.
4. ACOUSTICAL CEILING INSTALLER SHALL PLACE HANGER WIRES SUCH THAT A CLEAR AREA IS MAINTAINED TO SERVICE MECHANICAL EQUIPMENT. (PROJECT SPECIFIC).

RCP LEGEND

- 2x4 ACOUSTICAL LAY-IN CEILING TILE & GRID
- 4x4 ACOUSTICAL LAY-IN CEILING TILE & GRID
- LIGHT FIXTURE
- CJ CONTROL JOINT
- COMPOSITE PLANK EXTERIOR SOFFIT
- RETURN DUCT
- SUPPLY DUCT
- GYP BD
- CEILING MOUNTED EXIT LIGHT

KEY PLAN



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DATE: 09.30.2016

A121C

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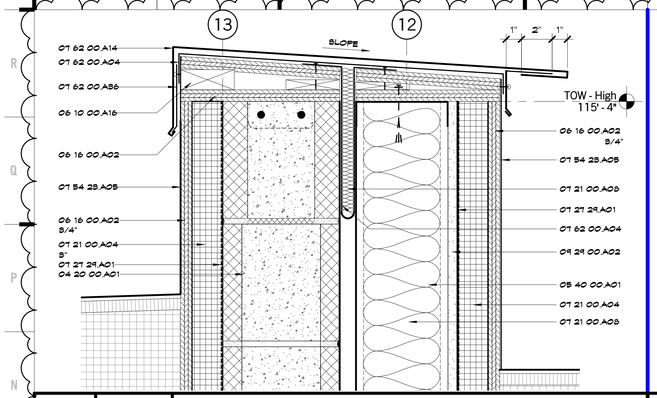
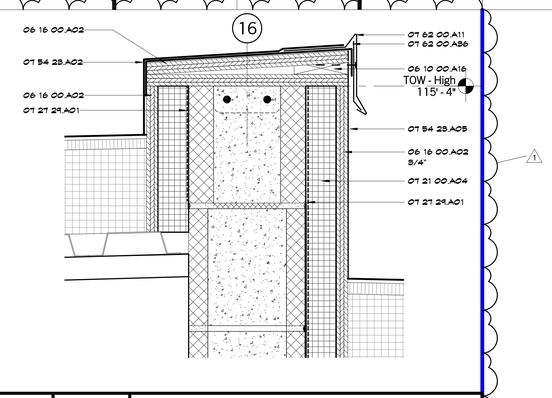
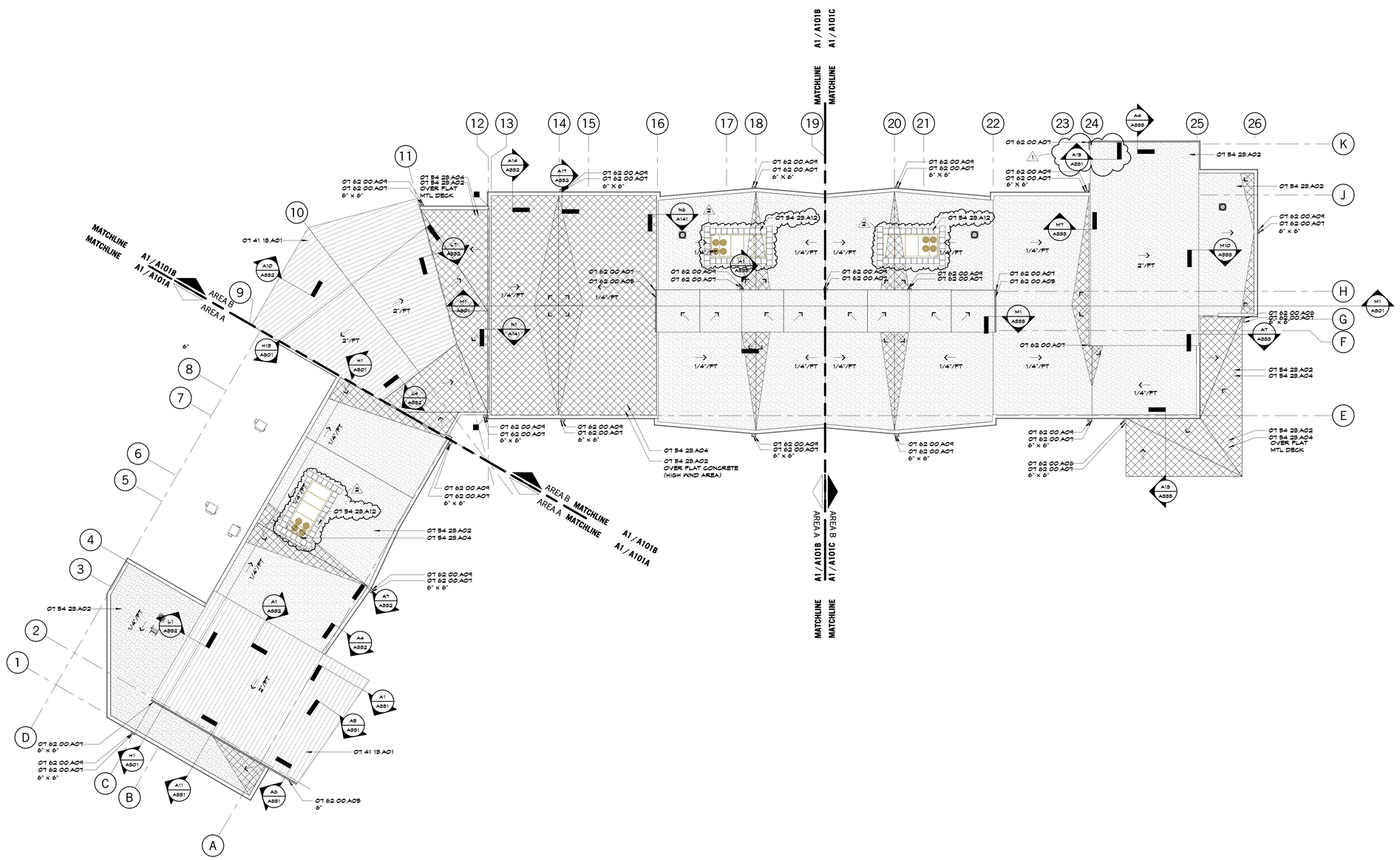
REFLECTED CEILING PLAN - AREA C



N1 | Scale 3" = 1'-0" | Roof Expansion Joint



N6 | Scale 3" = 1'-0" | Roof Transition



A1 | Scale 1/16" = 1'-0" | Overall Roof Plan

SHEET KEYNOTE LEGEND

04 20 00 A01	CONCRETE MASONRY UNITS
05 40 00 A01	COLD-FORMED METAL FRAMING
06 10 00 A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00 A02	FIRE-RETARDANT TREATED PLYWOOD
07 21 00 A04	POLYISOCYANURATE INSULATION
07 21 00 A05	UNFACED GLASS FIBER BLANKET INSULATION
07 27 29 A01	VAPOR RETARDING AIR BARRIER COATING
07 41 13 A01	METAL ROOF PANELS
07 54 28 A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 54 28 A04	TAPERED ROOF INSULATION
07 54 28 A05	SHEET FLASHING
07 54 28 A12	WALKWAYS
07 62 00 A04	FLEXIBLE MEMBRANE CLOSURE
07 62 00 A05	HANGING GUTTERS
07 62 00 A07	DOWNSPOUTS
07 62 00 A08	SCUPPERS
07 62 00 A09	CONDUCTOR HEADS
07 62 00 A11	GRAVEL STOP
07 62 00 A14	ROOF TO ROOF EXPANSION JOINT COVER
07 62 00 A86	CLEAT
09 29 00 A02	GYPSUM BOARD - TYPE X

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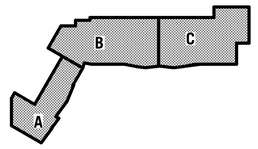
KEY PLAN



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A141

OF

OVERALL ROOF PLAN

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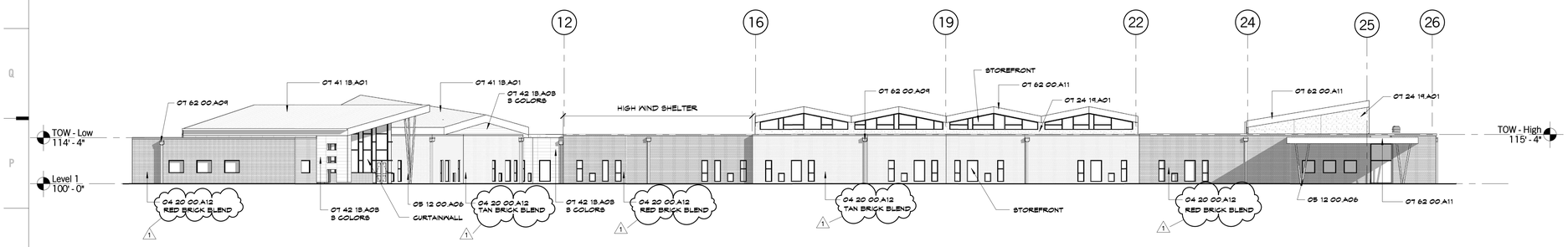
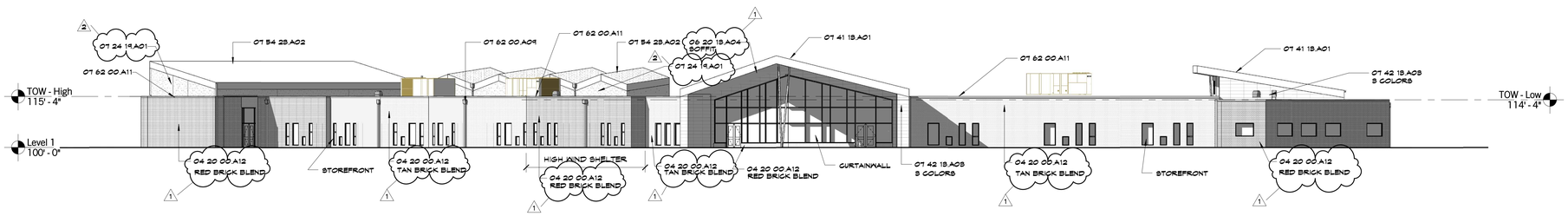
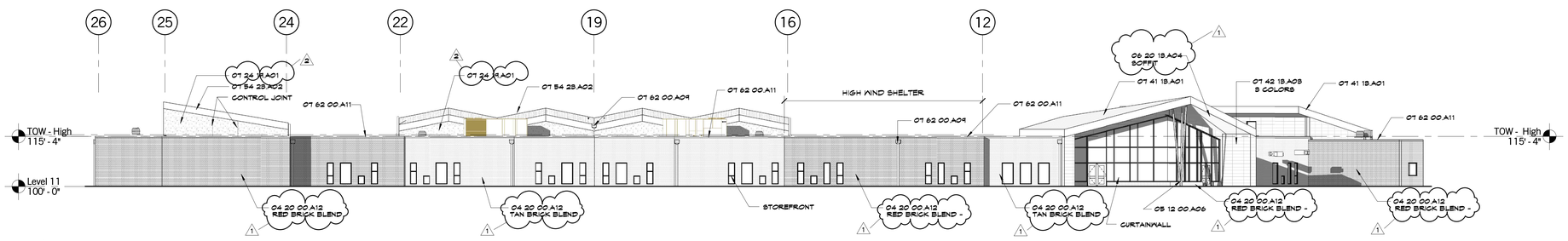


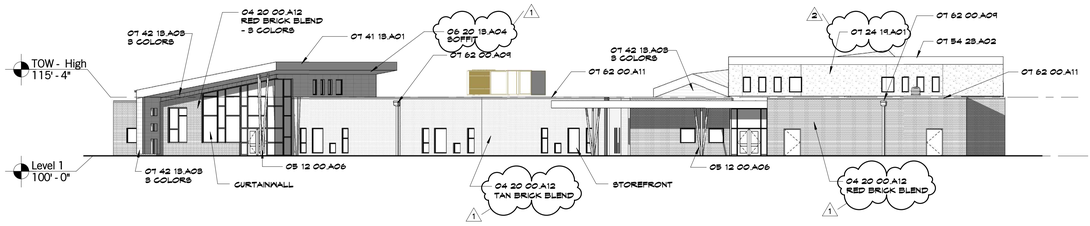
N1 Scale 1/16" = 1'-0" — South Elevation



J1 Scale 1/16" = 1'-0" — West Elevation



E1 Scale 1/16" = 1'-0" — North Elevation



A1 Scale 1/16" = 1'-0" — East Elevation

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
05 12 00.A06	COLD-FORMED HSS
06 20 1B.A04	POLYASH SYTHETIC TRIM
07 24 19.A01	DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM
07 41 1B.A01	METAL ROOF PANELS
07 42 1B.A03	CONCEALED FASTENER METAL WALL PANELS
07 54 2B.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 62 00.A09	CONDUCTOR HEADS
07 62 00.A11	GRAVEL STOP

SHEET NOTES

2

1. PROVIDE EXPASIN JOINT OSSOOO A1B AND SEALANT 07S20O.A01 AROUND ALL DOWN SPOUTS THAT GO THROUGH CONCRETE

EXTERIOR ELEVATION LEGEND

- STANDING SEAM METAL ROOF
- EXTERIOR METAL PANEL - SIM TO CENTRIA C8220 - 5 COLORS
- RED BRICK BLEND - SIM TO : 65% CHEROKEE BLEND / 35% OLD ROSE VELOUR - CLOUD CERAMICS
- TAN BRICK BLEND - SIM TO: 50% DRIFTWOOD GREY / 50% SAHARA LT. BUFF VELOUR - CLOUD CERAMICS

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JOB NO: 16054
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DATE: 09.30.2016

A201
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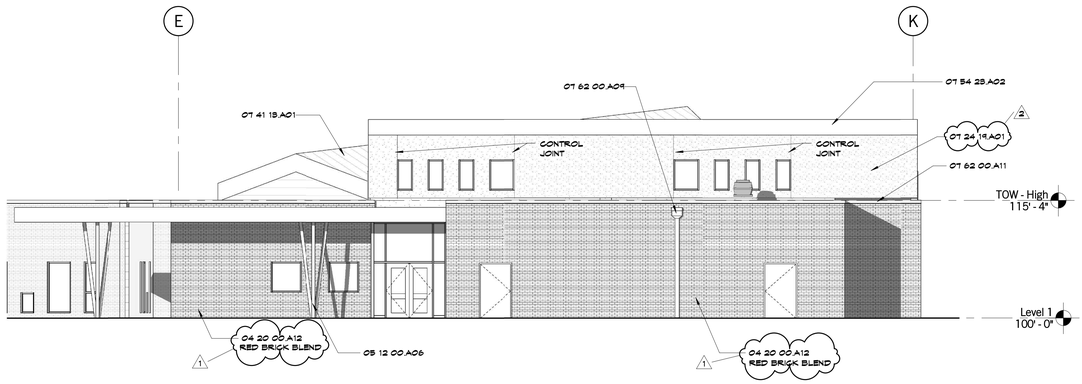
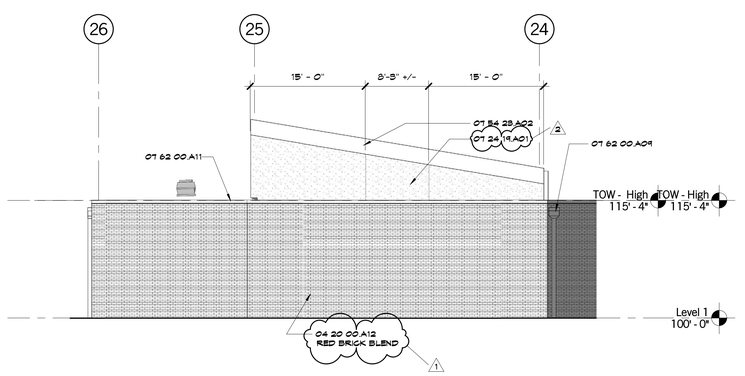
EXTERIOR OVERALL BUILDING ELEVATIONS

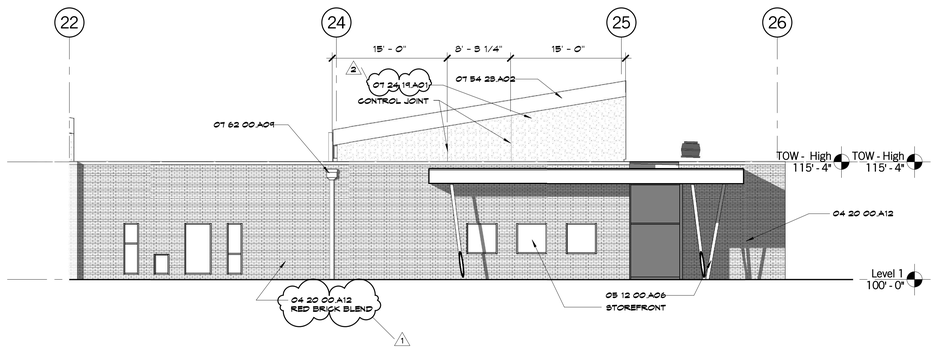
10/24/2016 4:57:43 PM



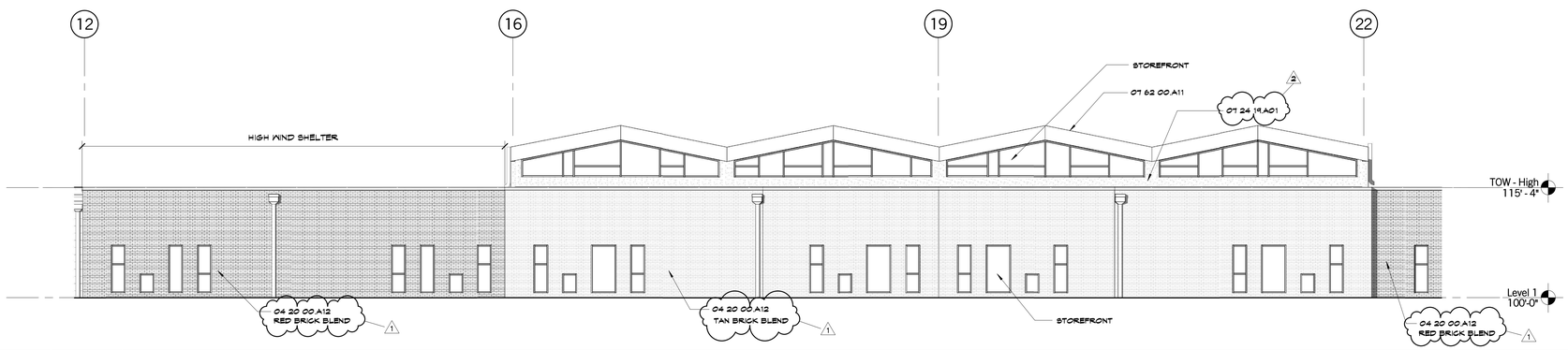
M1 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation - Multi-Purpose Entry



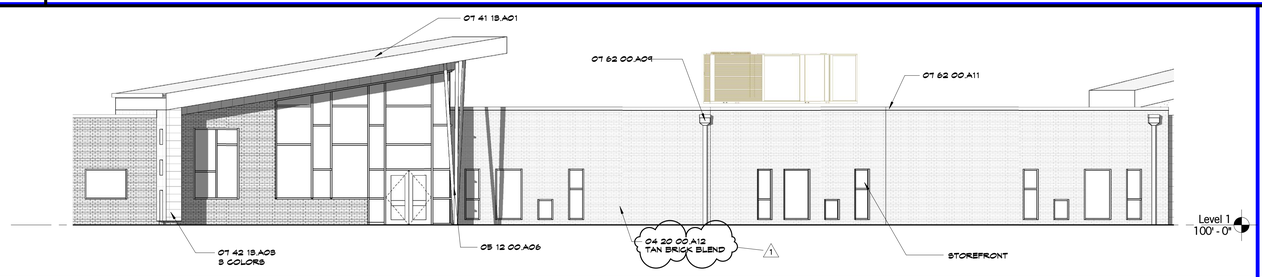
M10 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation - Multi-Purpose North



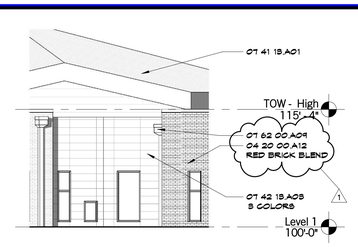
H8 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation - Multi-Purpose - South



D1 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation South - Classrooms



A1 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation South - Entry/ Administration



A12 Scale 1/8" = 1'-0" — Enlarged Exterior Elevation South - OP/PT

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
05 12 00.A06	COLD-FORMED HSS
07 24 19.A01	DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM
07 41 13.A01	METAL ROOF PANELS
07 42 13.A08	CONCEALED FASTENER METAL WALL PANELS
07 54 23.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 62 00.A09	CONDUCTOR HEADS
07 62 00.A11	GRAVEL STOP

SHEET NOTES

1. PROVIDE EXPASIN JOINT 035000.A13 AND SEALANT 079200.A01 AROUND ALL DOWN SPOUTS THAT GO THROUGH CONCRETE

EXTERIOR ELEVATION LEGEND

- STANDING SEAM METAL ROOF
- EXTERIOR METAL PANEL - SIM TO CENTRIA C6200 - 5 COLORS
- RED BRICK BLEND - SIM TO : 65% CHEROKEE BLEND / 35% OLD ROSE VELOUR - CLOUD CERAMICS
- TAN BRICK BLEND - SIM TO: 50% DRIFTWOOD GREY / 50% SAHARA LT. BUFF VELOUR - CLOUD CERAMICS

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STATE OF MISSOURI — JOHN GILBERT BROWN — NUMBER A-6538 — REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

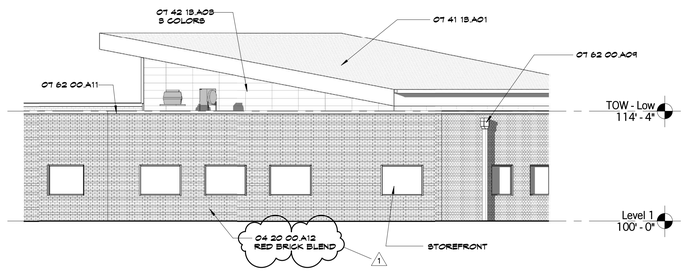
A202

OF

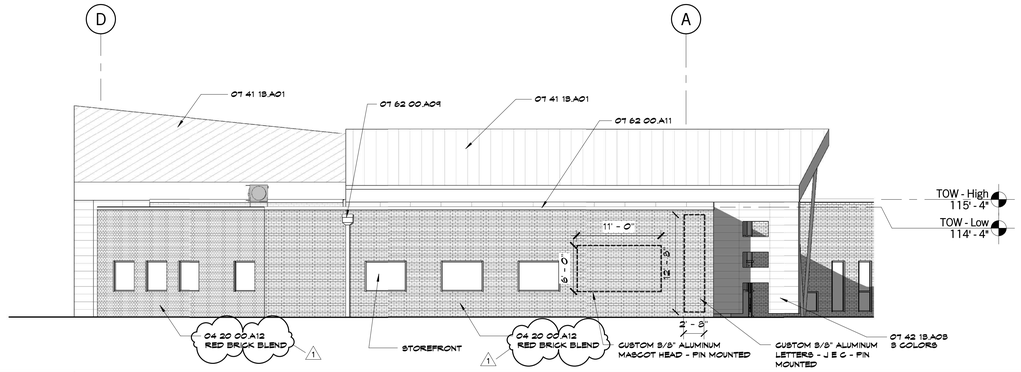
ENLARGED EXTERIOR BUILDING ELEVATIONS

10/24/2016 4:57:55 PM

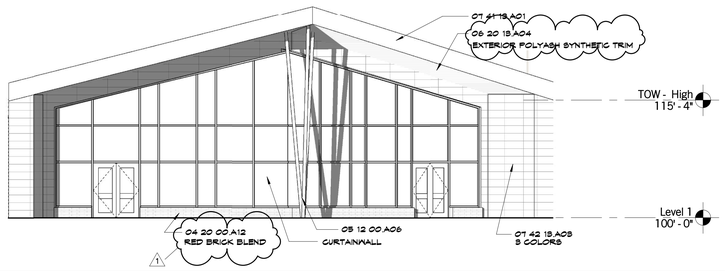
Please consider the environment before printing this.



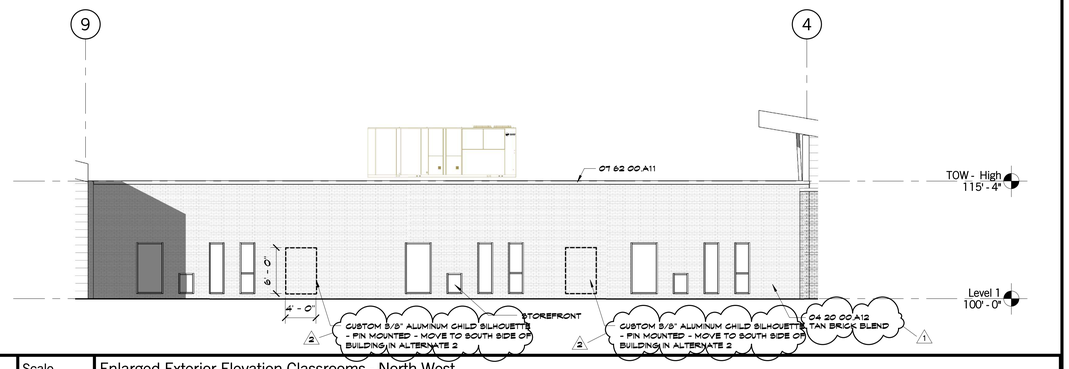
N1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Admistration West



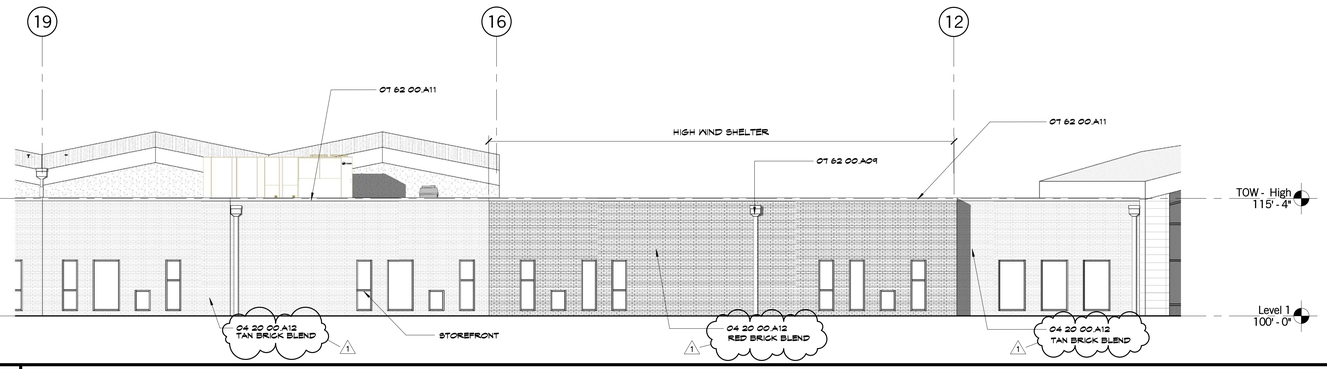
N8 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation - Administration - South West



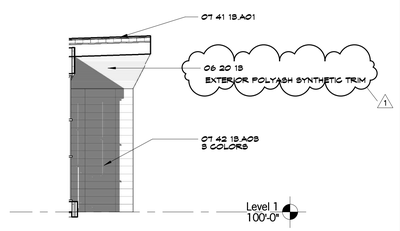
J1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation North - Learning Grove



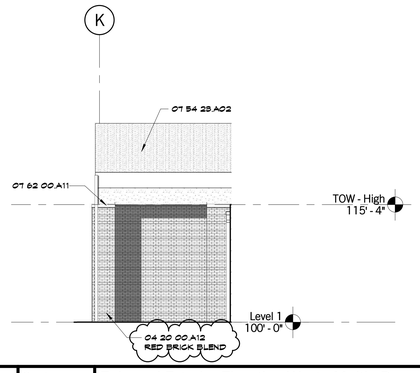
J8 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation Classrooms - North West



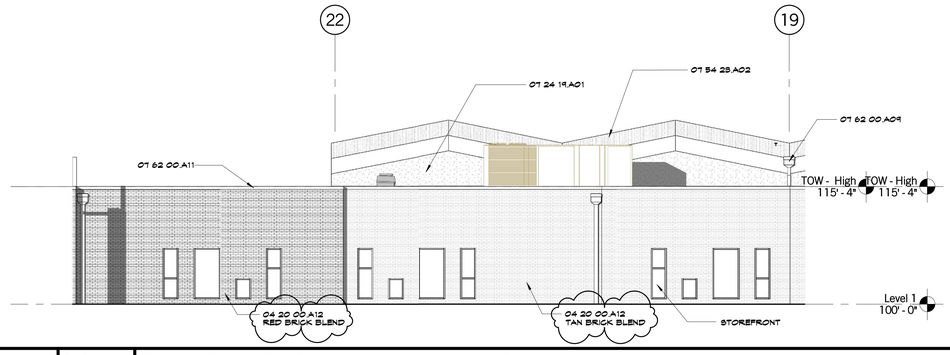
E1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation North - Classrooms Area B



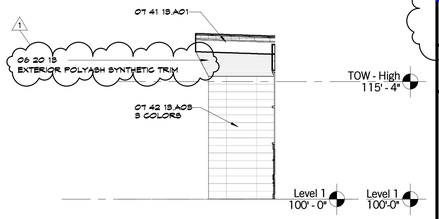
E13 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation East - Day Care



A1 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation West - Multi - Purpose



A5 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation North - Classrooms Area C



A13 | Scale 1/8" = 1'-0" | Enlarged Exterior Elevation West - Tinkering

SHEET KEYNOTE LEGEND

04 20 00.A12	FACE BRICK
05 12 00.A06	COLD-FORMED HSS
06 20 13	EXTERIOR FINISH CARPENTRY
06 20 13.A04	POLYASH SYTHETIC TRIM
07 24 19.A01	DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM
07 41 13.A01	METAL ROOF PANELS
07 42 13.A08	CONCEALED FASTENER METAL WALL PANELS
07 54 23.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 62 00.A04	CONDUCTOR HEADS
07 62 00.A11	GRAVEL STOP

SHEET NOTES

1. PROVIDE EXPASIN JOINT 038000.A15 AND SEALANT 079200.A01 AROUND ALL DOWN SPOUTS THAT GO THROUGH CONCRETE

EXTERIOR ELEVATION LEGEND

- STANDING SEAM METAL ROOF
- EXTERIOR METAL PANEL - SIM TO CENTRIA C8200 - 3 COLORS
- RED BRICK BLEND - SIM TO : 65% CHEROKEE BLEND / 35% OLD ROSE VELOUR - CLOUD CERAMICS
- TAN BRICK BLEND - SIM TO: 50% DRIFTWOOD GREY / 50% SAHARA LT. BUFF VELOUR - CLOUD CERAMICS

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.28.2016

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A203
____ OF ____

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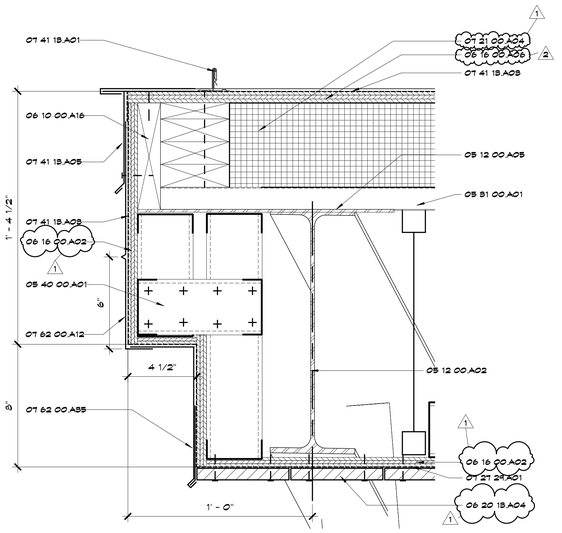
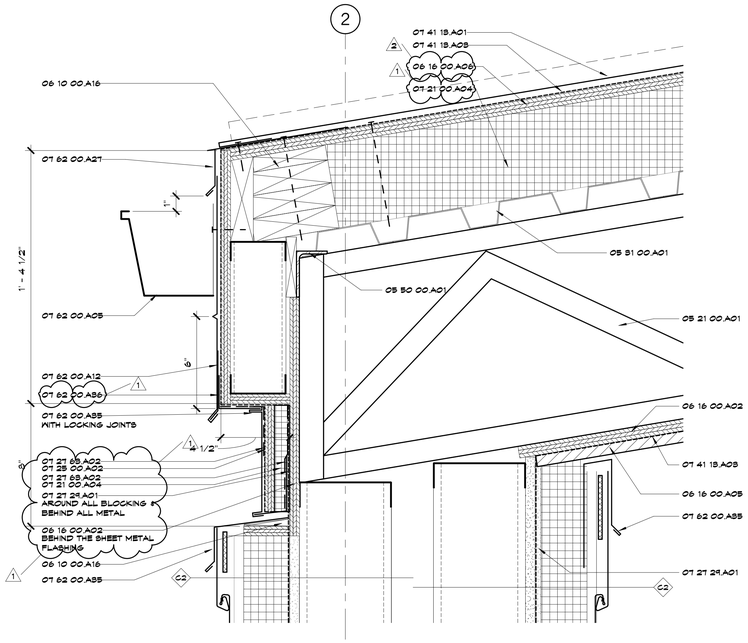
10/24/2016 4:58:07 PM



L1 | Scale 3" = 1'-0" | Wall Section 01 - Callout 3



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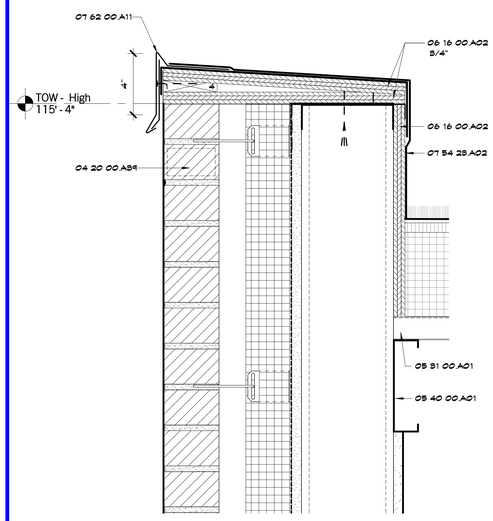
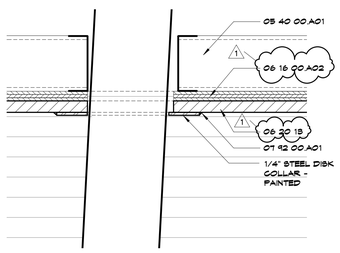


K13 | Scale 3" = 1'-0" | Typical Parapet @ Brick & Mtl Stud



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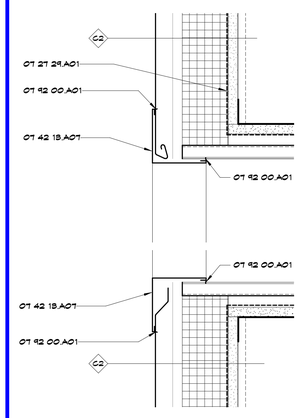

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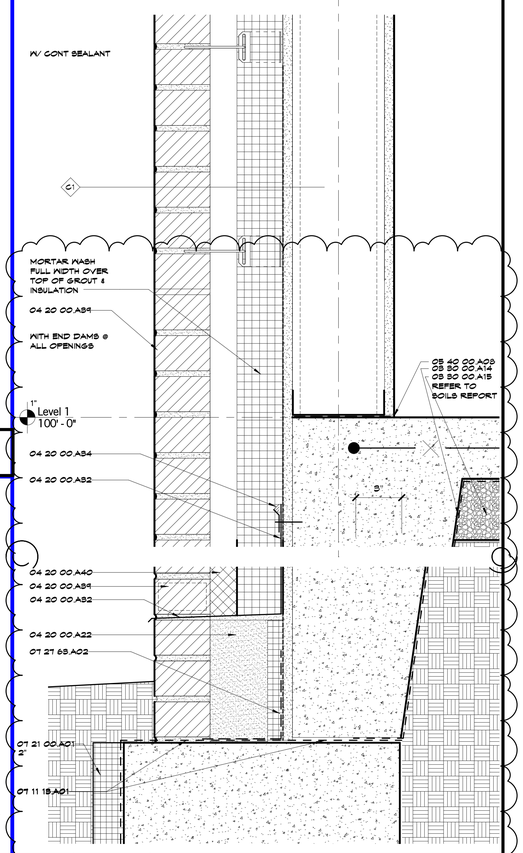
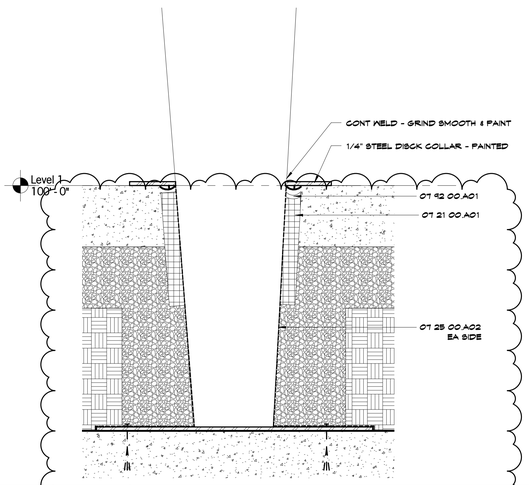
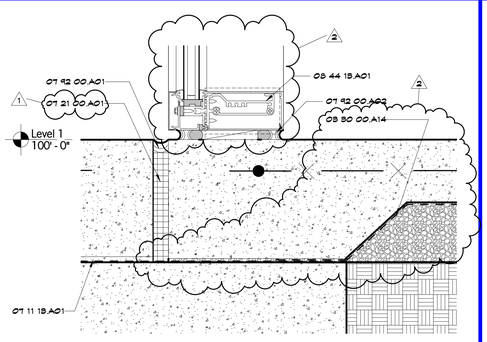


K13 | Scale 3" = 1'-0" | Wall Section 04 - Callout 4



A1 | Scale 3" = 1'-0" | Wall Section 01 - Callout 1 - TYP Exterior Column Base



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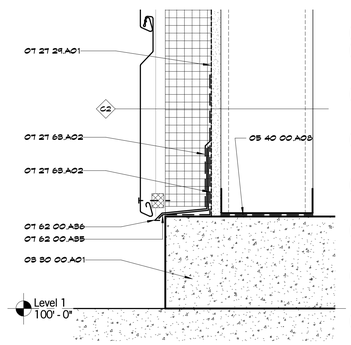

A10 | Scale 3" = 1'-0" | Wall Section 03 - Callout 3

SHEET KEYNOTE LEGEND

03 30 00.A01	CAST-IN-PLACE CONCRETE
03 30 00.A14	VAPOR RETARDERS
03 30 00.A15	GRANULAR DRAINAGE FILL
04 20 00.A22	GROUT
04 20 00.A82	EMBEDDED FLEXIBLE FLASHING
04 20 00.A84	FLASHING TERMINATION BARS
04 20 00.A86	WEEP HOLE/VENT
04 20 00.A40	CAVITY DRAINAGE MATERIAL
05 12 00.A02	W SHAPE
05 12 00.A05	PLATE
05 21 00.A01	STEEL JOIST
05 31 00.A01	ROOF DECK
05 40 00.A01	COLD-FORMED METAL FRAMING
05 40 00.A03	ISOLATION STRIP MEMBRANE
05 50 00.A01	MISC STEEL FRAMING/SUPPORTS
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A05	CEMENTITIOUS WALL SHEATHING
06 16 00.A06	ROOF SHEATHING
06 20 13	EXTERIOR FINISH CARPENTRY
06 20 19.A04	POLYASH SYTHETIC TRIM
07 11 18.A01	DAMPPROOFING
07 21 00.A01	EXTRUDED POLYSTYRENE BOARD INSULATION
07 21 00.A04	POLYISOCYANURATE INSULATION
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 27 29.A01	VAPOR RETARDING AIR BARRIER COATING
07 27 65.A02	TRANSITION MEMBRANE
07 41 18.A01	METAL ROOF PANELS
07 41 18.A03	UNDERLAYMENT
07 41 18.A05	FLASHING
07 54 23.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 62 00.A05	HANGING GUTTERS
07 62 00.A11	GRAVEL STOP
07 62 00.A12	FASCIA CAP
07 62 00.A27	DRIP EDGES
07 62 00.A85	PRE-FINISHED MISC METAL FLASHING
07 62 00.A86	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 44 18.A01	ALUMINUM CURTAIN WALL

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A361

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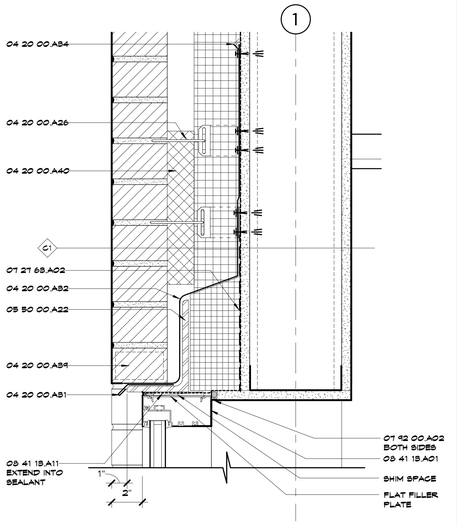
EXTERIOR DETAILS

10/24/2016 4:38:08 PM



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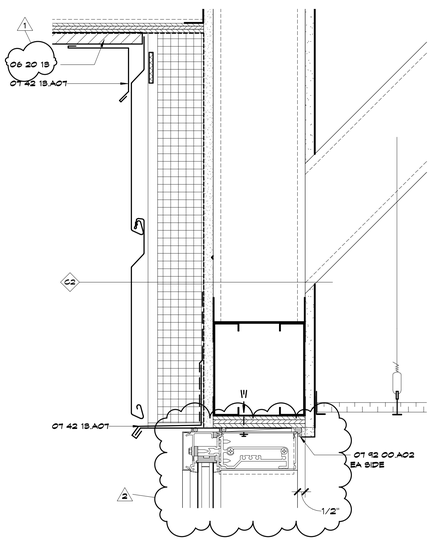

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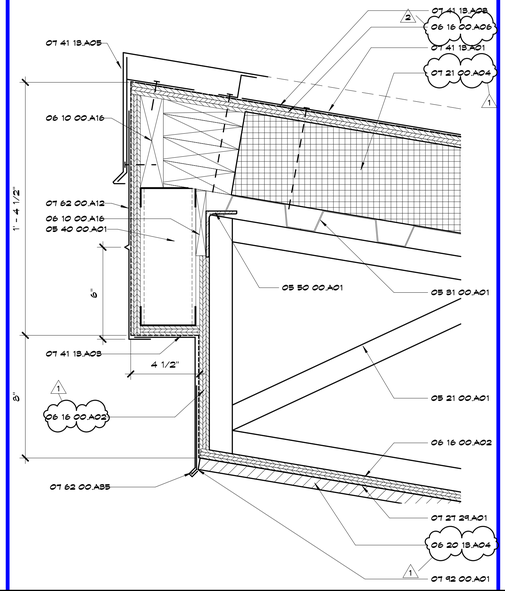

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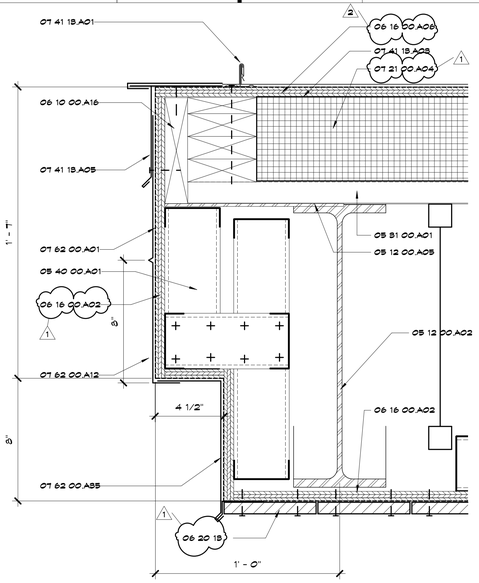

L13 | Scale 3" = 1'-0" | Wall Section 11 - Callout 1

SHEET KEYNOTE LEGEND

05 50 00 A14	VAPOR RETARDERS
05 50 00 A15	GRANULAR DRAINAGE FILL
04 20 00 A22	GROUT
04 20 00 A26	ADJUSTABLE MASONRY VENEER ANCHORS
04 20 00 AB1	METAL DRIP EDGES
04 20 00 AB2	EMBEDDED FLEXIBLE FLASHING
04 20 00 AB4	FLASHING TERMINATION BARS
04 20 00 AB9	WEEP HOLE/VENT
04 20 00 A40	CAVITY DRAINAGE MATERIAL
05 12 00 A02	W SHAPE
05 12 00 A03	CHANNEL
05 12 00 A05	PLATE
05 21 00 A01	STEEL JOIST
05 51 00 A01	ROOF DECK
05 40 00 A01	COLD-FORMED METAL FRAMING
05 40 00 A03	ISOLATION STRIP MEMBRANE
05 50 00 A01	MISC STEEL FRAMING/SUPPORTS
05 50 00 A22	LOOSE STEEL LINTEL
06 10 00 A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00 A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00 A06	ROOF SHEATHING
06 20 1B	EXTERIOR FINISH CARPENTRY
06 20 1B.A04	POLYASH SYTHETIC TRIM
06 40 2B.A20	SOLID SURFACE SILLS
07 11 1B.A01	DAMPPROOFING
07 21 00 A01	EXTRUDED POLYSTYRENE BOARD INSULATION
07 21 00 A04	POLYISOCYANURATE INSULATION
07 25 00 A02	SELF-ADHERING WEATHER BARRIERS
07 27 29.A01	VAPOR RETARDING AIR BARRIER COATING
07 27 65.A02	TRANSITION MEMBRANE
07 27 65.A03	STOP ANGLE
07 41 1B.A01	METAL ROOF PANELS
07 41 1B.A03	UNDERLAYMENT
07 41 1B.A05	FLASHING
07 42 1B.A07	FLASHING AND TRIM
07 54 2B.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 62 00 A01	UNDERLAYMENT
07 62 00 A04	FLEXIBLE MEMBRANE CLOSURE
07 62 00 A07	DOWNSPOUTS
07 62 00 A09	SCUPPERS
07 62 00 A09	CONDUCTOR HEADS
07 62 00 A11	GRAVEL STOP
07 62 00 A12	FASCIA CAP
07 62 00 A55	PRE-FINISHED MISC METAL FLASHING
07 62 00 A56	CLEAT
07 92 00 A01	SEALANT
07 92 00 A02	SEALANT W/BACKER ROD
08 41 1B.A01	STOREFRONT FRAMING (THERMAL BROKEN)
08 41 1B.A07	ALUMINUM SUBSILL
08 41 1B.A11	JAMB CLOSURE MEMBRANE
08 44 1B.A01	ALUMINUM CURTAIN WALL
08 44 1B.A05	JAMB CLOSURE MEMBRANE

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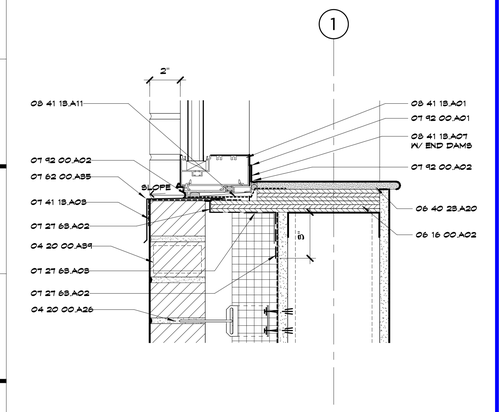

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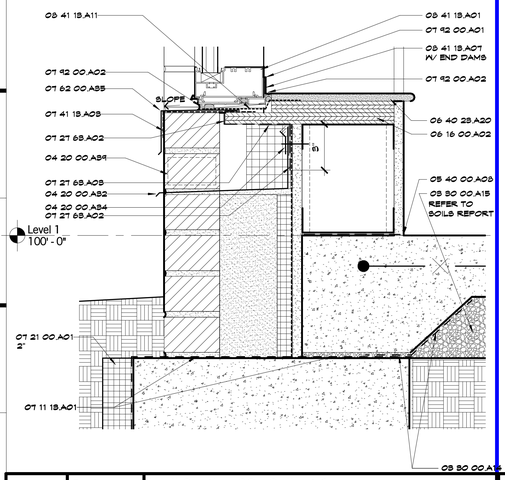
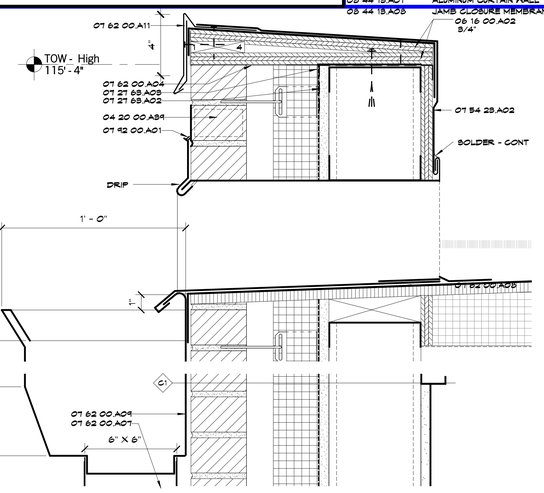
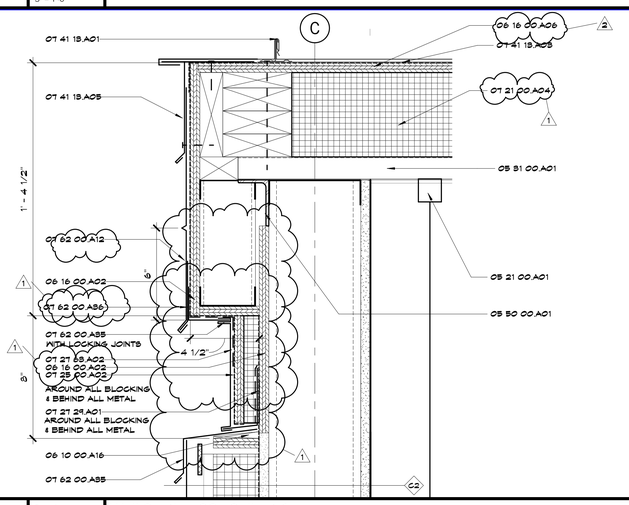


A1 | Scale 3" = 1'-0" | Wall Section 08 - Callout 1

A5 | Scale 3" = 1'-0" | Wall Section 11 - Callout 3



F13 | Scale 3" = 1'-0" | Wall Section 09 - Callout 1



A13 | Scale 3" = 1'-0" | Wall Section 06 - Callout 1

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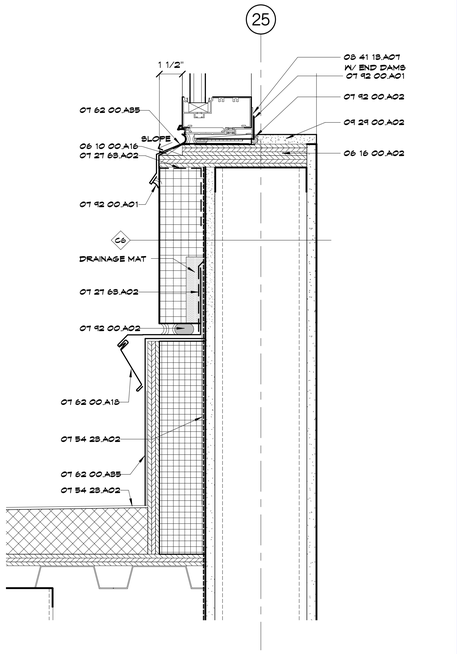
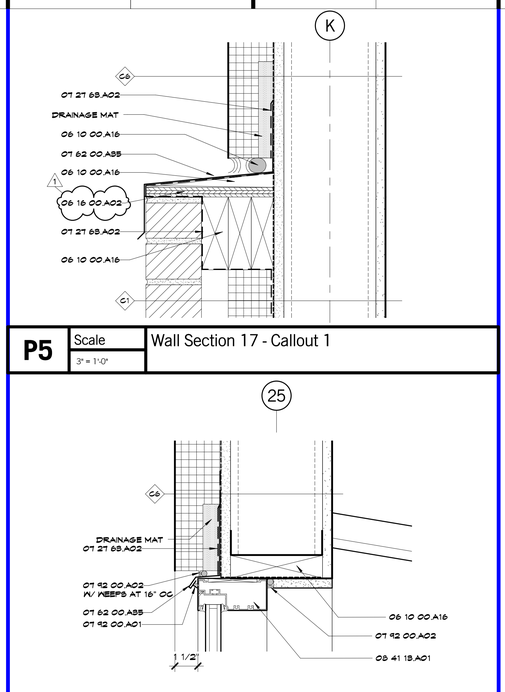


K1 | Scale 3" = 1'-0" | Wall Section 18 - Callout 4



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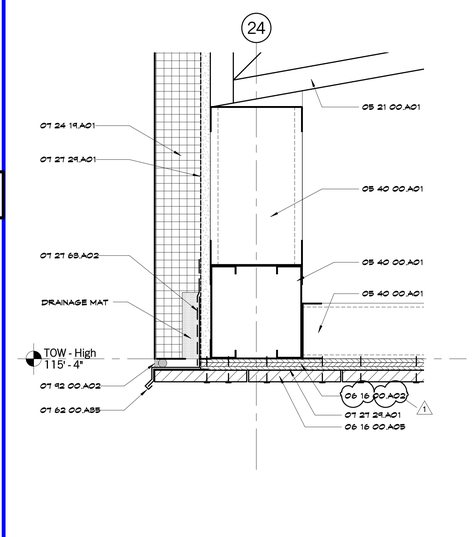

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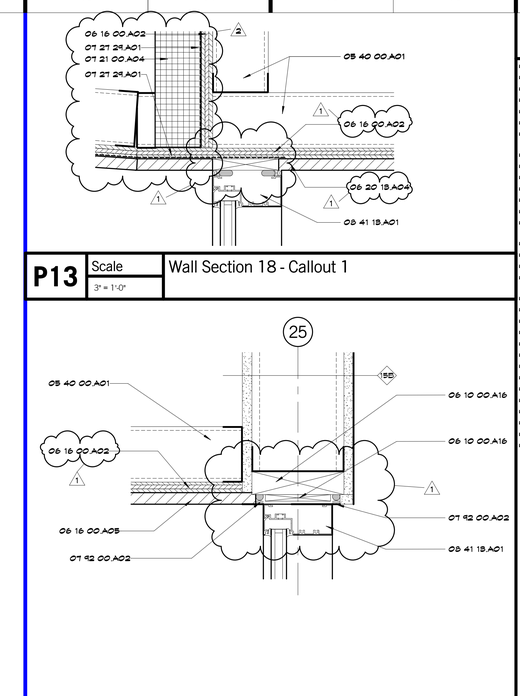
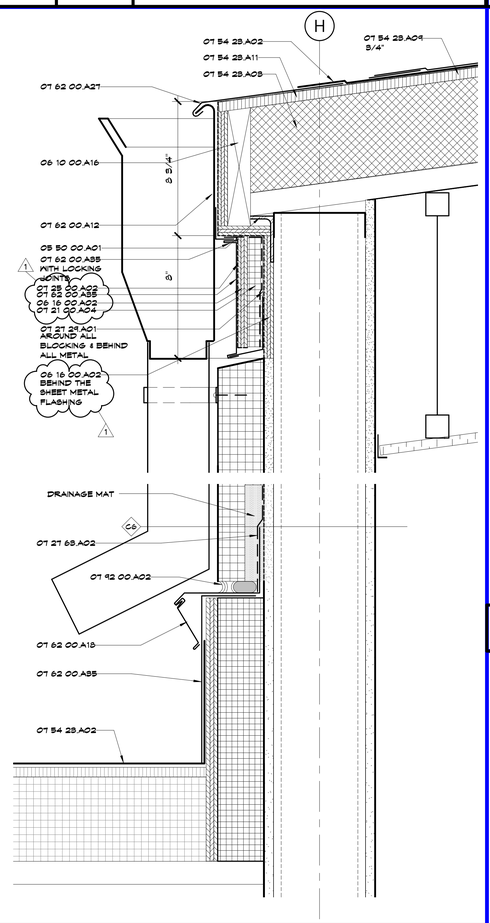
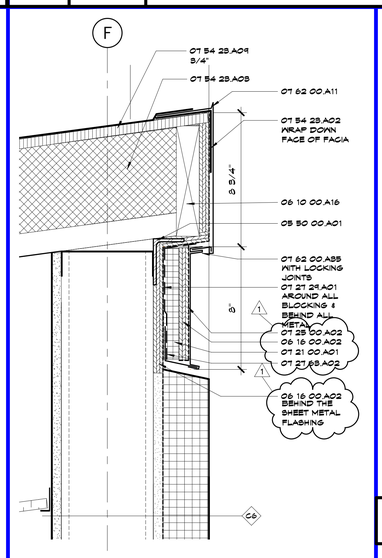


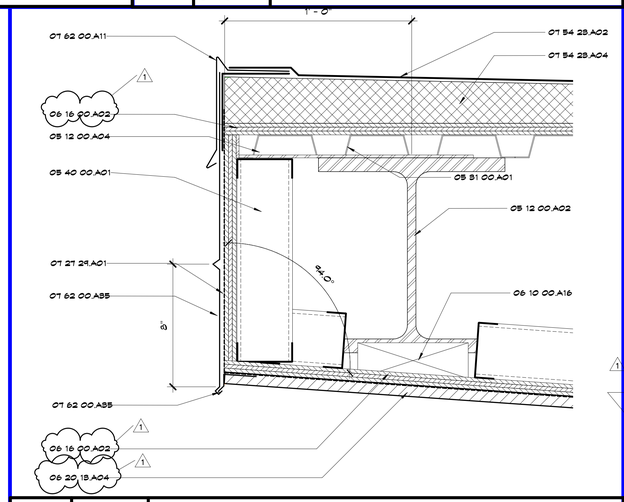
K13 | Scale 3" = 1'-0" | Wall Section 18 - Callout 2



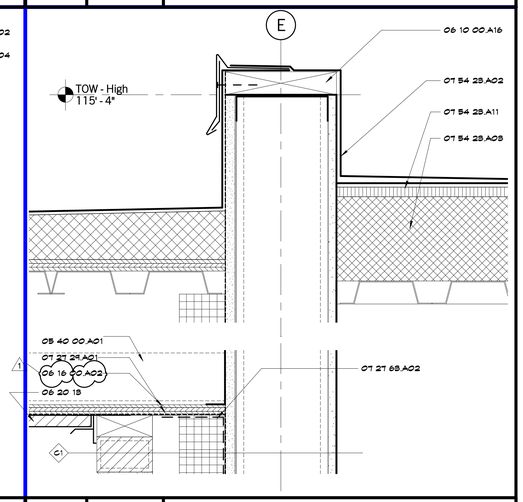
A1 | Scale 3" = 1'-0" | Wall Section 15 - Callout 1



D5 | Scale 3" = 1'-0" | Wall Section 15 - Callout 2



E8 | Scale 3" = 1'-0" | Wall Section 19 - Callout 1



E13 | Scale 3" = 1'-0" | Wall Section 19 - Callout 2

SHEET KEYNOTE LEGEND

05 12 00.A02	W SHAPE
05 12 00.A04	ANGLE
05 21 00.A01	STEEL JOIST
05 31 00.A01	ROOF DECK
05 40 00.A01	COLD-FORMED METAL FRAMING
05 50 00.A01	MISC STEEL FRAMING/SUPPORTS
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A05	CEMENTITIOUS WALL SHEATHING
06 20 13	EXTERIOR FINISH CARPENTRY
06 20 19.A04	POLYASH SYTHETIC TRIM
07 21 00.A01	EXTRUDED POLYSTYRENE BOARD INSULATION
07 21 00.A04	POLYISOCYANURATE INSULATION
07 24 19.A01	DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 27 29.A01	VAPOR RETARDING AIR BARRIER COATING
07 27 68.A02	TRANSITION MEMBRANE
07 54 28.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 54 28.A03	ROOF INSULATION
07 54 28.A04	TAPERED ROOF INSULATION
07 54 28.A09	SUBSTRATE BOARD
07 54 28.A11	COVERBOARD
07 62 00.A11	GRAVEL STOP
07 62 00.A12	FASCIA CAP
07 62 00.A18	COUNTER FLASHING
07 62 00.A27	DRIP EDGES
07 62 00.A85	PRE-FINISHED MISC METAL FLASHING
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 41 18.A01	STOREFRONT FRAMING (THERMAL BROKEN)
08 41 18.A07	ALUMINUM SUBSILL
09 29 00.A02	GYPSUM BOARD - TYPE X

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

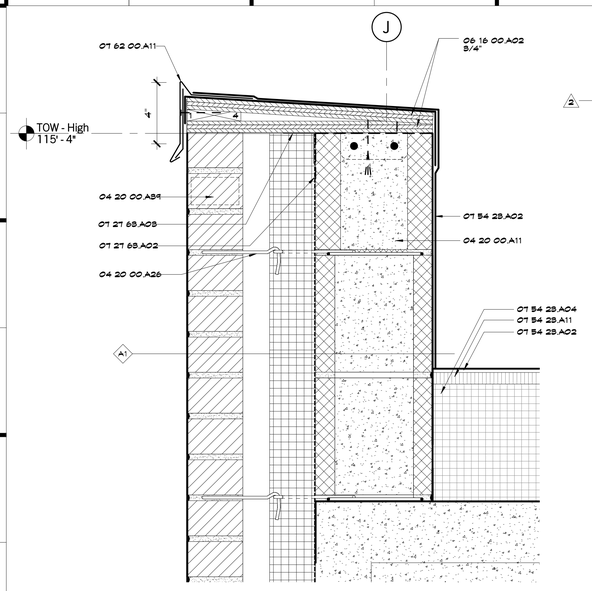
A363

_____ OF _____

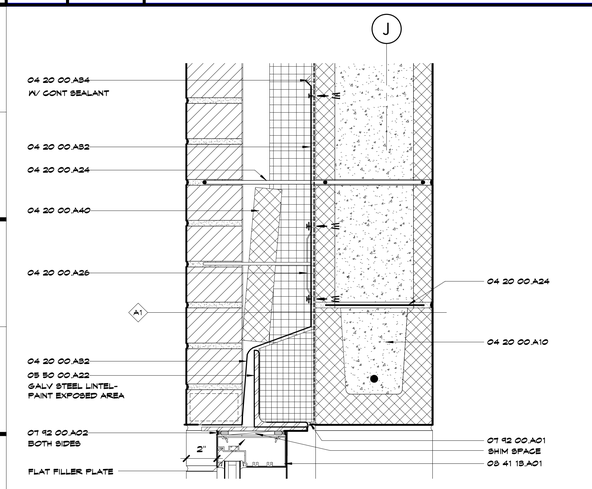
EXTERIOR DETAILS

10/24/2016 4:58:11 PM

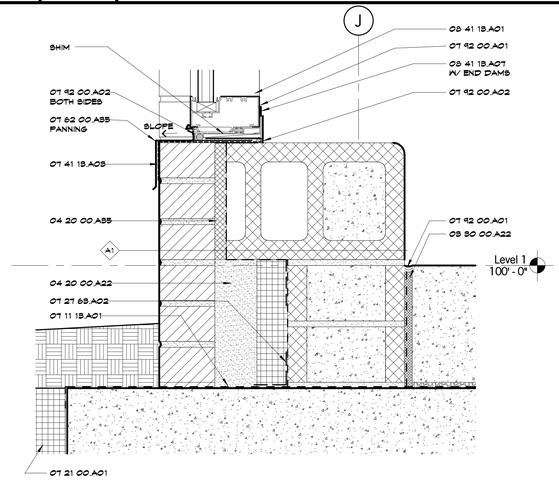
Please consider the environment before printing this.



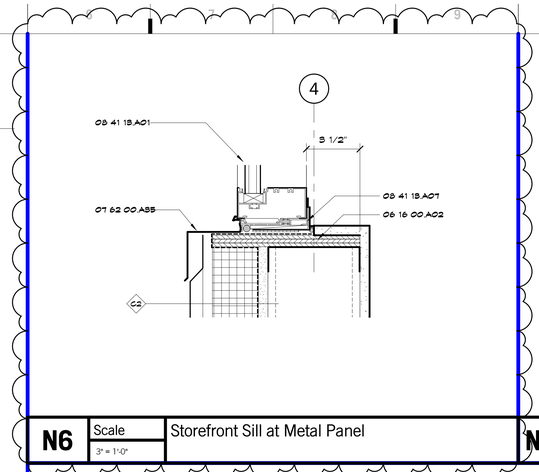
L1 Scale 3" = 1'-0" — Wall Section 13 - Callout 1



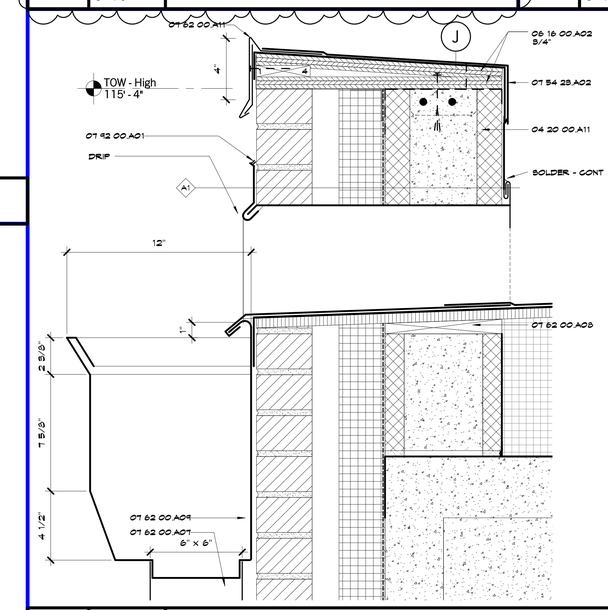
F1 Scale 3" = 1'-0" — Wall Section 13 - Callout 2



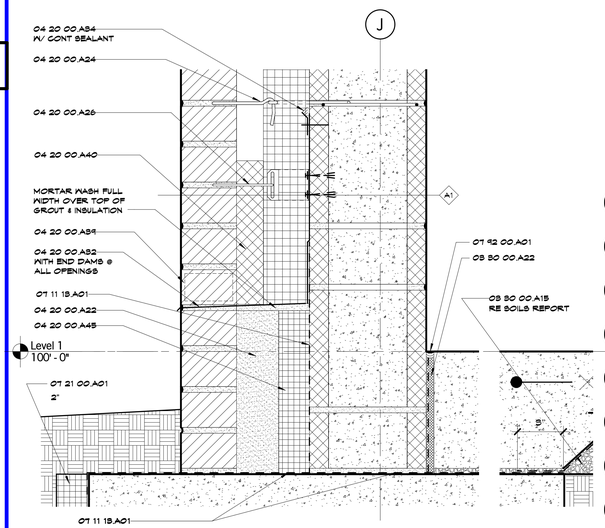
A1 Scale 3" = 1'-0" — Wall Section 13 - Callout 3



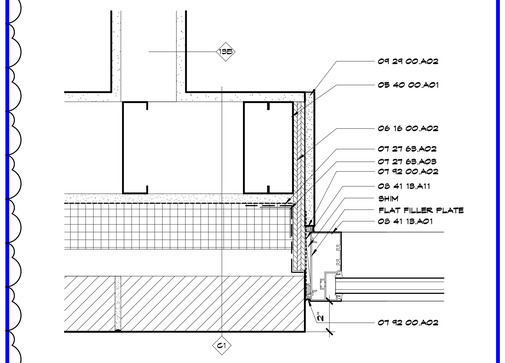
N6 Scale 3" = 1'-0" — Storefront Sill at Metal Panel



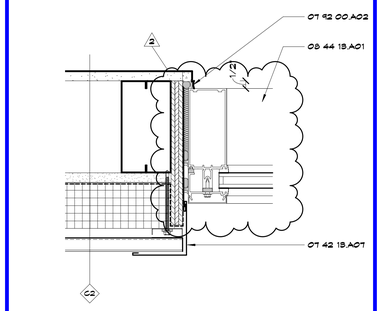
G6 Scale 3" = 1'-0" — Wall Section 14 - Callout 1



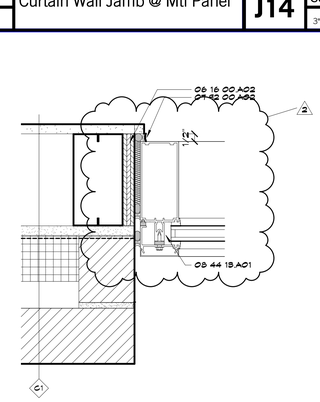
A6 Scale 3" = 1'-0" — Wall Section 14 - Callout 2



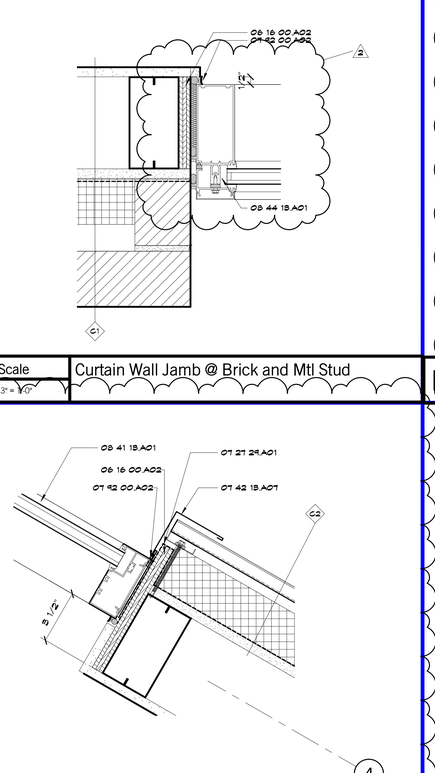
N10 Scale 3" = 1'-0" — Storefront Jamb @ Brick and Mtl Stud



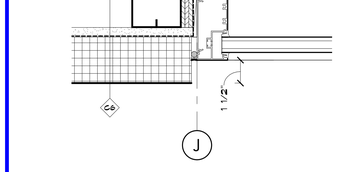
J11 Scale 3" = 1'-0" — Curtain Wall Jamb @ Mtl Panel



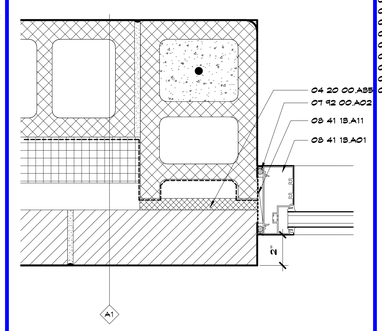
E11 Scale 3" = 1'-0" — Curtain Wall Jamb @ Brick and Mtl Stud



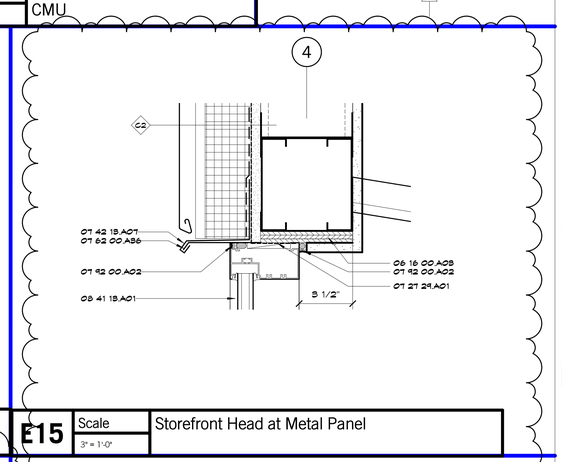
A11 Scale 3" = 1'-0" — Storefront Jamb at Metal Panel



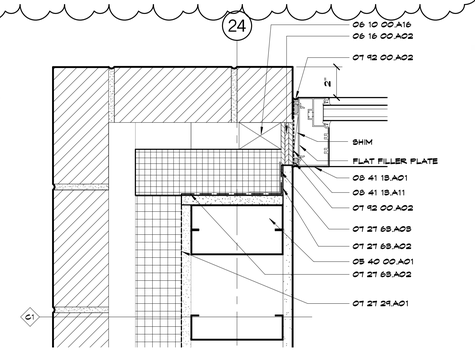
N14 Scale 3" = 1'-0" — Storefront Jamb @ EIFS



J14 Scale 3" = 1'-0" — Storefront Jamb @ Brick and CMU



E15 Scale 3" = 1'-0" — Storefront Head at Metal Panel



A15 Scale 3" = 1'-0" — Aluminum Door Jamb @ Brick & Mtl Stud

SHEET KEYNOTE LEGEND

05 50 00.A15	GRANULAR DRAINAGE FILL
05 50 00.A22	EXPANSION/ISOLATION JOINT
04 20 00.A10	MASONRY LINTELS (SITE CAST)
04 20 00.A11	MASONRY BOND BEAM
04 20 00.A22	GROUT
04 20 00.A24	MASONRY JOINT REINFORCEMENT
04 20 00.A26	ADJUSTABLE MASONRY VENEER ANCHORS
04 20 00.A32	EMBEDDED FLEXIBLE FLASHING
04 20 00.A34	FLASHING TERMINATION BARS
04 20 00.A35	COMPRESSIBLE FILLERS
04 20 00.A36	WEEP HOLE/VENT
04 20 00.A40	CAVITY DRAINAGE MATERIAL
04 20 00.A45	CAVITY WALL INSULATION
05 40 00.A01	COLD-FORMED METAL FRAMING
05 50 00.A22	LOOSE STEEL LINTEL
06 10 00.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A03	PLYWOOD WALL SHEATHING
07 11 1B.A01	DAMPPROOFING
07 21 00.A01	EXTRUDED POLYSTYRENE BOARD INSULATION
07 27 29.A01	VAPOR RETARDING AIR BARRIER COATING
07 27 68.A02	TRANSITION MEMBRANE
07 27 68.A03	STOP ANGLE
07 41 1B.A03	UNDERLAYMENT
07 42 1B.A07	FLASHING AND TRIM
07 54 23.A02	MECHANICALLY-FASTENED TPO MEMBRANE ROOFING SYSTEM
07 54 23.A04	TAPERED ROOF INSULATION
07 54 23.A11	COVERBOARD
07 62 00.A07	DOWNSPOUTS
07 62 00.A09	SCUPPERS
07 62 00.A09	CONDUCTOR HEADS
07 62 00.A11	GRAVEL STOP
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A56	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 41 1B.A01	STOREFRONT FRAMING (THERMAL BROKEN)
08 41 1B.A07	ALUMINUM SUBSILL
08 41 1B.A11	JAMB CLOSURE MEMBRANE
08 44 1B.A01	ALUMINUM CURTAIN WALL
09 29 00.A02	GYPSUM BOARD - TYPE X

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Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

A364

OF

EXTERIOR DETAILS

10/24/2016 4:58:12 PM

DOOR SCHEDULE

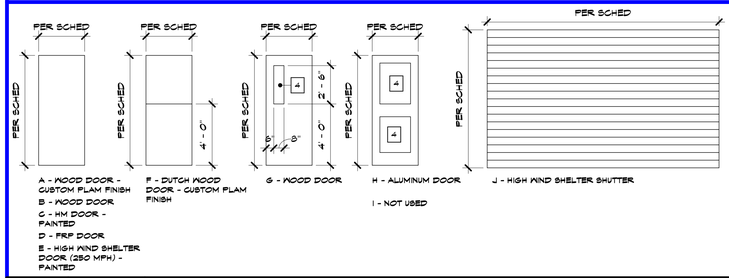
DOOR Number	DOOR Size	Type	Frame Type	Frame Material	All DETAILS on A501 UNO Head	Strike	Hinge	Thresh	Fire Rating	Remarks
A101a	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L5/A562	E11/A564	--	A6/A561	--	
A101b	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	E11/A501	M5/A565	--	--	--	
A102a	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	E11/A501	A14/A501	--	--	--	
A102b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	E11/A501	A14/A501	--	--	--	
A103	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A104	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A105	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A106	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A107	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A109	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A111a	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
A111b	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
A112	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
A113	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
A114	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A115	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A116a	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A116b	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A117	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
A118	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
A121a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	1
A122a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	1
A122b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	1
A128a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	1
A128b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	1
A124a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	1
A124b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	1
A125a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	1
A126	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	2
A127	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	2
A129	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	2
A129a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	2
B101a	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L5/A562	J11/A564	J11/A564	A5/A562	--	
B101b	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L5/A562	J11/A564	J11/A564	A5/A562	--	
B106	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
B107	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
B108	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
B109	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
B110a	FR 4'-0" x 7'-10" x 1 3/4"	E	1A	HM	L14	L14	L14	--	--	
B110b	FR 4'-0" x 7'-10" x 1 3/4"	E	1A	HM	L14	L14	L14	--	--	
B111a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	L14	L14	L14	--	--	3
B111c	15'-1 1/2" x 9'-0" HIGH WIND SHUTTER	J	--	--	D11	A8	A11	H17	--	
B112a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	3
B112b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	3
B113a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	3
B113b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	3
B114a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	3
B114b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	3
B115a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	L14	L14	L14	--	--	3
B115c	15'-1 1/2" x 9'-0" HIGH WIND SHUTTER	J	--	--	D11	A8	A11	H17	--	
B121a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	4
B122a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	4
B122b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	5
B123a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	4
B123b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	5
B124a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	4
B124b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	5
B125a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	5
B126a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	L14	L14	L14	--	--	3
B126c	15'-1 1/2" x 9'-0" HIGH WIND SHUTTER	J	--	--	D11	A8	A11	H17	--	
B127a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	3
B127b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	3
B128a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	3
B128b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	3
B129a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	3
B129b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	3
B130a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	3
B130c	15'-1 1/2" x 9'-0" HIGH WIND SHUTTER	J	--	--	D11	A8	A11	H17	--	
B131a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	4
B132a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	4
B132b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	5
B133a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	4
B133b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	5
B134a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	4
B134b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	5
B135a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	5
C100a	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	K18/A565	A15/A564	--	A6/A561 SIM	--	
C100b	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	K18/A565	A15/A564	A14	--	--	
C101	FR 3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	K5/A565	A15/A564	A15/A564 SIM	A6/A561 SIM	--	
C102	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
C103	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	--	--	--	
C104	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	--	--	--	
C105	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
C106	3'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
C107a	4'-0" x 7'-2" x 1 3/4"	G	1	HM	H14	D14	D14	--	--	
C107b	4'-0" x 7'-2" x 1 3/4"	D	1	ALUM	L1/A562	N10/A564 SIM	N10/A564 SIM			
C108	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
C109	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
C110a	3'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	45 MIN	
C110b	4'-0" x 7'-2" x 1 3/4"	D	1	ALUM	L1/A562	N10/A564 SIM	N10/A564 SIM			
C111	4'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
C112	4'-0" x 7'-2" x 1 3/4"	B	1	HM	H14	D14	D14	--	--	
C115	FR 4'-0" x 7'-10" x 1 3/4"	C	1	HM	H14	D14	D14	--	--	
C116a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	6
C116a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	6
C116b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	6
C120a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	6
C120b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	6
C121a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	6
C121b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	6
C122a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	6
C123a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	7
C124	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	7
C125	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	7
C126	3'-0" x 7'-2" x 1 3/4"	F	5	HM	H14	D14	D14	--	--	7
C127a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	6
C128a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	6
C128b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	6
C129a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	6
C129b	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	6
C130a	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	6
C130b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	6
C131a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	6
C132a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	7
C133	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	7
C134	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	7
C135	3'-0" x 7'-2" x 1 3/4"	F	5	HM	H14	D14	D14	--	--	7

DOOR SCHEDULE - ALTERNATE 1

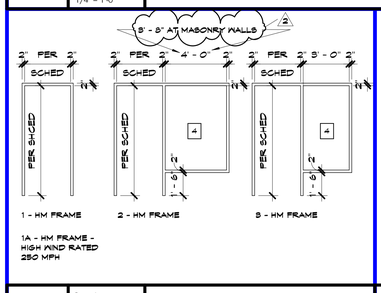
DOOR Number	DOOR Size	Type	Frame Type	Frame Material	All DETAILS on A003 UNO Head	Strike	Hinge	Thresh	Fire Rating	Remarks
A121b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
A125b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
A129b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
B111b	3'-0" x 7'-2" x 1 3/4"	E	1A	HM	L1/A562 SIM	N10/A564 SIM	N10/A564 SIM	A6/A561 SIM	--	
B115b	3'-0" x 7'-2" x 1 3/4"	E	1A	HM	L1/A562 SIM	A15/A564 SIM	N10/A564 SIM	A6/A561 SIM	--	
B121b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
B125b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
B126b	3'-0" x 7'-2" x 1 3/4"	E	1A	HM	L1/A562 SIM	N10/A564 SIM	N10/A564 SIM	A6/A561 SIM	--	
B130b	3'-0" x 7'-2" x 1 3/4"	E	1A	HM	L1/A562 SIM	N10/A564 SIM	N10/A564 SIM	A6/A561 SIM	--	
B131b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
B135b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
C118b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
C122b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
C126b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
C128b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	
C132b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	

DOOR SCHEDULE - ALTERNATE 2

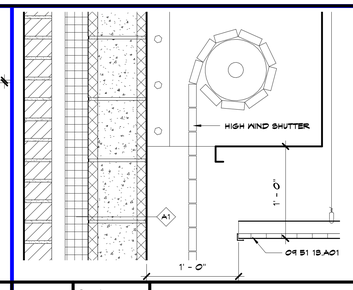
DOOR Number	DOOR Size	Type	Frame Type	Frame Material	All DETAILS on A003 UNO Head	Strike	Hinge	Thresh	Fire Rating	Remarks
A132a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	1
A132b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	1
A135a	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	1
A135b	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	1
A134a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	1
A135a	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	1
A135b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	1
A135b	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	1
A136a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	1
A136b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	1
A137	3'-0" x 7'-2" x 1 3/4"	A	5	HM	H14	D14	D14	--	--	2
A138	3'-0" x 7'-2" x 1 3/4"	A	1	HM	H14	D14	D14	--	--	2
A139	3'-0" x 7'-2" x 1 3/4"	F	1	HM	H14	D14	D14	--	--	2
A140a	3'-0" x 7'-2" x 1 3/4"	A	2	HM	H14	D14	D14	--	--	2
B140b	3'-0" x 7'-2" x 1 3/4"	H	--	ALUM	L1/A562	N10/A564	N10/A564	A6/A561 SIM	--	2



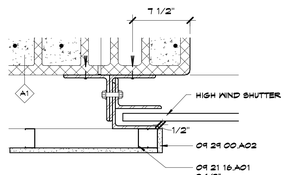
A1 Scale 1/4" = 1'-0" — Door Types



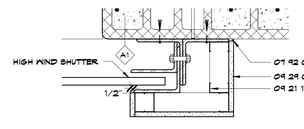
D8 Scale 1/4" = 1'-0" — HM Frame Types



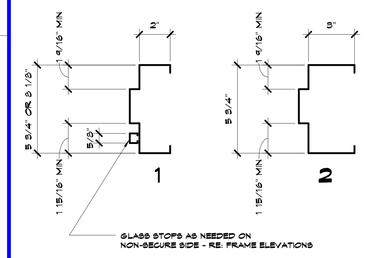
D11 Scale 1 1/2" = 1'-0" — High Wind Shutter Head



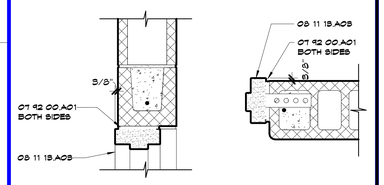
A8 Scale 1 1/2" = 1'-0" — High Wind Shutter Jamb 1



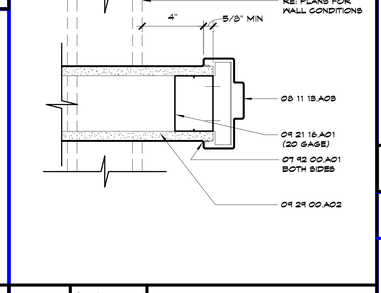
A11 Scale 1 1/2" = 1'-0" — High Wind Shutter Jamb 2



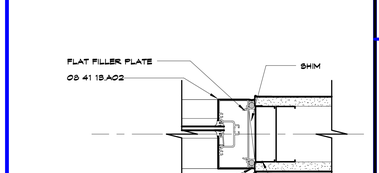
P14 Scale 3" = 1'-0" — HM Frame Profiles



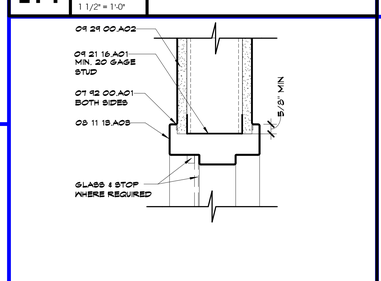
L14 Scale 1 1/2" = 1'-0" — HM Head & Jamb @ CMU



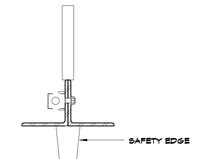
D14 Scale 3" = 1'-0" — HM Jamb @ Metal Stud



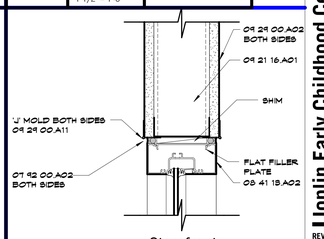
A14 Scale 3" = 1'-0" — Storefront Jamb @ Stud Wall (Interior)



H14 Scale 3" = 1'-0" — HM Head @ Metal Stud



H17 Scale 1 1/2" = 1'-0" — High Wind Shutter Sill



E17 Scale 3" = 1'-0" — Head @ Stud Wall (Interior)

SHEET KEYNOTE LEGEND

07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 11 18.A03	HOLLOW METAL FRAME
08 41 18.A02	STOREFRONT FRAMING (NON-THERMAL BROKEN)
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A11	GYPSUM BOARD TRIM
09 51 18.A01	ACOUSTICAL CEILING PANELS

GLASS LEGEND

1	LOW-E INSULATED GLASS - 08 80 00.A17
2	LOW-E FULLY-TEMPERED GLASS - 08 80 00.A18
5	CLEAR MONOLITHIC FLOAT GLASS - 08 80 00.A01
4	CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS - 08 80 00.A02

DOOR SCHEDULE REMARKS

1. HOLLOW METAL FRAME TO BE PAINTED BELLA ROSA #10RR 18/274. DOOR TO BE PLASTIC LAMINATE SATIN SERENADE Z4271.
2. HOLLOW METAL FRAME TO BE PAINTED CELEBRATION #25YR 84/473. DOOR TO BE PLASTIC LAMINATE FRESH SALMON Z4271.
3. HOLLOW METAL FRAME TO BE PAINTED CARDTENE #7YR 44/442. DOOR TO BE PLASTIC LAMINATE EGYPTIAN SUN Z4271.
4. HOLLOW METAL FRAME TO BE PAINTED DANDELION #35YY 64/689. DOOR TO BE PLASTIC LAMINATE SUN RAYS Z4271.
5. HOLLOW METAL FRAME TO BE PAINTED KIWI FUN #3G5Y 40/531. DOOR TO BE PLASTIC LAMINATE SWEET LEAF Z4271.
6. HOLLOW METAL FRAME TO BE PAINTED MARINE BLUE #5BGG 32/346. DOOR TO BE PLASTIC LAMINATE SOUTH SEAS Z4271.
7. HOLLOW METAL FRAME TO BE PAINTED INDIAN BEAD #10BG 81/382. DOOR TO BE PLASTIC LAMINATE BESIDE THE OCEAN Z4271.

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI — JOHN GILBERT BROWN — NUMBER A-6538 — REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

A501

_____ OF _____

DOOR SCHEDULE

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Please consider the environment before printing this.

SHEET KEYNOTE LEGEND

08 11 13.A08	HOLLOW METAL FRAME
08 41 13.A01	STOREFRONT FRAMING (THERMAL BROKEN)
08 41 13.A02	STOREFRONT FRAMING (NON-THERMAL BROKEN)
08 44 13.A01	ALUMINUM CURTAIN WALL
10 14 00.A1B	INTERIOR VINYL GRAPHICS (GLASS SUBSTRATE)
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)

GLASS LEGEND

1	LOW-E INSULATED GLASS - 08 80 00.A17
2	LOW-E FULLY-TEMPERED GLASS - 08 80 00.A1B
3	CLEAR MONOLITHIC FLOAT GLASS - 08 80 00.A01
4	CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS - 08 80 00.A02

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.25.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

A504

OF

FRAME TYPES

A1 Scale 1/4" = 1'-0" — Aluminum Frame Types

A12 Scale 1/4" = 1'-0" — HM Frame Elevations

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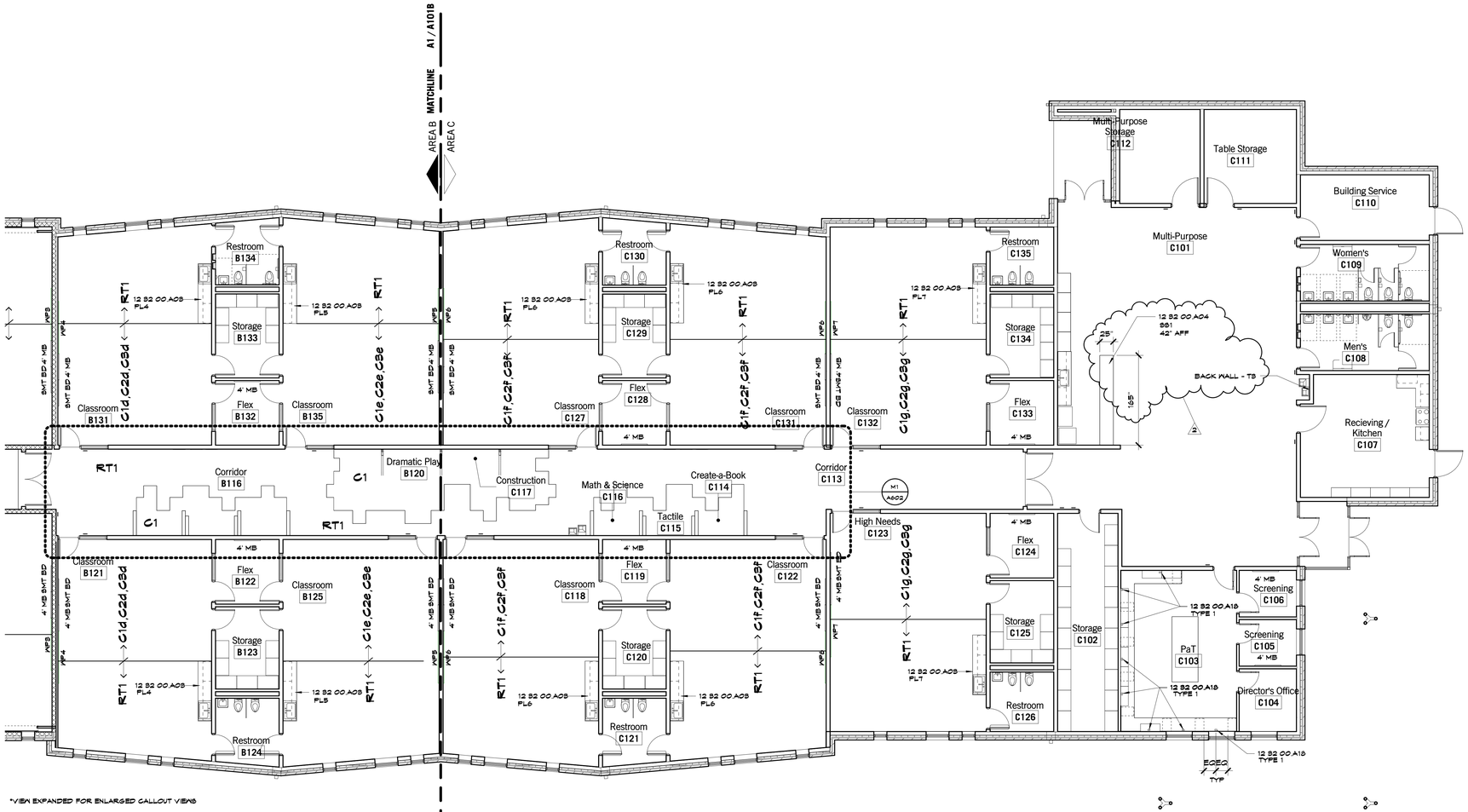
Please consider the environment before printing this.



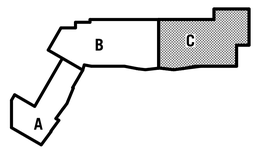
*VIEW EXPANDED FOR ENLARGED CALLOUT VIEWS

SHEET KEYNOTE LEGEND

12 32 00 AC5	PLASTIC LAMINATE COUNTERTOPS
12 32 00 AC4	SOLID SURFACING COUNTERTOPS
12 32 00 A1B	GROMMETS

ID	MATERIAL
C1a	CARPET TILE - COLORFIELD - 00728562 P2B
C1b	CARPET TILE - COLORFIELD - 00728563 P2B
C1c	CARPET TILE - COLORFIELD - 00728561 P2B
C1d	CARPET TILE - COLORFIELD - 00728560 P2B
C1e	CARPET TILE - COLORFIELD - 00728566 P2B
C1f	CARPET TILE - COLORFIELD - 00728565 P2B
C1g	CARPET TILE - COLORFIELD - 00728564 P2B
C2a	CARPET TILE - COLORFIELD - COL110-54-174 NIGHT HORIZON
C2b	CARPET TILE - COLORFIELD - COL111-146-149 FIRETHORN
C2c	CARPET TILE - COLORFIELD - COL111-136-167 BUCKTHORN
C2d	CARPET TILE - COLORFIELD - COL65-185-105 TAN AURA
C2e	CARPET TILE - COLORFIELD - COL115-75-141 COLBALT GREEN
C2f	CARPET TILE - COLORFIELD - COL120-202-65 SULPHUR SPRING
C2g	CARPET TILE - COLORFIELD - COL146-201-199 BLUE AGAVE
C3a	CARPET TILE - COLORFIELD - COL110 LOGANBERRY
C3b	CARPET TILE - COLORFIELD - COL147 CARMINE
C3c	CARPET TILE - COLORFIELD - COL105 GOLD LEAF
C3d	CARPET TILE - COLORFIELD - COL184 FLAXEN
C3e	CARPET TILE - COLORFIELD - COL141 CELANDINE
C3f	CARPET TILE - COLORFIELD - COL201 MALLARD
C3g	CARPET TILE - COLORFIELD - COL126 OCEAN MIST
C4	CARPET TILE, PLANE LOW KT225, 656 GREEN
C5	CARPET TILE, PLANE HIGH KT226, 656 GREEN
C6	CARPET TILE, DIAGONAL RELIEF KT257, 656 GREEN
C7	CARPET TILE FADE RELIEF KT233, 656 GREEN
C8	CARPET TILE, QUARRUS - ORBIT BRUSH, ORB 144-27 BOUDARY
C9	CARPET TILE, CHANGE II 08747 - PLASTIC INEVITABLE 10815 - 9"X36" PLANK
RB1	4" RESILIENT COVE BASE, 114 LUNAR DUST
RS1	RESILIENT SHEET - BIOSPEC FINE FIELDS - COLOR: ECRU 10362
RT1	LUXURY VINYL TILE, 142 KEN GARDENS
RT2	LUXURY VINYL TILE - BOLDER - 888 SCHIST
SC	SEALED CONCRETE

KEY PLAN



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EGC-000178
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Anderson Engineering
Geotechnical Engineers
COA# 00062
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Springfield, MO, 65807
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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT
9.30.16

JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

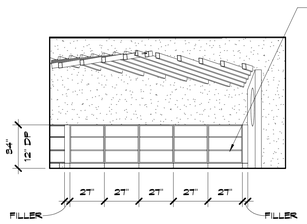
A601C

_____ OF _____

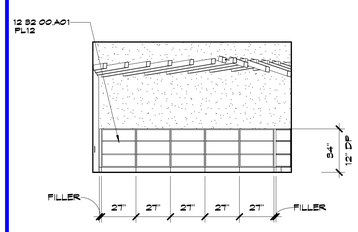
FINISH FLOOR PLAN - AREA C

A1 | Scale 1/8" = 1'-0" | Finish Floor Plan - Area C

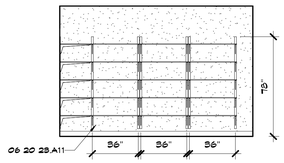
10/25/2016 11:34:38 AM



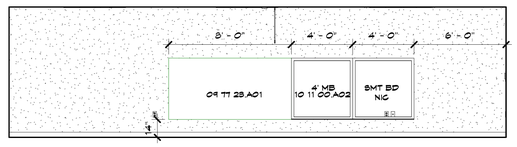
N1 | Scale 1/4" = 1'-0" | Casework Elevation - B105 Book Nook - S



N5 | Scale 1/4" = 1'-0" | Casework Elevation - Book Nook - E

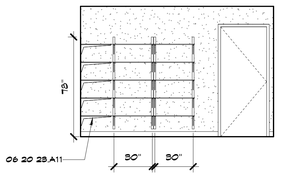


N8 | Scale 1/4" = 1'-0" | Casework Elevation - A127 Storage - S

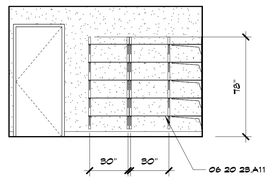


REF. ROOM FINISH SCHEDULE FOR FABRIC WRAPPED PANEL MATERIAL DESIGNATION.

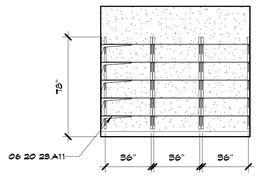
N11 | Scale 1/4" = 1'-0" | TYP Classroom Learning Wall



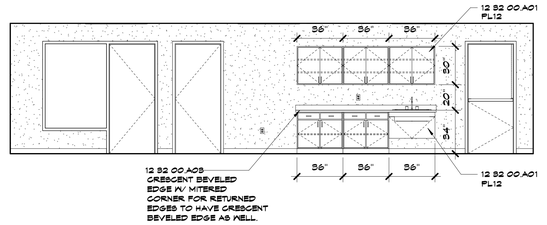
J1 | Scale 1/4" = 1'-0" | TYP Storage - South



J5 | Scale 1/4" = 1'-0" | TYP Storage - North

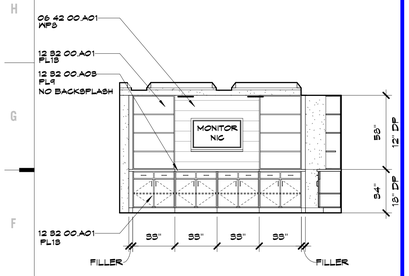


J8 | Scale 1/4" = 1'-0" | TYP Storage - East

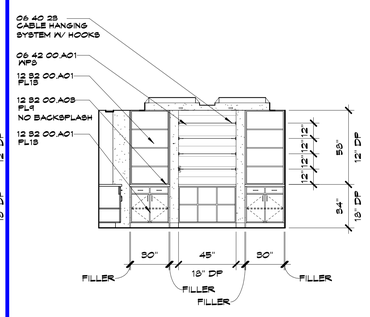


*REF FINISH FLOOR PLANS FOR COUNTERTOP PLASTIC LAMINATE.

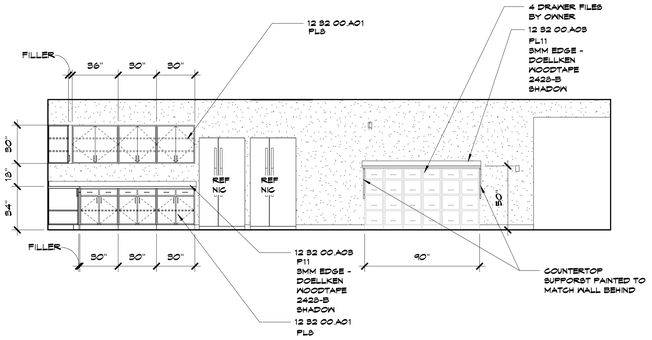
J11 | Scale 1/4" = 1'-0" | Casework Elevation - TYP Classroom Sink



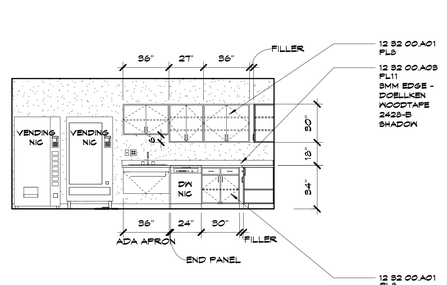
E1 | Scale 1/4" = 1'-0" | Casework Elevation - A117 Family Resource Center - S



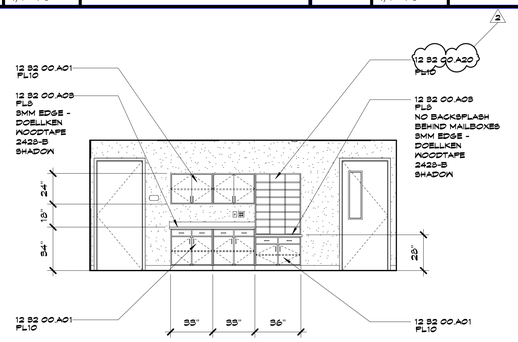
E4 | Scale 1/4" = 1'-0" | Casework Elevation - A117 Family Resource Center - W



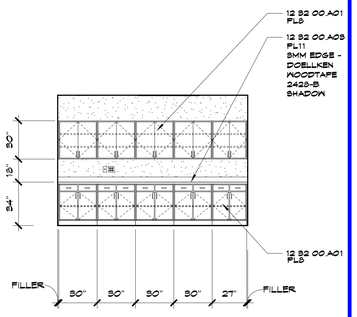
E7 | Scale 1/4" = 1'-0" | Casework Elevation - A110 Lounge - E



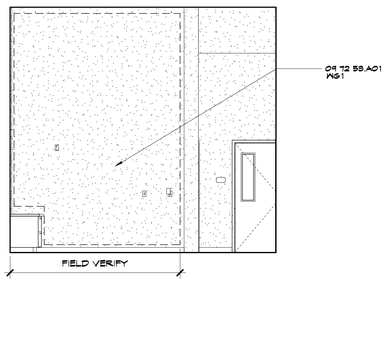
E13 | Scale 1/4" = 1'-0" | Casework Elevation - A110 Lounge - N



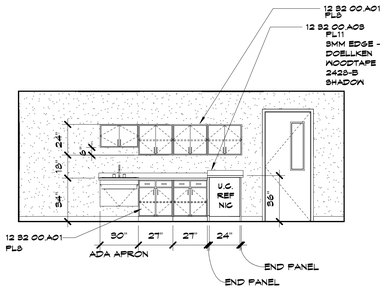
A1 | Scale 1/4" = 1'-0" | Casework Elevation - A109 Corridor - N



A6 | Scale 1/4" = 1'-0" | Casework Elevation - A108 Workroom - E



A9 | Scale 1/4" = 1'-0" | Interior Elevation - A102 Reception - S



*CABINETS TO BE LOCKABLE

A13 | Scale 1/4" = 1'-0" | Casework Elevation - A116 Nurse - S

SHEET KEYNOTE LEGEND

06 20 28.A11	SHELVING
06 40 28	INTERIOR ARCHITECTURAL WOODWORK
06 42 00 A01	BOARD PANELING
09 72 53.A01	DIGITAL WALL COVERING
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00 A02	MARKERBOARDS
12 32 00 A01	PLASTIC LAMINATE FACED CABINETS
12 32 00 A03	PLASTIC LAMINATE COUNTERTOPS
12 32 00 A20	PRE-MANUFACTURED MAIL SLOTS

ID	MATERIAL
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/245
EP3	PAINT SEMI-GLOSS, FRESH SALMON #2BYR 45/364
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/535
EP5	PAINT SEMI-GLOSS, SUN RAYS #2RYY 66/557
EP6	PAINT SEMI-GLOSS, SWEET LEAF #3GGY 51/452
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #5TGG 51/291
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #10BG 40/254
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/245
P3	PAINT EGGSHELL, FRESH SALMON #2BYR 45/364
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/535
P5	PAINT EGGSHELL, SUN RAYS #2RYY 66/557
P6	PAINT EGGSHELL, SWEET LEAF #3GGY 51/452
P7	PAINT EGGSHELL, SOUTH SEAS #5TGG 51/291
P8	PAINT EGGSHELL, BESIDE THE OCEAN #10BG 40/254
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6493 BEETIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 508 - BLACK
PL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
PL2	PLASTIC LAMINATE, FRESH SALMON Z4271
PL3	PLASTIC LAMINATE, EGYPTIAN SUN Z4271
PL4	PLASTIC LAMINATE, SUN RAYS Z4271
PL5	PLASTIC LAMINATE, SWEET LEAF Z4271
PL6	PLASTIC LAMINATE, SOUTH SEAS Z4271
PL7	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271
PL8	PLASTIC LAMINATE, D96-60 SHADOW
PL9	PLASTIC LAMINATE - 4942-38 CRISP LINEN
PL10	PLASTIC LAMINATE, 7871K-12 UPTOWN WALNUT
PL11	PLASTIC LAMINATE, 4944-38 CASUAL LINEN
PL12	PLASTIC LAMINATE, 4948-38 CLASSIC LINEN
PL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
SS1	SOLID SURFACE, M108 FIRENZE
SS2	SOLID SURFACE, 1209SM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 8"x6"
T2	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% GG58, 20% GG57, 15% GG7, 15% GG84
T3	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% GG14, 20% GG16, 15% GG22, 15% GG20
T4	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% GG04, 20% GG10, 15% GG01, 15% GG62
WG1	WALL COVERING - TWINKLE 599642 - 002
WG2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456
WG3	WALL GRAPHIC/VINYL -
WP1	FABRIC WRAPPED PANEL, 6421 METEOR, WT54
WP2	FABRIC WRAPPED PANEL, 6421 METEOR, WT14
WP3	FABRIC WRAPPED PANEL, 6421 METEOR, WT21
WP4	FABRIC WRAPPED PANEL, 6421 METEOR, WT20
WP5	FABRIC WRAPPED PANEL, 6421 METEOR, T51
WP6	FABRIC WRAPPED PANEL, 6421 METEOR, T57
WP7	FABRIC WRAPPED PANEL, 6421 METEOR, T59
WP8	BOARD PANELING - 5" HORIZONTAL SLATS - PAINTED TO MATCH PPG 1151-2 EMBELLISHMENT

HOLLOW METAL FRAME PAINT COLORS

1. PAINT TO MATCH ICI PAINTS BELLA ROSA #10RR 19/274
2. PAINT TO MATCH ICI PAINTS CELEBRATION #2BYR 34/413
3. PAINT TO MATCH ICI PAINTS CAROTENE #4YYR 44/642
4. PAINT TO MATCH ICI PAINTS DANDELION #3YYY 64/638
5. PAINT TO MATCH ICI PAINTS KIWI FUN #3GGY 40/551
6. PAINT TO MATCH ICI PAINTS MARINE BLUE #5BGG 52/348
7. PAINT TO MATCH ICI PAINTS INDIAN BEAD #10BG 51/352

CASEWORK NOTES

1. ALL EXPOSED SURFACES TO RECIEVE PLASTIC LAMINATES.
2. PROVIDE 4" BACKSPLASH UNO.
3. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS UNO.
4. DEMINSIONS SHOWN ON FLOOR PLANS ARE TO FACE OF STUD OR MAS BLOCK. FIELD VERIFY ALL DEMINSIONS TO FACE OF FINISH PRIOR TO CONSTRUCTION.
5. CASEWORK CONTRACTOR TO COORDINATE WITH PLUMBING CONTRCTOR ON PIPING LOCATIONS.
6. ALL BASE CABINETS ARE 24" DP UNO.
7. ALL UPPER CABINETS ARE 16" DP UNO.
8. ALL TALL STORAGE CABINETS ARE 24" DP UNO.

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Structure # 2006031333

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Geotechnical Engineers
COA# 00062
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417.782.7389 fax

100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

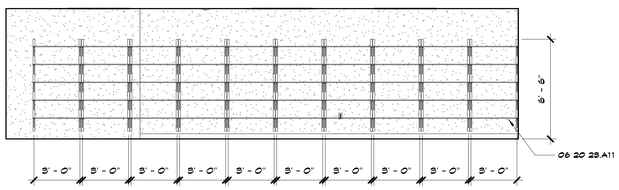
JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A621

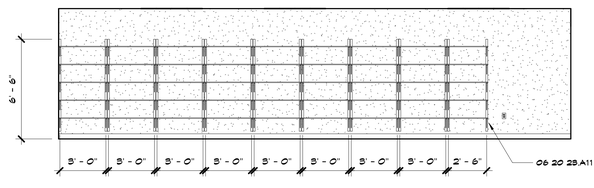
_____ OF _____

INTERIOR ELEVATIONS

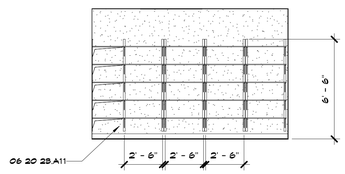
10/25/2016 11:34:46 AM



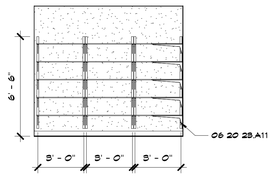
N1 | Scale 1/4" = 1'-0" | Casework Elevation - C102 Storage - E



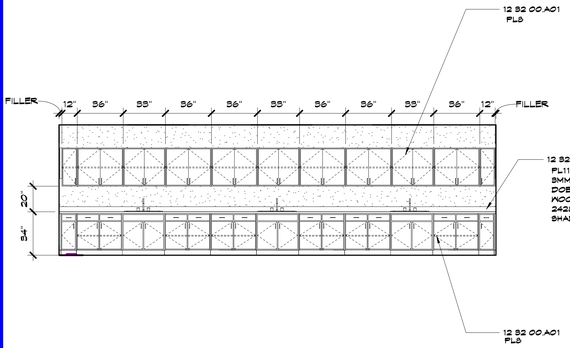
N7 | Scale 1/4" = 1'-0" | Casework Elevation - C102 Storage - W



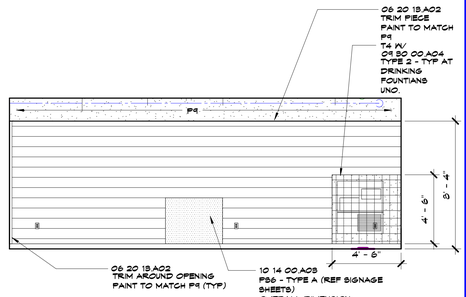
N13 | Scale 1/4" = 1'-0" | Casework Elevation - C134 Storage - N



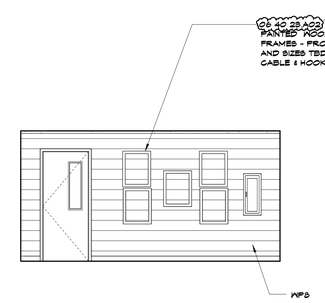
J1 | Scale 1/4" = 1'-0" | Casework Elevation - C134 Storage - W



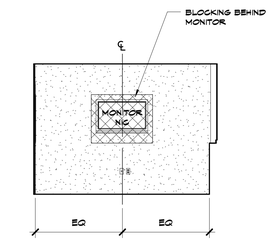
J4 | Scale 1/4" = 1'-0" | Casework Elevation - B128 Tinkering - E



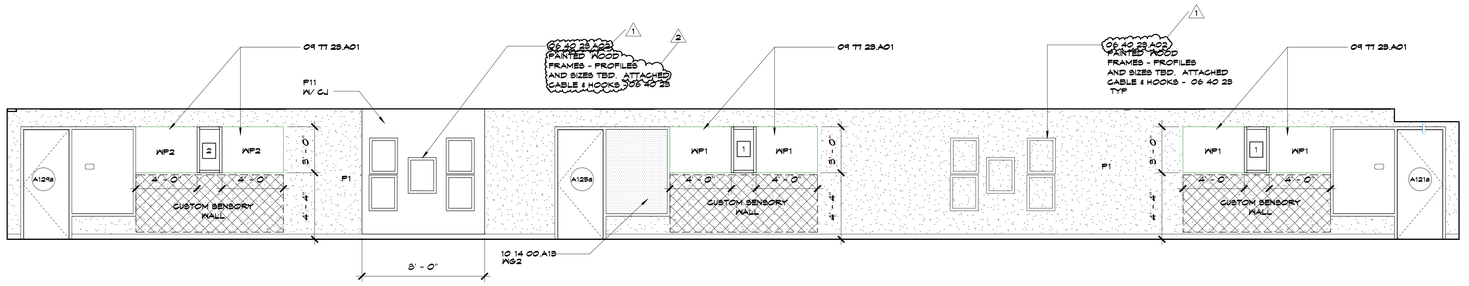
J9 | Scale 1/4" = 1'-0" | Interior Elevation - B104 Learning Grove - S



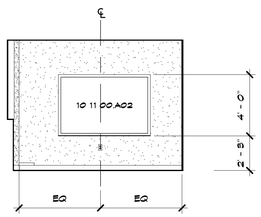
J13 | Scale 1/4" = 1'-0" | Interior Elevation - B105 Book Nook - N



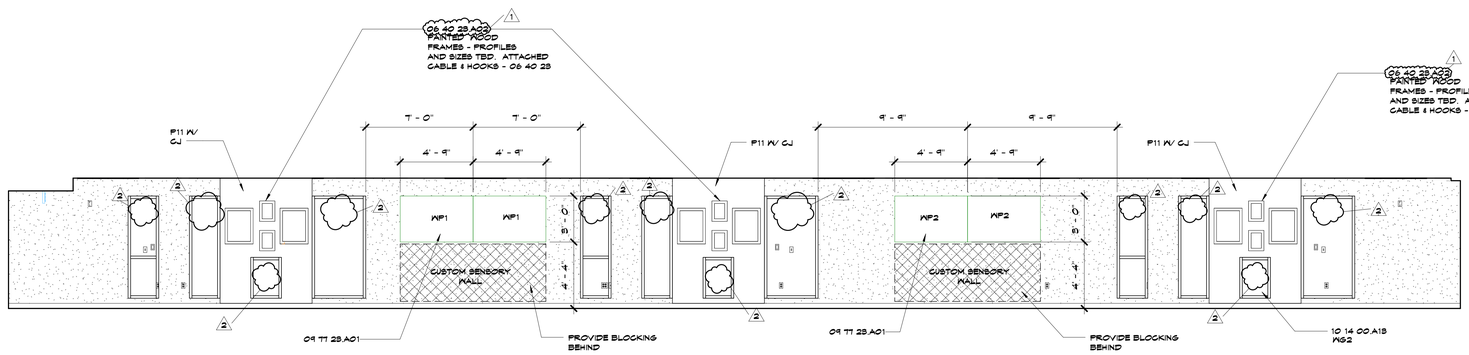
E1 | Scale 1/4" = 1'-0" | Interior Elevation - A103 Conference - N



E4 | Scale 1/4" = 1'-0" | Interior Elevation - A130 Corridor - E



A1 | Scale 1/4" = 1'-0" | Interior Elevation - A103 Conference - S



A4 | Scale 1/4" = 1'-0" | Interior Elevation - A130 Corridor - W

SHEET KEYNOTE LEGEND

06 20 13.A02	WOOD TRIM - OPAQUE
06 20 28.A11	SHELVING
06 40 28	INTERIOR ARCHITECTURAL WOODWORK
06 40 28.A02	ORNAMENTAL TRIM - OPAQUE
09 30 00.A04	METAL EDGE STRIPS
09 77 28.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 14 00.A03	PANEL SIGNS
10 14 00.A13	INTERIOR VINYL GRAPHICS (GLASS SUBSTRATE)
12 32 00.A01	PLASTIC LAMINATE FACED CABINETS
12 32 00.A03	PLASTIC LAMINATE COUNTERTOPS

ID	MATERIAL
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/245
EP3	PAINT SEMI-GLOSS, FRESH SALMON #2BYR 45/364
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/535
EP5	PAINT SEMI-GLOSS, SUN RAYS #2YY 66/537
EP6	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/452
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #57GG 51/291
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #10BG 40/284
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/245
P3	PAINT EGGSHELL, FRESH SALMON #2BYR 45/364
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/535
P5	PAINT EGGSHELL, SUN RAYS #2YY 66/537
P6	PAINT EGGSHELL, SWEET LEAF #32GY 51/452
P7	PAINT EGGSHELL, SOUTH SEAS #57GG 51/291
P8	PAINT EGGSHELL, BESIDE THE OCEAN #10BG 40/284
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6493 BEETIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 308 - BLACK
PL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
PL2	PLASTIC LAMINATE, FRESH SALMON Z4271
PL3	PLASTIC LAMINATE, EGYPTIAN SUN Z4271
PL4	PLASTIC LAMINATE, SUN RAYS Z4271
PL5	PLASTIC LAMINATE, SWEET LEAF Z4271
PL6	PLASTIC LAMINATE, SOUTH SEAS Z4271
PL7	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271
PL8	PLASTIC LAMINATE, D96-60 SHADOW
PL9	PLASTIC LAMINATE - 4942-38 CRISP LINEN
PL10	PLASTIC LAMINATE, 7871K-12 UPTOWN WALNUT
PL11	PLASTIC LAMINATE, 4948-38 CASUAL LINEN
PL12	PLASTIC LAMINATE, 4948-38 CLASSIC LINEN
PL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
SS1	SOLID SURFACE, M105 FIRENZE
SS2	SOLID SURFACE, 1209SM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 8"x6"
T2	1"x1" GLASS WALL TILE, CUSTOM BLEND: 80% GO58, 20% GO57, 15% GIO7, 15% GO84
T3	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% GO14, 20% GO16, 15% GO22, 15% GO20
T4	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% GO04, 20% GO10, 15% GO01, 15% GO62
WG1	WALL COVERING - TWINKLE 599642 - 002
WG2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456
WG3	WALL GRAPHIC/VINYL -
WP1	FABRIC WRAPPED PANEL, 6427 METEOR, WT54
WP2	FABRIC WRAPPED PANEL, 6427 METEOR, WT14
WP3	FABRIC WRAPPED PANEL, 6427 METEOR, WT21
WP4	FABRIC WRAPPED PANEL, 6427 METEOR, WT20
WP5	FABRIC WRAPPED PANEL, 6427 METEOR, T51
WP6	FABRIC WRAPPED PANEL, 6427 METEOR, T57
WP7	FABRIC WRAPPED PANEL, 6427 METEOR, T59
WP8	BOARD PANELING - 5" HORIZONTAL SLATS - PAINTED TO MATCH PPG 11B1-2 EMBELLISHMENT

HOLLOW METAL FRAME PAINT COLORS

1. PAINT TO MATCH ICI PAINTS BELLA ROSA #10RR 19/274
2. PAINT TO MATCH ICI PAINTS CELEBRATION #2BYR 34/473
3. PAINT TO MATCH ICI PAINTS CAROTENE #4YR 44/642
4. PAINT TO MATCH ICI PAINTS DANDELION #3YY 64/638
5. PAINT TO MATCH ICI PAINTS KIWI FUN #3GGY 40/551
6. PAINT TO MATCH ICI PAINTS MARINE BLUE #58GG 32/346
7. PAINT TO MATCH INDIAN BEAD #10BG 51/352

CASEWORK NOTES

1. ALL EXPOSED SURFACES TO RECEIVE PLASTIC LAMINATES.
2. PROVIDE 4" BACKSPLASH UNO.
3. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS UNO.
4. DIMENSIONS SHOWN ON FLOOR PLANS ARE TO FACE OF STUD OR MAS BLOCK. FIELD VERIFY ALL DEMINSIONS TO FACE OF FINISH PRIOR TO CONSTRUCTION.
5. CASEWORK CONTRACTOR TO COORDINATE WITH PLUMBING CONTRCTOR ON PIPING LOCATIONS.
6. ALL BASE CABINETS ARE 24" DP UNO.
7. ALL UPPER CABINETS ARE 16" DP UNO.
8. ALL TALL STORAGE CABINETS ARE 24" DP UNO.

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

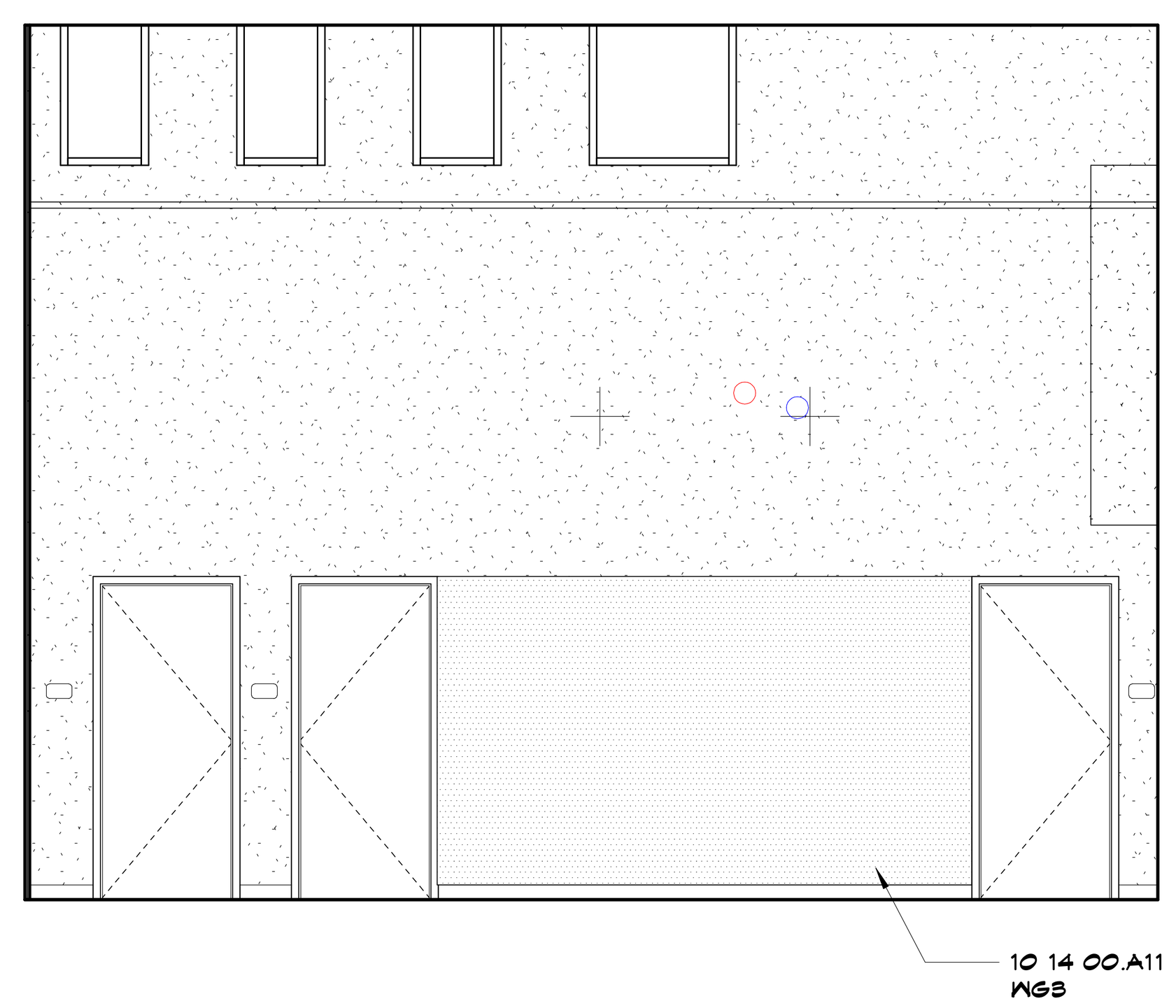
JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A622

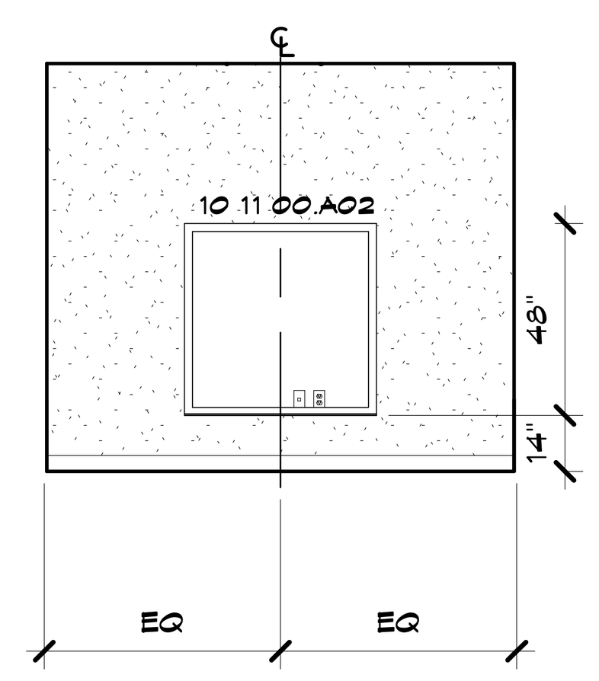
_____ OF _____

INTERIOR ELEVATIONS

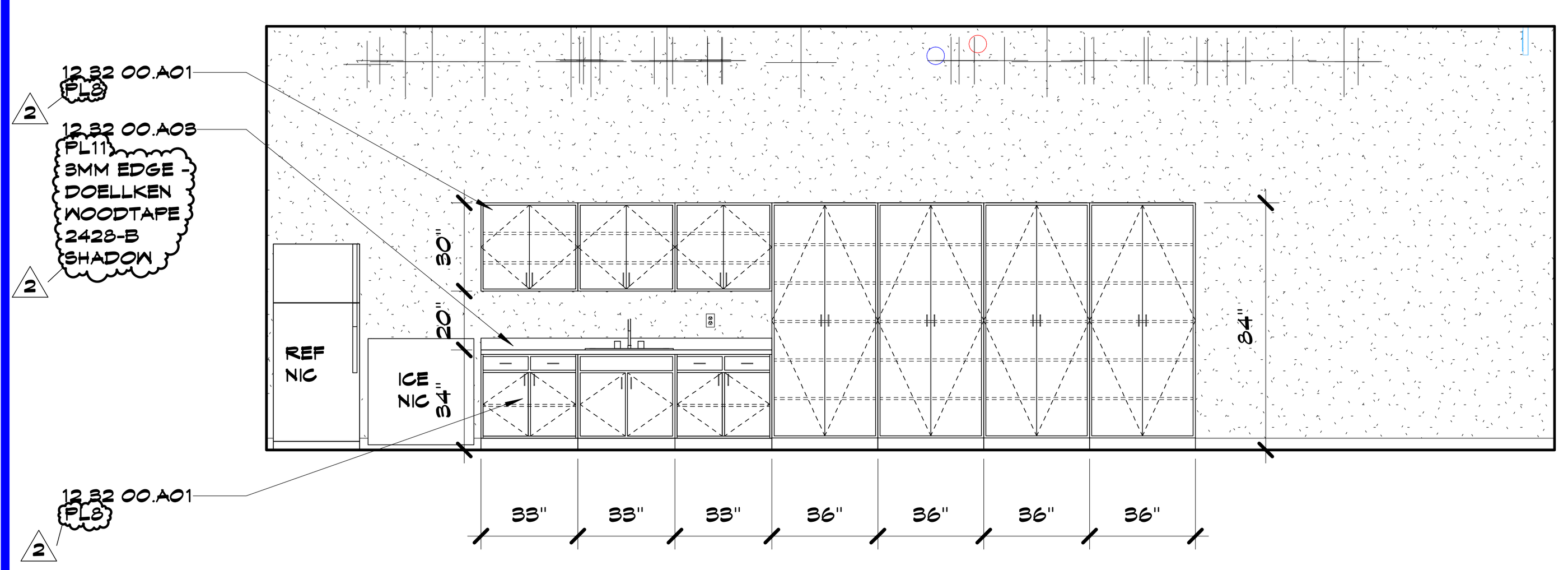
10/25/2016 11:34:53 AM



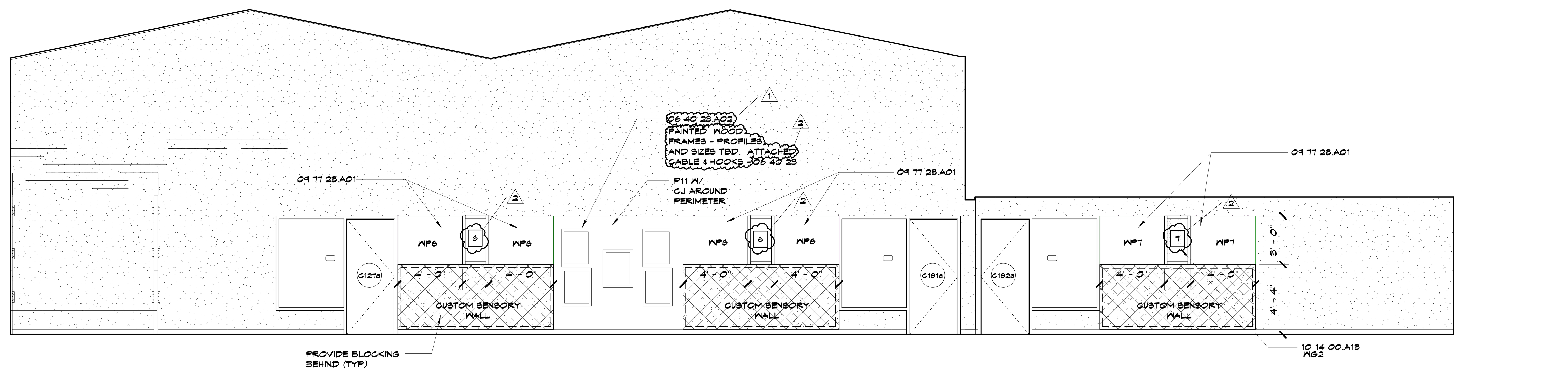
H1 Scale 1/4" = 1'-0" — Interior Elevation - C101 Multi Purpose - E



N7 Scale 1/4" = 1'-0" — TYP Flex Teaching Wall

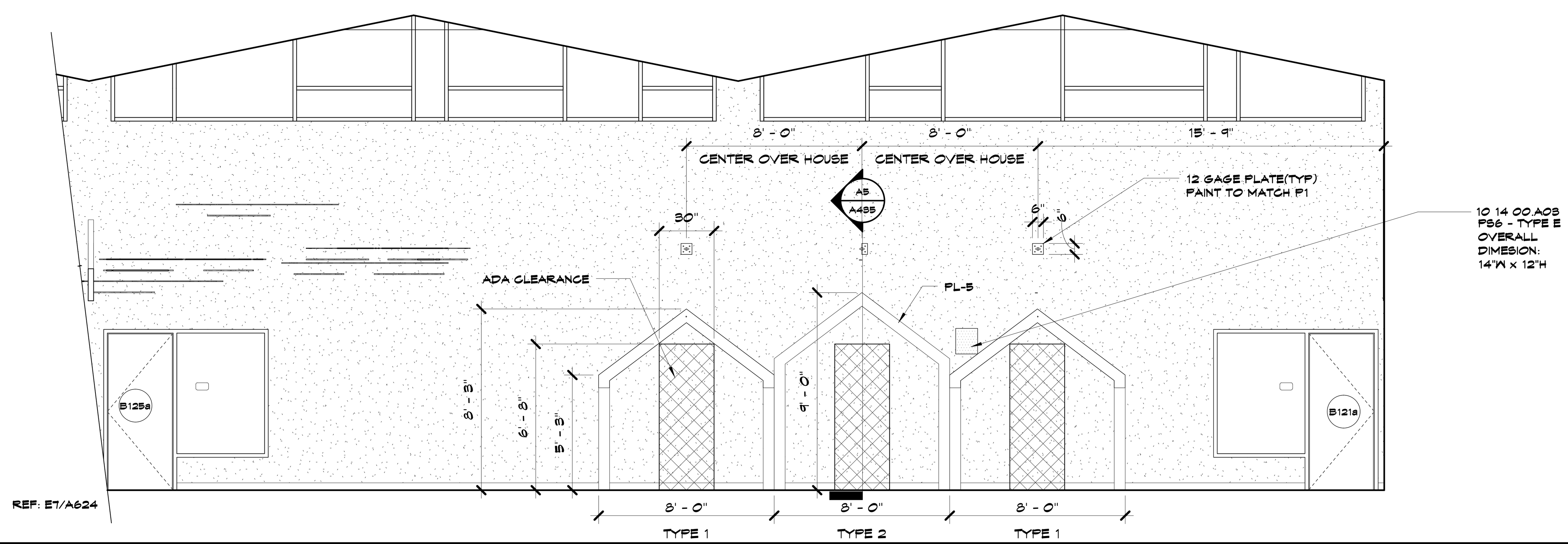


N10 Scale 1/4" = 1'-0" — Casework Elevation - C101 Multi-Purpose - W

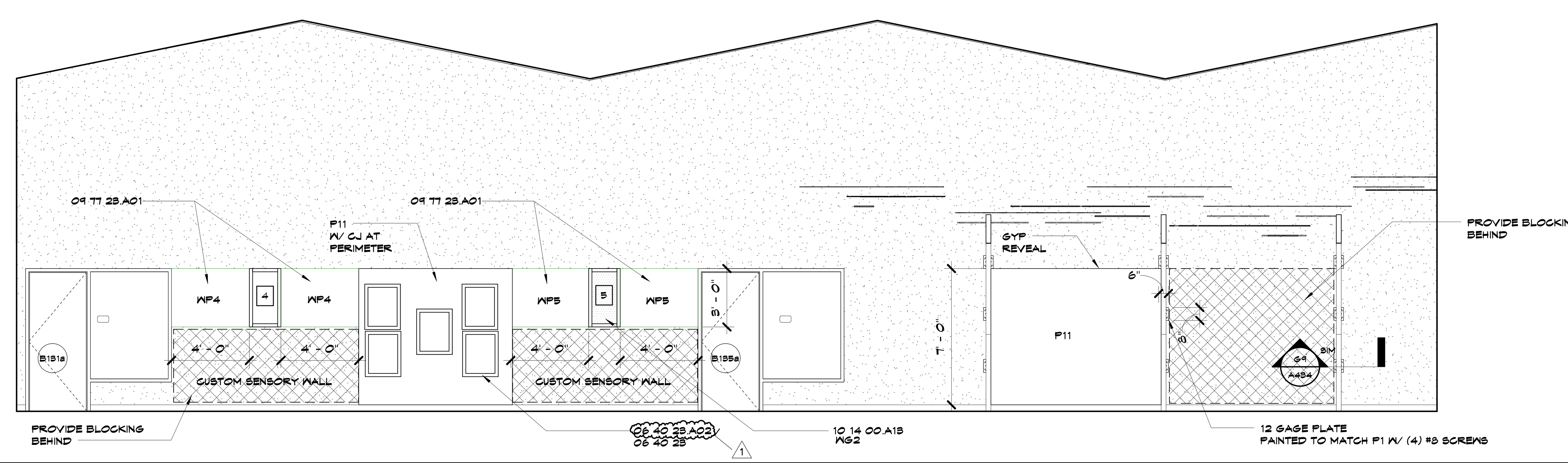


J1 Scale 1/4" = 1'-0" — Interior Elevation - C113 Corridor - N

A1 Scale — Learning Garden - For Reference Only



E6 Scale 1/4" = 1'-0" — Interior Elevation - B147 Corridor - S



A6 Scale 1/4" = 1'-0" — Interior Elevation - B147 Corridor - N

SHEET KEYNOTE LEGEND

06 40 23	INTERIOR ARCHITECTURAL WOODWORK
06 40 23.A02	ORNAMENTAL TRIM - OPAQUE
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 14 00.A03	PANEL SIGNS
10 14 00.A11	INTERIOR VINYL GRAPHICS (SMOOTH SUBSTRATE)
10 14 00.A13	INTERIOR VINYL GRAPHICS (GLASS SUBSTRATE)
12 32 00.A01	PLASTIC LAMINATE FACED CABINETS
12 32 00.A03	PLASTIC LAMINATE COUNTERTOPS

ID	MATERIAL
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/248
EP3	PAINT SEMI-GLOSS, FRESH SALMON #23YR 45/369
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/583
EP5	PAINT SEMI-GLOSS, SUN RAYS #29YY 66/537
EP6	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/432
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #87GG 51/291
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #70BG 40/284
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/248
P3	PAINT EGGSHELL, FRESH SALMON #23YR 45/369
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/583
P5	PAINT EGGSHELL, SUN RAYS #29YY 66/537
P6	PAINT EGGSHELL, SWEET LEAF #32GY 51/432
P7	PAINT EGGSHELL, SOUTH SEAS #87GG 51/291
P8	PAINT EGGSHELL, BESIDE THE OCEAN #70BG 40/284
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6493 EBBTIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 308 - BLACK
PL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
PL2	PLASTIC LAMINATE, FRESH SALMON Z4271
PL3	PLASTIC LAMINATE, EGYPTIAN SUN Z4271
PL4	PLASTIC LAMINATE, SUN RAYS Z4271
PL5	PLASTIC LAMINATE, SWEET LEAF Z4271
PL6	PLASTIC LAMINATE, SOUTH SEAS Z4271
PL7	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271
PL8	PLASTIC LAMINATE, D96-60 SHADOW
PL9	PLASTIC LAMINATE - 4942-38 CRISP LINEN
PL10	PLASTIC LAMINATE, 7971K-12 UPTOWN WALNUT
PL11	PLASTIC LAMINATE, 4944-38 CASUAL LINEN
PL12	PLASTIC LAMINATE, 4943-38 CLASSIC LINEN
PL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
SS1	SOLID SURFACE, M103 FIRENZE
SS2	SOLID SURFACE, 9209CM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 3"x6"
T2	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G058, 20% G057, 15% G107, 15% G059
T3	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G014, 20% G016, 15% G022, 15% G020
T4	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G004, 20% G010, 15% G001, 15% G062
WC1	WALL COVERING - TWINKLE 399642 - 002
WC2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456
WG1	WALL GRAPHIC/VINYL -
WP1	FABRIC WRAPPED PANEL, 6427 METEOR, W754
WP2	FABRIC WRAPPED PANEL, 6427 METEOR, W719
WP3	FABRIC WRAPPED PANEL, 6427 METEOR, W721
WP4	FABRIC WRAPPED PANEL, 6427 METEOR, W720
WP5	FABRIC WRAPPED PANEL, 6427 METEOR, 731
WP6	FABRIC WRAPPED PANEL, 6427 METEOR, 737
WP7	FABRIC WRAPPED PANEL, 6427 METEOR, 739
WP8	BOARD PANELING - 8" HORIZONTAL SLATS - PAINTED TO MATCH PPG 1151-2 EMBELLISHMENT

HOLLOW METAL FRAME PAINT COLORS

1. PAINT TO MATCH ICI PAINTS BELLA ROSA #10RR 19/279
2. PAINT TO MATCH ICI PAINTS CELEBRATION #25YR 34/473
3. PAINT TO MATCH ICI PAINTS CAROTENE #97YR 44/642
4. PAINT TO MATCH ICI PAINTS DANDELION #37YY 64/633
5. PAINT TO MATCH ICI PAINTS KIWI FUN #30GY 40/531
6. PAINT TO MATCH ICI PAINTS MARINE BLUE #88GG 32/346
7. PAINT TO MATCH INDIAN BEAD #70BG 31/332

2

CASEWORK NOTES

1. ALL EXPOSED SURFACES TO RECIEVE PLASTIC LAMINATES.
2. PROVIDE 4" BACKSPLASH UNO.
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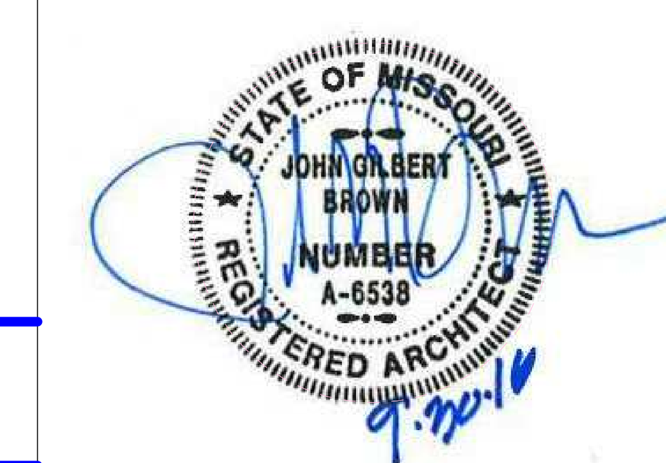
417.782.7389 fax

100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.25.2016

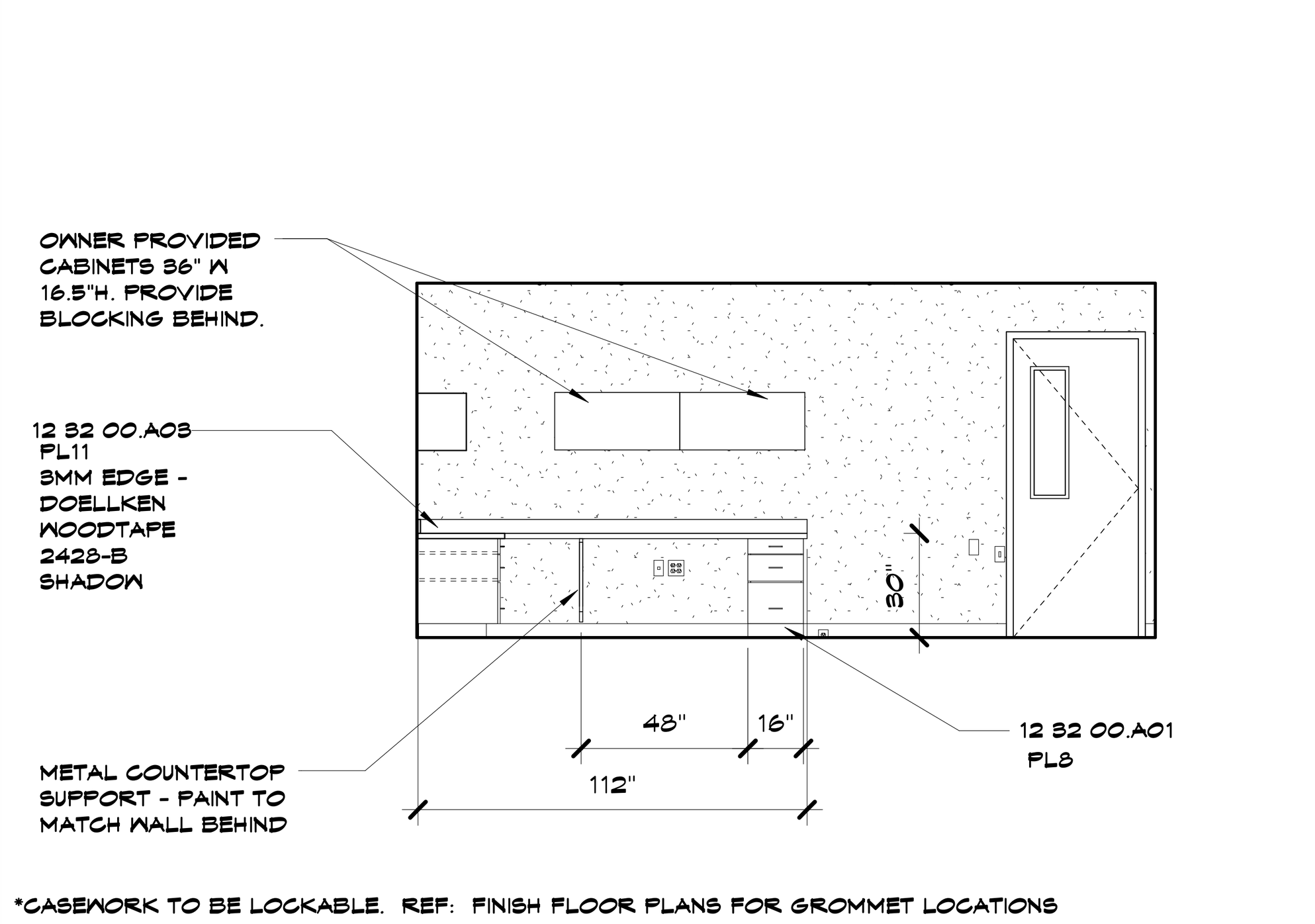


JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

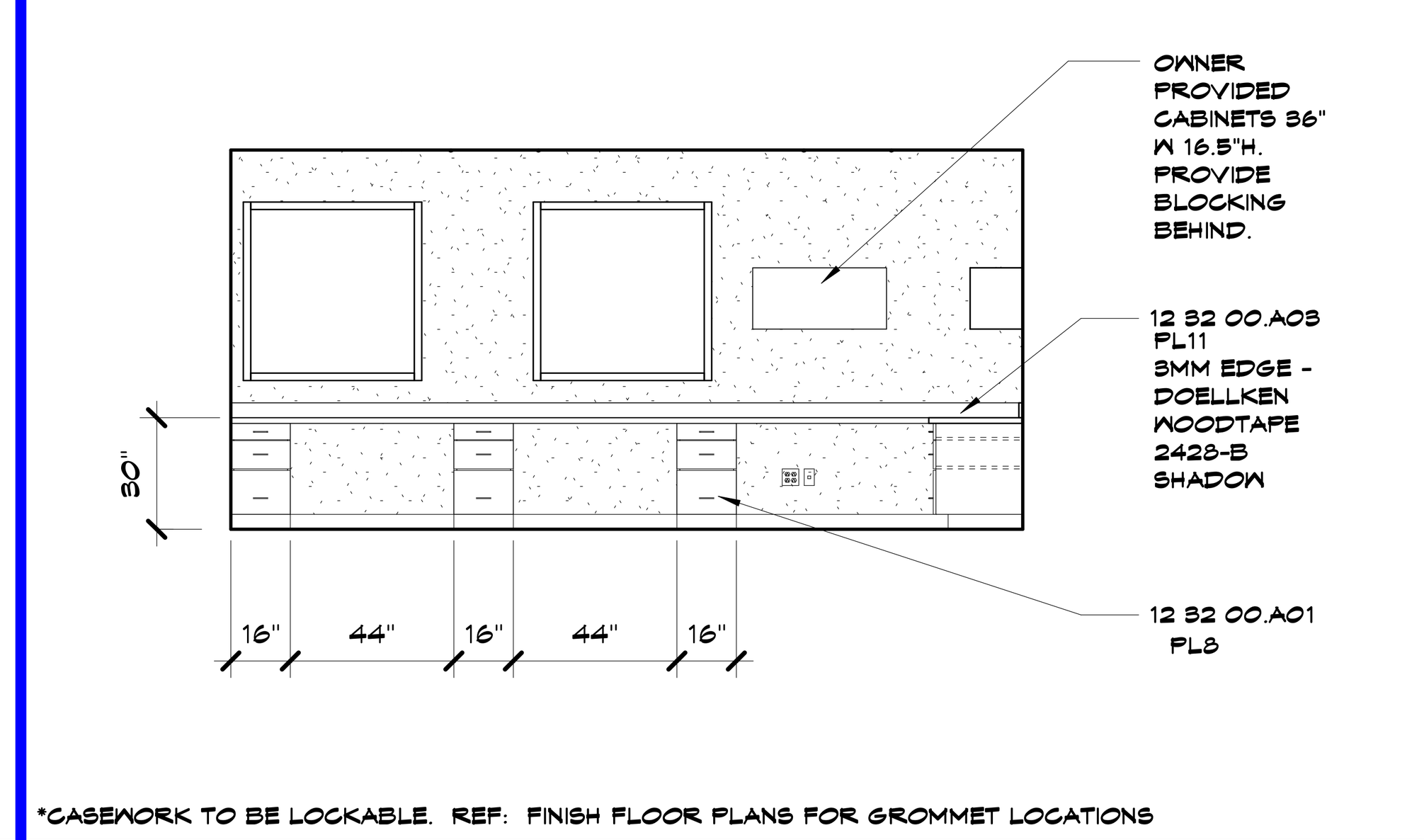
A623

_____ OF _____

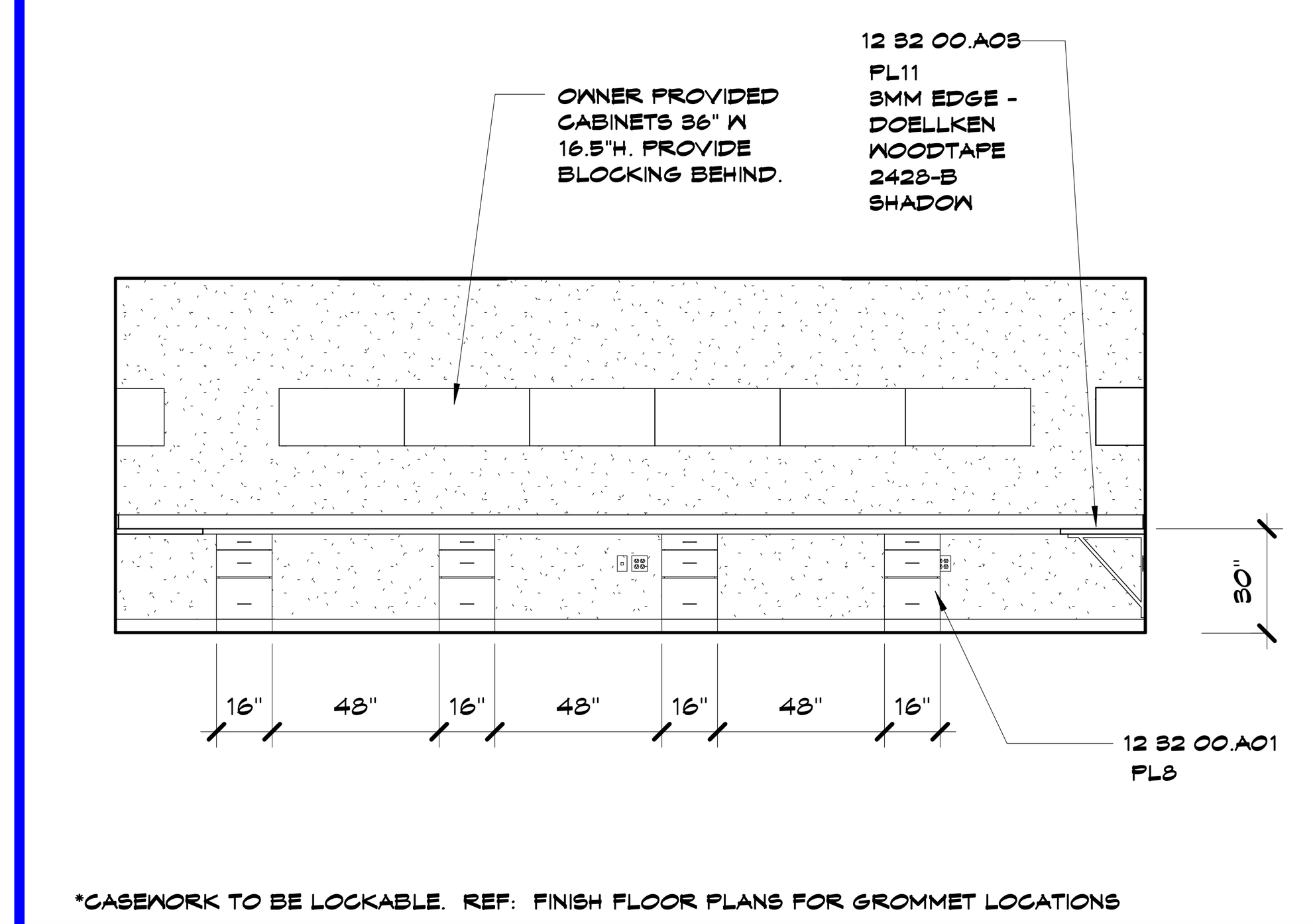
INTERIOR ELEVATIONS



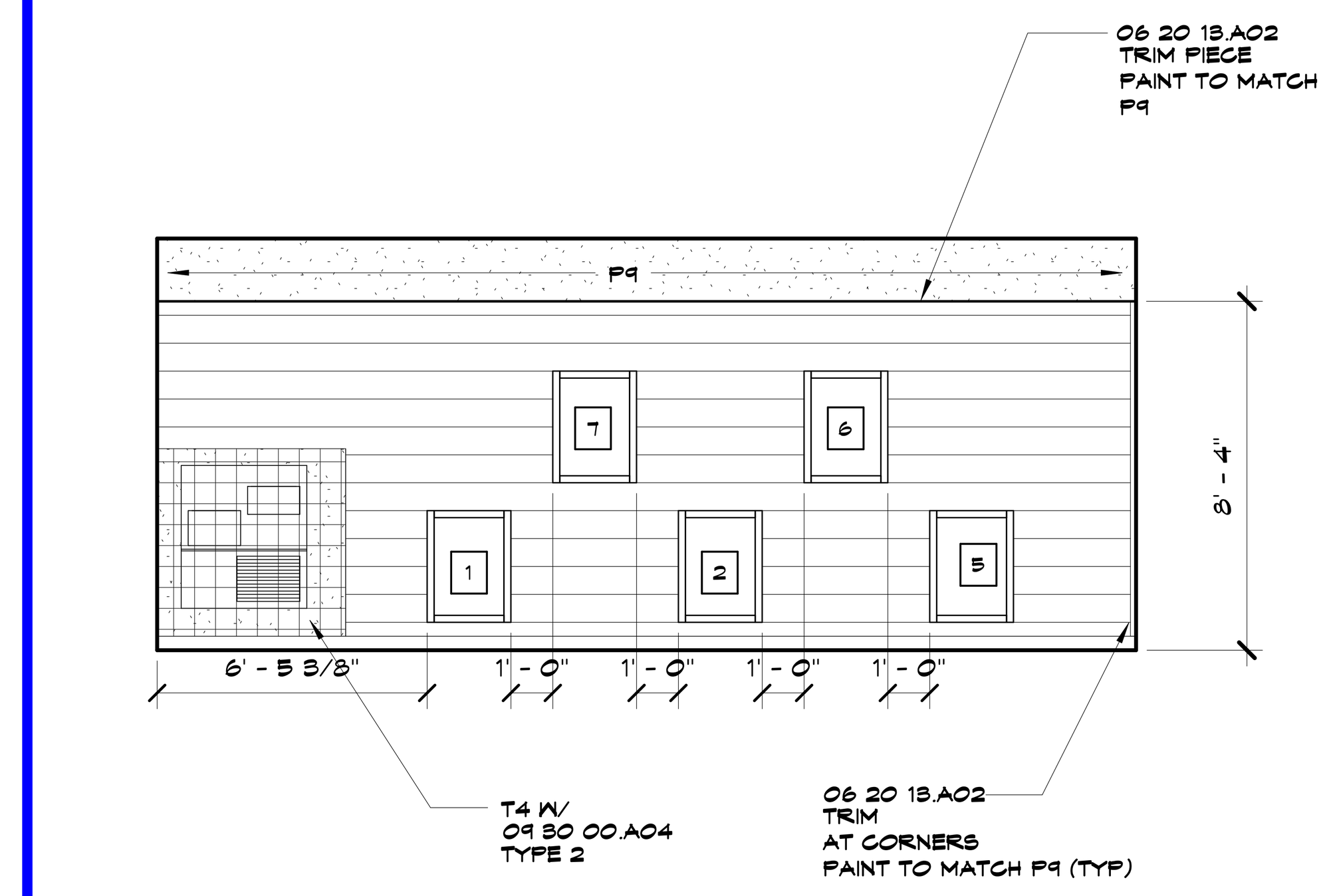
N1 | Scale 1/4" = 1'-0" | Casework Elevation - C103 PaT - N



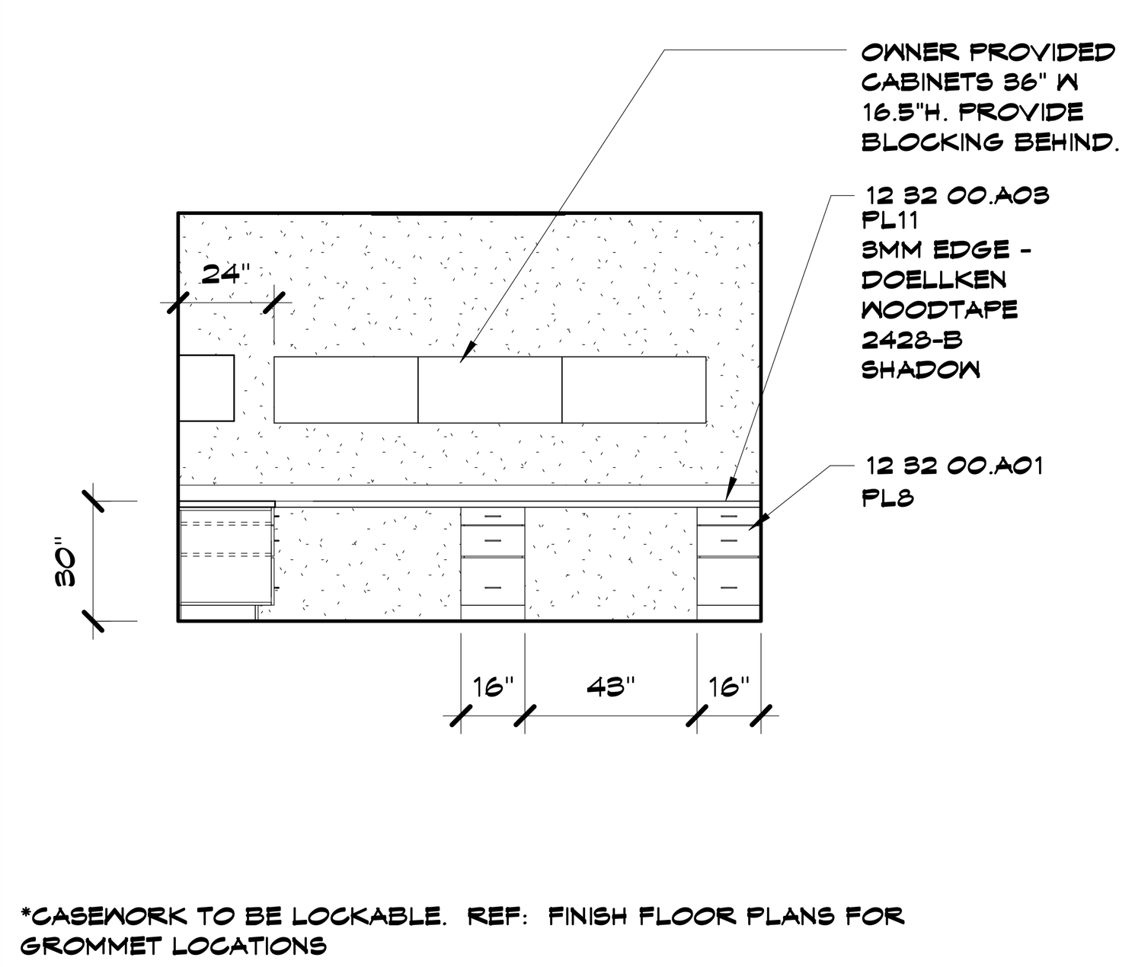
N5 | Scale 1/4" = 1'-0" | Casework Elevation - C103 PaT - S



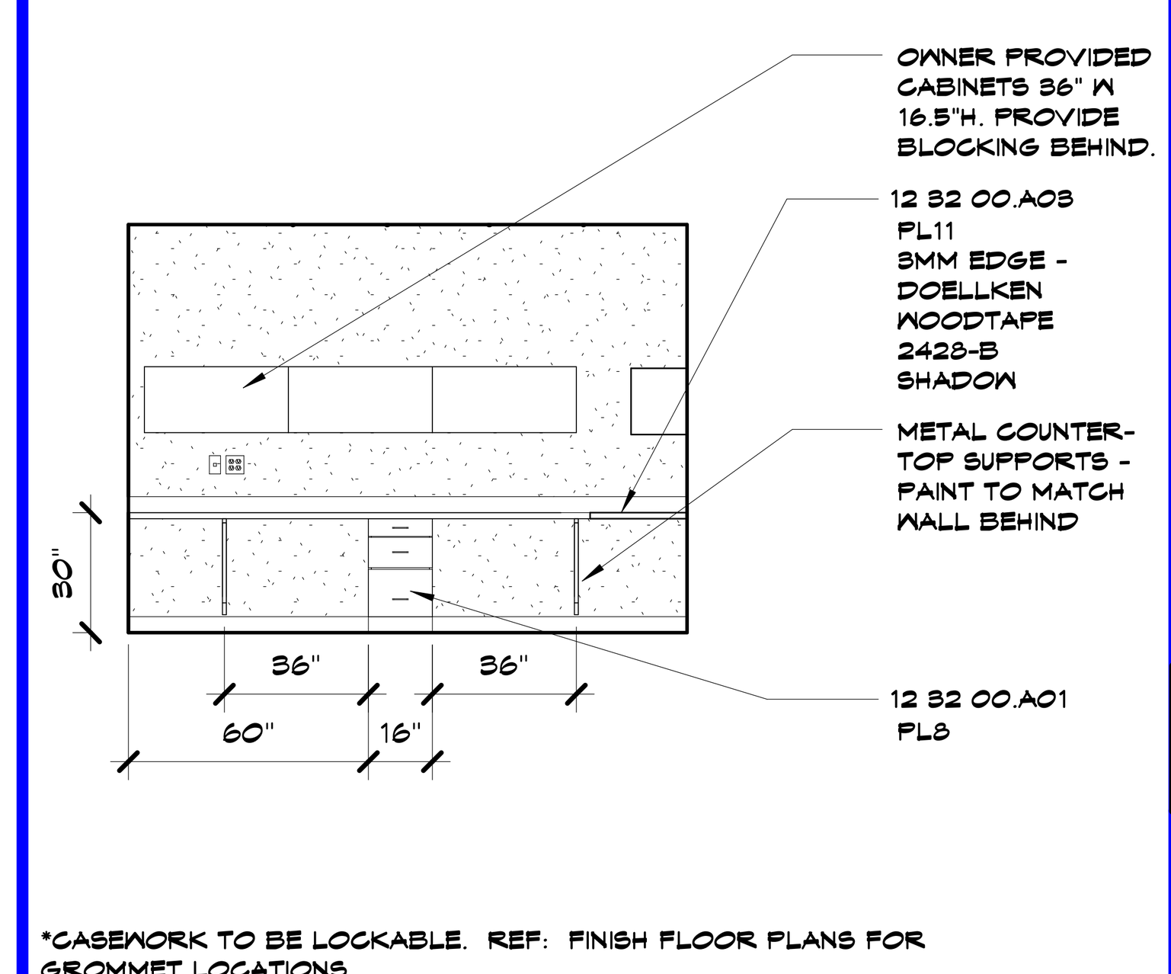
N9 | Scale 1/4" = 1'-0" | Casework Elevation - C103 PaT - W



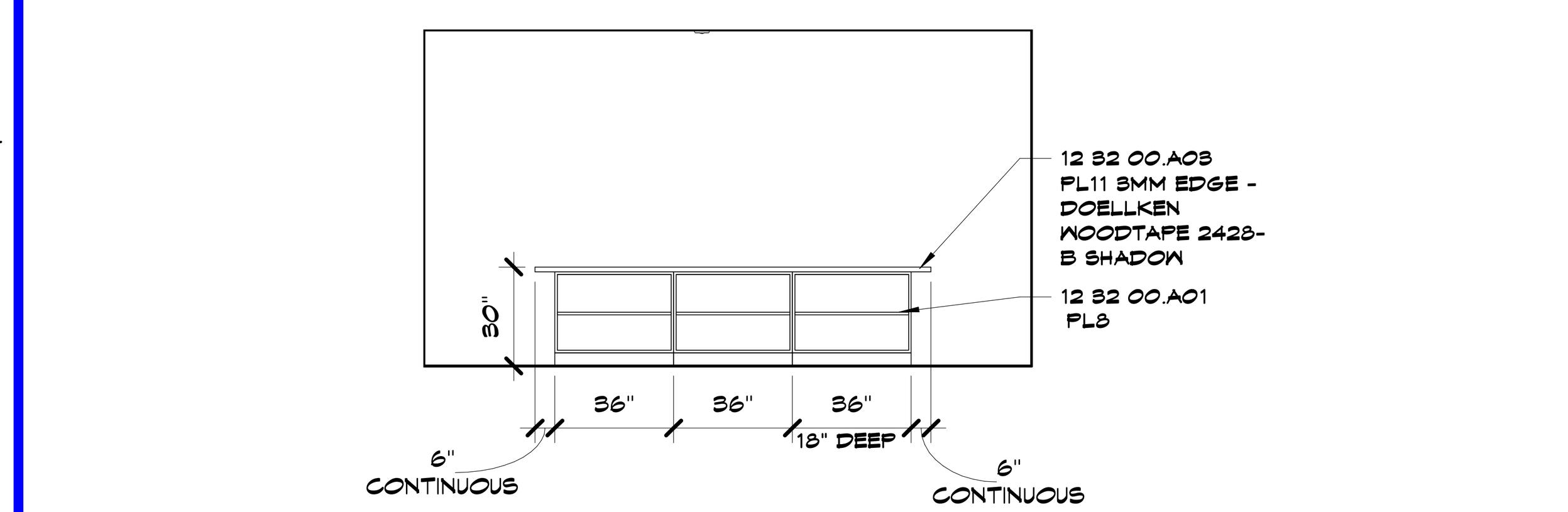
N13 | Scale 1/4" = 1'-0" | Interior Elevation - Tinkering Wall from Grove



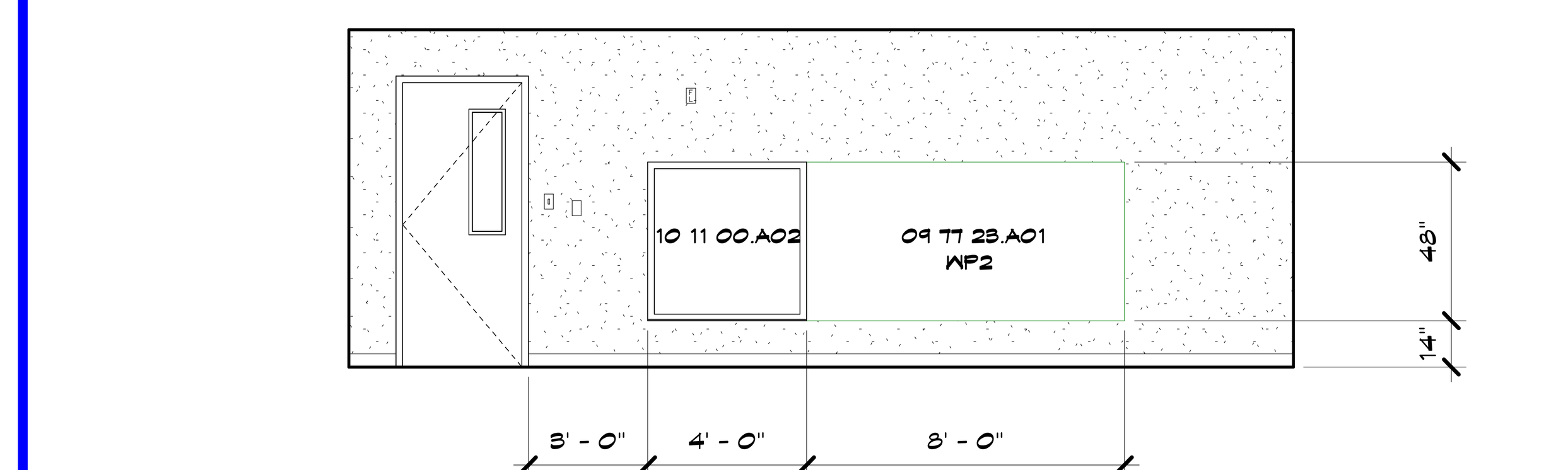
J1 | Scale 1/4" = 1'-0" | Casework Elevation - B108 Office - E



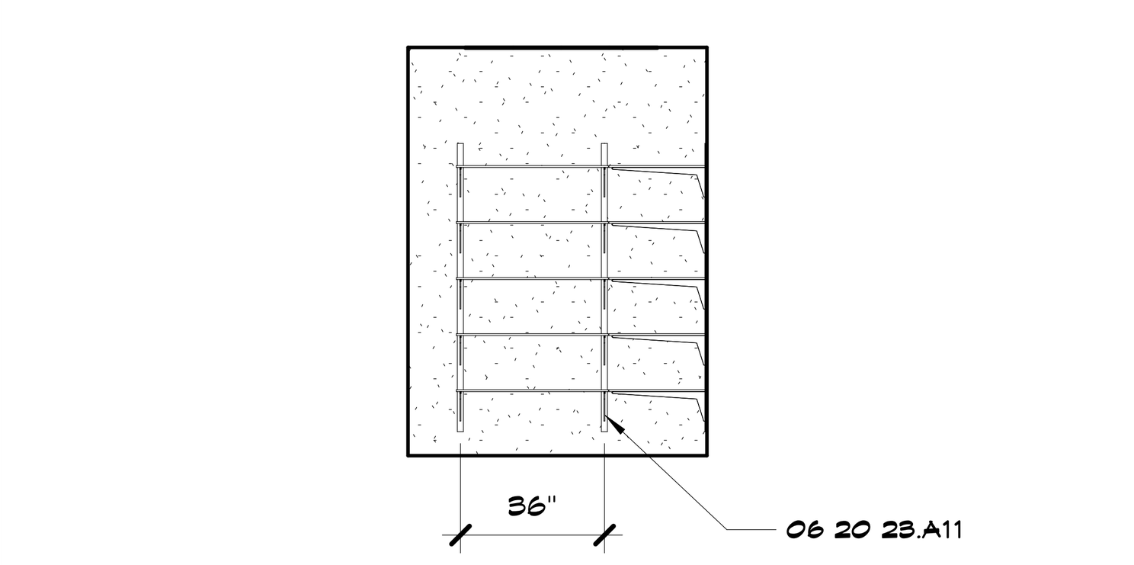
J4 | Scale 1/4" = 1'-0" | Casework Elevation - B108 Office - N



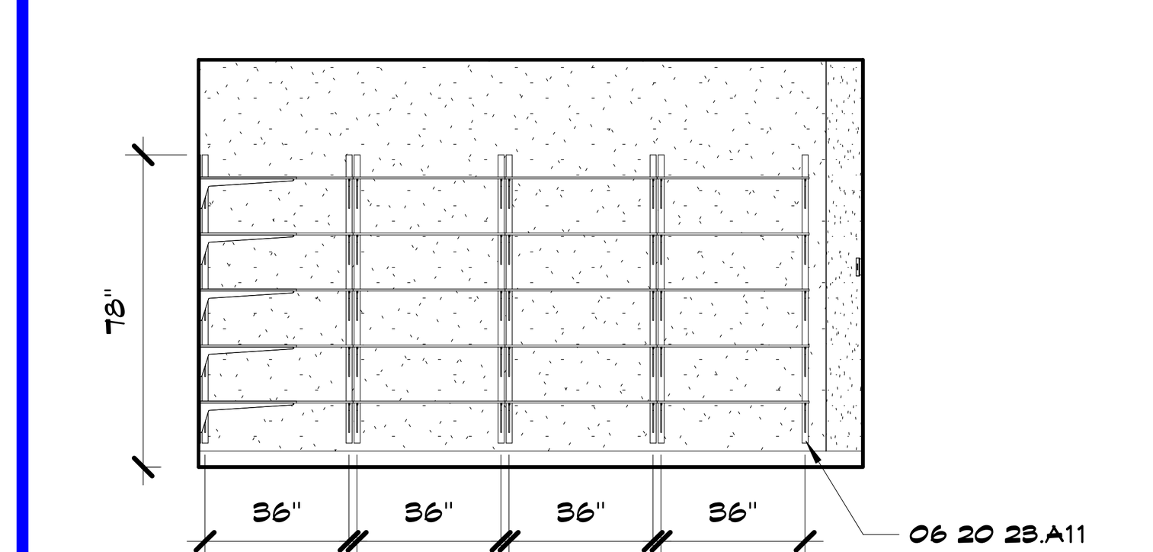
K7 | Scale 1/4" = 1'-0" | Casework Elevation - C103 PaT - E



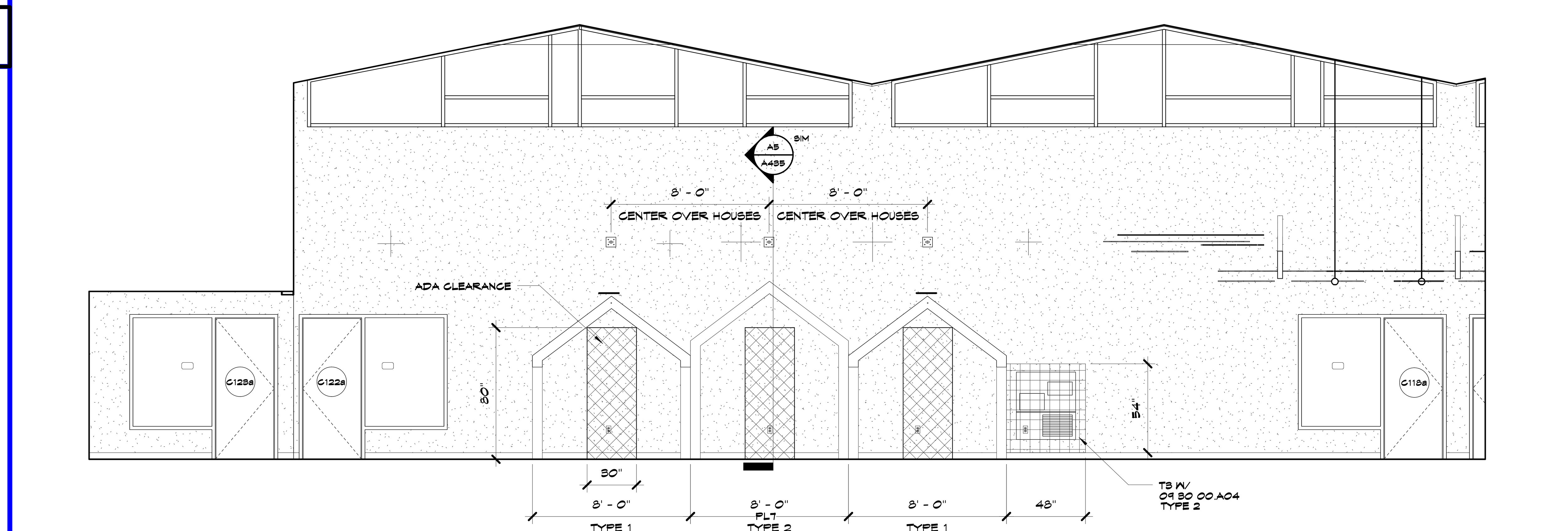
K12 | Scale 1/4" = 1'-0" | Interior Elevation - B106 OT/PT - N



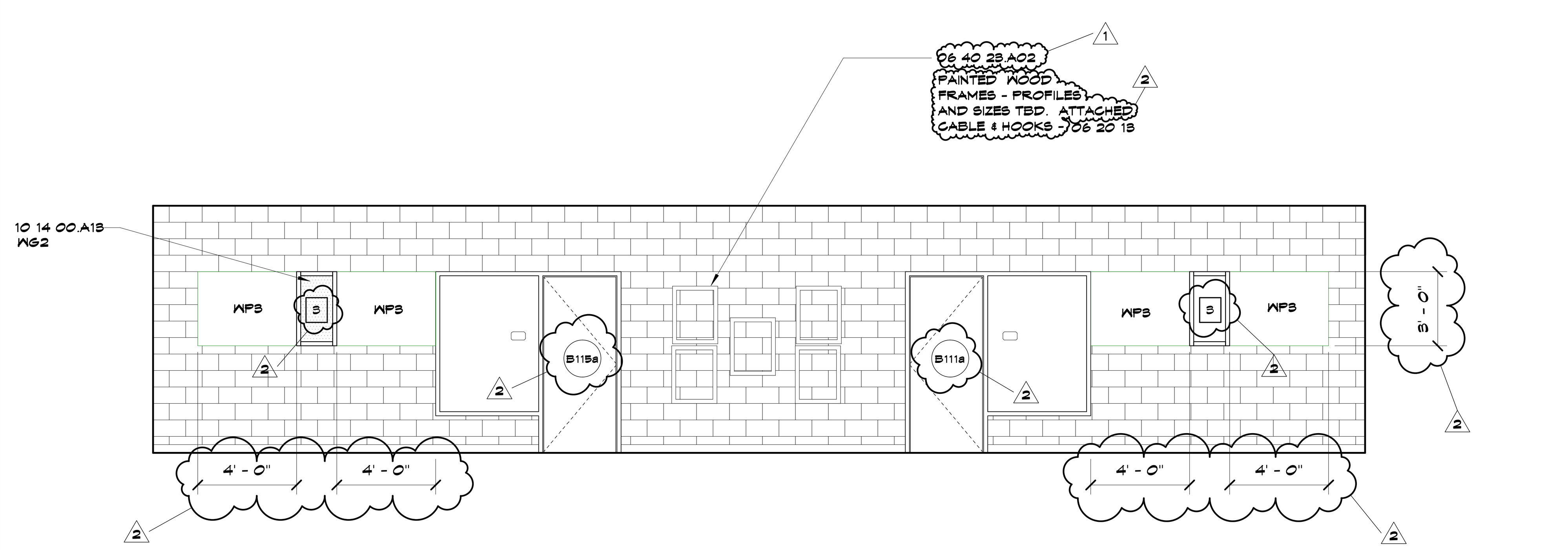
E1 | Scale 1/4" = 1'-0" | Casework Elevation - B107 Storage - E



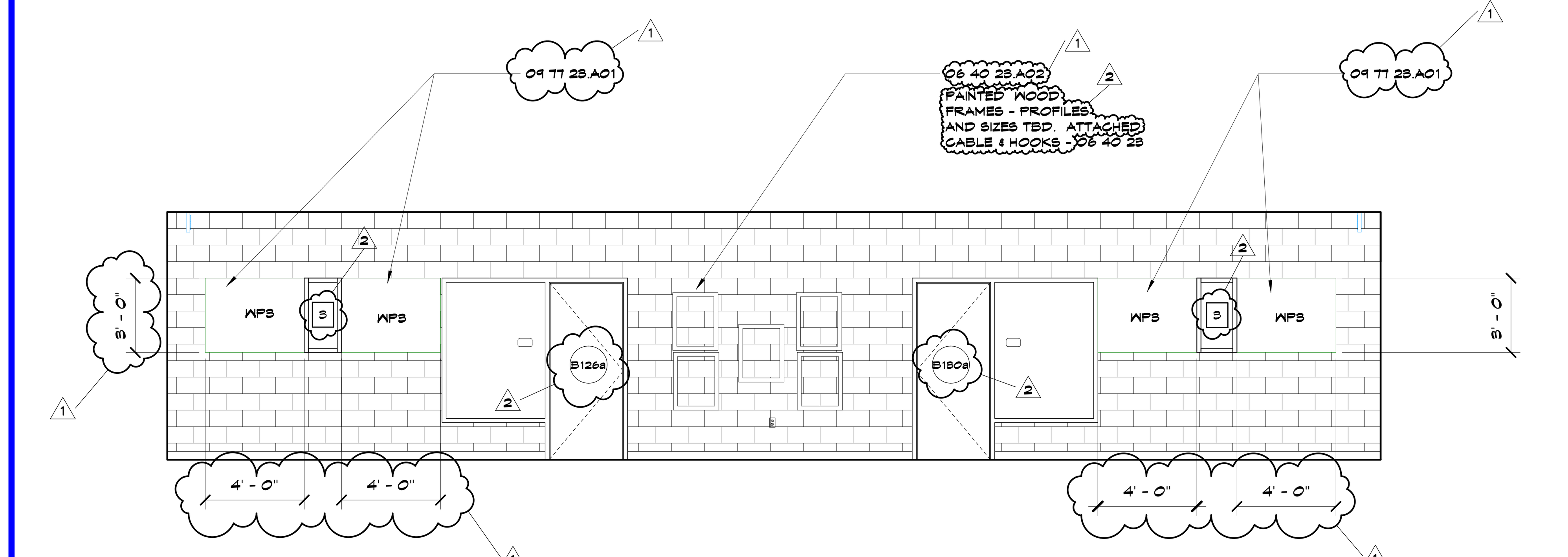
E4 | Scale 1/4" = 1'-0" | Casework Elevation - B107 Storage - S



E7 | Scale 1/4" = 1'-0" | Interior Elevation - C113 Corridor - S



A1 | Scale 1/4" = 1'-0" | Interior Elevation - B110 Corridor - S



A9 | Scale 1/4" = 1'-0" | Interior Elevation - B110 Corridor - N

SHEET KEYNOTE LEGEND

06 20 13	EXTERIOR FINISH CARPENTRY
06 20 13.A02	WOOD TRIM - OPAQUE
06 20 23.A11	SHELVING
06 40 23	INTERIOR ARCHITECTURAL WOODWORK
06 40 23.A02	ORNAMENTAL TRIM - OPAQUE
09 30 00.A04	METAL EDGE STRIPS
09 77 23.A01	FABRIC-WRAPPED PANELS
10 11 00.A02	MARKERBOARDS
10 14 00.A13	INTERIOR VINYL GRAPHICS (GLASS SUBSTRATE)
12 32 00.A01	PLASTIC LAMINATE FACED CABINETS
12 32 00.A03	PLASTIC LAMINATE COUNTERTOPS

ID	MATERIAL
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/248
EP3	PAINT SEMI-GLOSS, FRESH SALMON #23YR 45/369
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/583
EP5	PAINT SEMI-GLOSS, SUN RAYS #29YY 66/537
EP6	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/432
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #87GG 51/291
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #70BG 40/284
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/248
P3	PAINT EGGSHELL, FRESH SALMON #23YR 45/369
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/583
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P6	PAINT EGGSHELL, SWEET LEAF #32GY 51/432
P7	PAINT EGGSHELL, SOUTH SEAS #87GG 51/291
P8	PAINT EGGSHELL, BESIDE THE OCEAN #70BG 40/284
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6493 EBBTIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 308 - BLACK
PL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
PL2	PLASTIC LAMINATE, FRESH SALMON Z4271
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PL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
SS1	SOLID SURFACE, M103 FIRENZE
SS2	SOLID SURFACE, 9209CM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 3"x6"
T2	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G058, 20% G057, 15% G107, 15% G059
T3	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G014, 20% G016, 15% G022, 15% G020
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WC1	WALL COVERING - TWINKLE 399642 - 002
WC2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456
WG1	WALL GRAPHIC/VINYL -
WP1	FABRIC WRAPPED PANEL, 6427 METEOR, W754
WP2	FABRIC WRAPPED PANEL, 6427 METEOR, W719
WP3	FABRIC WRAPPED PANEL, 6427 METEOR, W721
WP4	FABRIC WRAPPED PANEL, 6427 METEOR, W720
WP5	FABRIC WRAPPED PANEL, 6427 METEOR, 731
WP6	FABRIC WRAPPED PANEL, 6427 METEOR, 737
WP7	FABRIC WRAPPED PANEL, 6427 METEOR, 739
WP8	BOARD PANELING - 8" HORIZONTAL SLATS - PAINTED TO MATCH PPG 1151-2 EMBELLISHMENT

HOLLOW METAL FRAME PAINT COLORS

1. PAINT TO MATCH ICI PAINTS BELLA ROSA #10RR 19/279
2. PAINT TO MATCH ICI PAINTS CELEBRATION #25YR 34/473
3. PAINT TO MATCH ICI PAINTS CAROTENE #97YR 44/642
4. PAINT TO MATCH ICI PAINTS DANDELION #37YY 64/633
5. PAINT TO MATCH ICI PAINTS KIWI FUN #30GY 40/531
6. PAINT TO MATCH ICI PAINTS MARINE BLUE #88GG 32/346
7. PAINT TO MATCH INDIAN BEAD #70BG 31/332

CASEWORK NOTES

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2. PROVIDE 4" BACKSPLASH UNO.
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5. CASEWORK CONTRACTOR TO COORDINATE WITH PLUMBING CONTRCTOR ON PIPING LOCATIONS.
6. ALL BASE CABINETS ARE 24" DP UNO.
7. ALL UPPER CABINETS ARE 16" DP UNO.
8. ALL TALL STORAGE CABINETS ARE 24" DP UNO.

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.25.2016

STATE OF MISSOURI — JOHN GILBERT BROWN — NUMBER A-6538 — REGISTERED ARCHITECT — 9.30.16

JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A624

_____ OF _____

INTERIOR ELEVATIONS

SHEET KEYNOTE LEGEND

06 40 23	INTERIOR ARCHITECTURAL WOODWORK
06 40 23.A02	ORNAMENTAL TRIM - OPAQUE
09 77 23.A01	FABRIC-WRAPPED PANELS
12 32 00.A01	PLASTIC LAMINATE FACED CABINETS
12 32 00.A03	PLASTIC LAMINATE COUNTERTOPS
12 32 00.A09	TALL CABINET WITH ADJUSTABLE SHELVES

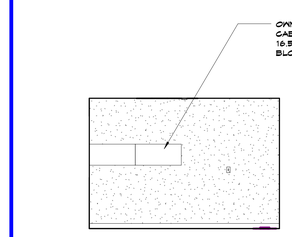
ID	MATERIAL
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/248
EP3	PAINT SEMI-GLOSS, FRESH SALMON #2BYR 45/364
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/535
EP5	PAINT SEMI-GLOSS, SUN RAYS #2YY 66/551
EP6	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/452
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #07GG 51/291
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #10BG 40/284
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/248
P3	PAINT EGGSHELL, FRESH SALMON #2BYR 45/364
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/535
P5	PAINT EGGSHELL, SUN RAYS #2YY 66/551
P6	PAINT EGGSHELL, SWEET LEAF #32GY 51/452
P7	PAINT EGGSHELL, SOUTH SEAS #07GG 51/291
P8	PAINT EGGSHELL, BESIDE THE OCEAN #10BG 40/284
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6478 ESSTIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 308 - BLACK
PL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
PL2	PLASTIC LAMINATE, FRESH SALMON Z4271
PL3	PLASTIC LAMINATE, EGYPTIAN SUN Z4271
PL4	PLASTIC LAMINATE, SUN RAYS Z4271
PL5	PLASTIC LAMINATE, SWEET LEAF Z4271
PL6	PLASTIC LAMINATE, SOUTH SEAS Z4271
PL7	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271
PL8	PLASTIC LAMINATE, D96-60 SHADOW
PL9	PLASTIC LAMINATE - 4942-38 CRISP LINEN
PL10	PLASTIC LAMINATE, 7871K-12 UPTOWN WALNUT
PL11	PLASTIC LAMINATE, 4944-38 CASUAL LINEN
PL12	PLASTIC LAMINATE, 4948-38 CLASSIC LINEN
PL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
SS1	SOLID SURFACE, M108 FIRENZE
SS2	SOLID SURFACE, 1209SM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 3"x6"
T2	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G053, 20% G057, 15% G107, 15% G084
T3	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G014, 20% G016, 15% G022, 15% G020
T4	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G004, 20% G010, 15% G001, 15% G062
WC1	WALL COVERING - TWINKLE 599642 - 002
WC2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456
WG1	WALL GRAPHIC/VINYL -
WP1	FABRIC WRAPPED PANEL, 6427 METEOR, WT54
WP2	FABRIC WRAPPED PANEL, 6427 METEOR, WT19
WP3	FABRIC WRAPPED PANEL, 6427 METEOR, WT21
WP4	FABRIC WRAPPED PANEL, 6427 METEOR, WT20
WP5	FABRIC WRAPPED PANEL, 6427 METEOR, TB1
WP6	FABRIC WRAPPED PANEL, 6427 METEOR, TB7
WP7	FABRIC WRAPPED PANEL, 6427 METEOR, TB9
WP8	BOARD PANELING - 5" HORIZONTAL SLATS - PAINTED TO MATCH PPG 1151-2 EMBELLISHMENT

HOLLOW METAL FRAME PAINT COLORS

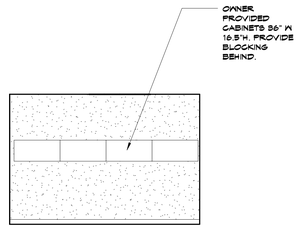
1. PAINT TO MATCH ICI PAINTS BELLA ROSA #10RR 19/279
2. PAINT TO MATCH ICI PAINTS CELEBRATION #2BYR 34/473
3. PAINT TO MATCH ICI PAINTS CAROTENE #9TYR 44/642
4. PAINT TO MATCH ICI PAINTS DANDELION #3TYY 64/688
5. PAINT TO MATCH ICI PAINTS KIWI FUN #3GGY 40/551
6. PAINT TO MATCH ICI PAINTS MARINE BLUE #288GG 32/346
7. PAINT TO MATCH INDIAN BEAD #10BG 51/382

CASEWORK NOTES

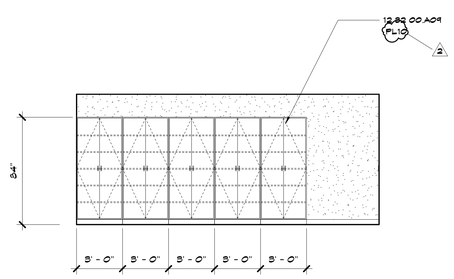
1. ALL EXPOSED SURFACES TO RECIEVE PLASTIC LAMINATES.
2. PROVIDE 4" BACKSPLASH UNO.
3. PROVIDE 1" OVERHANG AT ALL COUNTERTOPS UNO.
4. DEMINSIONS SHOWN ON FLOOR PLANS ARE TO FACE OF STUD OR MAS BLOCK. FIELD VERIFY ALL DEMINSIONS TO FACE OF FINISH PRIOR TO CONSTRUCTION.
5. CASEWORK CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR ON PIPING LOCATIONS.
6. ALL BASE CABINETS ARE 24" DP UNO.
7. ALL UPPER CABINETS ARE 16" DP UNO.
8. ALL TALL STORAGE CABINETS ARE 24" DP UNO.



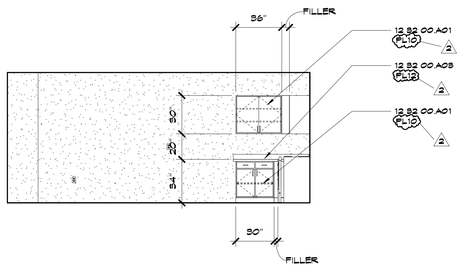
E7 | Scale 1/4" = 1'-0" | Interior Elevation - A107 SLP Center - W



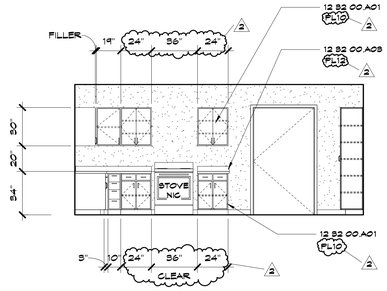
E10 | Scale 1/4" = 1'-0" | Interior Elevation - A107 SLP Center - E



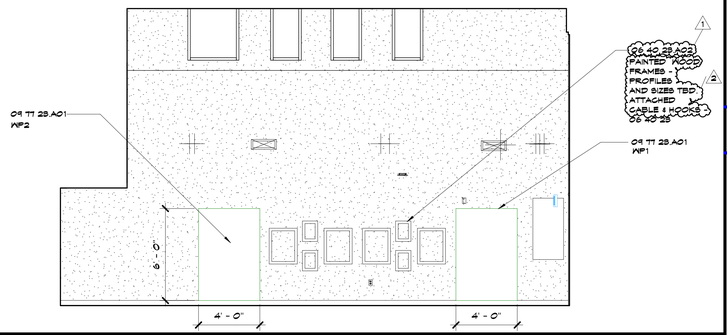
E13 | Scale 1/4" = 1'-0" | Casework Elevation - C107 Recieving/Kitchen - S



A1 | Scale 1/4" = 1'-0" | Casework Elevation - C107 Recieving/Kitchen - N



A6 | Scale 1/4" = 1'-0" | Casework Elevation - C107 Recieving/Kitchen - E



A10 | Scale 1/4" = 1'-0" | Interior Elevation - A130 Corridor - N

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

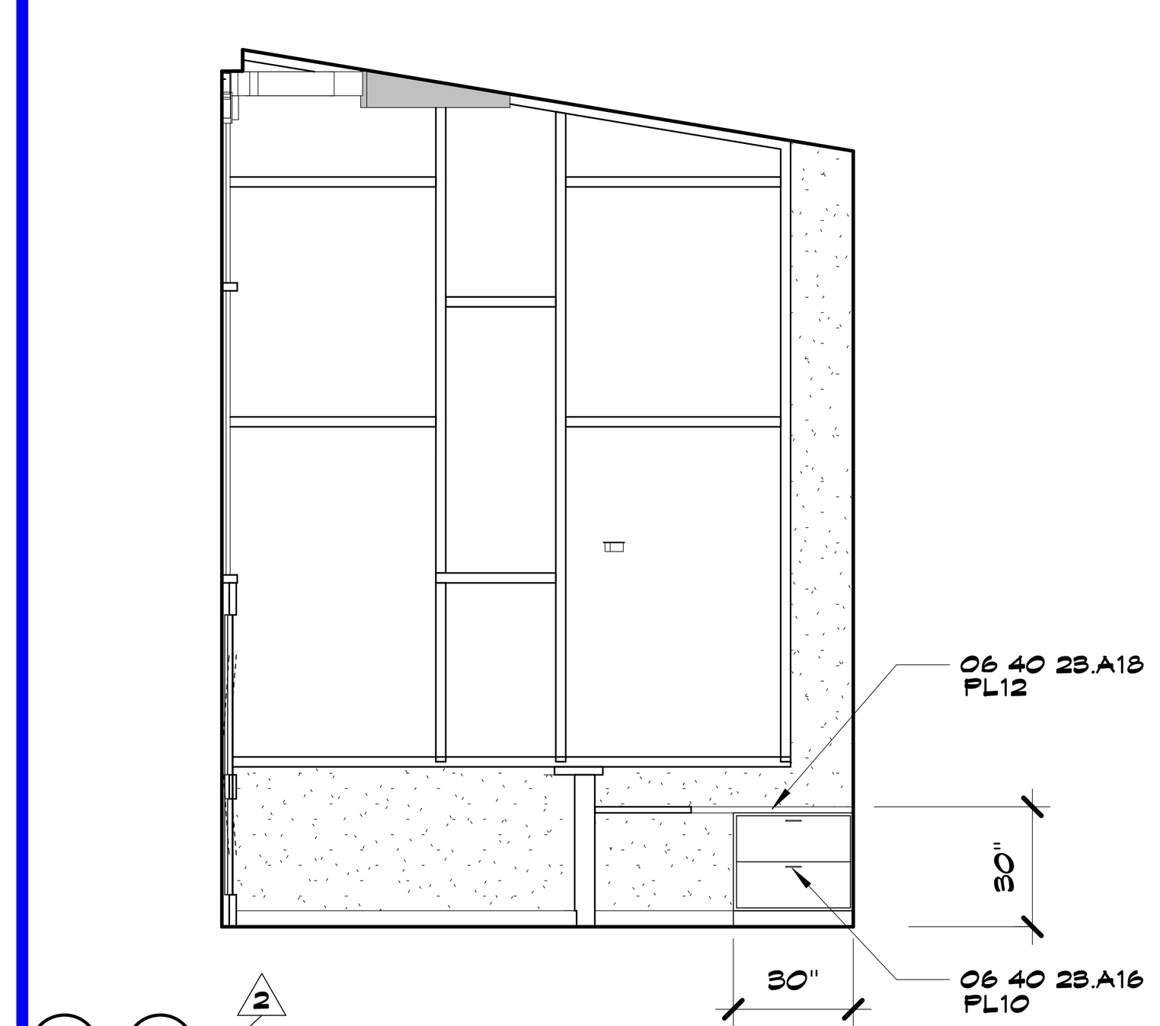
JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A625

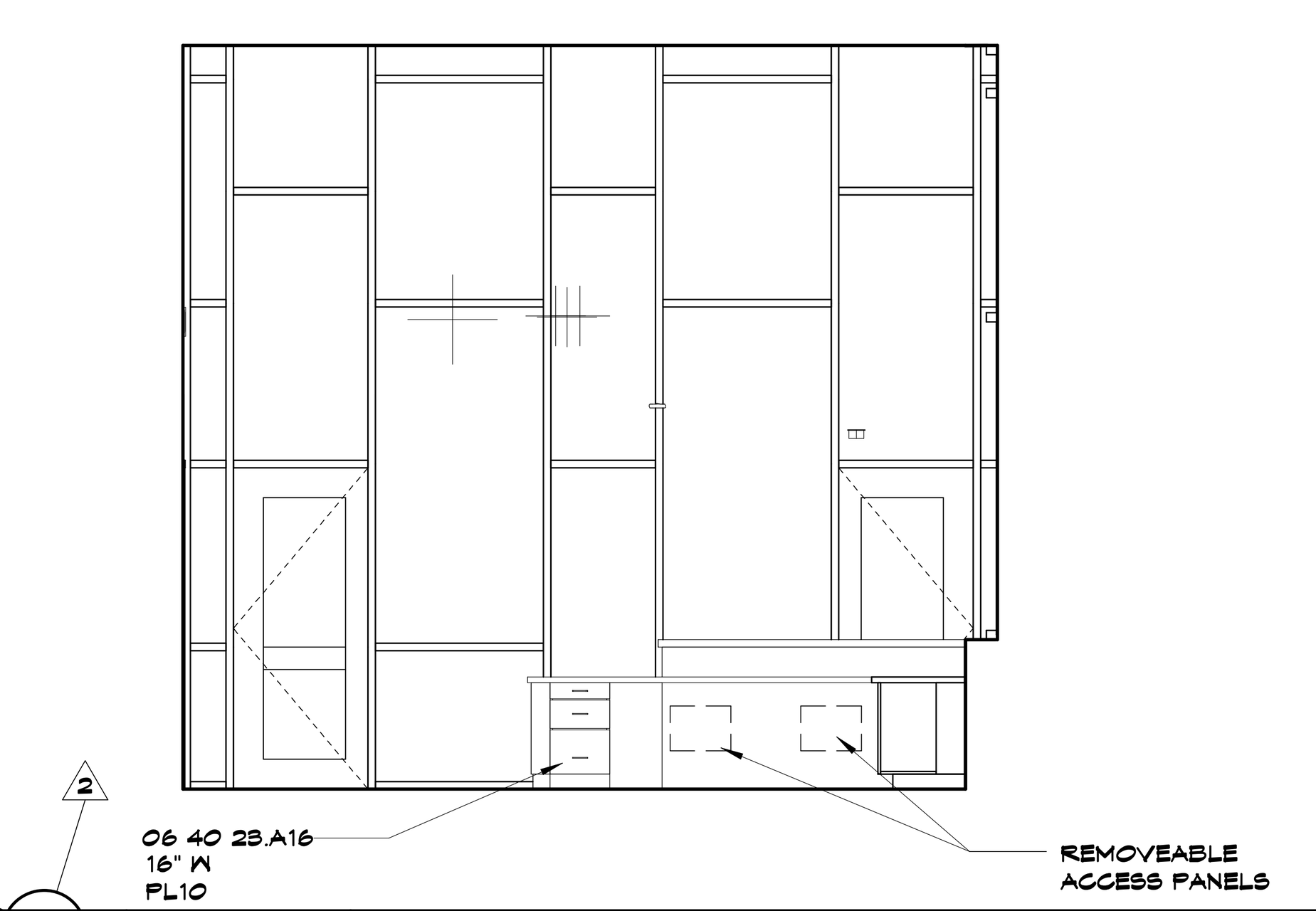
_____ OF _____

INTERIOR ELEVATIONS

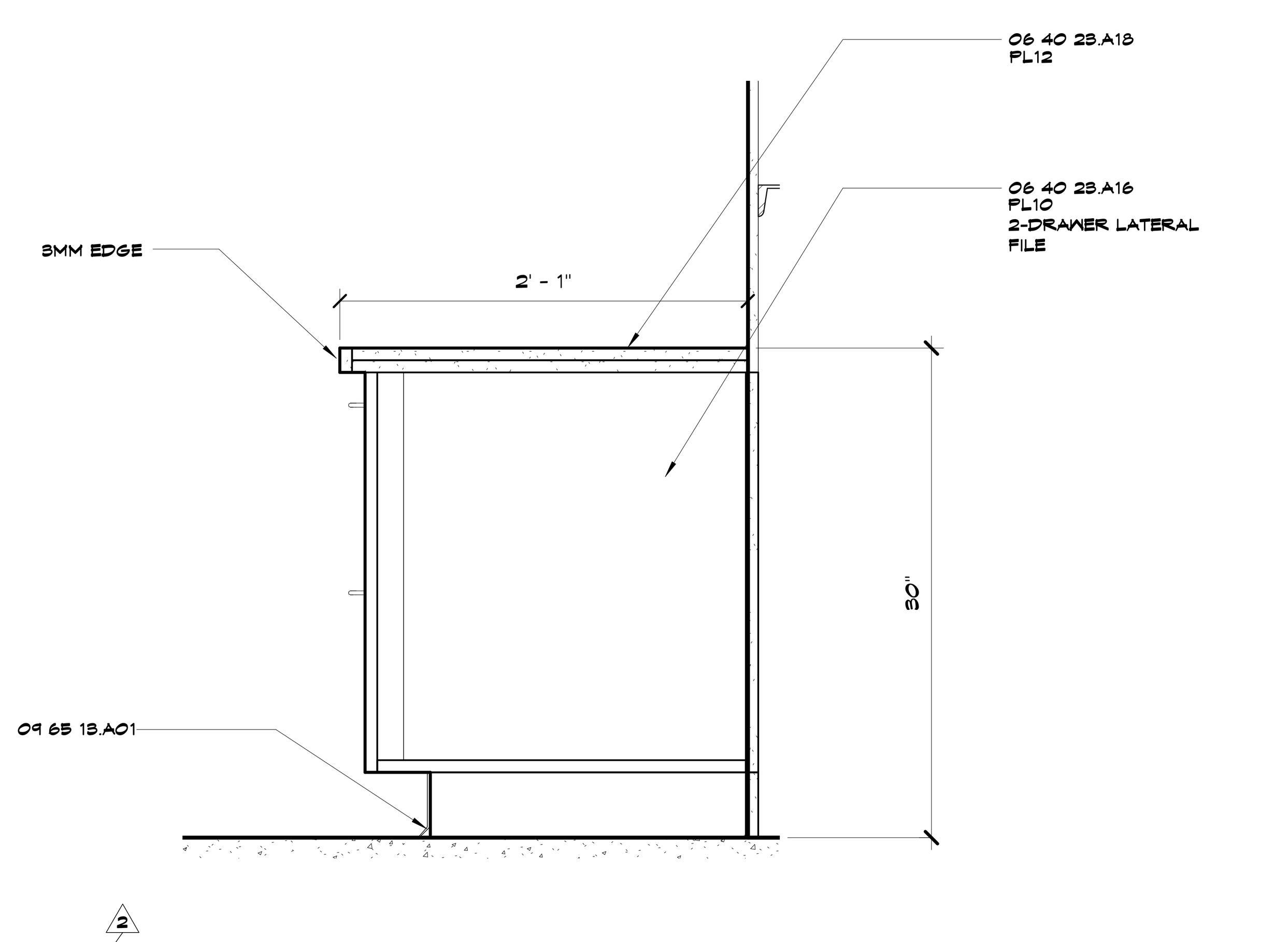
10/25/2016 11:35:14 AM



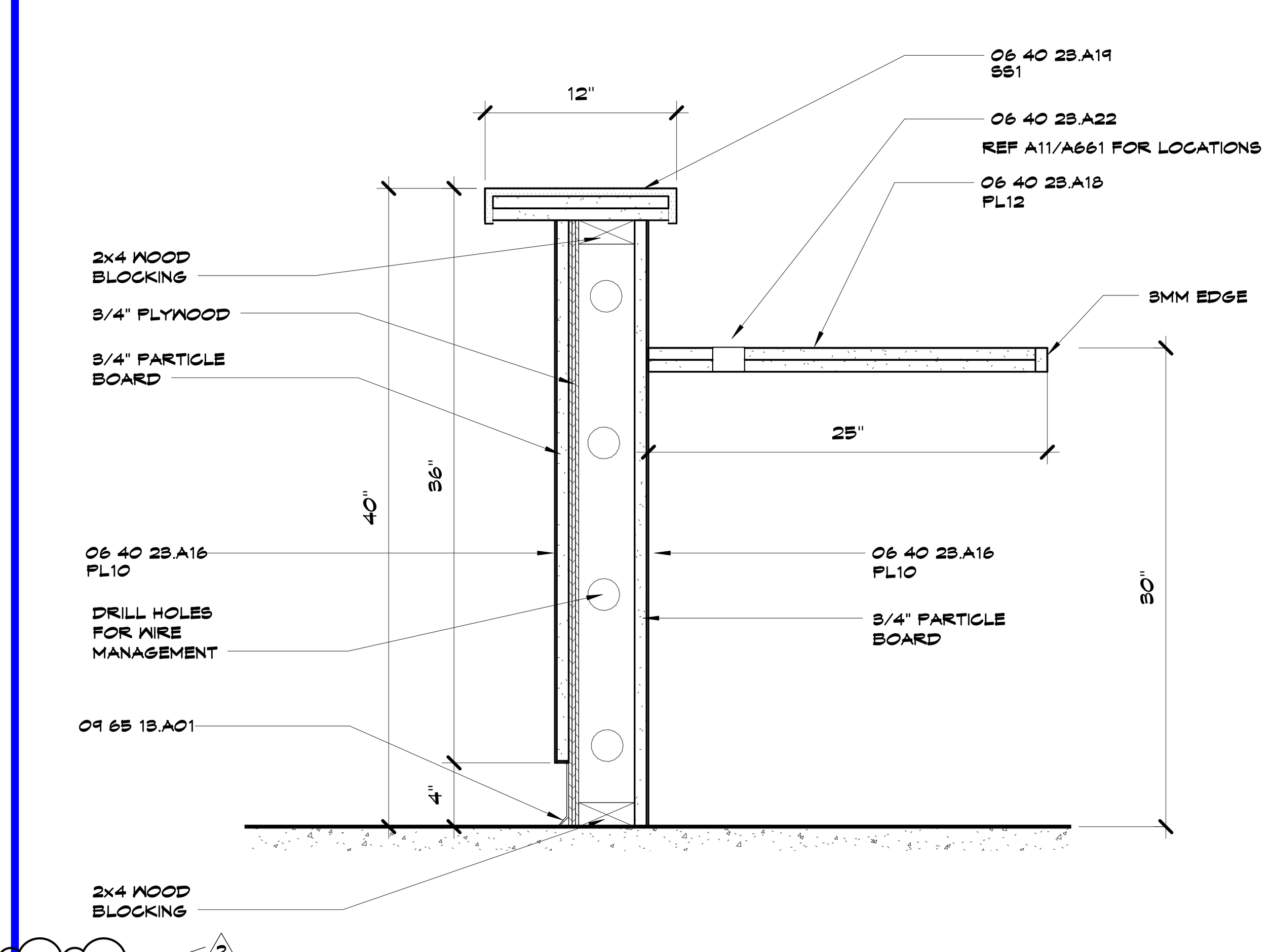
F10 Scale 1/4" = 1'-0" — Reception Desk - E



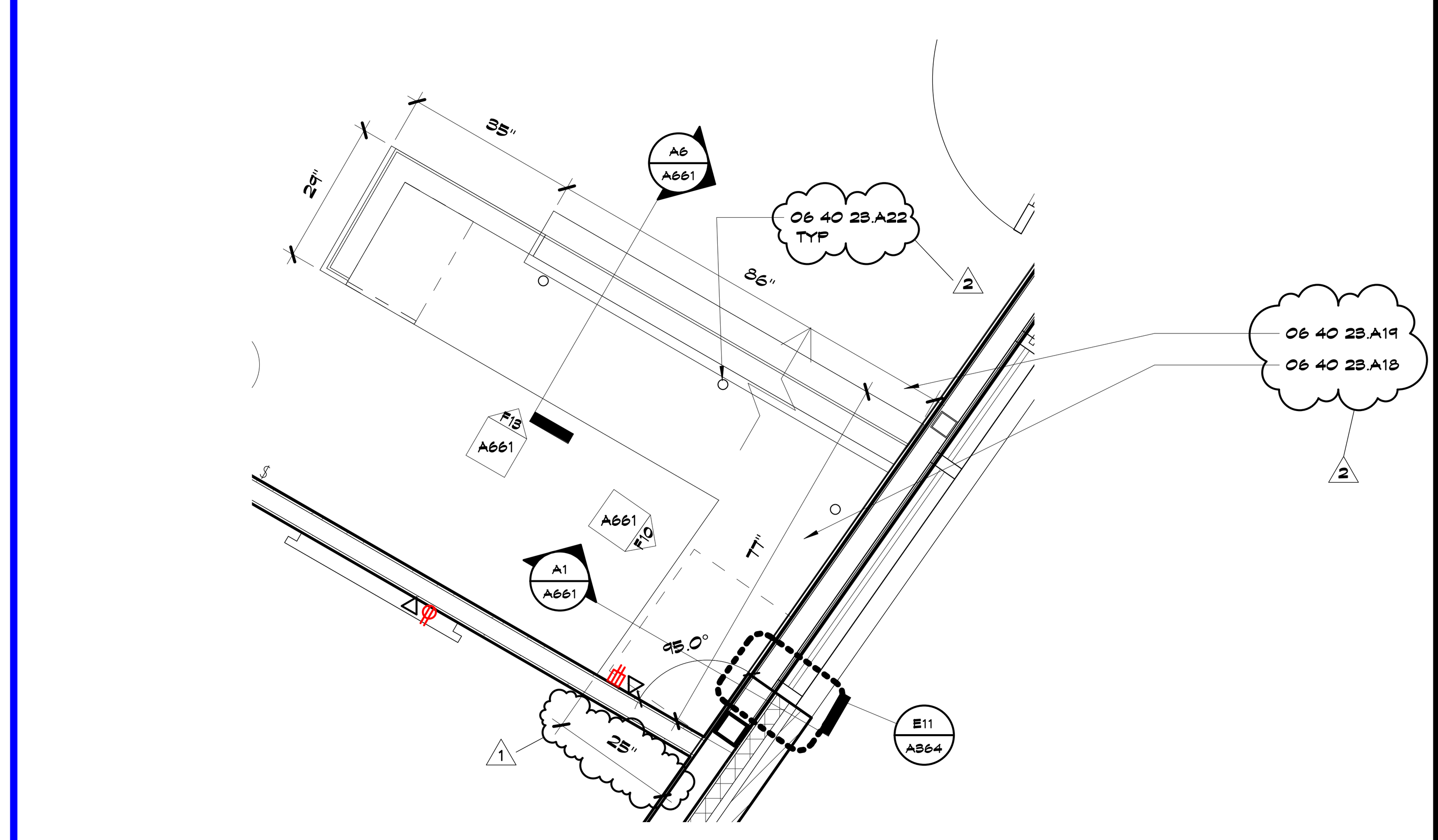
F13 Scale 1/4" = 1'-0" — Reception Desk - N



A1 Scale 1 1/2" = 1'-0" — Section @ Reception Desk - Storage



A6 Scale 1 1/2" = 1'-0" — Section @ Reception Desk - Transaction Top



A11 Scale 1/2" = 1'-0" — Enlarged Plan - Reception Desk

SHEET KEYNOTE LEGEND

06 40 23.A16	PLASTIC LAMINATE CABINETS - CUSTOM
06 40 23.A18	PLASTIC LAMINATE COUNTERTOPS - CUSTOM
06 40 23.A19	SOLID SURFACE COUNTERTOPS
06 40 23.A22	GROMMETS
09 65 13.A01	RESILIENT BASE

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Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016
2	Addendum 2	10.25.2016

STATE OF MISSOURI — JOHN GILBERT BROWN — NUMBER A-6538 — REGISTERED ARCHITECT — 9.30.16

JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A661

_____ OF _____

INTERIOR DETAILS

10/25/2016 11:35:16 AM

MATERIAL FINISH LEGEND

ID	KEYNOTE	MANUFACTURER	MATERIAL	LOCATION GUIDELINES	REMARKS
ACT1	09 51 13.A01	ARMSTRONG	24x48 ACOUSTICAL CEILING TILE - DUNE 1851 SQUARE EDGE - 15/16" GRID	GENERAL BLDG CEILING	GRID INSTALLATION: STAGGERED - RUNNING BOND
ACT2	09 51 13.A01	ARMSTRONG	48x48 ACOUSTICAL CEILING TILE - OPTIMA TEGULAR - 9/16" SILHOUETTE 1/8" REVEAL	HIGH VOLUME SPACES	
ACT3	09 51 13.A01	CERTAINTEED	24x48 HUMIDITY CONTROL - ECOPHON HYGIENE PERFORMANCE	RECIEVING/KITCHEN	
C1a	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723462 F25	FIELD PURPLE	INSTALLATION: ASHLAR
C1b	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723463 F25	FIELD SALMON	INSTALLATION - ASHLAR
C1c	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723461 F25	FIELD ORANGE	INSTALLATION - ASHLAR
C1d	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723460 F25	FIELD YELLOW	INSTALLATION - ASHLAR
C1e	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723466 F25	FIELD GREEN	INSTALLATION - ASHLAR
C1f	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723465 F25	FIELD TEAL	INSTALLATION - ASHLAR
C1g	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - 00723464 F25	FIELD BLUE	INSTALLATION - ASHLAR
C2a	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL110-59-174 NIGHT HORIZON	MIX PURPLE	INSTALLATION - ASHLAR
C2b	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL111-146-148 FIRETHORN	MIX SALMON	INSTALLATION - ASHLAR
C2c	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL77-136-167 BUCKTHORN	MIX ORANGE	INSTALLATION - ASHLAR
C2d	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL65-135-105 TAN AURA	MIX YELLOW	INSTALLATION - ASHLAR
C2e	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL195-75-141 COLBALT GREEN	MIX GREEN	INSTALLATION - ASHLAR
C2f	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL120-202-65 SULPHUR SPRING	MIX TEAL	INSTALLATION - ASHLAR
C2g	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL196-201-199 BLUE AGAVE	MIX BLUE	INSTALLATION - ASHLAR
C3a	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL110 LOGANBERRY	SOLID PURPLE	INSTALLATION - ASHLAR
C3b	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL147 CARMINE	SOLID SALMON	INSTALLATION - ASHLAR
C3c	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL105 GOLD LEAF	SOLID ORANGE	INSTALLATION - ASHLAR
C3d	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL184 FLAXEN	SOLID YELLOW	INSTALLATION - ASHLAR
C3e	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL141 CELANDINE	SOLID GREEN	INSTALLATION - ASHLAR
C3f	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL201 MALLARD	SOLID TEAL	INSTALLATION - ASHLAR
C3g	09 68 13.A01	MILLIKEN	CARPET TILE - COLORFIELD - COL126 OCEAN MIST	SOLID BLUE	INSTALLATION - ASHLAR
C4	09 68 13.A01	MOHAWK	CARPET TILE, PLANE LOW KT235, 656 GREEN		
C5	09 68 13.A01	MOHAWK	CARPET TILE, PLANE HIGH KT236, 656 GREEN		
C6	09 68 13.A01	MOHAWK	CARPET TILE, DIAGONAL RELIEF KT237, 656 GREEN		
C7	09 68 13.A01	MOHAWK	CARPET TILE, FADE RELIEF KT238, 656 GREEN		
C8	09 68 13.A01	MILLIKEN	CARPET TILE, QUARRUS - ORBIT BRUSH, ORB 144-27 BOUDARY	VESTIBULE	INSTALLATION - MONOLITHIC
C9	09 68 13.A01	TANDUS	CARPET TILE, CHANGE II 03747 - PLASTIC INEVITABLE 10213 - 9"x36" PLANK	ADMINISTRATION	INSTALLATION - VERTICAL ASHLAR
EP1	09 96 00.A01	SHERWIN WILLIAMS	PAINT SEMI-GLOSS, SW7030 ANEW GRAY		EPOXY NEUTRAL FIELD PAINT
EP2	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/248		EPOXY PURPLE ACCENT
EP3	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, FRESH SALMON #2BYR 45/369		EPOXY SALMON ACCENT
EP4	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/533		EPOXY ORANGE ACCENT
EP5	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, SUN RAYS #29YY 66/537		EPOXY YELLOW ACCENT
EP6	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/452		EPOXY GREEN ACCENT
EP7	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, SOUTH SEAS #37GG 51/291		EPOXY TEAL ACCENT
EP8	09 96 00.A01	ICI PAINTS	PAINT SEMI-GLOSS, BESIDE THE OCEAN #70BG 40/284		EPOXY BLUE ACCENT
P1	09 91 23.A02	SHERWIN WILLIAMS	PAINT EGGSHELL, SW7030 ANEW GRAY		NEUTRAL FIELD PAINT
P2	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, SATIN SERENADE #10RR 26/248		PURPLE ACCENT
P3	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, FRESH SALMON #2BYR 45/369		SALMON ACCENT
P4	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/533		ORANGE ACCENT
P5	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, SUN RAYS #29YY 66/537		YELLOW ACCENT
P6	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, SWEET LEAF #32GY 51/452		GREEN ACCENT
P7	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, SOUTH SEAS #37GG 51/291		TEAL ACCENT
P8	09 91 23.A02	ICI PAINTS	PAINT EGGSHELL, BESIDE THE OCEAN #70BG 40/284		BLUE ACCENT
P9	09 91 23.A01	SHERWIN WILLIAMS	PAINT FLAT, SW 7006 EXTRA WHITE		
P10	09 91 23.A02	SHERWIN WILLIAMS	PAINT EGGSHELL, SW 6493 EBBTIDE		ADMIN ACCENT
P11	09 91 23.A02	BENJAMIN MOORE	PAINT EGGSHELL, CHALKBOARD PAINT 308 - BLACK		
PL1	12 32 00.A03	WILSONART	PLASTIC LAMINATE, SATIN SERENADE Z4271	CLASSROOM COUNTERTOP	
PL2	12 32 00.A03	WILSONART	PLASTIC LAMINATE, FRESH SALMON Z4271	CLASSROOM COUNTERTOP	
PL3	12 32 00.A03	WILSONART	PLASTIC LAMINATE, EGYPTIAN SUN Z4271	CLASSROOM COUNTERTOP	
PL4	12 32 00.A03	WILSONART	PLASTIC LAMINATE, SUN RAYS Z4271	CLASSROOM COUNTERTOP	
PL5	12 32 00.A03	WILSONART	PLASTIC LAMINATE, SWEET LEAF Z4271	CLASSROOM COUNTERTOP	
PL6	12 32 00.A03	WILSONART	PLASTIC LAMINATE, SOUTH SEAS Z4271	CLASSROOM COUNTERTOP	
PL7	12 32 00.A03	WILSONART	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271	CLASSROOM COUNTERTOP	
PL8	12 32 00.A01	WILSONART	PLASTIC LAMINATE, D96-60 SHADOW	ADMIN	
PL9	12 32 00.A03	WILSONART	PLASTIC LAMINATE - 4942-33 CRISP LINEN		
PL10	12 32 00.A01	WILSONART	PLASTIC LAMINATE, 7971K-12 UPTOWN WALNUT	CASEWORK	
PL11	12 32 00.A01	WILSONART	PLASTIC LAMINATE, 4944-33 CASUAL LINEN	CASEWORK	
PL12	12 32 00.A01	WILSONART	PLASTIC LAMINATE, 4943-33 CLASSIC LINEN		
PL13	12 32 00.A01	WILSONART	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL	FAMILY RESOURCE CENTER	
PS1	06 40 23.A13		MDF PANELS - 1/2" THICK - PAINTED ON ALL SIDES - ROUT OUT CUSTOM DESIGN		ARCHITECT TO PROVIDE ART WORK.
PS2			NOT USED		
PS3			NOT USED		
PS4			NOT USED		
PS5			NOT USED		
PS6	10 14 00.A03	SINTRA	PANEL SIGNAGE - ITEM # SINT-976-13M CUT OUT & DIGITALLY PRINTED		REFERENCE SIGNAGE PACKAGE FOR TYPES
RB1	09 65 13.A01	ROPPE	4" RESILIENT COVE BASE, 114 LUNAR DUST		
RS1	09 65 16.A01	MANNINTON	RESILIENT SHEET - BIOSPEC FINE FIELDS - COLOR: ECRU 10362	RESTROOMS	HEAT WELDED SEAMS. 6" COVE INTEGRAL BASE AT RESTROOMS.
RT1	09 65 19.A01	MOHAWK	LUXURY VINYL TILE, 142 KEN GARDENS		
RT2	09 65 19.A01	MOHAWK	LUXURY VINYL TILE - BOLDER - 888 SCHIST		
SC	03 30 00.A21		SEALED CONCRETE		
SS1	06 40 23.A19	HI-MACS, LG HAUSYS	SOLID SURFACE, M103 FIRENZE	COUNTERTOP	
SS2	06 40 23.A19	WILSONART	SOLID SURFACE, 9209GM MOON GEYSER		
T1	09 30 00.A01	AMERICAN OLEAN	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE 0061 3"x6"	RESTROOM WALL TILE	1/16" GROUT JOINT
T2	09 30 00.A01	CROSSVILLE	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G053, 20% G057, 15% G107, 15% G059		
T3	09 30 00.A01	CROSSVILLE	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G014, 20% G016, 15% G022, 15% G020		
T4	09 30 00.A01	CROSSVILLE	1"x1" GLASS WALL TILE, CUSTOM BLEND: 50% G004, 20% G010, 15% G001, 15% G062		
WC1	09 72 00.A01	MAHARAM	WALL COVERING - TWINKLE 899642 - 002	ADMIN ACCENT	
WC2	09 72 00.A01	3M - DESIGNTEX	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1456	BOOK NOOK	
WG1	09 72 53.A01		WALL GRAPHIC/VINYL -		ARCHITECT TO PROVIDE ARTWORK
WG2	10 14 00.A13	3M	WALL GRAPHIC/GLASS FILM - FULL COLOR VINYL GLASS GRAPHIC 3M SCHOTCHCAL CLEARVIEW GRAPHIC FILM IJ8150 WITH 3914 SCOTCHCAL OPTICALLY CLEAR OVERLAMINATE.		ARCHITECT TO PROVIDE ARTWORK
WG3	10 14 00.A11	3M	WALL GRAPHIC/VINYL - FULL COLOR VINYL WALL GRAPHIC: 3M SCOTCHCAL IJ8650-10 FULL COLOR GRAPHIC WITH 3M SCOTCHAL MATTE OVERLAMINATE 8520		ARCHITECT TO PROVIDE ARTWORK
WP1	09 77 23.A01	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, WT54		PURPLE
WP2	09 77 23.A01	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, WT19		SALMON
WP3	09 77 23.A01	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, WT21		ORANGE
WP4	09 77 23.A01	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, WT20		YELLOW
WP5	09 77 23.A02	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, TB1		GREEN
WP6	09 77 23.A02	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, TB7		TEAL
WP7	09 77 23.A01	XOREL	FABRIC WRAPPED PANEL, 6427 METEOR, TB9		BLUE
WP8	06 42 00.A01		BOARD PANELING - 5" HORIZONTAL SLATS - PAINTED TO MATCH PPG 1151-2 EMBELLISHMENT		

GENERAL FINISH NOTES

1. REFER TO FLOOR FINISH PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES
2. ALL INTERIOR GYPSUM SOFFITS FINISH AS NOTED ON THE HORIZONTAL SURFACE TO MATCH FINISH ON THE VERTICAL SURFACE, AS DESIGNATED ON SCHEDULE OR RCP.
3. UNO, ALL EXPOSED CEILINGS AS SPECIFIED TO BE PAINTED AS INDICATED ON ROOM FINISH SCHEDULE. EXTENT OF PAINTING INCLUDES, BUT NOT LIMITED TO, ANY EXPOSED STRUCTURE, JOISTS, ROOF DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECH EQUIPMENT, ETC.
4. UNO, DO NOT PAINT ANY NATURAL STONE/BRICK OR GLAZED BLOCK OR ANY OTHER PRE-FINISHED MATERIALS
5. INTENT IS FOR ALL GYP OUTSIDE CORNERS TO HAVE CORNER GUARDS.
6. UNO, ALL EXPOSED STEEL TO BE PAINTED.
7. UNO, INTERIOR HOLLOW METAL DOORS AND FRAMES TO PAINTED TO MATCH WALL BEHIND.
8. UNO, INTERIOR HOLLOW METAL FRAMES WITH WOOD DOORS TO BE PAINTED TO MATCH SW 7019 GAUNTLET GRAY. REF DOOR SCHEDULE FOR FLAM DOORS AND METAL FRAME FINISHES.
9. THE FOLLOWING ITEMS SHALL MATCH ADJACENT PAINT/SURFACE FINISH. ELECTRICAL PANELS IN FINISHED ROOMS, AIR GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED, UNFINISHED SPEAKER OUTLET GRILLES, VISIBLE PARTS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTILATORS, GRILLES, AND DIFFUSERS.
10. DO NOT PAINT ALUMINUM OR OTHER NON FERROUS METALS THAT ARE PREFINISHED.
11. NO TRANSISTION STRIP BETWEEN CARPET AND FLOOR FINISHES RT1 & RT2 - LEVEL TRANSISTION. PROVIDE TRANSISTIONS FOR ALL OTHER INSTANCES.
12. IN AREAS WITH MULTIPLE CAPETS, INSTALLERS TO PROVIDE DIGITAL REPRESENTATION OF LAYOUT TO INSURE DESIGN INTENT - ROTATION OF CARPET TILE DETERMINES DESIGN.

(13) SOLID SURFACE WINDOW SILLS TO BE SS1 (2)

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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: AH
CHECKED BY: NY
DATE: 09.30.2016

A681

_____ OF _____

MATERIAL FINISH LEGEND

10/25/2016 11:35:17 AM

ROOM FINISH SCHEDULE

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Remarks
A101	Vestibule	C2a	- -	- -	- -	- -	- -	P9	
A102	Reception	C9	RB1	P1	P1	P1/WG	WG1	ACT1	1
A103	Conference	C9	RB1	P1	P10	P1	P1	ACT1	
A104	Director's Office	C9	RB1	P1	P1	P10	P1	ACT1	
A105	Psych	C9	RB1	P1	P1	P10	P1	ACT1	
A106	Social Worker	C9	RB1	P1	P1	P10	P1	ACT1	
A107	SLP Center	C9	RB1	P1	P1	P10	P1	ACT1	
A108	Workroom	RT1	RB1	P1	P1	P10	P1	ACT1	
A109	Corridor	C9	RB1	WG1	P1	P1	P1/WG1	ACT1	
A110	Lounge	RT1	RB1	P1	P1	P1	P10	ACT1	
A111a	Building Service	SC	RB1	- -	- -	- -	- -	- -	
A111b	Server	SC	RB1	- -	- -	- -	- -	- -	
A112	Restroom	RS1	RS1	P10/T1	P10/T1	T1	P10/T1	ACT1	
A113	Restroom	RS1	RS1	P10/T1	P10/T1	P10/T1	T1	ACT1	
A114	Screening	RT1	RB1	P10	P1	P1	P1	ACT1	
A115	Screening	RT1	RB1	P10	P1	P1	P1	ACT1	
A116	Nurse	RT1	RB1	P1	P1	P5	P1	ACT1	
A117	Restroom	RS1	RS1	P5/T1	P5/T1	P5/T1	P5/T1	ACT1	
A118	Family Resource Center	RT1	RB1	P1	P1	P1/WP5	P1/WP5	REF RCP	
A119	Custodial	SC	RB1	P1	P1	P1	P1	- -	
A121	Classroom	C1a/C2a/ C8a/RT1	RB1	P1	P2	P1/WP1	P1/WP1	ACT1	PURPLE ACCENT
A122	Flex	C2a	RB1	P2	P2	P2	P2	ACT1	PURPLE ACCENT
A123	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
A124	Restrooms	RS1	RS1	T1/EP2	T1/EP2	T1/EP2	T1	ACT1	PURPLE ACCENT
A125	Classroom	C1a/C2a/ C8a/RT1	RB1	P1/WP1	P2	P1	P1/WP1	ACT1	PURPLE ACCENT
A126	Flex	C2b	RB1	P3	P3	P3	P3	ACT1	SALMON ACCENT
A127	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
A128	Restrooms	RS1	RS1	T1/EP3	T1/EP3	T1/EP3	T1	ACT1	SALMON ACCENT
A129	Classroom	C1b/C2b/ C8b/RT1	RB1	P1/WP2	P3	P1	P1/WP2	ACT1	SALMON ACCENT
A130	Corridor	RT1	RB1	- -	REF ELEV	- -	REF ELEV	REF RCP	
A131	Corridor	<By Category>	RB1	- -	P1/WP1	- -	P1/WP1	ACT1	
B101	Learing Grove	REF FFP	RB1	REF ELEV	WP3/P9/T3	WP3/P9	WP3/P9/ T3	REF RCP	REF FFP/ELEV/RCP FOR EXTENT OF FINISHES
B106	OT/PT	C8f	RB1	P1/WP6	P1	P7	P1	ACT1	
B107	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
B108	Office	C8f	RB1	P1	P1	P1	P1	ACT1	
B109	Tinkering	RT1	RB1	P1	P1	P1	P1	ACT1	
B110	Corridor	RT1	RB1	REF ELEV	P1	REF ELEV	P1	ACT1	
B111	Classroom	C1c/C2c/ C8c/RT1	RB1	P1/WP3	P1	P4	P1/WP3	ACT1	ORANGE ACCENT
B112	Flex	C2c	RB1	P4	P4	P4	P4	ACT1	ORANGE ACCENT
B113	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
B114	Restroom	RS1	RS1	T1/EP4	T1/EP4	T1/EP4	T1	ACT1	ORANGE ACCENT
B115	Classroom	C1c/C2c/ C8c/RT1	RB1	P1/WP3	P1/WP3	P4	P1	ACT1	ORANGE ACCENT
B116	Corridor	REF FFP	RB1	REF ELEV	P1	REF ELEV	P1	ACT2	
B117	Dramatic Play	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF FFP	REF RCP	NO BASE ON HOUSES
B118	Technology	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF ELEV	REF RCP	NO BASE ON HOUSES
B119	Writing	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF ELEV	REF RCP	NO BASE ON HOUSES
B120	Dramatic Play	P11	RB1	REF ELEV	REF ELEV	- -	REF ELEV	REF RCP	NO BASE ON TREE BLABES
B121	Classroom	C1d/C2d/ C8d/RT1	RB1	P1/WP4	P1	P5	P1/WP4	ACT1	YELLOW ACCENT
B122	Flex	C2d	RB1	P5	P5	P5	P5	ACT1	YELLOW ACCENT
B123	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
B124	Restroom	RS1	RS1	T1	T1/EP5	T1/EP5	T1/EP5	ACT1	YELLOW ACCENT
B125	Classroom	C1/RT1	RB1	P1/WP5	P1/WP5	P6	P1	ACT1	GREEN ACCENT
B126	Classroom	C1c/C2c/ C8c/RT1	RB1	P4	P1	P1/WP3	P1/WP3	ACT1	ORANGE ACCENT
B127	Flex	C2c	RB1	P4	P4	P4	P4	ACT1	ORANGE ACCENT
B128	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
B129	Restroom	RS1	RS1	T1/EP4	T1/EP4	T1	T1/EP4	ACT1	ORANGE ACCENT
B130	Classroom	C1c/C2c/ C8c/RT1	RB1	P4	P1/WP3	P1/WP3	P1	ACT1	ORANGE ACCENT
B131	Classroom	C1d/C2d/ C8d/RT1	RB1	P5	P1	P1/WP4	P1/WP4	ACT1	YELLOW ACCENT
B132	Flex	C2d	RB1	P5	P5	P5	P5	ACT1	YELLOW ACCENT
B133	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
B134	Restroom	RS1	RS1	T1/EP5	T1/EP5	T1	T1/EP5	ACT1	YELLOW ACCENT
B135	Classroom	C1e/C2e/ C8e/RT1	RB1	P6	P1/WP5	P1/WP5	P1	ACT1	GREEN ACCENT
B136	Book Nook	C4-C7	RB1	REF ELEV	WP3/P9	WP3/P9	REF ELEV	REF RCP	
C100	Vestibule	C8	RB1	P1	- -	- -	- -	REF RCP	
C101	Multi-Purpose	RT1	RB1	P1	P1/T3/WG3	P1	P1	ACT2/P9	1
C102	Storage	SC	RB1	P1	P1	P1	P1	ACT1	2
C103	PaT	C9	RB1	P1	P1	P1	P1	ACT1	
C104	Director's Office	C9	RB1	P1	P1	P1	P1	ACT1	
C105	Screening	C9	RB1	P1	P1	P1	P1	ACT1	
C106	Screening	C9	RB1	P1	P1	P1	P1	ACT1	
C107	Recieving / Kitchen	RS1	RS1	EP1	EP1	EP1	EP1	ACT3	
C108	Men's	RS1	RS1	T1	T1/EP3	T1/EP3	T1/EP3	ACT1	
C109	Women's	RS1	RS1	T1/EP3	T1/EP3	T1	T1/EP3	ACT1	
C110	Building Service	SC	RB1	P1	P1	P1	P1	- -	
C111	Table Storage	SC	RB1	P1	P1	P1	P1	ACT1	
C112	Multi-Purpose Storage	SC	RB1	P1	P1	P1	P1	- -	
C113	Corridor	REF FFP	RB1	REF ELEV	P1	REF ELEV	P1	REF ELEV	

ROOM FINISH SCHEDULE

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Remarks
C114	Create-a-Book	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF ELEV	REF RCP	
C115	Tactile	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF ELEV	REF RCP	
C116	Math & Science	C4-C7	RB1	- -	REF ELEV	REF ELEV	REF ELEV	REF RCP	NO BASE ON HOUSES
C117	Construction	C4-C7	RB1	REF ELEV	REF ELEV	REF ELEV	REF ELEV	REF RCP	NO BASE ON TREE BLADES
C118	Classroom	C1f/C2f/ C8f/RT1	RB1	P1/WP6	P1	P7	P1/WP6	ACT1	TEAL ACCENT
C119	Flex	C2f	RB1	P7	P7	P7	P7	ACT1	TEAL ACCENT
C120	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
C121	Restroom	RS1	RS1	T1	T1/EP7	T1/EP7	T1/EP7	ACT1	
C122	Classroom	C1f/C2f/ C8f/RT1	RB1	P1/WP6	P1/WP6	P7	P1	ACT1	TEAL ACCENT
C123	High Needs	C1g/C2g/ C8g/RT1	RB1	P1/WP7	P1	P8	P1/WP7	ACT1	BLUE ACCENT
C124	Flex	C2g	RB1	P8	P8	P8	P8	ACT1	
C125	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
C126	Restroom	RS1	RS1	T1	T1/EP8	T1/EP8	T1/EP8	ACT1	BLUE ACCENT
C127	Classroom	C1f/C2f/ C8f/RT1	RB1	P7	P1	P1/WP6	P1/WP6	ACT1	TEAL ACCENT
C128	Flex	C2f	RB1	P7	P7	P7	P7	ACT1	TEAL ACCENT
C129	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
C130	Restroom	RS1	RS1	T1/EP7	T1/EP7	T1	T1/EP7	ACT1	TEAL ACCENT
C131	Classroom	C1f/C2f/ C8f/RT1	RB1	P7	P1/WP6	P1/WP6	P1	ACT1	TEAL ACCENT
C132	Classroom	C1g/C2g/ C8g/RT1	RB1	P8	P1	P1/WP7	P1/WP7	ACT1	BLUE ACCENT
C133	Flex	C2g	RB1	P8	P8	P8	P8	ACT1	
C134	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
C135	Restroom	RS1	RS1	T1/EP8	T1/EP8	T1	T1/EP8	ACT1	BLUE ACCENT

ALTERNATE 2 ROOM FINISH SCHEDULE

ROOM		FLOOR		WALLS				CEILING	
NO	Name	Finish	Base	North	East	South	West	Finish	Finish Remarks
A132	Classroom	C1a/C2a/ C8a/RT1	RB1	P1	P1/WP1	P1/WP1	P2	ACT1	PURPLE ACCENT
A133	Flex	C2a	RB1	P2	P2	P2	P2	ACT1	PURPLE ACCENT
A134	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
A135	Restrooms	RS1	RS1	T1/EP2	T1	T1/EP2	T1/EP2	ACT1	PURPLE ACCENT
A136	Classroom	C1a/C2a/ C8a/RT1	RB1	P1/WP1	P1/WP1	P1	P2	ACT1	PURPLE ACCENT
A137	Flex	C2b	RB1	P3	P3	P3	P3	ACT1	SALMON ACCENT
A138	Storage	RT1	RB1	P1	P1	P1	P1	ACT1	
A139	Restrooms	RS1	RS1	T1/EP3	T1	T1/EP3	T1/EP3	ACT1	SALMON ACCENT
A140	Classroom	C1b/C2b/ C8b/RT1	RB1	P1/WP2	P3	P1	P1/WP2	ACT1	SALMON ACCENT

SHEET MATERIAL FINISH LEGEND

ID	MATERIAL
ACT1	24x48 ACOUSTICAL CEILING TILE - DUNE 1851 SQUARE EDGE - 15/16" GRID
ACT2	48x48 ACOUSTICAL CEILING TILE - OPTIMA TEGULAR - 9/16" SILHOUETTE 1/8" REVEAL
ACT3	24x48 HUMIDITY CONTROL - ECOPHON HYGIENE PERFORMANCE
C1a	CARPET TILE - COLORFIELD - 00128462 F25
C1b	CARPET TILE - COLORFIELD - 00128463 F25
C1c	CARPET TILE - COLORFIELD - 00128461 F25
C1d	CARPET TILE - COLORFIELD - 00128460 F25
C1e	CARPET TILE - COLORFIELD - 00128466 F25
C1f	CARPET TILE - COLORFIELD - 00128465 F25
C1g	CARPET TILE - COLORFIELD - 00128464 F25
C2a	CARPET TILE - COLORFIELD - COL110-54-174 NIGHT HORIZON
C2b	CARPET TILE - COLORFIELD - COL111-146-149 FIRETHORN
C2c	CARPET TILE - COLORFIELD - COL171-136-167 BUCKTHORN
C2d	CARPET TILE - COLORFIELD - COL65-135-105 TAN AURA
C2e	CARPET TILE - COLORFIELD - COL165-75-141 COLBALT GREEN
C2f	CARPET TILE - COLORFIELD - COL120-202-65 SULPHUR SPRING
C2g	CARPET TILE - COLORFIELD - COL146-201-149 BLUE AGAVE
C8a	CARPET TILE - COLORFIELD - COL110 LOGANBERRY
C8b	CARPET TILE - COLORFIELD - COL147 GARMINE
C8c	CARPET TILE - COLORFIELD - COL109 GOLD LEAF
C8d	CARPET TILE - COLORFIELD - COL184 FLAXEN
C8e	CARPET TILE - COLORFIELD - COL141 CELANDINE
C8f	CARPET TILE - COLORFIELD - COL201 MALLARD
C8g	CARPET TILE - COLORFIELD - COL126 OCEAN MIST
C4	CARPET TILE, PLANE LOW KT235, 656 GREEN
C5	CARPET TILE, PLANE HIGH KT236, 656 GREEN
C6	CARPET TILE, DIAGONAL RELIEF KT237, 656 GREEN
C7	CARPET TILE, FADE RELIEF KT238, 656 GREEN
C9	CARPET TILE, QUARRUS - ORBIT BRUSH, ORB 144-27 BOUDARY
C4	CARPET TILE, CHANGE II 03747 - PLASTIC INEVITABLE 10318 - 9"x36" PLANK
EP1	PAINT SEMI-GLOSS, SW7030 ANEW GRAY
EP2	PAINT SEMI-GLOSS, SATIN SERENADE #10RR 26/248
EP3	PAINT SEMI-GLOSS, FRESH SALMON #2BYR 45/364
EP4	PAINT SEMI-GLOSS, EGYPTIAN SUN #04YY 51/535
EP5	PAINT SEMI-GLOSS, SUN RAYS #2YY 66/537
EP6	PAINT SEMI-GLOSS, SWEET LEAF #32GY 51/432
EP7	PAINT SEMI-GLOSS, SOUTH SEAS #31GG 51/241
EP8	PAINT SEMI-GLOSS, BESIDE THE OCEAN #10BG 40/284
P1	PAINT EGGSHELL, SW7030 ANEW GRAY
P2	PAINT EGGSHELL, SATIN SERENADE #10RR 26/248
P3	PAINT EGGSHELL, FRESH SALMON #2BYR 45/364
P4	PAINT EGGSHELL, EGYPTIAN SUN #04YY 51/535
P5	PAINT EGGSHELL, SUN RAYS #2YY 66/537
P6	PAINT EGGSHELL, SWEET LEAF #32GY 51/432
P7	PAINT EGGSHELL, SOUTH SEAS #31GG 51/241
P8	PAINT EGGSHELL, BESIDE THE OCEAN #10BG 40/284
P9	PAINT FLAT, SW 7006 EXTRA WHITE
P10	PAINT EGGSHELL, SW 6483 BEETIDE
P11	PAINT EGGSHELL, CHALKBOARD PAINT 503 - BLACK
FL1	PLASTIC LAMINATE, SATIN SERENADE Z4271
FL2	PLASTIC LAMINATE, FRESH SALMON Z4271
FL3	PLASTIC LAMINATE, EGYPTIAN SUN Z4271
FL4	PLASTIC LAMINATE, SUN RAYS Z4271
FL5	PLASTIC LAMINATE, SWEET LEAF Z4271
FL6	PLASTIC LAMINATE, SOUTH SEAS Z4271
FL7	PLASTIC LAMINATE, BESIDE THE OCEAN Z4271
FL8	PLASTIC LAMINATE, D96-60 SHADOW
FL9	PLASTIC LAMINATE - 4942-38 CRISP LINEN
FL10	PLASTIC LAMINATE, 7911K-12 UPTOWN WALNUT
FL11	PLASTIC LAMINATE, 4944-38 CASUAL LINEN
FL12	PLASTIC LAMINATE, 4948-38 CLASSIC LINEN
FL13	PLASTIC LAMINATE, 8211K-28 PHANTOM PEARL
PB1	MDF PANELS - 1/2" THICK - PAINTED ON ALL SIDES - ROUT CUT CUSTOM DESIGN
PB2	NOT USED
PB3	NOT USED
PB4	NOT USED
PB5	NOT USED
PB6	PANEL SIGNAGE - ITEM # SINT-974-18M CUT OUT & DIGITALLY PRINTED
RB1	4" RESILIENT COVE BASE, 114 LUNAR DUST
RS1	RESILIENT SHEET - BIOSPEC FINE FIELDS - COLOR: ECRU 10862
RT1	LUXURY VINYL TILE, 142 KEN GARDENS
RT2	LUXURY VINYL TILE - BOLDER - 888 SCHIST
SC	SEALED CONCRETE
SS1	SOLID SURFACE, M105 FIRENZE
SS2	SOLID SURFACE, 9209CM MOON GEYSER
T1	GLAZED CERAMIC WALL TILE - BRIGHT & MATTE PROFILES COLOR: DESIGNER WHITE GC61 3"x6"
T2	1"x1" GLASS WALL TILE CUSTOM BLEND: 50% GC53, 20% GC57, 15% GC07, 15% GC54
T3	1"x1" GLASS WALL TILE CUSTOM BLEND: 50% GC14, 20% GC16, 15% GC22, 15% GC20
T4	1"x1" GLASS WALL TILE CUSTOM BLEND: 50% GC04, 20% GC10, 15% GC01, 15% GC62
WG1	WALL COVERING - TWINKLE 399642 - 002
WG2	WALL COVERING -DI-NOC ARCHITECTURAL FINISHES - PURE COLOR - PS-1486
WG1	WALL GRAPHIC/VINYL -
WG2	WALL GRAPHIC/GLASS FILM - FULL COLOR VINYL GLASS GRAPHIC 3M SCHOTCHCAL CLEARVIEW GRAPHIC FILM UV35P WITH 8414 SCOTCHAL OPTICALLY CLEAR OVERLAMINATE.
WG3	WALL GRAPHIC/VINYL - FULL COLOR VINYL WALL GRAPHIC. 3M SCOTCHCAL UV35D-10 FULL COLOR GRAPHIC WITH 3M SCOTCHAL MATTE OVERLAMINATE 8520
WP1	FABRIC WRAPPED PANEL, 6427 METEOR, WT54
WP2	FABRIC WRAPPED PANEL, 6427 METEOR, WT19
WP3	FABRIC WRAPPED PANEL, 6427 METEOR, WT21
WP4	FABRIC WRAPPED PANEL, 6427 METEOR, WT20
WP5	FABRIC WRAPPED PANEL, 6427 METEOR, T31
WP6	FABRIC WRAPPED PANEL, 6427 METEOR, T37
WP7	FABRIC WRAPPED PANEL, 6427 METEOR, T39
WP8	BOARD PANELING - 3" HORIZONTAL SLATS - PAINTED TO MATCH FPG 1151-2 EMBELLISHMENT

ROOM FINISH SCHEDULE NOTES

1. GYP BOARD BEHIND WG1 & WG3 TO RECIEVE LEVEL 5 FINISH.
2.

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MEP Engineers
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100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.28.2016

STATE OF MISSOURI
JOHN GILBERT BROWN
NUMBER A-6538
REGISTERED ARCHITECT

JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

A682

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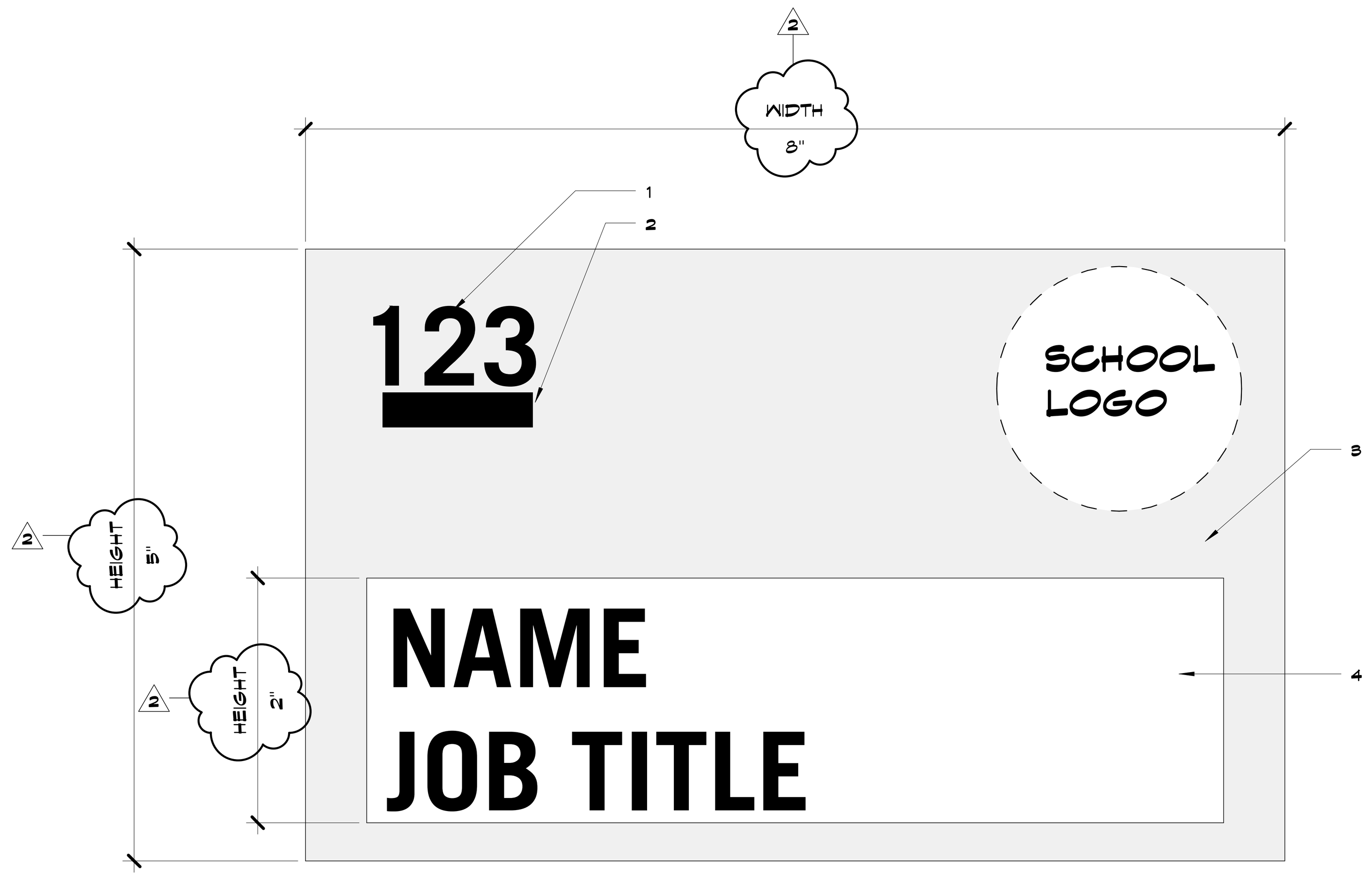
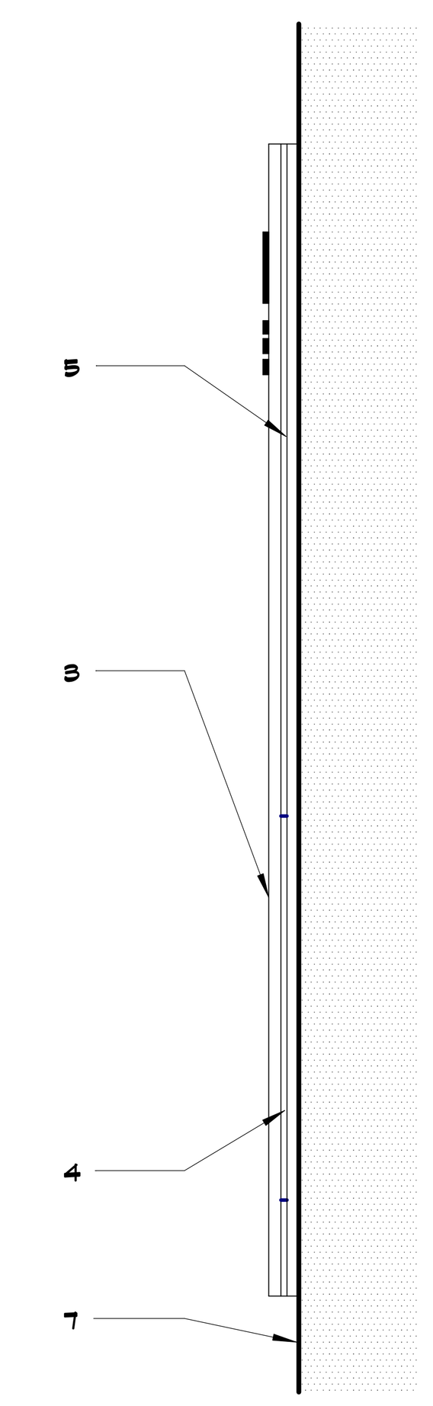
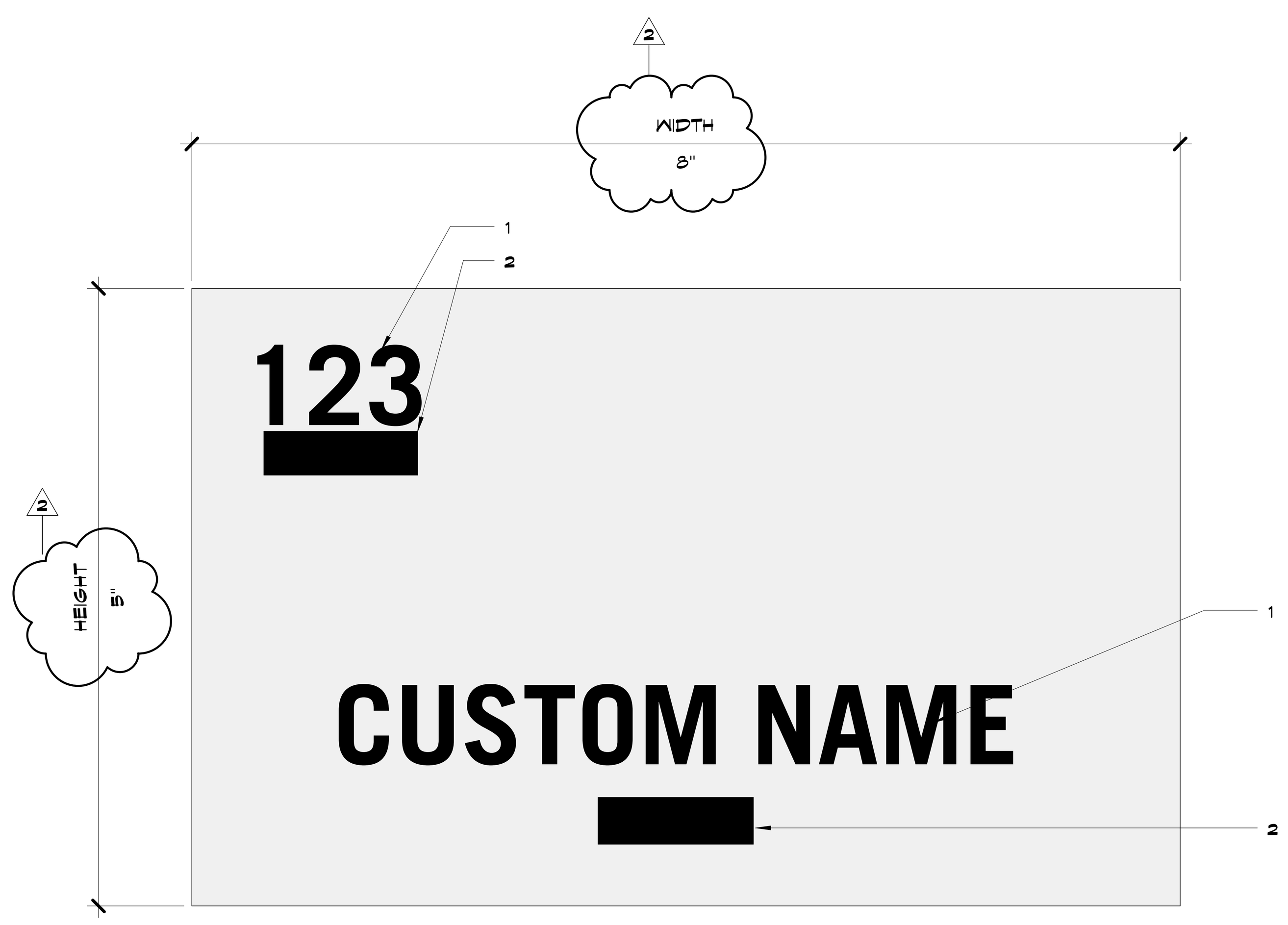
ROOM FINISH SCHEDULE



TYPE 1

NOTE: FIGURES SHOW FOR REF. ONLY. CUSTOM ARTWORK BY ARCHITECT - TBD





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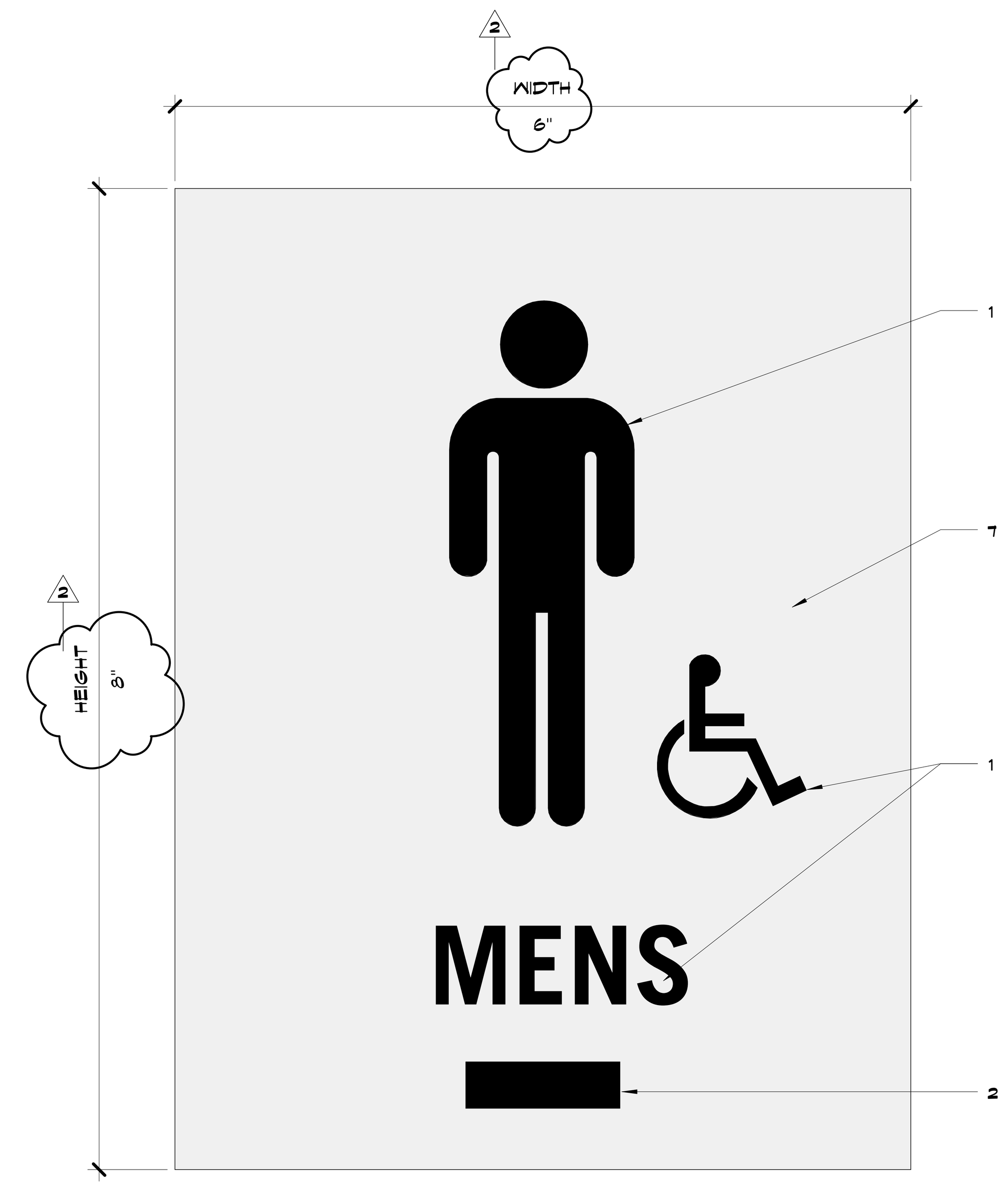

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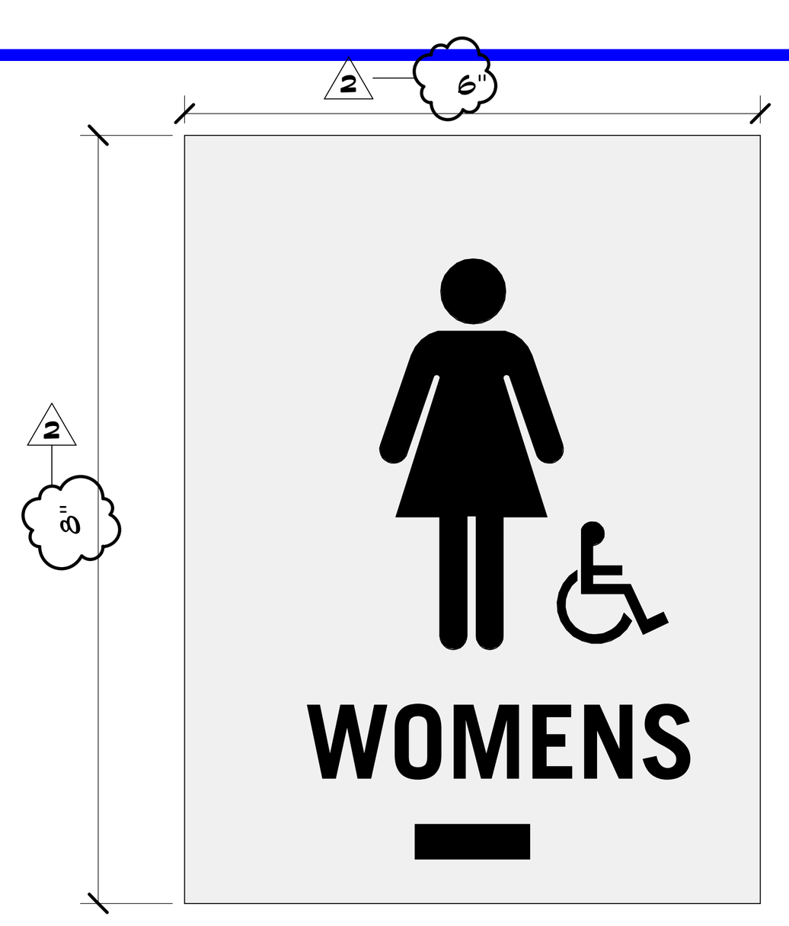

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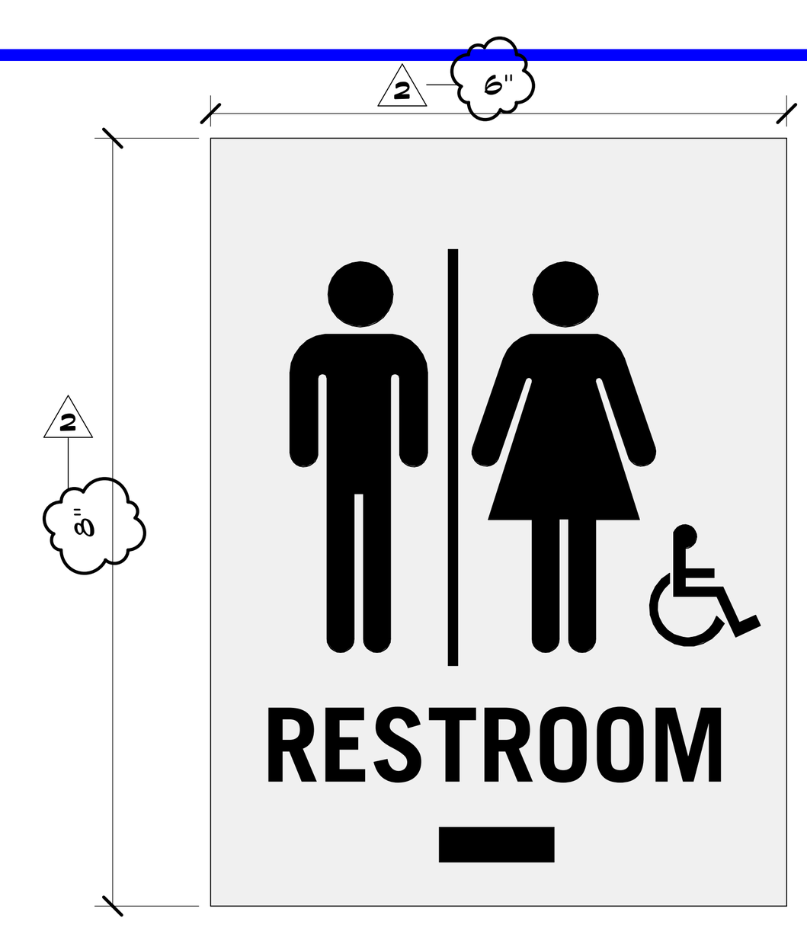

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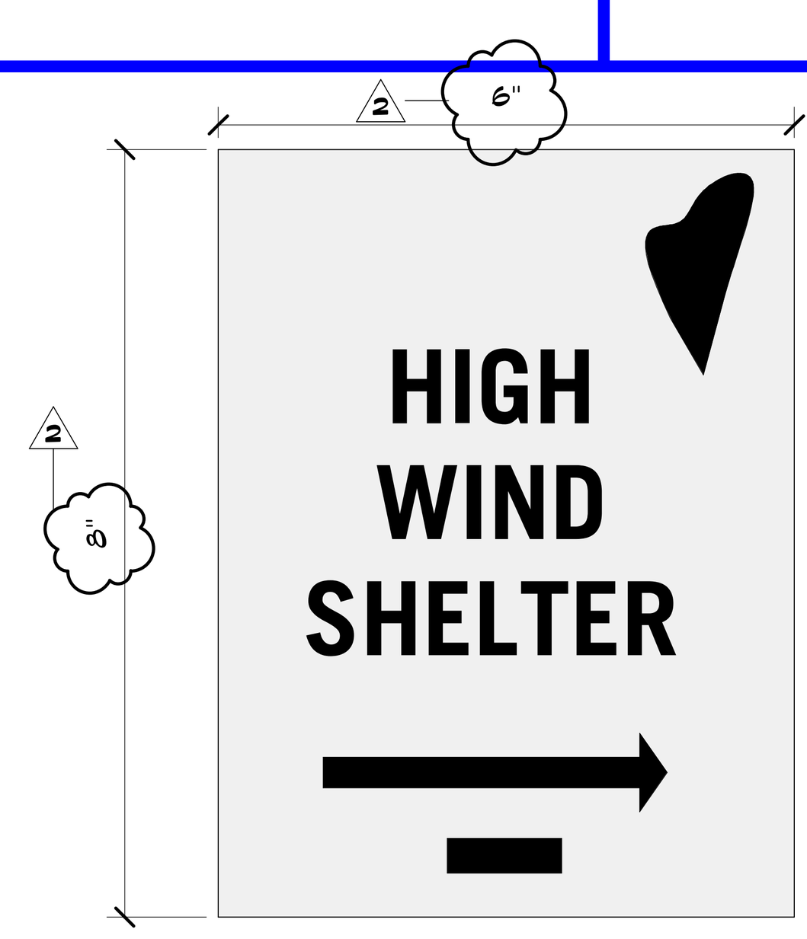

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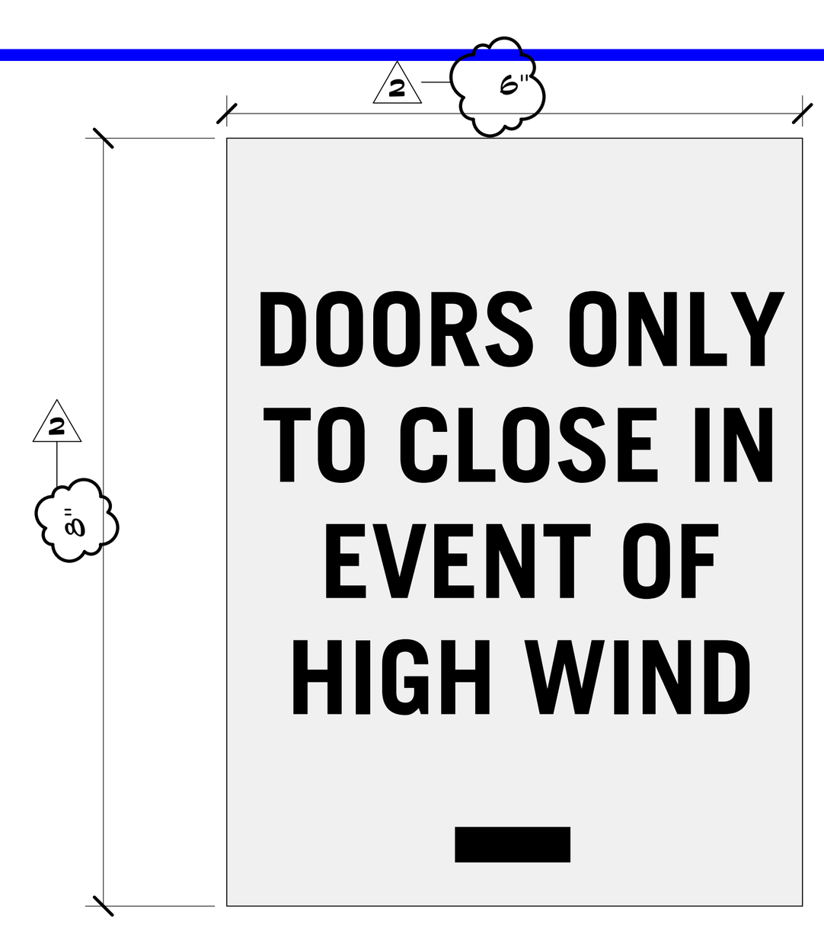

TYPE 7

Room Signage - By Room

Room: Number	Room: Name	Room: School District Room Number	Type	Comments
A103	Conference		TYPE 2	
A104	Director's Office		TYPE 1	
A105	Psych		TYPE 1	
A106	Social Worker		TYPE 1	
A107	SLP Center		TYPE 2	
A111a	Building Service		TYPE 1	
A112	Restroom		TYPE 3	
A113	Restroom		TYPE 3	
A114	Screening		TYPE 2	
A115	Screening		TYPE 2	
A116	Nurse		TYPE 1	
A116	Nurse		TYPE 1	
A118	Family Resource Center		TYPE 2	
A119	Custodial		TYPE 2	
A121	Classroom		TYPE 1	Glass Mount
A125	Classroom		TYPE 1	Glass Mount
A129	Classroom		TYPE 1	Glass Mount
B101	Learing Grove		TYPE 6	
B106	OT/PT		TYPE 2	
B109	Tinkering		TYPE 2	
B111	Classroom		TYPE 1	Glass Mount
B115	Classroom		TYPE 1	Glass Mount
B116	Corridor		TYPE 7	
B121	Classroom		TYPE 1	Glass Mount
B125	Classroom		TYPE 1	Glass Mount
B126	Classroom		TYPE 1	Glass Mount
B130	Classroom		TYPE 1	Glass Mount
B131	Classroom		TYPE 1	Glass Mount
B135	Classroom		TYPE 1	Glass Mount
C102	Storage		TYPE 2	
C103	PaT		TYPE 1	
C107	Recieving / Kitchen		TYPE 2	
C108	Men's		TYPE 3	
C109	Women's		TYPE 4	
C110	Building Service		TYPE 2	
C111	Table Storage		TYPE 2	
C112	Multi-Purpose Storage		TYPE 2	
C113	Corridor		TYPE 6	
C118	Classroom		TYPE 1	Glass Mount
C122	Classroom		TYPE 1	Glass Mount
C123	High Needs		TYPE 1	Glass Mount
C127	Classroom		TYPE 1	Glass Mount
C131	Classroom		TYPE 1	Glass Mount
C132	Classroom		TYPE 1	Glass Mount

Grand total: 44

Room Signage - Alternate

Room: Number	Room: Name	Room: School District Room Number	Type	Comments
A132	Classroom		TYPE 1	Glass Mount
A136	Classroom		TYPE 1	Glass Mount
A140	Classroom		TYPE 1	Glass Mount

Grand total: 3

GENERAL NOTES

1. RAISED COPY, FONT TO BE SELECTED BY ARCHITECT
2. GRADE II BRAILLE, CLEAR
3. 1/8" THICK CLEAR ACRYLIC, FLAME POLISHED EDGES, VINYL GRAPHIC APPLIED 2ND SURFACE
4. INSERT SLOT, ACCESSIBLE BOTH ENDS.
5. 1/16" THICK, CLEAR ACRYLIC SPACE LAYER
6. MOUNT TO WALL WITH VHB TAPE
7. 3/8" THICK, CLEAR ACRYLIC, FLAME POLISHED EDGES, VINYL GRAPHIC APPLIED SECOND SURFACE
8. ALUMINUM SHEET W/ PRINTED GRAPHIC & TEXT

NOTE: CONTRACTOR SHALL VERIFY ALL SIGNAGE REQUIREMENTS (TEXT, ROOM NUMBERS ETC.) WITH OWNER PRIOR TO PROCUREMENT

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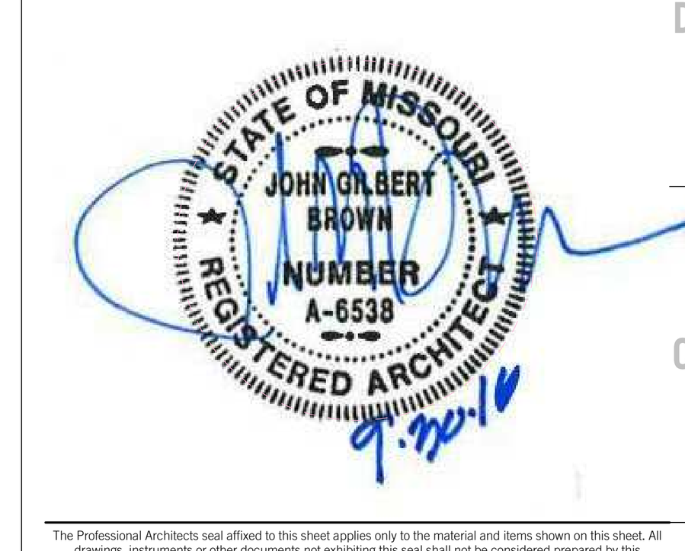
417.782.7389 fax

100% BID DOCUMENTS

Joplin Early Childhood Center
Joplin Schools
2810 South McClelland Blvd.
Joplin, MO

REVISIONS:

#	Description	Date
2	Addendum 2	10.25.2016



JOB NO: 16054
DRAWN BY: Author
CHECKED BY: Checker
DATE: 09.30.2016

A811

___ OF ___

SIGNAGE TYPES

A. Building Code

1. The design and construction shall conform to the 2012 International Building Code (IBC) as amended by the City of Joplin, Missouri.

B. Design Loads

1. This project is designed to resist the most critical loads resulting from the basic load combinations outlined in section 1605 of the code.

2. Dead Loads
   a. The roof mounted equipment weights used for design are indicated on the contract documents. The Contractor shall submit actual weights for all roof mounted equipment for review by the Engineer.
   b. Total service roof dead load: 25 psf.

3. Live Loads
   a. Code Loads
      1. Roof 30 psf
      2. Hollow Core 100 psf
   b. Live load reduction has not been utilized.

4. Wind - The wind load is in accordance with ASCE 7-10 with the following criteria:
   a. Basic wind speed V3S=120 mph
   b. Risk Category III
   c. Exposure Factor C
   d. Internal Pressure Coifficient ±.18
   e. Components & Cladding Force per code

5. High wind area - The wind load is in accordance with ICC 500-08 with the following criteria: (1)
   a. Basic wind speed V3s=250 mph
   b. Building Category III
   c. Exposure Factor IW=1.0
   d. Internal Pressure Coifficient ±0.55
   e. Topographic Factor 1.0
   f. Directionality Factor 1.0
   g. Missile Impact Protection is Required

6. Snow - The snow load is in accordance with ASCE 7-10 with the following criteria:
   a. Ground snow load pg=30 psf,
   b. Exposure Factor Ce=0.9
   c. Importance Factor IS=1.10
   d. Thermal factor Ct=1.0

7. Seismic - The seismic design is in accordance with the general building code with the following criteria:
   a. Importance Factor IE=1.25
   b. Risk Category III
   c. 0.2 sec Spectral Response Acceleration Ss=12.9%
   d. 1.0 sec Spectral Response Acceleration S1=7.9%
   e. Soil Site Class D
   f. Design 0.2sec Spectral Response Acceleration Sds=13.8%
   g. Design 1.0sec Spectral Response Acceleration Sd1=12.7%
   h. Seismic Design Category B
   i. Basic Seismic Force Resisting System Light frame walls with shear panels of all other materials
   j. Design Base Shear 90 kips
   k. Seismic Response Coefficient Cs=0.086
   l. Response Modification Coefficient R=2.0
   m. Analysis Procedure Equivalent Lateral Force

C. Foundations

1. Geotechnical Report
   a. Read and be familiar with all aspects of the Geotechnical Engineering report which was prepared by Anderson Engineering, June 22, 2016, work order #50040-16.
   b. If any existing field conditions vary from the geotechnical report, it is the responsibility of the contractor to notify the Geotechnical Engineer, Architect and Engineer of Record.

2. Spread Footings, Trench Footing and Grade Beams
   a. All shallow foundations have been designed to bear on undisturbed soil or engineered fill for a net allowable bearing pressure of 2000 psf.

3. All structural concrete utilized for the purpose of retaining soil shall attain full design strength prior to any backfill being placed against the concrete.

4. Side forms for trenched foundations are not required.

D. Concrete

1. All concrete and reinforcing details shall conform to ACI 318-11 and CRSI "Manual of Standard Practice".

2. Strength - The following areas shall have a minimum 28 day compressive strength:
   a. Interior flatwork concrete: 4000 psi
   b. Exterior flatwork concrete: 4000 psi
   c. Footing and grade beams: 3000 psi
   d. Walls: 4000 psi

3. No water may be added to the concrete mix on the job site unless specifically withheld at the batch plant. The workability should be attained through the use of water-reducing agents and/or super-plasticizing chemical admixtures.

4. Reinforcing
   a. Grade
      1. Typical reinforcing ASTM A615, Grade 60
      2. Welded reinforcing ASTM A706
   b. Lap splices and development lengths in reinforcement shall be 48 bar diameters unless indicated elsewhere in the drawings and specifications. Lap welded wire reinforcing one full mesh space plus 2 inches.
   c. Welded Wire Reinforcing ASTM A185
      1. All welded wire reinforcing for slab on grade shall be supported on metal chairs specifically designed for soil bearing conditions. Pulling reinforcing up during concrete placement is not allowed.
   d. All concrete shall be reinforced unless specifically identified on the drawings as unreinforced. Reinforce sections with similar conditions located elsewhere on the project.
   e. All synthetic and steel fiber reinforcement shall be considered secondary reinforcing only.

5. Concrete cover shall be the following.
   a. Concrete cast against and exposed to earth 3"
   b. Concrete exposed to weather #5 and smaller 1 ½"
   c. Concrete exposed to weather #6 and larger 2"
   d. Concrete not exposed to weather or earth
      1. Slabs, wall and joist ¾"

6. All openings in slabs, walls, foundations, etc. shall have an additional 2-#5's on each side, in each corner of the opening and each face of the member. Extend reinforcing 2'-6" beyond edge of opening.

7. Aluminum items shall not be embedded in concrete.

8. House keeping pads and toppings slabs shall be reinforced with WWR 6x6-2.1x2.1, unless indicated elsewhere in the drawings and specifications.

E. Pre-Cast Concrete

1. All pre-cast design, detailing and connections shall be in accordance with the recommendations of PCI.

2. All pre-cast members shall have a minimum concrete strength of 5000 psi at 28 days.

3. Post tensioning strands shall be 270 ksi low relaxation strands.

4. All pre-cast design, including panel to panel connections and connections to the structure shall be the responsibility of the Contractor. Calculations shall be prepared and submitted along with shop drawings for review. All calculations shall be signed and sealed by a registered, professional engineer licensed in the State of the project. It is preferable that the calculations be well organized and indexed for ease of review.

F. Masonry

1. All masonry design and detailing shall be in accordance with the recommendations of TMS 402/ACI 530.

2. Materials
   a. Design strength f'm = 2000 psi

3. Minimum reinforcing for 8" and 12" non-load bearing masonry shall be (1)#4 at 48" on center minimum. Reference the Architectural drawings for location of all non-load bearing walls.

4. Control joints in all masonry shall be at 20 feet maximum on center unless indicated elsewhere in the drawings and specifications. All horizontal joint reinforcement shall be discontinuous at vertical control joints. All horizontal reinforcement in bond beams shall be continuous through vertical control joints. Reference Architectural plans and elevations for joint location and typical details.

5. All CMU shall be running bond unless otherwise noted in the contract documents.

6. When stacked bond is used for wall framing, the Contractor shall provide a continuous bond beam at 4'-0" on center vertically, reinforced with 1-#4 continuous.

7. Reinforcement Details
   a. Rebar positioners shall be used for all reinforcing and all vertical cells should be free of debris and excess mortar such that a minimum space of 3" by 3" is maintained to ease the placement of grout.
   b. Lap splices shall be 48 bar diameters minimum unless indicated elsewhere in the drawings and specifications.
   c. Locate wall reinforcing at jambs, ends of walls and each side of control joints. Reference typical details for additional reinforcing information.
   d. Reinforcing shall be placed prior to grouting.

8. Grout shall be consolidated by means of mechanical vibration unless self-consolidating grout is used.

9. Grout solid all units below grade and below finish floor.

G. Structural Steel

1. All steel fabrication and erection shall be in accordance with the requirements and recommendations of the American Institute of Steel Construction (AISC) Manual of Steel Construction, 14th edition
   a. Steel design shall be per Allowable Stress Design or Load and Resistance Factor Design as outlined by AISC.

2. Grade
   a. Steel W and WT-shapes ASTM A992 or ASTM A572, Gr. 50
   b. Channels, angles and plates ASTM A36
   c. Square hollow structural shapes ASTM A500, Grade B (46 ksi)
   d. Round hollow structural shapes ASTM A500, Grade B (42 ksi)
   e. Connection material ASTM A36

3. Connections
   a. Connection design shall be based on reactions listed on the drawings and specifications. Minimum connection design shall be 15 Kips unless noted otherwise. All gravity and lateral loads noted in the drawings are service level loads.
   b. All connection design calculations shall be signed and sealed by a licensed, professional engineer licensed in the State of the project.
   c. All bolted lateral bracing connections (beams, columns, and bracing) shall be designed as slip critical connections.
   d. It is the preference of the Engineer of record to have shop welded, field bolted connections unless shown otherwise on the drawings.

4. Anchor Rods
   a. Anchor rods shall conform to ASTM F1554, Grade 55.
   b. Steel or plywood templates shall be used for all anchor rod placement in concrete and masonry.

5. Thermal cutting is not allowed in the field.

6. The contractor shall supply all miscellaneous steel as required by the contract documents. Miscellaneous steel shall include, but is not limited to, shelf angle, glass support, lintels, catwalks and other steel required for stabilization of architectural elements.

H. Steel Deck

1. Steel roof and floor deck shall be designed, fabricated and erected in accordance with the recommendations of the latest edition of Steel Deck Institute (SDI) Manual.

2. Roof diaphragm shear connections shall be minimum X-EPN-19 36/4 with 3-#10 screw in nested side laps. The Contractor shall verify the diaphragm shear connection design with the diaphragm shear loads provided on the plans.

3. Crimped or button punched side lap fastening is not allowed for any roof deck or floor deck.

4. All roof deck shall be designed for a net uplift of 41psf in the corners, 25psf at the edges and 10 psf in the field of the building. Edge zone = 6 feet

J. Post Installed Anchors

1. All post installed anchors shall be installed per the manufactures recommendations.
   a. Install expansion anchors per the manufactures recommended standard embedment unless otherwise noted in the contract documents.
   b. The embedment of all post installed anchors shall be defined as the distance from the surface of the loaded material and the deepest part of the anchor after the anchor is placed but not expanded.

2. All expansion anchors shall perform to a minimum load capacity of the Hilti Kwik Bolt 3 or approved equal.

3. All adhesive anchors embedded in concrete shall perform to a minimum load capacity of the Hilti Hit HY-200 MAX Adhesive Anchors.

4. All anchors shall be stainless steel at exterior exposed conditions.

K. Cold Formed Steel

1. All cold formed steel framing shall be designed, fabricated and erected in accordance with the recommendations of latest edition of the American Iron and Steel Institute (AISI) Specification.

2. All cold formed steel indicated in these contract documents have been referenced by the Steel Stud Manufacturers Association (SSMA) nomenclature.

3. Wall bridging shall be installed at 4'-0" on center maximum.

4. Top and bottom tracks shall match the wall stud thickness and depth.

5. All welding shall conform to latest AWS D1.3.

6. Pre-drill holes for all screws which are not self-tapping.

7. All lapped, screwed connections shall be made with a minimum of 4-#12 screws or the equivalent weld unless noted otherwise.

8. All screwed connections shall provide for a minimum of ½" edge distance and spacing. All screws shall be completely installed such that the plies of metal being connected are tight to one another.

9. All floor and roof framing shall align with the wall stud below.

10. Joist bridging shall be spaced at 8'-0" maximum; use simpson TB27 or equivalent.

11. All framing members shall be cut square such that they fit tight at all perpendicularconnections.

12. Field splices of structural cold formed members are not allowed.

L. Cold Formed Steel Trusses

1. All cold formed steel trusses shall be designed, fabricated and erected in accordance with the recommendations of AISI.

2. Design calculations shall be prepared by a registered, professional licensed engineer in the State of the project.

3. Loads
   a. Top chord roof dead load: 15psf
   b. Top chord roof live load: 30psf
   c. Bottom chord roof dead load: 10psf
   d. Bottom chord roof live load: 10psf (non-concurrent)

4. Girder truss support shall be a minimum 3 full height studs continuous to the foundation.

5. Shop drawings shall be prepared under the supervision of a licensed engineer. Submit layout plans, typical details, bracing requirements and truss design details for the entire project. Design calculations shall be submitted and signed and sealed by a professional engineer in the State of the project.

6. All cold formed steel trusses shall be designed for a net uplift of 38psf in the corners, 22psf at the edges and 10psf in the field of the building. Edge zone = 6 feet.

7. Bottom chords of trusses are not braced by ceiling framing

M. Miscellaneous

1. Site visits will be made by representatives of Hollis and Miller Architects in order to establish the general conformance of the construction to the contract documents. Observations by the Engineer shall not be considered inspections and in no way relieves the Contractor of any requirements of the contract documents.

2. Stability of the structure during construction, including load bearing and non-load bearing masonry wall, is the responsibility of the Contractor. The Engineer is responsible for the stability of the completed structure only.

3. Conflict between the Architectural and Structural Drawings shall be brought to the attention of the Architect and Engineer immediately. When conflicts occur between the drawings and the specifications, the strictest interpretation shall govern.

4. The Engineer shall not be in control of, have charge of, or be responsible for the construction means and methods. The contractor is solely responsible for all construction means, methods, procedures, techniques and job sequence.

5. Typical details are intended to represent typical conditions for the entire project. Typical details may or may not be indicated on plans

6. All existing field and building conditions shall be verified by the Contractor before any other work shall begin. Coordinate with Engineer of Record regarding any discrepancy with existing building dimensions.

7. Submittals
   a. Submittals are to be based upon the latest submitted contract documents. This includes all addendums, Architectural Supplemental Instructions (ASIs) and Structural Supplemental Drawings (SSD's) and Requests for Information (RFI's).
   b. Submittals shall be original documents. Shop drawings shall not be a duplication, in any way,of the contract documents. This includes, but is not limited to, photocopies, electronic drawing copying or electronic scanning. Any submitted shop drawing that is not original will be rejected and returned without review.
   c. Prior to submission of the submittals to the Architect, the Contractor shall review the shop drawings for conformance to the means, methods, techniques, sequences and operations of construction. The Contractor's review stamp shall be affixed to all shop drawings prior to Architect or Structural Engineer review. Shop drawings not bearing the Contractor's review stamp will be returned without review.
   d. Design Calculations - All calculations shall be signed and sealed by a professional engineer licensed in the State of the project. Provide the following design calculations for review:
      1. Structural Steel connections
      2. Steel Stairs Framing
      3. Structural and Architectural Pre-Cast Concrete.
      4. Prefabricated cold formed steel trusses
   e. Submittals - Provide the following submittals for review:
      1. Concrete Mix Design and Materials
      2. Concrete Reinforcing
      3. Embedded Items (plates, angles, etc.)
      4. Structural Pre-Cast Concrete
      5. Masonry Products and Materials
      6. Masonry Reinforcing
      7. Structural Steel
      8. Miscellaneous Steel including lintels, stairs, etc.
      9. Metal Deck
      10. Prefabricated cold formed steel Trusses
   f. Substitutions are allowed prior to bid only. Reference the specifications for timing of submission

N. Special Inspections (based on 2012 IBC, Chapter 1704)

1. Special inspection reports shall be submitted to the Building Official, Owner, Architect, Engineer, Contractor, Sub-Contractor and any other pertinent entity in a timely manner.

2. All discrepancies found by the special inspector shall immediately be brought to the attention of the general contractor and corrected. If the contractor is unable to correct the discrepancy, the special inspector shall notify the Architect and Engineer.

3. Upon completion of the project, the special inspector shall submit a final report delineating that the work was, to the best of the inspector's knowledge, completed in conformance with the approved contract documents and applicable building code.

4. The Owner shall retain special inspection services for the items listed below. The Contractor shall provide light gerneral labor as required to assist with special inspections.

5. Foundations
   a. Bearing capacity
   b. Bearing elevation

6. Concrete
   a. Reinforcing steel placement
   b. Embedded items in concrete
   c. Concrete placement technique
   d. Sampling of fresh concrete

7. Pre-Cast Concrete
   a. Pre-Cast

8. Masonry
   a. Reinforcing steel placement
   b. Sampling of fresh grout and mortar
   c. Grout placement technique
   d. Level 1 special inspection required

9. Steel (includes structural steel, joist, deck and anchor rod placement)
   a. Periodic
      1. Single-pass fillet welds not exceeding 5/16 inch in size.
      2. Floor and roof deck attachment
      3. Headed stud anchors
      4. Welding of stairs and railing systems
      5. High strength bolts
   b. Continuous
      1. Partial and full penetration welds.
      2. All other welding not covered in periodic inspections.

10. Cold Formed Steel
   a. Screw pattern
   b. Welding

11. Post installed Anchors

ABBREVIATIONS

A	
AFF	above finish floor
ADDL	additional
ALT	alternate
ARCH	architect
AR	anchor rod
B	
BLDG	building
BM	beam
BOT	bottom
BRG	bearing
BTWN	between
C	
C	compression
CANT	cantilever
CL	center line
CLR	clear
CIP	cast in place
CJ	control joint
CJP	complete joint penetration
COL	column
CMU	concrete masonry unit
CONC	concrete
CONN	connection
CONST JT	construction joint
CONT	continuous
D	
db	bar diameter
DBA	deformed bar anchor
DTL	detail
DIA	diameter
DIM	dimension
DL	dead load
DN	down
DWG	drawing
DWL	dowel
E	
EL	seismic load
E	modulus of elasticity
EA	each
EF	each face
EXP JT	expansion joint
ELEV	elevation
ENGR	engineer
EQ	equal
EW	each way
EXIST	existing
EXT	exterior
F	
FB	field bend
FD	floor drain
FF	finish floor
FIN	finish
FND	foundation
FLR	floor
FTG	footing
FS	far side
FV	field verify
G	
GA	gauge
GB	grade beam
GALV	galvanized
H	
HORZ	horizontal
HSA	headed stud anchor
HSS	hollow structural section
HT	height
I	
IF	inside face
INT	interior
J	
JST	joist
JT	joint
K	
K	kip (1000 lbs)
KSF	kips per square foot
KSI	kips per square inch
L	
L	angle
LL	live load
LBS	pounds
ld	development length
LL	double angle
LLBB	long leg back to back
LLH	long leg horizontal
LLV	long leg vertical
LWT	light weight
M	
MAX	maximum
MECH	mechanical
MEP	mechanical/electrical/plumbing
MEZZ	mezzanine
MFR	manufacturer
MIN	minimum
MIR	mirror
MISC	miscellaneous
N	
NIC	not in contract
NS	near side
NTS	not to scale
NWT	normal weight
O	
OF	outside face
OC	on center
OPNG	opening
OPP	opposite
P	
PAF	powder actuated fastener
PC	precast
PCF	pounds per cubic foot
PEN	penetration
PL	plate
PLF	pounds per linear foot
PSF	pounds per square foot
PSI	pounds per square inch
PTL	point load
R	
R	radius
RE	reference
REINF	reinforcement or reinforcing
REQD	required
REV	revision
RTU	roof top unit
S	
SL	snow load
SC	slip critical
SCHED	schedule
SECT	section
SHT	sheet
SIM	similar
SPA	spacing
SPEC	specification
SQ	square
STD	standard
STIF	stiffener
STL	steel
SYM	symmetrical
T	
t	thickness
T	tension
THRD	threaded rod
TO	top of
TOC	top of concrete
TOM	top of masnry
TOS	top of steel
TOW	top of wall
TYP	typical
U	
UNO	unless noted otherwise
V	
VAR	varies
VERT	vertical
W	
W	distributed load
W/	with
WL	wind load
WP	work point
WT	weight
WWR	welded wire reinforcing
Y	
YD	cubic yard

SCHEDULE NOTES

BASE PLATE DETAILS PER E13/S600
ANCHOR ROD DETAILS PER A13/S600

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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

John E. Funk
E-2000173299

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S000

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GENERAL NOTES

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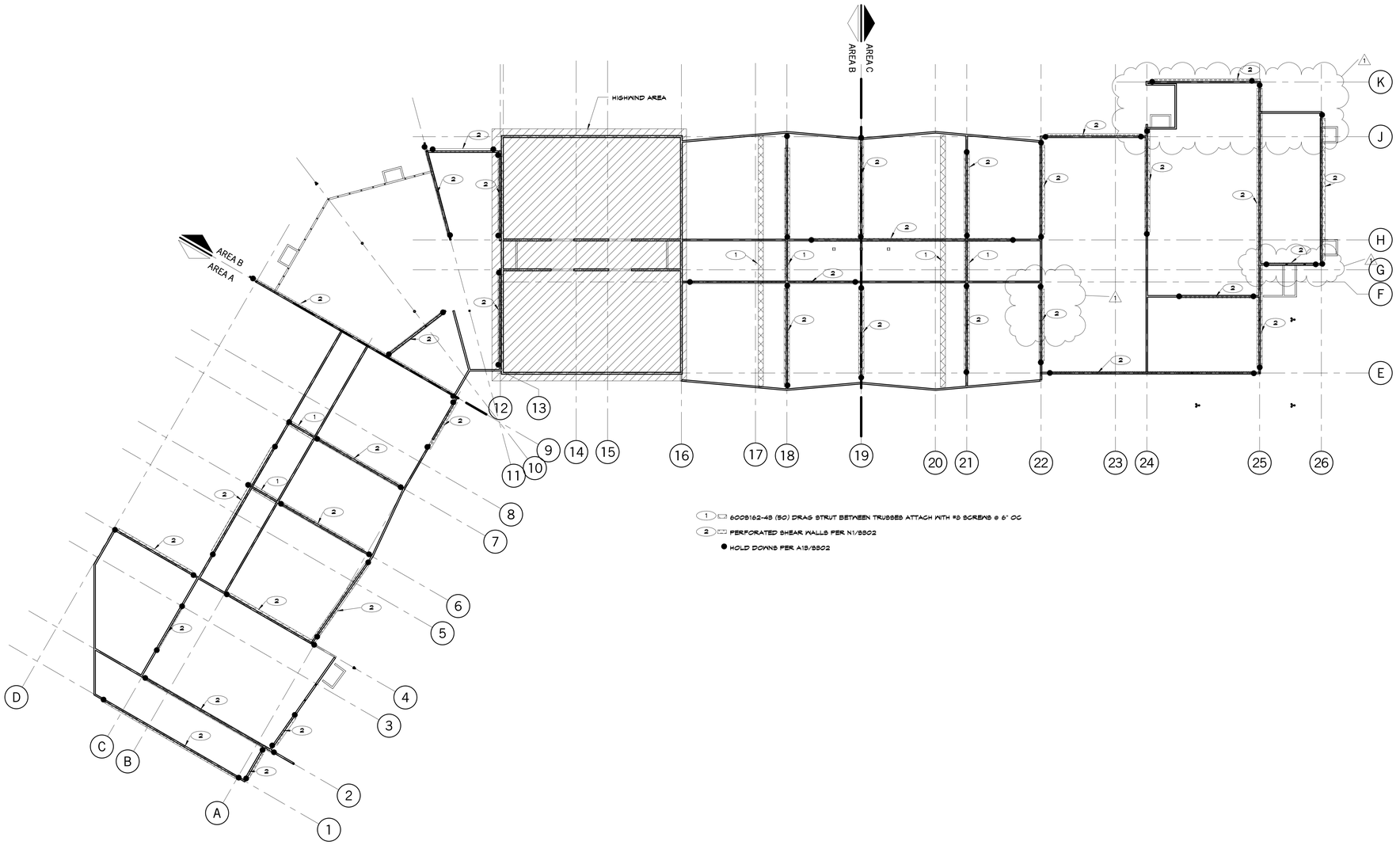

1 ▭ 600S162-43 (50) DRAG STRUT BETWEEN TRUSSES ATTACH WITH #8 SCREWS @ 6" OC

2 ▭ PERFORATED SHEAR WALLS PER N1/S502

● HOLD DOWNS PER A13/S502

SHEET KEYNOTE LEGEND

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#	Description	Date
1	Addendum 1	10.14.2016

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10/6/16

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JOB NO: 16054
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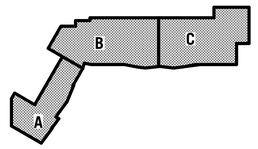
KEY PLAN



S002

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SHEAR WALL PLAN

A1 | Scale 1/16" = 1'-0" | Shear Wall Plan

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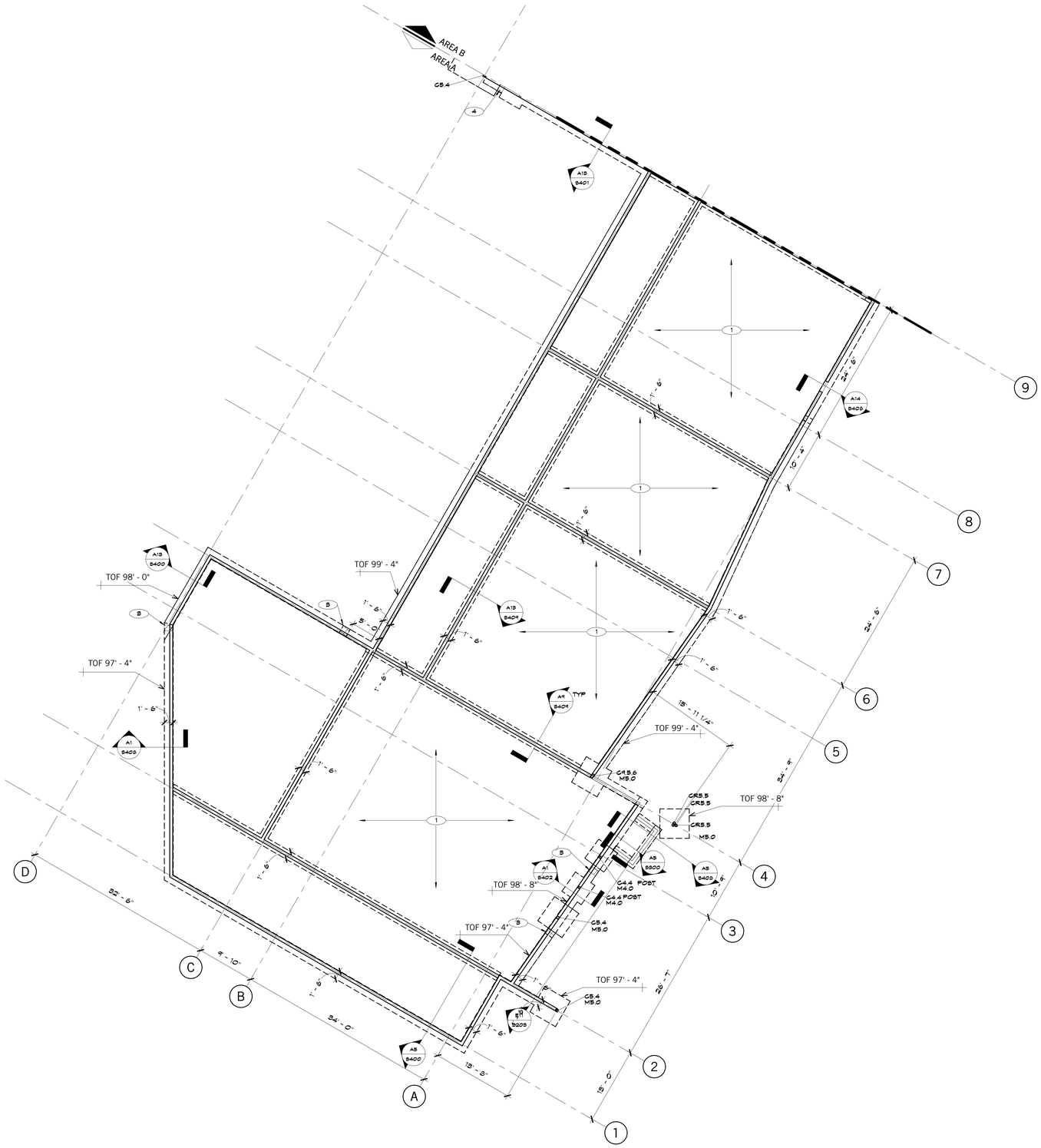

A1	Scale	Foundation Plan - Area A
	1/8" = 1'-0"	

NORTH

Structural Foundation Schedule

Type	Size	Reinforcement	
		Size	Placement
F3.0	3'-0 x 3'-0 x 1'-6"	3-#5	BOT EW
F5.0	5'-0 x 5'-0 x 1'-6"	5-#6	TOP & BOT EW
F6.0	6'-0 x 6'-0 x 1'-6"	6-#6	TOP & BOT EW
M4.0	4'-0 x 4'-0 x2'-8"	4-#5	TOP & BOT
M5.0	5'-0 x 5'-0 x 2'-8"	5-#6	TOP & BOT EW
M5.5	5'-6" x 5'-6" x 2'-8"	5-#6	TOP & BOT EW
M9.0	9'-0 x 5'-0 x 2'-8"	6-#6	TOP & BOT EW @ 12" OC

Structural Column Schedule

Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	3/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.6	HSS5x5x3/8	AR-2	1X12X12
C9.5.6	HSS9x5x3/8	AR-2	1X1'-0"X1'-4"
CR5.5	HSS8X8/16	AR-2	1x1'-3"x1'-3"
CR8.5	HSS8X8/16	AR-1	1X1'-7"X1'-7"

1

PLAN REFERENCE NOTES

① 4" CONCRETE SLAB ON GRADE WITH 10 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION =100'-0" UNO

② 8" CMU WALL. REINFORCE WITH 1 #6 VERTICAL AT 16" ON CENTER IN FULLY GROUTED CELLS

③ 3/4X10"X10" BASE PLATE WITH (4) 3/4"Φ HSA; BASE PLATE FLUSH WITH TOP OF SLAB

④ FOOTING STEP PER J1/S300

FOUNDATION NOTES

Ⓐ TOP OF FOOTING ELEVATION = 99'-4" UNO

Ⓑ PROVIDE SLAB BLOCK OUT AT CONTRACTORS OPTION PER A1/S300

Ⓒ GRIDS INDICATE CENTER LINE OF METAL STUD

Ⓓ ALL GRADE BEAMS ARE CENTERED ON INTERIOR CMU WALLS UNO

KEY PLAN

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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

STATE OF MISSOURI
JOHN E. FUNK
NUMBER
E-2000173299
REGISTERED PROFESSIONAL ENGINEER
John E. Funk
9/30/16

John E. Funk
E-2000173299

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S100

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FOUNDATION PLAN

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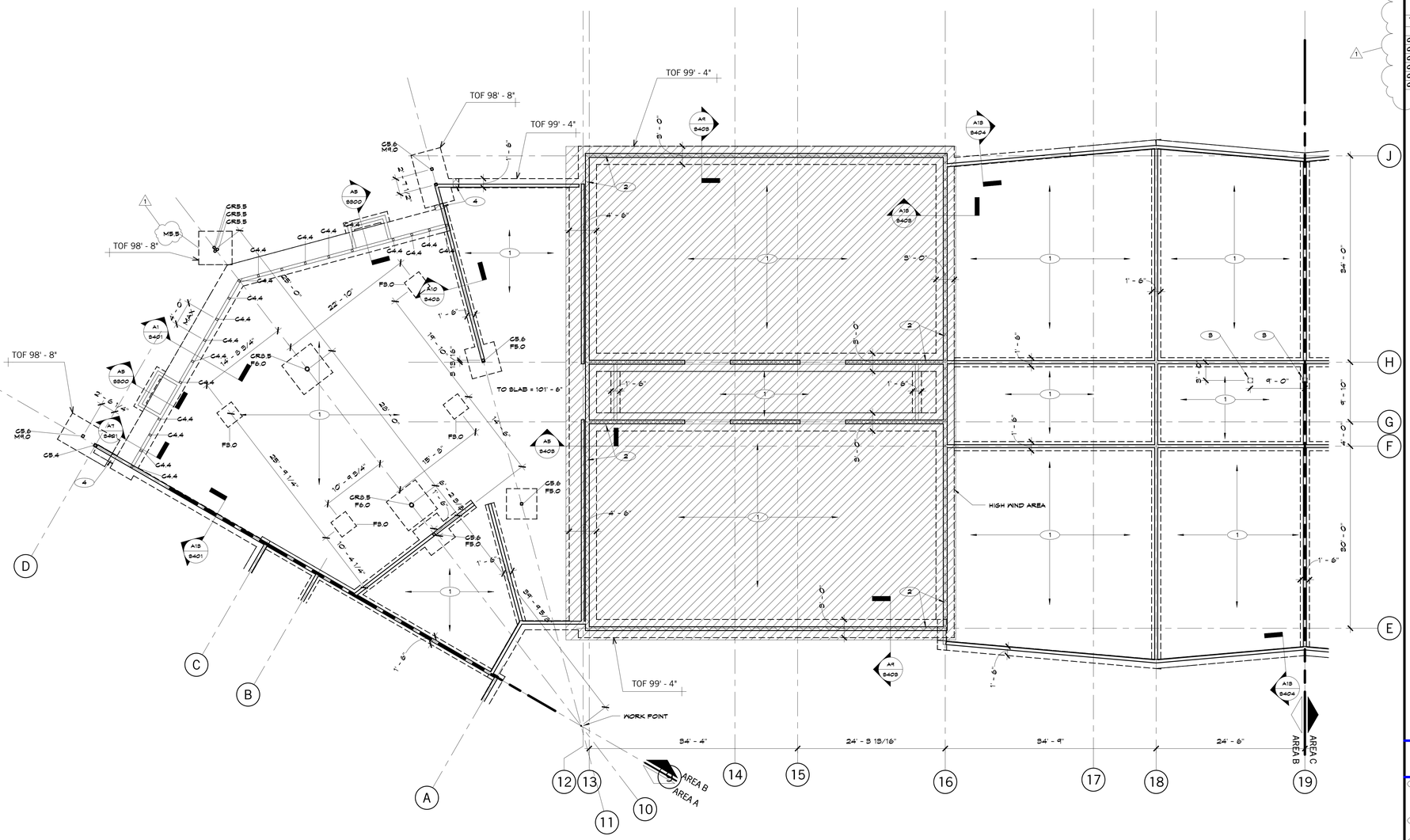


Structural Foundation Schedule

Type	Size	Reinforcement Size	Reinforcement Placement
F5.0	5'-0 x 5'-0 x 1'-6"	5-#5	BOT EW
F5.0	5'-0 x 5'-0 x 1'-6"	5-#6	TOP & BOT EW
F6.0	6'-0 x 6'-0 x 1'-6"	6-#6	TOP & BOT EW
M4.0	4'-0 x 4'-0 x2'-6"	4-#5	TOP & BOT
M5.0	5'-0 x 5'-0 x 2'-6"	5-#6	TOP & BOT EW
M5.5	5'-6" x 5'-6" x 2'-6"	5-#6	TOP & BOT EW
M9.0	9'-0 x 5'-0 x 2'-6"	6-#6	TOP & BOT EW @ 12" OC

Structural Column Schedule

Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	8/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.6	HSS5x5x5/8	AR-2	1X12X12
C5.6	HSS6x5x5/8	AR-2	1X1'-0"X1'-4"
CR5.5	HSS8X8/16	AR-2	1x1'-8"x1'-8"
CR5.5	HSS8X8/16	AR-1	1X1'-1"X1'-1"

PLAN REFERENCE NOTES

1. 4" CONCRETE SLAB ON GRADE WITH 10 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION =100'-0" UNO
2. 8" CMU WALL. REINFORCE WITH 1 #6 VERTICAL AT 16" ON CENTER IN FULLY GROUTED CELLS
3. 8/4X10"X10" BASE PLATE WITH (4) 8/4"ø HSA; BASE PLATE FLUSH WITH TOP OF SLAB
4. FOOTING STEP PER J1/S300

FOUNDATION NOTES

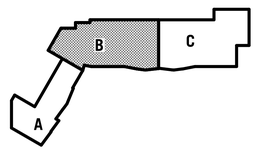
A. TOP OF FOOTING ELEVATION = 99'-4" UNO

B. PROVIDE SLAB BLOCK OUT AT CONTRACTORS OPTION PER A1/S300

C. GRIDS INDICATE CENTER LINE OF METAL STUD

D. ALL GRADE BEAMS ARE CENTERED ON INTERIOR CMU WALLS UNO

KEY PLAN



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Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

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JOHN E. FUNK
NUMBER E-2000173299
REGISTERED PROFESSIONAL ENGINEER
10/14/16

John E. Funk
E-2000173299

JOB NO: 16054
DRAWN BY: SAH
CHECKED BY: DBH
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S101

OF

FOUNDATION PLAN

A1 | Scale 1/8" = 1'-0" | Foundation Plan - Area B

NORTH

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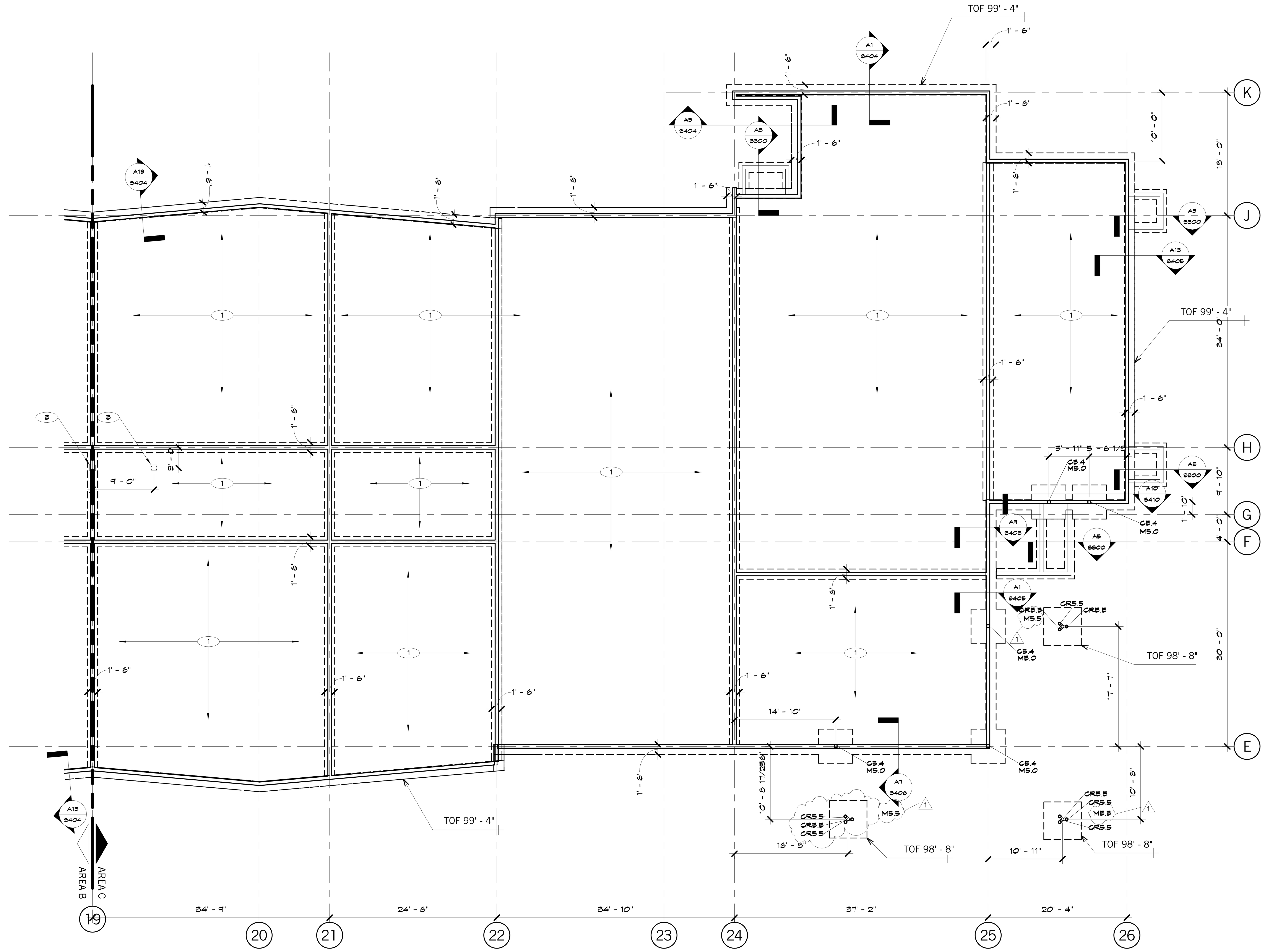
SHEET KEYNOTE LEGEND

Structural Column Schedule			
Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	3/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.6	HSS5x5x3/8	AR-2	1X12X12
C9.5.6	HSS9x5x3/8	AR-2	1X1'-0"X1'-4"
CR5.5	HSS8X8/16	AR-2	1x1'-3"x1'-3"
CR8.5	HSS8X8/16	AR-1	1X1'-7"X1'-7"

Structural Foundation Schedule			
		Reinforcement	
Type	Size	Size	Placement
F3.0	3'-0 x 3'-0 x 1'-6"	3-#5	BOT EW
F5.0	5'-0 x 5'-0 x 1'-6"	5-#6	TOP & BOT EW
F6.0	6'-0 x 6'-0 x 1'-6"	6-#6	TOP & BOT EW
M4.0	4'-0 x 4'-0 x2'-8"	4-#5	TOP & BOT
M5.0	5'-0 x 5'-0 x 2'-8"	5-#6	TOP & BOT EW
M5.5	5'-6" x 5'-6" x 2'-8"	5-#6	TOP & BOT EW
M9.0	9'-0 x 5'-0 x 2'-8"	6-#6	TOP & BOT EW @ 12" OC



A1 | Scale 1/8" = 1'-0" | Foundation PLan - Area C

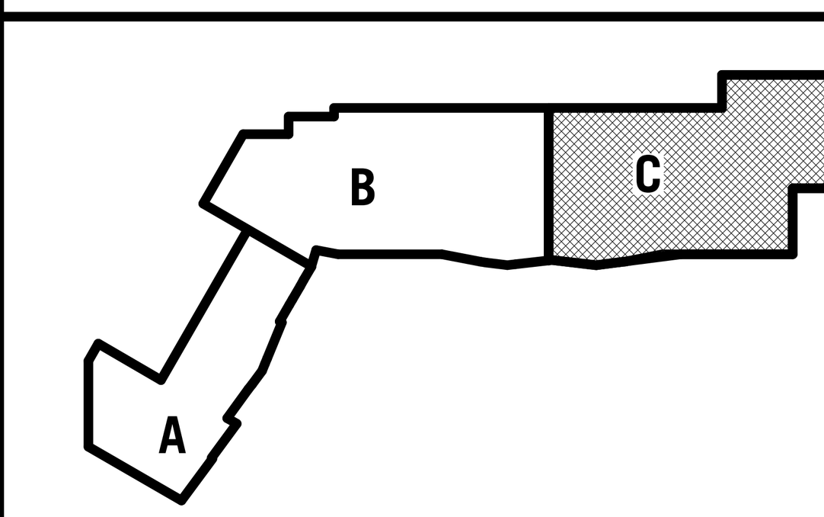
PLAN REFERENCE NOTES

1. 4" CONCRETE SLAB ON GRADE WITH 10 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION =100'-0" UNO
2. 8" CMU WALL. REINFORCE WITH 1 #6 VERTICAL AT 16" ON CENTER IN FULLY GROUTED CELLS
3. 3/4X10"X10" BASE PLATE WITH (4) 3/4"Φ HSA; BASE PLATE FLUSH WITH TOP OF SLAB
4. FOOTING STEP PER J1/S300

FOUNDATION NOTES

A. TOP OF FOOTING ELEVATION = 99'-4" UNO
B. PROVIDE SLAB BLOCK OUT AT CONTRACTORS OPTION PER A1/S300
C. GRIDS INDICATE CENTER LINE OF METAL STUD
D. ALL GRADE BEAMS ARE CENTERED ON INTERIOR CMU WALLS UNO

KEY PLAN



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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

STATE OF MISSOURI — JOHN E. FUNK — NUMBER E-2000173299 — REGISTERED PROFESSIONAL ENGINEER — 9/30/16

John E. Funk
E-2000173299

JOB NO: 16054
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S102

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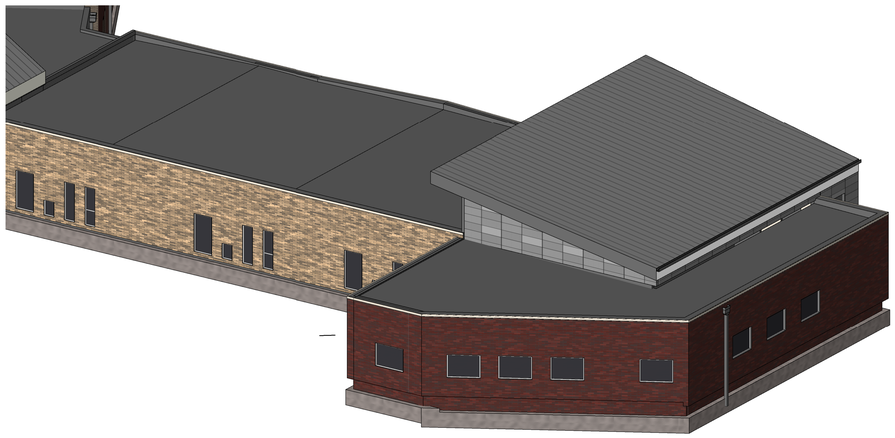
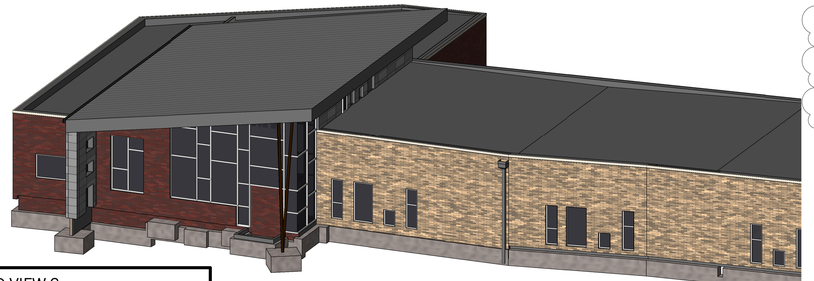
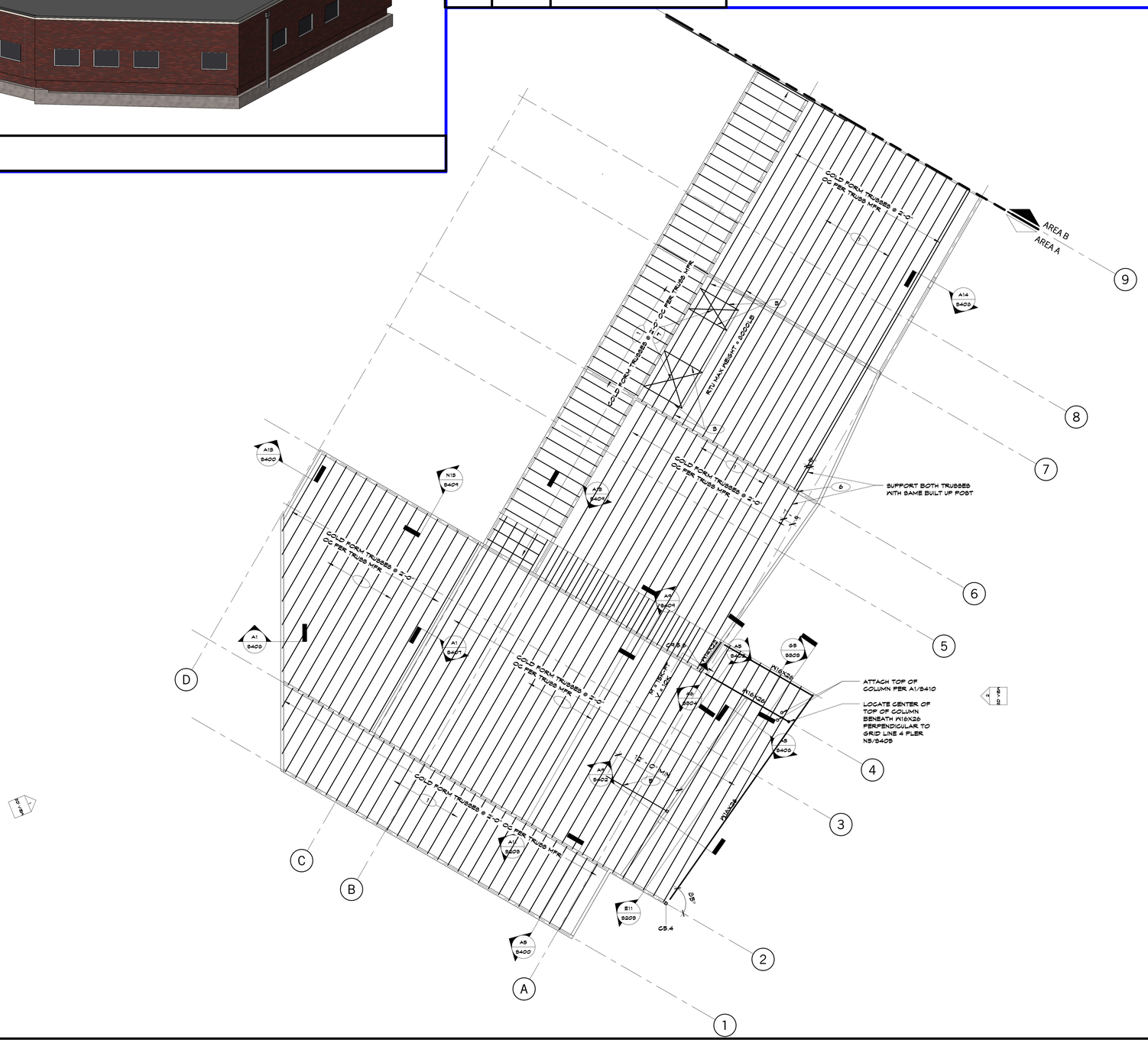
FOUNDATION PLAN



M1 Scale — 3D VIEW 1



P9 Scale — 3D VIEW 2



A1 Scale 1/8" = 1'-0" — Roof Framing - Area A

NORTH

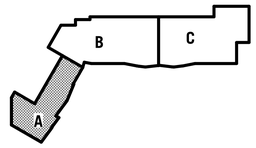
Structural Column Schedule

Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	B/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.5	HSS5x5x5/8	AR-2	1X12X12
C4.5.5	HSS4x5x5/8	AR-2	1X1'-0"X1'-4"
C5.5.5	HSS5X5/16	AR-2	1X1'-5"X1'-5"
C6.5.5	HSS6X5/16	AR-1	1X1'-7"X1'-7"

PLAN REFERENCE NOTES

1. METAL DECK 1 1/2" DEEP 22 GAGE WIDE RIB PAINTED METAL ROOF DECK. ATTACH TO SUPPORTING COLD FORMED METAL STUDS OR TRUSSES IN 36/4 PATTERN WITH #12 TEK SCREWS AT SUPPORTS WITH 1 SIDELAP FASTENER PER SPAN TO TRANSFER 400plf OF MINIMUM HORIZONTAL DIAPHRAGM SHEAR
2. GIRDER POST (B) 600S162-68 (50)
3. GIRDER TRUSS PER TRUSS MANUFACTURER
4. 12" HOLLOW CORE SLAB WITH 4" COMPOSITE TOPPING SLAB REINFORCED WITH #4 AT 12" ON CENTER EACH WAY
5. ATTACH 600S162-54 (50) BLOCKING BETWEEN ROOF SUPPORTING MEMBERS TO METAL DECK WITH #10 SCREWS AT 18" OC
6. (2) 600S250-68 POST
7. COORDINATE ROOF TRUSS FRAMING WITH MECHANICAL CONTRACTOR AT ROOF TOP UNIT PENETRATION LOCATIONS
8. SWING LOCATION. REFERENCE ARCH FOR LOCATION. REFERENCE N9/S305 FOR TRUSS ATTACHMENT
9. ADDITIONAL LOAD FROM SUPORTED PANELS. REFERENCE ARCH FOR LOCATION. COORDINATE WITH CONTRACTOR FOR WEIGHT OF PANELS AND ATTACHMENT LOCATIONS

KEY PLAN



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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

STATE OF MISSOURI — JOHN E. FUNK — NUMBER E-2000173299 — REGISTERED PROFESSIONAL ENGINEER — 10/14/16

John E. Funk
E-2000173299

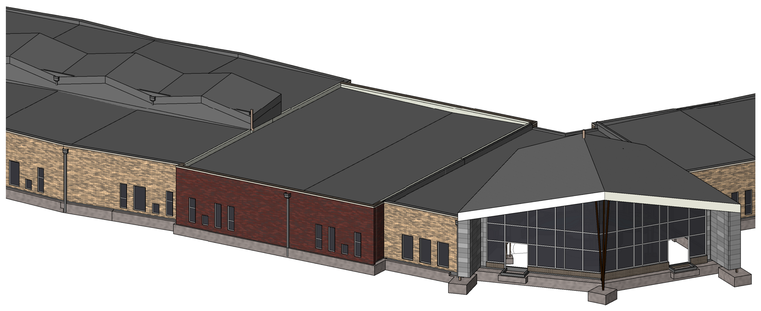
JOB NO: 16054
DRAWN BY: SAH
CHECKED BY: DBH
DATE: 09.30.2016

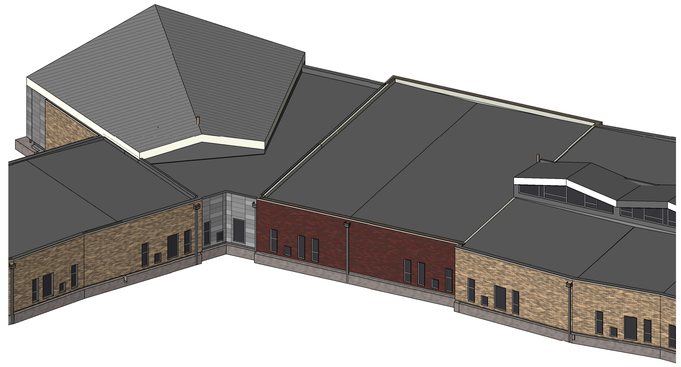
S200

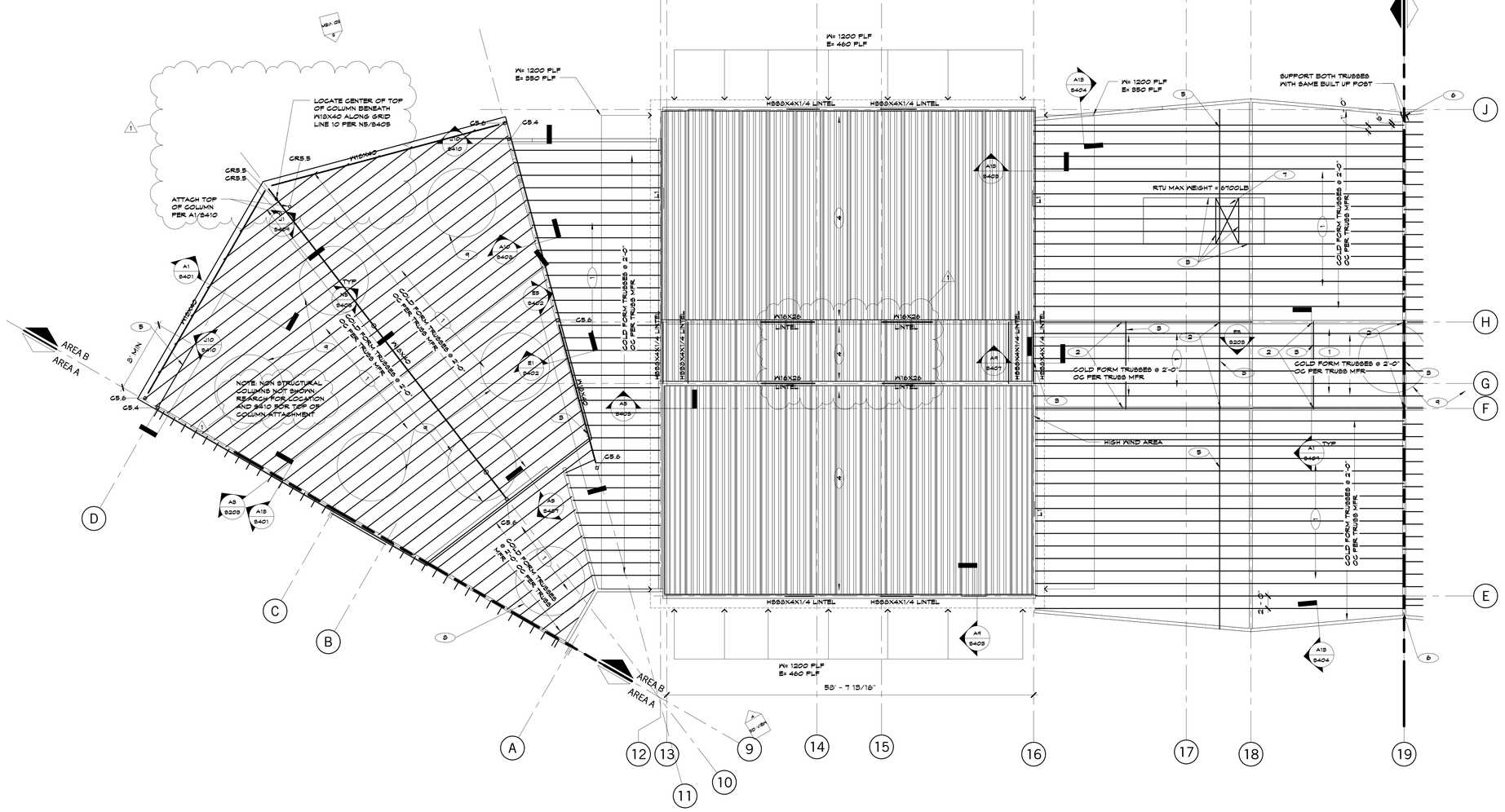
____ OF ____

FRAMING PLAN

10/12/2016 2:22:33 PM







N1 Scale 3D VIEW 3

N9 Scale 3D VIEW 4

Structural Column Schedule

Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	3/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.6	HSS5x5x3/8	AR-2	1X12X12
C9.5.6	HSS9x5x3/8	AR-2	1X1'-0"X1'-4"
CR5.5	HSS8X8/16	AR-2	1x1'-3"x1'-3"
CR8.5	HSS8X8/16	AR-1	1X1'-7"X1'-7"

A1 Scale 1/8" = 1'-0" Roof Framing - Area B

NORTH

PLAN REFERENCE NOTES

1. METAL DECK 1 1/2" DEEP 22 GAGE WIDE RIB PAINTED METAL ROOF DECK. ATTACH TO SUPPORTING COLD FORMED METAL STUDS OR TRUSSES IN 36/4 PATTERN WITH #12 TEK SCREWS AT SUPPORTS WITH 1 SIDELAP FASTENER PER SPAN TO TRANSFER 400plf OF MINIMUM HORIZONTAL DIAPHRAGM SHEAR
2. GIRDER POST (3) 600S168-68 (50)
3. GIRDER TRUSS PER TRUSS MANUFACTURER
4. 12" HOLLOW CORE SLAB WITH 4" COMPOSITE TOPPING SLAB REINFORCED WITH #4 AT 12" ON CENTER EACH WAY
5. ATTACH 600S162-54 (50) BLOCKING BETWEEN ROOF SUPPORTING MEMBERS TO METAL DECK WITH #10 SCREWS AT 18" OC
6. (2) 600S250-68 POST
7. COORDINATE ROOF TRUSS FRAMING WITH MECHANICAL CONTRACTOR AT ROOF TOP UNIT PENETRATION LOCATIONS
8. SWING LOCATION. REFERENCE ARCH FOR LOCATION, REFERENCE N9/S303 FOR TRUSS ATTACHMENT
9. ADDITIONAL LOAD FROM SUPORTED PANELS; REFERENCE ARCH FOR LOCATION; COORDINATE WITH CONTRACTOR FOR WEIGHT OF PANELS AND ATTACHMENT LOCATIONS

KEY PLAN

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Structure # 2006031333

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Joplin Early Childhood Center
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1	Addendum 1	10.14.2016

JOHN E. FUNK
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E-2000173299
John E. Funk
9/30/16

John E. Funk
E-2000173299

JOB NO: 16054
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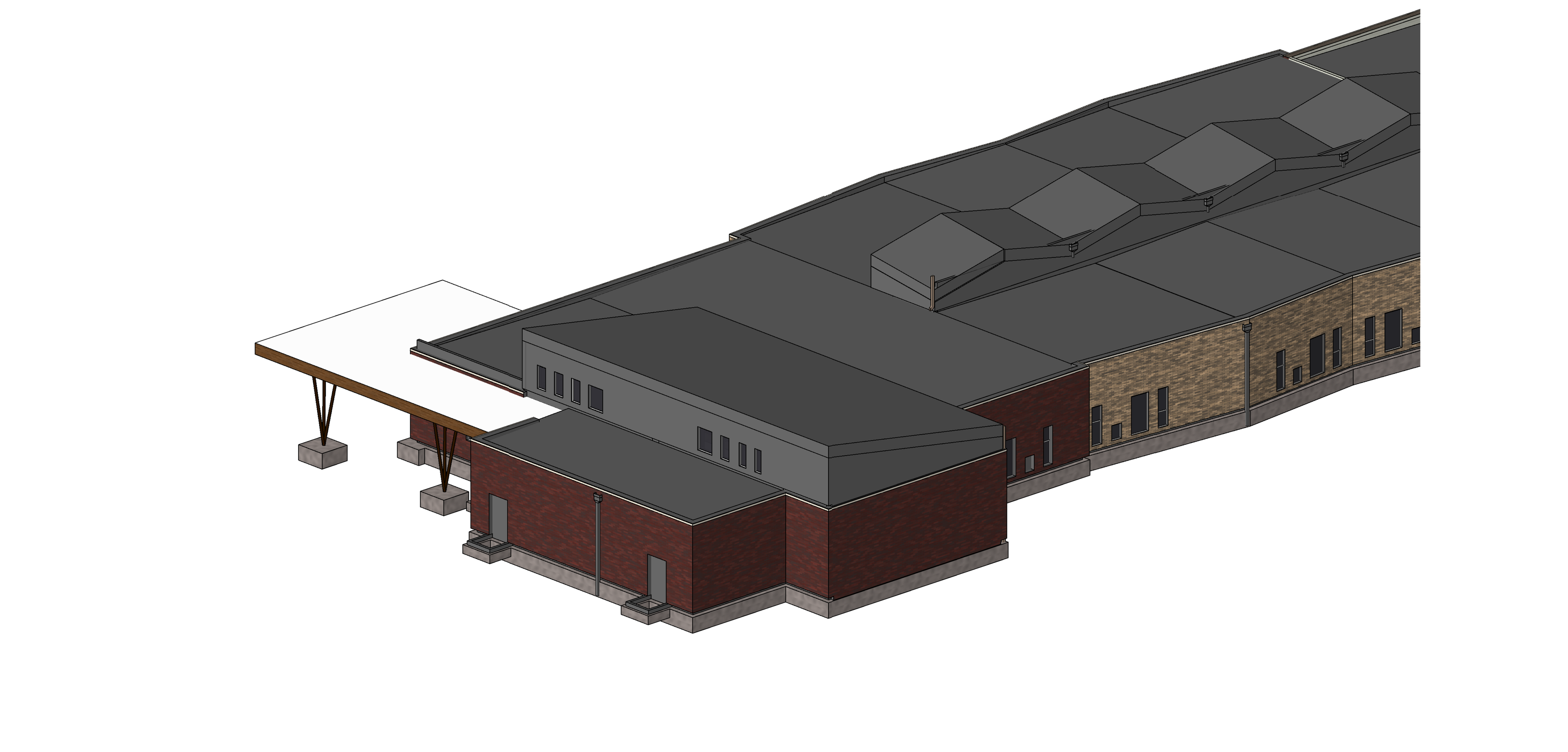
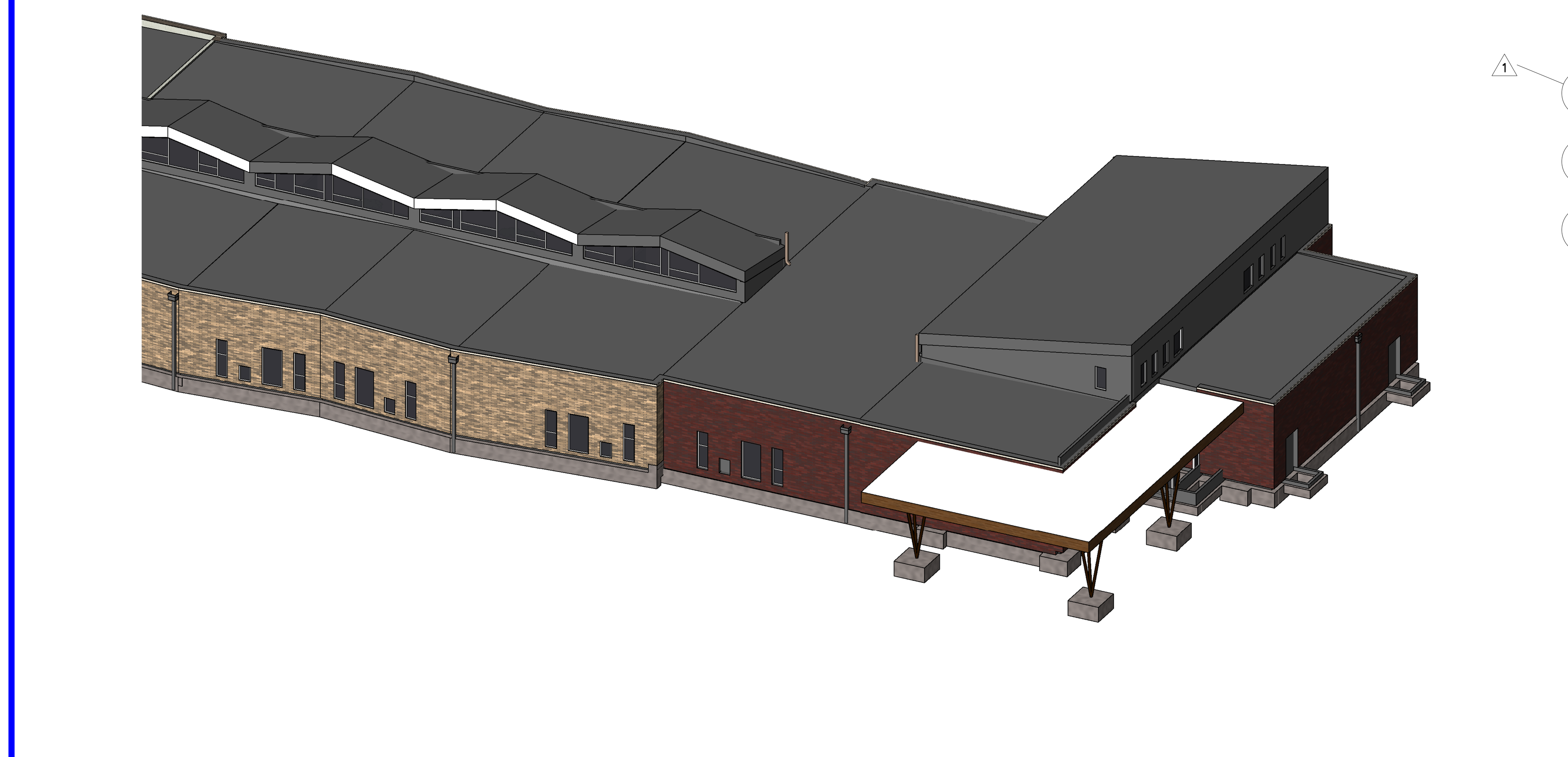
S201

_____ OF _____

FRAMING PLAN



M1 Scale — 3D VIEW 5

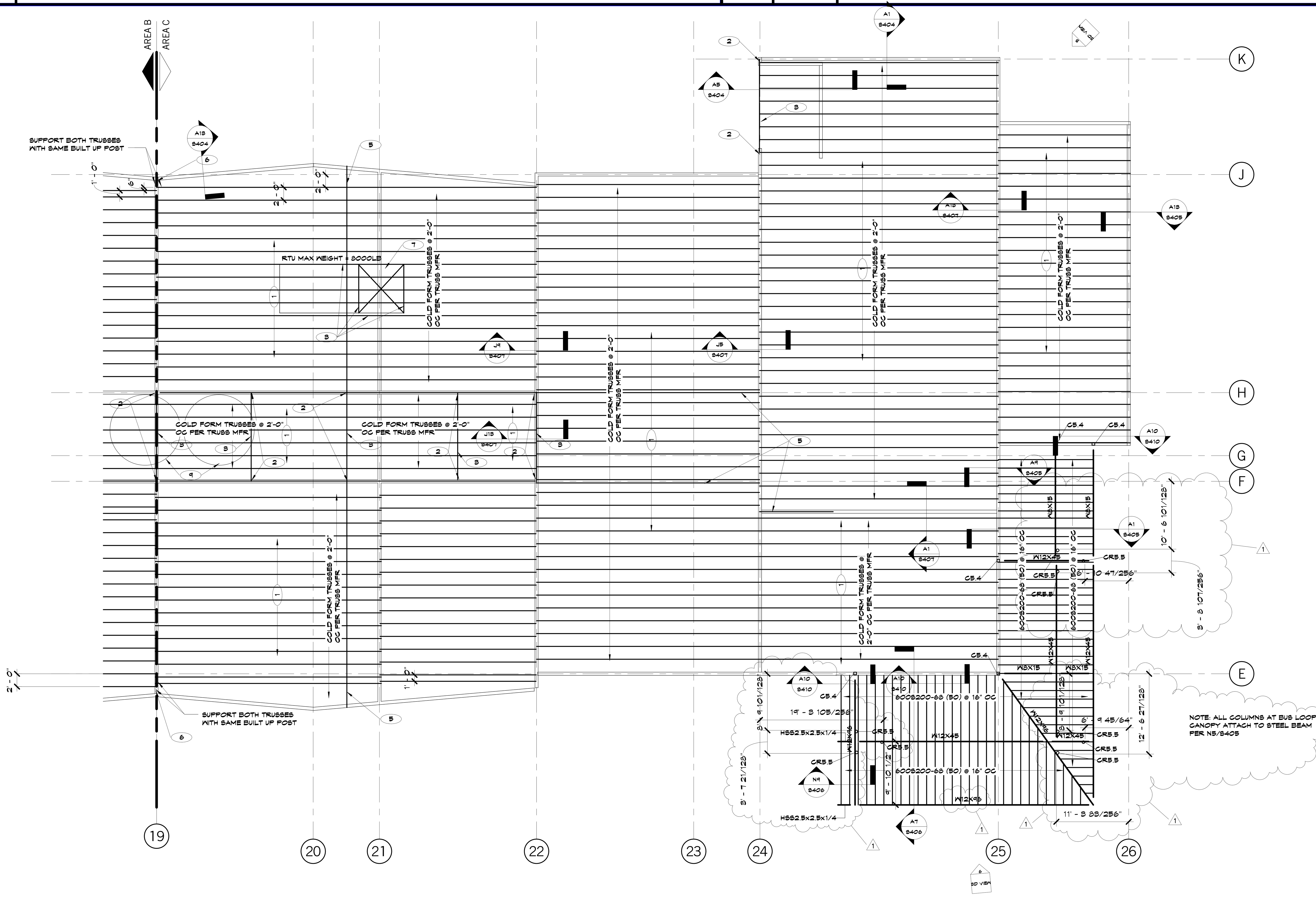


M9 Scale — 3D VIEW 6

SHEET KEYNOTE LEGEND

Structural Column Schedule

Type	Size	Anchor Rods	Base Plate
C4.4	HSS4x4x1/4	AR-2	3/4X11X11
C5.4	HSS5x5x1/4	AR-2	1X12X12
C5.6	HSS5x5x3/8	AR-2	1X12X12
C9.5.6	HSS9x5x3/8	AR-2	1X1'-0"X1'-4"
CR5.5	HSS8X8/16	AR-2	1x1'-3"x1'-3"
CR8.5	HSS8X8/16	AR-1	1X1'-7"X1'-7"

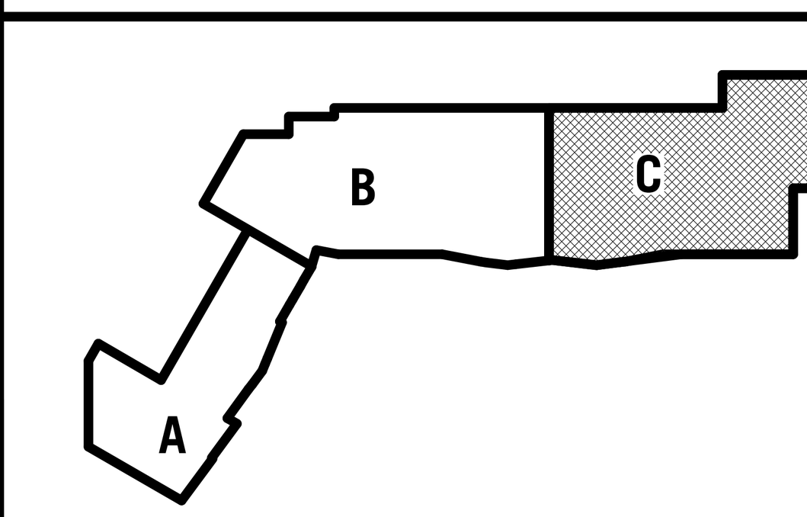


A1 Scale 1/8" = 1'-0" — Roof Framing - Area C

PLAN REFERENCE NOTES

1. METAL DECK 1 1/2" DEEP 22 GAGE WIDE RIB PAINTED METAL ROOF DECK. ATTACH TO SUPPORTING COLD FORMED METAL STUDS OR TRUSSES IN 36/4 PATTERN WITH #12 TEK SCREWS AT SUPPORTS WITH 1 SIDELAP FASTENER PER SPAN TO TRANSFER 400plf OF MINIMUM HORIZONTAL DIAPHRAGM SHEAR
2. GIRDER POST (3) 600S168-68 (50)
3. GIRDER TRUSS PER TRUSS MANUFACTURER
4. 12" HOLLOW CORE SLAB WITH 4" COMPOSITE TOPPING SLAB REINFORCED WITH #4 AT 12" ON CENTER EACH WAY
5. ATTACH 600S162-54 (50) BLOCKING BETWEEN ROOF SUPPORTING MEMBERS TO METAL DECK WITH #10 SCREWS AT 18" OC
6. (2) 600S250-68 POST
7. COORDINATE ROOF TRUSS FRAMING WITH MECHANICAL CONTRACTOR AT ROOF TOP UNIT PENETRATION LOCATIONS
8. SWING LOCATION. REFERENCE ARCH FOR LOCATION, REFERENCE N9/S303 FOR TRUSS ATTACHMENT
9. ADDITIONAL LOAD FROM SUPORTED PANELS; REFERENCE ARCH FOR LOCATION; COORDINATE WITH CONTRACTOR FOR WEIGHT OF PANELS AND ATTACHMENT LOCATIONS

KEY PLAN



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Joplin Early Childhood Center
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John E. Funk
E-2000173299

JOB NO: 16054
DRAWN BY: SAH
CHECKED BY: DBH
DATE: 09.30.2016

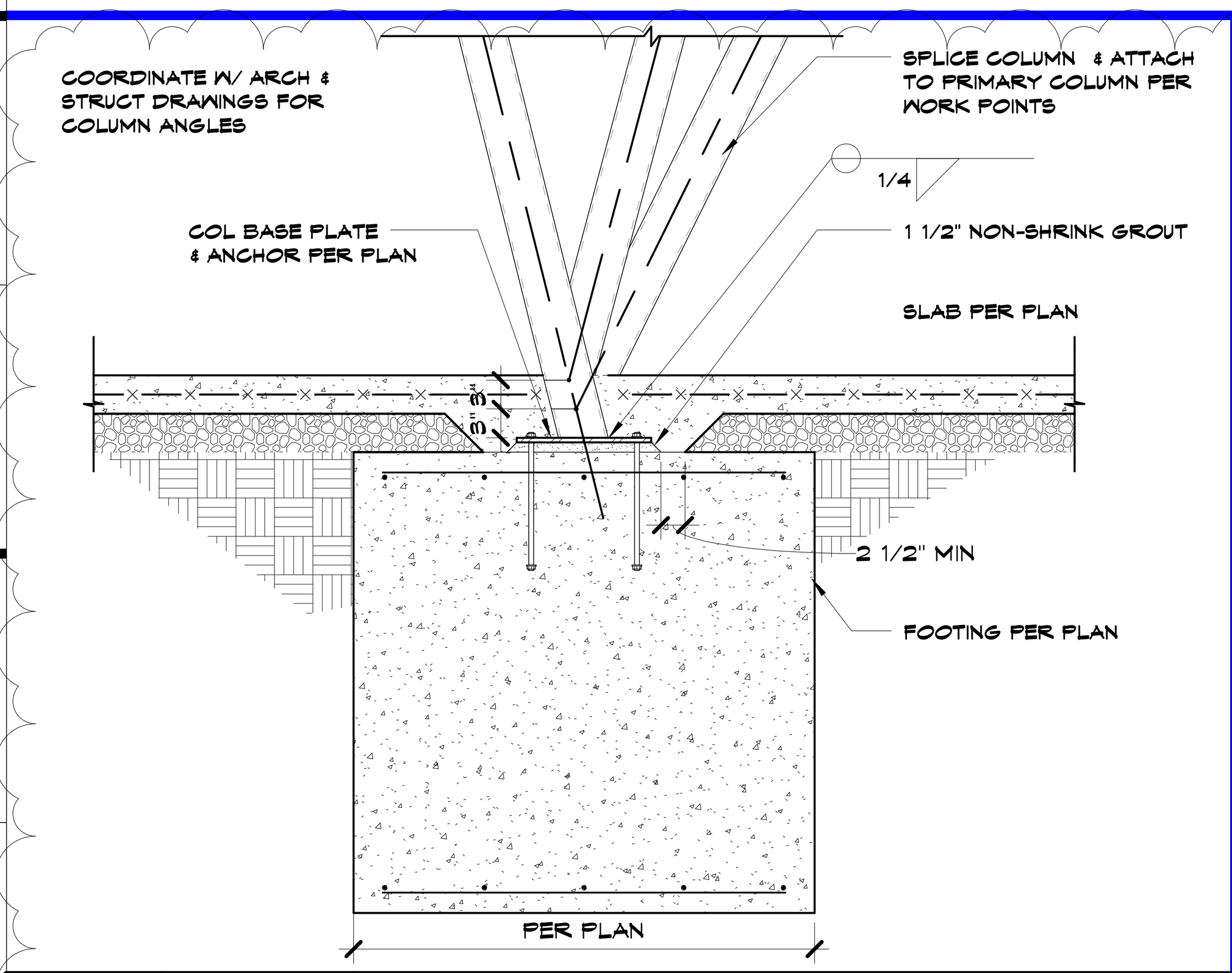
S202

_____ OF _____

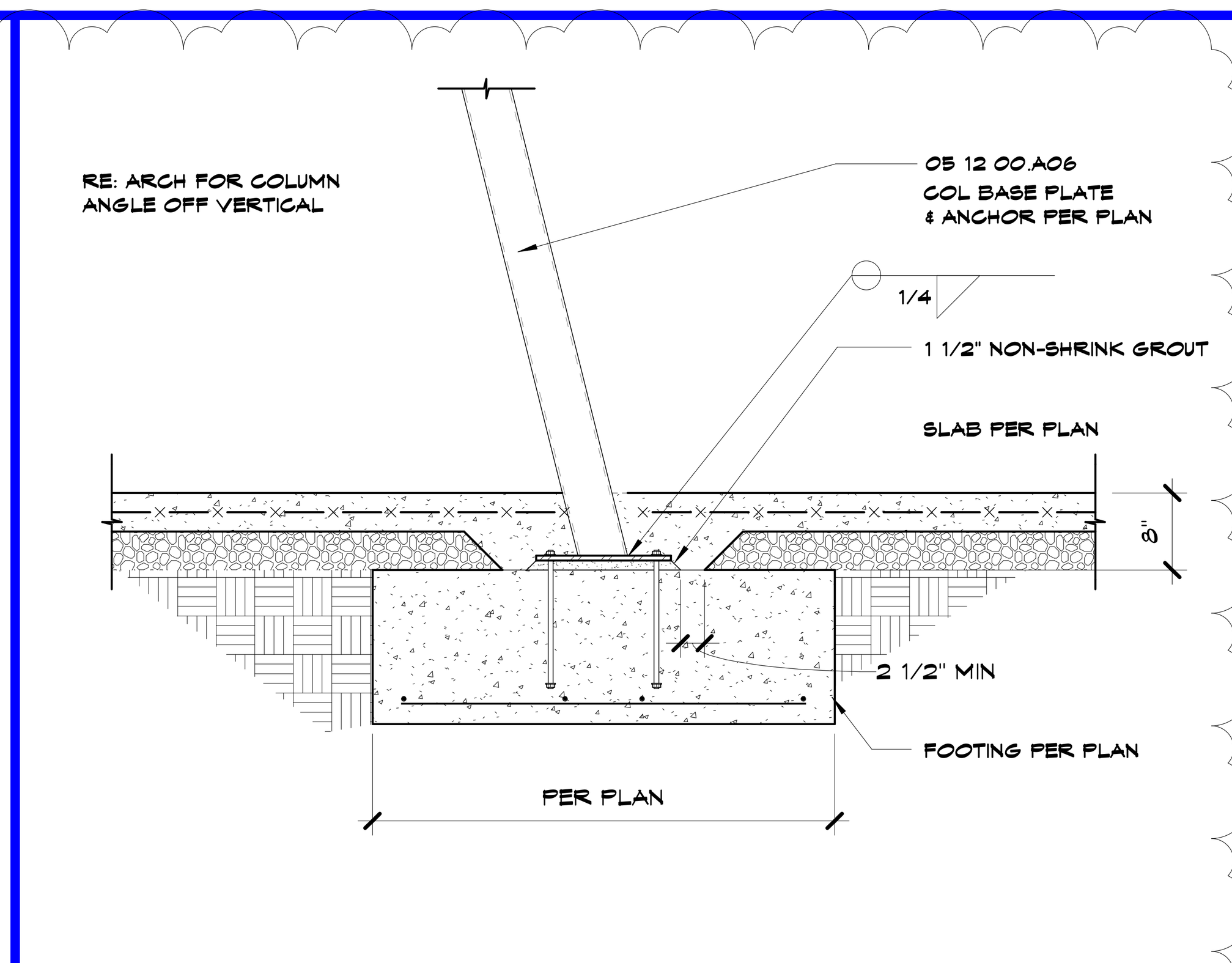
FRAMING PLAN

SHEET KEYNOTE LEGEND

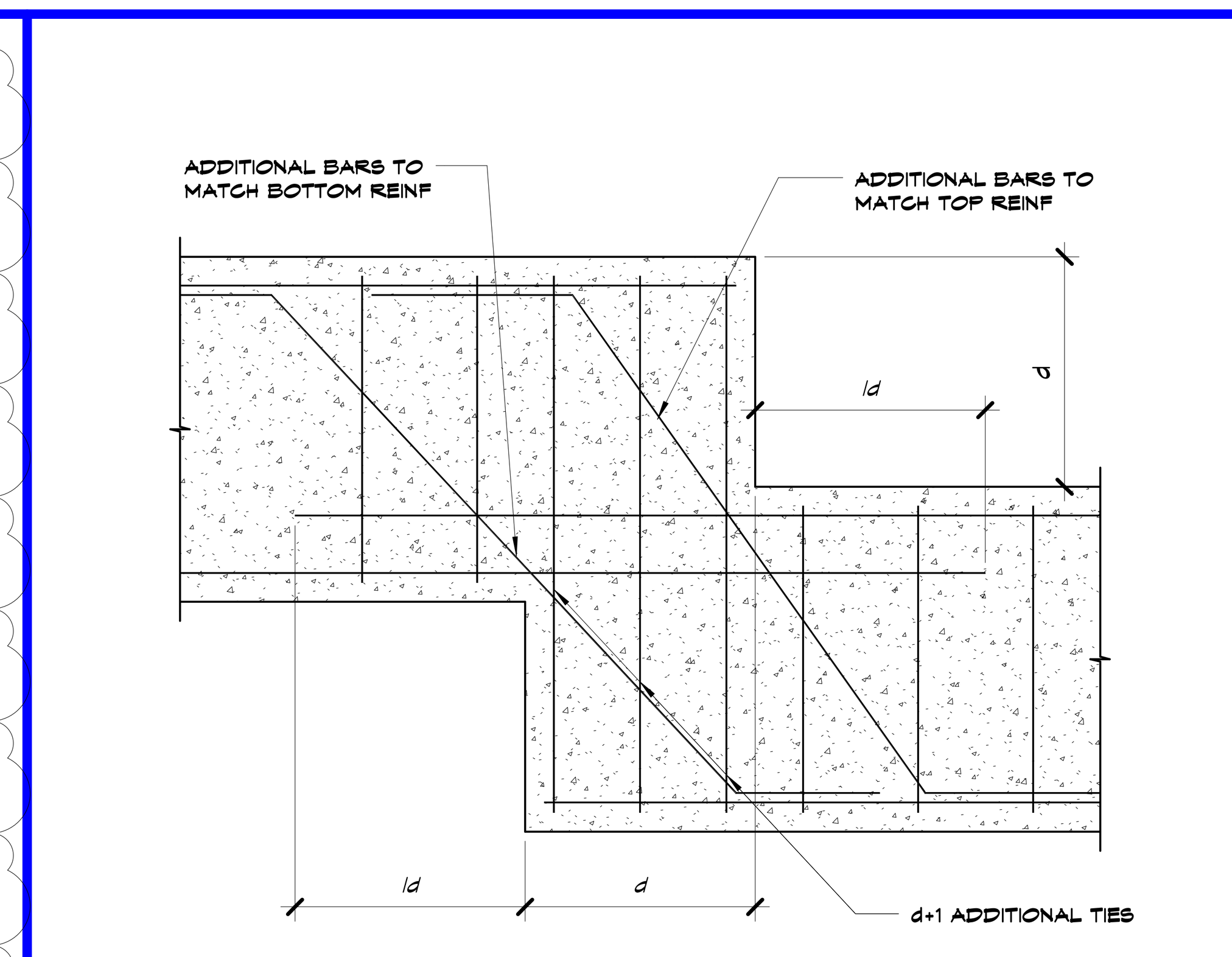
03 30 00.A01 CAST-IN-PLACE CONCRETE
03 30 00.A06 REINFORCING BARS
04 20 00.A01 CONCRETE MASONRY UNITS
05 12 00.A06 COLD-FORMED HSS
07 21 00.A01 EXTRUDED POLYSTYRENE BOARD INSULATION



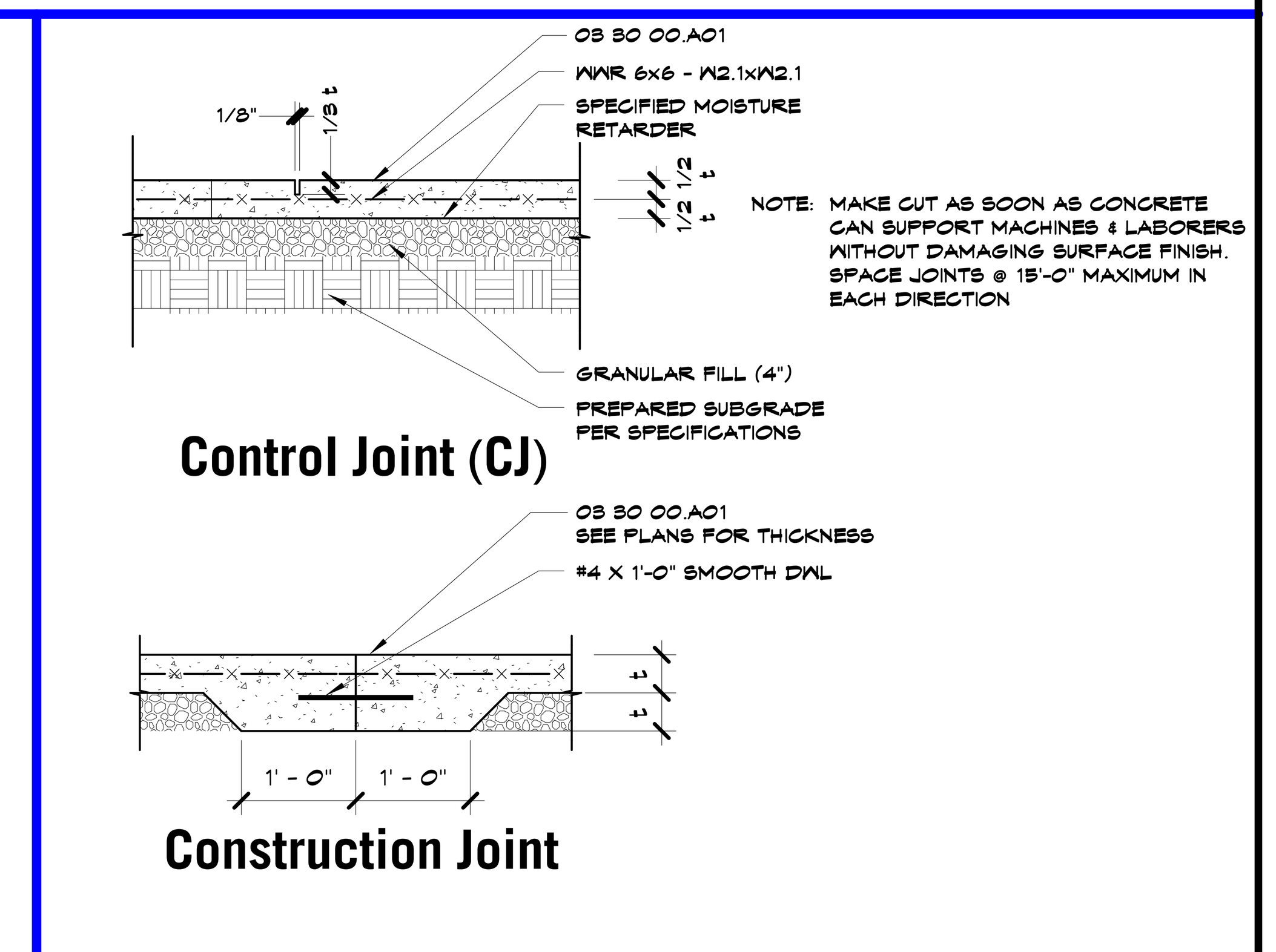
J1 | Scale 3/4" = 1'-0" | Typical Exterior Slanted Column Base Detail



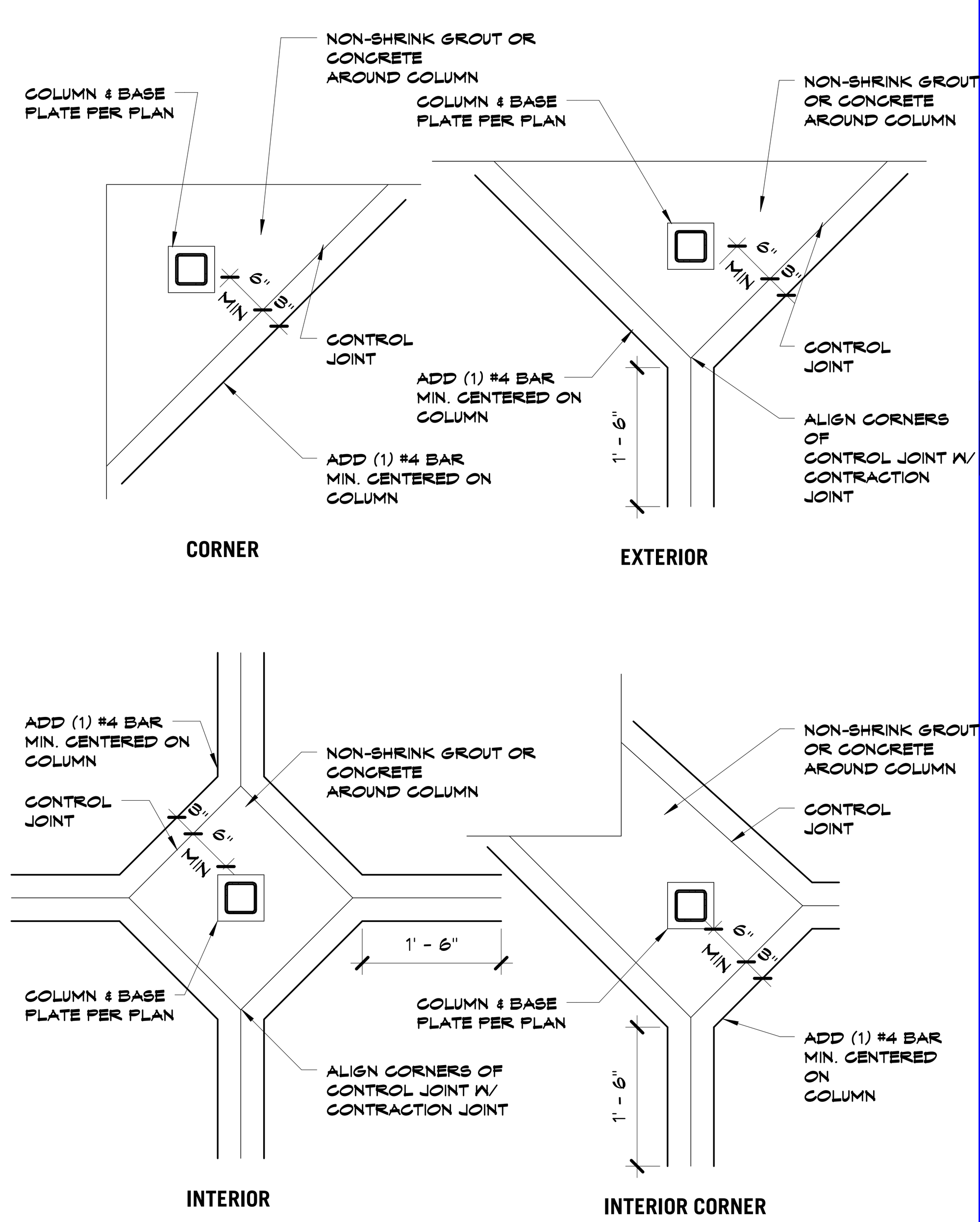
J5 | Scale 3/4" = 1'-0" | Typical Interior Slanted Column Base Detail



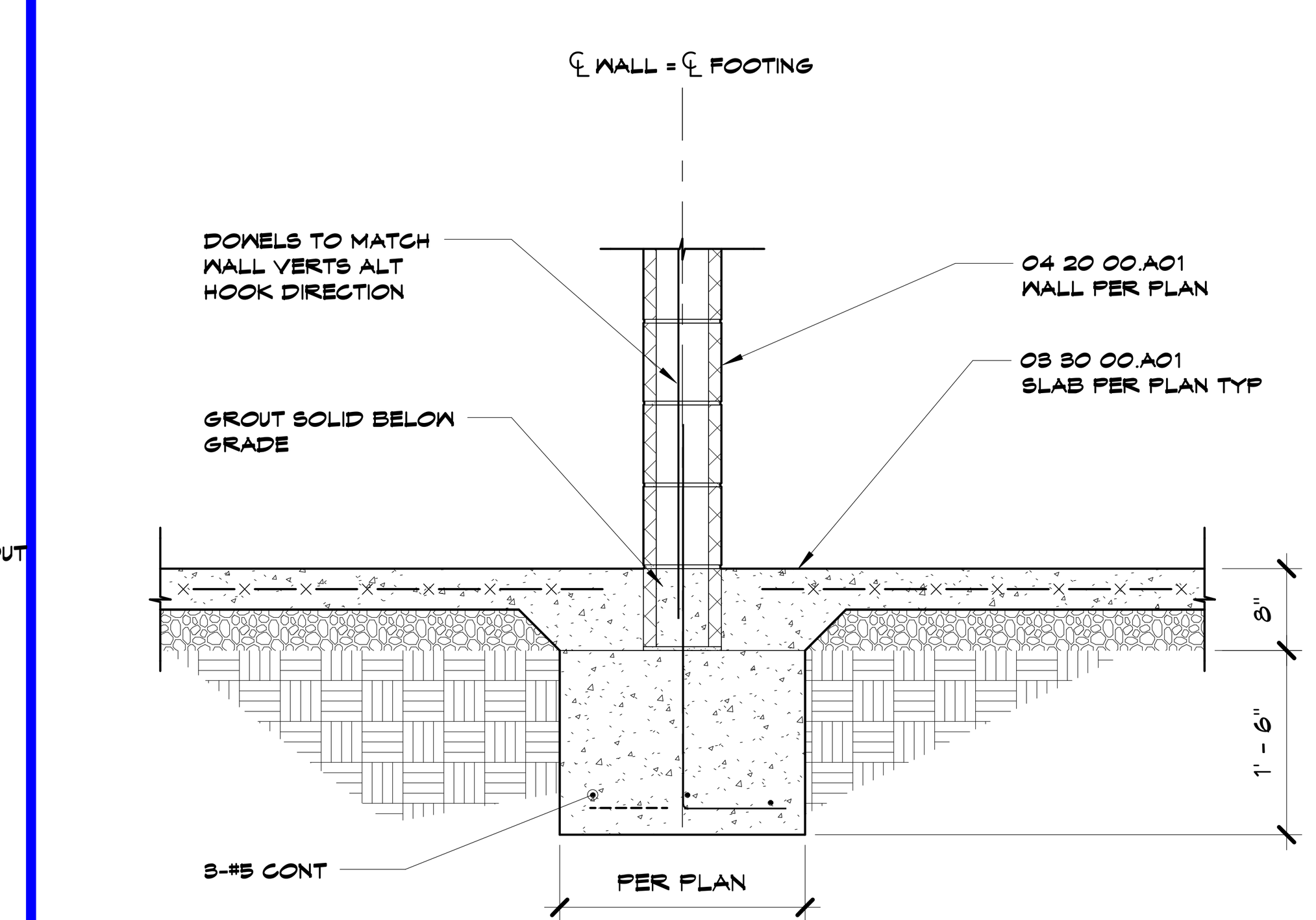
J9 | Scale 3/4" = 1'-0" | Typical Footing Step - Typical Detail



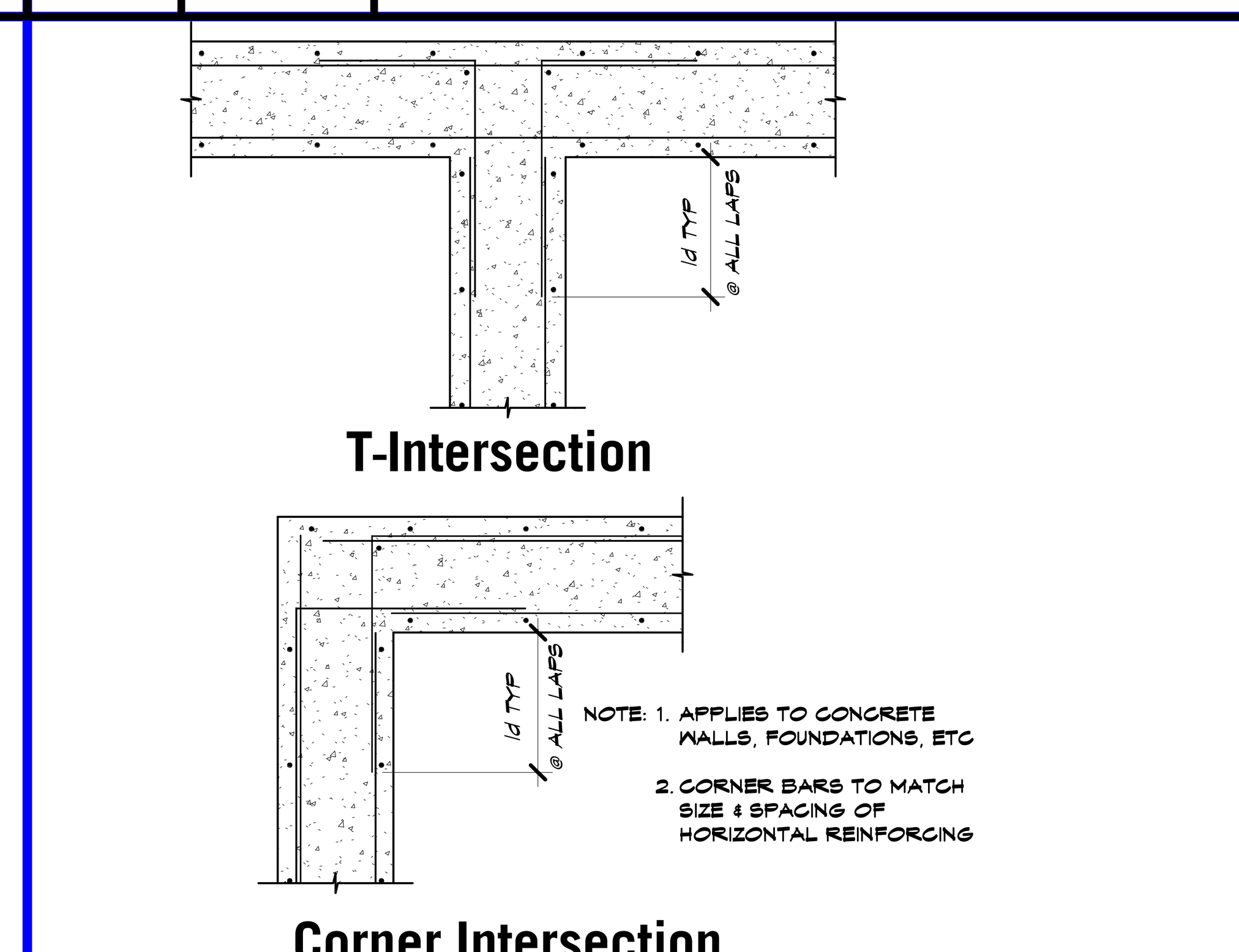
J13 | Scale 3/4" = 1'-0" | Typical Slab on Grade Details



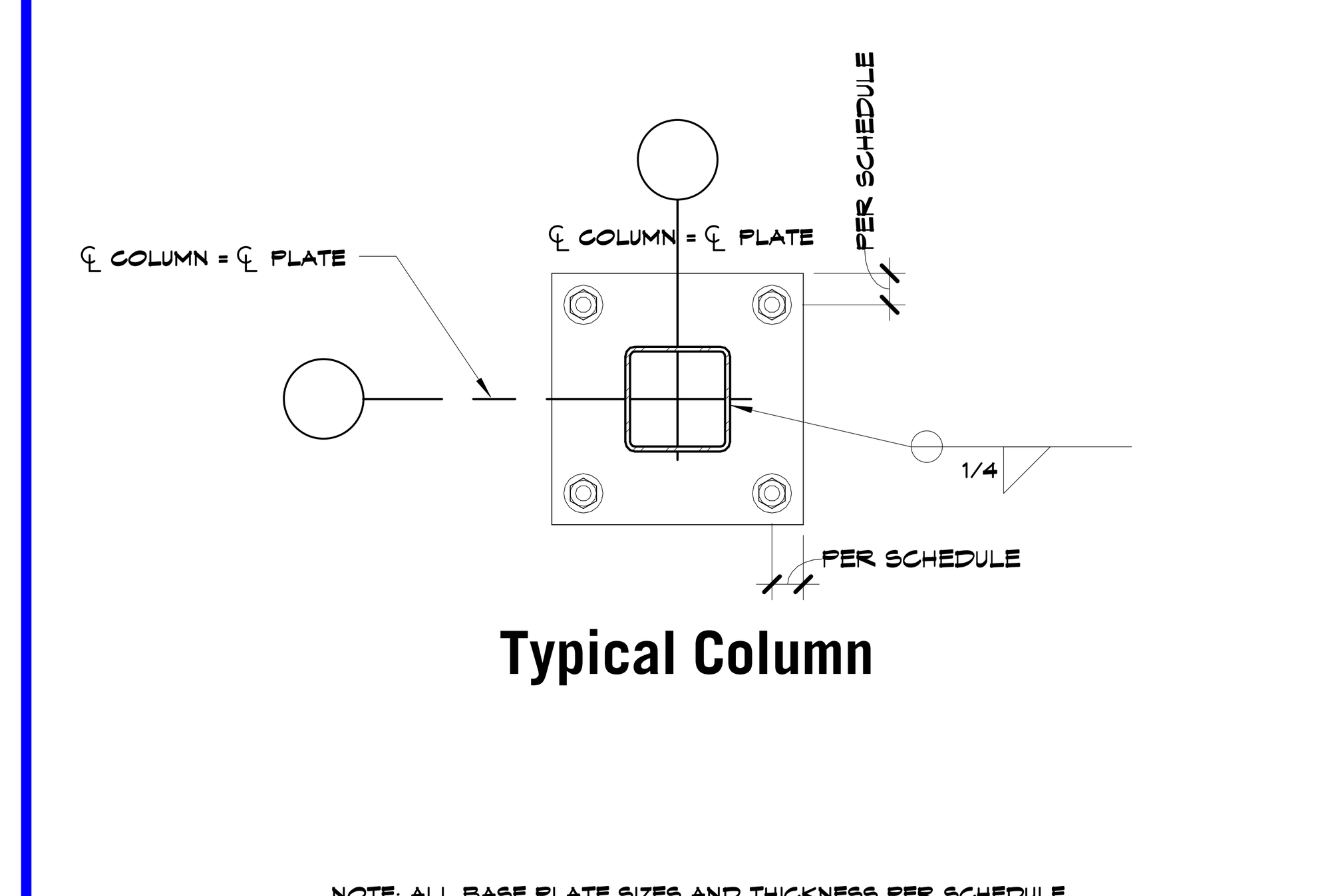
A1 | Scale 3/4" = 1'-0" | Typical Slab Blockout Details



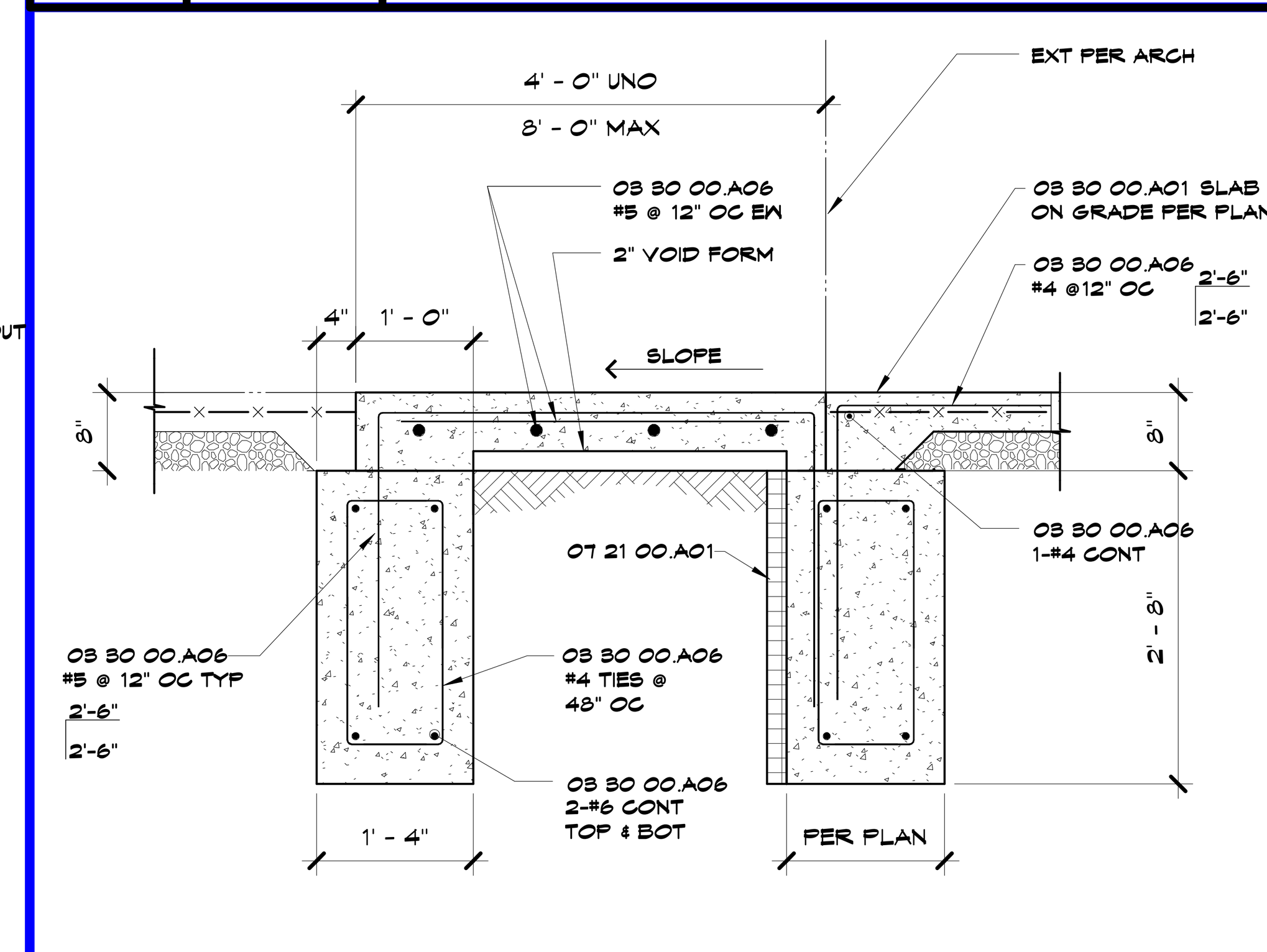
E5 | Scale 3/4" = 1'-0" | Typical Interior 8" CMU Wall Foundation



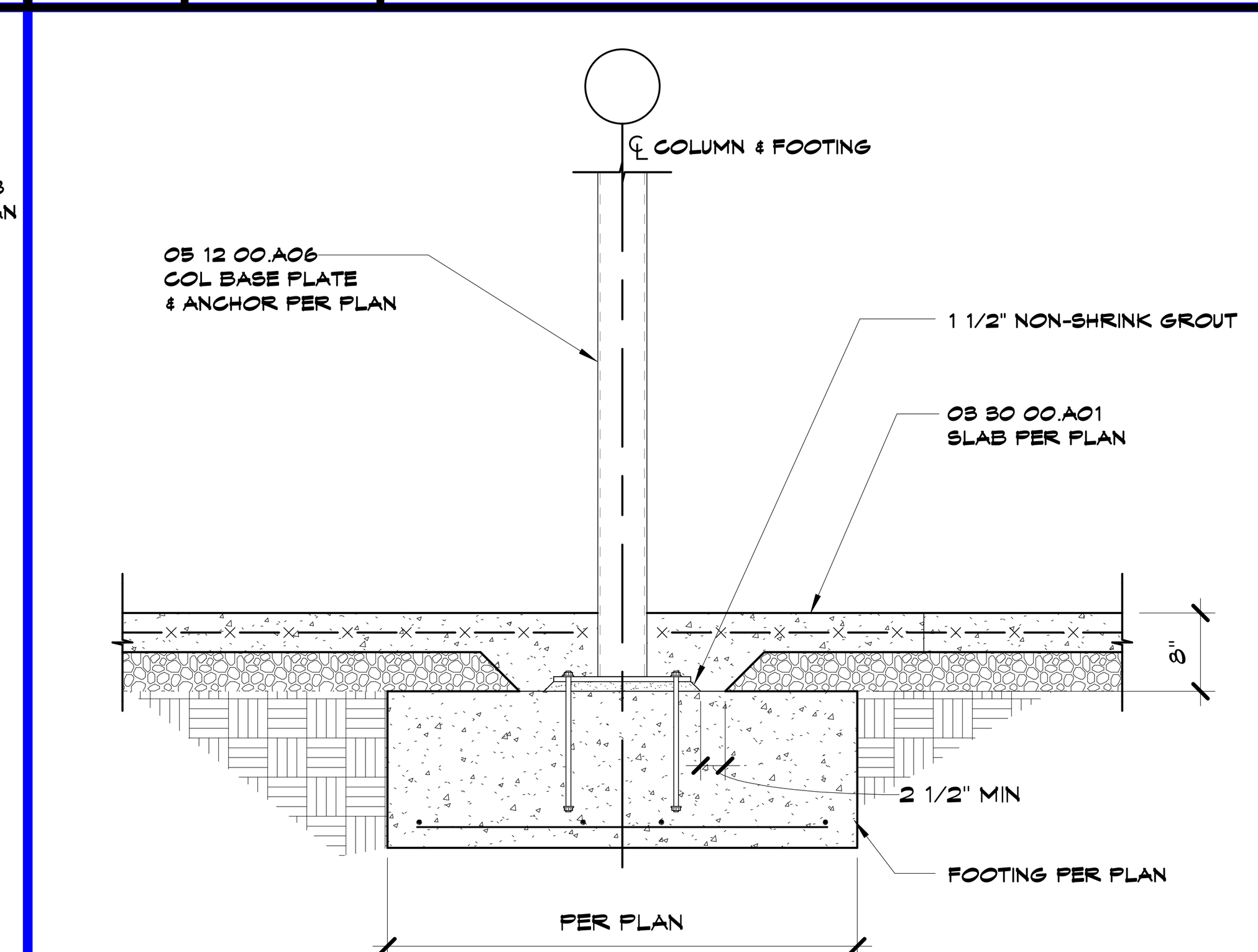
E9 | Scale 3/4" = 1'-0" | Typical Reinforcing Intersection



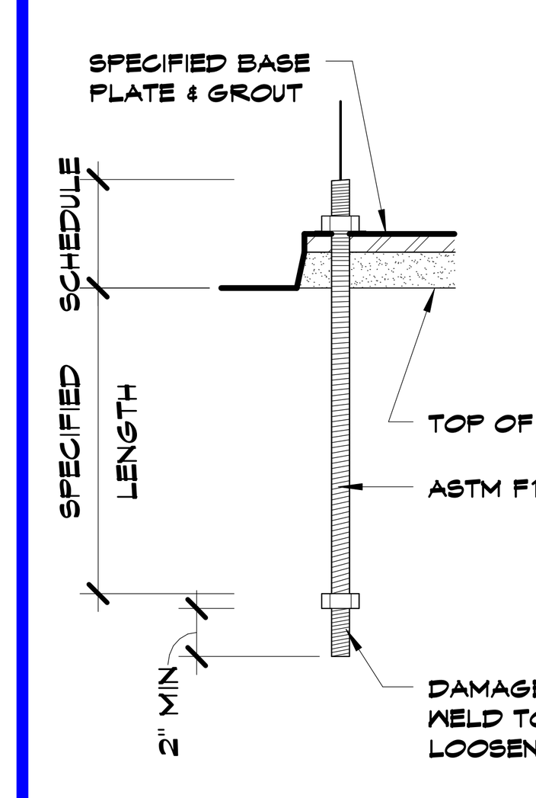
E13 | Scale 1 1/2" = 1'-0" | Typical Base Plate Layout



A5 | Scale 3/4" = 1'-0" | Typical Concrete Stoop



A9 | Scale 3/4" = 1'-0" | Typical Interior Steel Column Footing



TYPE	SIZE	LENGTH	AR PROJECTION	BASE PLT EDGE DIST
AR-1	3/4"	12"	4"	1 1/2"
AR-2	1"	16"	6"	2 1/2"

A13 | Scale 1 1/2" = 1'-0" | Typical Anchor Rod

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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	Addendum 1	10.14.2016

John E. Funk
E-2000173299

JOB NO: 16054
DRAWN BY: SAH
CHECKED BY: DBH
DATE: 09.30.2016

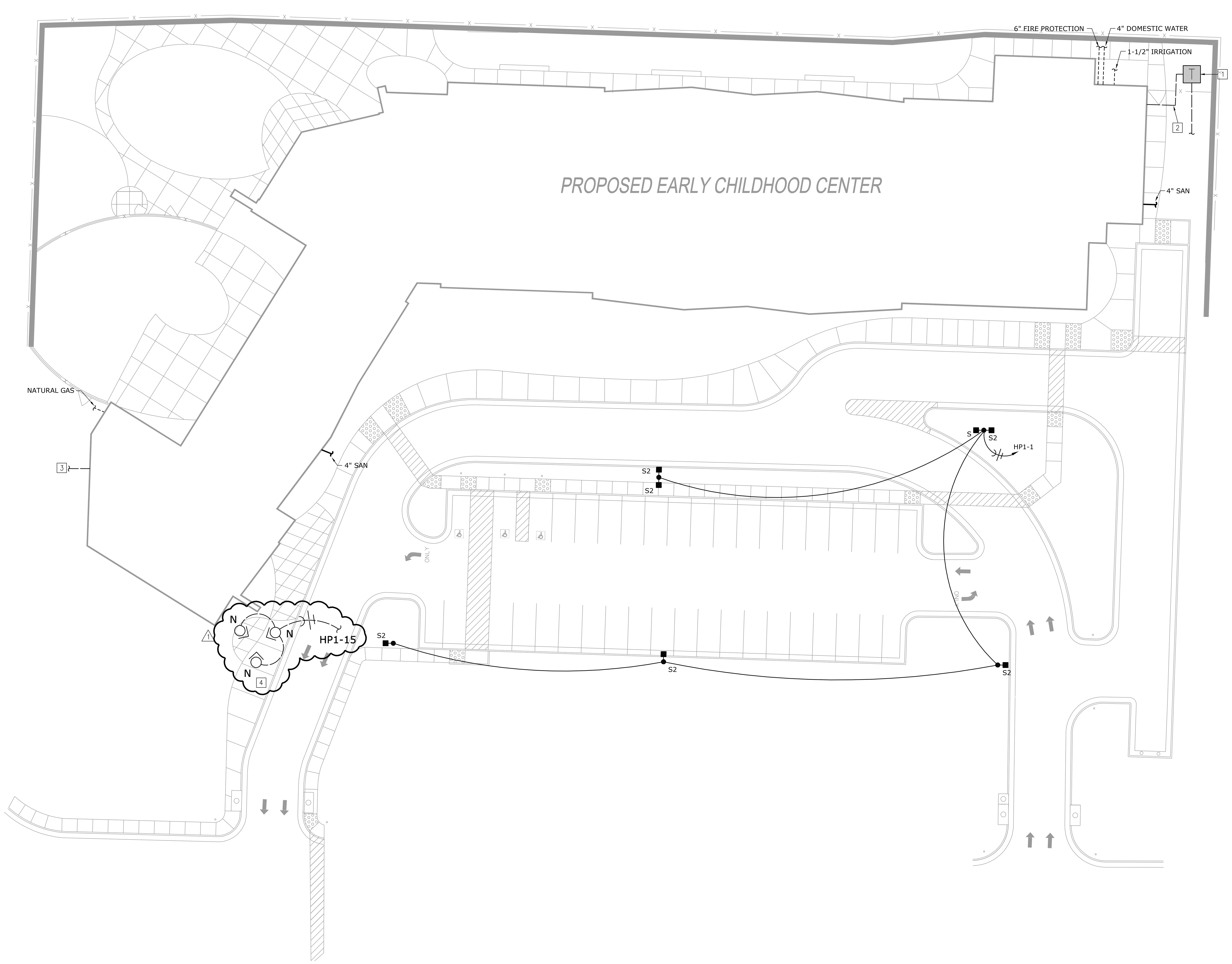
S300

___ OF ___

FOUNDATION SECTIONS

ELECTRICAL PLAN NOTES:

1. PROPOSED UTILITY COMPANY TRANSFORMER LOCATION. INSTALL CONCRETE PAD PER UTILITY COMPANY STANDARDS. COORDINATE EXACT PRIMARY ELECTRICAL FEEDER REQUIREMENTS AND RESPONSIBILITIES WITH UTILITY COMPANY.
2. SECONDARY ELECTRICAL UTILITY FEEDER. REFER TO ONE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR QUANTITY AND SIZE.
3. PROVIDE (2) EMPTY 4" CONDUITS WITH PULL STRING FROM MDF CLOSET OUT TO DATA SERVICE POINT. COORDINATE EXACT REQUIREMENTS WITH UTILITY.
4. SPACE FIXTURES AROUND FLAGPOLE AND AIM TO EVENLY ILLUMINATE FLAG. (Revision 1)



scale: 1" = 20'-0"

SITE PLAN - MECHANICAL AND ELECTRICAL

SCALE:1"=20'-0"

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100% BID DOCUMENTS

Joplin Early Childhood Center

Joplin Schools

REVISIONS:

1	ADD #2	10-24-16

JOB NO:	16054
DRAWN BY:	S&B
CHECKED BY:	KTM
DATE:	09.30.2016

smith&boucher ENGINEERS
25501 west valley parkway, suite 200 olathe, ks 66061
p.913.345.2127 / 888.299.7540 f.913.345.0617
project number 1617200

ME201

_____ OF _____

PROJECT NAME: JOPLIN EARLY CHILDHOOD CENTER
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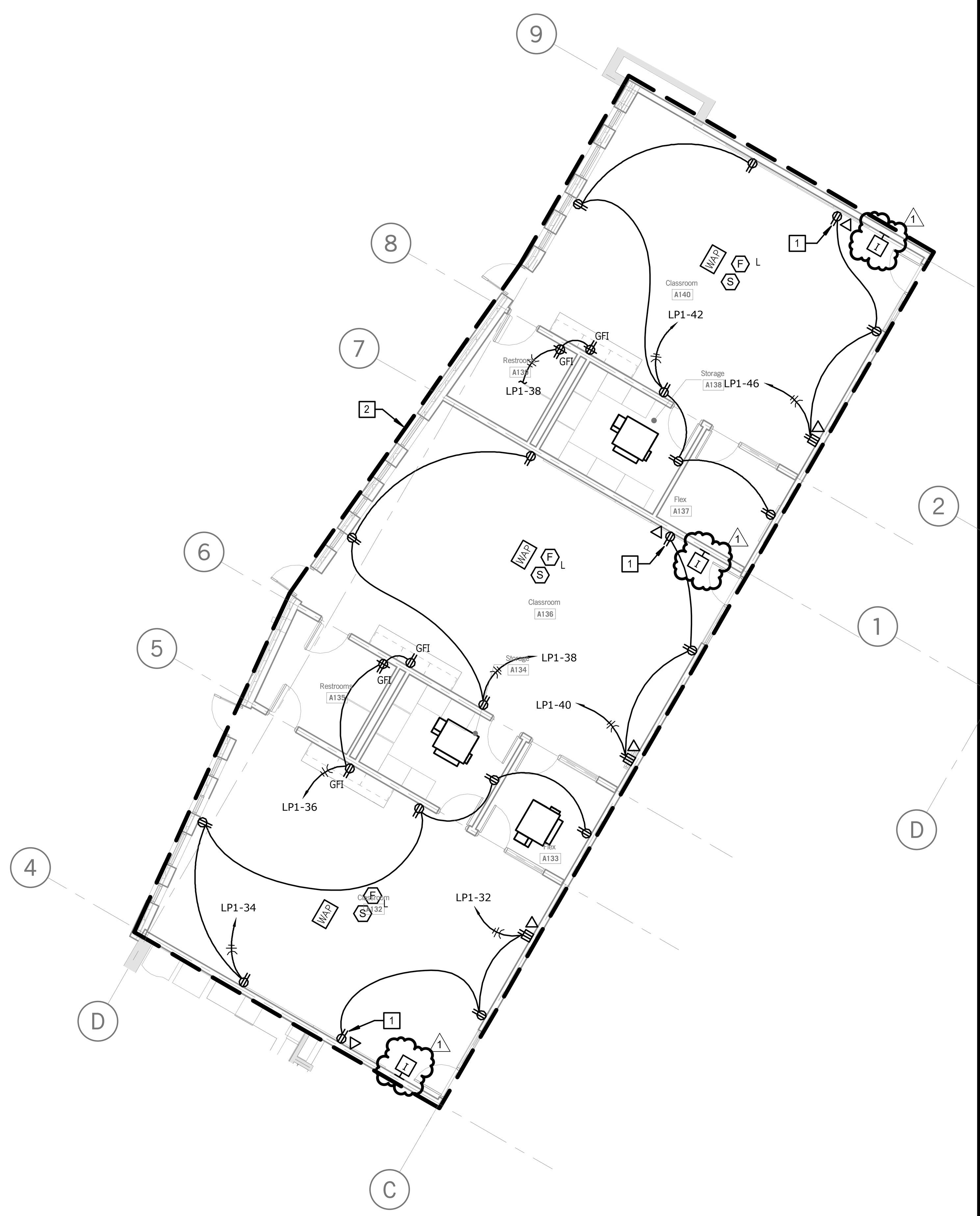


A1 Scale 1/8" = 1'-0"
FLOOR PLAN - AREA A - ALTERNATE 2 - POWER

A7 Scale 1/8" = 1'-0"
FLOOR PLAN - AREA A - POWER

SHEET KEYNOTE LEGEND

GENERAL NOTES:

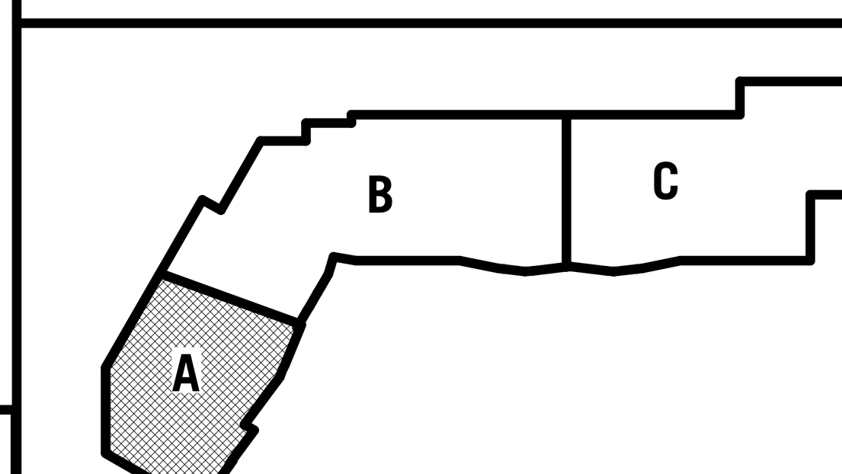
1. REFER TO MECHANICAL SCHEDULES ON ME SHEETS FOR CIRCUITING INFORMATION OF MECHANICAL EQUIPMENT.
2. ALL WALL MOUNTED ELECTRICAL DEVICES ARE TO BE INSTALLED IN AN ORDERLY FASHION. DEVICES IN CLOSE PROXIMITY AND AT DIFFERENT HEIGHTS ARE TO BE STACKED VERTICALLY. DEVICES AT THE SAME HEIGHT SHOULD BE INSTALLED GANGED TOGETHER OR AS CLOSE AS REASONABLY EXPECTED. DEVICE ROUGH IN IS TO BE APPROVED BY ARCHITECT/ENGINEER PRIOR TO DRYWALLING.
3. TELECOM BOXES ARE TO HAVE TWO DROPS UNLESS NOTED OTHERWISE. PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
4. PROVIDE SLEEVES AS REQUIRED THROUGH WALLS THAT EXTEND TO STRUCTURE FOR COMMUNICATION CABLING PATHWAYS. FIRE STOP SLEEVES AS REQUIRED WHEN INSTALLED IN RATED WALLS.
5. PROVIDE DEDICATED 120V CIRCUIT TO EACH BMS PANEL AS REQUIRED. CIRCUIT FROM SPARE 20A SINGLE POLE BREAKERS.
6. PROVIDE SINGLE DATA OUTLET IN BOX ABOVE ACCESSIBLE CEILING AT ALL WIRELESS ACCESS POINT LOCATIONS. MARK TILES TO INDICATE WHERE WAPS ARE INSTALLED. COORDINATE WITH OWNER.
7. ALL SPEAKERS DENOTED WITH AN 'F' ARE DUAL TAP SPEAKERS WITH FIRE ALARM INPUT ON PRIMARY TAP. RE: SPECIFICATIONS.

ELECTRICAL PLAN NOTES:

1. POWER AND DATA FOR SMART BOARD. RE: ARCHITECTURAL DRAWINGS FOR EXACT ELEVATION AND MOUNTING LOCATIONS.
2. 4X12 CABLE TRAY. COORDINATE INSTALLATION WITH OTHER TRADES ABOVE CORRIDOR CEILING.
3. DEDICATED RECEPTACLE FOR DRINKING FOUNTAIN. COORDINATE ROUGH IN ELEVATION AND LOCATION TO BE CONCEALED WITHIN FIXTURE HOUSING.
4. PROVIDE FLOOR BOX WITH DUPLEX RECEPTACLE, (2) DATA OUTLETS, AND BLANK GANG WITH EMPTY 1-1/2" CONDUIT TO WALL BOX.
5. PROVIDE WIREMOLD EFSB4 WALL BOX FOR TV/MONITOR. PROVIDE WITH DUPLEX RECEPTACLE, (2) DATA OUTLETS, BLANK GANG WITH EMPTY 1-1/2" CONDUIT TO FLOOR BOX, AND BLANK GANG WITH EMPTY 1-1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH BUSHINGS ON CONDUIT ENDS.
6. DEDICATED RECEPTACLE FOR REFRIGERATOR.
7. DEDICATED RECEPTACLE FOR VENDING MACHINE.
8. DEDICATED RECEPTACLE FOR DISHWASHER.
9. DEDICATED RECEPTACLE FOR UNDERCOUNTER REFRIGERATOR.
10. NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT WITH (3)#10, #10G, 3/4"C.
11. DEDICATED CIRCUIT FOR WASHING MACHINE. COORDINATE EXACT ELEVATION AND MOUNTING LOCATION WITH APPLIANCE.
12. PROVIDE 8'X8' PLYWOOD BACKBOARD FOR MDF. PAINT WITH 2 COATS WHITE FIRE RETARDANT PAINT.
13. PROVIDE WIREMOLD EFSB4 WALL BOX FOR TV/MONITOR. PROVIDE WITH DUPLEX RECEPTACLE, (2) DATA OUTLETS, AND BLANK GANG WITH EMPTY 1-1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH BUSHINGS ON CONDUIT ENDS.
14. ADA DOOR OPERATOR. PROVIDE JUNCTION BOXES AS INDICATED FOR PUSH BUTTONS. PROVIDE POWER AS REQUIRED FOR DOOR SYSTEM. COORDINATE LOCATIONS AND MOUNTING WITH ARCHITECT.
15. KEYPAD TO TEMPORARY DISARM EXTERIOR DOOR. COORDINATE WITH DOOR HARDWARE PROVIDER. PROVIDE ALL CONNECTIONS AS REQUIRED.
16. PUSH BUTTON FOR DOOR ENTRY REQUEST WITH AUDIO INTERCOM. COORDINATE MOUNTING WITH ARCHITECT. COORDINATE REQUIREMENTS WITH DOOR HARDWARE PROVIDER. (1)
17. JUNCTION BOX FOR EXTERIOR DOOR RELEASE. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER.
18. PROVIDE POWER CONNECTION FOR SECURED DOOR SYSTEM AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER.
19. PROVIDE NEMA 14-30R RECEPTACLE FOR UPS. CIRCUIT WITH (3)#10, #10G., 1/2"C.
20. ALL WORK IN THIS AREA TO BE PART OF ALTERNATE 2. (1)
21. MDF LOCATION. PROVIDE 4-POST RACK PER SPECIFICATIONS. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE GROUNDING BUS BAR PER DETAIL.
22. PROVIDE POST TO MOUNT ENTRANCE HARDWARE ON. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDER. COORDINATE EXACT LOCATION WITH ARCHITECT.

smith&boucher ENGINEERS
25501 west valley parkway, suite 200 olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 1617200

KEY PLAN



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Joplin Early Childhood Center
Joplin Schools

REVISIONS:

#	Description	Date
1	ADDENDUM #2	10-24-16

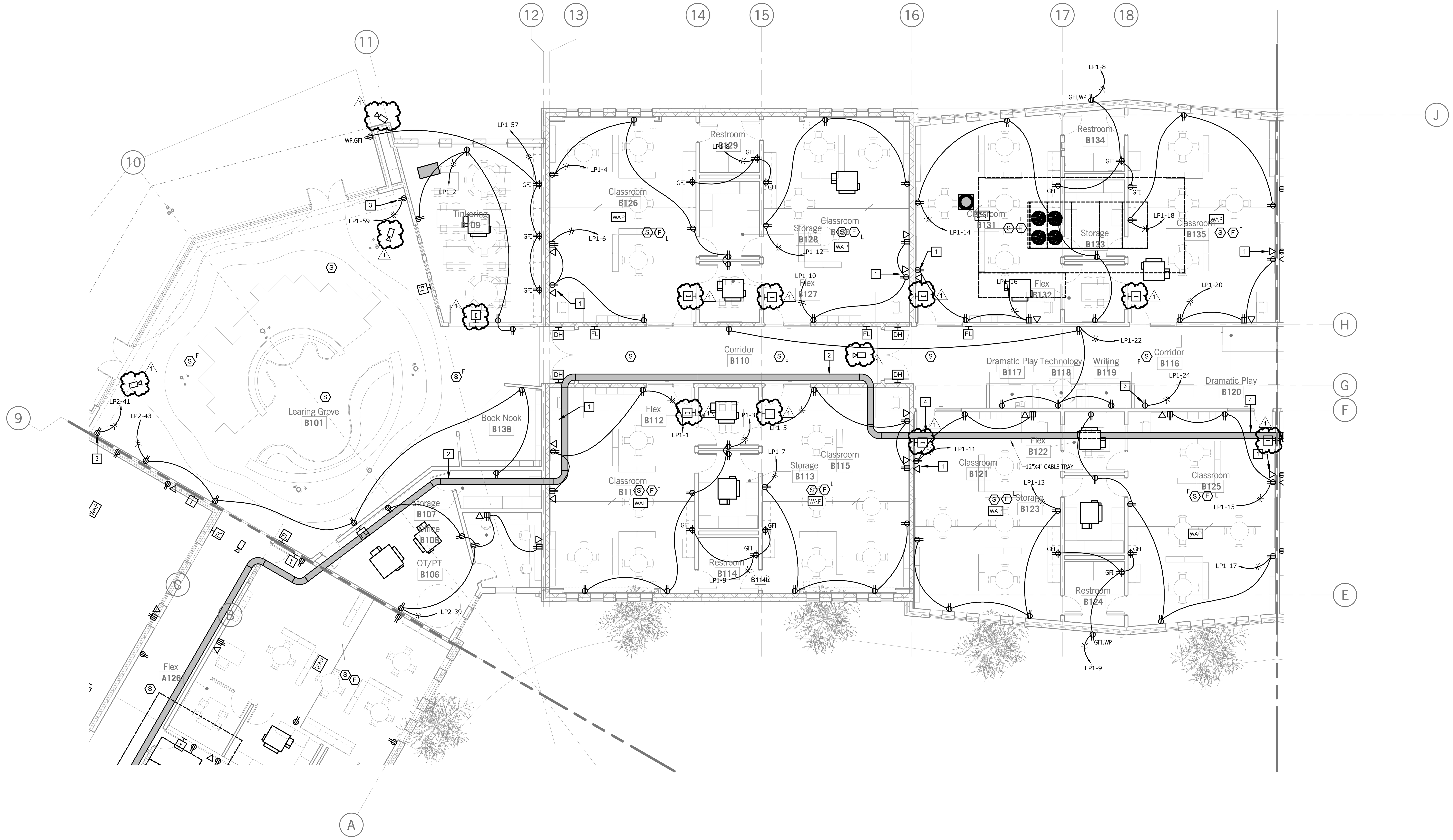
STATE OF MISSOURI
KENT T. McCOSH
NUMBER PE-028030
REGISTERED PROFESSIONAL ENGINEER
9/30/16

JOB NO: 16054
DRAWN BY: S&B
CHECKED BY: KTM
DATE: 09.30.2016

E201A

OF

FLOOR PLAN - AREA A - POWER



A1	Scale 1/8" = 1'-0"	FLOOR PLAN - AREA B - POWER

SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET E201A FOR ADDITIONAL GENERAL NOTES.

ELECTRICAL PLAN NOTES:

1 POWER AND DATA FOR SMART BOARD. RE: ARCHITECTURAL DRAWINGS FOR EXACT ELEVATION AND MOUNTING LOCATIONS.

2 4X12 CABLE TRAY. COORDINATE INSTALLATION WITH OTHER TRADES ABOVE CORRIDOR CEILING.

3 DEDICATED RECEPTACLE FOR DRINKING FOUNTAIN. COORDINATE ROUGH IN ELEVATION AND LOCATION TO BE CONCEALED WITHIN FIXTURE HOUSING.

4 DEDUCT ALTERNATE A: REROUTE CABLE TRAY TO BE ABOVE PLAY AREA CEILINGS.

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relationships + results

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Lee's Summit, MO 64063
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HOLLISANDMILLER.COM

Hollis + Miller Architects
Missouri State Certificate of Authority
Architecture # 0000161
Structure # 2006031333

Anderson Engineering
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Land3 Studio
Landscape Architect
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Smith & Boucher Engineers
MEP Engineers
EGC-000178
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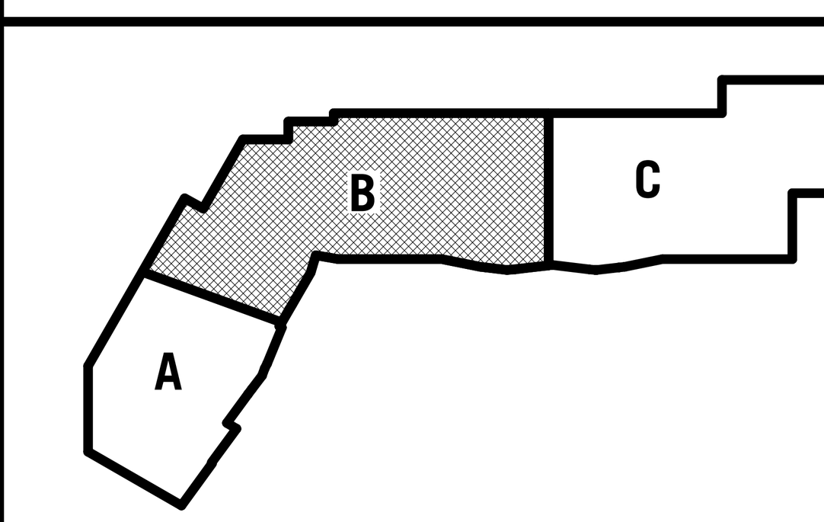
smith&boucher ENGINEERS
25501 west valley parkway, suite 200 olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 1617200

KEY PLAN



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E202B

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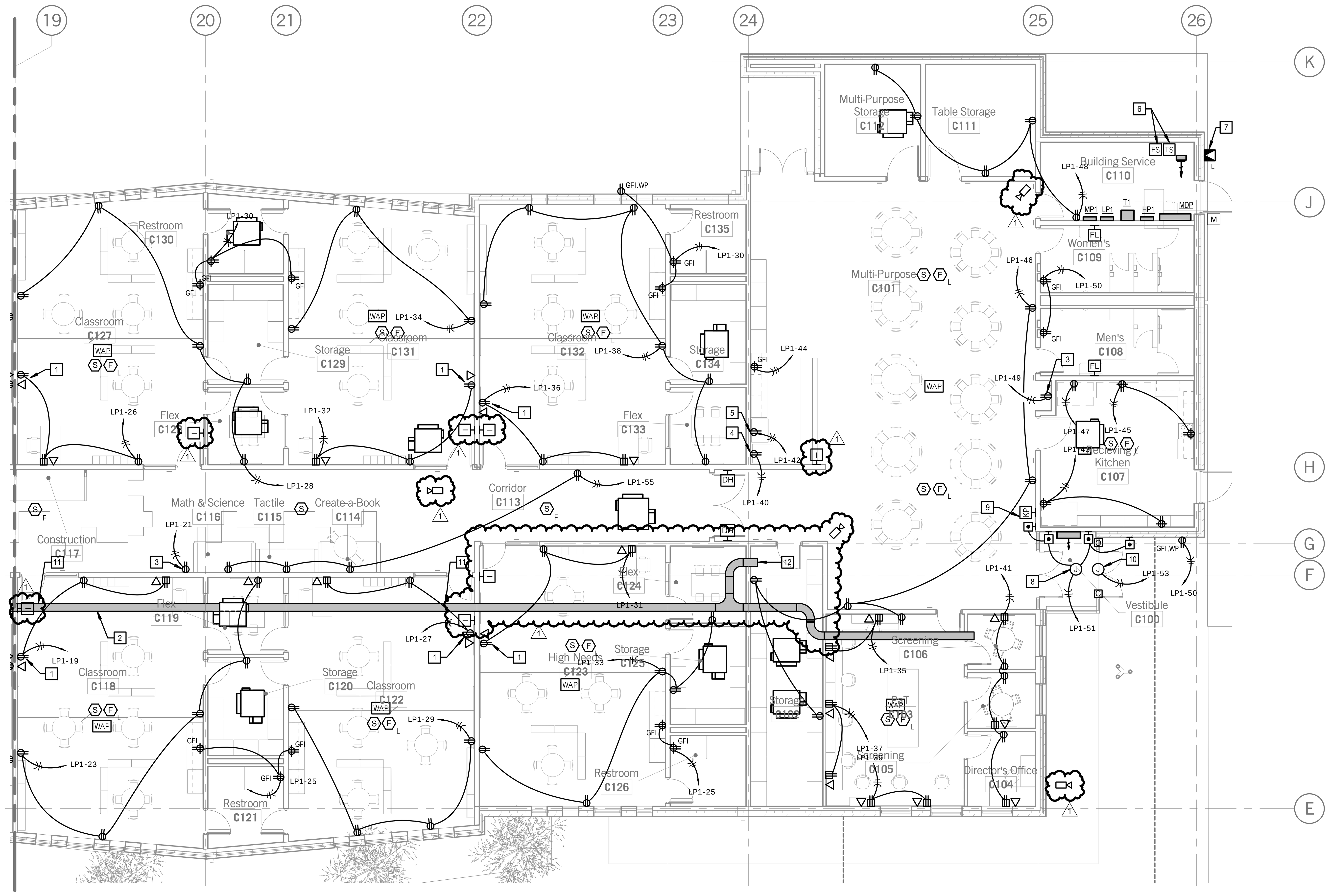

SHEET KEYNOTE LEGEND

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2 4X12 CABLE TRAY. COORDINATE INSTALLATION WITH OTHER TRADES ABOVE CORRIDOR CEILING.

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4 DEDICATED RECEPTACLE FOR REFRIGERATOR.

5 DEDICATED RECEPTACLE FOR ICE MAKER.

6 FURNISH AND INSTALL FLOW AND TAMPER SWITCHES FOR FIRE SPRINKLER ENTRANCE. COORDINATE LOCATION WITH FIRE PROTECTION CONTRACTOR. CONNECT TO FIRE ALARM SYSTEM AS REQUIRED.

7 INSTALL WEATHERPROOF FIRE ALARM HORN STROBE ABOVE FIRE DEPARTMENT CONNECTION.

8 ADA DOOR OPERATOR. PROVIDE JUNCTION BOXES AS INDICATED FOR PUSH BUTTONS. PROVIDE POWER AS REQUIRED FOR DOOR SYSTEM. COORDINATE LOCATIONS AND MOUNTING WITH ARCHITECT.

9 KEYPAD TO TEMPORARY DISARM EXTERIOR DOOR. COORDINATE WITH DOOR HARDWARE PROVIDER. PROVIDE ALL CONNECTIONS AS REQUIRED.

10 PROVIDE POWER CONNECTION FOR SECURED DOOR SYSTEM AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE PROVIDER.

11 DEDUCT ALTERNATE A: REROUTE CABLE TRAY TO BE ABOVE PLAY AREA CEILINGS.

12 LOCATION OF SECONDARY IT SWITCH AND RACK. PROVIDE LOCKABLE CABINET ENCLOSURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECT/OWNER. PROVIDE FIBER BACKBONE BETWEEN MDF RACK AND SWITCH.

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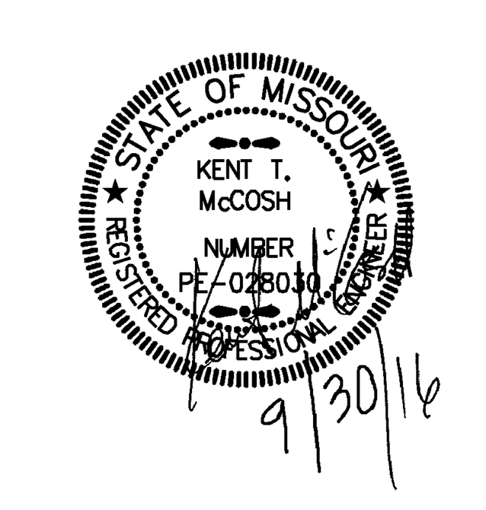
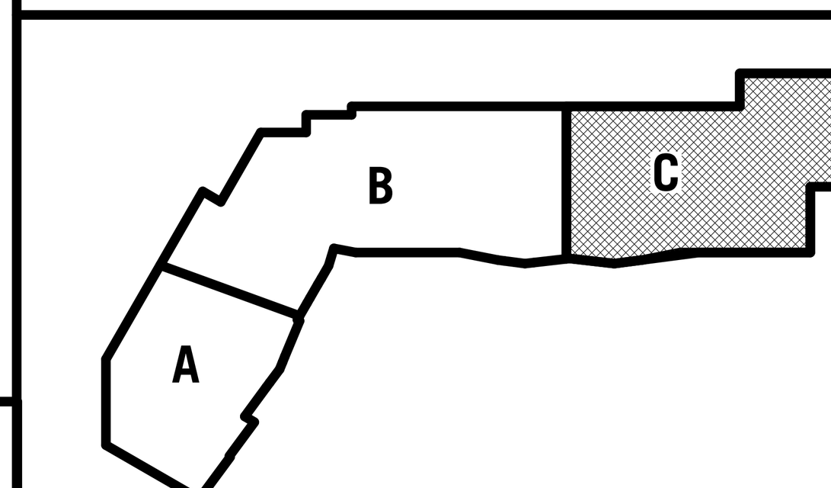


KEY PLAN



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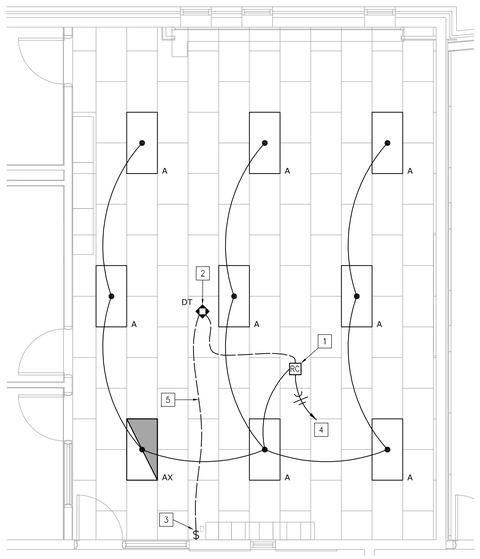
E203C

_____ OF _____

A1 | Scale 1/8" = 1'-0" | FLOOR PLAN - AREA C - POWER

FLOOR PLAN - AREA C - POWER



GENERAL NOTES:

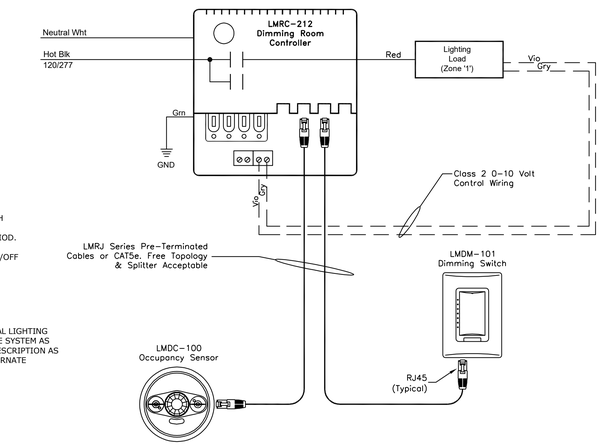
1. REFER TO LIGHTING CONTROL DETAIL FOR CONNECTION INFORMATION FOR LIGHTING CONTROL DEVICES.
2. PROVIDE ALL EQUIPMENT NEEDED FOR A COMPLETE WORKING DAY LIGHT HARVESTING CONTROLS SYSTEM.

PLAN NOTES:

1. ROOM CONTROLLER, 0-10V DIMMING, WATTSTOPPER MODEL LMRC-212 OR APPROVED EQUAL. PROVIDE CONTROL OF FIXTURES AS SHOWN. MOUNT ABOVE ACCESSIBLE CEILING AS REQUIRED.
2. CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (VACANCY SENSOR), WATTSTOPPER MODEL LMDC-100 OR APPROVED EQUAL. PROVIDE AUTOMATIC OFF ONLY, OCCUPANT MUST MANUALLY TURN FIXTURES ON VIA SWITCH AS SHOWN.
3. 1-BUTTON DIMMING WALL SWITCH, WATTSTOPPER MODEL LMDM-101 OR APPROVED EQUAL.
4. 277V CIRCUIT AS INDICATED ON DRAWINGS.
5. CAT 5 CABLE TYPICAL ALL DASHED LINES THIS PLAN. REFER TO MANUFACTURERS CONNECTION DIAGRAMS FOR ALL CONNECTIONS REQUIRED.

TYPICAL CLASSROOM - LIGHTING CONTROL

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



SEQUENCE OF OPERATION

- LIGHT FIXTURES ARE MANUAL ON/OFF WITH OCCUPANCY SENSOR TO TURN OFF LIGHTS AFTER AN ADJUSTABLE VACANCY TIME PERIOD.
- CONTROL LOCATION AT ENTRY ALLOWS ON/OFF AND DIMMING CONTROL OF LIGHTING.

GENERAL NOTES:

1. BASIS OF DESIGN IS WATTSTOPPER DIGITAL LIGHTING MANAGEMENT SERIES. PROVIDE COMPLETE SYSTEM AS REQUIRED TO MEET LIGHTING CONTROL DESCRIPTION AS INDICATED FOR BASIS OF DESIGN OR ALTERNATE MANUFACTURER.

TYPICAL CLASSROOM - LIGHTING CONTROL DETAIL

NOT TO SCALE

INTERIOR LIGHTING CONTROL EQUIPMENT LEGEND

SYMBOL	FUNCTION	MOUNTING	SETTING(TYPICAL)	WATT STOPPER MODEL #	NOTES
◆DT	MOTION SENSOR	CEILING	ON: AUTOMATIC OFF: 30 MINUTE DELAY	WATTSTOPPER LMDC-100	NOTE 1
$M	MOTION SENSOR	WALL SWITCH	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER PW-100	NOTE 3
$	OVERRIDE SWITCH	WALL SWITCH	----	RE: SPECS	NOTE 2
RC	ROOM CONTROLLER	----	----	WATTSTOPPER LMRC	NOTE 4

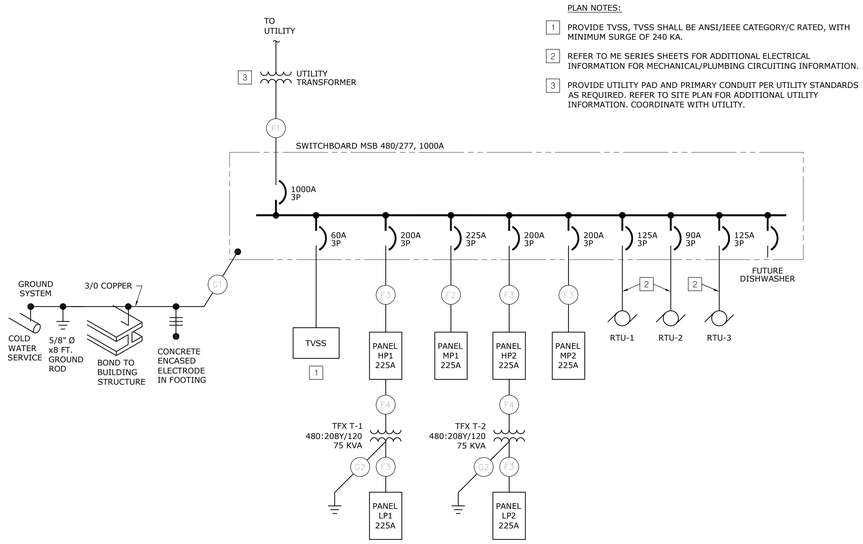
GENERAL NOTES: THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES.

NOTE 1: PROVIDE "B" SERIES POWER PACKS AS REQUIRED IN EACH SPACE. PROVIDE 8'-0" OF EXCESS CONTROL WIRING, COILED AND TIED, BETWEEN CEILING MOUNTED OCCUPANCY SENSORS AND CORRESPONDING POWER PACKS AT EACH SENSOR LOCATION.

NOTE 2: LINE VOLTAGE LOCAL OVERRIDE SWITCH FOR MOTION SENSORS, REFER TO OCCUPANCY SENSOR WIRING DIAGRAM FOR CIRCUITING/LOCATION OF SWITCH. OVERRIDE SWITCH TO TURN OFF LIGHTS ONLY, NOT OCCUPANCY SENSOR.

NOTE 3: PASSIVE INFRARED-SINGLE RELAY WALL MOUNT-LINE VOLTAGE.

NOTE 4: LOCATE DEVICE ABOVE ACCESSIBLE CEILING, LOCATIONS SHOWN ON DRAWINGS ARE SCHEMATIC.



PLAN NOTES:

1. PROVIDE TVSS, TVSS SHALL BE ANSI/IEEE CATEGORY/C RATED, WITH MINIMUM SURGE OF 240 KA.
2. REFER TO ME SERIES SHEETS FOR ADDITIONAL ELECTRICAL INFORMATION FOR MECHANICAL/PLUMBING CIRCUITING INFORMATION.
3. PROVIDE UTILITY PAD AND PRIMARY CONDUIT PER UTILITY STANDARDS AS REQUIRED. REFER TO SITE PLAN FOR ADDITIONAL UTILITY INFORMATION. COORDINATE WITH UTILITY.

FEEDER SCHEDULE

MARK	AMPS	DESCRIPTION (COPPER)
F1	1000	3 SETS (4) #400, 4"C.
F2	225	(4) #4/0, #4G., 2"C.
F3	200	(4) #3/0, #6G., 2"C.
F4	100	(4) #3, #8G., 1-1/4"C.
F6	---	#3/0 IN 1"C.
F8	---	#4 IN 1"C.

ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE

FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
A	2'X4' ARCHITECTURAL RECESSED LED TROFFER. STEEL HOUSING, OPTICAL ACRYLIC LENS, INTEGRAL DRIVER. (X): PROVIDE WITH 90 MINUTE EM DRIVER, 1400 LUMENS.	RECESSED	LED 3500K	277	CREE ZR SERIES WILLIAMS LT SERIES OR APPROVED EQUAL	44
B	LINEAR LED PENDANT. EXTRUDED ALUMINUM HOUSING, FLUSH FROSTED ACRYLIC LENS, 275 LUMENS UP, 625 LUMENS DOWN, INTEGRAL DRIVER.	PENDANT AIRCRAFT CABLE	LED 3500K	277	FOCAL POINT SEEM4 FINELITE HP4 SERIES OR APPROVED EQUAL	11 PER FT
C	4'-0" LINEAR LED WALL MOUNT. EXTRUDED ALUMINUM HOUSING, SQUARE ACRYLIC LENS, INTEGRAL DRIVER.	SURFACE	LED 3500K	277	BARTCO BSS210 OR APPROVED EQUAL	34
C1	SAME AS TYPE C BUT 2'-0" LENGTH.	SURFACE	LED 3500K	277	BARTCO BSS210 OR APPROVED EQUAL	17
D	4' LENSED LED STRIP LIGHT, STEEL HOUSING, SEMI FROST ACRYLIC LENS.	SURFACE	LED 3500K 3000 LUMENS	277	COOPER METALUX 4SNLED PHILIPS LF SERIES	25
F	4" DIAMETER GLASS GLOBE PENDANT. PROVIDE CABLE LENGTH AS REQUIRED TO MOUNT AT ELEVATION INDICATED BY ARCHITECT.	PENDANT AIRCRAFT CABLE	GY6.35 BASE XENON	120	LBL LIGHTING BULLE OR APPROVED EQUAL	35
G	1" WIDTH LINEAR LED. SUSPENSION MOUNT, ALUMINUM HOUSING, ACRYLIC LENS, REMOTE DRIVER. REFER TO ARCHITECTURAL DRAWINGS FOR INDIVIDUAL LENGTHS	PENDANT	LED 3500K 235 LUM/FT	277	EDGE LIGHTING CIRRUS CHANNEL OR APPROVED EQUAL	5 PER FT
H	EXTERIOR LED WALL PACK, ALUMINUM HOUSING, TAMPER RESISTANT, TYPE 4 DISTRIBUTION, EMERGENCY COLD WEATHER POWER PACK, COLOR BY ARCHITECT.	WALL	LED 4000K 3000 LUMENS	277	MCGRAW-EDISON IST SERIES GARDCO WRM SERIES OR APPROVED EQUAL	54
J	3.5" APERTURE RECESSED DOWNLIGHT. ALUMINUM HOUSING, BOROSILICATE GLASS LENS, ALUMINUM HEAT SINK, INTEGRAL DRIVER.	RECESSED	LED 3500K 1445 LUMENS	277	WAC LIGHTING TESLA SERIES FOCAL POINT ID 3.5 SERIES OR APPROVED EQUAL	22
K	LED WALL SCONCE. FROSTED ACRYLIC SHADE, 2-1/2" DIAMETER, ALUMINUM BRACKET, INTEGRAL DRIVER.	WALL	LED 3000K 200 LUMENS	120	SONNEMAN 2210 SERIES OR APPROVED EQUAL	3
L	DECORATIVE PENDANT. SILICONE SOCKET, POLYMER CABLE. PROVIDE WITH ARCHIPELAGO LIGHTING LED CLEAR GLOBE BULB. REFER TO ARCH FOR MOUNTING.	ARM MOUNTED PENDANT	LED 3500K 500 LUMENS	120	Y LIGHTING E27 SERIES OR APPROVED EQUAL	5
M	6" RECESSED LED DOWNLIGHT, ALUMINUM HOUSING AND HEAT SINK, ALUMINUM REFLECTOR, INTEGRAL DRIVER. (X): PROVIDE WITH 90MIN BATTERY BACKUP	RECESSED	LED 3500K 2000 LUMENS	277	PORTFOLIO LD6 SERIES PRESCOLITE LF6 SERIES PHILIPS P6R SERIES	32
2 N	INGROUND LED UPLIGHT. NONMETALLIC RECESSED HOUSING, SOLID BRASS ROUND TRIM RING, DOMED 1/2" THICK GLASS LENS, 9 DEGREE SPOT, INTEGRAL LED DRIVER. FINISH COLOR BY ARCHITECT.	IN-GRADE	LED 4000K 85 CRI	277	LUMIERE MONACO 3002 SERIES BEGA 7003 SERIES OR APPROVED EQUAL	18
S	POLE MOUNTED LED LIGHTING. ALUMINUM HOUSING, INTEGRAL DRIVER, TYPE IV DISTRIBUTION. FINISH COLOR BY ARCHITECT. 600mA DRIVE CURRENT. PROVIDE WITH 25' ROUND STEEL POLES.	POLE	LED 4000K 20,000 LUMENS	277	COOPER GALEON SERIES KIM ALT SERIES OR APPROVED EQUAL	160
S2	SAME AS ABOVE BUT TYPE II DISTRIBUTION.					
X	EXIT SIGN, POLYCARBONATE HOUSING, CHEVRONS PER PLANS, RED LED LETTERING, NI-CAD BATTERY.	VARIOUS WALL OR CEILING	LED	277	SURE LITES LPX7 SERIES DUAL LITE LX SERIES	--

LIGHTING CONTACTOR SCHEDULE

NO.	DESCRIPTION	PANEL	LOAD CIRCUITS	CONTROL CIRCUIT	# POLES	OPERATION	REMARKS
LC-1	EXTERIOR LIGHTING	HP1	1,15	HP1-15	4	NOTE 2	NOTE 1

NOTES:
1: PROVIDE INTERMATIC ET8000 SERIES ELECTRONIC TIME CLOCK OR EQUAL.
2: PHOTOCELL/ASTRONOMIC TIME CLOCK ON/OFF BASED ON SUNSET/SUNRISE AND OWNER INPUT.

GROUND BUS ASSEMBLY:

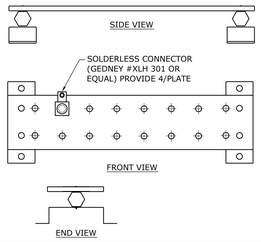
1/4" X 4" X 18" COPPER GROUND BAR WITH 7/16" DIAMETER HOLES ON 2" CENTERS.

1-3/8" STAND-OFF INSULATORS WITH 3/8: 16 HARDWARE.

GALVANIZED MOUNTING BRACKETS, 14 GAUGE.

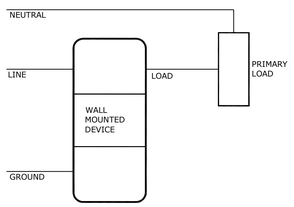
GROUND BUS ASSEMBLY AS MANUFACTURED BY EMI OR EQUAL.

PROVIDE #6 CU IN 1/2" C. BONDED TO MAIN BUILDING ELECTRICAL SERVICE ENTRANCE GROUNDING SYSTEM.



TELECOMMUNICATIONS MAIN GROUNDING BUS BAR DETAIL

NOT TO SCALE



LINE VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM

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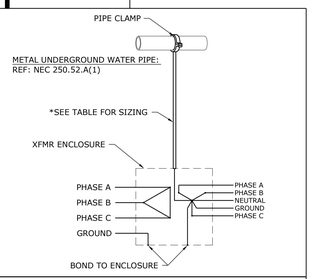
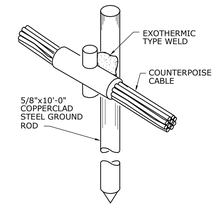


TYPICAL TRANSFORMER GROUNDING

NOT TO SCALE



TYPICAL GROUND ROD CONNECTION

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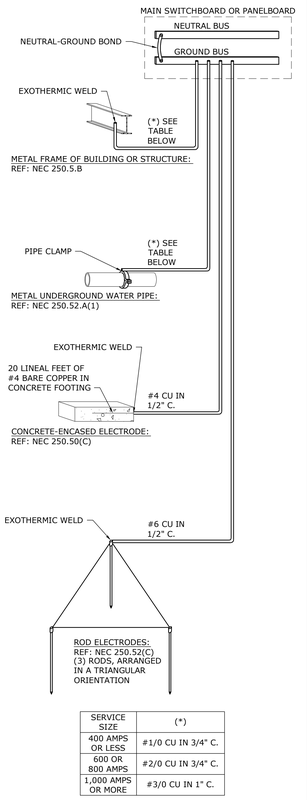

SERVICE SIZE	(*)
400 AMPS OR LESS	#1/0 CU IN 3/4" C.
600 OR 800 AMPS	#2/0 CU IN 3/4" C.
1,000 AMPS OR MORE	#3/0 CU IN 1" C.

SERVICE GROUNDING DIAGRAM

NOT TO SCALE

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E301

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JOPLIN EARLY CHILDHOOD CENTER
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Plotted: Monday, October 24, 2016 11:41:36 AM
Prasanna Patro Monday, October 24, 2016 11:42:11 AM
PROJECT NAME:
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LAST CORRECTION BY: ◆ DATE ◆ TIME:
PLOTTED BY: ◆ DATE ◆ TIME: