DOUBLE WASHROOM BUILDING VERSION B (WATER SERVICE)

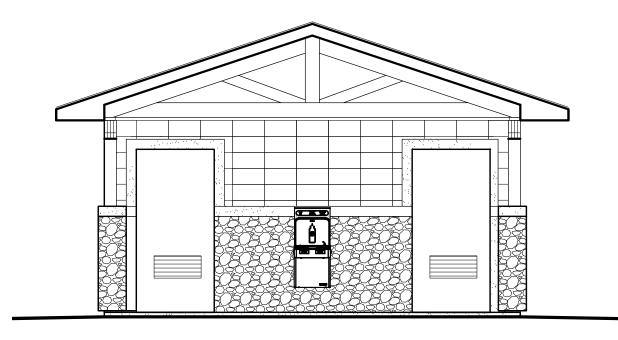
LAC LA BICHE COUNTY, ALBERTA

ARCHITECTURAL SHEET INDEX:

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- A2. FLOOR PLAN / ELECTRICAL FIXTURE LAYOUT
- A3. ELEVATIONS (WASHROOM)
- **A4. ELEVATIONS (EXTERIOR)**
- A5. BUILDING CROSS SECTIONS: A-A, B-B
- A6. PARTIAL FRONT ROOF SECTION, FRONT DECORATIVE COLUMN DETAILS
- A7. BEAM POCKET DETAILS

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- **S1. SPEFICATIONS**
- **S2. FOUNDATION & FOUNDATION SECTIONS**
- S3. LIGHT WEIGHT BLOCK WALL LAYOUT
- **S4. WALL SECTIONS: D TO E**
- S5. WALL SECTIONS: F TO G





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PROJECT DESCRIPTION: DOUBLE WASHROOM W/ WATER SERVICE LOCATION:

LAC LA BICHE COUNTY LOT___, BLOCK__, PLAN_

PROJECT CONTACT:

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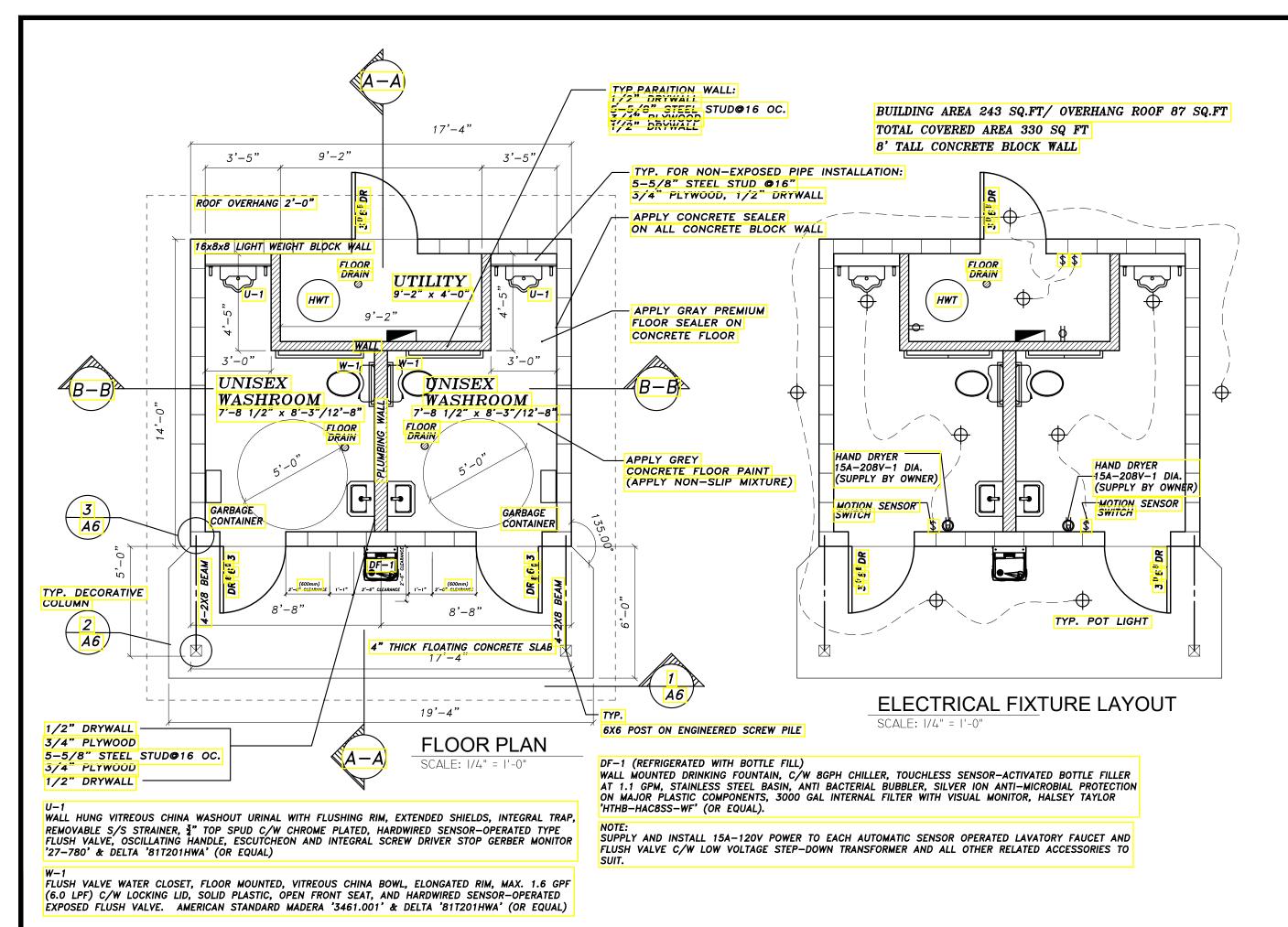
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A1





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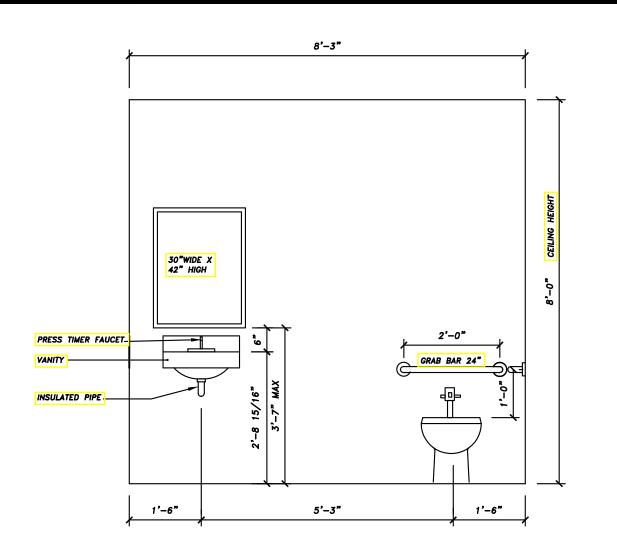
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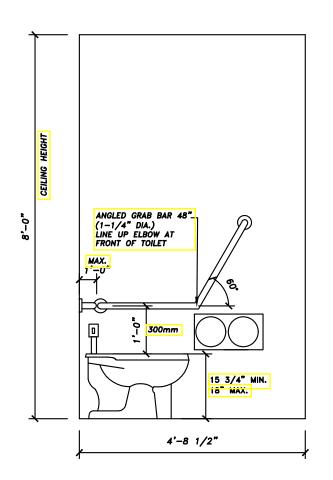
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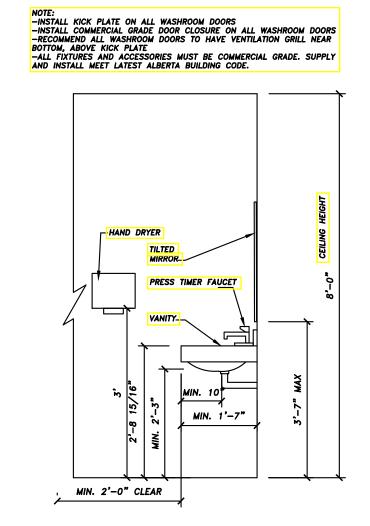
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1'-0" A2

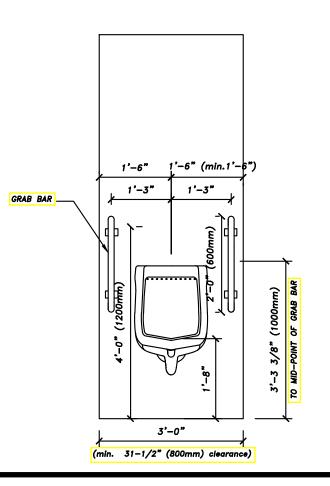






WASHROOM ELEVATION

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





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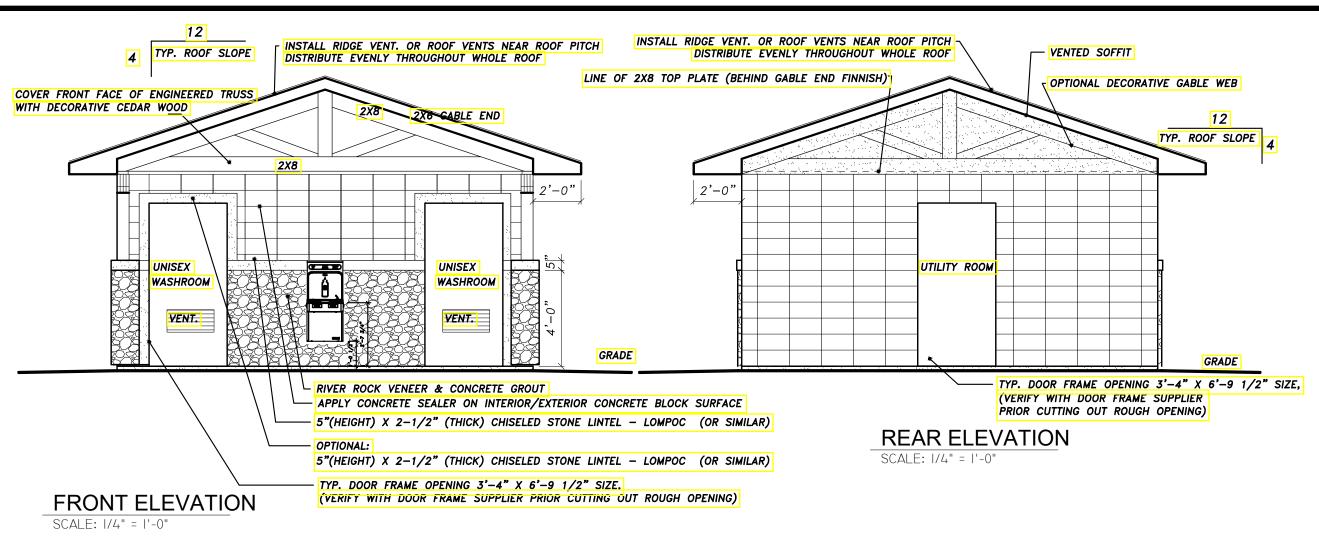
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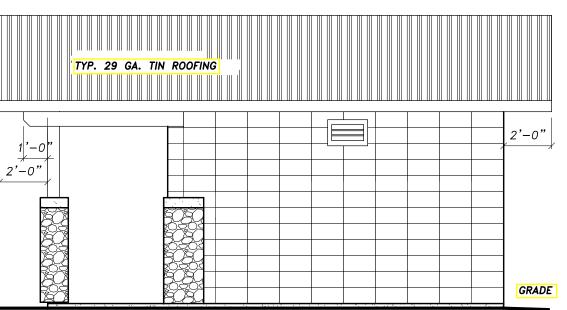
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A-LAC-DBL	WASH
STAGE	DRAWN BY

SCALE PAGE 1/2"=1'-0" A3

ΥD



TYP. 29 GA. TIN ROOFING 2'-0' 2'-0' 7'-8" 1'-6 GRADE - TYPICAL WALL VENTILATION GRILL (16"X8" WALL OPENING SIZE) (AVOID REBAR AND CONCRETE FILLED AREA)

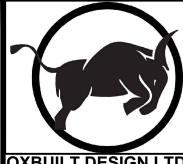


LEFT ELEVATION SCALE: 1/4" = 1'-0"

RIGHT ELEVATION

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

5'-0"



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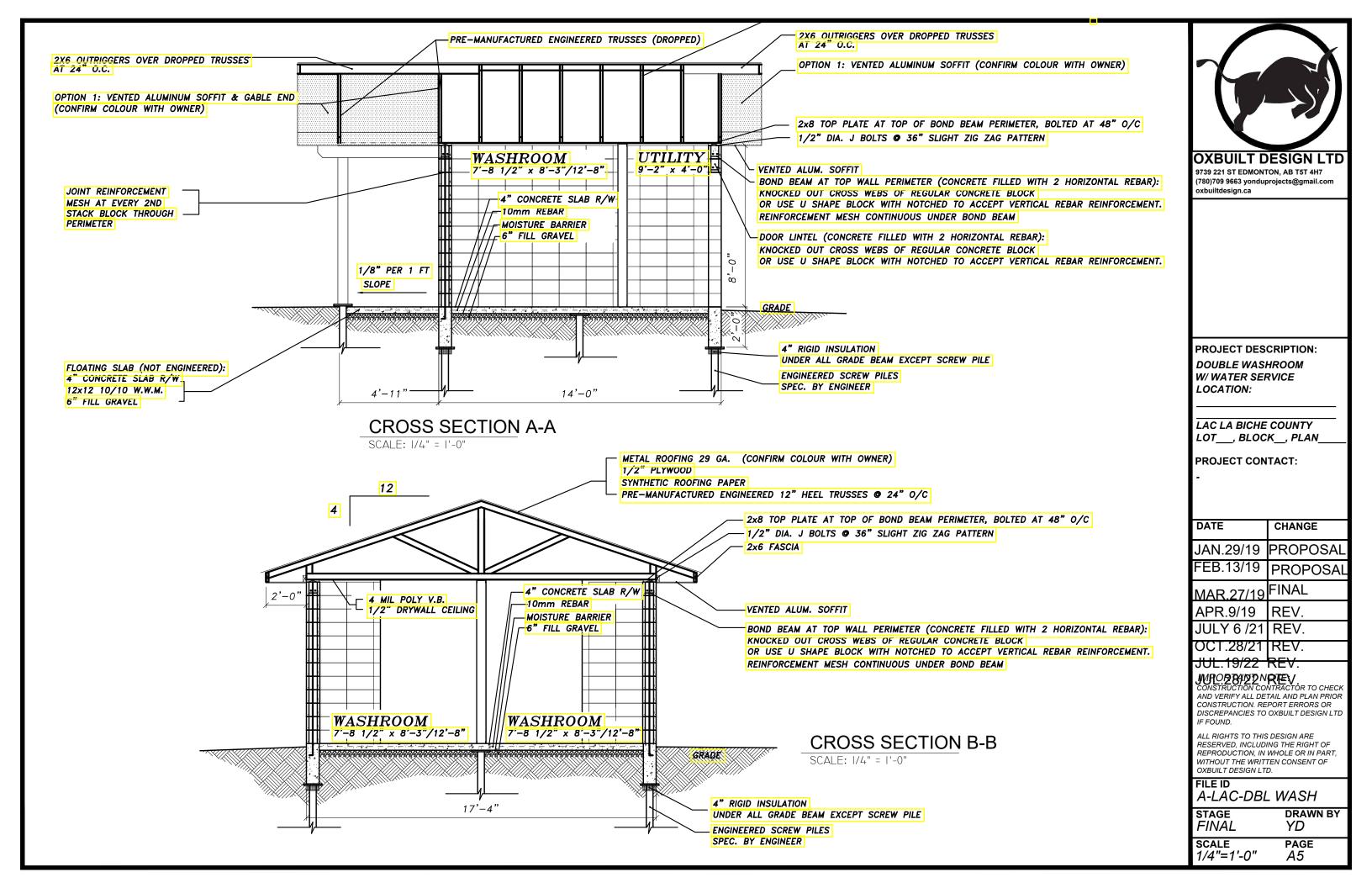
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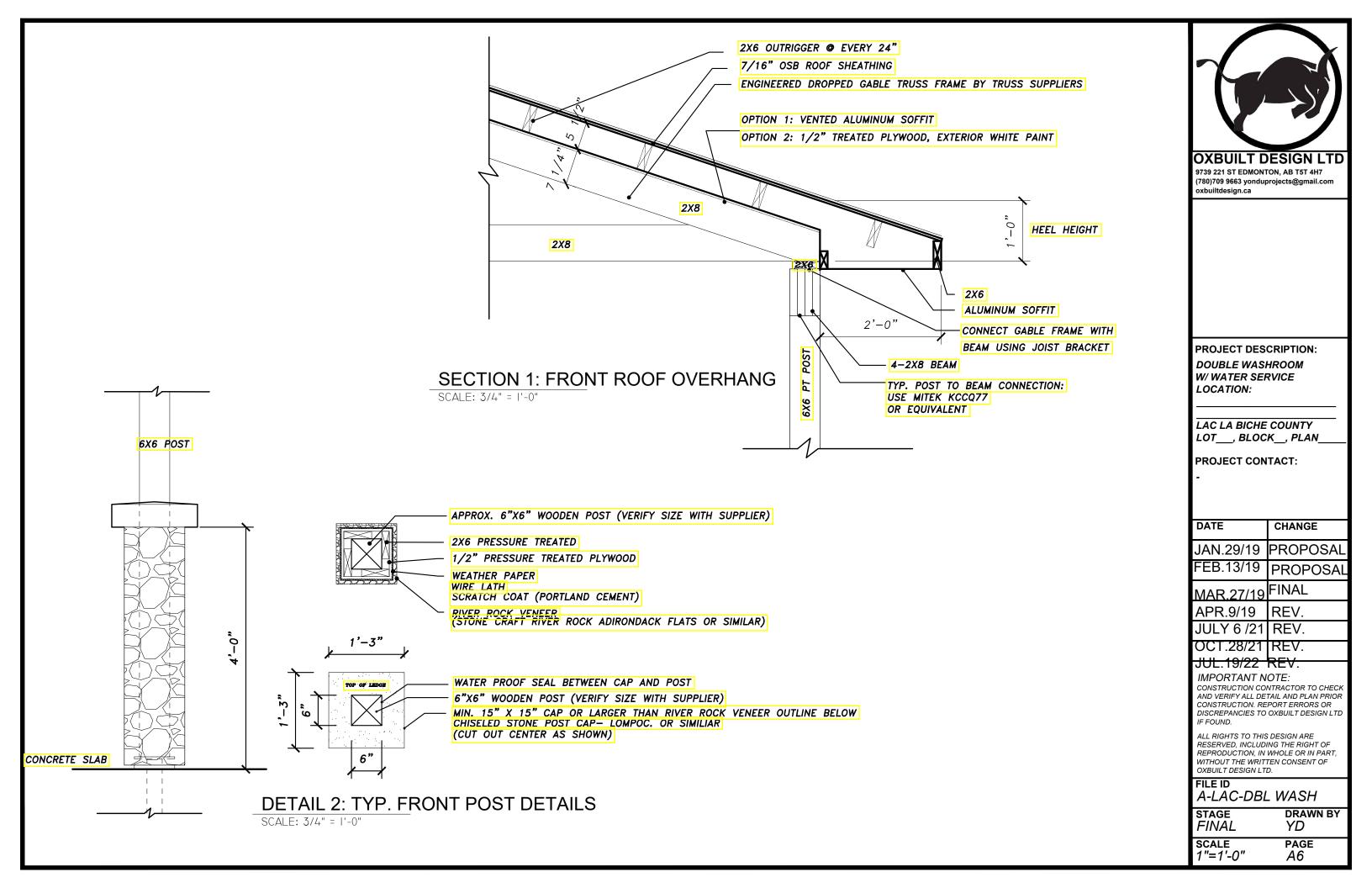
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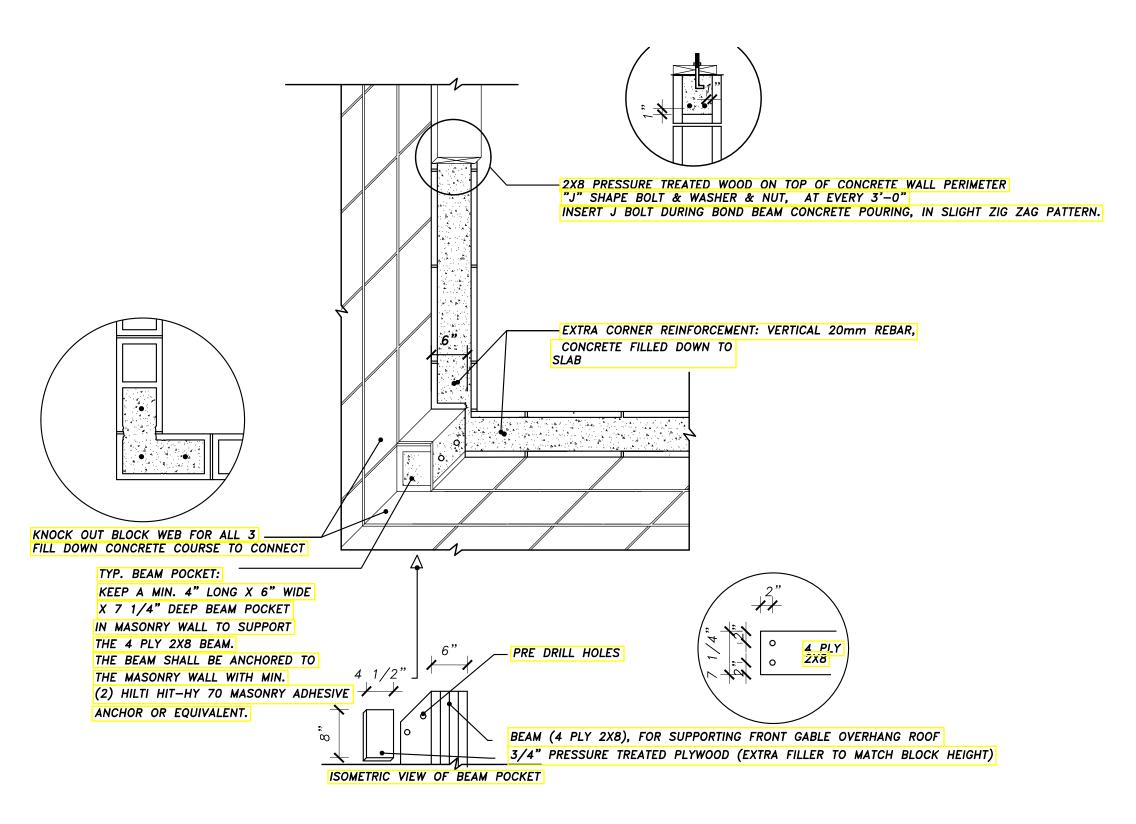
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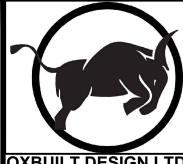






DETAIL 3: TYP. BEAM POCKET

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



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1"=1'-0"

STAGE	DRAWN BY
FINAL	YD
SCALE	PAGE

A7

GENERAL NOTES

- General contractor to verify and mark all underground lines and re-ensure that new foundations do not interfere with any underground utility lines/ existing foundation. Report any conflicts to the engineer of record for review.
- The specifications do not include components that may be necessary
 for the safety of all personnel during the construction process. All
 contractors are responsible for safety in and about the job site during
 construction, including the design, erection and proper use of all
 temporary structures, scaffolding, false work, shoring, etc. required to
 complete the work.
- 3. Structural engineer & OXBUILT DESIGN LTD. shall not be responsible for any acts or omissions committed by the contractor, sub contractor, or any other party involced in the excecution of above work in accordance with the specifications. It remains the contractor's responsibility to ensure that the work is installed in conformance with the supplied comments, amendments and site instructions as may be occasionally issued.

DESIGN LOADS:

The structure has been designed for loads in accordance with the latest Alberta Building Code.

Ground Snow Load 33.4 PSF (1.6 KPA) Rain load 2.09 PSF (0.1 KPA)

FIELD AND SHOP DWG REVIEW

- Engineer shall be notified a minimum of 48 hours in advance for the site review of:
- Concrete Reinforcement Preceding each Pour
- 2. Engineer will review the shop drawings pertaining to work shown on this drawings. This review is for the sole purpose of ascertaining general conformance with the structural design concept. The review is not an approval of the design, details and dimensions inherent in the designs submitted by others. Such review shall not relieve the contractor of his responsibility for errors and omissions in the shop drawings or for meeting all requirements of the contract documents and specification.

GEOTECHNICAL AND FOUNDATION NOTES

- A Geotechnical report was not provided for the proposed work. The grade slab and screw pile was designed based on the assumed soil condition
- 2. Remove topsoil and organic materials. All backfill materials shall be compacted to a minimum of 95% of standard proctor density. Frozen material shall not be used for fill.
- 3. Architectural drawings and specifications for damp proofing or water stop requirements. For ground elevations and drainage slopes, see architectural
- 4. Floor slabs on grade should be directly underlain by a 6 mil poly vapour barrier and supported on a minimum 6" layer of clean granular material of max $\frac{3}{4}$ " size. This material should be compacted to 98% of SPD at optimum moisture content.
- 5. Soil compaction tests shall be performed and report shall be submitted to to engineer for review.

SCREW/HELICAL PILE NOTES

Pile Installation tolerances:

- 1. ± 2 degrees from plumb
- 2. ±75mm (3") in any direction off-centre
- 3. The vertical axis of the pile shall be no less than +/- 2% of the pile length
- 4. The pile cut-off elevation shall be no less within 0.25" of the required elevation

Review and Field Installation

The piling contractor shall record the installed torque and depth of embedment for each pile installed and submit the same report to the engineer of record for review.

Material Specifications

Shaft/pipe material shall conform to ASTM A252 grade 3 or better. Helix/Plates shall conform to CSA G40.20/G40.21-04. Grade 300W.

Welding

Welding shall conform to CSA W59 & CSA W47.1.

REINFORCING NOTES

- Reinforced concrete work shall conform to the requirements of the latest codes and standards.
- 2. Reinforcing steel: billet-steel conforming to the latest codes and standards. all reinforcing shall be grade 400. use grade 400w where welding is noted.
- 3. Bending, cutting and placing of reinforcing steel shall conform to the latest codes and standards.
- 4. Welding shall conform to the latest codes and standards.
- 5. Minimum concrete cover over reinforcement shall be:

		CLEAR COVER
A.	Concrete Placed in Contact with the ground	3"
B.	Columns and Zones (to Vert. Bars)	2"
C.	Beams (To Stirrups)	1"
D.	Slabs, Slab Bands	1.5"
E.	Slabs exposed directly to weather from above	1"
F.	Walls	1.5"

- 6. Deformed wire may not be substituted for reinforcing bars without approval of the structural engineer.
- 7. Footing, grade slab and foundation wall reinforcement shall be inspected by a Engineer's representative prior to pour. Shop drawings are to be submitted for review and approval.
- 8. See below table for the embedment and lap length for the rebars.

Minimum requirements

Unless otherwise noted on drawings

BAR EMBEDMENT AND LAP SPLICE TABLE				
	TENSION		COMPRESSION	
BAR SIZE	EMBEDMENT LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH	
10M	16"	20"	8"	12"
15M	24"	30"	12"	18"
20M	30"	40"	16"	24"
25M	48"	62"	20"	30"

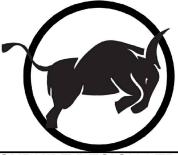
CONCRETE NOTES

- 1. All concrete shall conform to CSA A23.1-04.
- All concrete shall be stone concrete with a unit weight of 2400kg/m3.
- 3. Design mix shall be submitted to the engineer for review. Mix designs shall state the use for which they are intended.
- 4. Lower slump concrete may be used subject to approval.
- No calcium chloride in any form is permitted in any concrete mix.
- 6. Curing and protection of concrete as per CAN/CSA-A23.1 chapter 21 for dry, hot or cold conditions.
- Concrete testing shall conform to CAN/CSA A23.1, CAN/CSA A23.2 and the given specifications. Concrete tests shall be completed (approx. 1 per hour during pouring) by a concrete testing firm.
- 8. Provide saw cut on the grade supported slab before 24 hours of concrete pour. Typical saw cut size would 12' o/c. Use epoxy filler to fill the saw cut.
- 9. Concrete mix shall be as follows:

	CONCRETE STRENGTH AND MIX SPECIFICATIONS						
EXPOSURE CLASS	USE	CEMENT TYPE	MIN. STRENGTH	SLUMP	MAX. AGG. SIZE	W/C RATIO	AIR ENTRAINMEN
S-2	Footings, piers, foundation walls, grade beams and retaining walls	HS	32 MPa @ 28 DAYS	4"	3/4"	0.45	4% - 7%
N	Interior beams, columns, interior walls and structural slabs	GU	32 MPa @ 28 DAYS	3"	3/4"	0.50	N/A
N	Interior slabs on grade	GU	32 MPa @ 28 DAYS	3"	3/4"	0.55	N/A
C-1	Parking slabs, parking ramps and concrete aprons	GU	32 MPa @ 28 DAYS	3"	3/4"	0.40	5% - 8%
C-2	Sidewalks, curbs and sump pits	GU	32 MPa @ 28 DAYS	3"	3/4"	0.45	5% - 8%

WOOD SPECIFICATIONS

- 1. Rough carpentry to conform to the requirements of the latest codes and standards for all wood frame construction.
- 2. All framing lumber is to be #2 SPF or better unless noted otherwise (U.N.O.).
- Sheathing shall be as per the architectural drawings.
 All panels to be placed staggered. Floor and roof panels to be fastened with 2 ½" common nails at 6" o/c at edges and 12" o/c field U.N O.
- 4. Built-up beams (4 Ply max. U.N.O.) shall be nailed with (3) rows of 3.5" common nails at 12" o/c and PL400 glue



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PROJECT DESCRIPTION:

DOUBLE WASHROOM

W/ WATER SERVICE

LOCATION:

LAC LA BICHE COUNTY LOT___, BLOCK__, PLAN_

PROJECT CONTACT:

DATE	CHANGE
JAN.29/19	PROPOSAL
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APR.9/19	REV.

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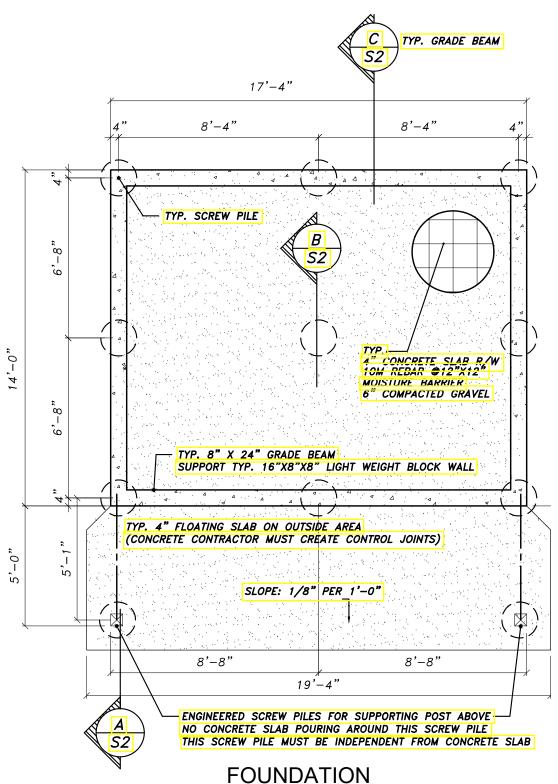
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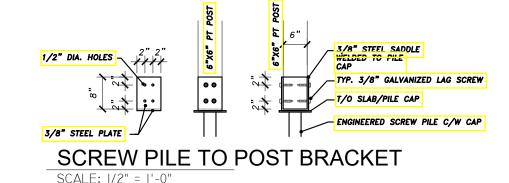
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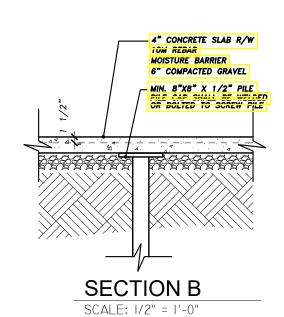
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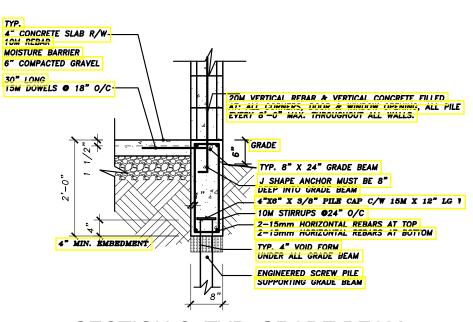
SCREW PILE SPEC: HELIX: 12" DIA. X 3/8" THICK SHAFT: 2 7/8 X 0.217" WALL TORQUE REQUIRED: 2000 FT LBS

-TPY 8"X24" GRADE BEAM R/F 2-15M CONC. HORZ.REBARS TOP & BOTTOM, 4" VOID FORM. 10M STIRRUPS @24"OC



SCREW PILE CAP BRACKET MIN. 8"X8" X 1/2" PILE PRESSURE TREATED POST NO CONCRETE AT THIS AREA 4" CONCRETE SLAB R/W TOM REBAR MOISTURE BARRIER 6" COMPACTED GRAVEL GRADE ENGINEERED SCREW PILE SUPPORTING POST (INDEPENDENT FROM SLAB) **SECTION A**





SECTION C: TYP. GRADE BEAM SCALE: 1/2" = 1'-0"

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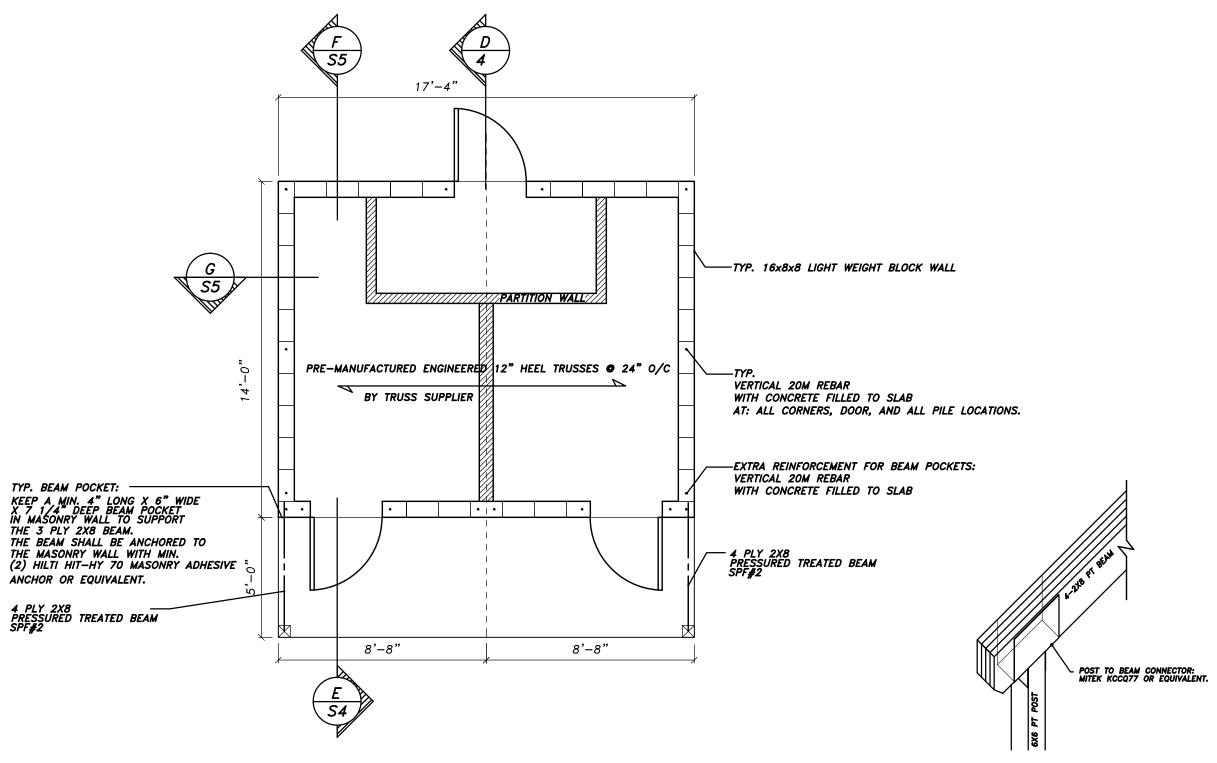
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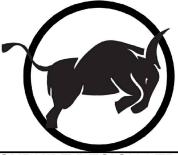
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LIGHT WEIGHT BLOCK WALL LAYOUT SCALE: 1/4" = 1'-0"

TYP. POST TO BEAM CONNECTION

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



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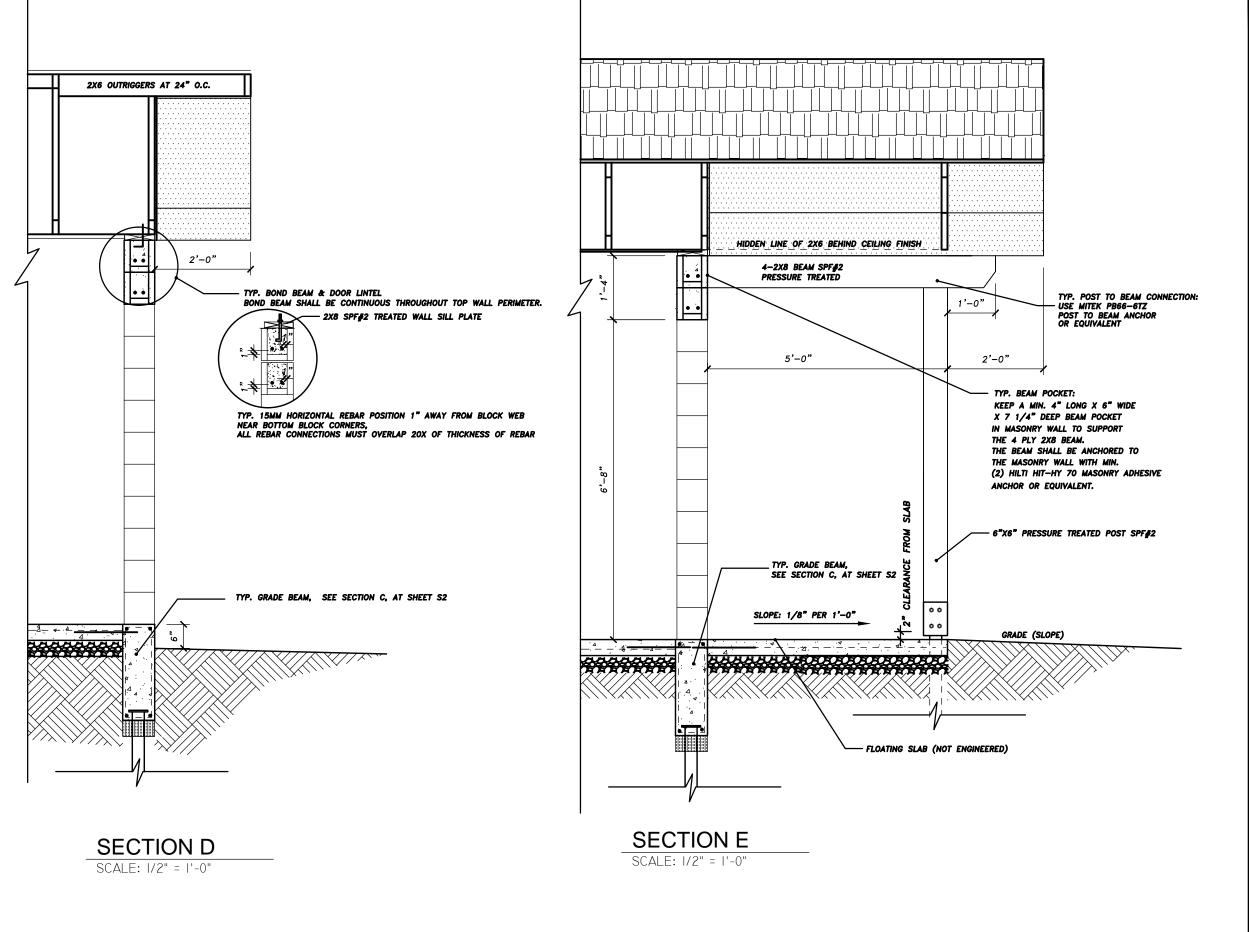
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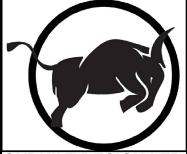
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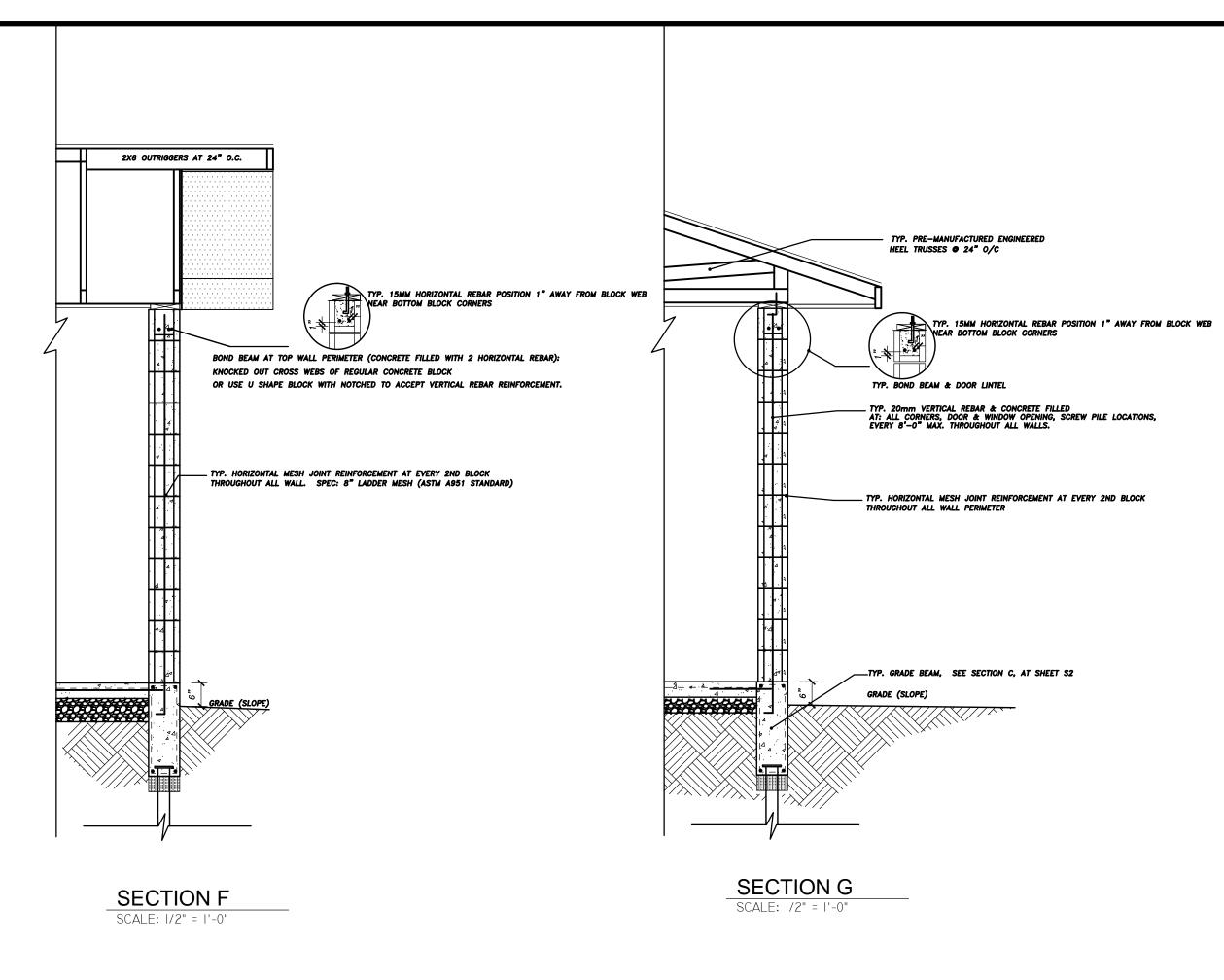
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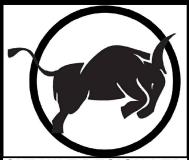
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S4





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