



Procurement Division
Public Services Building
2051 Kaen Road
Oregon City, OR 97045
(503) 742-5444 (Office)

REQUEST FOR QUOTES (RFQ) #2018-76

Issue Date: August 21, 2018

Project Name:	Barton Park Restroom Replacement Project		
Quote Due Date/Time:	September 6, 2018, 2:00 PM		
Procurement Analyst:	Ryan Rice	Phone:	503-742-5446
		Email:	rrice@clackamas.us

**SUBMIT QUOTES VIA EMAIL TO PROCUREMENT@CLACKAMAS.US
OR MAIL/HAND DELIVERY TO THE ABOVE ADDRESS**

**PLEASE NOTE: EMAIL SUBMISSIONS SHOULD HAVE
“2018-76 BARTON PARK RESTROOM REPLACEMENT” IN THE SUBJECT LINE**

1. ANNOUNCEMENT AND SPECIAL INFORMATION

Quoters are required to read, understand, and comply with all information contained within this Request for Quotes (“RFQ”). All quotes are binding upon Quoter for sixty (60) days from the Quote Due Date/Time. Quotes received after the Quote Due Date/Time may not be considered. If authorized in the RFQ and resulting contract, travel and other expense reimbursement will only be reimbursed in accordance with the Clackamas County Travel Reimbursement Policy in effect at the time the expense is incurred. The Policy may be found at www.clackamas.us/bids/terms.html.

It will be the responsibility of potential Quoters to refer daily to the Bids and Contract Information Page (www.clackamas.us/bids/index.html) to check for any available addenda, response to clarifying questions, cancellations or other information pertaining to this RFQ.

All questions regarding this RFQ are to be directed to the Procurement Analyst named above. Quoters may not communicate with County employees or representatives about the RFQ during the procurement process until the Procurement office has notified Quoters of the selected Quoter. Communication in violation of this restriction may result in rejection of a Quoter.

2. SCOPE

The purpose of this RFQ is to provide all necessary materials and labor to remove and dispose of an obsolete trailer mobile restroom, clear existing vegetation, re-grade and make ready the same site to place an owner supplied precast concrete restroom.

Site preparation will include an upgraded water service, all required under floor plumbing, reconstruction and reconnection of the outside electrical system, and reconnection to existing septic sewer system. The placement of a new County provided CXT Precast Restroom Building at the desired site will require an existing trailer mobile restroom to be removed, a concrete retaining wall demolished, vegetation cleared, and a compacted crushed aggregate pad to be constructed. Work will also include subsequent construction of concrete sidewalks surrounding the new restroom and all other work necessary to provide a useable facility to the public.

Major Project Components include:

- Sub-contract with qualified Electrical and Plumbing contractors, layout construction limits and establish the building lines and grades.

- Disconnect the utilities and remove the present trailer mobile restroom. Mark for future reference the location of the retaining wall. Proceed with the concrete demolition. Clear and grub the existing vegetation.
- Excavate and remove approximately 140 cubic yards of soil and sufficiently compact the sub-grade.
- Place and compact approximately 240 Tons of aggregate base on the prepared sub-grade allowing the under floor plumbing to trenching to occur.
- Import and place approximately 350 truck yards of compactable fill material on the perimeter fill slopes and fine grade. Hydro seed following the completion of the concrete work.
- Determine the best means and sequences to trench and slope new lines to the existing utility connection points.
- Construct the below floor plumbing following the details on CXT Drawing S-37.
- Coordinate with PGE regarding the removal and re-establishment of a new treated pole and overhead drop to the restroom meter base (County Parks has introduced this mater to PGE and will pay the direct PGE costs).
- Connect and/or re-connect the new restroom utility service lines subsequent to the building arrival.
- Grade, form and pour the perimeter sidewalks, ramps and ADA access improvements.
- Should quotes exceed \$50,000.00, performance and payment bonds will be a required part of the final Contract.
- All work and material are subject to field observations at all times by the owner.

There are no digitized plans or means to provide survey control for construction staking. Work therefore includes the contractor to construct accurate batter boards and string lines as a means for establishing the grade and horizontal layout of the project. Batter boards shall be placed beyond the area of construction disturbance and be maintained until all restroom preparation work in achieved. Prior to setting the batter board control, the plan dimensions shall be verified by calculation. The County shall provide a basic layout and shall approve the position of the batter board sting lines and will check the positioning of the under floor work using these string lines.

Site Location:

Barton Park day use area.

The site is within the lower level of Barton Park and is within 50 ft. of available paved parking and the paved road to the Clackamas River boat ramp. The existing trailer mobile restroom and concrete retaining wall presently occupy the site and is somewhat obscured in the landscape on the north side of the road. The present trailer restroom is set below the retaining wall while the new building's north sidewall will be set just south of and slightly above this same wall being demolished. This portion of Barton Park and the new restroom site are within the Clackamas River Flood Plain yet, no additional footing and anchoring is being required. Construction accuracy is imperative in the precise location of the building pad and the construction of the under floor plumbing and electrical work (Please refer to CXT Plan Page S-37 for the under floor work details).

Permits:

County Parks will obtain the general building permit and order the manufacture of the new restroom. CXT will arrange for the crane delivery. Awarded contractor will be responsible for the Trade Related Electrical and Plumbing permits. Contractor shall be responsible for all violations of the law, in connection with the construction or caused by obstructing streets, sidewalks or otherwise. Contractor shall give all requisite notices to public authorities

Engineers Estimate: \$67,000.00

Key Dates:

Prep Work: All Restroom Site Preparation work must be completed by October 15, 2018, which will coincide with the shipping and arrival of the CXT structure.

Sidewalk and Finish Grading: All sidewalk work and finish grading shall be completed within 45 day of the CTX building arrival.

Project Substantial Completion: December 1, 2018

Project Final Completion: December 31, 2018.

**A project related contractor's "bar chart" schedule is required with the submitted quote. This schedule should be divided into two components: 1) Restroom Site Preparation. 2) Subsequent Sidewalk Construction.

Contractor Prequalification's:

- Contractor must hold a current valid Construction Contractors Board Number;
- Contractor must have completed three (3) projects of similar size and scope within the last five (5) years. County reserves the right to request project reference list at any time.

The following items are included and incorporated within this RFQ:

- Division 2 – Special Provisions
- Clackamas County Parks & Forest Construction Plan- Drawing dated 8/15/18
- Clackamas County Parks & Forest Existing Conditions and Demolition Plan – Drawing dated 8/15/18
- CXT Precast Products drawing set pages S-01 through S-44.

Site Visit:

Quoters may schedule a site visit with Clackamas County Project Manager Dennis Everson at 503-841-3265 or via email at denniseverson@msn.com. Site visits will be available during regular business hours until close of day on August 30, 2018. All questions and answers addressed during site visits will be logged and posted on www.clackamas.us/bids.

Prevailing Wage

Prevailing Wage Rates requirements apply to this project because the maximum compensation for all owner-contracted work is more than \$50,000. The selected contractor and all subcontractors shall comply with the provision of ORS 279C.800 through 279C.870, relative to the Prevailing Wage Rates and the required public works bond.

PREVAILING WAGE RATES for Public Works Contracts in Oregon, July 1, 2018, which can be downloaded at the following web

address: http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx.

The Work will take place in Clackamas County, Oregon.

Delivery – Choose one of the following:

- Delivery required within _____ days of supplier's receipt of order.
- Delivery required on or before _____.
- Delivery time is of the essence and may be a factor in making an award.

3. Sample Contract

Submission of a Quote in response to this RFQ indicates Quoter's willingness to enter into a contract containing substantially the same terms of the **Public Improvement** contract, which can be found at: <http://www.clackamas.us/bids/terms.html>, with the below indicated requirements. No action or response to the sample contract is required under this RFQ. The applicable sample contract is the:

4. Quote

- A. Not-to-exceed price to complete the project- include the attached itemized quote schedule;
- B. Estimated time to complete the project- provide a contractors bar chart with quote;
- C. Clackamas County Certifications Form; and
- D. Any additional information that Clackamas County should take into consideration for the project or qualifications.

5. Evaluation

The quote received from the lowest responsive responsible Quoter will be awarded a contract. The "lowest responsive responsible Quoter" is the lowest Quoter who has substantially complied with all requirements of the Request for Quote and who can be expected to deliver promptly and perform reliably in the determination of Clackamas County.

CLACKAMAS COUNTY CERTIFICATIONS
RFQ #2018-76

Each Quoter must read, complete and submit a copy of this Clackamas County Certification with their Quote. Failure to do so may result in rejection of Quote. By signature on this Certification the undersigned certifies that they are authorized to act on behalf of the Quoter and that under penalty of perjury the undersigned will comply with the following:

SECTION I. OREGON TAX LAWS

As required in ORS 279B.110(2)(3), the undersigned hereby certifies that, to the best of the undersigned's knowledge, the Quoter is not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 320.005 to 320.150 and 403.200 to 403.250 and ORS chapters 118, 314, 316, 317, 318, 321, 323, and elderly rental assistance program under ORS 310.630 to 310.706, and local taxes administered by the Department of Revenue under ORS 305.620, all as applicable. If a contract is executed, this information will be reported to the Internal Revenue Service. Information not matching IRS records could subject Quoter to 28% backup withholding.

SECTION II. NON-DISCRIMINATION

The undersigned hereby certifies that the Quoter has not and will not discriminate in its employment practices with regard to race, creed, age, religious affiliation, sex, disability, sexual orientation, national origin, or any other protected class. Nor has Quoter or will Quoter discriminate against a subcontractor in the awarding of a subcontract because the subcontractor is a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns or an emergency small business that is certified under ORS 200.055.

SECTION III. CONFLICT OF INTEREST

The undersigned hereby certifies that no elected official, officer, agency or employee of Clackamas County is personally interested, directly or indirectly, in any resulting contract from this RFQ, or the compensation to be paid under such contract, and that no representation, statements (oral or in writing), of the County, its Commissioners, officers, agents, or employees had induced Quoter to submit this Quote. In addition, the undersigned hereby certifies that this proposal is made without connection with any person, firm, or corporation submitting a quote for the same material, and is in all respects fair and without collusion or fraud.

SECTION IV. COMPLIANCE WITH SOLICITATION

The undersigned further agrees and certifies that they:

1. Have read, understand and agree to be bound by and comply with all requirements, instructions, specifications, terms and conditions of the RFQ (including any attachments); and
2. Are an authorized representative of the Quoter, that the information provided is true and accurate, and that providing incorrect or incomplete information may be cause for rejection of the Quote or contract termination; and
3. Will furnish the designated item(s) and/or service(s) in accordance with the RFQ and Quote; and
4. Will use recyclable products to the maximum extend economically feasible in the performance of the contract work set forth in this RFQ.

Firm Name: _____ Date: _____

Signature: _____ Title: _____

Name: _____ Telephone: _____

Email: _____ OR CCB # (if applicable): _____

Business Designation (check one):

Corporation Partnership Sole Proprietorship Non-Profit Limited Liability Company

Resident Quoter, as defined in ORS 279A.120

Non-Resident Quote. Resident State: _____

Oregon Business Registry Number: _____

**CLACKAMAS COUNTY
INSTRUCTIONS TO QUOTERS**

Quotes are subject to the applicable provisions and requirements of the Clackamas County Local Contract Review Board Rule C-047-0270 (Intermediate Procurements) and Oregon Revised Statutes.

QUOTE PREPARATION

1. **QUOTE FORMAT:** Quotes must be submitted as indicated in the RFQ. Quotes may be submitted in writing to Clackamas County via e-mail, mail or in person.
2. **CONFORMANCE TO RFQ REQUIREMENTS:** Quotes must conform to the requirements of the RFQ. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way. Any requested attachments must be submitted with the quote and in the required format. Quote prices must be for the unit indicated on the quote. Failure to comply with all requirements may result in quote rejection.
3. **ADDENDA:** Only documents issued as addenda by Clackamas County serve to change the RFQ in any way. No other directions received by the Quoter, written or verbal, serve to change the RFQ document. NOTE: IF YOU HAVE RECEIVED A COPY OF THE RFQ, YOU SHOULD CONSULT THE CLACKAMAS COUNTY BIDS AND CONTRACT INFORMATION WEBSITE (www.clackamas.us/bids/index.html) TO ENSURE THAT YOU HAVE NOT MISSED ANY ADDENDA OR ANNOUNCEMENTS. QUOTERS ARE NOT REQUIRED TO RETURN ADDENDUMS WITH THEIR QUOTE. HOWEVER, QUOTERS ARE RESPONSIBLE TO MAKE THEMSELVES AWARE OF, OBTAIN AND INCORPORATE ANY CHANGES MADE IN ANY ADDENDA ISSUED, AND TO INCORPORATE ANY CHANGES MADE BY ADDENDUM INTO THEIR FINAL QUOTE. FAILURE TO DO SO MAY, IN EFFECT, MAKE THE QUOTER'S QUOTE NON-RESPONSIVE, WHICH MAY CAUSE THE QUOTE TO BE REJECTED.
4. **USE of BRAND or TRADE NAMES:** Any brand or trade names used by Clackamas County in the specifications are for the purpose of describing and establishing the standard of quality, performance and characteristics desired and are not intended to limit or restrict competition. Quoters may submit quotes for substantially equivalent products to those designated unless the RFQ provides that a specific brand is necessary because of compatibility requirements, etc. All such brand substitutions shall be subject to approval by Clackamas County.
5. **PRODUCT IDENTIFICATION:** Quoters must clearly identify all products quoted. Brand name and model or number must be shown. Clackamas County reserves the right to reject any quote when the product information submitted with the quote is incomplete.
6. **FOB DESTINATION:** Unless specifically allowed in the RFQ, ***QUOTE PRICE MUST BE F.O.B. DESTINATION with all transportation and handling charges included in the Quote.***
7. **DELIVERY:** Delivery time must be shown in number of calendar days after receipt of purchase order.
8. **EXCEPTIONS:** Any deviation from quote specifications, or the form of sample contract referenced in this RFQ, may result in quote rejection at County's sole discretion.
9. **SIGNATURE ON QUOTE:** Quotes must be signed by an authorized representative of the Quoter. Signature on a quote certifies that the quote is made without connection with any person, firm or corporation making a quote for the same goods and/or services and is in all respects fair and without collusion or fraud. Signature on a quote also certifies that the Quoter has read and fully understands all quote specifications, and the sample contract referenced in this RFQ (including insurance requirements). No consideration will be given to any claim resulting from quoting without comprehending all requirements of the RFQ.
10. **QUOTE MODIFICATION:** Quotes, once submitted, may be modified in writing before the time and date set for quote closing. Any modifications should be signed by an authorized representative, and state that the new document supersedes or modifies the prior quote. Quoters may not modify quotes after quote closing time.
11. **QUOTE WITHDRAWALS:** Quotes may be withdrawn by request in writing signed by an authorized representative and received by Clackamas County prior to the Quote Due Date/Time. Quotes may also be withdrawn in person before the Quote Due Date/Time upon presentation of appropriate identification.

- 12. QUOTE SUBMISSION:** Quotes may be submitted by returning to Clackamas County Procurement Division in the location designated in the introduction of the RFQ via email, mail or in person; however, no oral or telephone quotes will be accepted. Envelopes, or e-mails containing Quotes should contain the RFQ Number and RFQ Title.

QUOTE EVALUATION AND AWARD

- 1. PRIOR ACCEPTANCE OF DEFECTIVE PROPOSALS:** Due to limited resources, Clackamas County generally will not completely review or analyze quotes which fail to comply with the requirements of the RFQ or which clearly are not the best quotes, nor will Clackamas County generally investigate the references or qualifications of those who submit such quotes. Therefore, neither the return of a quote, nor acknowledgment that the selection is complete shall operate as a representation by Clackamas County that an unsuccessful quote was complete, sufficient, or lawful in any respect.
- 2. DELIVERY:** Significant delays in delivery may be considered in determining award if early delivery is required.
- 3. CASH DISCOUNTS:** Cash discounts will not be considered for award purposes unless stated in the RFQ.
- 4. PAYMENT:** Quotes which require payment in less than 30 days after receipt of invoice or delivery of goods, whichever is later, may be rejected.
- 5. INVESTIGATION OF REFERENCES:** Clackamas County reserves the right to investigate references and or the past performance of any Quoter with respect to its successful performance of similar services, compliance with specifications and contractual obligations, and its lawful payment of suppliers, sub-contractors, and workers. Clackamas County may postpone the award or execution of the contract after the announcement of the apparent successful Quoter in order to complete its investigation. Clackamas County reserves the right to reject any quote or to reject all quotes at any time prior to Clackamas County's execution of a contract if it is determined to be in the best interest of Clackamas County to do so.
- 6. METHOD OF AWARD:** Clackamas County reserves the right to make the award by item, groups of items or entire quote, whichever is in the best interest of Clackamas County.
- 7. QUOTE REJECTION:** Clackamas County reserves the right to reject any and all quotes.
- 8. QUOTE RESULTS:** Quoters who submit a quote will be notified of the RFQ results. Awarded quote files are public records and available for review by submitting a public records request or by appointment.

Barton Park Restroom Site Preparation and Sidewalks

Request of Quotes SCHEDULE OF VALUES

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	QUOTED PRICE
values					
1	MOBILIZATION, INSURANCE AND BOND	LS	1		
2	CONSTRUCTION BATTER BOARDS	LS	1		
3	FENCE AND EROSION CONTROL AND SEEDING	LS	1		
SUBTOTAL					
Site Clearing and Demolition					
8	REMOVAL AND DISPOAL OF THE EXISTING TRAILER MOBILE RESTRO	LS	1		
4	DEMOLITION AND REMOVAL OF THE REINFORCED CONCRETE WALL	LS	1		
5	REMOVAL OF OTHER STRUCTURES AND OBSTRUCTIONS	LS	1		
6	CLEARING AND GRUBBING	LS	1		
7	STRIPPING TOPSOIL AND STOCKPILING	YD3	50		
SUBTOTAL					
Excavation and Embankment					
9	GENERAL EXCAVATION	YD3	150		
10	IMPORT AND PLACEMENT OF COMPACT-ABLE BACKFILL MATERAIL	YD3	350		
11	3/4" AGGREGATE BASE	TON	240		
12	FINE GRADING AND TOPSOIL REPALACEMENT	LS	1		
SUBTOTAL					
Site Improvements					
13	BELOW FLOOR PLUMBING (CXT Plan S-37)	LS	1		
14	UPGRADED WATER SERVICE WITH COPPER LINE AND BACK FLOW	LS	1		
15	NEW ELECTRICAL SERVICE AND COORDINATION WITH PGE	LS	1		
SUBTOTAL					
Concrete Work					
16	ADA RAMP AND CURB REPLACEMENT	LS	1		
17	5 FT.WIDE SIDEWALK	.IN. FT	207		
18	SEPTIC TANK RISERS AND LIDS	EACH	2		
SUBTOTAL					
Special					
19	Force Account Allowance	all		\$ 5,000.00	\$ 5,000.00

TOTAL

Firm Name: _____

Date: _____

Firm's Representative _____

Representative's Signature: _____

RFQ #2018-76 Barton Park Restroom Replacement Project

Division 02 – Special Provisions

Applicable Specifications

The specifications covering the contract work are the latest edition of the Oregon Standard Specifications for Construction. All number references in the Special Provisions shall be understood to refer the Standard Specifications bearing the like number.

Class of Project

This is a Clackamas County Parks and Forest project using Oregon Parks grant funds. This is not a federally funded project.

Utility location/backfill material

Work has been designed without certain knowledge of the depth and size of the existing retaining wall footing. The depth and gradient of the existing sewer line is also unknown. Following the removal of the trailer restroom the contractor is to pothole the sewer and the wall footing and learns the respective elevation information. Then consultation with the selected plumber and electrician may determine the best location to route the utility connection lines.

Compacted granular material shall be used in all utility trench backfill with the exception of the PVC water line.

Section 00120-Bidding Requirements and Procedures

Delete This Section and replace with the following:

Clackamas County Parks and Forest is soliciting price quotations from qualified general contractors experienced with Parks and Recreation project related work in the form of a Request for Quotation. The selection criteria are explained in the solicitation.

Section 00130-Award and Execution of Contract

Comply with this Section as modified as follows:

00130.10 Award of Contract. If County Parks and Forest accepts a quotation and awards a contract, the County will send the successful bidder written notice of acceptance and award and three copies of the contact booklet ready for execution. The documents will be sent within thirty day of Notice of Intent to Award or within the number of calendar days specified in the contract. The County will have complied with this time limit if, within the number of days specified, the notice of acceptance and Contract Booklet copies are delivered through U.S. Post Office.

00130.40 Contract Bonds, Certificates, and Registrations – Delete and replaced with the following:

Terms of the Agreement cover this provision.

00170.70 Insurance- Delete and replace with the following:

Terms of the Agreement cover this provision.

00170.72 Indemnity/Hold Harmless- Add the following to the end of this subsection:

1 Clackamas County and its officers, agents and employees

2 Clackamas County Board of Commissioners

Section 00195-Payment

00195.50 Progress Payments and Retained Amounts- Modify as follows:

00195.50(a) Progress Payments – Modify as follows:

(1) Progress Estimates – Replace the first sentence with the following:

At a regular period each month to be determined at the Preconstruction Meeting, the contractor will make an estimate of the amount and value of pay item work completed and in place. This estimate will be submitted to the County project manager for approval and once approved will be submitted for prompt payment processing.

00195.50(b) Retainage – Replace this subsection with the following:

The amount to be retained from progress payments will be 5.0 % of the value of all Work accomplished, and will be retained by the County in an interest bearing account until project completion.

Section 00280 – Payment

00280.00 Scope – Add the following:

Once the contractor is issued a Notice to Proceed, the contractor shall take over Erosion Control responsibilities for the site. Orange silt fence shall be used.

This work shall also include the construction of an appropriate concrete wash area to clean out concrete tucks and related equipment after placing concrete. Coordinate with the Park Ranger on location for the approved location of the concrete wash area. Upon completion of the concrete work for the project, remove excess concrete and dispose in an approved manner and backfill any remaining depression with approved material.

Section 00310-Removal of Structures and Obstructions

Comply with Section 00310 of the Standard specification supplemented as follows:

00310.95 Scope – Add the following:

This work includes the careful removal and proper disposal or repurposing of the trailer mobile restroom. It is to become Contractor's Property.

Site alterations are necessary to accommodate the low-boy trailer delivery of the CXT Restroom and the related large mobile crane. It will be necessary to remove of approximately 180 ft. bracket mounted wooden parking stops, one chain gate post and placing temporary protective steel plate on the existing water service vault. These work items will be paid for under the Force Account allowance.

Section 00330-Earthwork

Comply with Section 00330 of the Standard specification supplemented as follows:

00330.00 Scope - Add the following:

This work includes the excavation, then the placement of a 19-inch thick section of $\frac{3}{4}$ "-0 crushed aggregate building a compacted pad in the building footprint and perimeter sidewalk area. Mechanical compaction efforts are required. 95% material compaction must be achieved under all concrete areas. This work shall be visually inspected and approved by the owner.

Access to the above mentioned compacted pad by the large mobile crane is necessary and the placement of the fill slope on the north side of the restroom must be delayed until the building delivery is made. The near

level, existing grade must be remain un-altered and maintained for the crane to occupy the area.

Subsequent to the building arrival then the fill slope may be placed.

Some close tolerance soil re-grading and handwork should be expected following the building placement and before the subsequent sidewalk construction is formed and poured.

All suitable excavated native soil material shall be saved and stockpiled on site and subsequently placed in a top 6" thick lift to bring fill slope grades to design finish grade following the placement of the sidewalks. Only if the native soil is not be suited or if insufficient quantities are available from the excavation work then imported topsoil must be delivered to the site and placed to provide a 6" thick lift of suitable soil at finish design grade. Any and all imported topsoil and the respective haul and placement of the imported topsoil shall be paid under the contract Force Work Allowance.

Do not place topsoil or native soil materials on the site until approval by the Owner has been obtained.

Clearing and Grubbing, Excavation, and Fine Grading shall be bid on a Lump Sum basis. Use of the native material to form and place the top 6" lift of soil shall be considered incidental to this Lump Sum.

Section 00445 – Sanitary, Storm, Culvert, Siphon and Irrigation Pipe

Comply with Section 00445 as modified as follows:

00445.11(e) Tracer Wire – Replace this subsection, except for the heading, with the following:

Use green 12-gauge stranded or solid copper insulated high molecular weight polyethylene (HMW-PE) tracer wire on the entire sanitary system.

00445.72 Pipe Testing - Add the following:

All testing for sanitary sewer installations shall conform to the requirements of Clackamas County Water Environmental Services - Soils Division and the Clackamas County Building Codes Division and hydrostatic pressure testing as setout in Section 00976.20.

All testing of the water supply installation shall conform to the requirements of the Clackamas County Building Codes Division.

All testing shall be considered incidental to the Lump Sum bid work.

Add the following section:

Section 00641 – Aggregate Subbase, Base and Shoulders

Comply with Section 00641 Standard Specification supplemented as follows:

Locally sourced ¾"-0" size crushed aggregate meeting current ODOT standards shall be used under all concrete covered areas.

All supplied rock must cross a certified weigh scales and be accompanied with a weight ticket. The contractor shall submit the accumulated tickets to the owner at the time of submitting any progress pay estimate to receive credit and full payment at the Per Ton bid price.

All necessary compaction work and watering to achieve specified density shall be considered incidental to the work covered in Section 00330.

Section 00759 – Miscellaneous Portland Cement Concrete Structures

Comply with Section 00759 of the Standard Specifications supplemented and or modified as follows:

00759.12 Sidewalk Ramp Treatment – Supply truncated dome detectable warning surfaces for sidewalk connection to the existing parking area. Truncated dome plastic panels shall be yellow 24"x 48" in size placed in accordance with the manufacture's recommendations.

The contractor is to design and construct a Building Codes compliant set of stair steps connecting the new sidewalk work with the saved section of existing sidewalk at the south side of the building.

Section 00975 – Site Electrical

Section 975, which is not a Standard Specification, is included in the Project by Special Provision.

00975.10 General – This Section contains all electrical work for the project that must comply with all applicable Electrical Specialty Codes.

00975.20 – All work is to be compliant with current Electrical Specialty Code.

The electrician is to determine electrical load, the correct electrical load centers or meter boxes required for outdoor use, all pull boxes as required, below floor and underground conduit and wire, the sizes of all conduits and types and wire sizes needed in the construction of an underground electrical service and connection into the new CXT restroom building. Additionally the electrician shall determine the best means to re-connect the electrical service to the Park irrigation pump and to the near by covered pick nick pavilion tent.

The electrician is to prepare and submit a proposed material listing for County Parks review and approval before ordering materials.

The electrician must coordinate with Portland General Electric for the temporary termination and re-connection of primary power. Also this work includes the establishment of an appropriate treated pole to place the renewed electrical service on. PGE has been

notified of the need to replace the present pole mounted meter base and to re-establish the new, electrician provided treated pole and exterior components to accommodate the renewed electrical service. The electrician must provide notice to PGE and to advise when to commence with their related work.

The electrician is to sequence all work providing for inspection and approvals from the Clackamas County Building Services Electrical Division.

The electrician is to coordinate with the general contractor for the needed trenching and backfilling. No backfill of the trenches by the general contractor shall occur prior to Electrical Division inspection and approval.

At the conclusion of all the electrical work the new power service, resumed service to the park irrigation pump shall be thoroughly tested, inspected and approved again by the Electrical Division in a Building Final Inspection.

Section 00977 – Site Plumbing

Section 977, which is not a Standard Specification, is included in the Project by Special Provision.

00977.10 General – This Section contains all plumbing work for the project that must comply with all applicable Plumbing Specialty Codes.

00977.20 – All work is to be compliant with current Plumbing Specialty Code.

The plumber is to determine fixture unit demand, the correct pipe sizes and gradients and all types of waste and water lines and materials and fittings needed in the development and construction of an upgraded, underground water service and a waste water line from the new CXT restroom building connecting to the existing septic system. A copper supply line with brass isolations valves with a currently tested back flow preventer and ground box are required. There is presently a PVC water line crossing the park near the north side of the new building location that will provide a connection point for the potable water supply.

The plumber is to follow the CXT Floor Drain Location & Below Floor Piping plan as detailed on CXT Drawing (S-37) and construct the below floor plumbing in preparation for the placement of the CXT precast concrete restroom.

The plumber is to further determine fixture unit demand for the new restroom referring to the full set of CXT plans and correctly size the domestic water supply line and then install this line pursuant to Notes #5 and #7.

Depending upon these determinations, the 4-inch waste water line and 4" clean outs are to be run at the correct slope pursuant to Notes #1 and #6 and then connect into the existing septic tank.

The plumber is to sequence all work providing for static water testing, inspections and approvals from the Clackamas County Building Services Plumbing Division.

The plumber is to prepare and submit a proposed material listing for County Parks review and approval before ordering materials.

The plumber is to sequence all work providing for inspection and approvals from the Clackamas County Building Services Plumbing Division.

The plumber is to coordinate with the general contractor the needed trenching and backfilling for all lines. No backfill of the trenches by the general contractor shall occur prior to testing and the Plumbing Division inspection and approval.

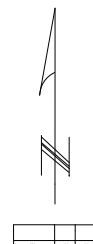
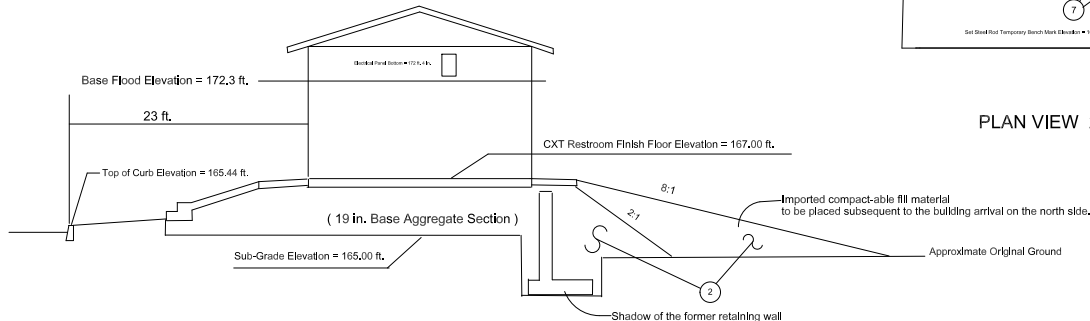
At the conclusion of all the plumbing work the new services shall be thoroughly tested, inspected and approved again by the Plumbing Division in a Building Final Inspection.

At the conclusion of all the below floor piping and the subsequent placement of the CXT restroom, CXT installers will be providing all the labor, equipment and materials necessary to tie the below floor plumbing work to the new building. At that time all services shall be thoroughly tested, inspected and approved again by the Plumbing Division in a Building Final Inspection.

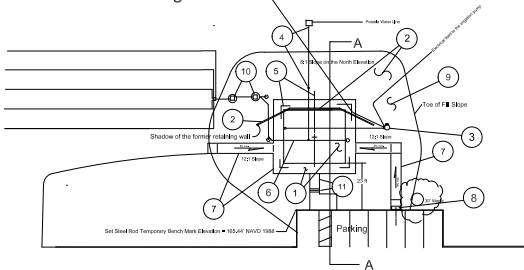
Construction Notes

- Excavate to a uniform sub-grade 2 ft. Below the CXT building finish floor grade. Then place and compact a 19 in. Thick 3/4"-0 crushed aggregate pad beneath the building and sidewalk allowing subsequent trenching for the below floor plumbing.
- Trim the wall demolition excavation and backfill with multiple lifts of compacted 3/4"-0 crushed aggregate at a 2:1 slope. Import the needed quantity of compact-able fill material and build the perimeter slopes at 90% density. Stage and sequence the fill placement on the north side subsequent to the arrival of the building.
- Coordinate with PGE to cut power and to set a new treated pole. Install a new meter base and load center, Intercept and connect lines to the Pavilion Tent and Irrigation pump and light. Run a below floor conduit for the subsequent placement of the 100-amp service connection into the building panel.
- Tee into the existing Park potable water line then extend a PVC 2 in. line to a location where an isolation valve and back flow preventer may be placed. From there extend the water line using 2 In. Copper below the floor. The copper line is to terminate above the floor grade at the plan specified location.
- Use the retaining wall reference marks and the Parking curb to determine and index the precise CXT building location and set and save the construction batter boards.
- Follow the CXT Floor Drain Location and Below Floor Plumbing Plan as detailed on the CXT Drawing S-37 and construct the below floor plumbing.
- Construct 5 ft. wide concrete perimeter sidewalks and ADA compatible ramps and landings not exceeding 8% longitudinal grade. Place one ADA truncated dome panel.
- Reconstruct the Parking curb with an ADA compliant curb ramp centered on the third stall.
- At the conclusion of the the of the work, fine grade and hydro seed all slopes.
- Place 2-24in. Plastic risers with lids and adjust the height of each to match the sloping soil grade.
- Construct a stair way and connecting 5 ft. sidewalk.

SECTION A-A (not to scale)



Picnic Area 6 Parking Area



Clackamas County Parks & Forest
Barton Park CXT Restroom Project at 19009 SE Barton Park Road, Boring, OR
Construction Plan
8/15/18

Existing Conditions and Demolition Plan

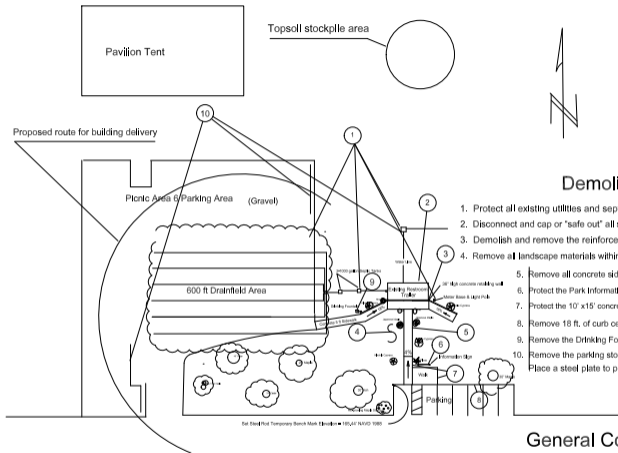
8/15/16

Demolition Notes

1. Protect all existing utilities and septic system improvements.
2. Disconnect and cap or "safe out" all services then remove the Trailer Restroom as specified.
3. Demolish and remove the reinforced concrete retaining wall.
4. Remove all landscape materials within the toe of fill perimeter and strip and stockpile reusable topsoil.
5. Remove all concrete sidewalk along the retaining wall and to the parking.
6. Protect the Park Information Sign.
7. Protect the 10' x 15' concrete slab and the 1st sidewalk section.
8. Remove 18 ft. of curb centered on the 3rd parking stall.
9. Remove the Drinking Fountain for County salvage and reuse.
10. Remove the parking stops cutting flush the steel brackets then stock pile the timbers. Place a steel plate to protect the existing water vault.

General Construction Note

The reinforced retaining wall footing depth and size are unknown.
This wall location is used to position the new restroom building and the contractor must reference and save this information before demolition in order to accurately set the batter boards.

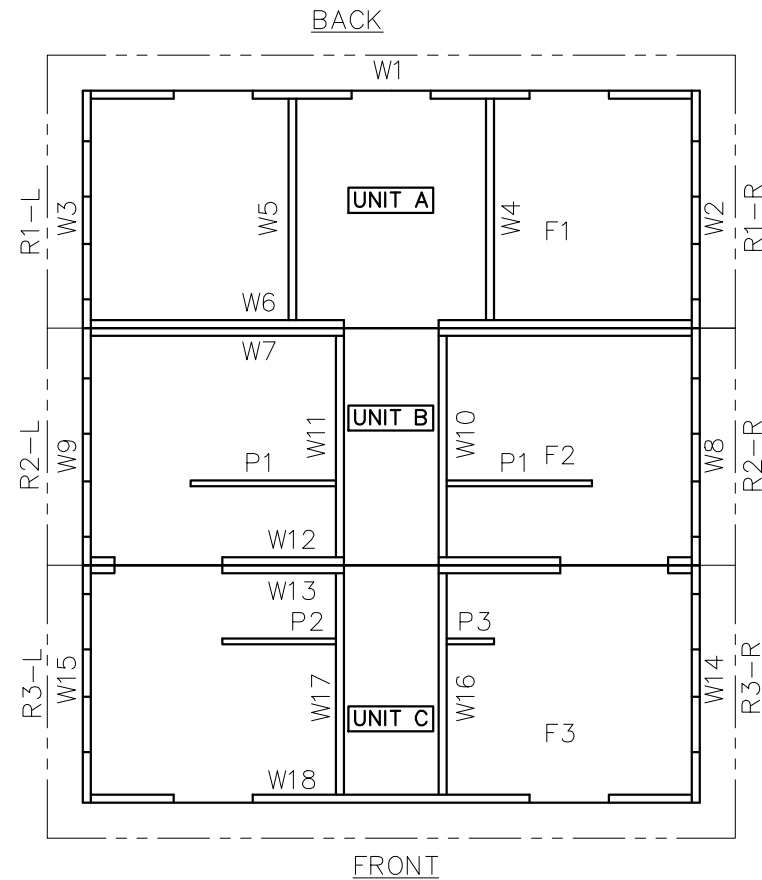


SANTIAGO

PANEL MARK NO. KEY PLAN

NOTES

- BUILDING IS DESIGNED TO COMPLY TO WITH THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC).
- DESIGN COMPLIES WITH THE PROVISIONS OF THE 2014 OSSC FOR THE FOLLOWING LOADS:
GROUND SNOW LOAD = 175 PSF
FLOOR LIVE LOAD = 400 PSF
IBC DESIGN SPECTRAL RESPONSE $S_S = 1.342$, $S_1 = 1.068$
SITE CLASS D
SEISMIC USE GROUP: II
SEISMIC DESIGN CATEGORY: E
BEARING WALL SYSTEM $R = 4.0$
A5 - INTERMEDIATE PRECAST SHEARWALLS
BASIC WIND SPEED = 150 MPH (3-SECOND GUST),
WIND EXPOSURE C, $I = 1.0$
- CONSTRUCTION TYPE: V-B
OCCUPANCY: U
EXTERIOR WALLS: 1-HR RATED PER IBC TABLE 721.1(2), ITEM 4-1.1
MINIMUM FIRE SEPARATION DISTANCE: 10 FEET
- CONCRETE STRENGTH $f'_{ci} = 2500$ PSI INITIAL $f'_{c} = 5000$ PSI FINAL AIR ENTRAINMENT $6\% \pm 1\ 1/2\%$ IN PLASTIC CONCRETE. REINFORCING STEEL: GRADE 60 $F_y = 60$ KSI MINIMUM LAP 18" AT SPLICES. TIE BARS WITH DOUBLE ANNEALED 16 GA IRON WIRE. REINFORCING TO BE PLACED IN CENTER OF PANEL UNO. ALL BEND IN REINFORCING SHALL HAVE A MINIMUM RADIUS OF 6x THE BAR DIAMETER. WELDED WIRE FABRIC (W.W.F.): 4x4xW8xW8, $F_y=65$ KSI (OR EQUIVAL). COMPLY WITH ASTM A82, SMOOTH WIRE, MIN. LAP 2 SQUARES.
- EMBEDDED ITEMS IDENTIFIED ON DRAWINGS(i.e. PS-2, R301) REFER TO CXT STANDARD EMBEDMENT CATALOG.
- BACK OF PANELS TO HAVE SMOOTH TROWEL FINISH U.N.O. ALL SURFACES TO BE TEXTURED ARE NOTED ON PANEL DWG'S
- REFER TO SEPARATE CXT INCORPORATED SPECIFICATIONS COVERING DESIGN, MATERIALS, PRODUCTION, AND INSTALLATION CRITERIA FOR SPECIFIC STYLE OF BUILDING.
- ALL REBAR BENDS TO HAVE A MINIMUM RADIUS OF 6x THE BAR DIAMETER.
- NO HEATING PROVIDED, "SUMMER USE ONLY"
- INSTALLATION TO MEET APPLICABLE FEDERAL, STATE, AND LOCAL CODES BY OTHERS.
- ADEQUATE PLUMBING FACILITIES TO BE PROVIDED ON SITE BY OTHERS.



APPLICABLE CODES

2014 OREGON STRUCTURAL SPECIALTY CODE (2012 IBC)
2014 OREGON PLUMBING SPECIALTY CODE (2009 UPC)
2014 OREGON ELECTRICAL SPECIALTY CODE (2014 NEC)
2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE (2009 IEC)
2014 OREGON MECHANICAL SPECIALTY CODE (2012 IMC)

SPECIAL CONDITIONS AND/OR LIMITATIONS

ACCESSIBILITY TO THIS BUILDING, INCLUDING PARKING IS TO BE PROVIDED BY OTHERS AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL BUILDING CODES.

INDEX OF DRAWINGS

NO.	TITLE
S-01	COVER SHEET
S-02	HANDLING INSTRUCTIONS
S-03	FLOOR PLAN
S-04	BUILDING ELEVATIONS
S-05	BUILDING ELEVATIONS
S-06	INTERIOR ELEVATIONS
S-07	DETAILS
S-08	WALL PANEL W1
S-09	WALL PANEL W2
S-10	WALL PANEL W3
S-11	WALL PANEL W4
S-12	WALL PANEL W5
S-13	WALL PANEL W6
S-14	WALL PANEL W7
S-15	WALL PANEL W8
S-16	WALL PANEL W9
S-17	WALL PANEL W10
S-18	WALL PANEL W11
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S-22	WALL PANEL W15
S-23	WALL PANEL W16
S-24	WALL PANEL W17
S-25	WALL PANEL W18
S-26	FLOOR SLAB F1
S-27	FLOOR SLAB F2
S-28	FLOOR SLAB F3
S-29	ROOF SLAB R1-R
S-30	ROOF SLAB R1-L
S-31	ROOF SLAB R2-R
S-32	ROOF SLAB R2-L
S-33	ROOF SLAB R3-R
S-34	ROOF SLAB R3-L
S-35	INTERIOR PARTITIONS P1, P2 & P3
S-36	FOUNDATION DETAIL
S-37	FLOOR DRAIN LOCATIONS & BELOW FLOOR PIPING
S-38	PLUMBING PLAN & DIAGRAMS
S-39	PLUMBING PLAN & DIAGRAMS
S-40	PLUMBING DETAILS, DIAGRAMS & SCHEDULE
S-41	ELECTRICAL NOTES, LEGEND & SCHEDULE
S-42	ELECTRICAL PLAN
S-43	MATERIAL LIST
S-44	MATERIAL LIST

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901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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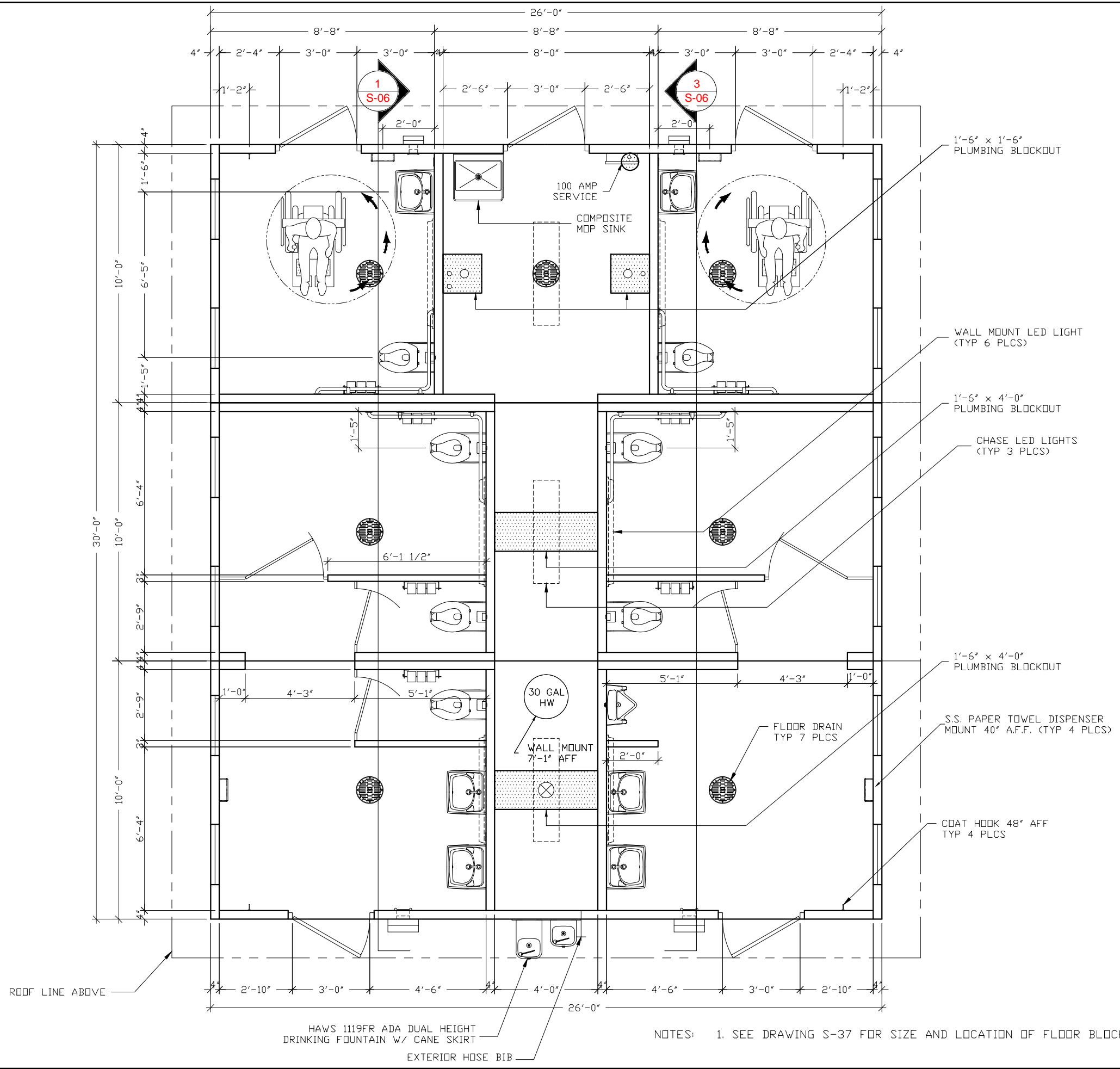
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SCALE	1/8"=1'-0"	DATE	10-6-17
DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	96

DWG NO.	SHEET	REV.
S-01	1	44

CASTING TOLERANCES:
OVERALL LENGTH OR WIDTH 10 FT OR UNDER = $\pm 1/8"$ 10 TO 50 FT = $\pm 1/8"$, -3/16" 20 TO 40 FT = $\pm 1/4"$
TOTAL THICKNESS = -1/8, +1/4
VARIATION FROM SQUARE = $\pm 1/8$ PER 6 FT OF DIAGONAL
LOCAL SMOOTHNESS = 1/4" IN 10 FT
SWEEP = $\pm 1/4"$
POSITION OF TENDONS = $\pm 1/4"$
POSITION OF BLOCKOUTS = $\pm 1/4"$
SIZE OF BLOCKOUTS = $\pm 1/4"$
POSITION OF EMBEDS = $\pm 1/4"$
TIPPING AND FLUSHNESS OF PLATES = +1/16, -1/4
BOWING = LENGTH/360
END SQUARENESS = $\pm 1/8"$
MAXIMUM FINISHED TEXTURE MISALIGNMENT = 1/8"

OREGON STATE TAG & APPROVAL REQUIRED

WALL TEXTURE: BARNWOOD
WALL COLOR: TOASTED ALMOND
ROOF TEXTURE: CEDAR SHAKE
ROOF COLOR: JAVA BROWN
TRIM PAINT: RICH BROWN



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Precast Products
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SANTIAGO
 BUILDING NUMBER S-211

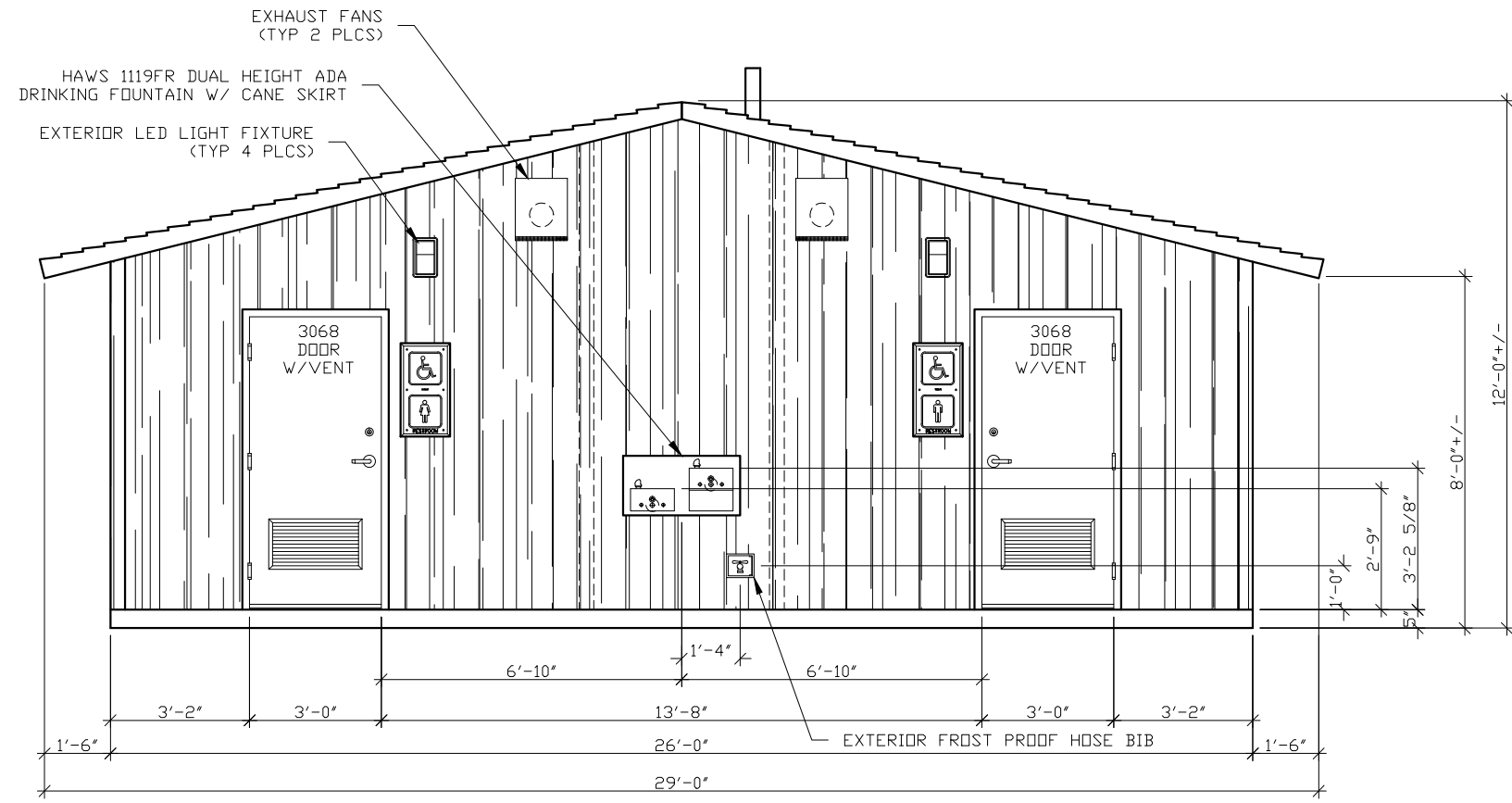
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REV.	DESCRIPTION	APPROVAL	DATE
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DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	48

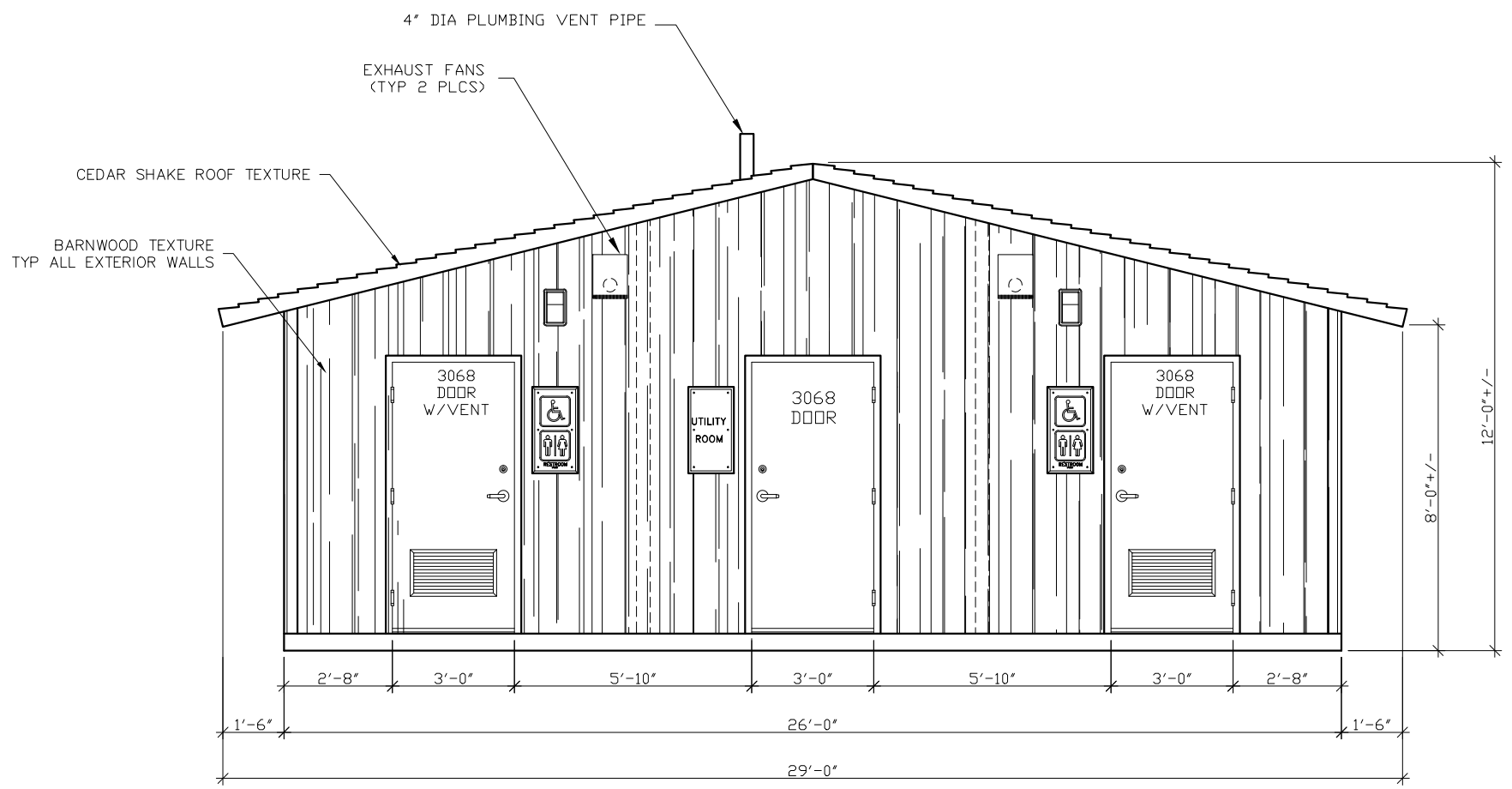
FLOOR PLAN

DWG NO.	SHEET	REV.
S-03	3	44

NOTES: 1. SEE DRAWING S-37 FOR SIZE AND LOCATION OF FLOOR BLOCKOUTS



FRONT (NORTH) ELEVATION



REAR (SOUTH) ELEVATION

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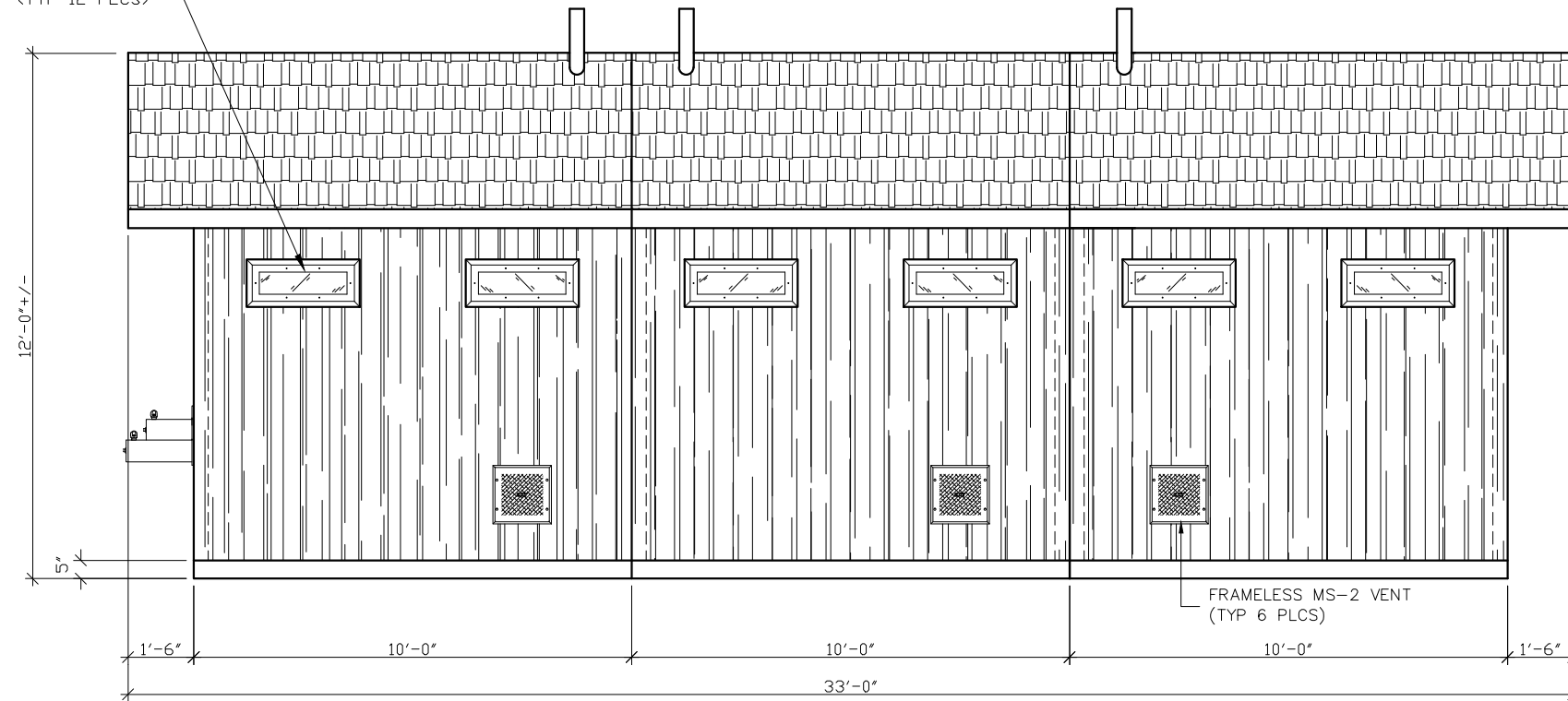
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SCALE	1/4"=1'-0"	DATE	10-6-17
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CHECKED	RDW	PLOT	48

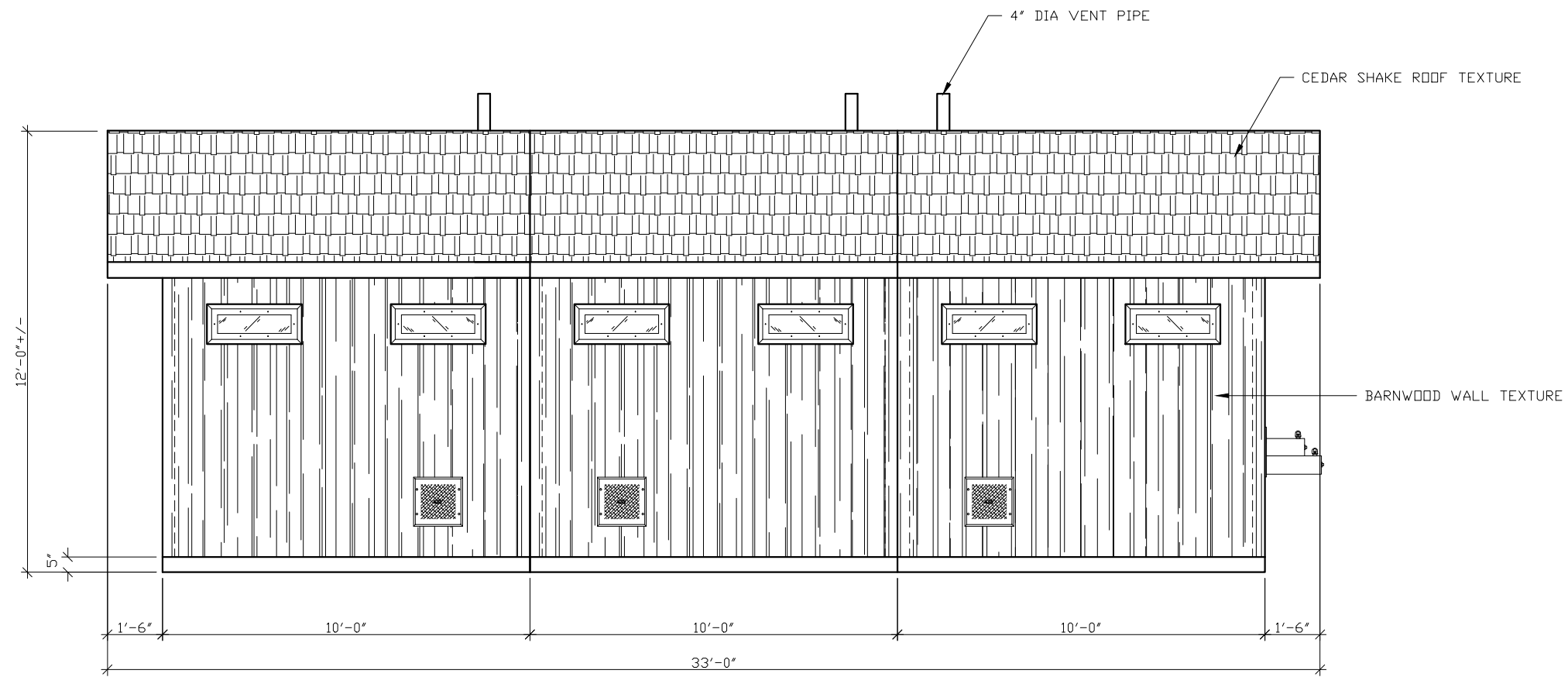
BUILDING ELEVATIONS

DWG NO.	SHEET	REV.
S-04	4	44

2'-4"x10" LEXAN WINDOWS
(TYP 12 PLCS)



RH SIDE (WEST) ELEVATION



LH SIDE (EAST) ELEVATION

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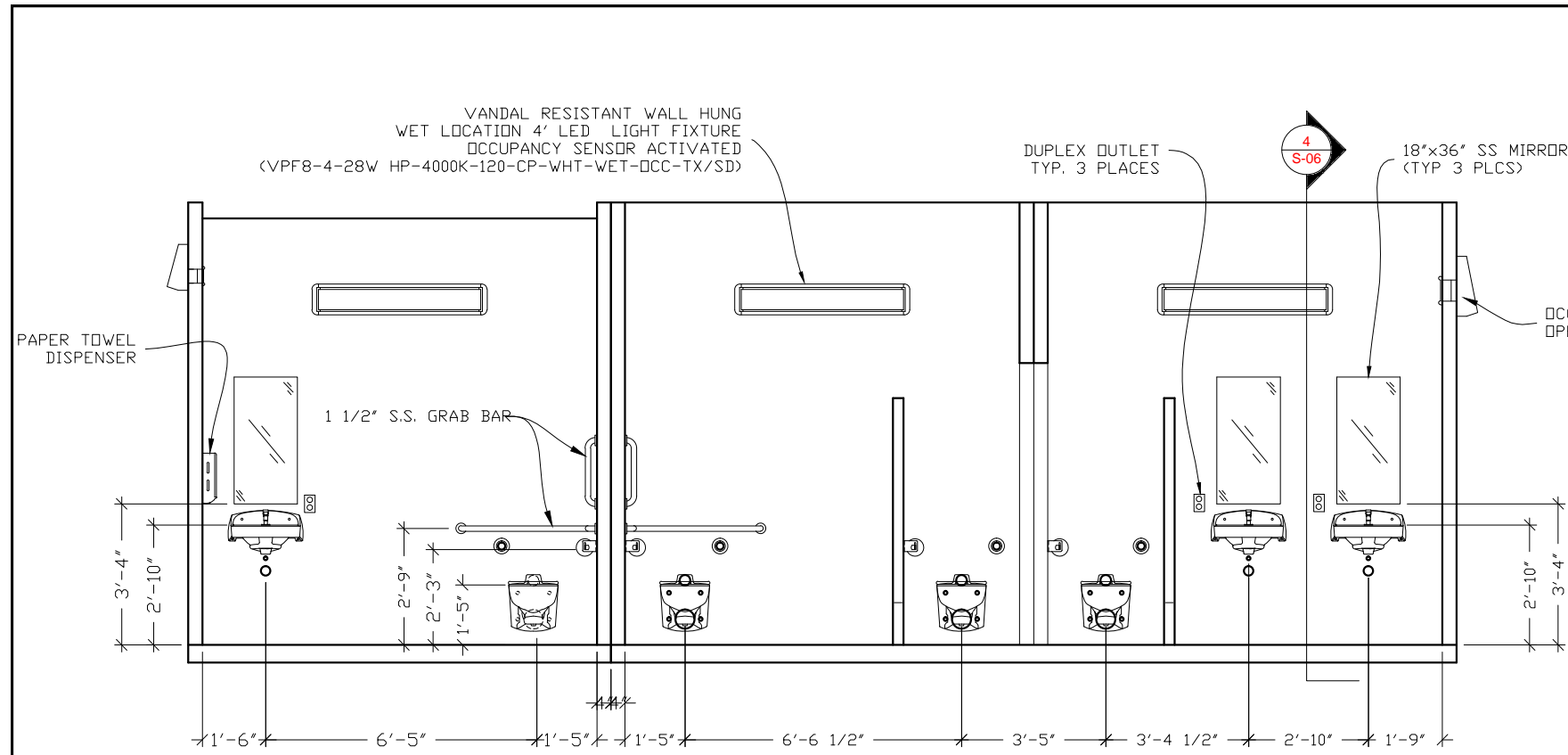
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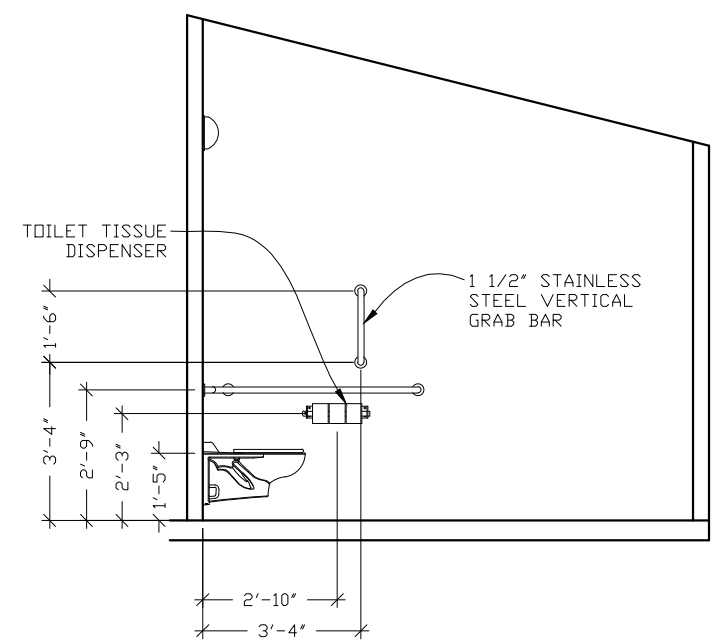
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SCALE	1/4"=1'-0"	DATE	10-6-17
DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	48

BUILDING ELEVATIONS

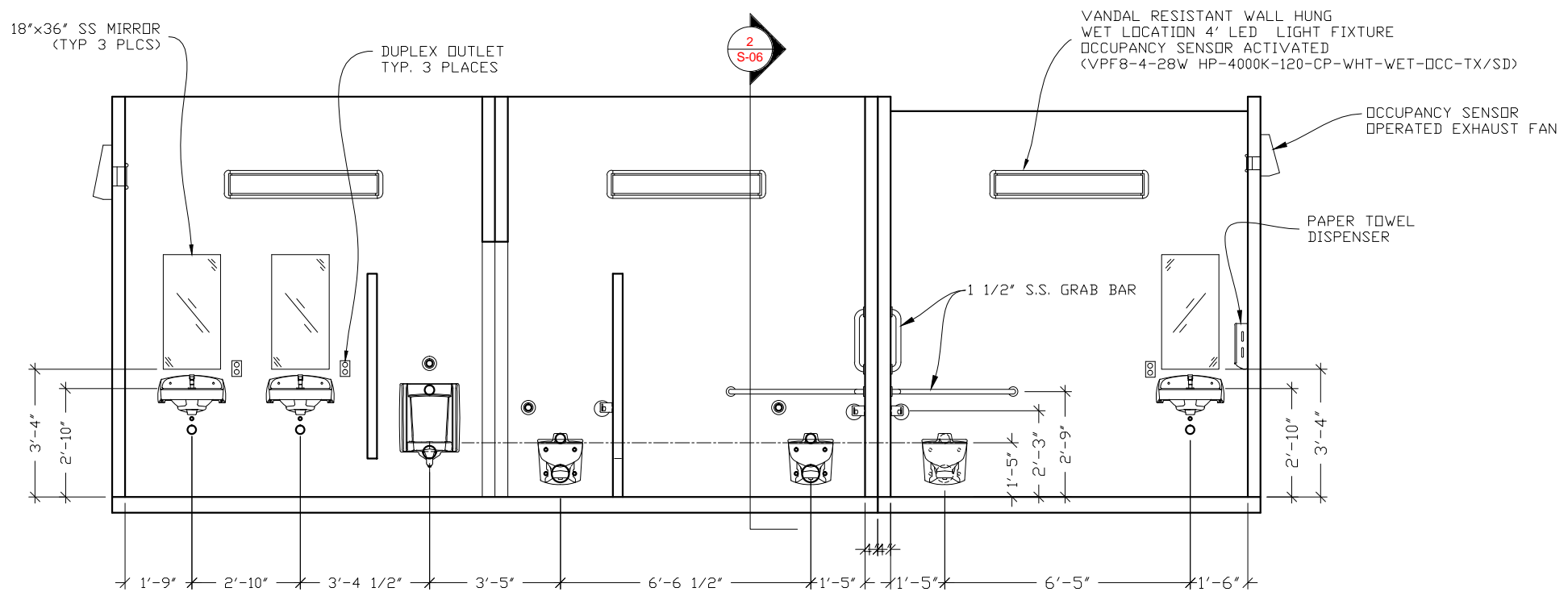
DWG NO.	S-05	SHEET	5	REV.	44
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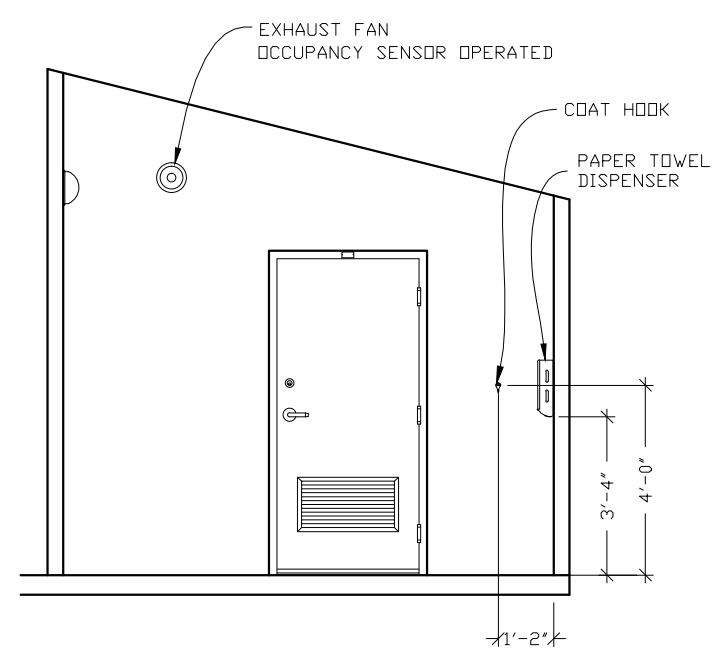
1 INTERIOR ELEVATION - WOMENS SIDE & FAMILY RR



2 INTERIOR ELEVATION - MENS SIDE



3 INTERIOR ELEVATION - MENS SIDE & FAMILY RR



4 INTERIOR ELEVATION - WOMENS SIDE

NOTES: 1. SEE DRAWING S-37 FOR SIZE AND LOCATION OF FLOOR BLOCKOUTS

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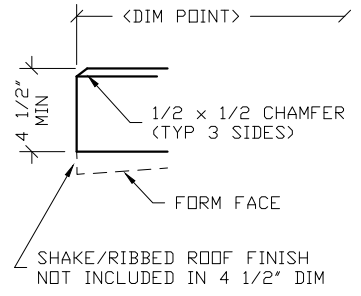
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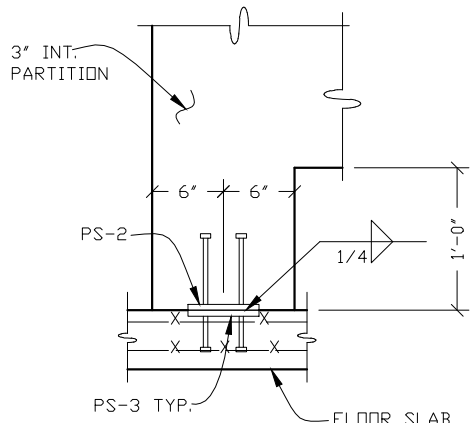
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4"=1'-0"		10-6-17
DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	48

INTERIOR ELEVATIONS

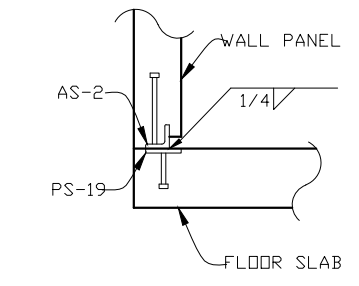
DWG NO.	S-06	SHEET	6	REV.	
			44		



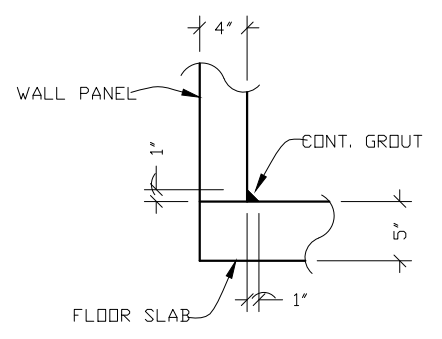
1 TYPICAL ROOF SLAB EDGE



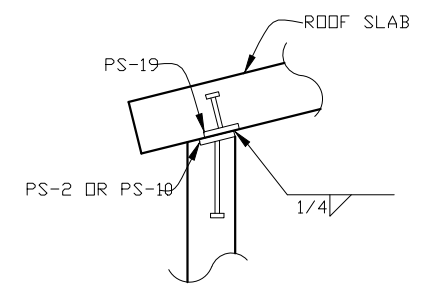
2 INT. PARTITION BASE CONNECTION



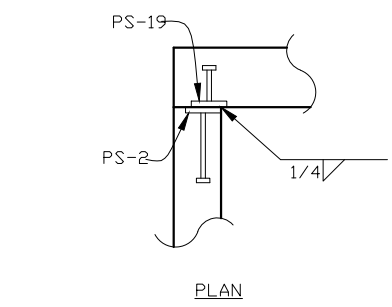
3 TYP. WALL TO FLOOR SLAB WELDED CONNECTION



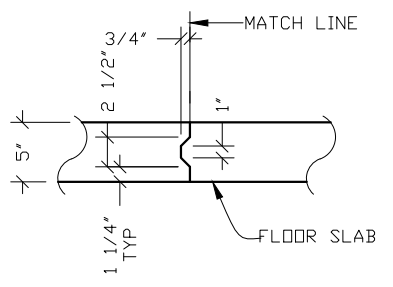
4 TYP. WALL TO FLOOR SLAB JOINT DETAIL



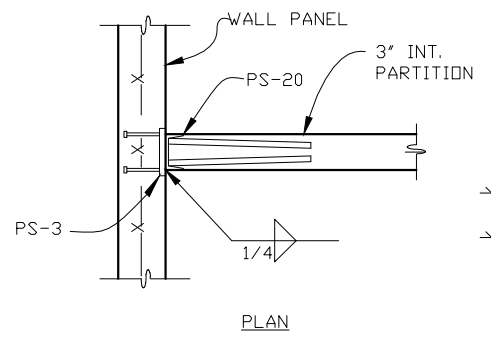
5 TYP. WALL TO ROOF SLAB WELDED CONNECTION



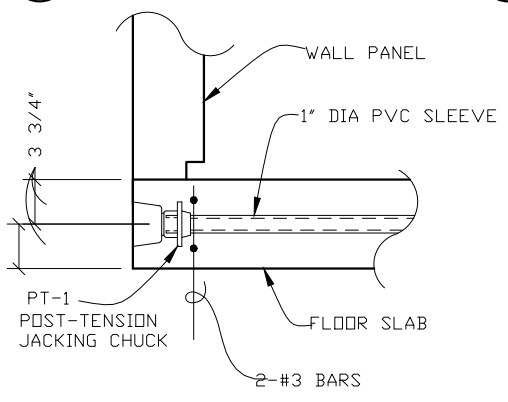
6 TYP. WALL TO WALL PANEL WELDED CONNECTION



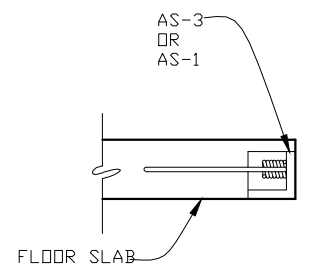
7 KEYED FLOOR & ROOF SLAB DETAIL



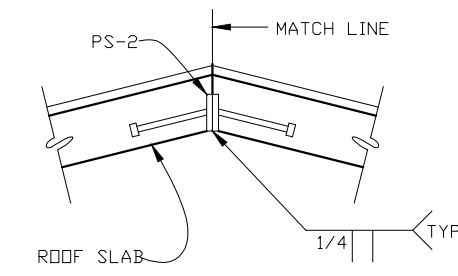
8 TYP. INTERIOR PARTITION TO WALL CONNECTION



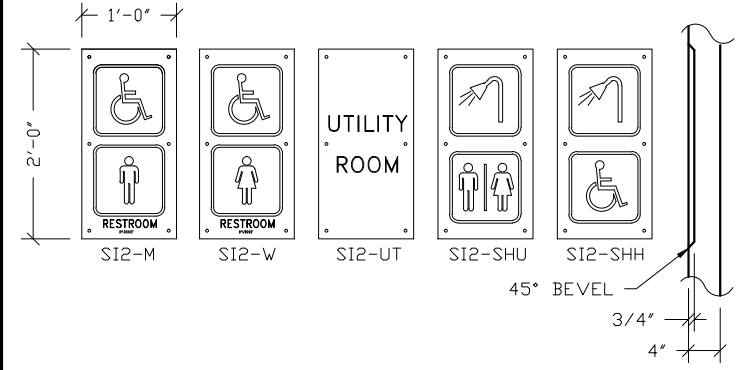
9 POST TENSION CABLE DETAIL



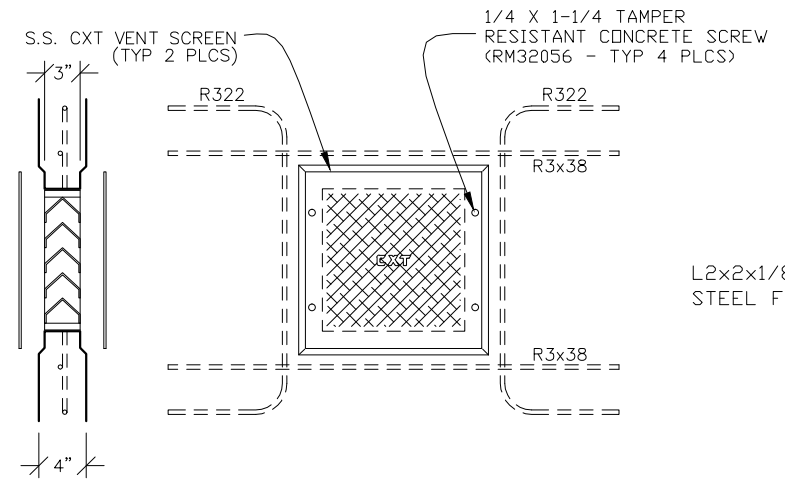
10 FLOOR LIFT PLATE DETAIL



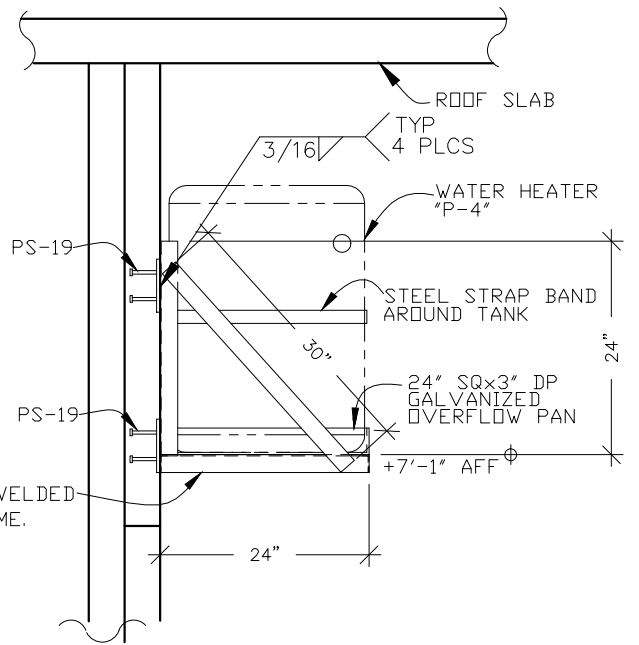
11 ROOF PEAK WELDMENT DETAIL



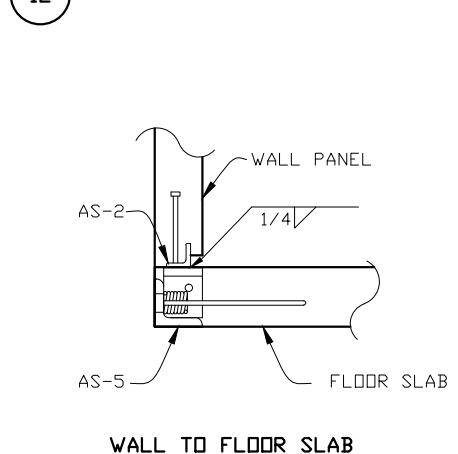
12 SIGN SI-2 DETAIL



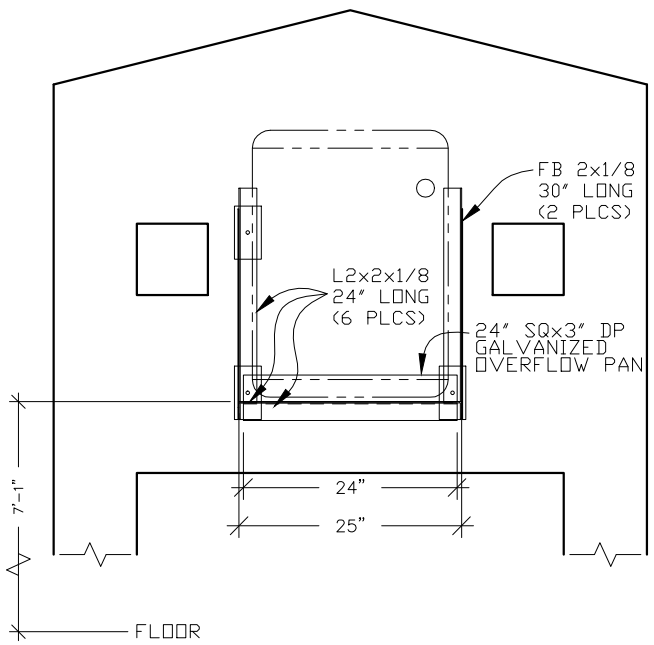
15 STANDARD FRAMELESS MS-2 WALL VENT DETAIL



14 WALL MOUNTED WATER HEATER SUPPORT



13 WALL TO FLOOR SLAB WELDED CONNECTION



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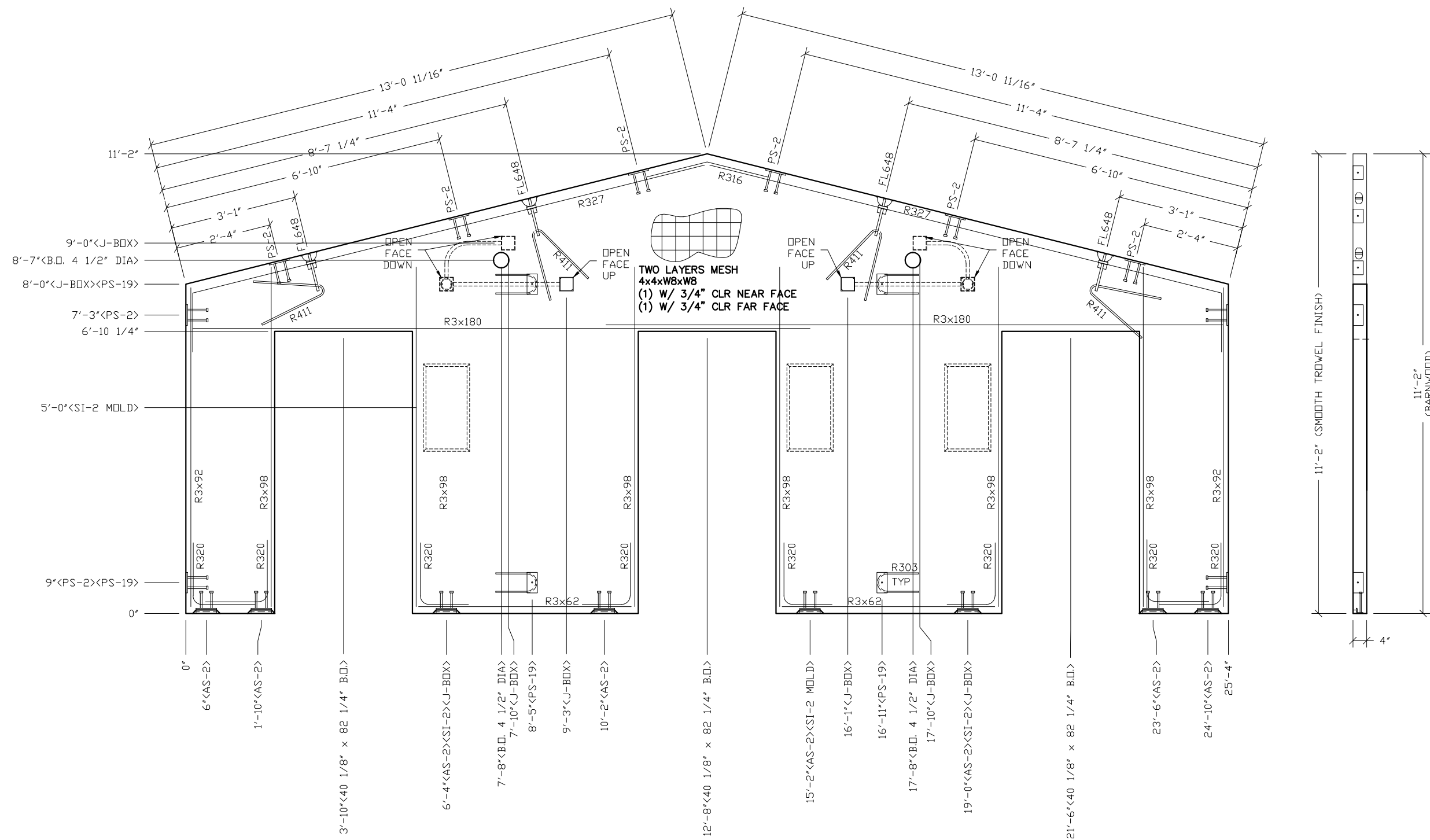
3808 N. Sullivan Bldg. #7 Spokane, WA 99216
CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/4"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLLOT	16

DETAILS
DWG NO. S-07 SHEET 7 REV. 44



TWO LAYERS MESH
4x4xWBxWB
(1) W/ 3/4" CLR NEAR FACE
(1) W/ 3/4" CLR FAR FACE

- NOTES:
1. WALL THICKNESS = 4"
 2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	8
PS-2	10
PS-19	4
FL-648	4
R411	4
R303	4
R327	2
R3x92	4
R3x98	12
R316	1
R3x180	4
R3x62	4
R320	16
SI-2 MOLD	3
4x4 J-BOX	6
B.O. 4 1/2" DIA	2
40 1/8" x 82 1/4" BLOCKOUT	3
ROUND MUD RING	2

CU. FT. CONC.	SQ. FT. W.W.F.
58.0 (2.15)	348

APPROXIMATE WEIGHT
8,701

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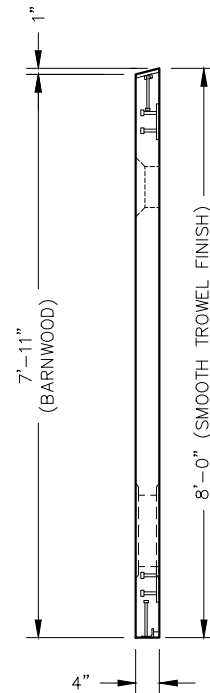
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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PL0T	32

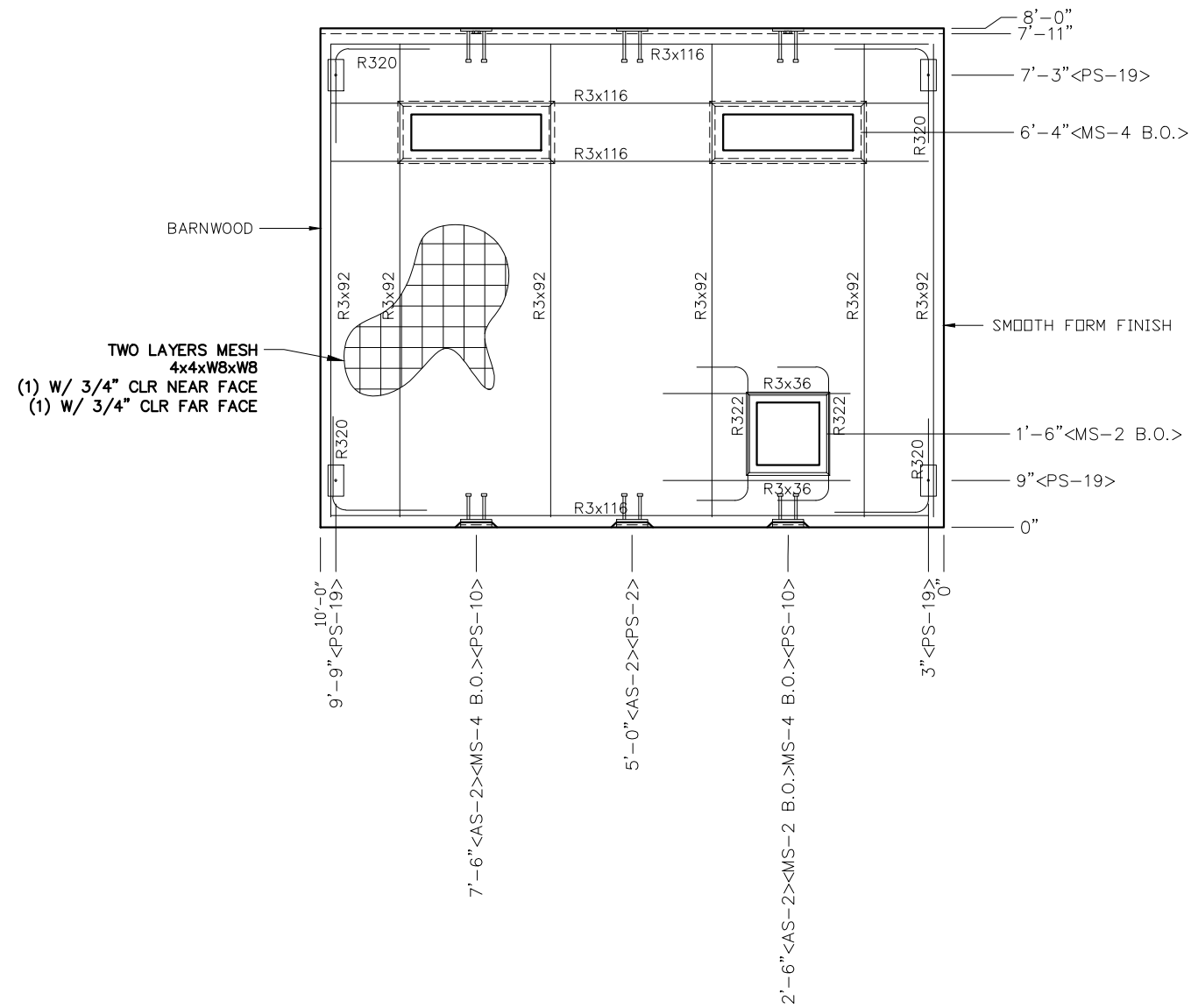
WALL PANEL
MARK W1

DWG NO. S-08 SHEET 8 REV. 44



TWO LAYERS MESH
4x4xW8xW8
(1) W/ 3/4" CLR NEAR FACE
(1) W/ 3/4" CLR FAR FACE

BARNWOOD



NOTES:

1. WALL THICKNESS = 4"
2. EXCEPT R322 & R3x36, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER. ALL OTHER REBAR IS TO BE CENTERED IN PANEL

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-2	1
PS-10	2
PS-19	4
R320	8
R3x92	12
R3x116	8
R3x36	2
R322	2
MS-4 B.O.	1
MS-2 B.O.	1

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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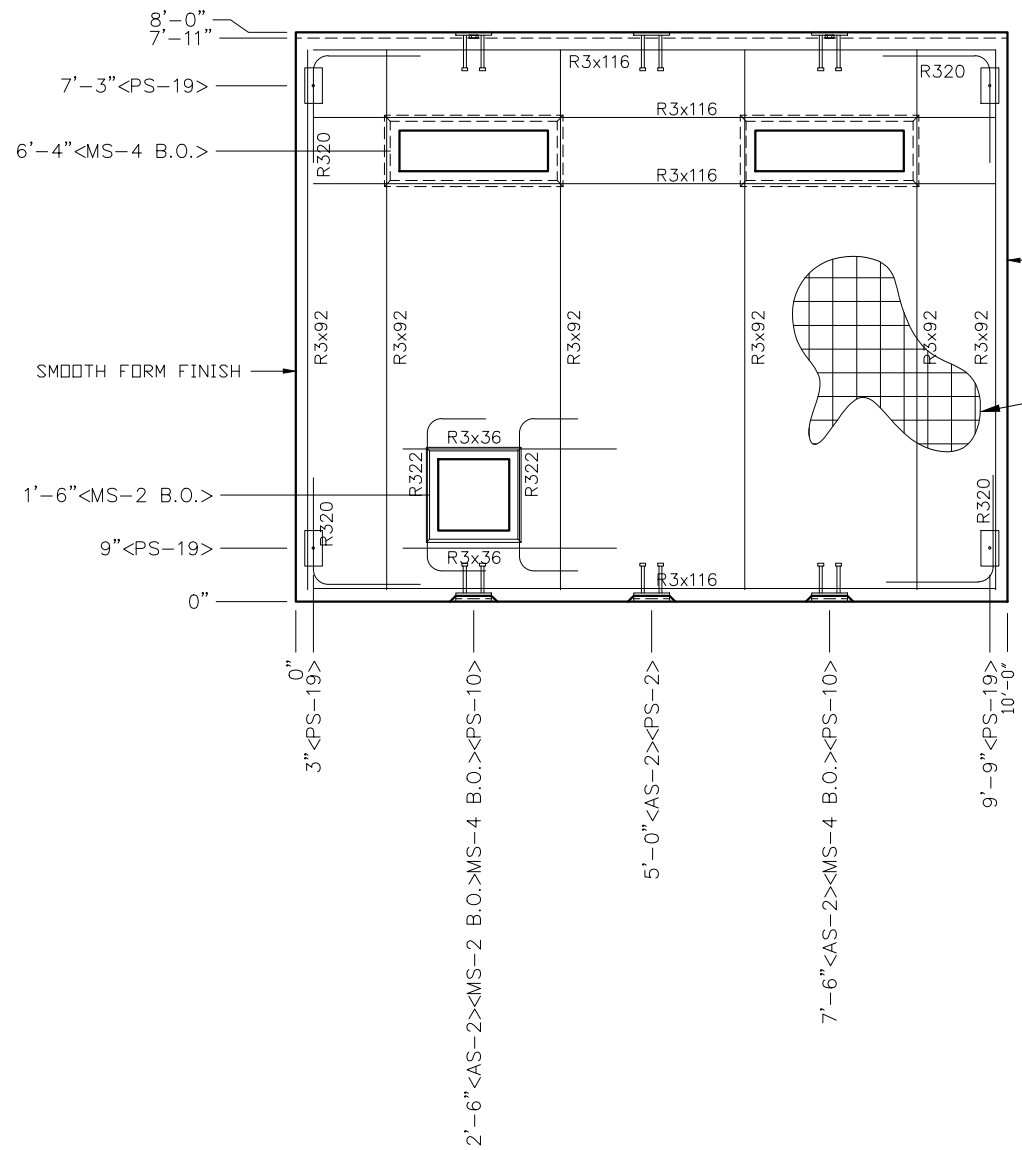
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

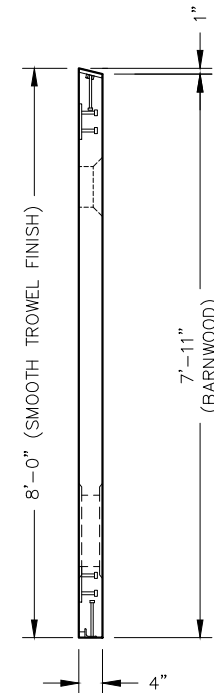
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL MARK W2		
DWG NO.	SHEET	REV.
S-09	9	44



TWO LAYERS MESH
4x4xW8xW8
(1) W/ 3/4" CLR NEAR FACE
(1) W/ 3/4" CLR FAR FACE



NOTES:

1. WALL THICKNESS = 4"
2. EXCEPT R322 & R3x36, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER. ALL OTHER REBAR IS TO BE CENTERED IN PANEL

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-2	1
PS-10	2
PS-19	4
R320	8
R3x92	12
R3x116	8
R3x36	2
R322	2
MS-4 B.O.	1
MS-2 B.O.	1

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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CXT Precast Products

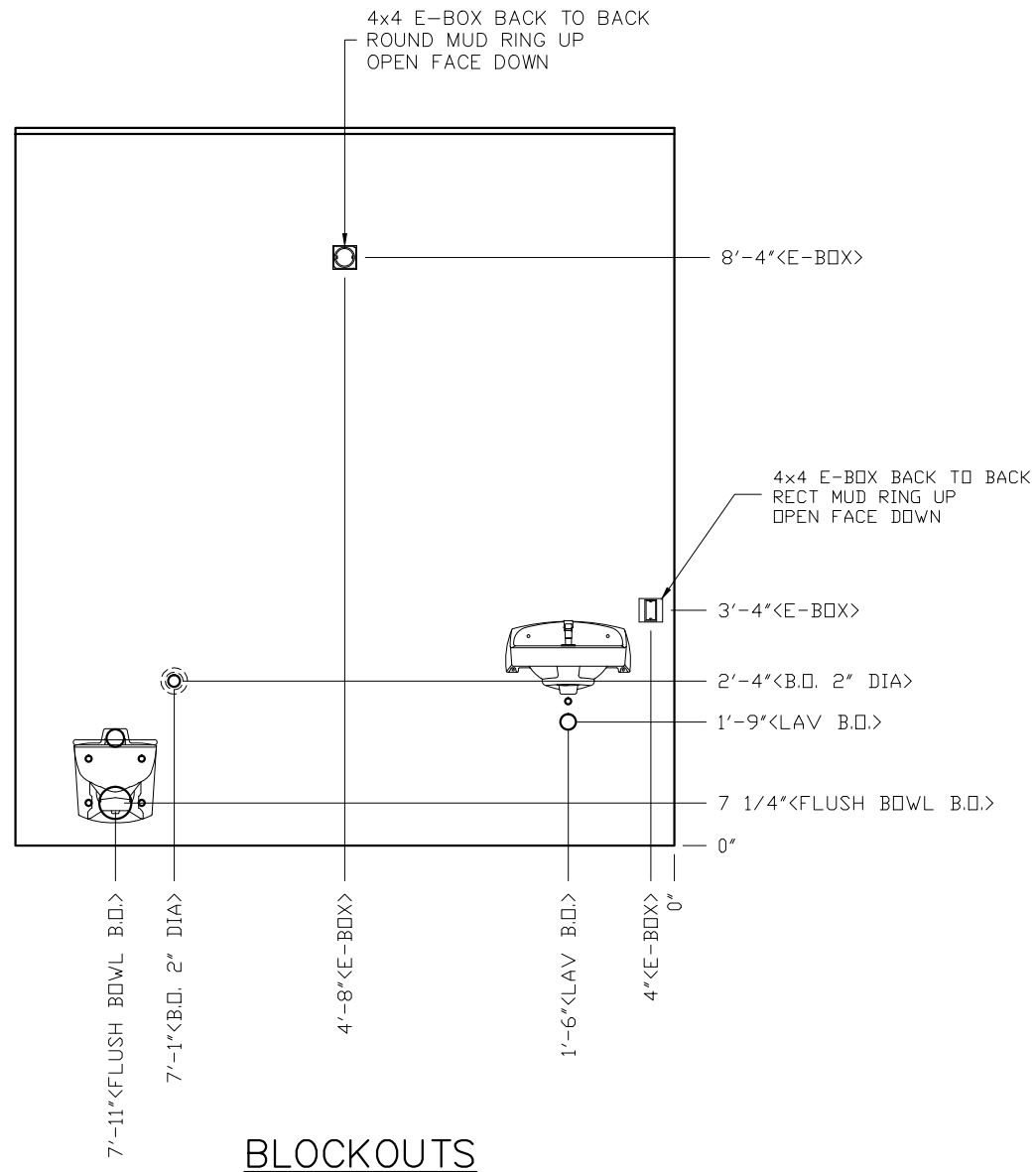
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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

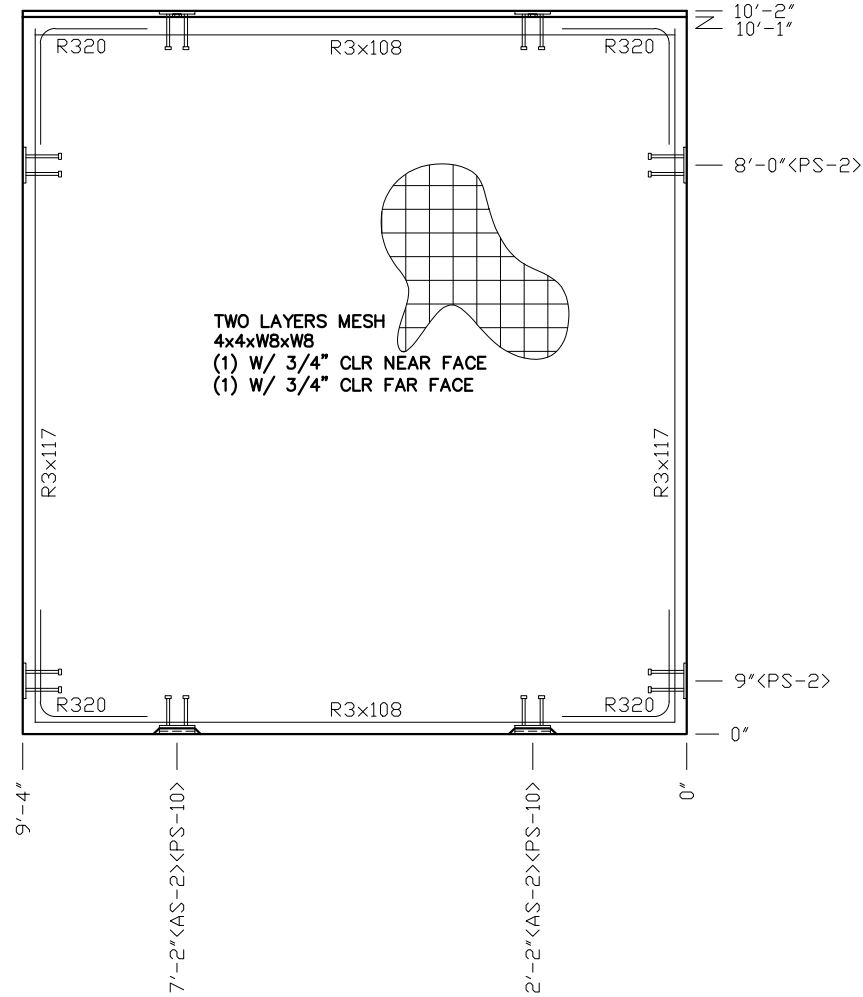
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

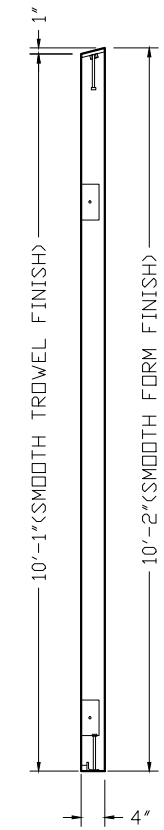
WALL PANEL MARK W3		
DWG NO. S-10	SHEET 10 44	REV.



BLOCKOUTS



EMBEDS



EMBEDDED MATERIALS	
ITEM	QTY
AS-2	2
PS-10	2
PS-2	4
R320	8
R3x117	4
R3x108	4
FLUSH BOWL B.O.	1
LAV B.O.	1
4x4 E-BOX	4
RECT MUD RING	1
ROUND MUD RING	1
BLOCKOUT 2" DIA	1

CU. FT. CONC.	SQ. FT. W.W.F.
31.5 (1.17)	188

APPROXIMATE WEIGHT
4,725

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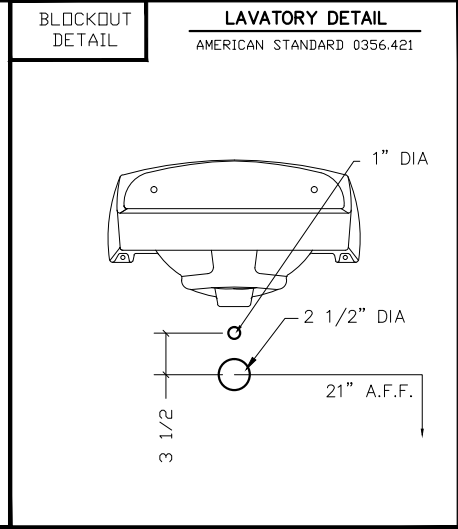
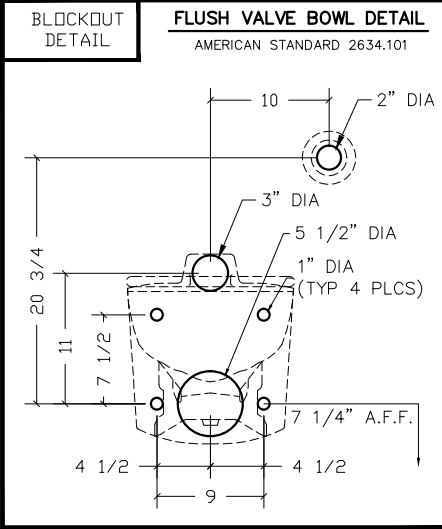
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CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

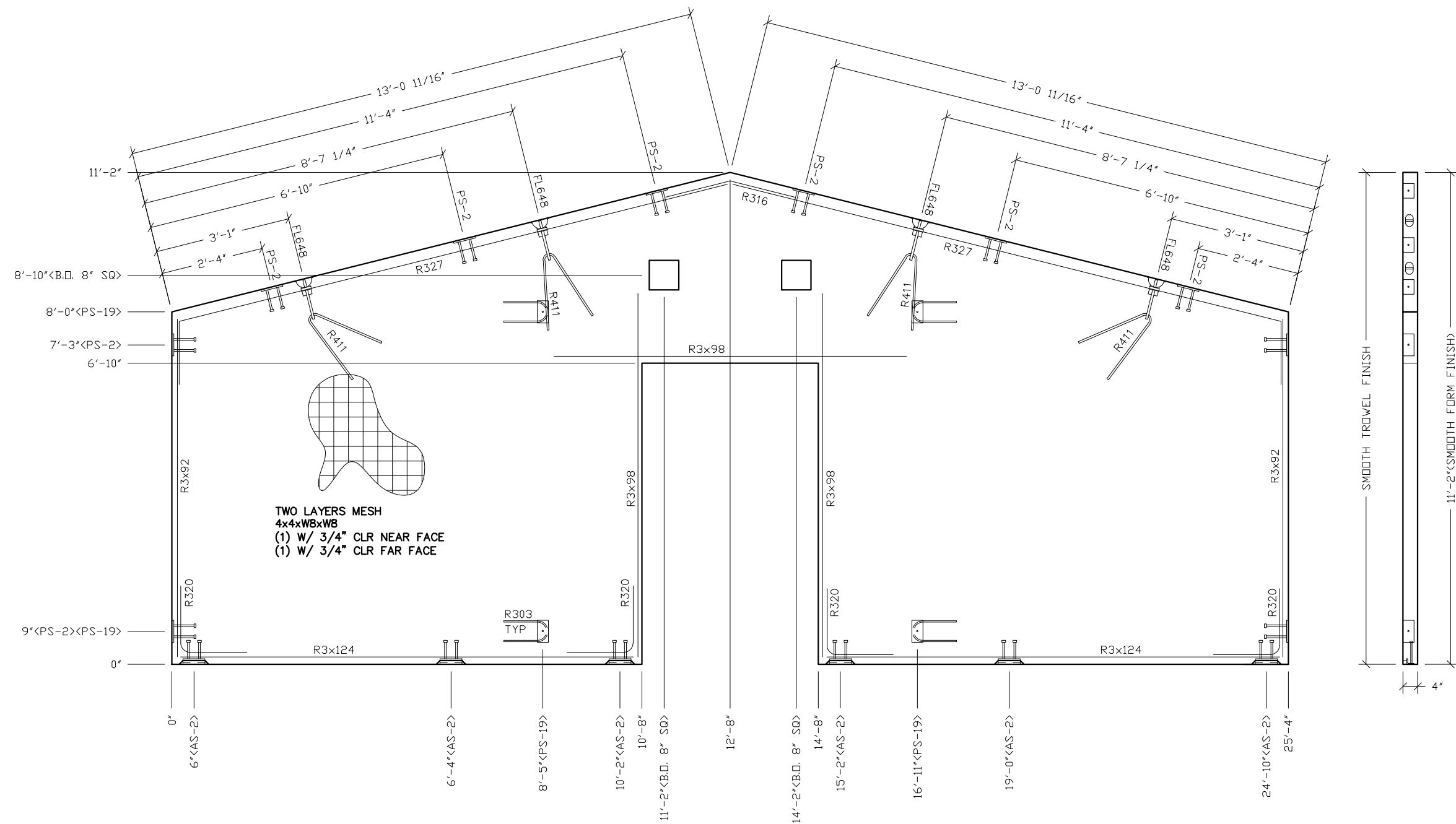
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W4**
DWG. NO. S-11 SHEET 11 REV. 44



- NOTES:
1. WALL THICKNESS = 4"
2. EXCEPT R303, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER. ALL OTHER BARS TO BE CENTERED IN PANEL.



TWO LAYERS MESH
 4x4xWBxWB
 (1) W/ 3/4" CLR NEAR FACE
 (1) W/ 3/4" CLR FAR FACE

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	6
PS-2	10
PS-19	4
FL-648	4
R411	4
R3x124	4
R327	2
R3x92	4
R3x98	6
R303	4
R316	1
R320	8
BLOCKOUT 8" SQ.	2

CU. FT. CONC. 71.5 (2.65)	SQ. FT. W.W.F. 428
------------------------------	-----------------------

APPROXIMATE WEIGHT 10,728

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PROJECT TITLE
SANTIAGO
 BUILDING NUMBER S-211

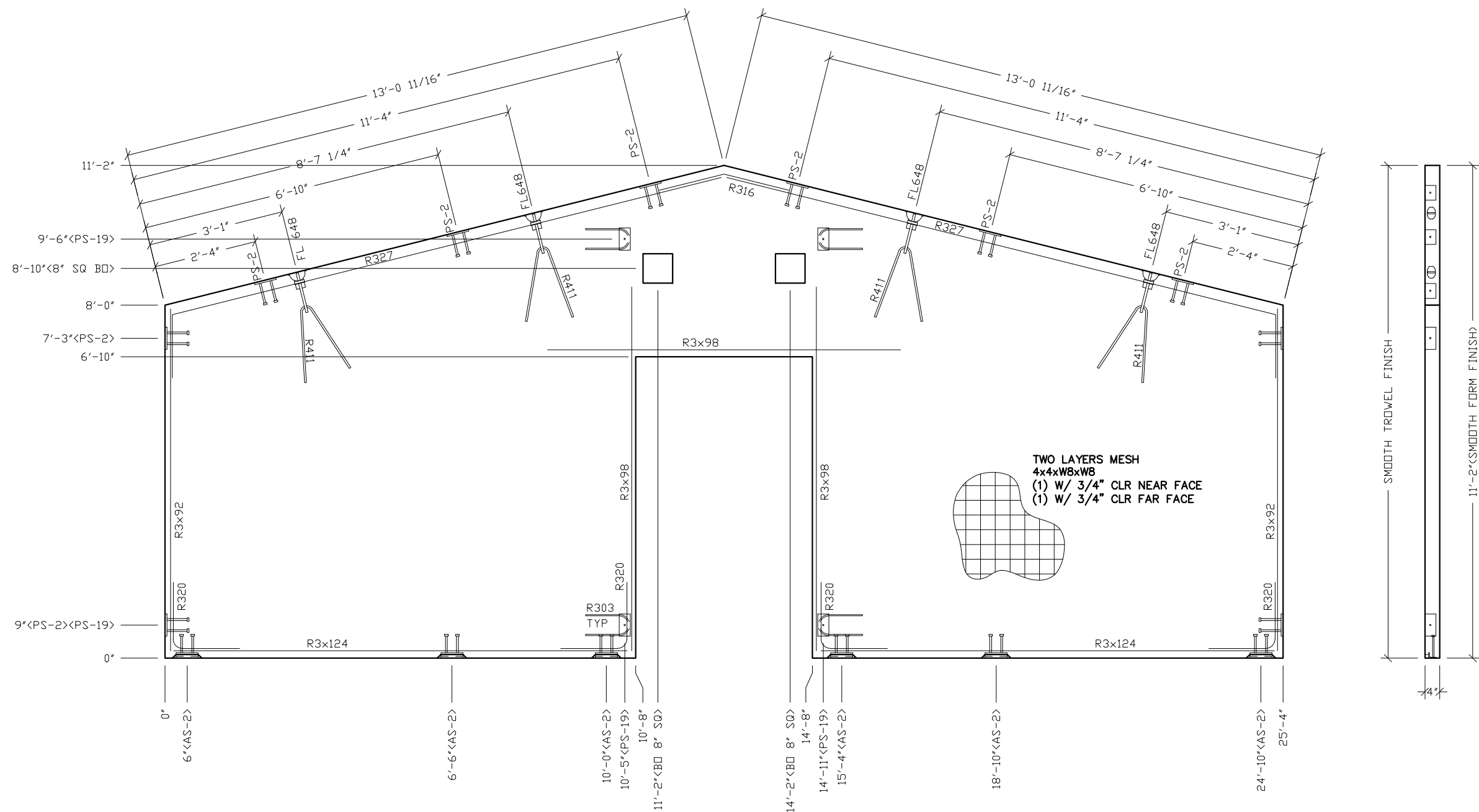
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL
MARK W6

DWG. NO. S-13	SHEET 13	REV. 44
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- NOTES:
1. WALL THICKNESS = 4"
 2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER
 ALL OTHER BARS TO BE CENTERED IN PANEL



EMBEDDED MATERIALS	
ITEM	QTY
AS-2	6
PS-2	10
PS-19	4
FL-648	4
R411	4
R303	4
R320	8
R3x92	4
R3x98	6
R3x124	4
R316	1
R327	2
BLOCKOUT 8" SQ.	2

CU. FT. CONC.	SQ. FT. W.W.F.
71.5 (2.65)	428

APPROXIMATE WEIGHT
10,728

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BUILDING NUMBER S-211

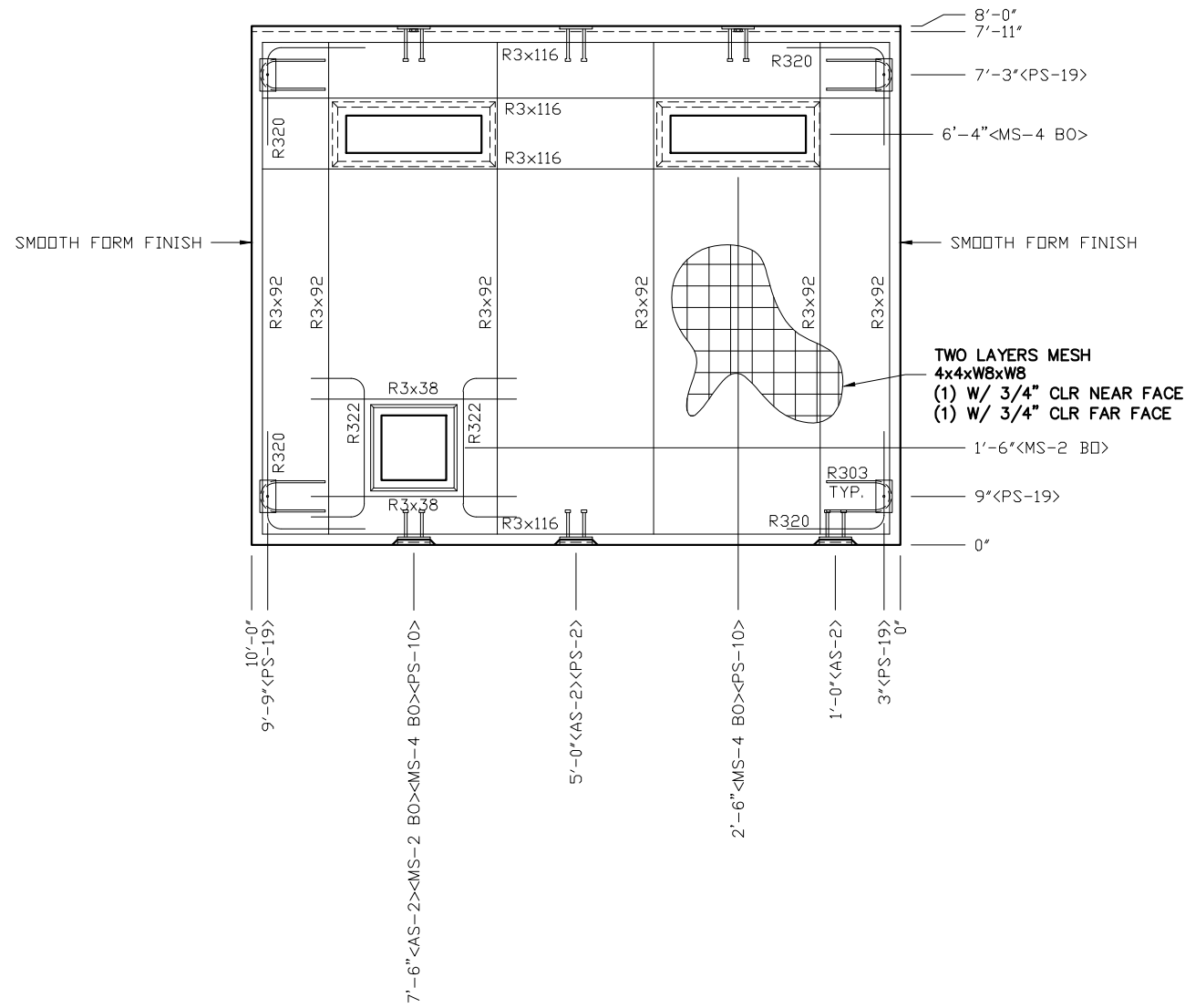
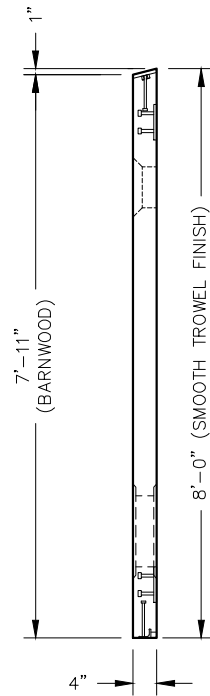
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL MARK W7	
DWG. NO. S-14	SHEET 14 / 44

NOTES:

1. WALL THICKNESS = 4"
2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.



NOTES:

1. WALL THICKNESS = 4"
2. EXCEPT R303, R322, & R3x38 REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER
3. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-10	2
PS-19	4
R303	4
R3x116	8
R3x92	12
R320	8
PS-2	1
MS-4 BO	2
MS-2 BO	1
R322	2
R3x38	2

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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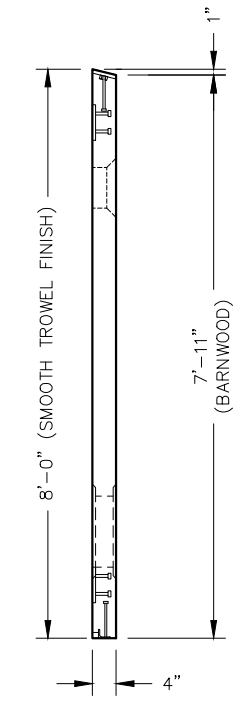
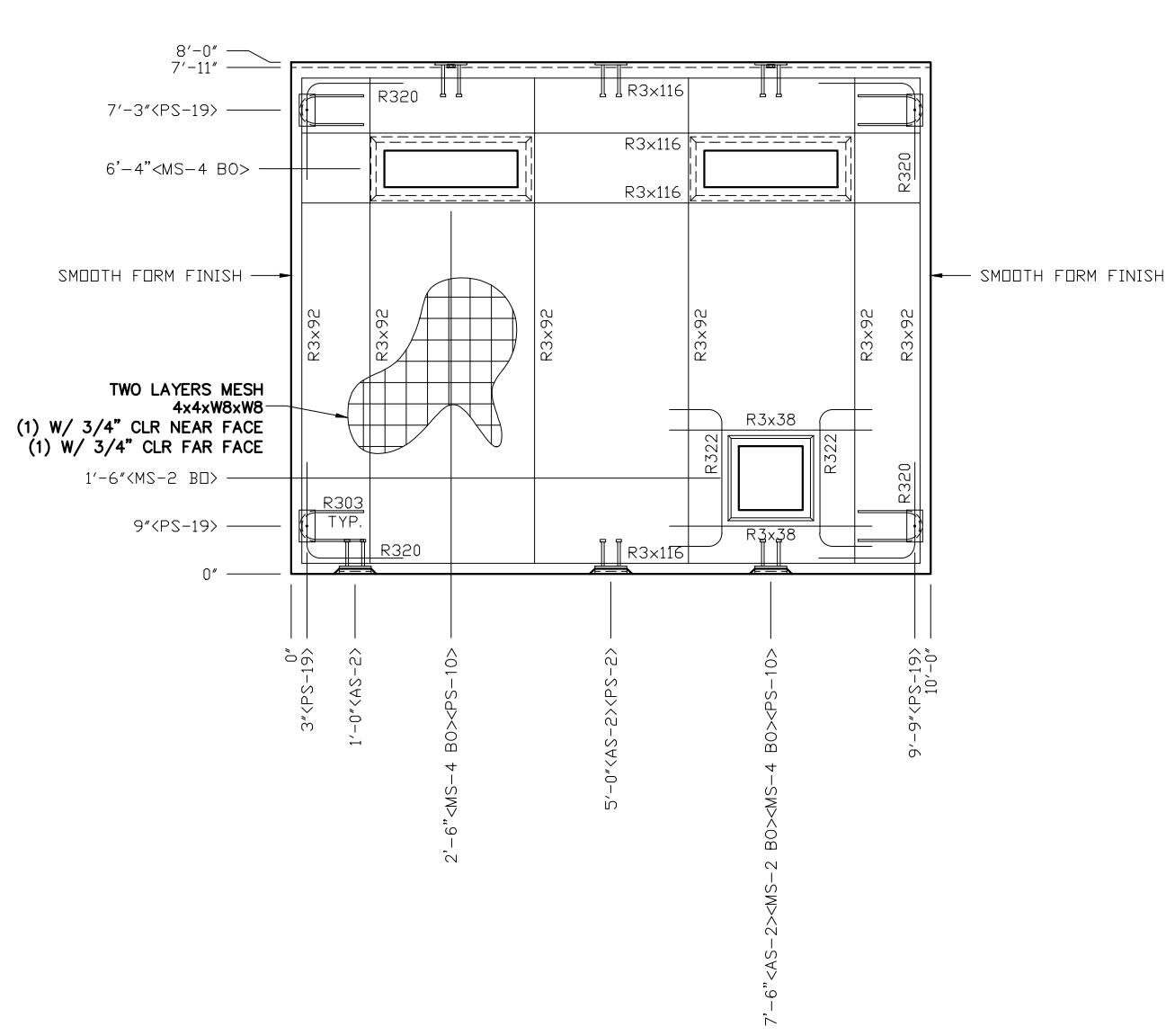
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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL MARK W8	
DWG NO. S-15	SHEET 15 REV. 44



NOTES:

1. WALL THICKNESS = 4"
2. EXCEPT R303, R322, & R3x38 REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER
3. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-10	2
PS-19	4
R303	4
R3x116	8
R3x92	12
R320	8
PS-2	1
MS-4 BO	2
MS-2 BO	1
R322	2
R3x38	2

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

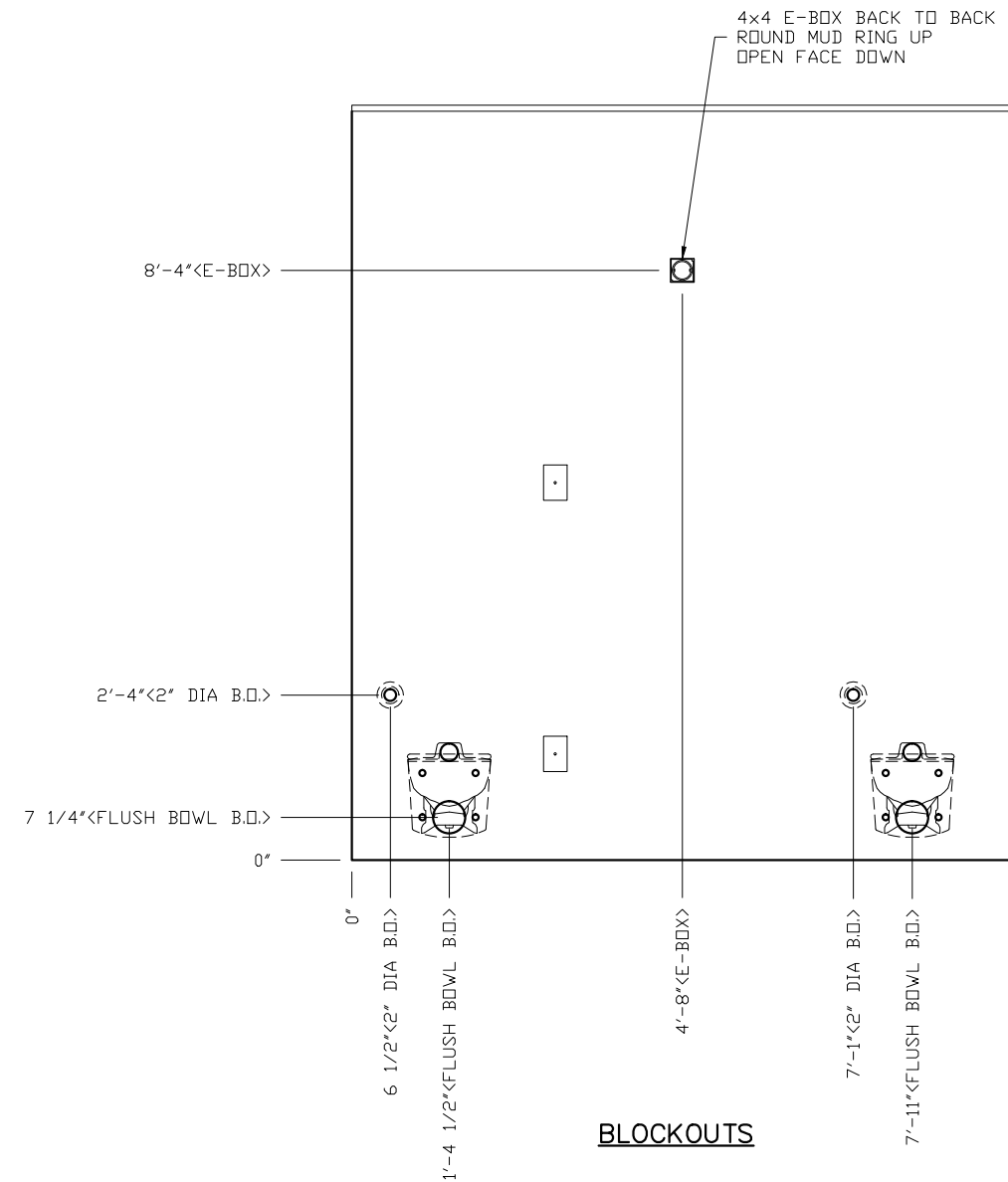
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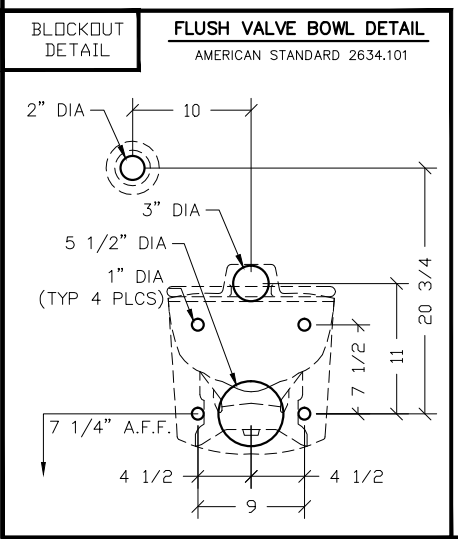
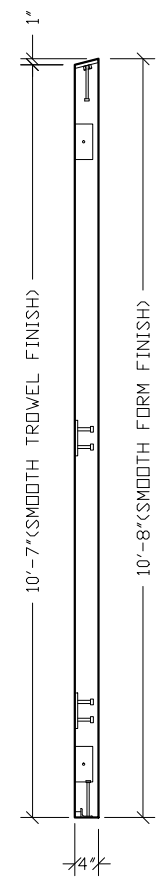
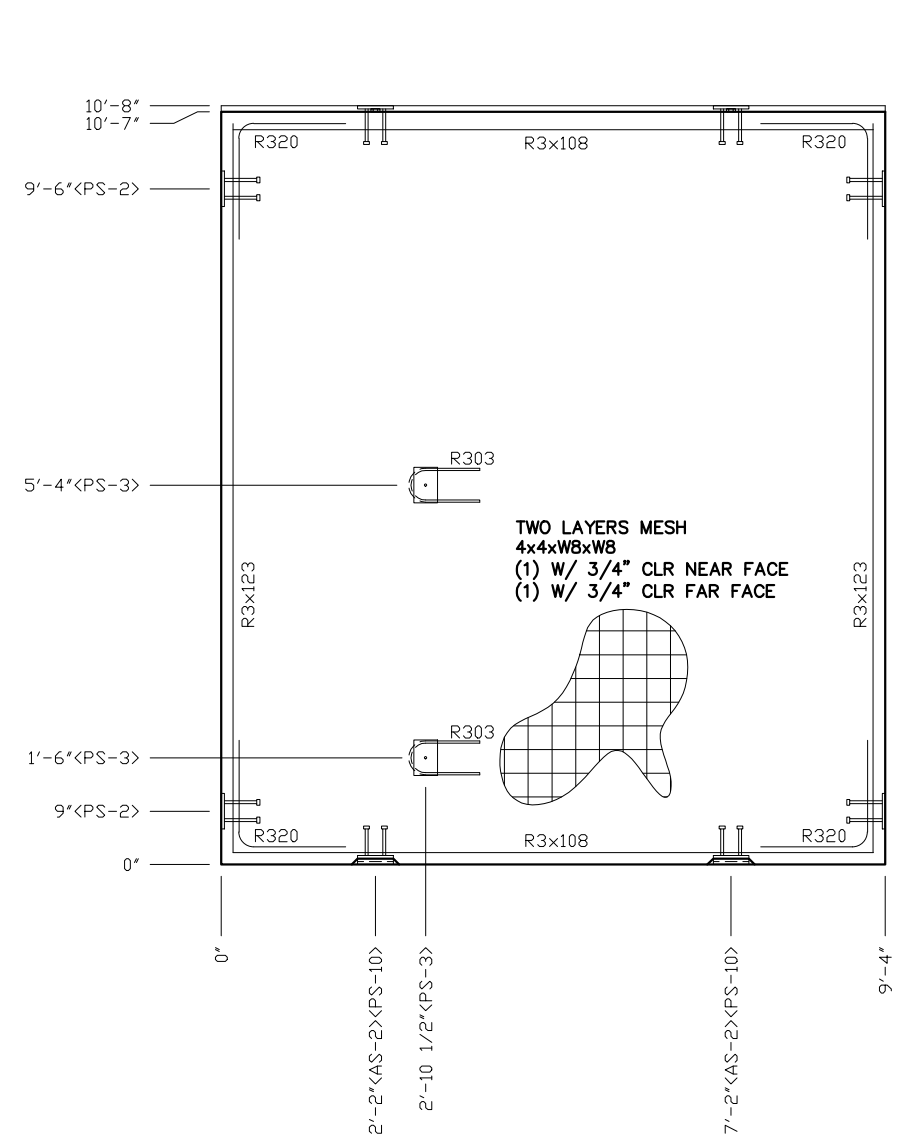
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W9**

DWG NO.	SHEET	REV.
S-16	16	44



BLOCKOUTS



- NOTES:**
1. WALL THICKNESS = 4"
 2. EXCEPT R303, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	2
PS-10	2
PS-2	4
PS-3	2
R303	2
R3x108	4
R3x123	4
R320	8
4x4 E-BOX	2
ROUND MUD RING	1
FLUSH BOWL B.O.	2
BLOCKOUT 2" DIA	2

CU. FT. CONC.	SQ. FT. W.W.F.
33.1 (1.23)	196

APPROXIMATE WEIGHT
4,965

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CXT
Precast Products

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

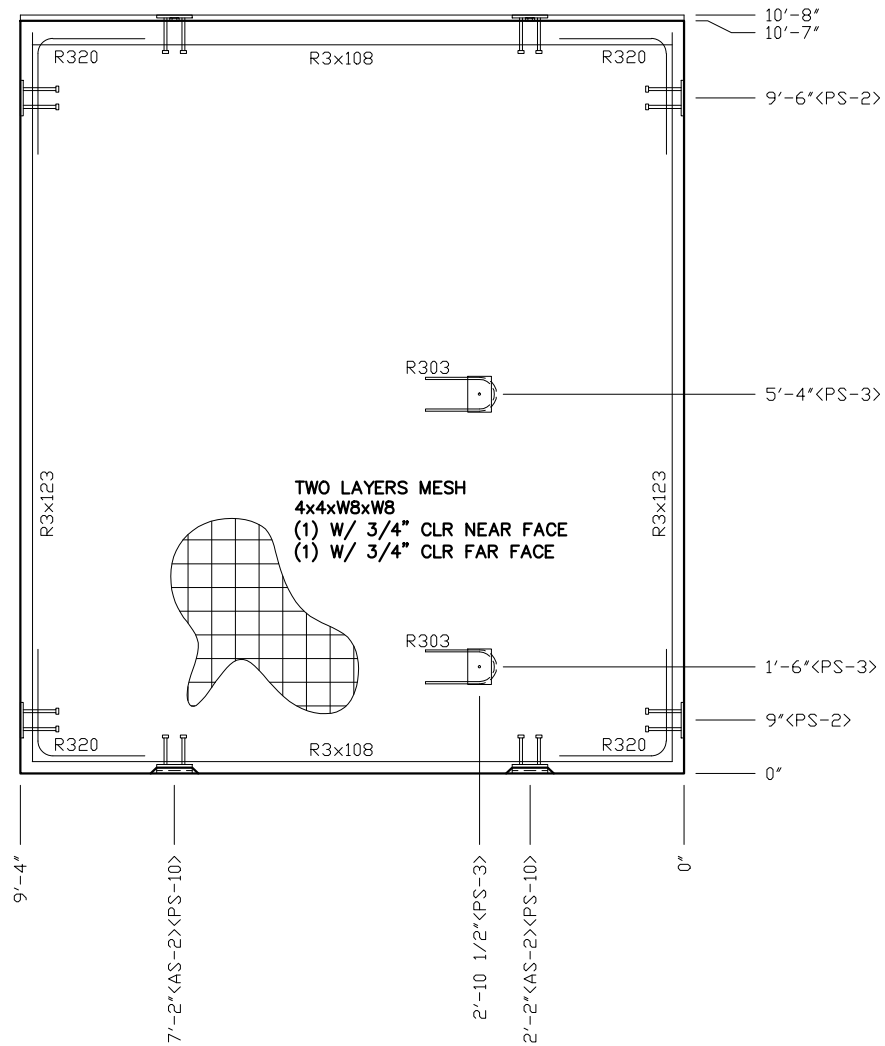
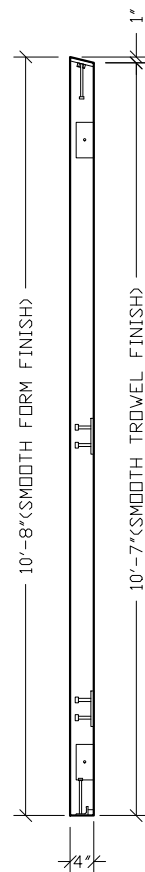
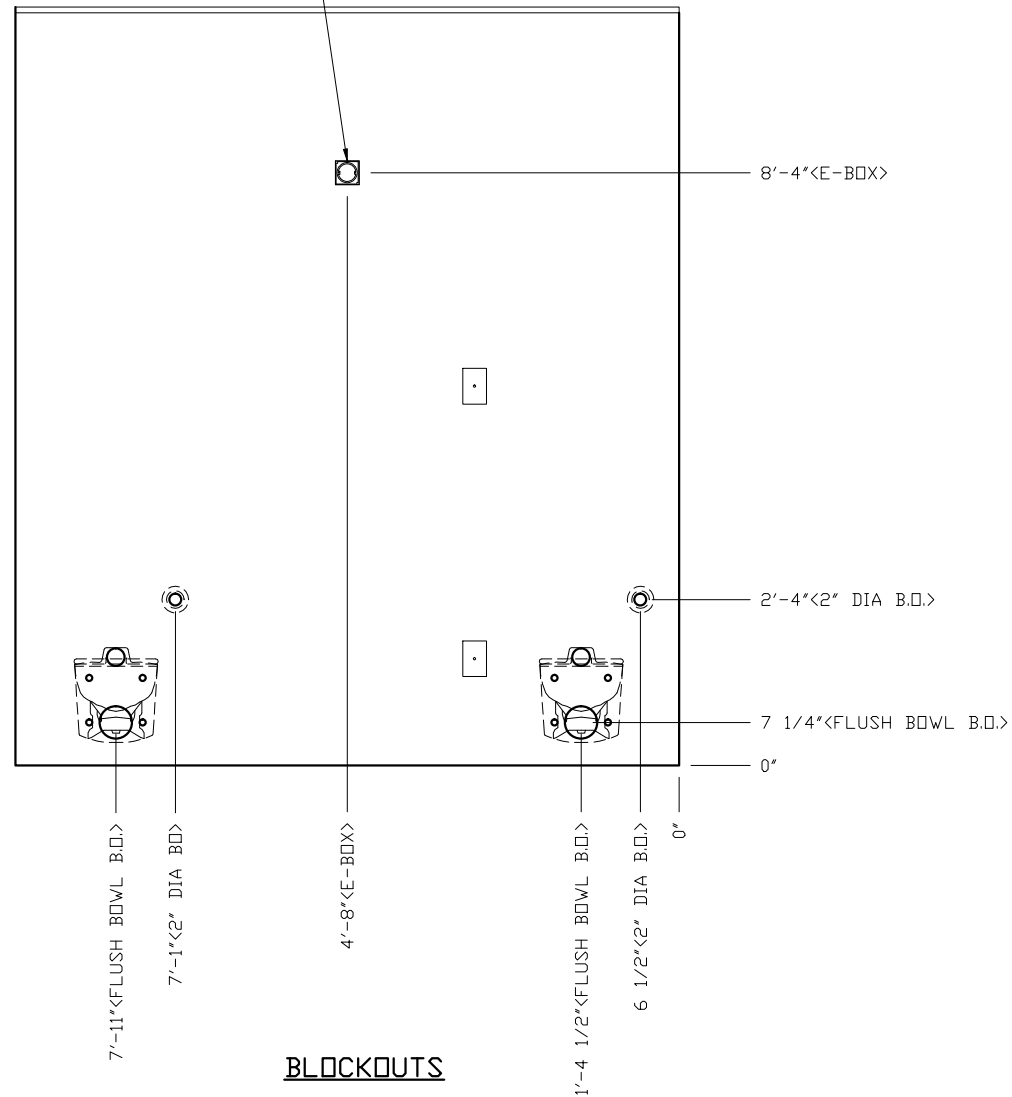
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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W10**

DWG NO.	SHEET	REV.
S-17	17	44

4x4 E-BOX BACK TO BACK
ROUND MUD RING UP
OPEN FACE DOWN



EMBEDDED MATERIALS	
ITEM	QTY
AS-2	2
PS-10	2
PS-2	4
PS-3	2
R303	2
R3x108	4
R3x123	4
R320	8
4x4 E-BOX	2
ROUND MUD RING	1
FLUSH BOWL B.O.	2
BLOCKOUT 2" DIA	2

CU. FT. CONC.	SQ. FT. W.W.F.
33.1 (1.23)	196
APPROXIMATE WEIGHT	
4,965	

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Precast Products

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

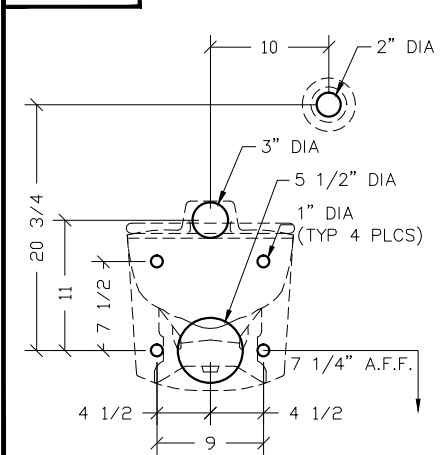
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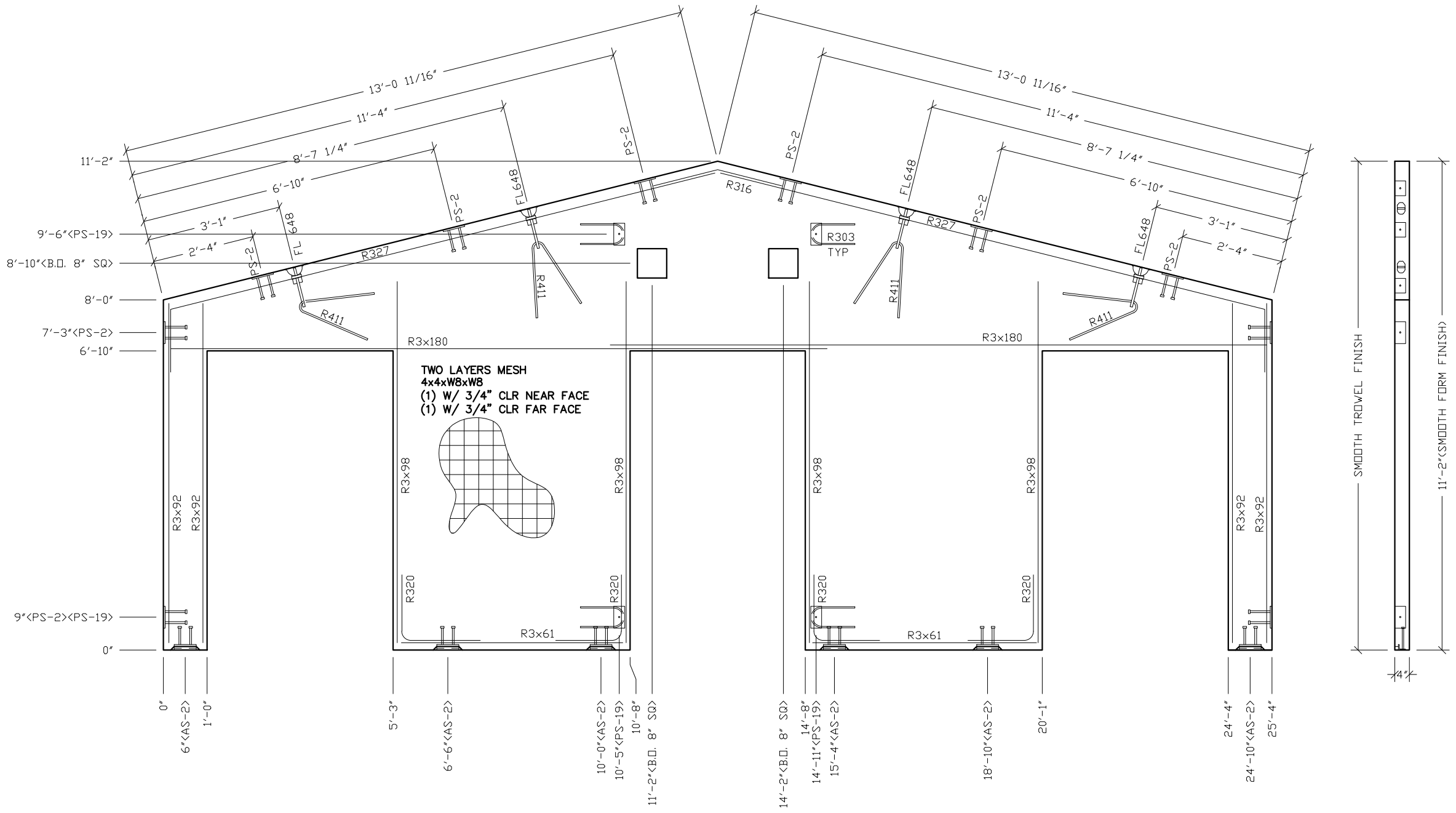
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL MARK W11	
DWG NO. S-18	SHEET 18 REV. 44

BLOCKOUT DETAIL
FLUSH VALVE BOWL DETAIL
AMERICAN STANDARD 2634.101



- NOTES:
1. WALL THICKNESS = 4"
 2. EXCEPT R303, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.



EMBEDDED MATERIALS	
ITEM	QTY
AS-2	6
PS-2	10
PS-19	4
FL-648	4
R411	4
R303	4
R327	2
R3x92	8
R3x180	4
R3x61	4
R316	1
R320	8
R3x98	8
8" SQ. BLOCKOUT	2

CU. FT. CONC.	SQ. FT. W.W.F.
52.1 (1.93)	480

APPROXIMATE WEIGHT
7,815

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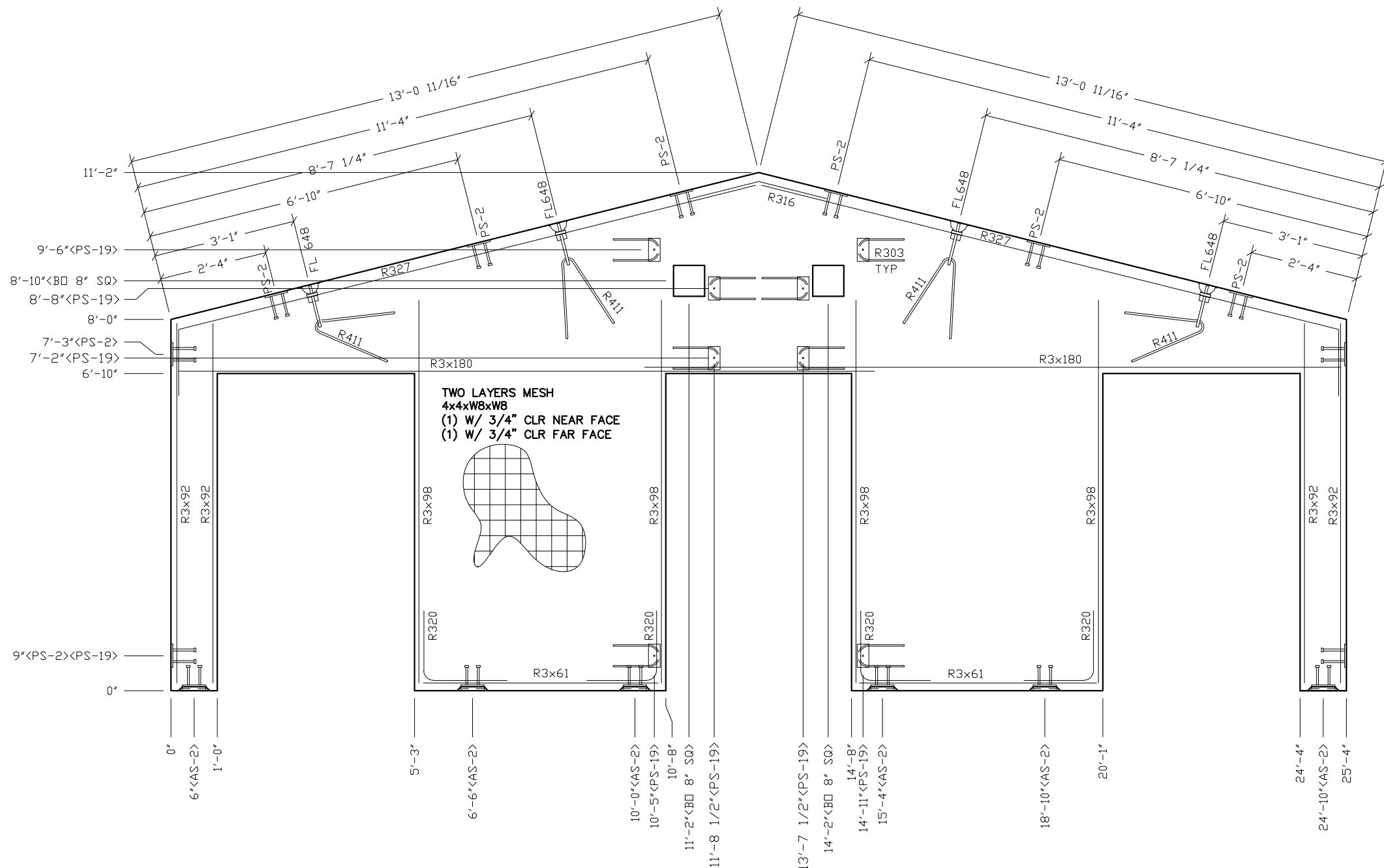
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

DWG NO. S-19		SHEET 19		REV. 44
		WALL PANEL MARK W12		

- NOTES:
1. WALL THICKNESS = 4"
 2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.



- NOTES:**
1. WALL THICKNESS = 4"
 2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	6
PS-2	10
PS-19	8
FL-648	4
R411	4
R303	8
R327	2
R3x92	8
R3x180	4
R3x61	4
R316	1
R320	8
R3x98	8
8" SQ. BLOCKOUT	2

CU. FT. CONC.	SQ. FT. W.W.F.
52.1 (1.93)	480
APPROXIMATE WEIGHT	
7,815	

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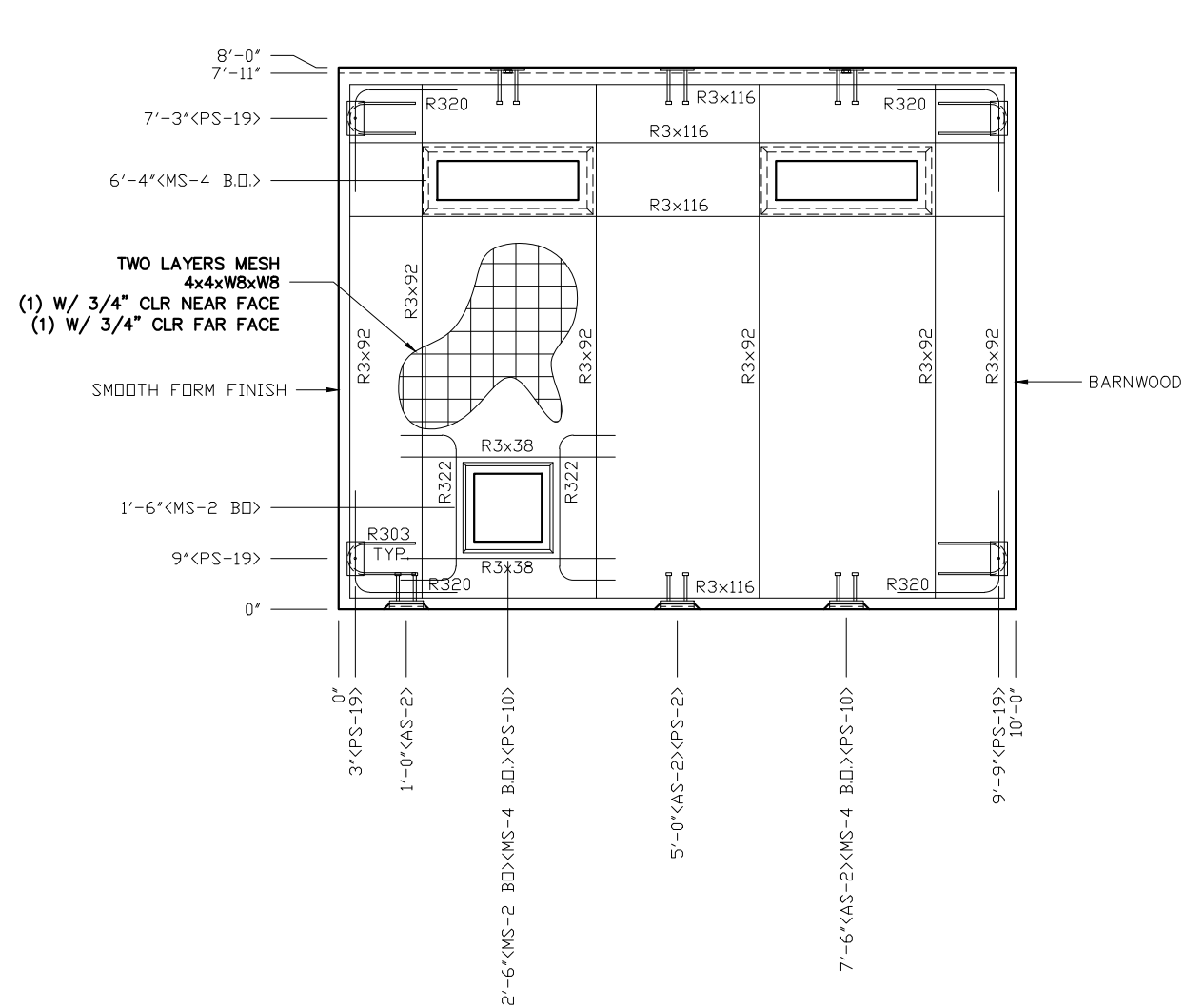
PROJECT TITLE
SANTIAGO
 BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W13**

DWG NO.	SHEET	REV.
S-20	20	44



NOTES:

1. WALL THICKNESS = 4
2. EXCEPT R303, R322, & R3x38 REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER
3. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-10	2
PS-19	4
R303	4
R3x116	8
R3x92	12
R320	8
PS-2	1
MS-4 B0	2
MS-2 B0	1
R322	2
R3x38	2

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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CXT Precast Products

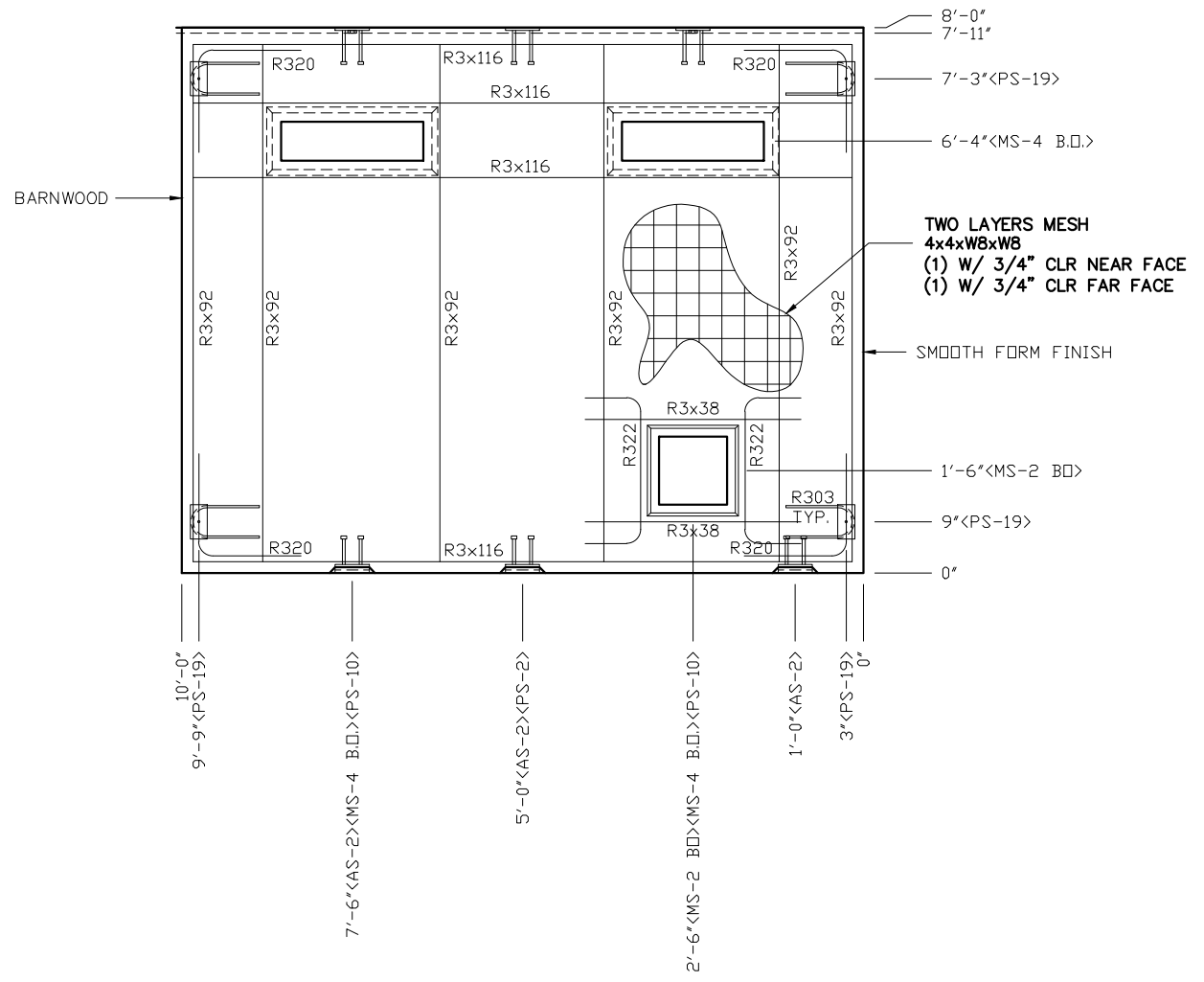
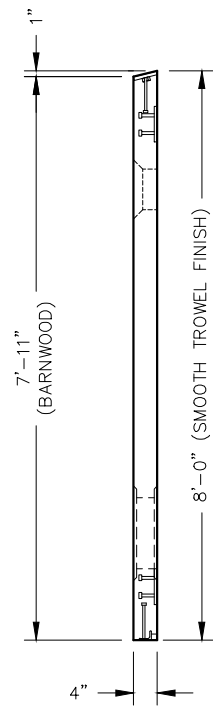
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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

WALL PANEL MARK W14	
DWG NO. S-21	SHEET 21 REV. 44



- NOTES:**
1. WALL THICKNESS = 4
 2. EXCEPT R303, R322, & R3x38 REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER
 3. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	3
PS-10	2
PS-19	4
R303	4
R3x116	8
R3x92	12
R320	8
PS-2	1
MS-4 B0	2
MS-2 B0	1
R322	2
R3x38	2

CU. FT. CONC.	SQ. FT. W.W.F.
25.4 (0.94)	160

APPROXIMATE WEIGHT
3,810

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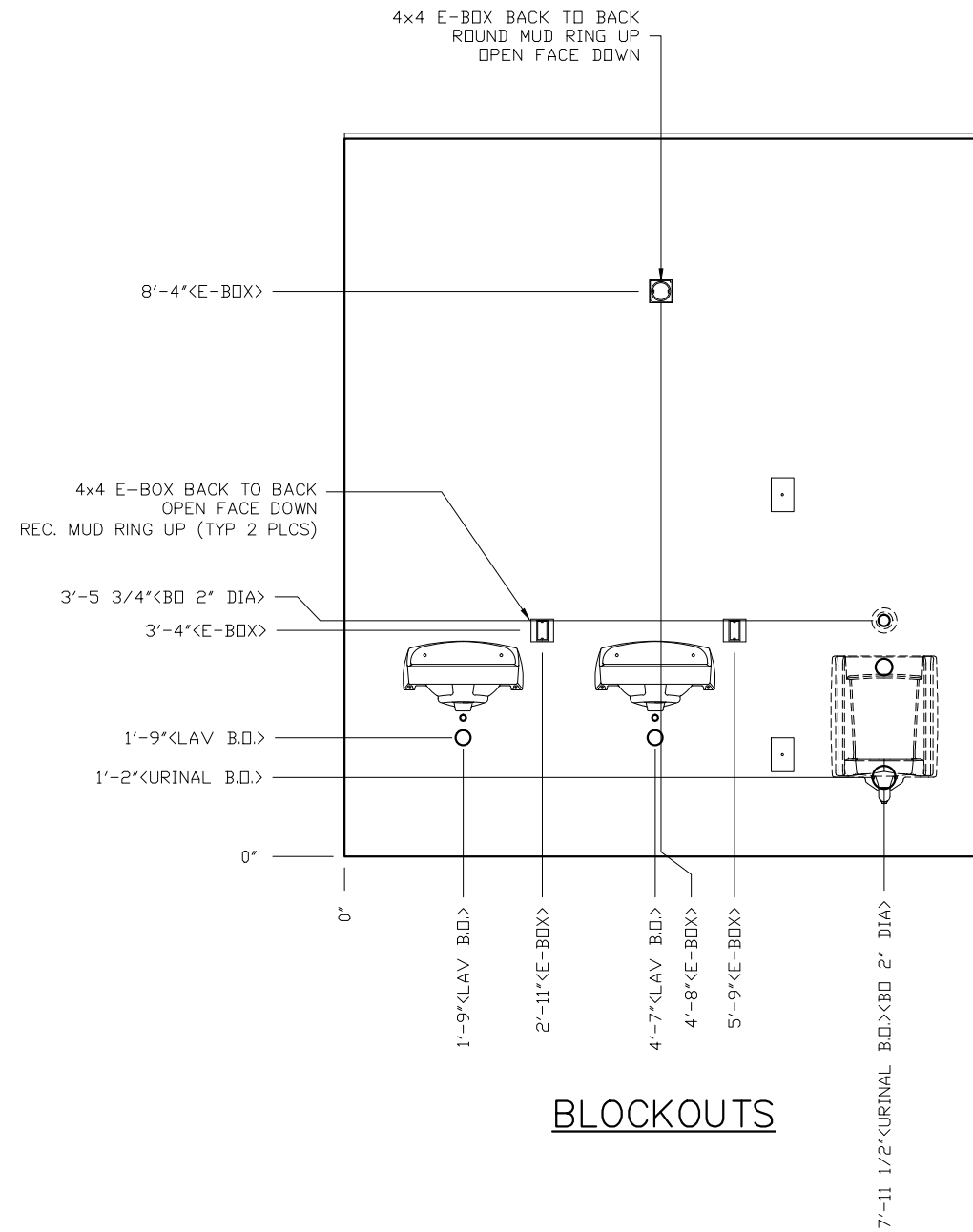
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SANTIAGO
BUILDING NUMBER S-211

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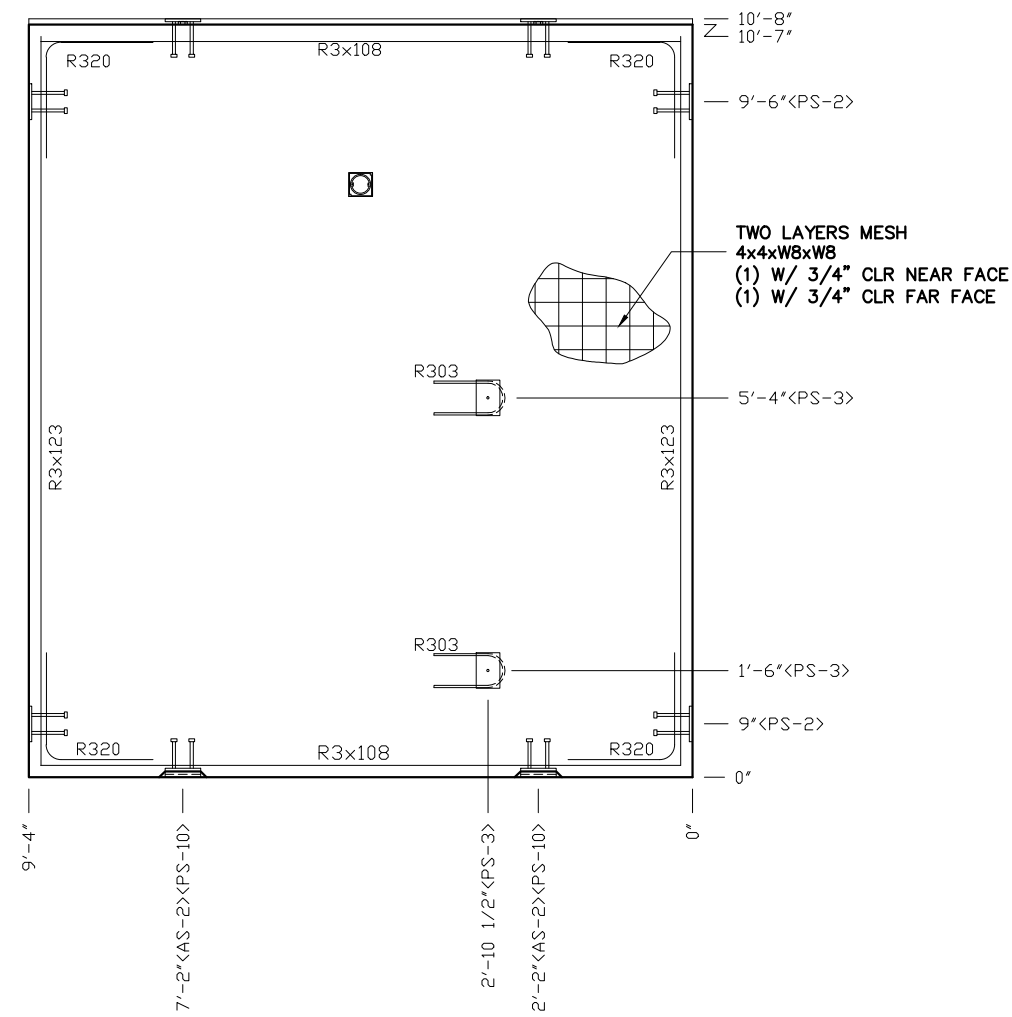
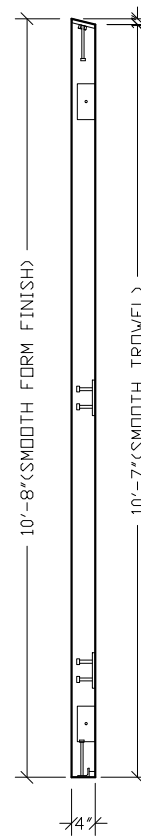
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W15**

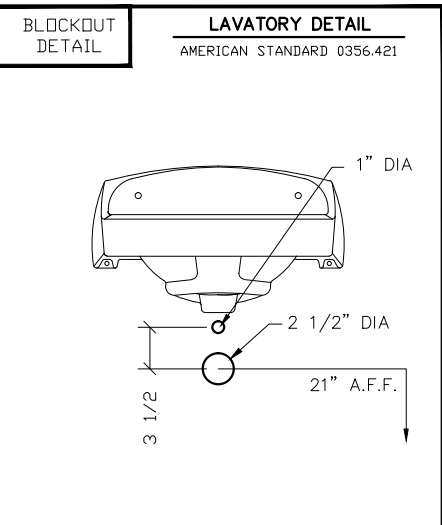
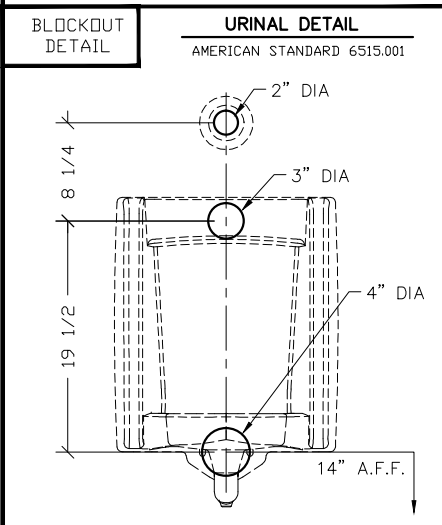
DWG NO. S-22	SHEET 22	REV. 44
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BLOCKOUTS



EMBEDS



EMBEDDED MATERIALS	
ITEM	QTY
AS-2	2
PS-10	2
PS-2	4
PS-3	2
R303	2
R3x108	4
R3x123	4
R320	8
4x4 E-BOX	6
ROUND MUD RING	1
RECT MUD RING	2
URINAL BO	1
LAV BO	2
BLOCKOUT 2" DIA	1

CU. FT. CONC.	SQ. FT. W.W.F.
33.2 (1.23)	200

APPROXIMATE WEIGHT
4,980

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CXT
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901 N. Highway 77 Hillsboro, TX 76645

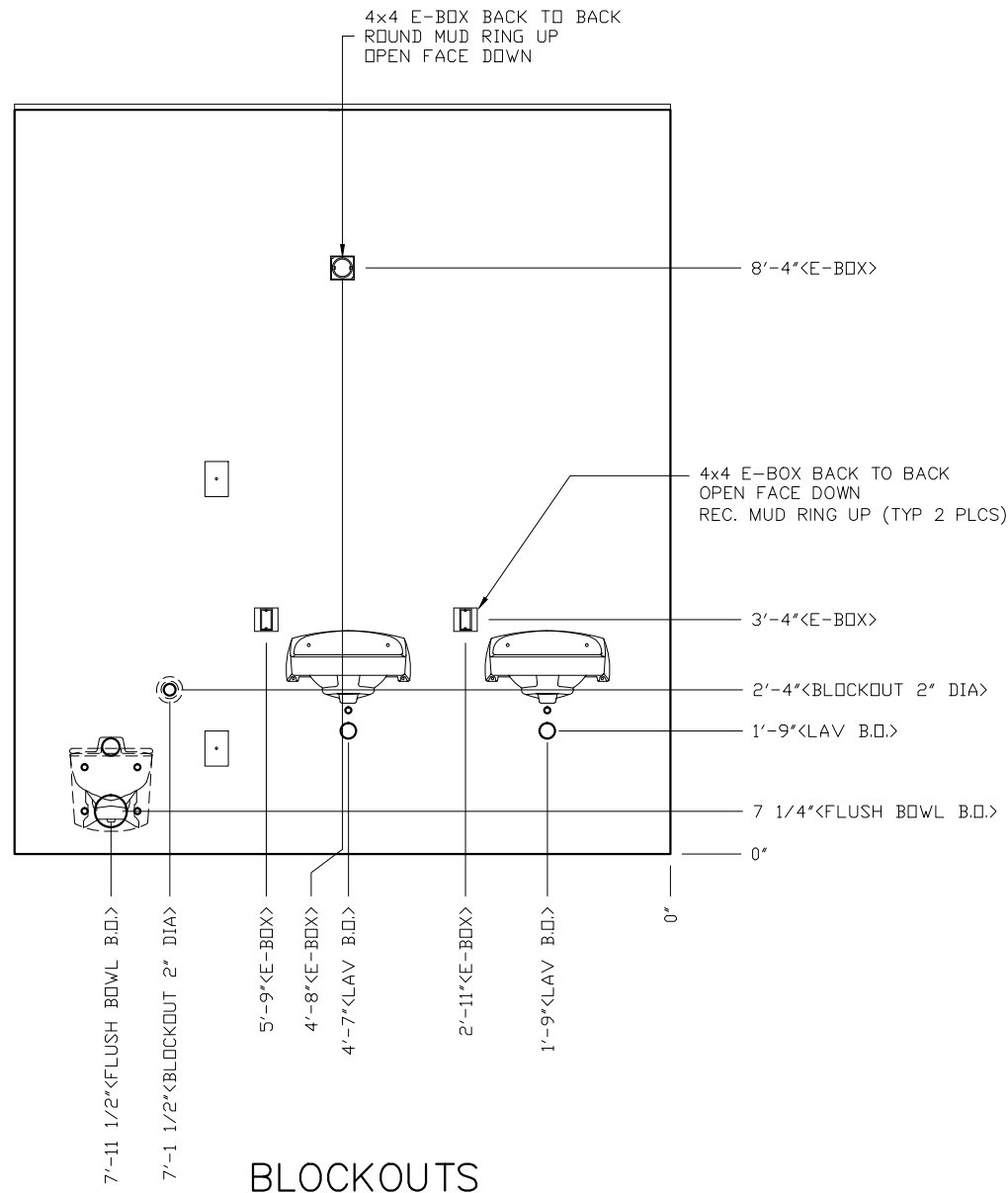
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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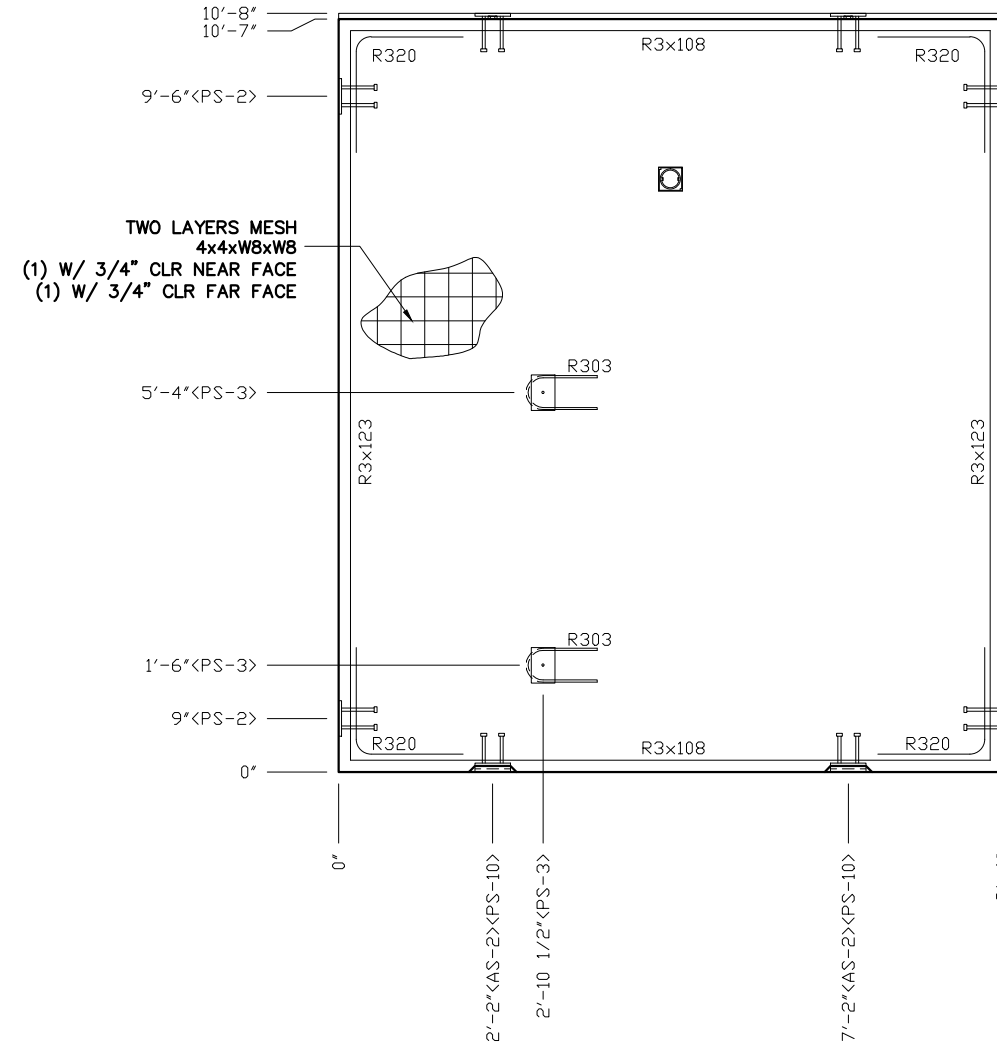
REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W16**
DWG. NO. S-23 SHEET 23 REV. 44

- NOTES:
1. WALL THICKNESS = 4"
2. EXCEPT R303, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.



BLOCKOUTS

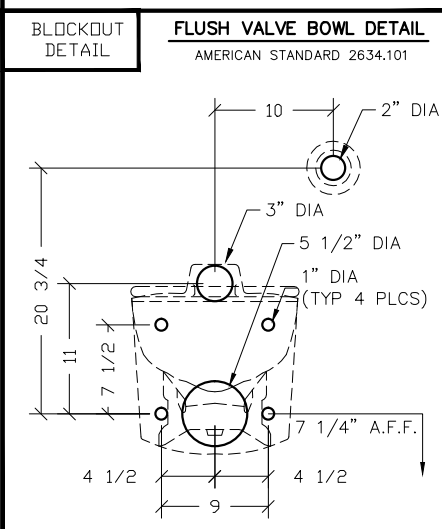


EMBEDS

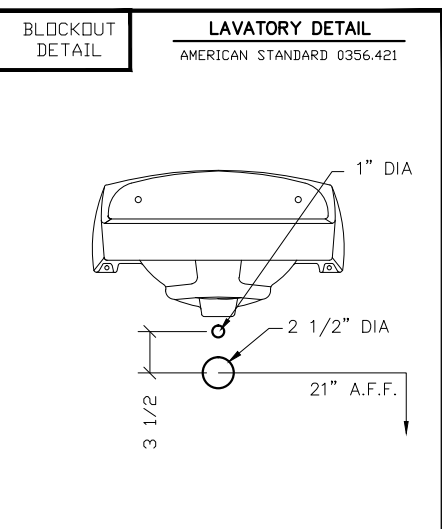
EMBEDDED MATERIALS	
ITEM	QTY
AS-2	2
PS-10	2
PS-2	4
PS-3	2
R303	2
R3x108	4
R3x123	4
R320	8
FLUSH BOWL BO	1
4x4 E-BOX	6
ROUND MUD RING	1
RECT MUD RING	2
LAV BO	2
BLOCKOUT 2" DIA	1

CU. FT. CONC.	SQ. FT. W.W.F.
33.2 (1.23)	200
APPROXIMATE WEIGHT	
4,980	

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FLUSH VALVE BOWL DETAIL
AMERICAN STANDARD 2634.101



LAVATORY DETAIL
AMERICAN STANDARD 0356.421

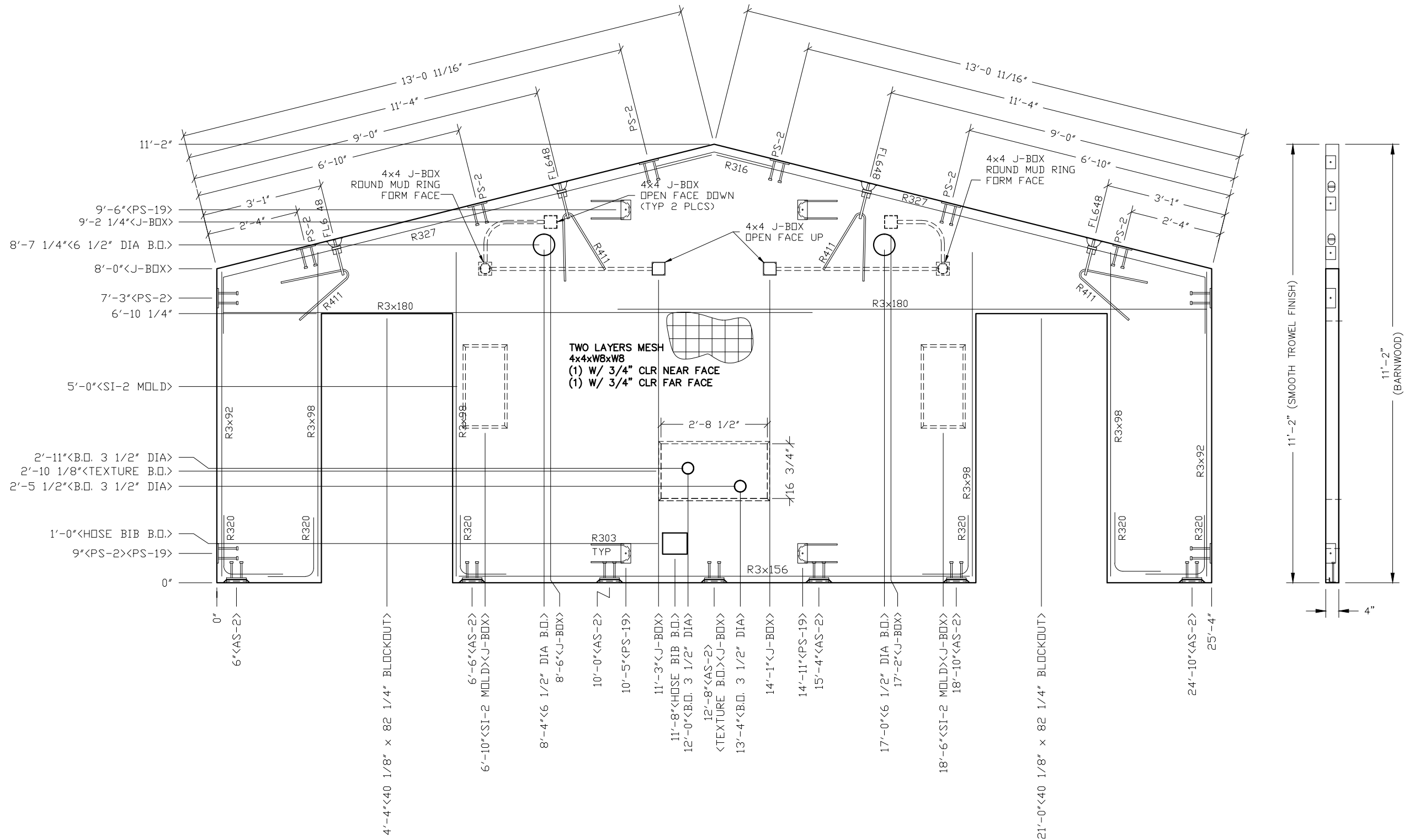
- NOTES:**
1. WALL THICKNESS = 4"
 2. EXCEPT R303, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.

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CXT
Precast Products
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32
WALL PANEL MARK W17			
DWG NO.	SHEET	REV.	
S-24	24	44	



TWO LAYERS MESH
4x4xW8xW8
(1) W/ 3/4" CLR NEAR FACE
(1) W/ 3/4" CLR FAR FACE

- NOTES:
1. WALL THICKNESS = 4"
 2. EXCEPT R303, R411, R327 & R316, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER ALL OTHER BARS TO BE CENTERED IN PANEL.
 3. BLOCKOUT WALL TEXTURE FOR LIGHT FIXTURES AND FAN SHROUDS.

EMBEDDED MATERIALS	
ITEM	QTY
AS-2	7
PS-2	10
PS-19	4
FL-648	4
R411	4
R303	4
R327	2
R3x92	4
R3x98	8
R316	1
R3x180	4
R3x156	2
R320	12
SI-2 MOLD	2
4x4 J-BOX	6
ROUND MUD RING	2
6 1/2" DIA BLOCKOUT	2
40 1/8" x 82 1/4" B.O.	2
BLOCKOUT 3 1/2" DIA	2
B65 HYDRANT	1

CU. FT. CONC.	SO. FT. W.W.F.
65.6 (2.43)	392

APPROXIMATE WEIGHT
9,848

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BUILDING NUMBER S-211

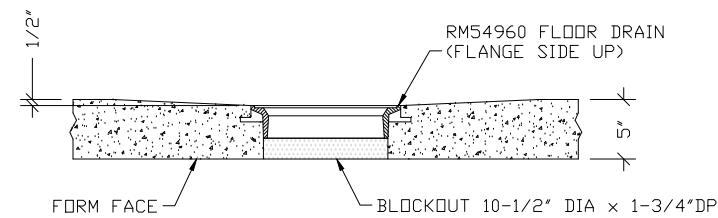
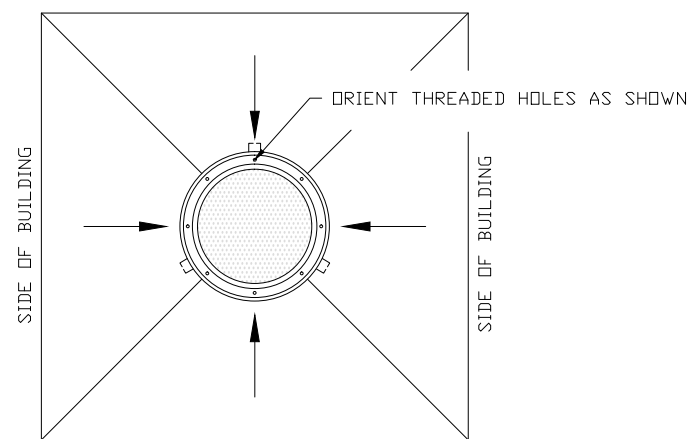
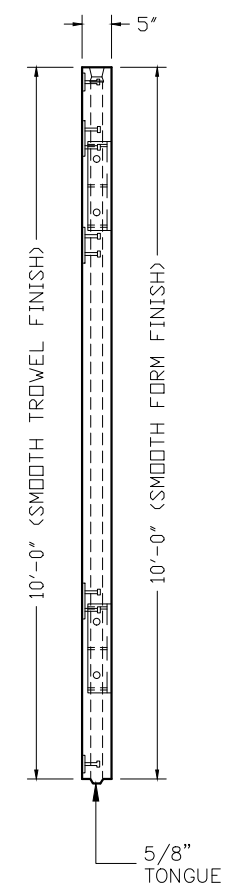
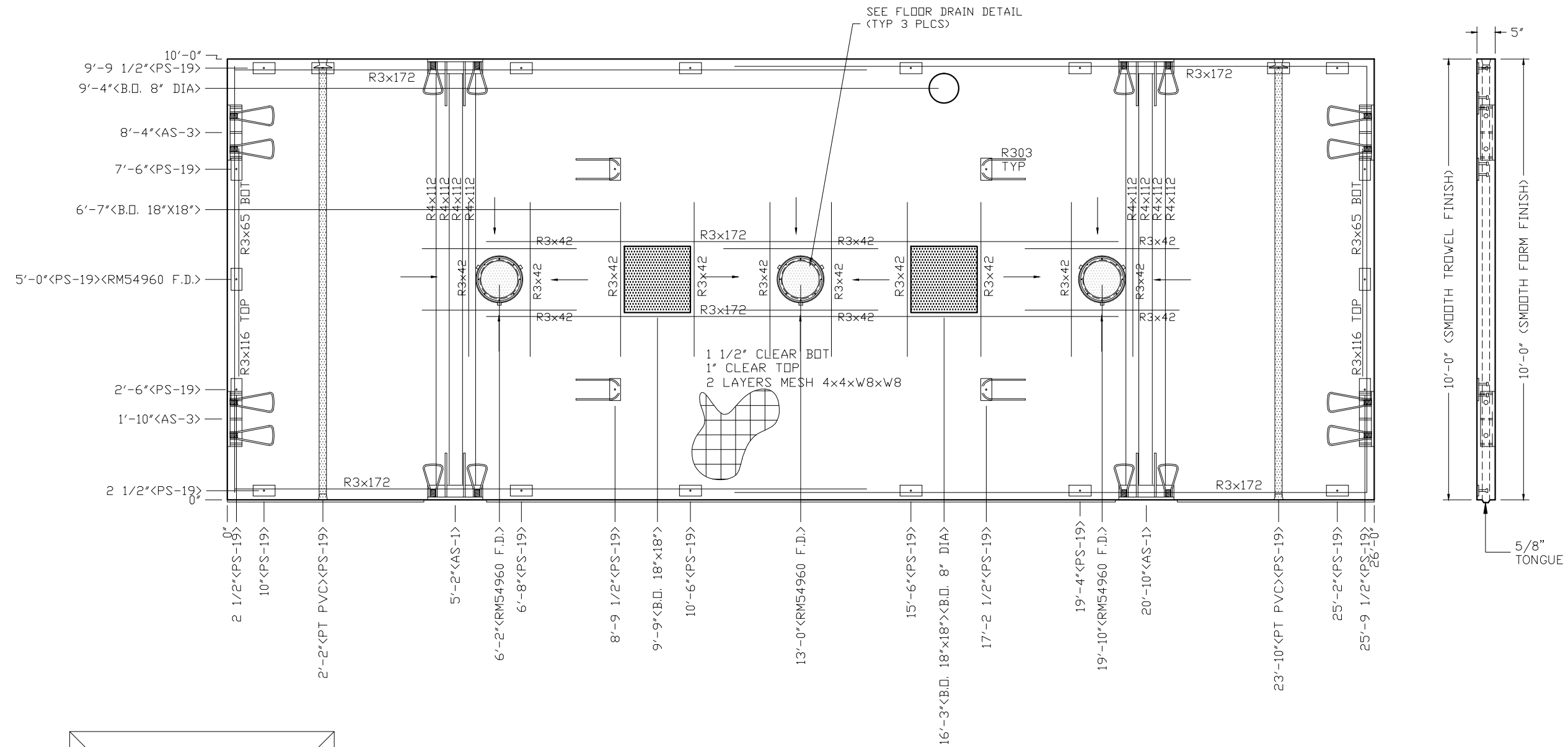
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**WALL PANEL
MARK W18**

DWG NO. S-25 SHEET 25 REV. 44



FLOOR DRAIN BLOCKOUT DETAIL

NOTES:

- FLOOR THICKNESS = 5"
- EXCEPT R303, R3x65, R3x116 & R4x112, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL WITH 1" MIN. COVER @ TOP & 1 1/4" COVER @ BOT.
- R4x112 TO BE PLACED IN BOTTOM OF PANEL WITH 1 1/4" COVER
- ALL OTHER BARS TO BE CENTERED IN PANEL

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	24
R303	4
AS-1	4
AS-3	4
R4x112	8
R3x172	12
R3x116	2
RM54960 F.D.	3
R3x65	2
R3x42	32
B.O. 8" DIA	1
PT CHUCK	2
BO 18" x 18"	2
1" PVC SCH40 x 9'-10"	2

CU. FT. CONC.	SQ. FT. W.W.F.
105.6 (3.91)	520

APPROXIMATE WEIGHT
15,834

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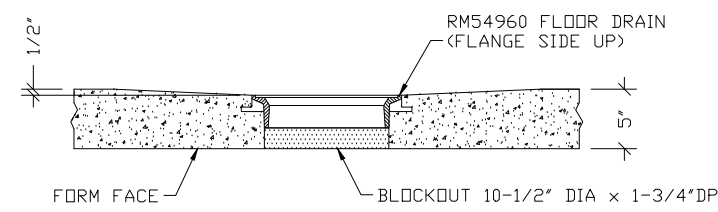
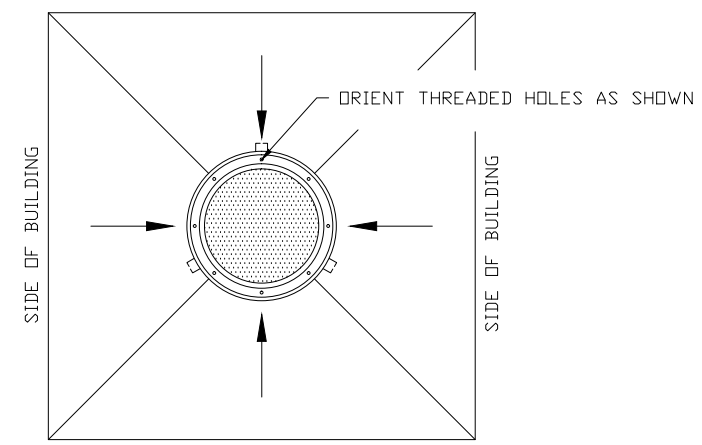
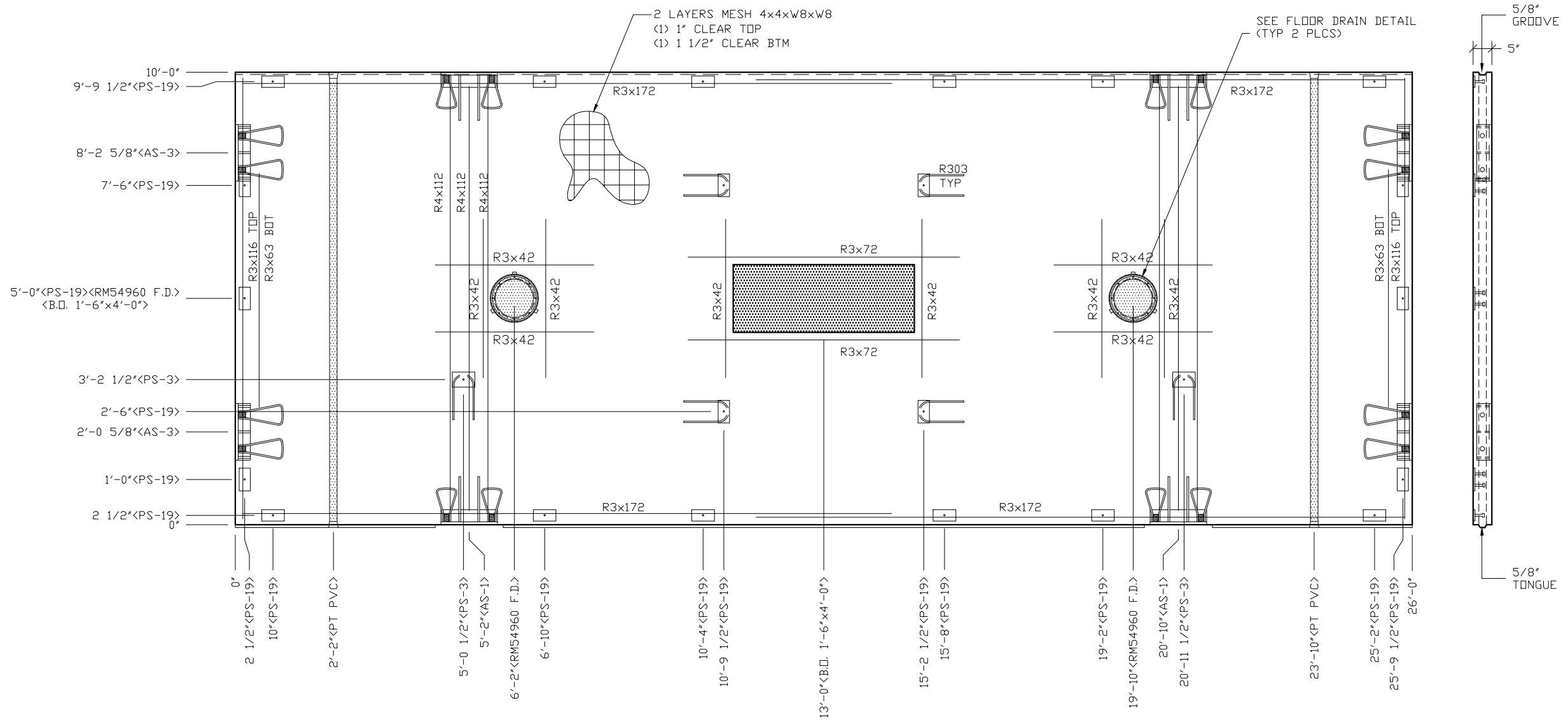
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SANTIAGO
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SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLLOT	32

FLOOR SLAB MARK F1	
DWG NO. S-26	SHEET 26 REV. 44



FLOOR DRAIN BLOCKOUT DETAIL

NOTES:

- 1. FLOOR THICKNESS = 5"
- 2. EXCEPT R303, R3x63, R3x116, R3x172 & R4x112, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL WITH 1" MIN COVER TOP & 1 1/4" MIN COVER BOT.
- 3. R4x112 TO BE PLACED IN BTM OF PANEL WITH 1 1/4" COVER
- 4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	22
AS-3	4
AS-1	4
PS-3	2
R303	6
R3x63	2
R4x112	6
R3x172	8
R3x72	4
R3x42	20
R3x116	2
RM54960 F.D.	2
BLOCKOUT 4'-0" x 1'-6"	1
1" PVC SCH40 x 9'-6"	2

CU. FT. CONC.	SQ. FT. W.W.F.
105.3 (3.90)	520

APPROXIMATE WEIGHT
15,800

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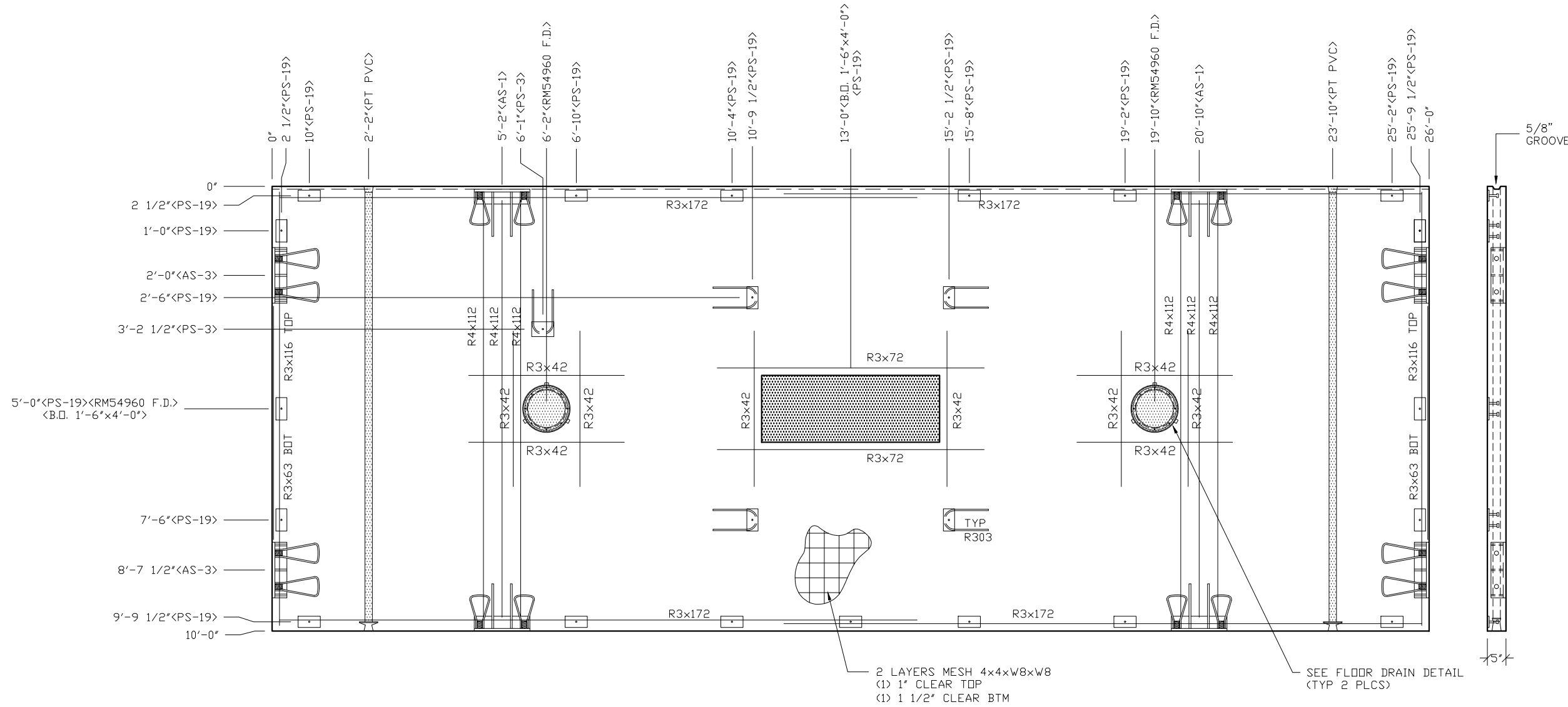
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BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

FLOOR SLAB MARK F2		
DWG NO.	SHEET	REV.
S-27	27	44



EMBEDDED MATERIALS	
ITEM	QTY
PS-19	23
AS-3	4
AS-1	4
PS-3	1
R303	5
R3x63	2
R4x112	6
R3x172	8
R3x72	4
R3x42	20
R3x116	2
RM54960 F.D.	2
BLOCKOUT 4'-0"x1'-6"	1
1" PVC SCH40 x 9'-6"	2
PT CHUCK	2

CU. FT. CONC.	SQ. FT. W.W.F.
105.3 (3.90)	520

APPROXIMATE WEIGHT
15,800

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Precast Products

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

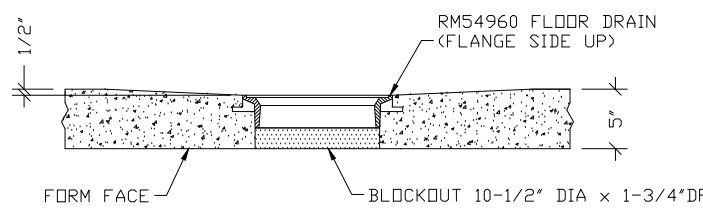
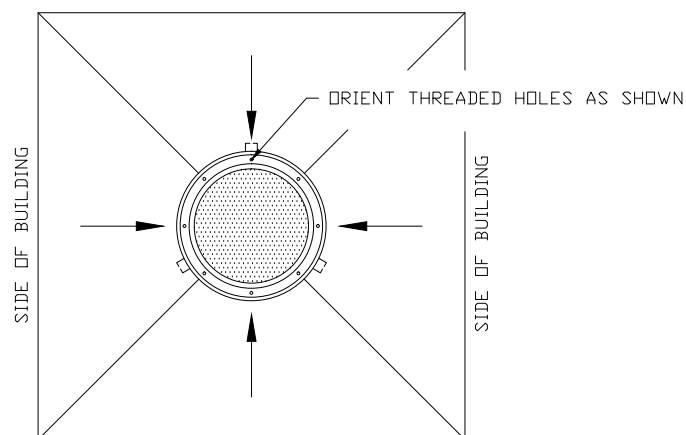
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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

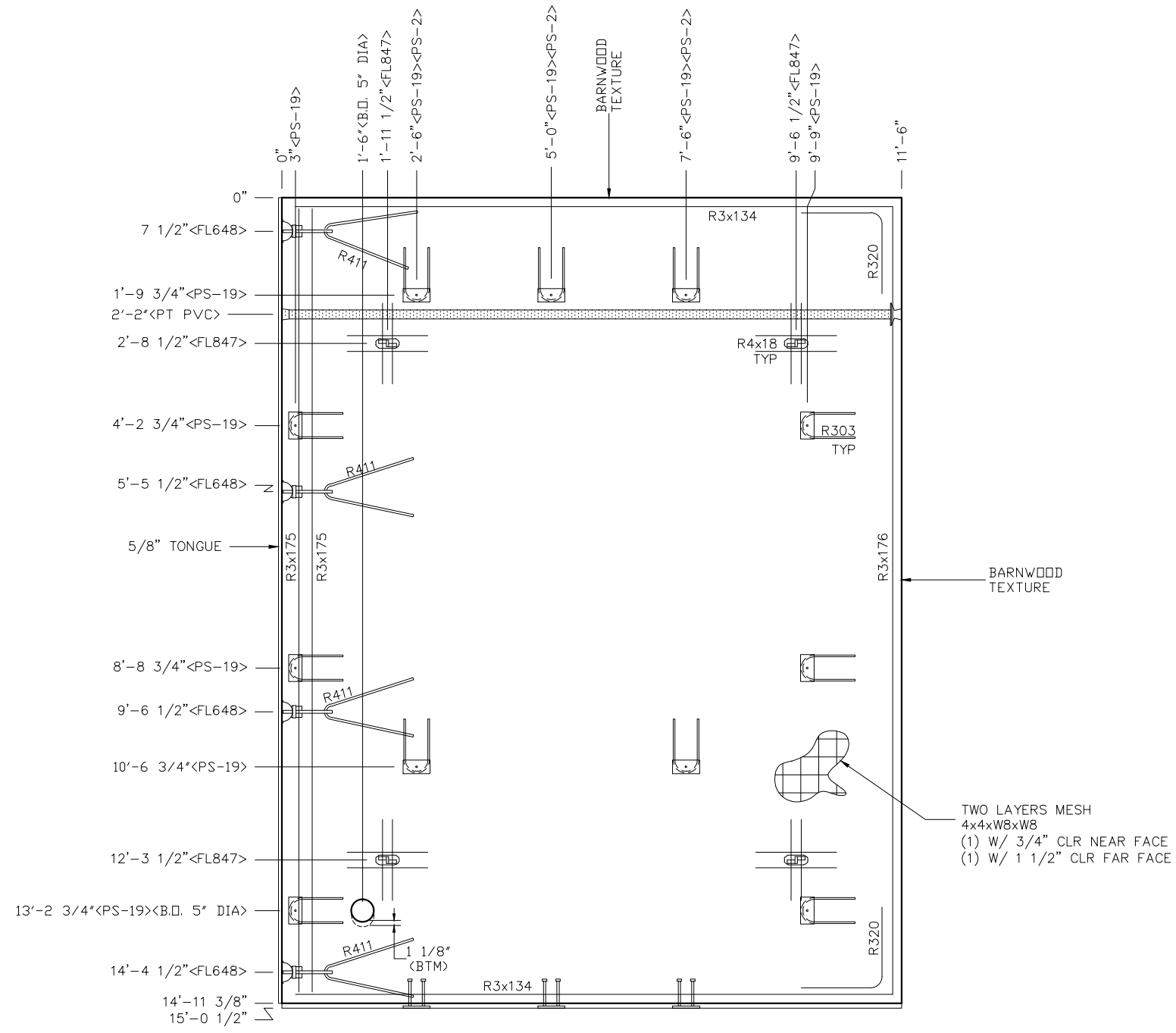
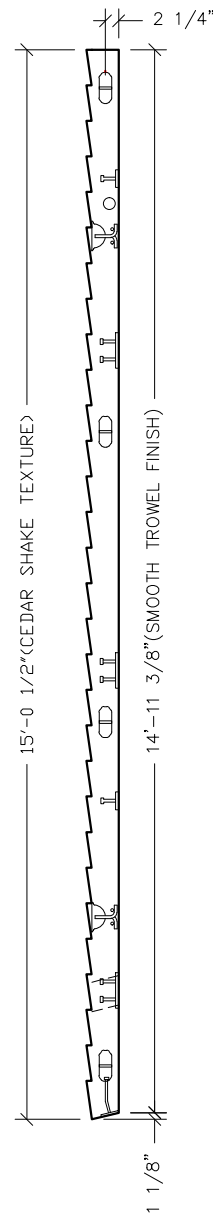
FLOOR SLAB MARK F3		
DWG NO. S-28	SHEET 28	REV. 44

NOTES:

- FLOOR THICKNESS = 5"
- EXCEPT R303, R3x63, R3x116, R3x172 & R4x112, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL WITH 1" MIN COVER TOP & 1 1/4" MIN COVER BOT.
- R4x112 TO BE PLACED IN BTM OF PANEL WITH 1 1/4" COVER
- ALL OTHER BARS TO BE CENTERED IN PANEL.



FLOOR DRAIN BLOCKOUT DETAIL



- NOTES:**
1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
 2. EXCEPT R303, R411, R3x175 & R4x18, BARS TO BE PLACED IN PAIRS, ONE EACH FACE OF PANEL W/ 3/4" CLR NF & 1 1/4" CLR FF
 3. PLACE BARS R4x18 UP IN FORM W/ 1" COVER.
 4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	11
FL-847	4
FL-648	4
R411	4
R303	11
R3x134	4
R3x175	2
R3x176	2
R320	4
1" PVC SCH40 x11'-0"	1
PT CHUCK	1
R4x18	16
B.O. 5" DIA	1
PS-2	3

CU. FT. CONC.	SO. FT. W.W.F.
71.9 (2.66)	344
APPROXIMATE WEIGHT	
10,785	

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Precast Products
 901 N. Highway 77 Hillsboro, TX 76645

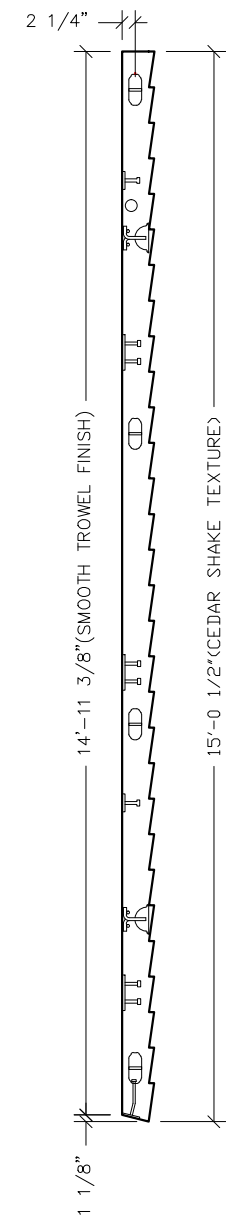
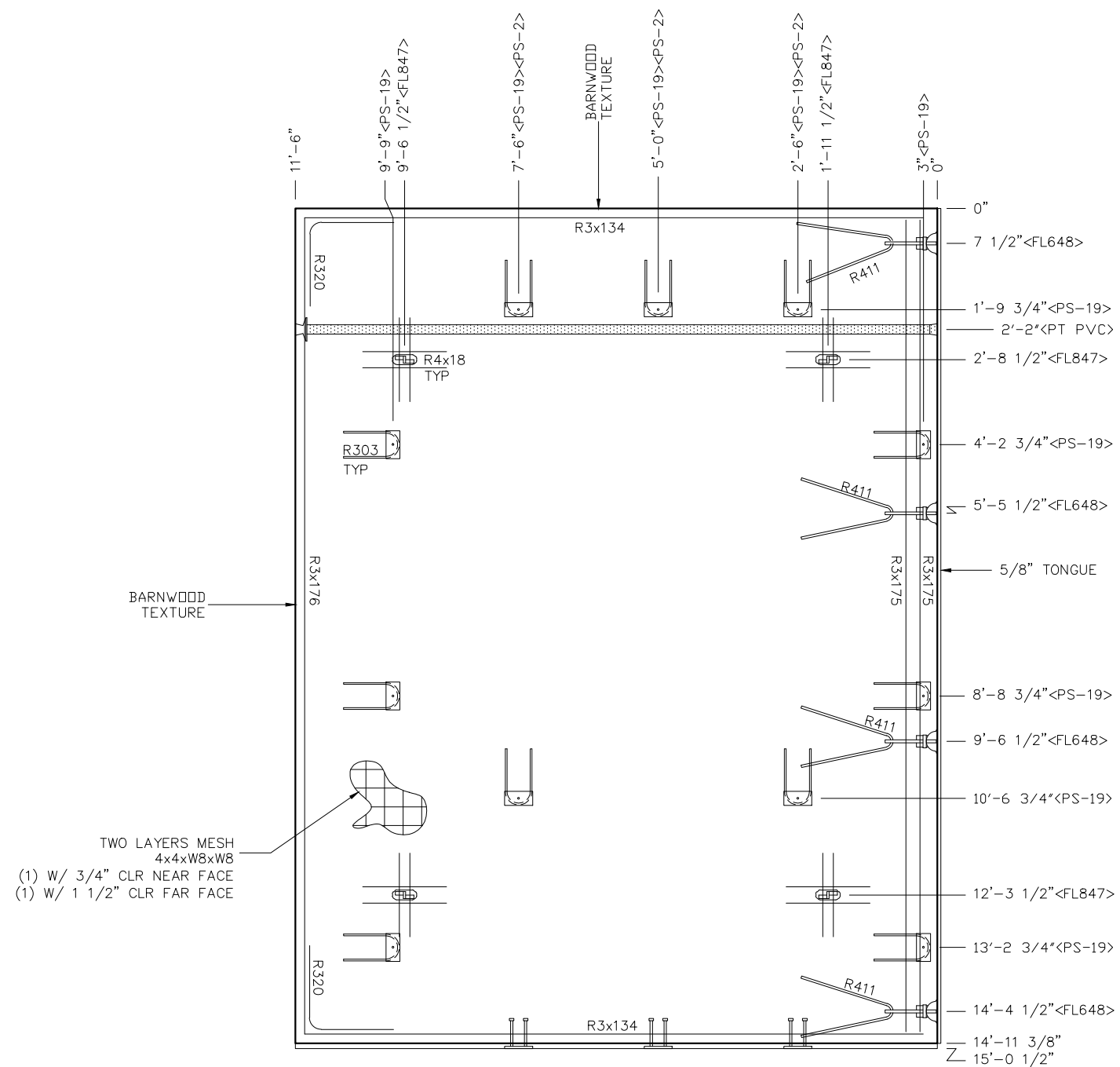
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SANTIAGO
 BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**ROOF SLAB
MARK R1-R**

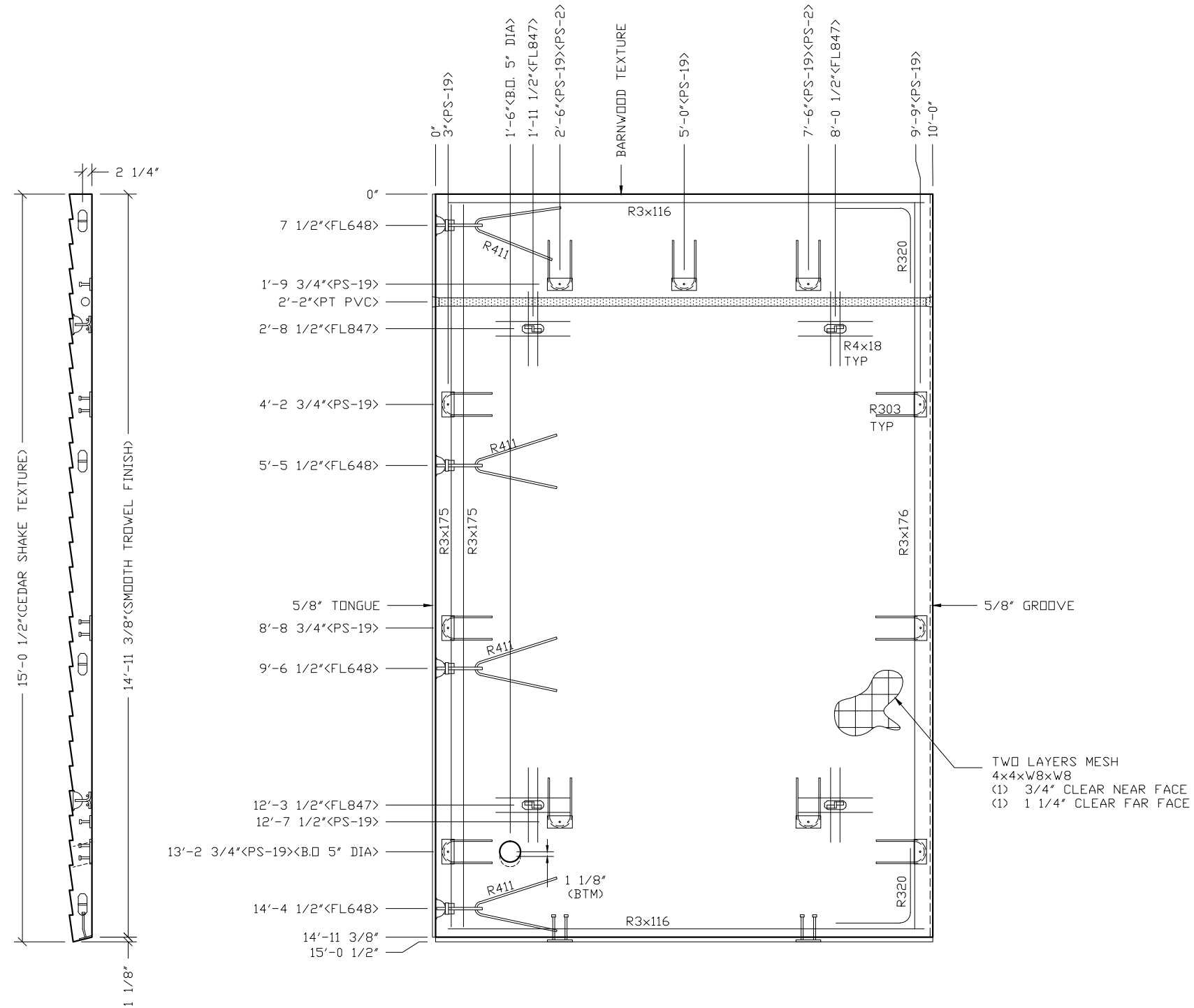
DWG NO.	SHEET	REV.
S-29	29	44



NOTES:

1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
2. EXCEPT R303, R411, R3x175 & R4x18, BARS TO BE PLACED IN PAIRS, ONE EACH FACE OF PANEL W/ 3/4" CLR NF & 1 1/4" CLR FF
3. PLACE BARS R4x18 UP IN FORM W/ 1" COVER.
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	11
FL-847	4
FL-648	4
R411	4
R303	11
R3x134	4
R3x175	2
R3x176	2
R320	4
1" PVC SCH40 x11'-0"	1
PT CHUCK	1
R4x18	16
PS-2	3
CU. FT. CONC.	SQ. FT. W.W.F.
71.9 (2.66)	344
APPROXIMATE WEIGHT	
10,785	
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3808 N. Sullivan Bldg. #7 Spokane, WA 99216	
Precast Products	
901 N. Highway 77 Hillsboro, TX 76645	
PROJECT TITLE	
SANTIAGO	
BUILDING NUMBER S-211	
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CXT Incorporated	
REV.	DATE
SCALE	11-06-17
DRAWN	S-211
CHECKED	32
ROOF SLAB MARK R1-L	
DWG NO.	SHEET
S-30	30
	REV.
	44



NOTES:

- 1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
- 2. EXCEPT R303, R411, R3x175 & R4x18, BARS TO BE PLACED IN PAIRS, ONE EACH FACE OF PANEL W/ 3/4" CLR NF & 1 1/4" CLR FF
- 3. PLACE BARS R4x18 UP IN FORM W/ 1" COVER.
- 4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	11
FL-847	4
FL-648	4
R411	4
R303	11
R3x116	4
R3x175	2
R3x176	2
R320	4
1" PVC SCH40 x9'-6"	1
PS-2	2
R4x18	16
BLOCKOUT 5" DIA	1

CU. FT. CONC.	SQ. FT. W.W.F.
62.5 (2.32)	300

APPROXIMATE WEIGHT
9,375

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

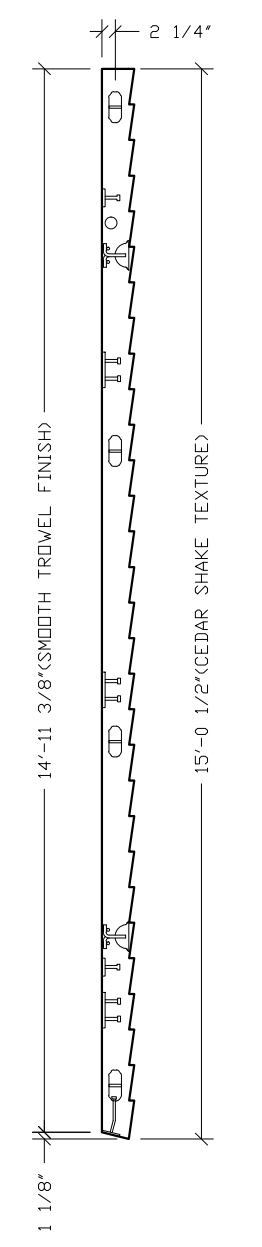
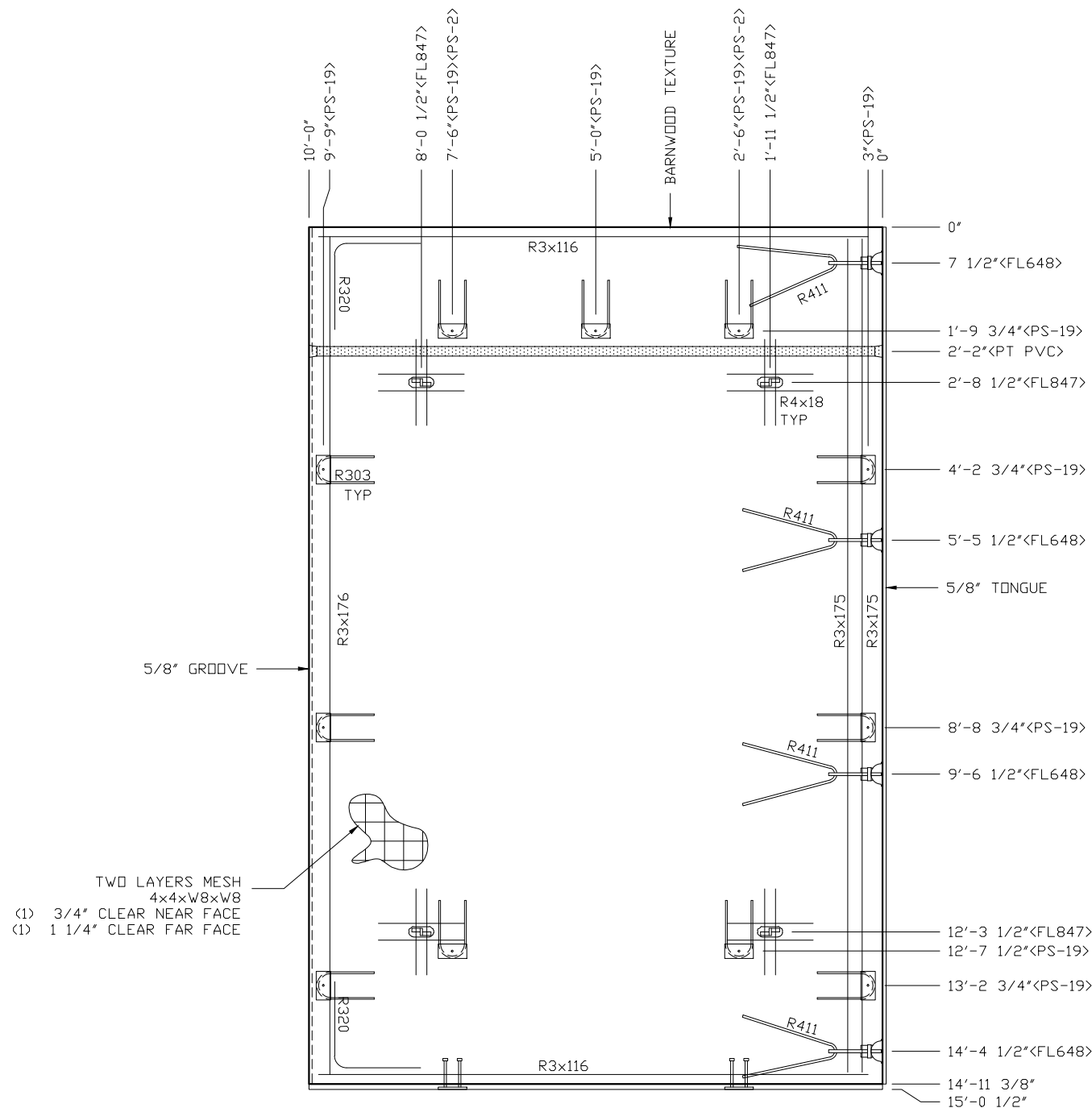
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CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"		11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

ROOF SLAB
MARK R2-R

DWG NO. S-31	SHEET 31	REV. 44
-----------------	-------------	------------



TWO LAYERS MESH
4x4xW8xW8
(1) 3/4" CLEAR NEAR FACE
(1) 1 1/4" CLEAR FAR FACE

NOTES:

1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
2. EXCEPT R303, R411, R3x175 & R4x18, BARS TO BE PLACED IN PAIRS, ONE EACH FACE OF PANEL W/ 3/4" CLR NF & 1 1/4" CLR FF
3. PLACE BARS R4x18 UP IN FORM W/ 1" COVER.
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	11
FL-847	4
FL-648	4
R411	4
R303	11
R3x116	4
R3x175	2
R3x176	2
R320	4
1" PVC SCH40 x9'-6"	1
PS-2	2
R4x18	16

CU. FT. CONC.	SQ. FT. W.W.F.
62.5 (2.32)	300

APPROXIMATE WEIGHT
9,375

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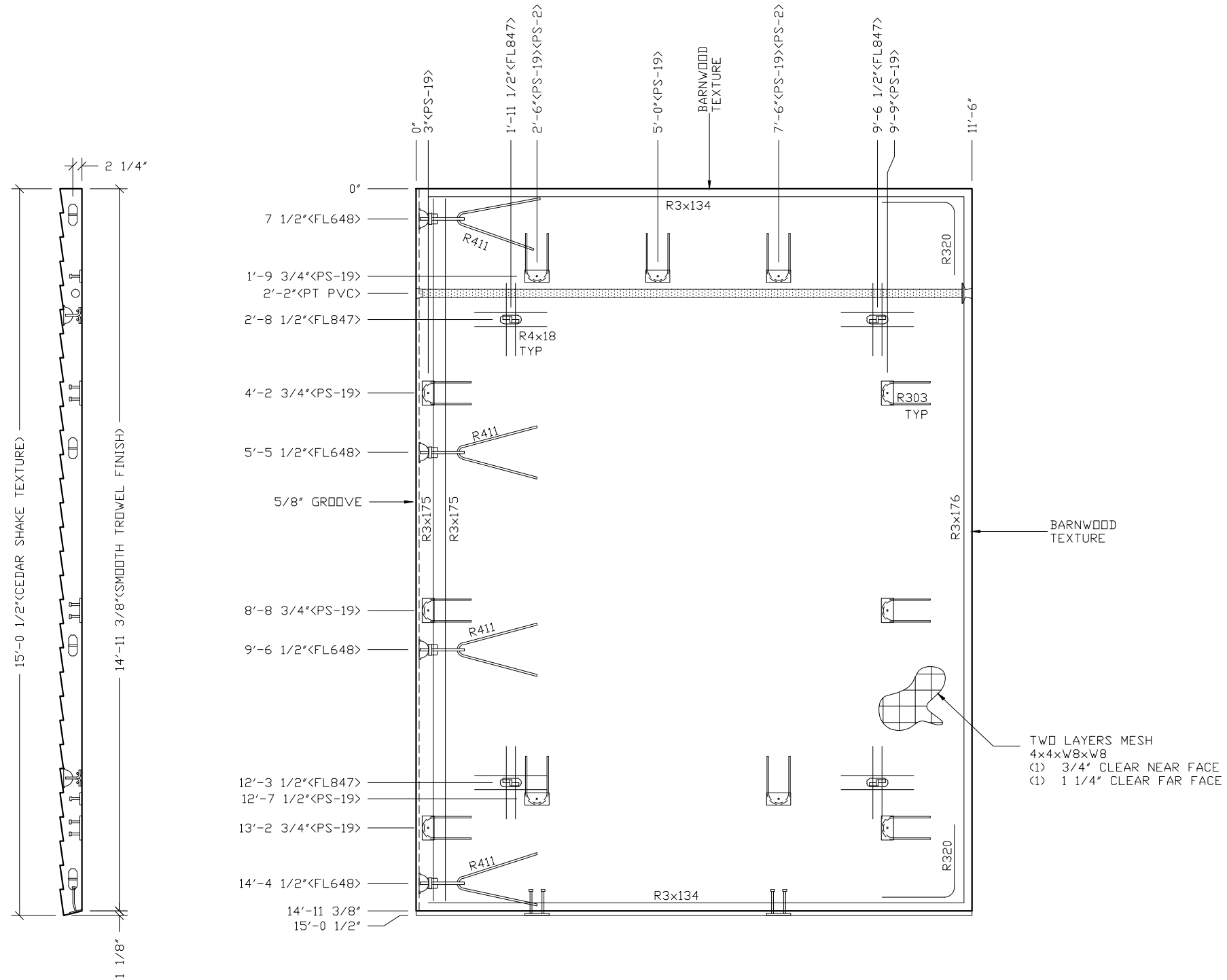
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

DWG. NO.	SHEET	REV.
S-32	32	44
ROOF SLAB MARK R2-L		



NOTES:

1. ROOF THICKNESS = 4 1/2" MIN + TEXTURE
2. EXCEPT R303, R411, R3x175 & R4x18, BARS TO BE PLACED IN PAIRS, ONE EACH FACE OF PANEL W/ 3/4" CLR NF & 1 1/4" CLR FF
3. PLACE BARS R4x18 UP IN FORM W/ 1" COVER.
4. ALL OTHER BARS TO BE CENTERED IN PANEL.

EMBEDDED MATERIALS	
ITEM	QTY
PS-19	11
FL-847	4
FL-648	4
R411	4
R303	11
R3x134	4
R3x175	2
R3x176	2
R320	4
1" PVC SCH40 x11'-0"	1
PT CHUCK	1
PS-2	2
R4x18	16

CU. FT. CONC.	SO. FT. W.W.F.
71.9 (2.66)	344
APPROXIMATE WEIGHT	
10,785	

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Precast Products

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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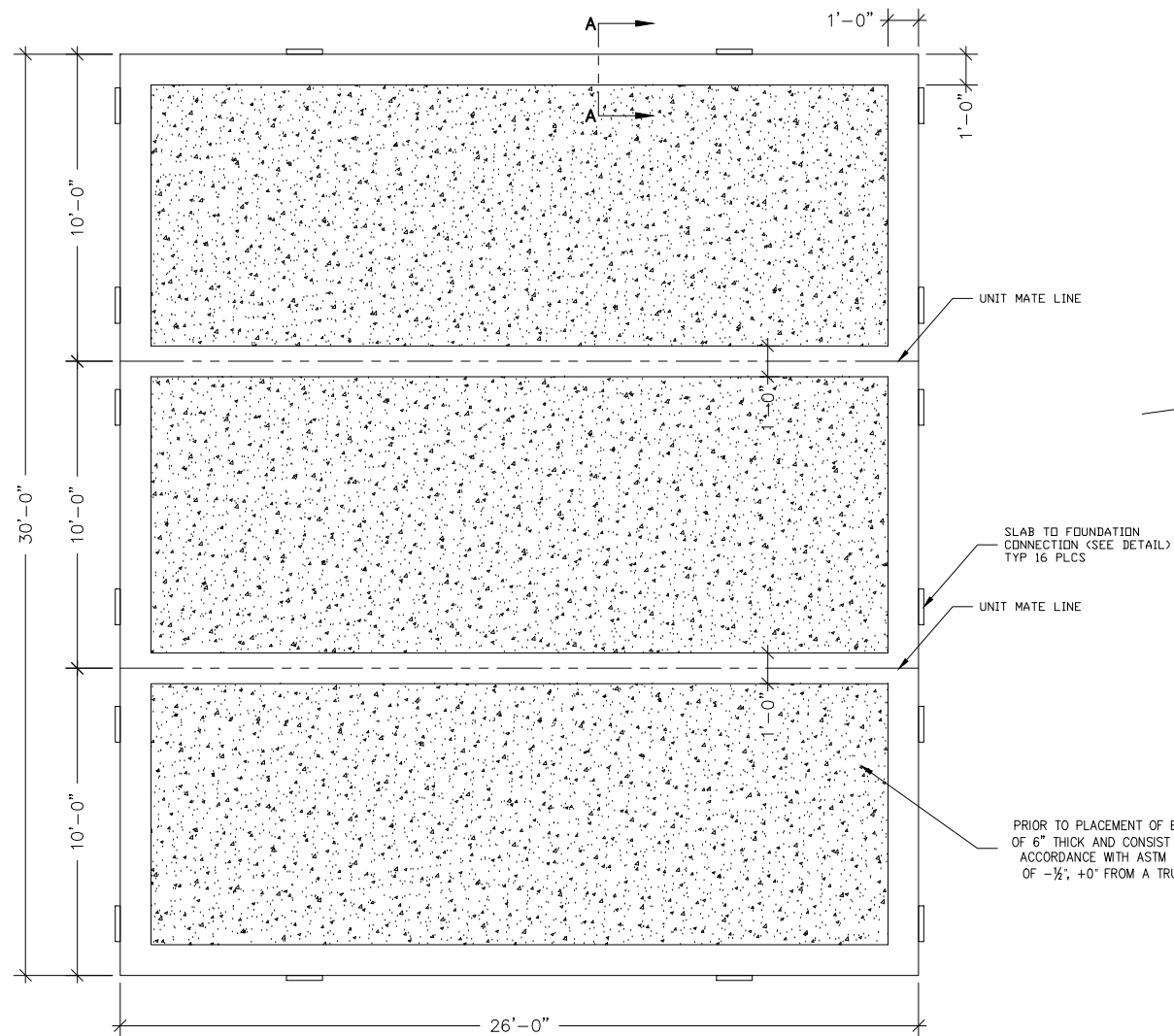
CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE

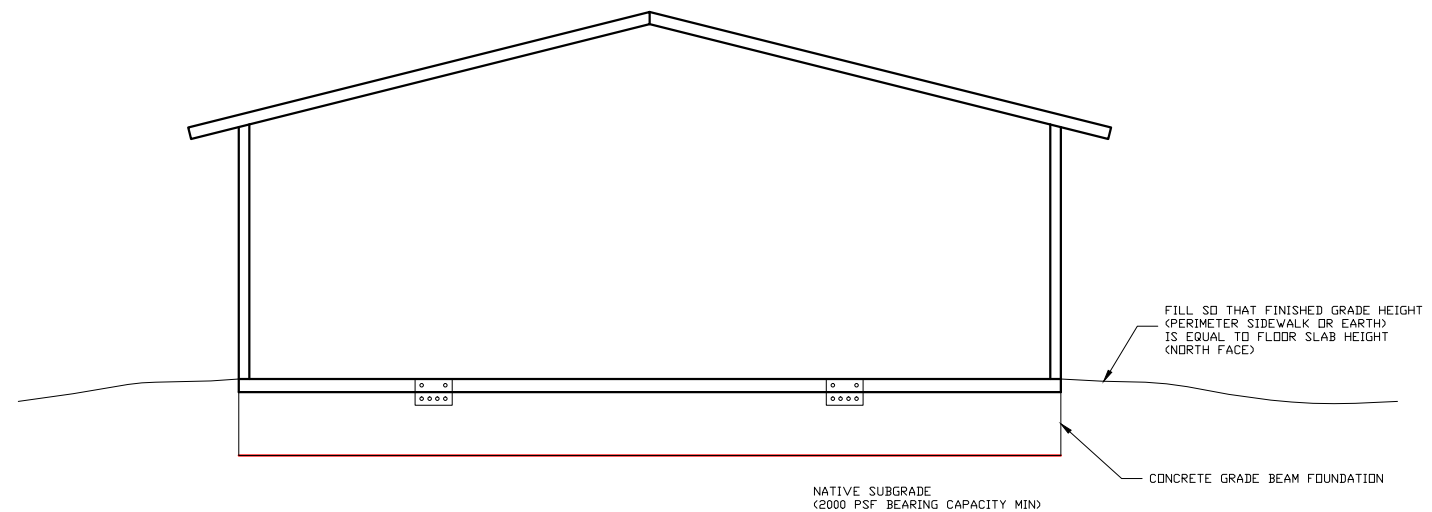
SCALE	3/8"=1'-0"	DATE	10-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	32

**ROOF SLAB
MARK R3-L**

DWG NO.	SHEET	REV.
S-34	34	44

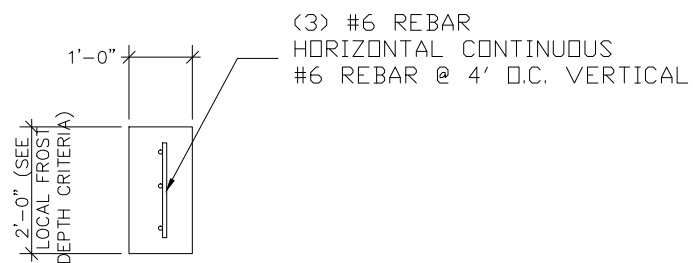


FOUNDATION PLAN VIEW

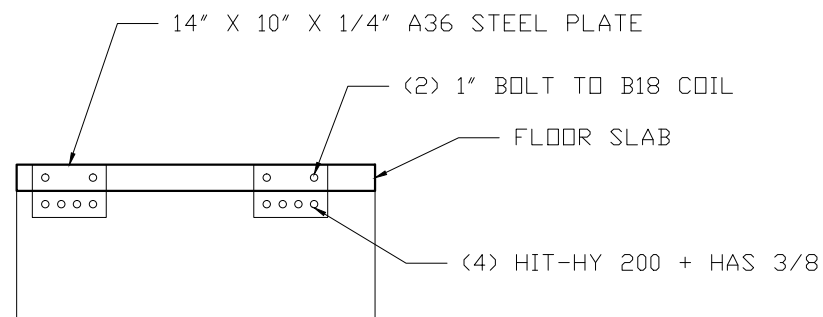


FOUNDATION ELEVATION

PRIOR TO PLACEMENT OF BUILDING A PROPERLY PREPARED SUB-BASE SHALL BE PROVIDED. SUB-BASE SHALL BE A MINIMUM OF 6" THICK AND CONSIST OF 3/4" MINUS CRUSHED ROCK (ROAD BASE MATERIAL) COMPACTED TO 95% OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557. FINISHED SURFACE OF SUB-BASE SHALL BE FLAT AND LEVEL, WITH A MAXIMUM DEVIATION OF -1/2"; +0" FROM A TRUE HORIZONTAL PLANE. REFER TO BUILDING HANDLING SHEET FOR SUB-BASE REQUIREMENTS DURING BUILDING PLACEMENT. (PREPARED SUB-BASE NOT BY CXT).



FOUNDATION SECTION A-A



CONNECTION DETAIL
(BY CXT)

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PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

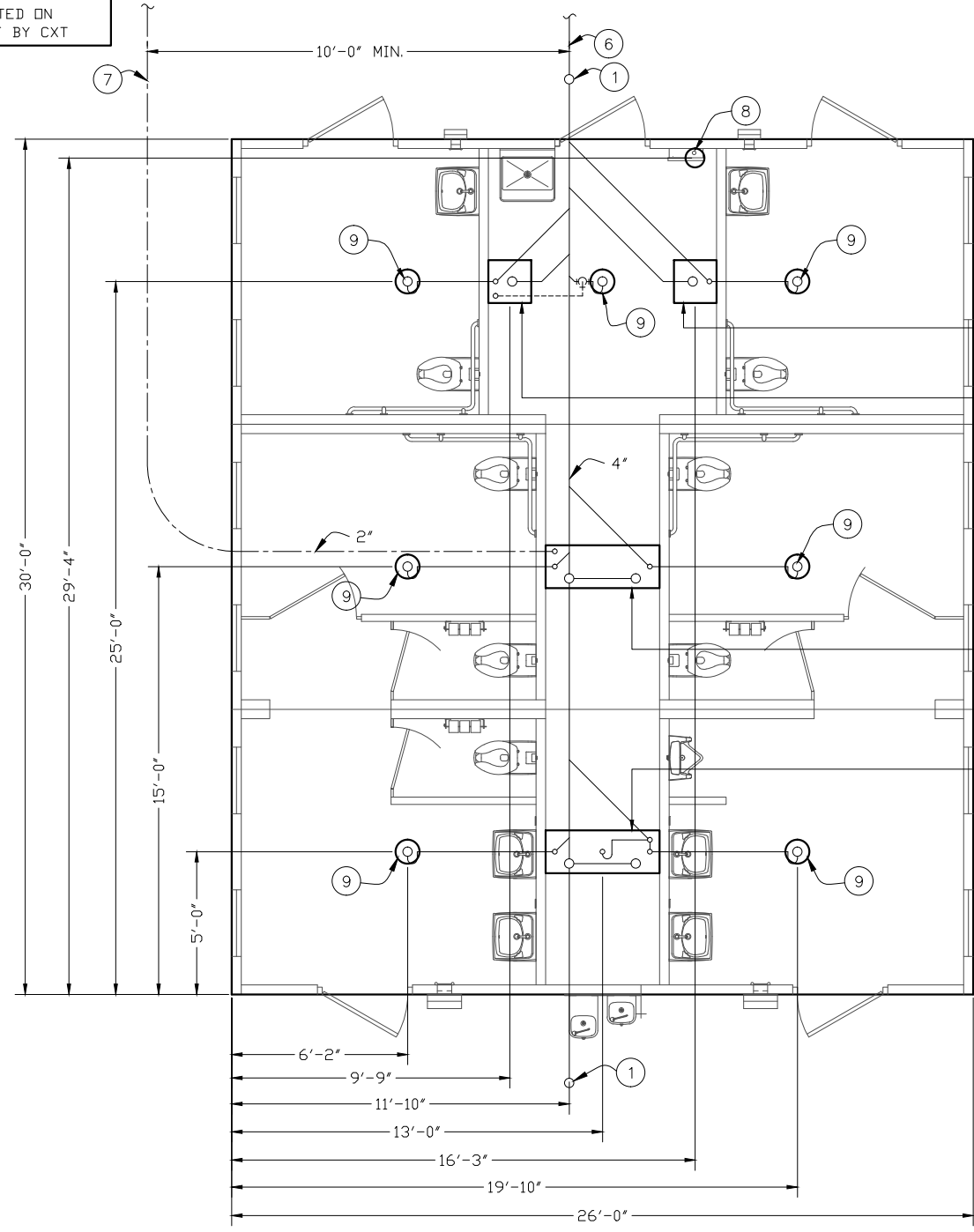
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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/8"=1'-0"	DATE	10-6-17
DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	32

FOUNDATION DETAIL

DWG NO.	SHEET	REV.
S-36	36	44

ALL PIPING INDICATED ON THIS SHEET IS NOT BY CXT



FLOOR DRAIN BLOCKOUTS & BELOW FLOOR PIPING

BELOW FLOOR PIPING - KEY NOTES

1. 4" CLEAN OUT TO GRADE.
2. 2" FLOOR DRAIN, FIELD INSTALLED TRAP PRIMER SYSTEM (1'-6"x4'0" BLOCKOUT)
3. 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6"x4'0" BLOCKOUT)
4. 4" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6"x4'0" BLOCKOUT)
5. 2" HARD COPPER WITH BRAISED FITTINGS WATER SERVICE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE CAP AT END. (1'-6"x4'0" BLOCKOUT)
6. 30" MIN. BURY, PROVIDE TRACER TAPE.
7. MIN. BURY PER LOCAL REQUIREMENTS TO PROTECT AGAINST FREEZING AND DAMAGE.
8. ELECTRICAL STUB UP, (8" DIA BLOCKOUT)
9. 2" FLOOR DRAIN, FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (10" DIA BLOCKOUT)
10. 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6" x 1'-6" BLOCKOUT)
11. 4" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (1'-6" x 1'-6" BLOCKOUT)

PIPING LEGEND

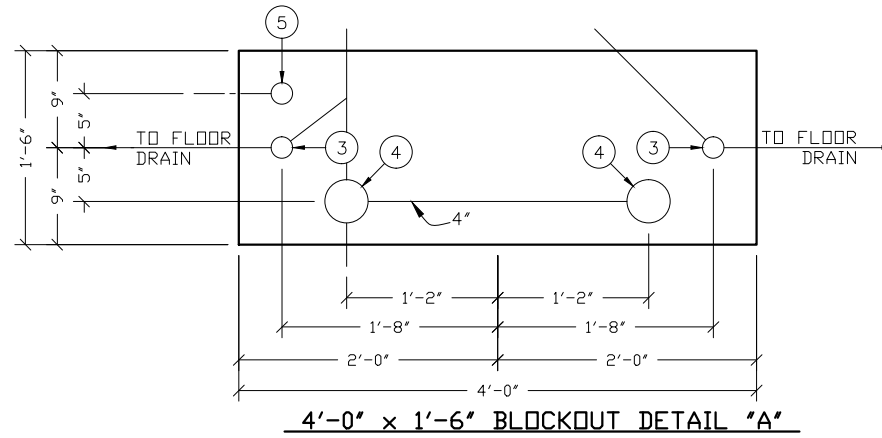
- BELOW FLOOR VENT PIPING SCH 40 ABS TYPE DWV
- BELOW FLOOR WASTE PIPING SCH 40 ABS TYPE DWV
- 2" HARD COPPER W/ BRAISED FITTINGS WATER SERVICE

SEE 1'-6" x 1'-6" BLOCKOUT DETAIL "D"

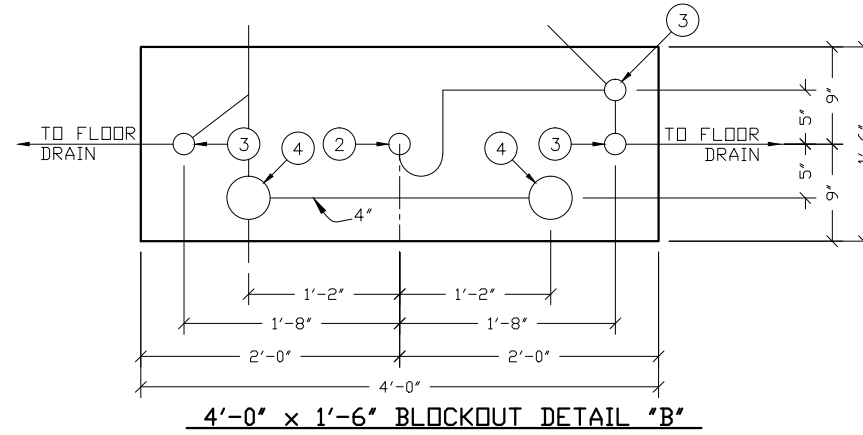
SEE 1'-6" x 1'-6" BLOCKOUT DETAIL "C"

SEE 4'-0" x 1'-6" BLOCKOUT DETAIL "A"

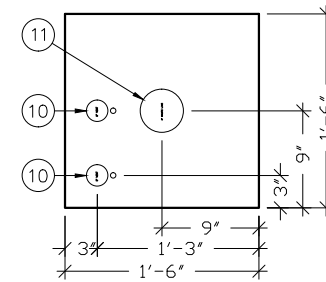
SEE 4'-0" x 1'-6" BLOCKOUT DETAIL "B"



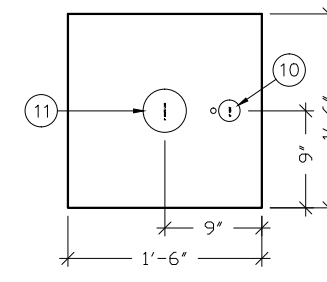
4'-0" x 1'-6" BLOCKOUT DETAIL "A"



4'-0" x 1'-6" BLOCKOUT DETAIL "B"



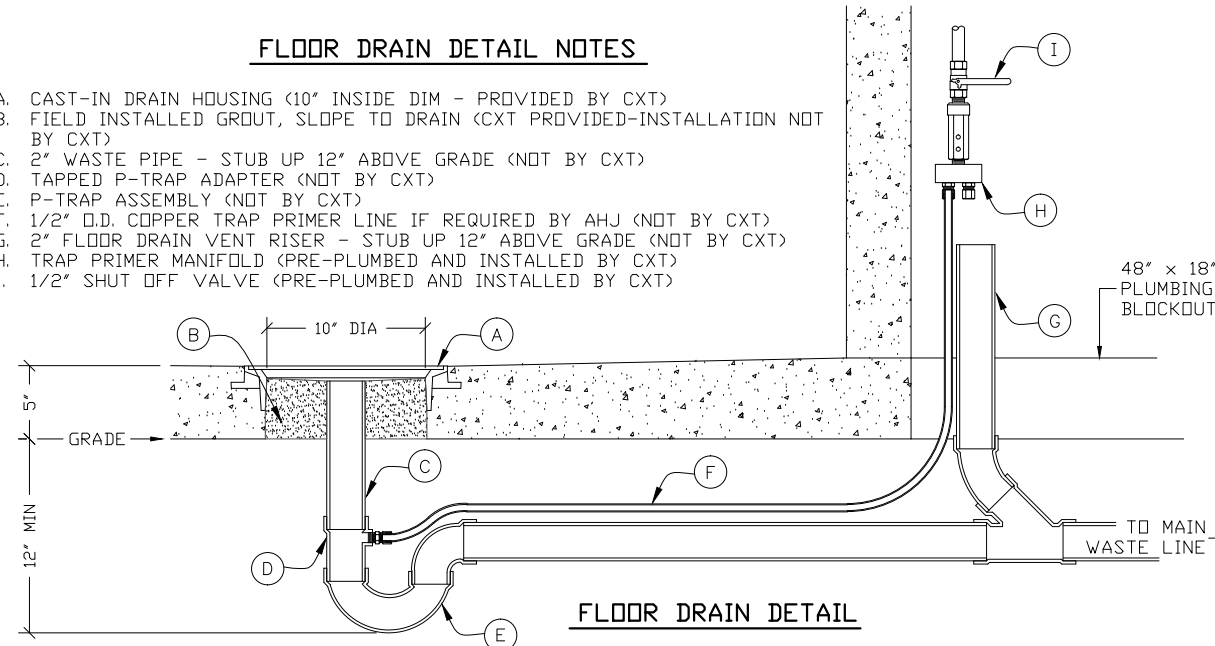
1'-6" x 1'-6" BLOCKOUT DETAIL "C"



1'-6" x 1'-6" BLOCKOUT DETAIL "D"

FLOOR DRAIN DETAIL NOTES

- A. CAST-IN DRAIN HOUSING (10" INSIDE DIM - PROVIDED BY CXT)
- B. FIELD INSTALLED GROUT, SLOPE TO DRAIN (CXT PROVIDED-INSTALLATION NOT BY CXT)
- C. 2" WASTE PIPE - STUB UP 12" ABOVE GRADE (NOT BY CXT)
- D. TAPPED P-TRAP ADAPTER (NOT BY CXT)
- E. P-TRAP ASSEMBLY (NOT BY CXT)
- F. 1/2" O.D. COPPER TRAP PRIMER LINE IF REQUIRED BY AHJ (NOT BY CXT)
- G. 2" FLOOR DRAIN VENT RISER - STUB UP 12" ABOVE GRADE (NOT BY CXT)
- H. TRAP PRIMER MANIFOLD (PRE-PLUMBED AND INSTALLED BY CXT)
- I. 1/2" SHUT OFF VALVE (PRE-PLUMBED AND INSTALLED BY CXT)



FLOOR DRAIN DETAIL

- NOTES: 1. SEE DRAWING THIS SHEET FOR SIZE AND LOCATION OF FLOOR BLOCKOUTS
2. ALL PLUMBING SHOWN FOR REFERENCE ONLY AND IS TO BE FIELD INSTALLED.

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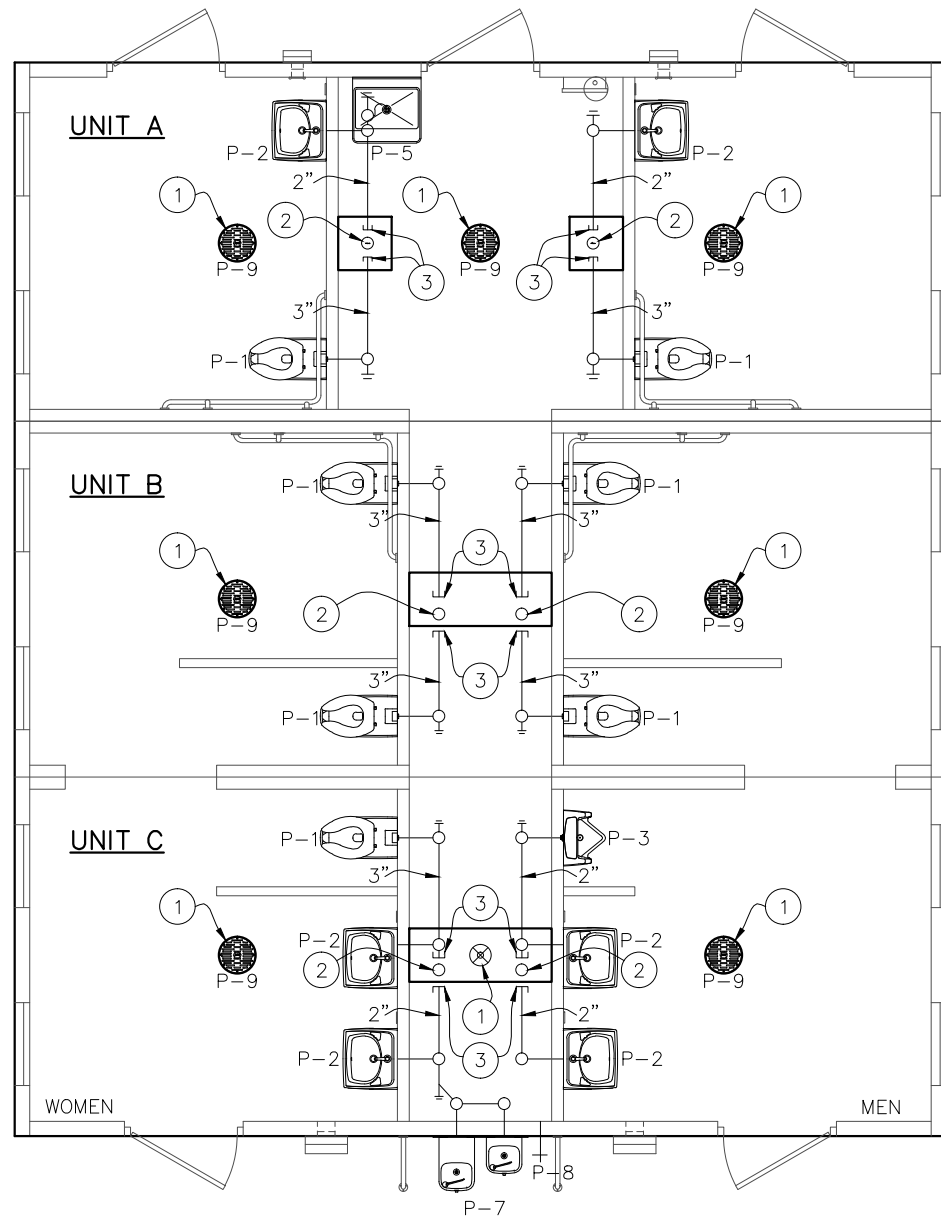
901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	10-6-17
DRAWN	MATT BRANCO	FILE NO.	S-211
CHECKED	RDW	PLOT	64

FLOOR DRAIN LOCATION & BELOW FLOOR PIPING		
DWG NO.	SHEET	REV.
S-37	37	44



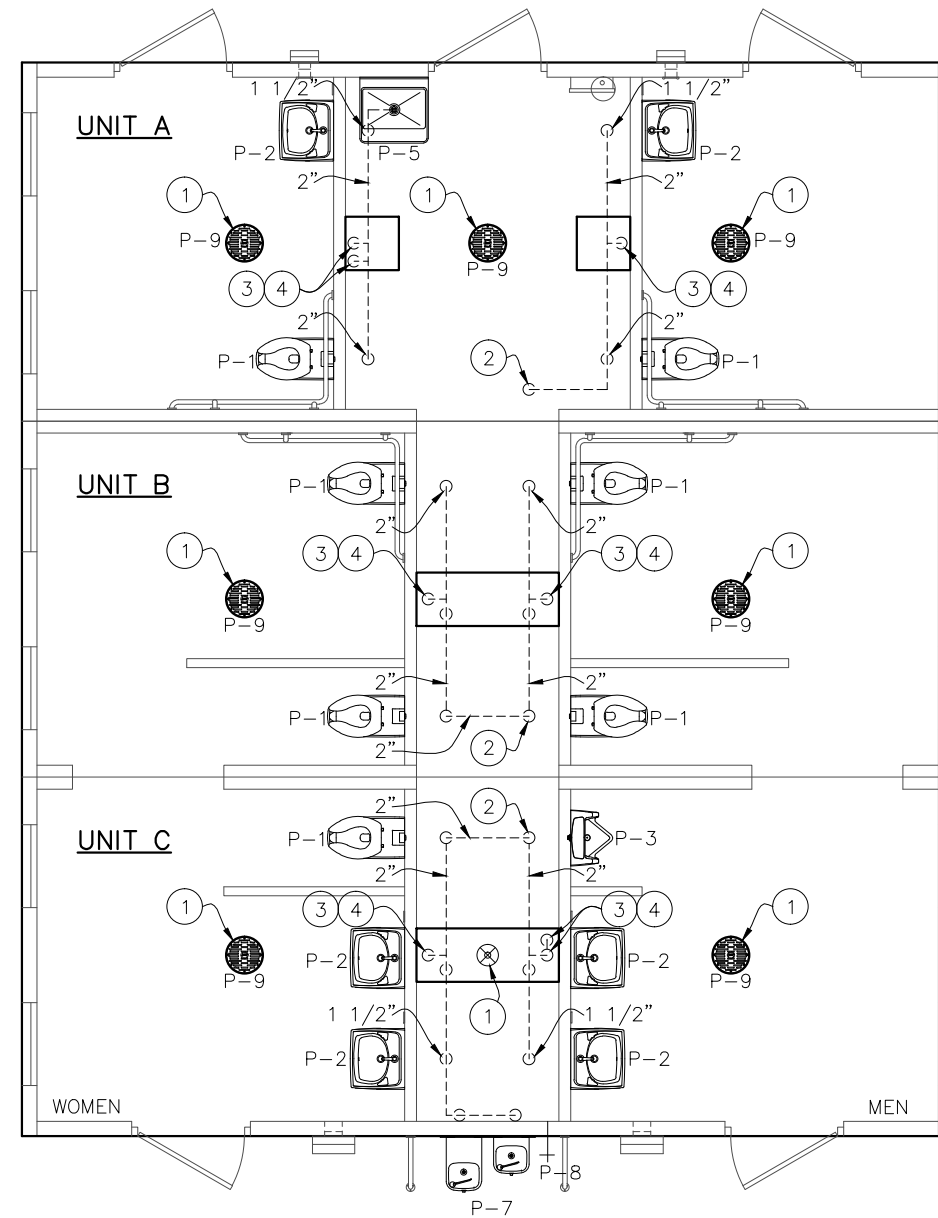
WASTE PIPING

WASTE PIPING – KEY NOTES

- 2" FLOOR DRAIN, FIELD INSTALLED (10" DIA BO) & (1'-6"x4'-0" BO)
- 4" WASTE THROUGH FLOOR, FIELD INSTALLED (18"x18" BO) & (1'-6"x4'-0" BO)
- PROVIDE TEST PLUG IN END OF WASTE PIPE. CONTINUATION OF PIPING IS FIELD INSTALLED.

PIPING LEGEND

- COLD WATER
- HOT WATER
- VENT PIPING SCH 40 ABS TYPE DW
- WASTE PIPE: ABS ASTM D2665, SCH 40, TYPE DW
- FIELD PIPING (NOT BY CXT)



VENT PIPING

VENT PIPING – KEY NOTES

- 2" FLOOR DRAIN, FIELD INSTALLED
- 4" VENT THROUGH ROOF.
- 2" VENT WITH TEST PLUG. (18"x18" BO) & (1'-6"x4'-0" BO)
- FIELD INSTALLED 2" VENT PIPING FROM FLOOR DRAINS. (18"x18" BO) & (1'-6"x4'-0" BO)

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Precast Products

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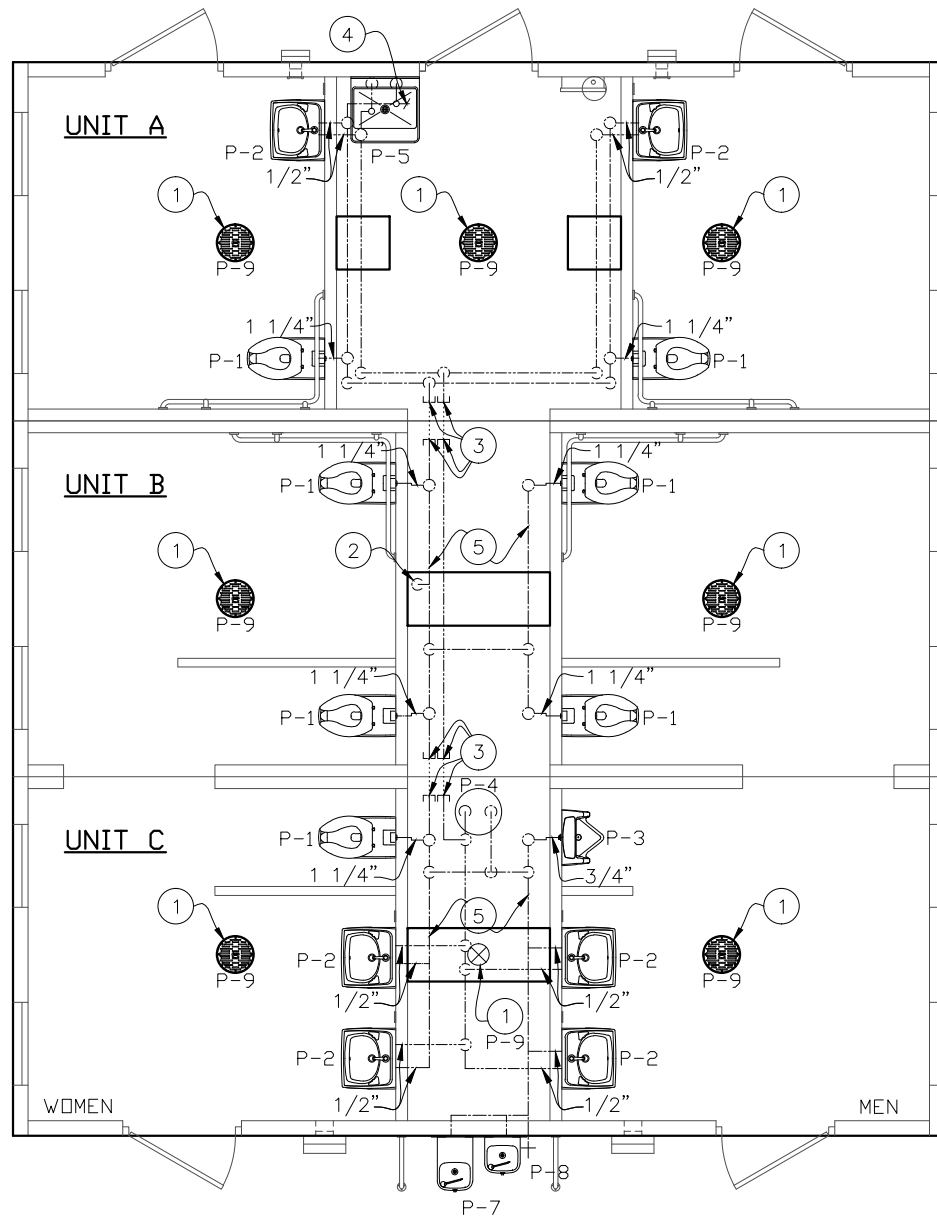
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	64

PLUMBING PLANS

DWG NO.	SHEET	REV.
S-38	38	44

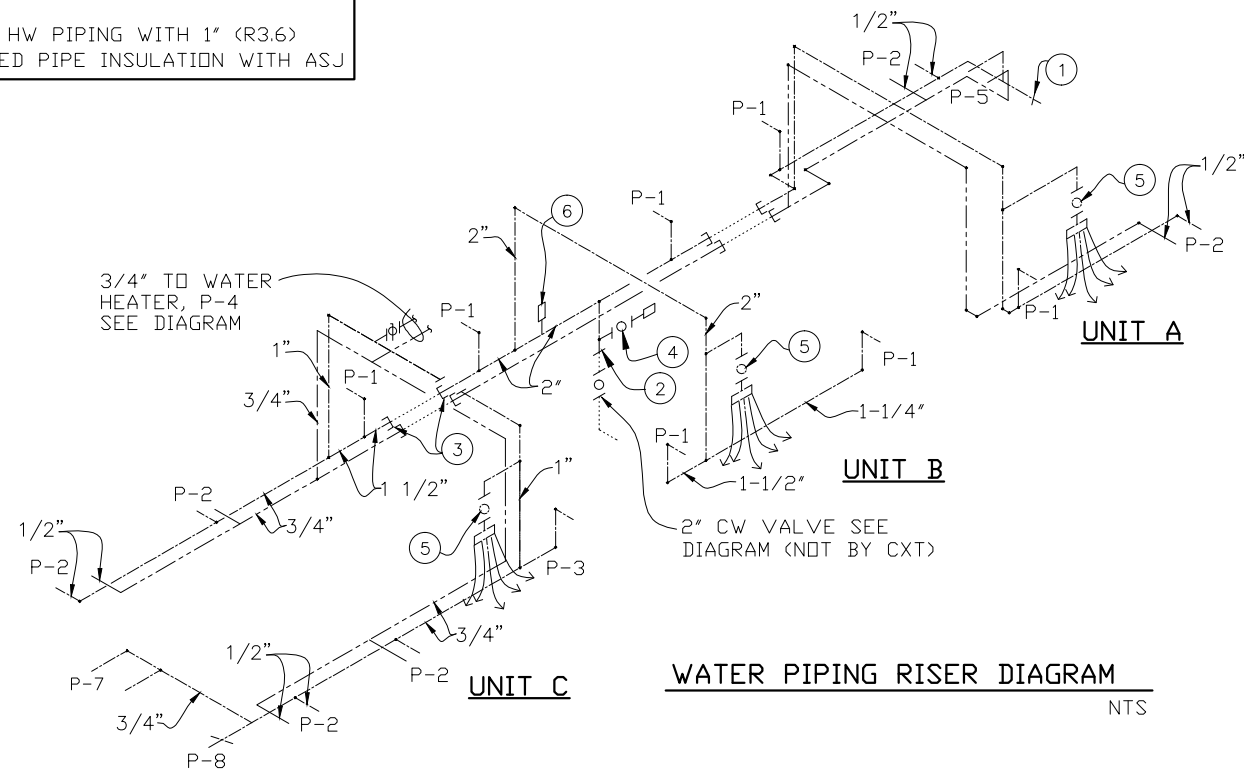


WATER PIPING

WATER PIPING - KEY NOTES

1. 2" FLOOR DRAIN, FIELD INSTALLED (10" DIA), (18"x18" BD) & (1'-6"x4'-0" BD)
2. FIELD INSTALLED 2" WATER SUPPLY WITH SHUT-OFF VALVE NEAR FLOOR.
3. CAPPED WATER LINES. CONNECTION BETWEEN SIDES IS TO BE FIELD INSTALLED.
4. 3/4" HOSE BIBB WITH VACUUM BREAKER AND WHEEL HANDLE
5. WATER PIPING ALONG WALL, SEE DIAGRAM ON S-39.
6. WATER HEATER SECURED TO WALL
7. HOT WATER PIPING AT CEILING, INSTALL TO MISS LIGHT FIXTURE. INSULATE WITH 1" PRE MOLDED PIPE INSULATION.

NOTE:
INSULATE HW PIPING WITH 1" (R3.6)
PRE-MOLDED PIPE INSULATION WITH ASJ



WATER PIPING RISER DIAGRAM

NTS

WATER PIPING RISER - KEY NOTES

1. 3/4" HOSE BIBB WITH VACUUM BREAKER & WHEEL HANDLE
2. FACTORY INSTALLED ABOVE GRADE - BELOW GRADE FIELD INSTALLED (BY CXT)
3. PLUGGED WATER LINES TO THIS POINT, BY CXT. PIPING BETWEEN THESE POINTS, FIELD INSTALLED BY CXT.
4. 1/2" AIR QUICK CONNECTION W/ BALL VALVE FOR BLOWING OUT WATER PIPING.
5. 1/2" BALL VALVE & CAPPED CW LINE FOR FIELD INSTALLED TRAP PRIMER VALVE IF REQUIRED BY JURISDICTION HAVING AUTHORITY
6. 3/4" CW TO WATER HEATER, SEE HOT WATER PIPING RISER DIAGRAM.
7. WYE STRAINER

PIPING LEGEND

- COLD WATER
- HOT WATER
- VENT PIPING
- WASTE PIPE: ABS, ASTM D2665, SCH 40, TYPE DWV
- FIELD PIPING (NOT BY CXT)

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CXT Precast Products

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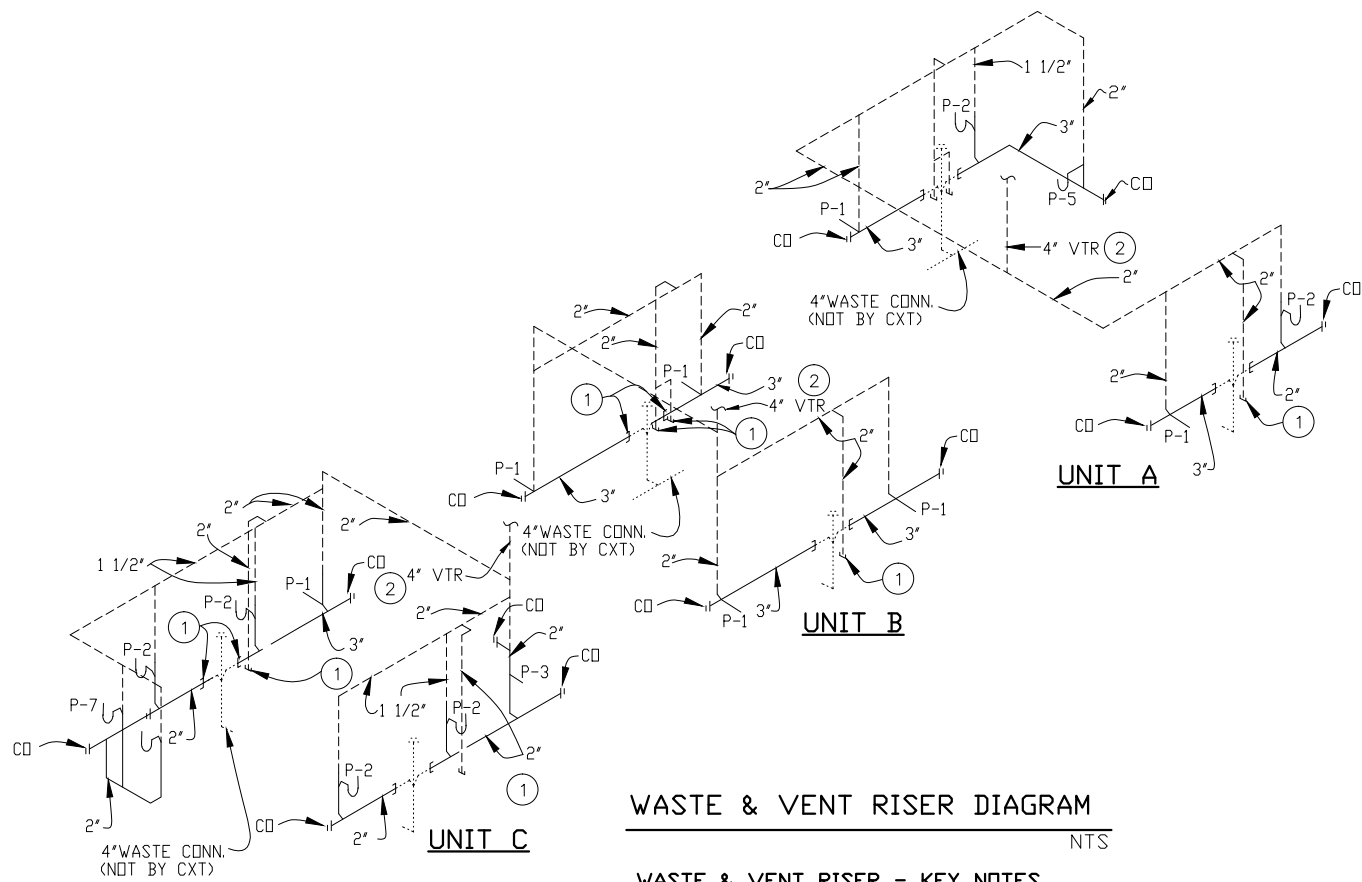
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"		11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	64

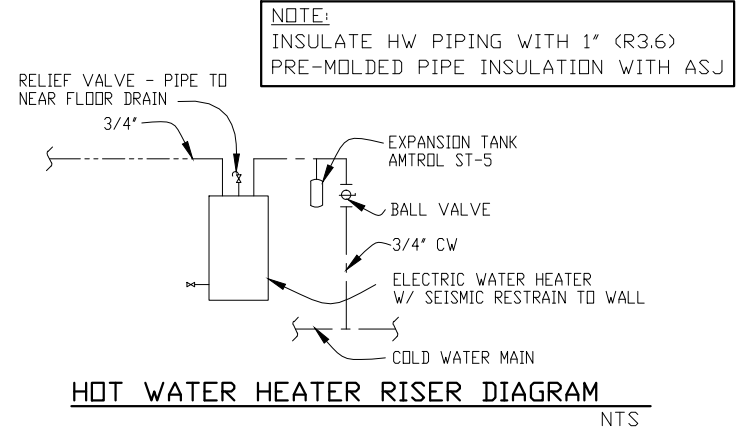
PLUMBING PLANS

DWG NO.	SHEET	REV.
S-39	39	44



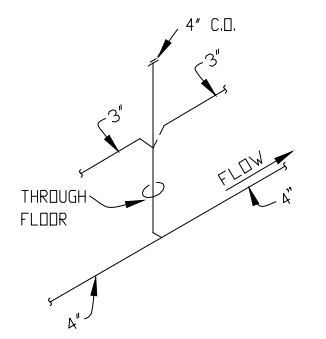
WASTE & VENT RISER DIAGRAM
NTS

WASTE & VENT RISER - KEY NOTES
 1. TO THIS POINT BY CXT.
 2. ALIGN VTR W/BLOCKOUT IN ROOF.



HOT WATER HEATER RISER DIAGRAM
NTS

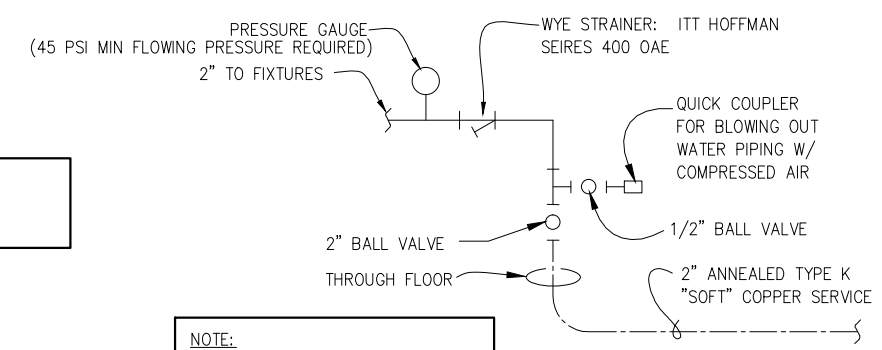
NOTE:
 INSULATE HW PIPING WITH 1" (R3.6)
 PRE-MOLDED PIPE INSULATION WITH ASJ



DETAIL OF FIELD INSTALLED WASTE CONNECTION
NTS

NOTE:
 THIS WORK IS BY CXT

NTS



WATER SERVICE DETAIL
NTS

NOTE:
 THIS PIPING IS FIELD INSTALLED BY CXT

NTS

PIPING LEGEND

- COLD WATER
- HOT WATER
- VENT PIPING
- WASTE PIPE: ABS, ASTM D2665, (TYPE DWV)
- FIELD PIPING (BY CXT)

PLUMBING FIXTURE SCHEDULE

SYM	DESCRIPTION	MANUFACTURER	CXT PART NUMBER	FLUSH VALVE/ FAUCET	ACTUATOR	QTY	HW	CW	WASTE	VENT	SUPPLIES / NOTES
P1	VITREOUS WATER CLOSET	AMERICAN STANDARD	2634.101 (W.C.) 5905.100 (W.C. SEAT)	SLOAN "ROYAL" #952-1.28 L-3 W=4"	SLOAN HY33A	7		1 1/4"	3"	2"	
P2	VITREOUS LAVATORY	AMERICAN STANDARD	0356.421 (LAV.)	SYMMONS S-71		6	1/2"	1/2"	1-1/2"	1-1/2"	HAMMER ARRESTOR (2)
P3	VITREOUS URINAL	AMERICAN STANDARD	6515.001 (URINAL)	SLOAN "ROYAL" #995-1	SLOAN HY33A	1		3/4"	2"	2"	
P4	WATER HEATER	AD SMITH	DEL-30 4500 240V	ST-5 EXP TANK		1	3/4"	3/4"	-	-	30 GALLON, ELECTRIC TANK TYPE, 240 VOLTS, SINGLE PHASE. SEE HOT WATER HEATER RISER DIAGRAM.
P-5	MDP SINK	FLORESTONE	FM (RM54193)	MOEN 74998 (RM54221)		1	1/2"	1/2"	3"	2"	
P7	DRINKING FOUNTAIN	HAWS	1119FR, SK1 CANE SKIRT, V2 BARRIER BARS			1		1/2"	1 1/2"	1 1/2"	DUAL HEIGHT - ADA COMPLIANT W/ CANE SKIRT
P8	EXT HOSE BIB	WOODFORD	B-65 LOCKABLE			1		3/4"	-	-	
P9	FLOOR DRAIN	TRAVIS	54960-CXT			7					
		SIoux CHIEF	840-2A			1			2"	2"	TRAP PRIMER- MIFAB MM500, DISTR UNIT- MIFAB

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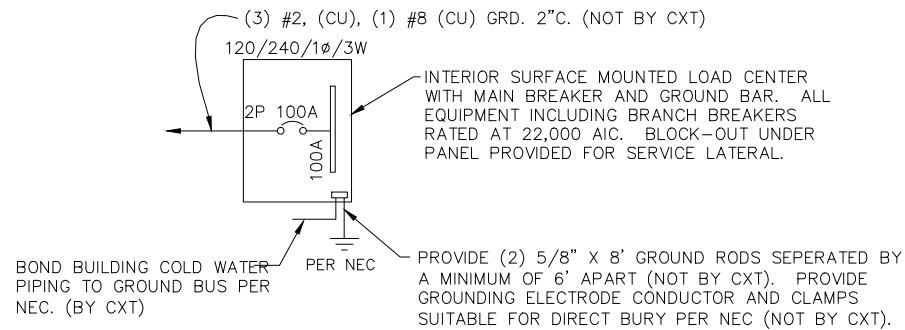
PROJECT TITLE
SANTIAGO
 BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	64

PLUMBING SCHEDULE

DWG NO.	SHEET	REV.
S-40	40	44



ONE-LINE POWER DIAGRAM
NTS

GENERAL ELECTRICAL NOTES

- RECESSED JUNCTION BOXES FOR SINGLE DEVICES SHALL HAVE SINGLE GANG MUD RINGS CAST IN CONCRETE WALLS.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED BY CIRCUIT BREAKERS, OR BY OTHER GFCI RECEPTACLES.
- ALL CONDUIT SHALL BE SIZED PER NEC. (SEE REF TABLE) EXPOSED CONDUIT SHALL BE EMT/FMC, RECESSED SHALL BE PVC.

WIRE SIZE	1/2" EMT	3/4" EMT
14	TYPE THHN 12 MAX	TYPE THHN 22 MAX
12	TYPE THHN 9 MAX	TYPE THHN 16 MAX
10	TYPE THHN 5 MAX	TYPE THHN 10 MAX

WIRE SIZE	1/2" ENT	3/4" ENT
14	TYPE THHN 10 MAX	TYPE THHN 18 MAX
12	TYPE THHN 7 MAX	TYPE THHN 13 MAX
10	TYPE THHN 4 MAX	TYPE THHN 8 MAX

WIRE SIZE	1/2" FMC	3/4" FMC
14	TYPE THHN 13 MAX	TYPE THHN 22 MAX
12	TYPE THHN 9 MAX	TYPE THHN 16 MAX
10	TYPE THHN 6 MAX	TYPE THHN 10 MAX
- INSTALL ALL WIRING IN CONDUIT OR RELATED ENCLDSURES.
- ALL ELECTRICAL INSTALLATIONS SHALL MEET THE 2014 OREGON ELECTRICAL SPECIALTY CODE (2014 NEC)
- MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER, THHN INSULATION UNLESS NOTED OTHERWISE.
- ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF J-BOXES, ETC..
- PROVIDE 2 POLE 30A DISCONNECT FOR WATER HEATER. WATER HEATER CIRCUIT TO BE #10 AWG.

PANEL SCHEDULE												
AMP _____ 100 _____		PANEL _____		TOTAL CONNECTED VA LOAD _____ 6,620 _____								
SURFACE MOUNT		120/240V, 1P, 3W		TOTAL CALCULATED VA LOAD _____ 7,817 _____								
CIRCUIT					LOAD							
NO.	DESCRIPTION	OCB	TYPE	(VA)	(A)	PH	NO.	DESCRIPTION	OCB	TYPE	(VA)	(A)
1	MENS LIGHTS AND EXHAUST FAN	1P/20A	L	231	1.9	A	2	WOMENS LIGHTS AND EXHAUST FAN	1P/20A	N	231	1.9
3	MENS RECEPTACLES	1P/20A	R	360	3.0	B	4	WOMENS RECEPTACLES	1P/20A	R	360	3.0
5	EXTERIOR LIGHTS	1P/20A	C	56	.5	A	6	CHASE LIGHTS	1P/20A	N	84	.7
7	WATER HEATER	2P/30A	C	2,250	18.8	B	8	CHASE RECEPTACLE	1P/20A	R	180	1.5
9			C	2,250	18.8	A	10	FAMILY ASSIST #2 LIGHT/EXHAUST FAN	1P/20A	N	129	1.1
11	FAMILY ASSIST #1 LIGHT/EXHAUST FAN	1P/20A	N	129	1.1	B	12	FAMILY ASSIST #2 RECEPTACLE	1P/20A	R	180	1.5
13	FAMILY ASSIST #1 RECEPTACLE	1P/20A	R	180	1.5	A	14					
15						B	16					
17						A	18					
19						B	20					
21						A	22					
23						B	24					
25						A	26					
27						B	28					
29						A	30					
31						B	32					
							LOAD		CONNECTED		CALCULATED	
							(C)ONTINUOUS		4,556 X 1.25		5,695 VA	
							(R)EC (1ST 10KVA)		1,260 X 1.00		1,260 VA	
							(N)ON-CONTINUOUS		573 X 1.00		573 VA	
							(L)ARGEST MOTOR		231 X 1.25		289 VA	
							TOTAL LOAD		6,620 VA		7,817 VA	
											32.6 AMPS	

NOTE: MAXIMUM ALLOWABLE AIC IS 22K AMPS, PANEL MODIFICATIONS WILL BE REQUIRED (NOT BY CXT) IF TRANSFORMER CAPACITY EXCEEDS 175 KVA.

LIGHTING FIXTURE SCHEDULE			
FIXTURE NUMBER	VOLTAGE	WATTS	DESCRIPTION
A	120	28	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8-4-28W HP-4000K-120-CP-WHT-WET-DCC-TX/SD SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROUND LENS, LOW TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENSOR ACTIVATED W/ ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTROL
B	120	14	SWDOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC EXTERIOR, VANDAL RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRISMATIC LENS, BUILT IN PHOTOELECTRIC CONTROL
C	120	28	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8-4-28W HP-4000K-120-CP-WHT-WET-DCC-TX/SD SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROUND LENS, LOW TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENSOR ACTIVATED

NOTE: THE SOURCE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A MINIMUM OF 45 LUMENS PER WATT.

EXHAUST FAN SCHEDULE							
SYM	MFR	MODEL #	CFM	SONES	VOLTS	AMPS	NTS.
EF-1	FANTECH	RVF-6XL	381	6.0	120	1.46	1
EF-2	FANTECH	RVF-4XL	193	6.0	120	0.84	1

NOTE 1. FANS LISTED FOR WET LOCATION, CONTROL VIA OCCUPANCY SENSOR. LOCATE OPEN FACE E-BOX ON EXTERIOR SIDE OF PANEL.

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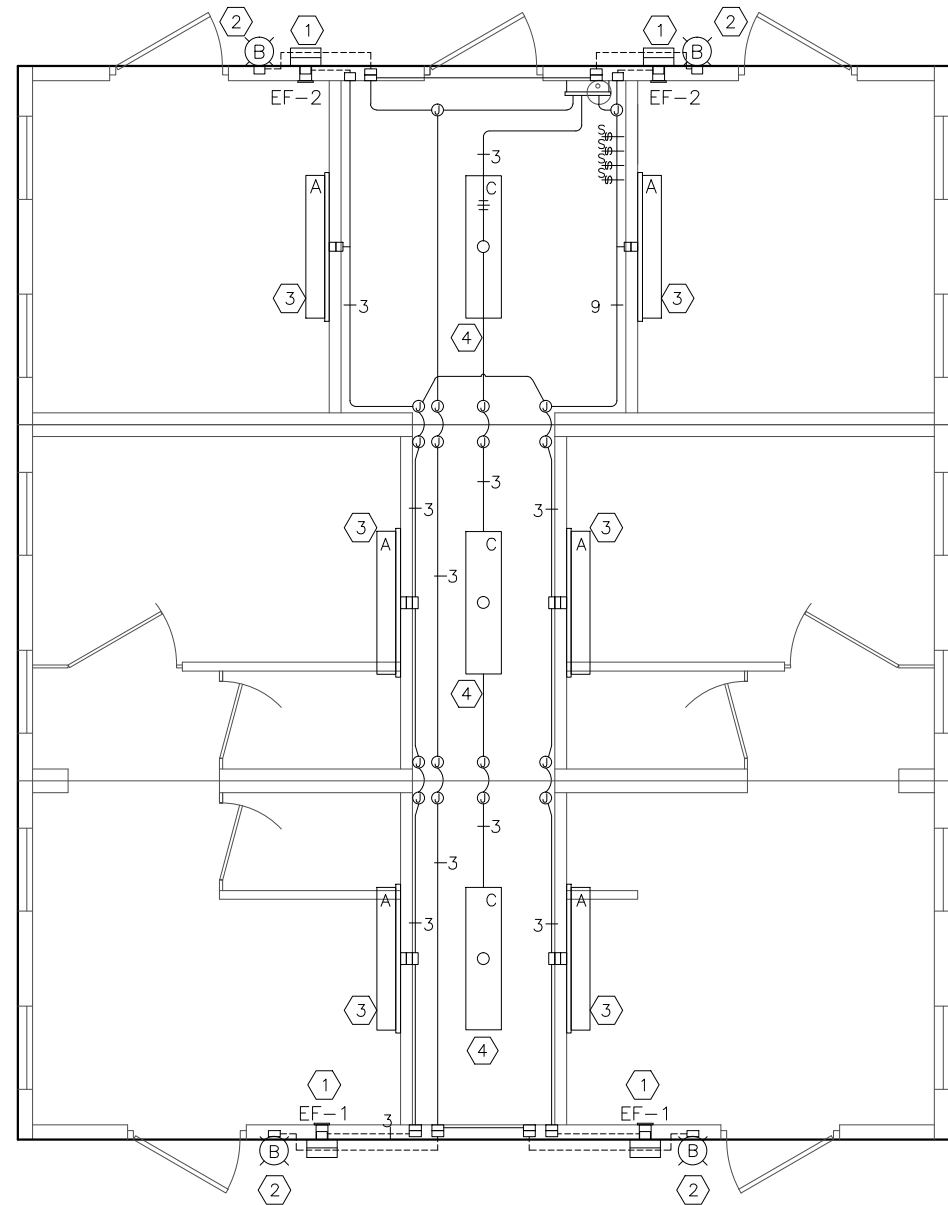
PROJECT TITLE
SANTIAGO
BUILDING NUMBER S-211

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	10-21-17
DRAWN	ROB D WALKER	FILE NO.	S-211
CHECKED	RDW	PLOT	64

**ELECTRICAL NOTES,
LEGEND & SCHEDULE**

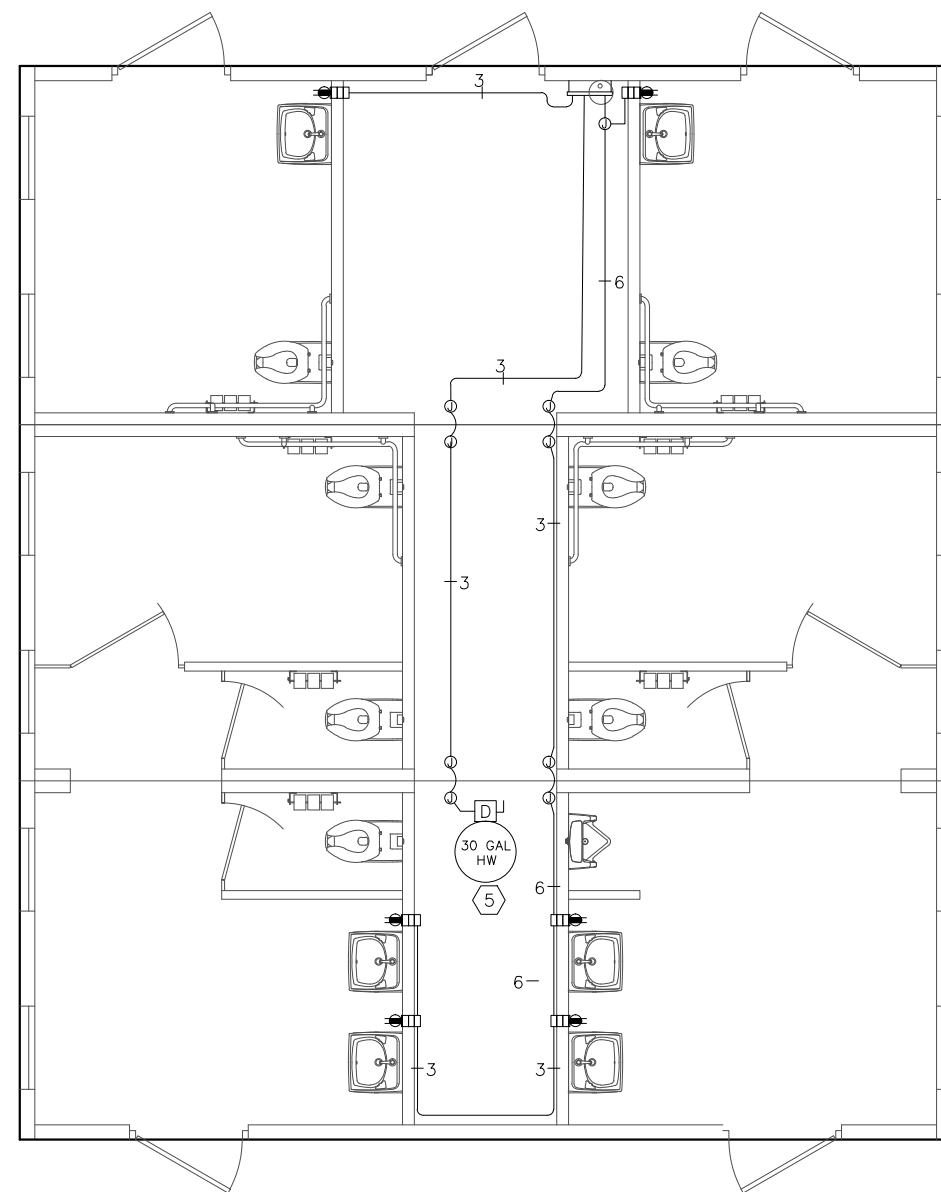
DWG NO.	SHEET	REV.
S-41	41	
		44



LIGHTING & EXHAUST FAN PLAN

KEY NOTES

- ① WIRE FANS THROUGH OCCUPANCY SENSOR AND SPEED SWITCH IN CHASE. SPEED SWITCH FOR FANS LOCATED BY PANEL.
- ② EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCELL.
- ③ RESTROOM LIGHTS AND EXHAUST FANS ARE TO OPERATED BY OCCUPANCY SENSOR.
- ④ CHASE LIGHTS OPERATED BY OCCUPANCY SENSOR.
- ⑤ PROVIDE WATER HEATER WITH 30 AMP LOCAL SAFETY DISCONNECT, (3) 10 AWG, 240VAC, 30 AMP CIRCUIT.



RECEPTACLE & HWT PLAN

SYMBOLS LEGEND

- | | | | | | |
|-----|---|-----|---|---|--------------------------|
| ① | NOTE REFERENCE | --- | CONCEALED CONDUIT | ⓧ | PANEL OR DEVICE AS NOTED |
| ⓧ | COMBINATION SWITCH AND DUPLEX RECEPTACLE (GFI) | ○ | LOAD CENTER "A" | T | THERMOSTAT |
| ⓧ | DUPLEX RECEPTACLE (x = BREAKER # IF SHOWN) | ○ X | WALL MOUNTED FLUORESCENT FIXTURE | ▬ | HEATER |
| ⓧ | GFI DUPLEX RECEPTACLE (x = BREAKER # IF SHOWN) | ○ X | CEILING MOUNTED FLUORESCENT FIXTURE | ◇ | CEILING FAN |
| \$ | ON / OFF SWITCH (M-MOTOR RATED) | ⓧ | EXTERIOR LIGHT FIXTURE | ■ | EXIT CONTROL |
| \$s | SPEED SWITCH | ⓧ | HAND DRYER | Ⓜ | MAGNETIC DOOR LOCK |
| Ⓜ | JUNCTION BOX | Ⓜ | WATER HEATER | Ⓢ | EXIT SENSOR |
| □ | RECESSED JUNCTION BOX | Ⓜ | OCCUPANCY SENSOR WITH RECESSED JUNCTION BOX | | |
| — | SURFACE MOUNTED CONDUIT, CROSSHATCH OR SLASH AND NUMBER | Ⓜ | SAFETY DISCONNECT | | |
| — | DENOTES WIRES, (ALL #12AWG UNO, UNLESS NOTED) ONE WIRE TO BE GROUND | | | | |

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PROJECT TITLE
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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	3/16"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	64

ELECTRICAL PLAN & SCHEDULE		
DWG NO. S-42	SHEET 42	REV. 44

WALL PANEL W17		
EMBEDDED MATERIALS		
ITEM		QTY
AS-2		2
PS-10		2
PS-2		4
PS-3		2
R303		2
R3x108		4
R3x123		4
R320		8
FLUSH BOWL BO		1
4x4 E-BOX		6
ROUND MUD RING		1
RECT MUD RING		2
LAV BO		2
BLOCKOUT 2" DIA		1
CU. FT. CONC.		SQ. FT. W.W.F.
33.2 (1.23)		200
APPROXIMATE WEIGHT		
4,980		

WALL PANEL W18		
EMBEDDED MATERIALS		
ITEM		QTY
AS-2		7
PS-2		10
PS-19		4
FL-648		4
R411		4
R303		4
R327		2
R3x92		4
R3x98		8
R316		1
R3x180		4
R3x156		2
R320		12
SI-2 MOLD		2
4x4 J-BOX		6
ROUND MUD RING		2
6 1/2" DIA BLOCKOUT		2
40 1/8" x 82 1/4" B.O.		2
BLOCKOUT 3 1/2" DIA		2
B65 HYDRANT		1
CU. FT. CONC.		SQ. FT. W.W.F.
65.6 (2.43)		392
APPROXIMATE WEIGHT		
9,848		

FLOOR SLAB 1		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		24
R303		4
AS-1		4
AS-3		4
R4x112		8
R3x172		12
R3x116		2
RM54960 F.D.		3
R3x65		2
R3x42		32
B.O. 8" DIA		1
PT CHUCK		2
BO 18" x 18"		2
1" PVC SCH40 x 9'-10"		2
CU. FT. CONC.		SQ. FT. W.W.F.
105.6 (3.91)		520
APPROXIMATE WEIGHT		
15,834		

FLOOR SLAB 2		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		22
AS-3		4
AS-1		4
PS-3		2
R303		6
R3x63		2
R4x112		6
R3x172		8
R3x72		4
R3x42		20
R3x116		2
RM54960 F.D.		2
BLOCKOUT 4'-0"x1'-6"		1
1" PVC SCH40 x 9'-6"		2
CU. FT. CONC.		SQ. FT. W.W.F.
105.3 (3.90)		520
APPROXIMATE WEIGHT		
15,800		

FLOOR SLAB 3		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		23
AS-3		4
AS-1		4
PS-3		1
R303		5
R3x63		2
R4x112		6
R3x172		8
R3x72		4
R3x42		20
R3x116		2
RM54960 F.D.		2
BLOCKOUT 4'-0"x1'-6"		1
1" PVC SCH40 x 9'-6"		2
PT CHUCK		2
CU. FT. CONC.		SQ. FT. W.W.F.
105.3 (3.90)		520
APPROXIMATE WEIGHT		
15,800		

ROOF SLAB R1-R		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x134		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x11'-0"		1
PT CHUCK		1
R4x18		16
B.O. 5" DIA		1
PS-2		3
CU. FT. CONC.		SQ. FT. W.W.F.
71.9 (2.66)		344
APPROXIMATE WEIGHT		
10,785		

ROOF SLAB R1-L		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x134		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x11'-0"		1
PT CHUCK		1
R4x18		16
PS-2		3
CU. FT. CONC.		SQ. FT. W.W.F.
71.9 (2.66)		344
APPROXIMATE WEIGHT		
10,785		

ROOF PANEL R2-R		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x116		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x9'-6"		1
PS-2		2
R4x18		16
BLOCKOUT 5" DIA		1
CU. FT. CONC.		SQ. FT. W.W.F.
62.5 (2.32)		300
APPROXIMATE WEIGHT		
9,375		

ROOF PANEL R2-L		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x116		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x9'-6"		1
PS-2		2
R4x18		16
CU. FT. CONC.		SQ. FT. W.W.F.
62.5 (2.32)		300
APPROXIMATE WEIGHT		
9,375		

ROOF PANEL R3-R		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x134		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x11'-0"		1
PT CHUCK		1
PS-2		2
R4x18		16
BLOCKOUT 5" DIA		1
CU. FT. CONC.		SQ. FT. W.W.F.
71.9 (2.66)		344
APPROXIMATE WEIGHT		
10,785		

ROOF PANEL R3-L		
EMBEDDED MATERIALS		
ITEM		QTY
PS-19		11
FL-847		4
FL-648		4
R411		4
R303		11
R3x134		4
R3x175		2
R3x176		2
R320		4
1" PVC SCH40 x11'-0"		1
PT CHUCK		1
PS-2		2
R4x18		16
CU. FT. CONC.		SQ. FT. W.W.F.
71.9 (2.66)		344
APPROXIMATE WEIGHT		
10,785		

INTERIOR PARTITION P1 (2 REQ'D)		
EMBEDDED MATERIALS		
ITEM		QTY
PS-2		1
PS-20		2
B-18		2
R3x66		4
CU. FT. CONC.		SQ. FT. W.W.F.
7.7 (0.28)		31
APPROXIMATE WEIGHT		
1,150		

INTERIOR PARTITION P2 (1 REQ'D)		
EMBEDDED MATERIALS		
ITEM		QTY
PS-2		1
PS-20		2
B-18		2
R3x66		4
CU. FT. CONC.		SQ. FT. W.W.F.
6.4 (0.24)		26
APPROXIMATE WEIGHT		
960		

INTERIOR PARTITION P3 (1 REQ'D)		
EMBEDDED MATERIALS		
ITEM		QTY
PS-20		2
B-18		1
CU. FT. CONC.		SQ. FT. W.W.F.
2.4 (0.09)		10
APPROXIMATE WEIGHT		
363		

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/2"=1'-0"	DATE	11-06-17
DRAWN	DANA B	FILE NO.	S-211
CHECKED	RDW	PLOT	24

MATERIAL LIST

DWG NO.	SHEET	REV.
S-44	44	44