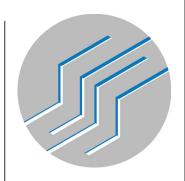
SOLAR DECATHLON_CRETE HOUSE



WASHINGTON UNIVERSITY IN ST. LOUIS
CONSTRUCTION DOCUMENTATION
MAY 19, 2017



TEAM NAME:

TEAM WASH

ADDRESS:

S: GIVENS HALL, RM. 105 1 BROOKINGS DRIVE ST. LOUIS, MO 63130

TACT: RYAN ABENDROTE

CONSULTANTS

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NGINEER OF RECORD:

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MECHANICAL CONSULTANT:

TIM MICHE ENERGY RESOURCES GRO 6744 OLIVE BL' ST. LOUIS, MO 63 (P) 314 644 01



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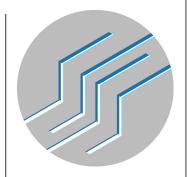
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Sheet			
Number	Sheet Name		

GENERAL NOTES

- ALL CONSTRUCTION IS IN ACCORDANCE WITH THE 2015 INTERNATIONAL RESIDENTIAL CODE, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL WITH 2015 IBC AMEMOMENTS (IRC), AND THE 2014 NATIONAL ELECTRIC CODE (NEC), PUBLISHED BY THE NATIONAL FIRE PROTECTION AGENCY (NPPA).

 ADDITIONALLY FOR BUILDING IN ST LOUIS COUNTY, WE ARE FOLLOWING ST LOUIS COUNTY STATE OF THE 2009 INFO, PLUMBING CODE (CH. 1103 2009 IMC), PLUMBING CODE (CH. 1103 2009 IMC), PLUMBING CODE (CH. 1103 2009 IMC), AND RESIDENTIAL CODE (CH. 1116 2009 INTERNATIONAL PLUCH ON STATE OF THE 2009 INTERNATIONAL RESIDENTIAL CODE, THE 2009 INTERNATIONAL FIRE CODE, THE 2009 INTERNATIONAL FIRE CODE, THE 2009 INTERNATIONAL FIRE CODE, THE 2009 INTERNATIONAL HEAD ON SERVING CODE, THE 2009 INTERNATIONAL HEAD ON SERVING CODE, THE 2009 INTERNATIONAL HEAD ON SERVING CODE, THE 2009 INTERNATIONAL HECHANICAL CODE, THE 2011 NATIONAL ELECTRICAL CODE, AND THE CITY OF ST LOUIS ZONING ORDINANCES, ORDINANCE 59979.



TEAM NAME: ADDRESS:

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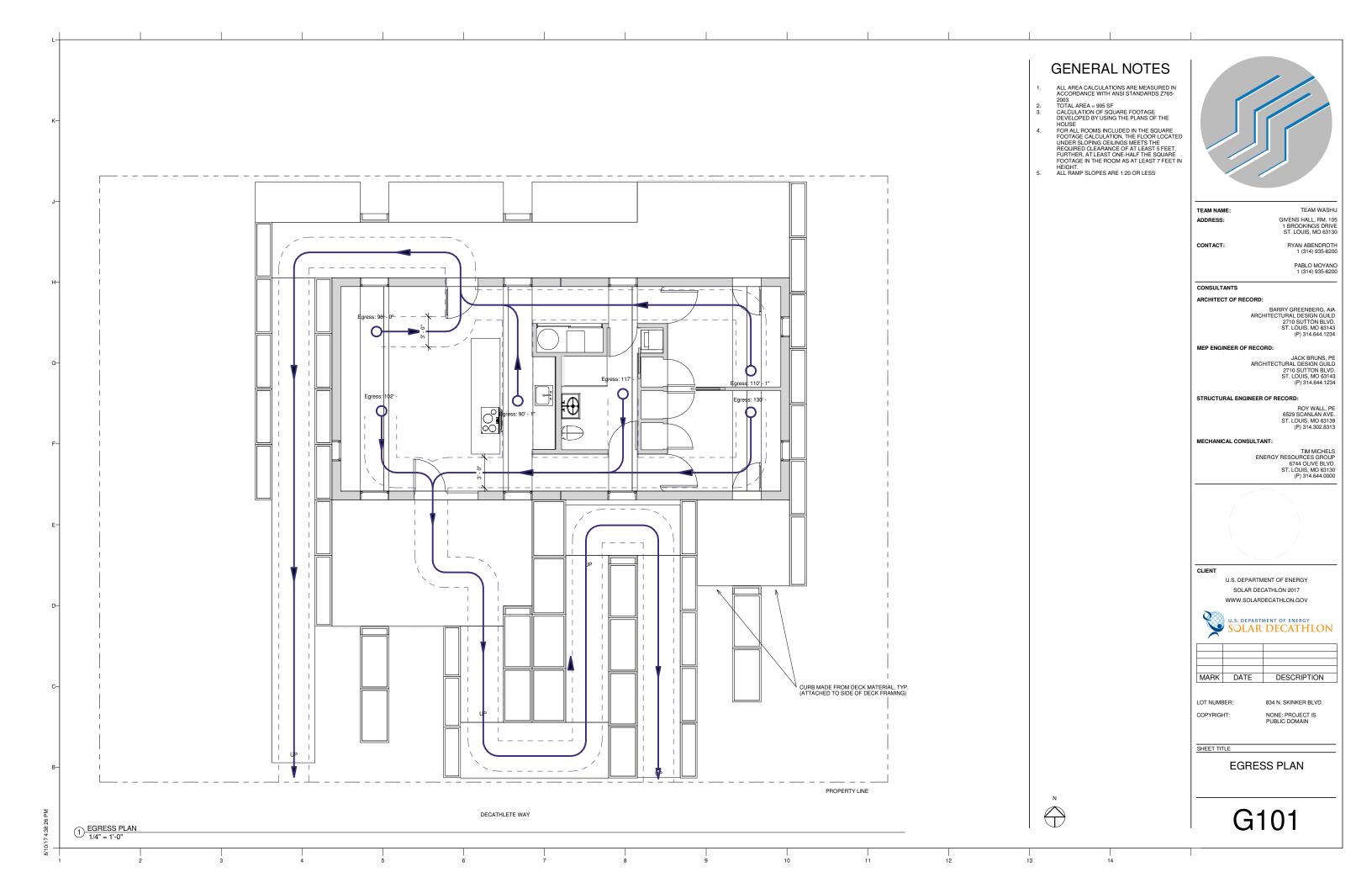
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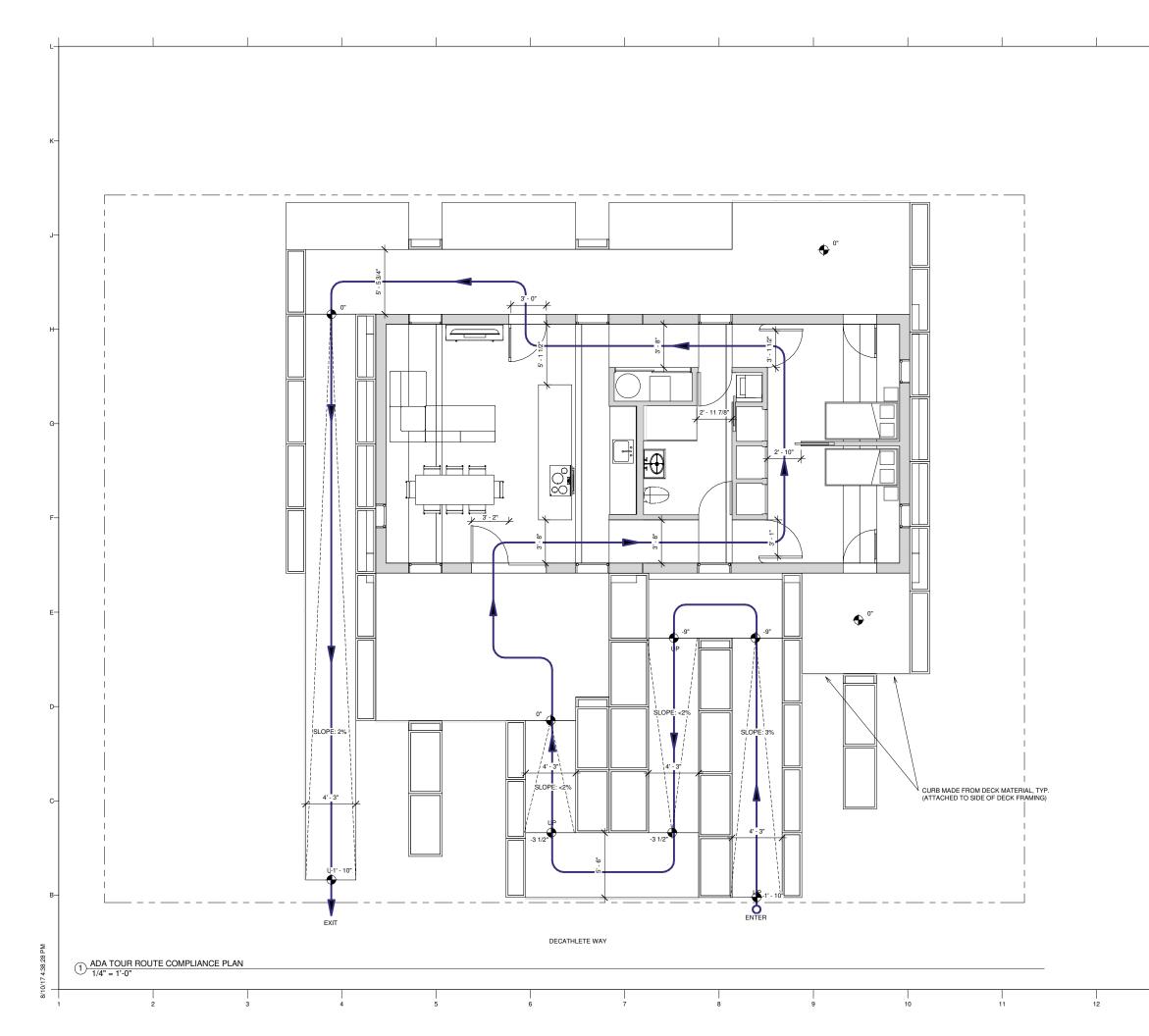
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SHEET TITLE

SHEET INDEX, GENERAL SYMBOLS & NOTES

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	G103 G601	SOLAR ENVELOPE COMPLIANCE ELEVATIONS
	G602	SOLAR ENVELOPE COMPLIANCE ELEVATIONS
	G801 G901	CONSTRUCTION SEQUENCE GENERAL PROJECT RENDERINGS
	4 - ARCHITECTURAL	
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	A112	FIRST FLOOR PLAN
	A113 A114	FIRST FLOOR DIMENSIONED PLAN FIRST FLOOR FURNITURE PLAN
	A121	DECK PLAN
	A122 A123	DECK FOOTING PLAN DECK MODULE LAYOUT PLAN
	A124	DECK FRAMING PLAN
	A125 A126	DECK MODULE FRAMING PLANS DECK MODULE FRAMING PLANS
н-	A131	ROOF PLAN
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	A201	EXTERIOR ELEVATIONS
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	A561 A571	DECK DETAILS CONCRETE GUTTER DETAILS
F-	A581	TEMPORARY PRECAST DETAILS
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E-	A731	STRUCTURAL PRECAST CONCRETE ROOF PANELS
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	10 - LANDSCAPING L101	LANDSCAPE AND PLANTING SITE PLAN
	L801	LANDSCAPE AND PLANTING SITE PLAN LANDSCAPE AND PLANTING DETAILS
23 PM	Grand total: 88	
8	1	



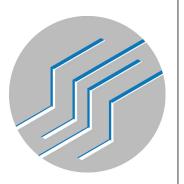


GENERAL NOTES

- ALL AREA CALCULATIONS ARE MEASURED IN ACCORDANCE WITH ANSI STANDARDS Z765-

- ACCORDANCE WITH ANSI STANDARDS 2765-2003 TOTAL AREA = 988 SF CALCULATION OF SQUARE FOOTAGE DEVELOPED BY USING THE PLANS OF THE HOUSE FOR ALL ROOMS INCLUDED IN THE SQUARE FOOTAGE CALCULATION, THE FLOOR LOCATED UNDER SLOPING CELLINGS MEETS THE REQUIRED CLEARANCE OF AT LEAST 5 FEET, FURTHER, AT LEAST ONE-HALF THE SQUARE FOOTAGE IN THE ROOM AS AT LEAST 7 FEET IN HEIGHT. HEIGHT. OCCUPANT LOAD: 49 MAX.

- HEIGHI:
 OCCUPANT LOAD: 49 MAX.
 NUMBER OF EXITS REQUIRED: 1
 1 EXIT IS REQUIRED PER TABLE 1015.1 OF THE
 2012 INTERNATIONAL BUILDING CODE.
 NUMBER OF EXITS ACTUAL: 2
 EACH BEDROOM AND LIVING SPACE EACH
 HAVE AT LEAST 1 DOOR AND AT LEAST 1
 WINDOW THAT MEET EGRESS REQUIREMENTS.
 MAXIMUM TRAVEL DISTANCE ALLOWED: 200'
 PER NFPA 101.
 ACTUAL TRAVEL DISTANCE: 130'
 MINIMUM EGRESS WIDTH ALLOWED: 9.8"
 MINIMUM EGRESS WIDTH ACTUAL: 32'
 SPRINKLER SYSTEM COMPLIANT WITH 2015 IRC
 R313/NFPA 13D.
 THE DESIGNATED TOUR ROUTE IS COMPLIANT
 WITH THE 2010 ADA STANDARDS FOR
 ACCESSIBLE DESIGN. THE BATHROOM AREA,
 WHICH IS NOT PART OF THE DESIGNATED
 TOUR ROUTE, IS NOT COMPLIANT WITH ALL
 ADA REQUIREMENTS. 15. ADA REQUIREMENTS.



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ADA TOUR ROUTE **COMPLIANCE PLAN**





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SQUARE FOOTAGE COMPLIANCE

GENERAL NOTES ADDRESS: - SOLAR ENVELOPE - COMPETITION ALLOWABLE LIMIT OF CONSTRUCTION CONTACT: T.O. SOLAR ARRAY 12' - 0" T.O. PARAPET 11' - 1" FINISH FLOOR SOLAR COMPLIANCE SOUTH 2 ELEVATIONS 1/4" = 1'-0" - SOLAR ENVELOPE - COMPETITION ALLOWABLE LIMIT OF CONSTRUCTION CLIENT T.O. SOLAR ARRAY 12' - 0" _T.<u>O. PARAPET</u> LOT NUMBER: COPYRIGHT: SHEET TITLE FINISH FLOOR 0" SOLAR COMPLIANCE NORTH ELEVATION 1/4" = 1'-0"



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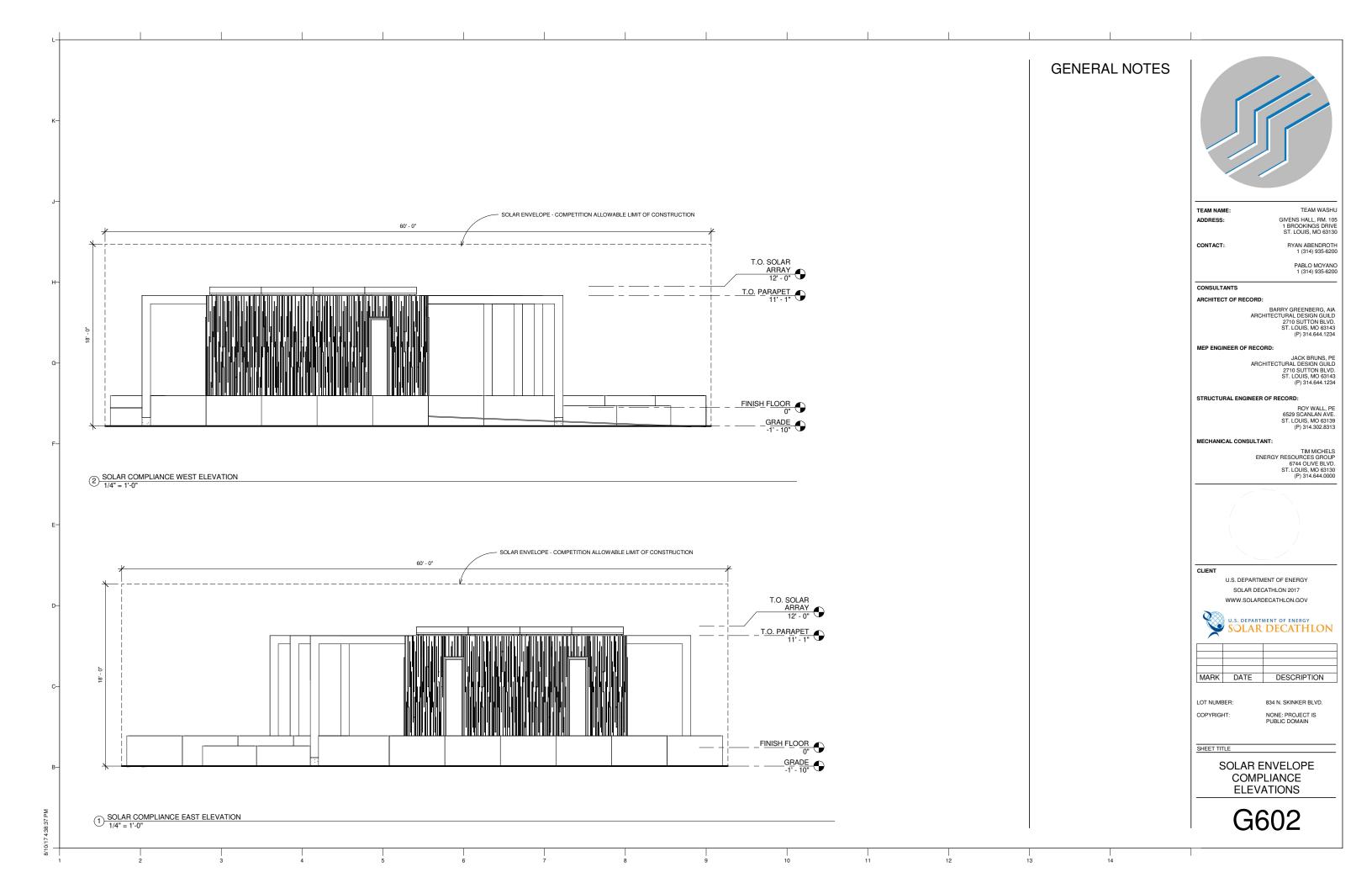
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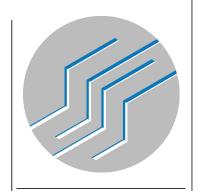
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SOLAR ENVELOPE COMPLIANCE **ELEVATIONS**



3. CORE UNIT PRECAST CONCRETE FOOTINGS PRECAST FLOOR PANELS PRECAST WALL PANELS PRECAST ROOF PANELS **7.** DECKING, RAMP **8.** PLANTERS **9.** PV PANELS, FURNITURE, ETC **6.** PRECAST CONCRETE GUTTERS

GENERAL NOTES



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CONSTRUCTION SEQUENCE

ALL RENDERINGS ARE FOR REPRESENTATION PURPOSES ONLY. ALL FINISHES, FURNISHINGS, AND DESIGN ELEMENTS ARE SUBJECT TO CHANGE DURING THE CONSTRUCTION PROCESS.



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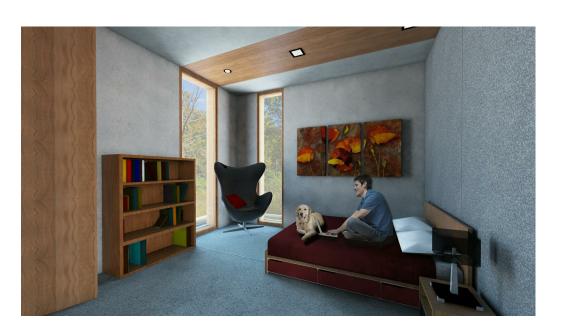
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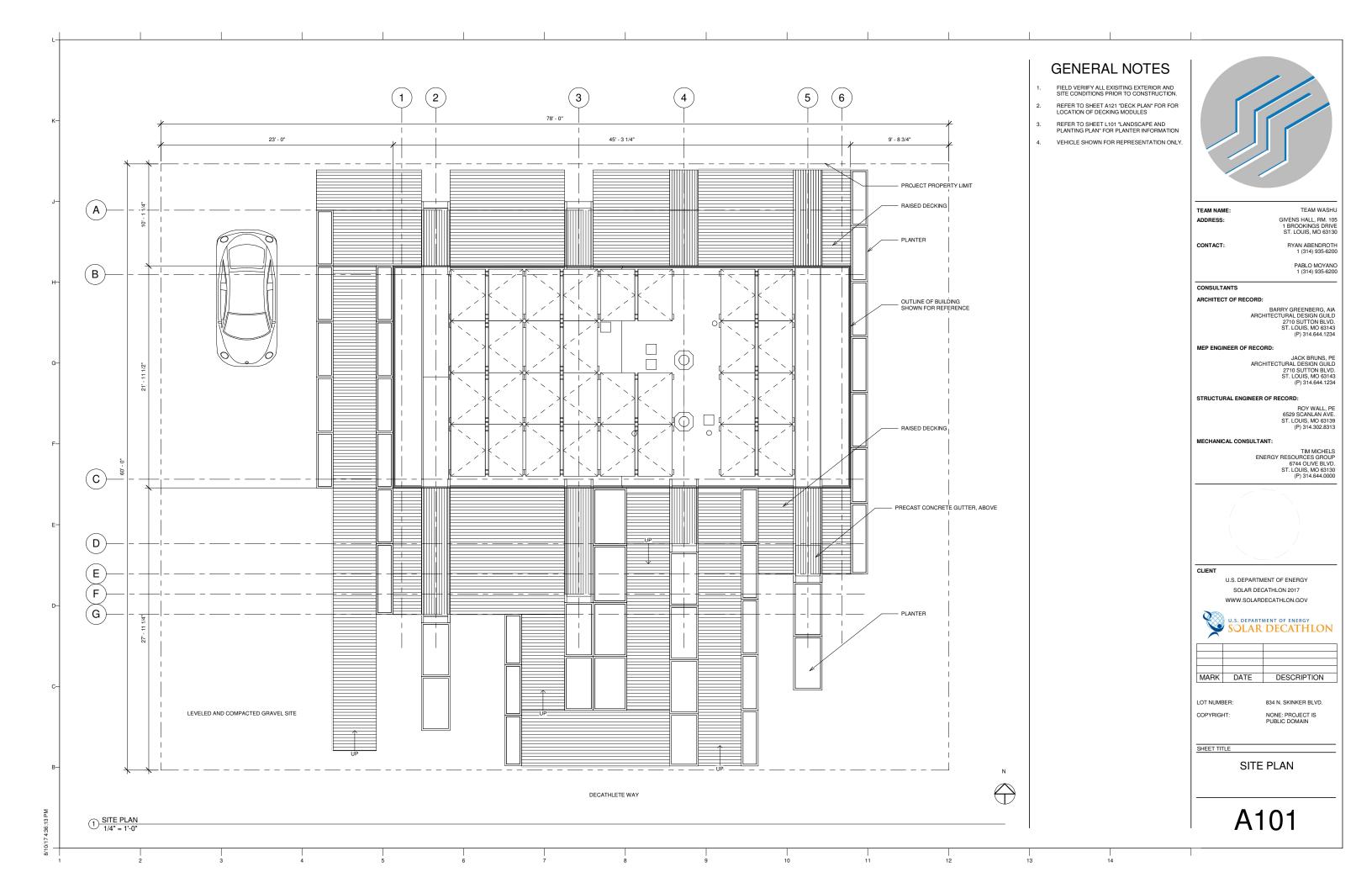
GENERAL PROJECT RENDERINGS

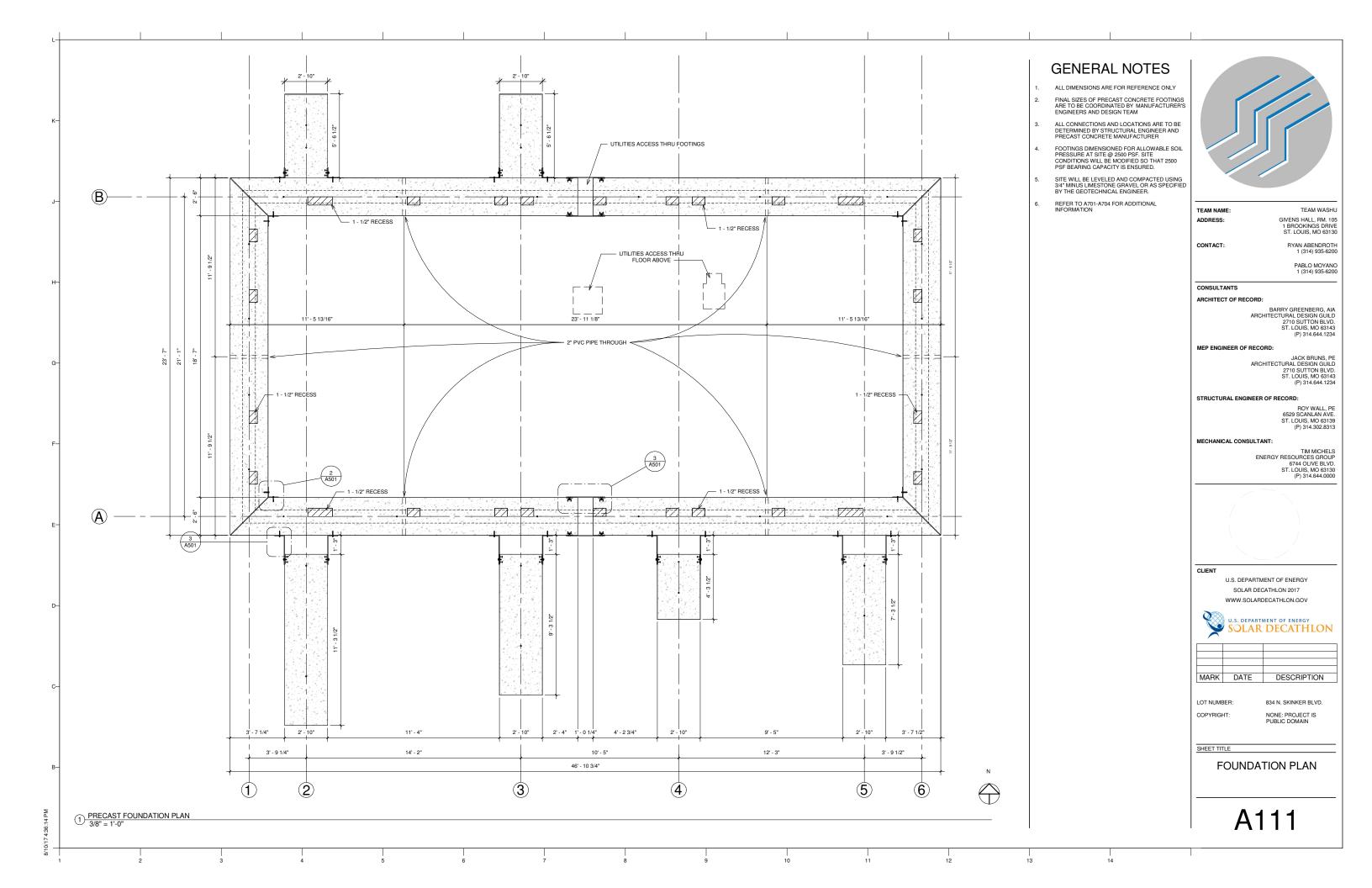


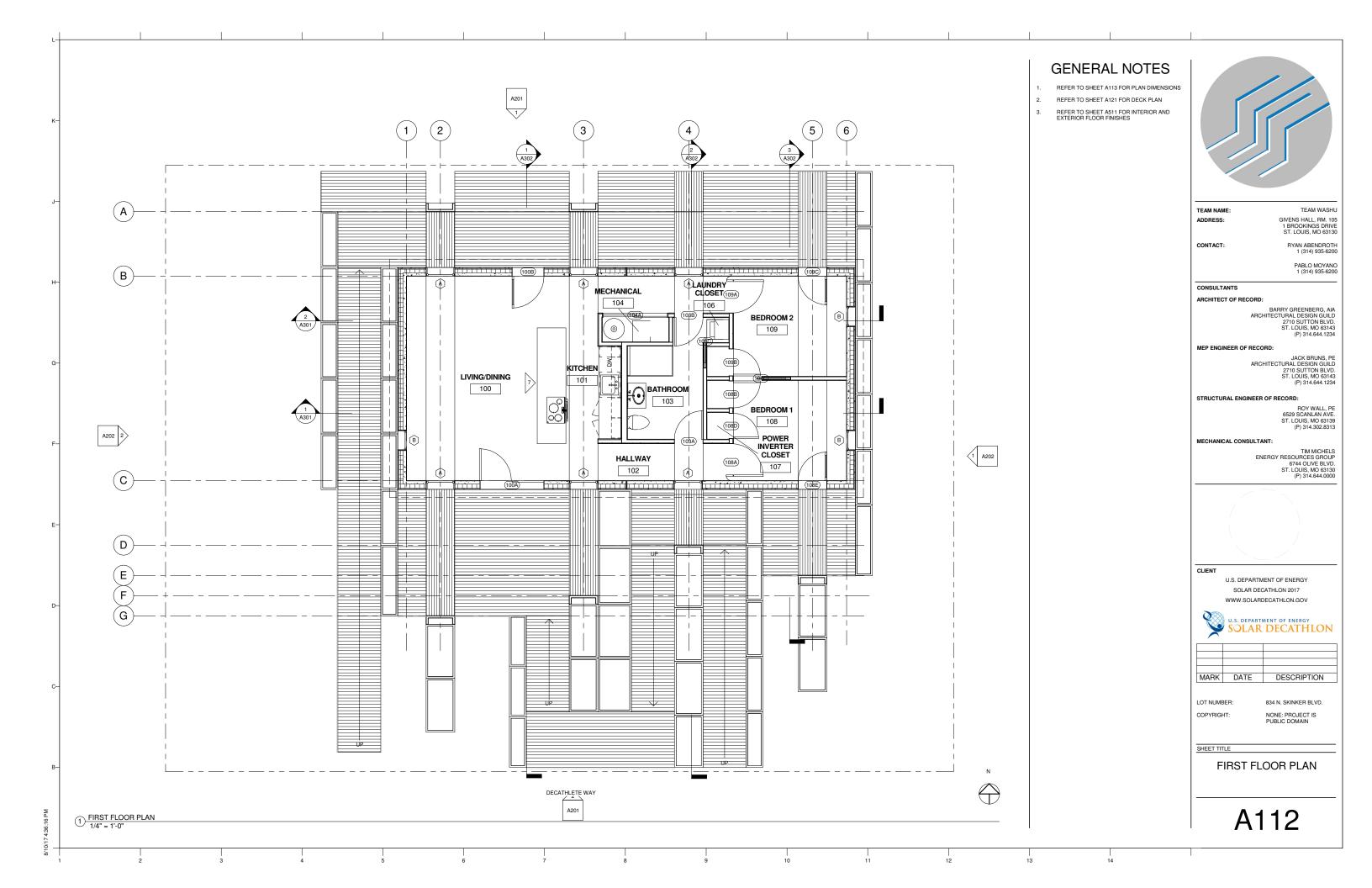


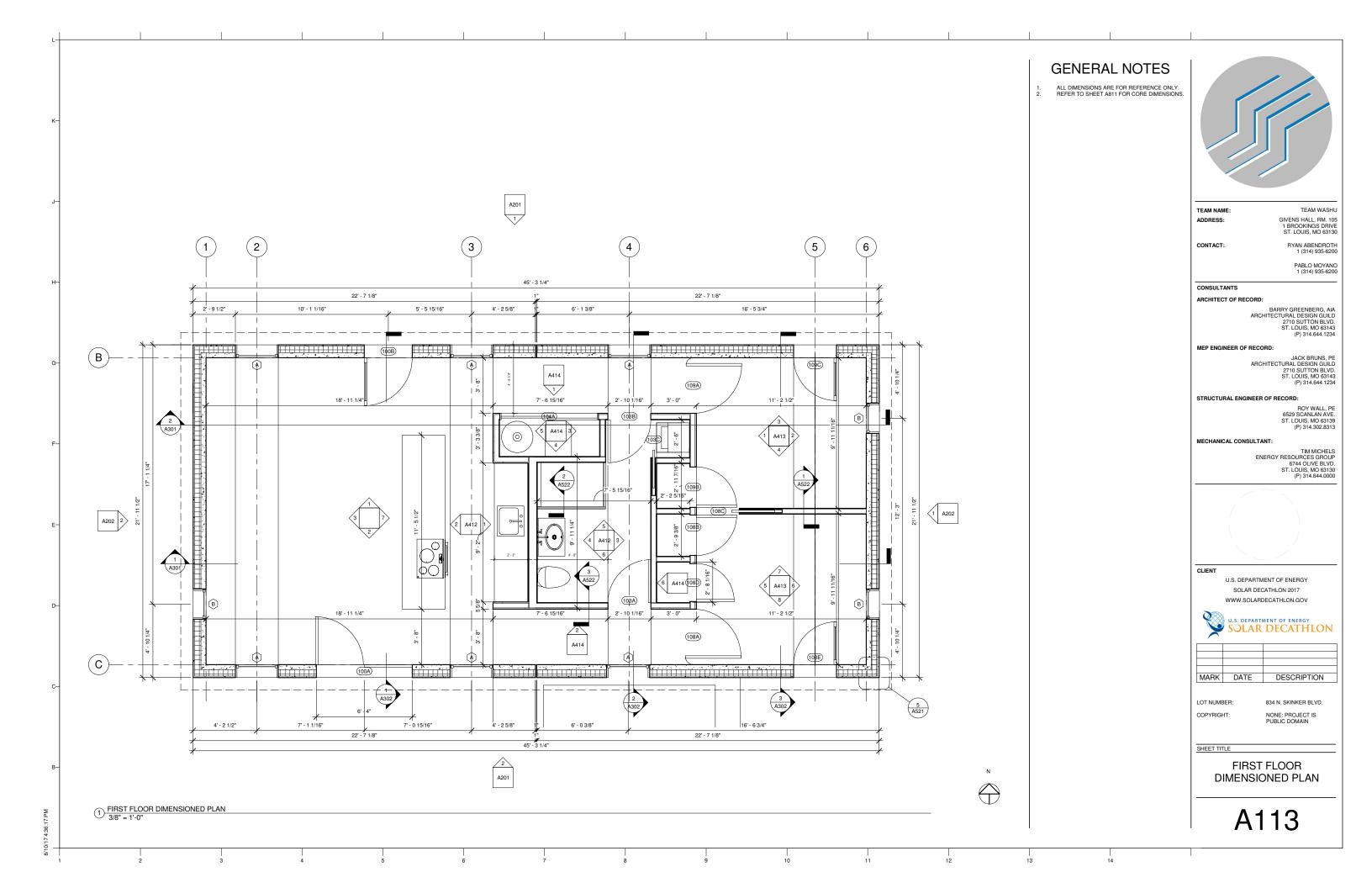


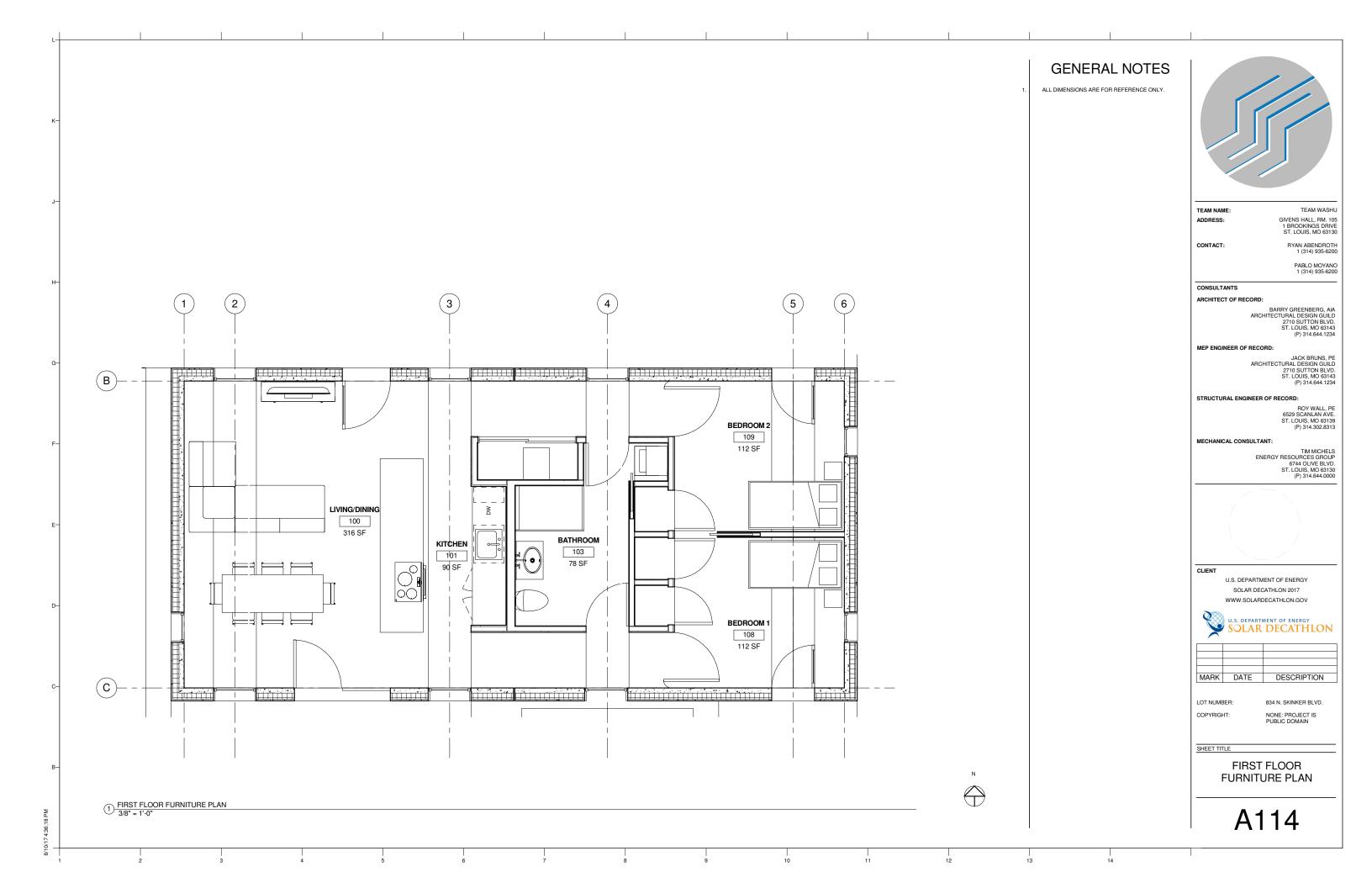


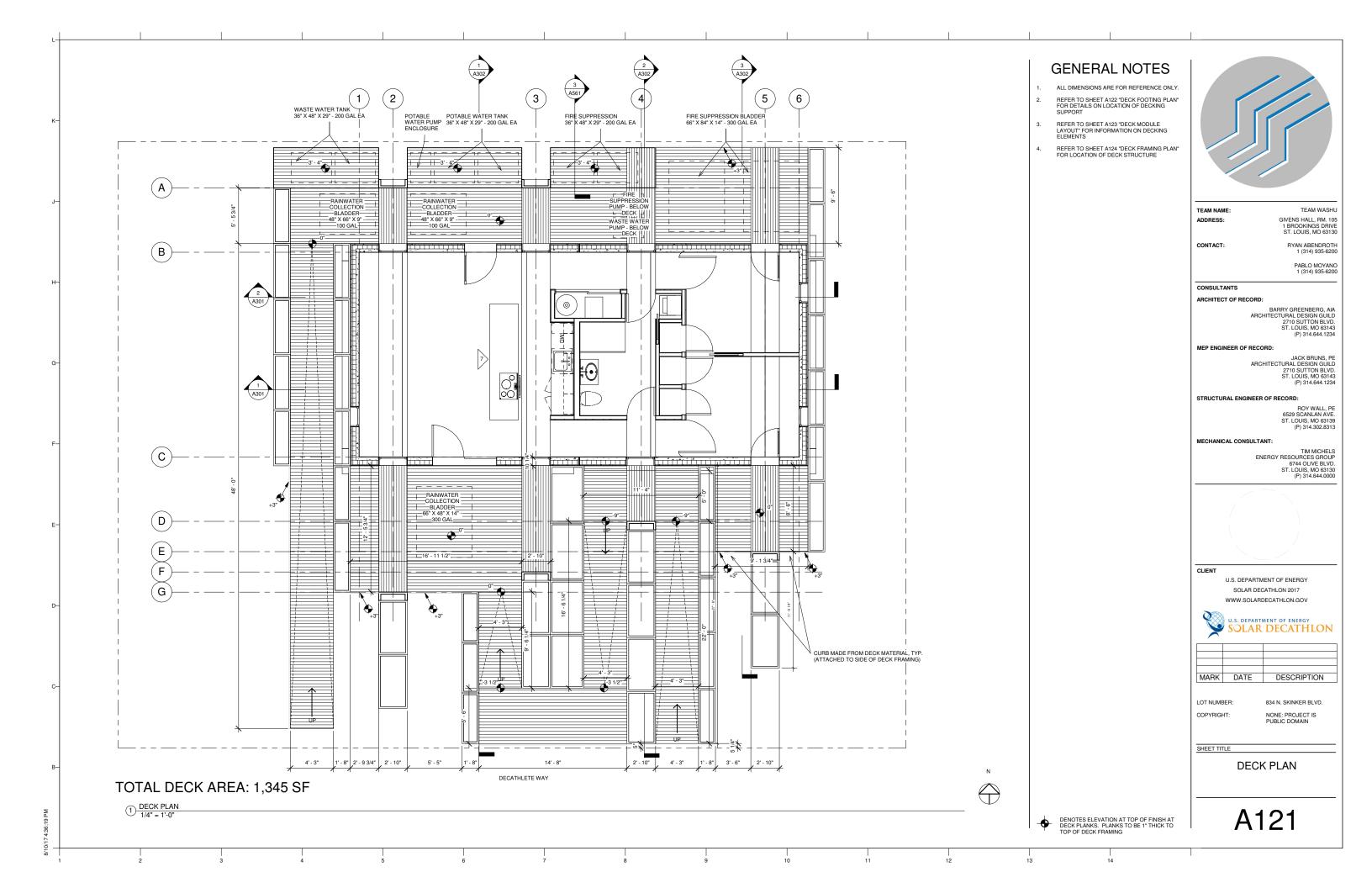


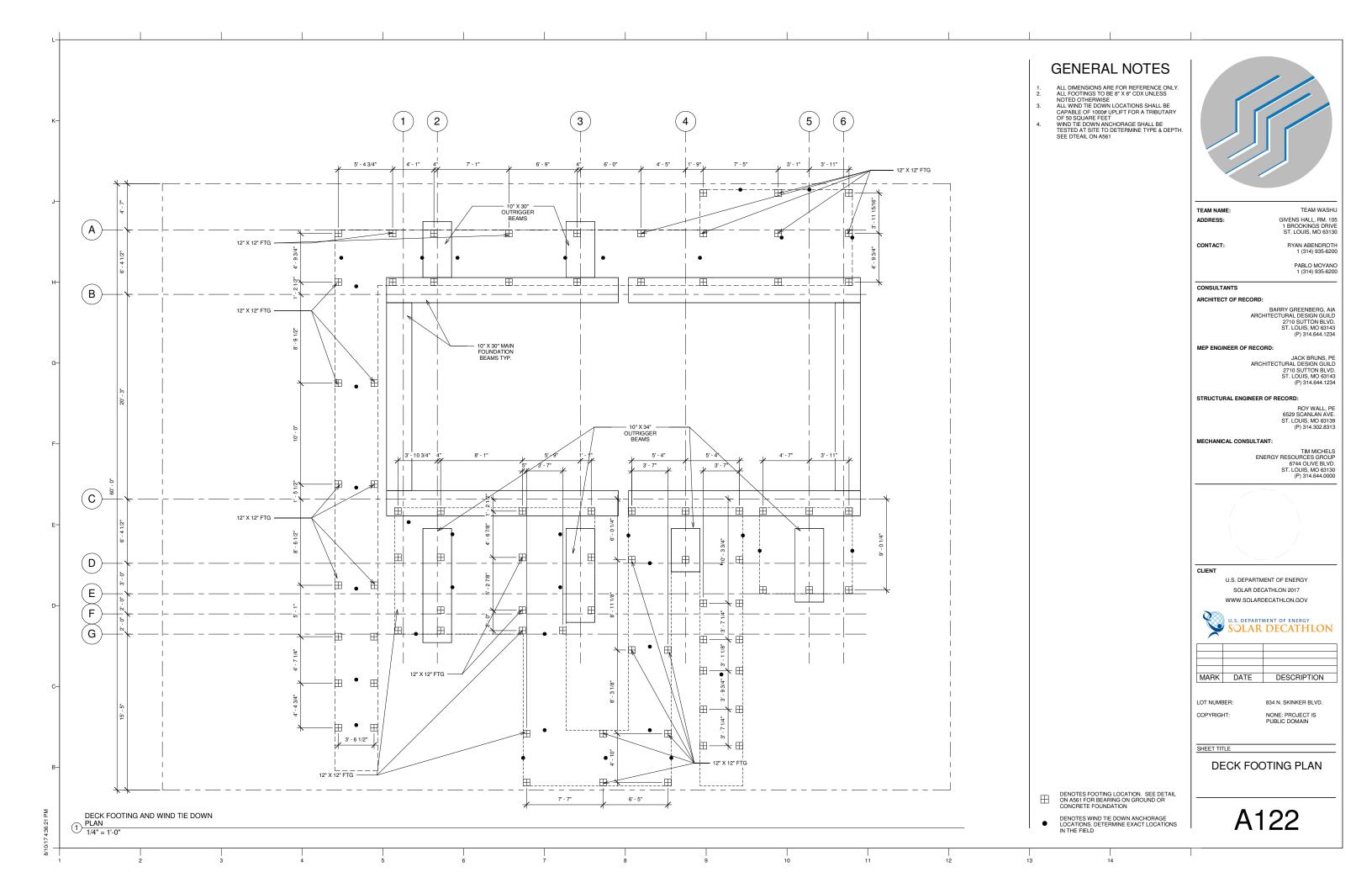


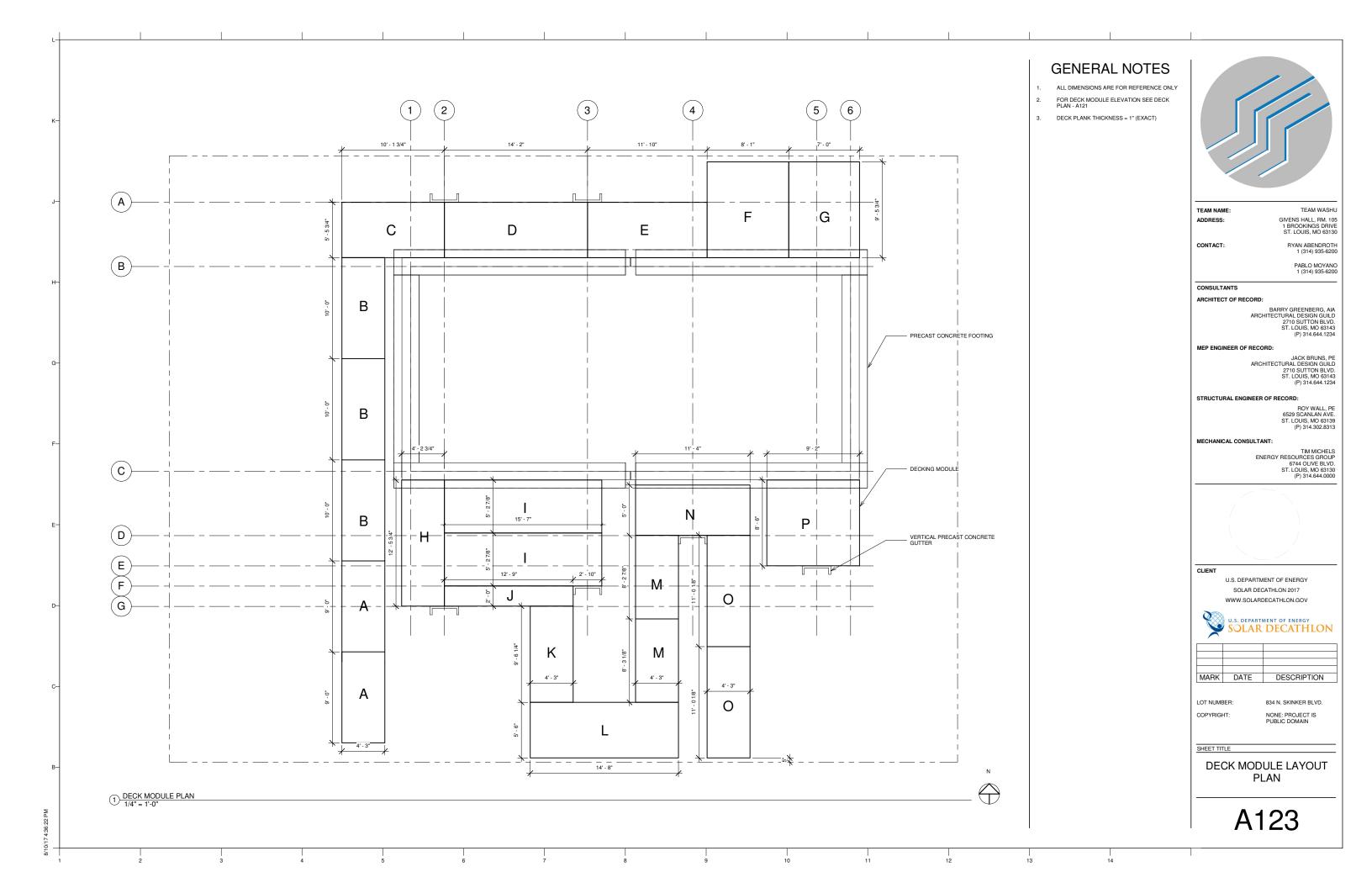


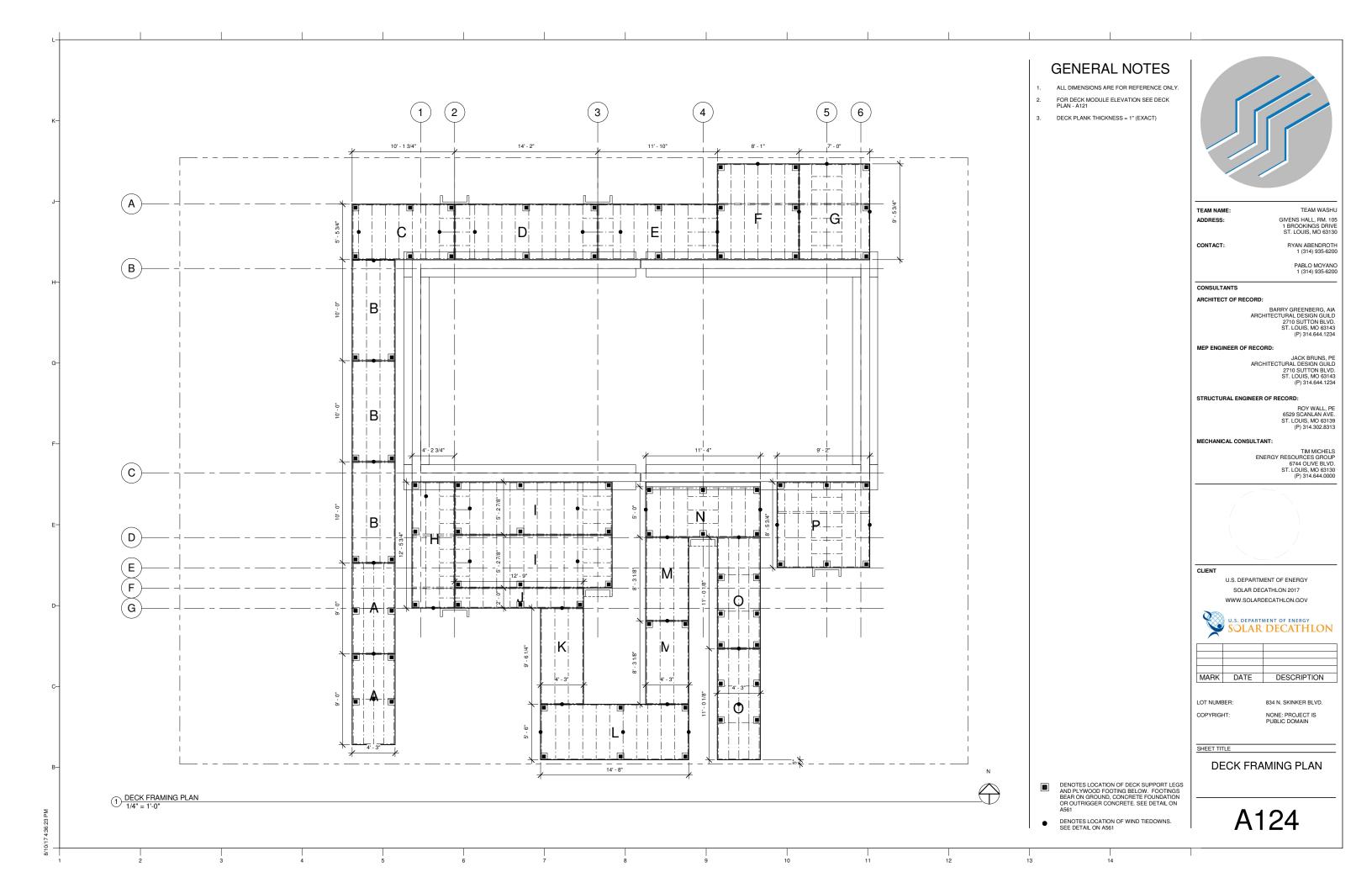


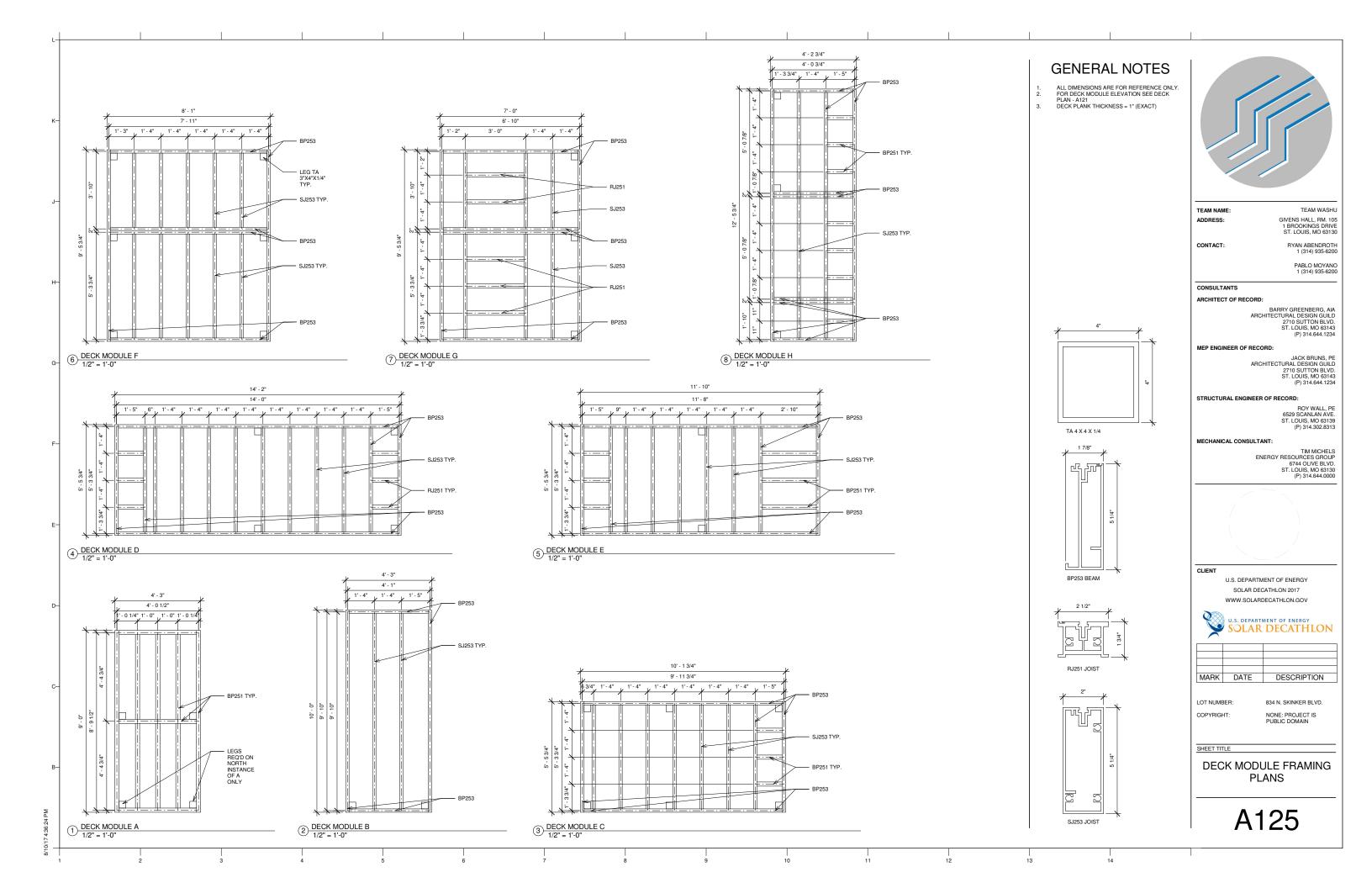


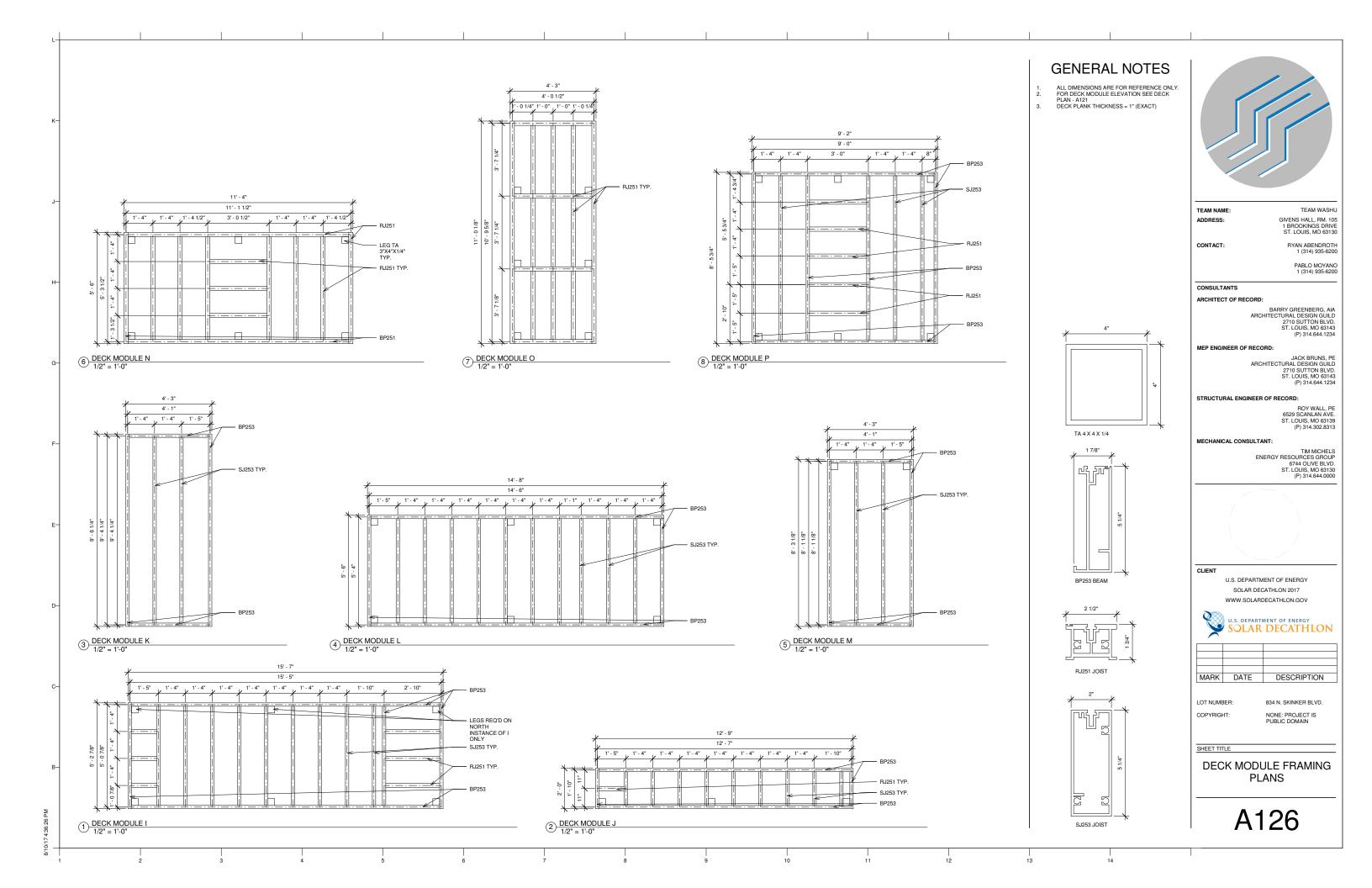


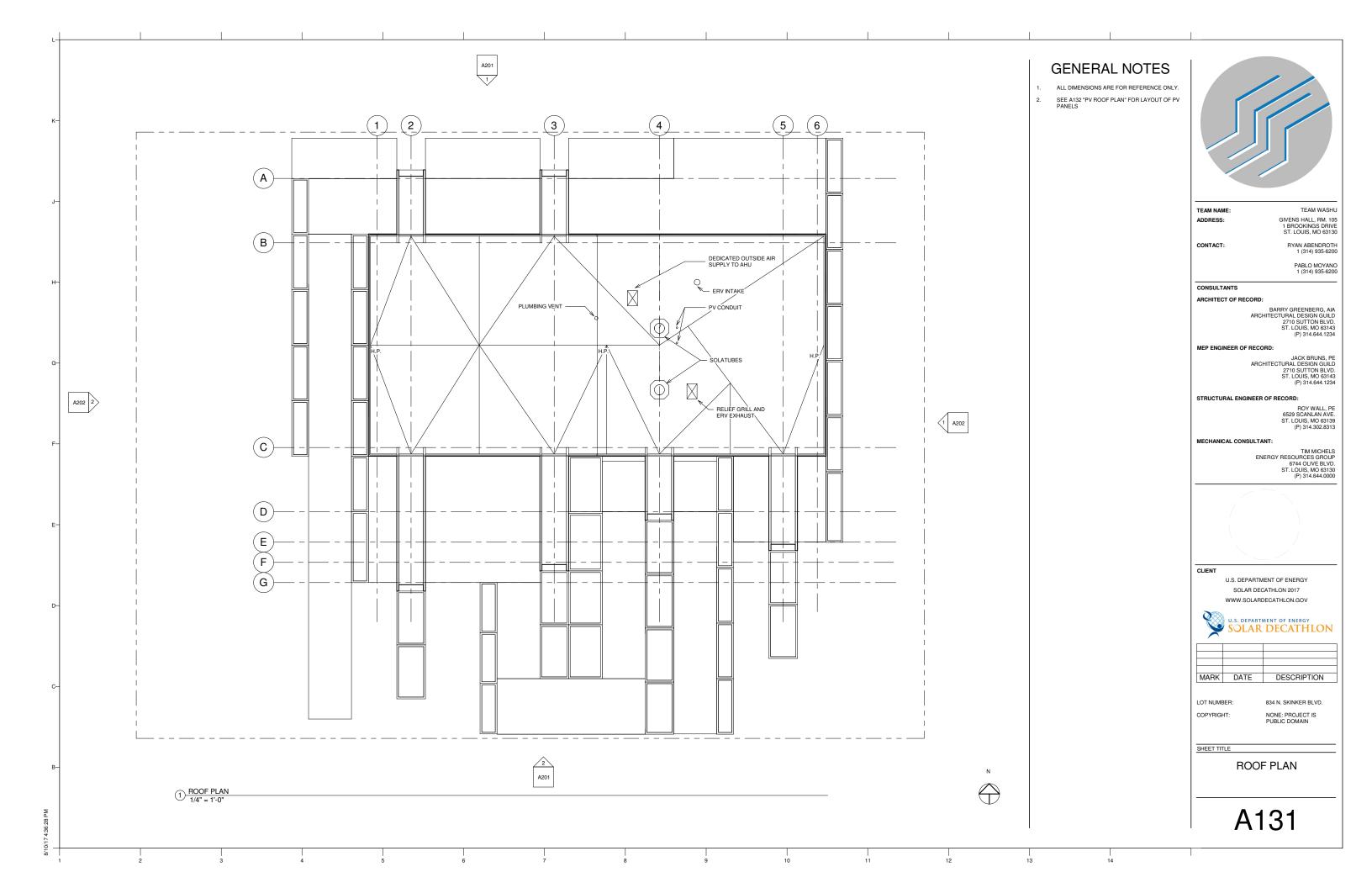


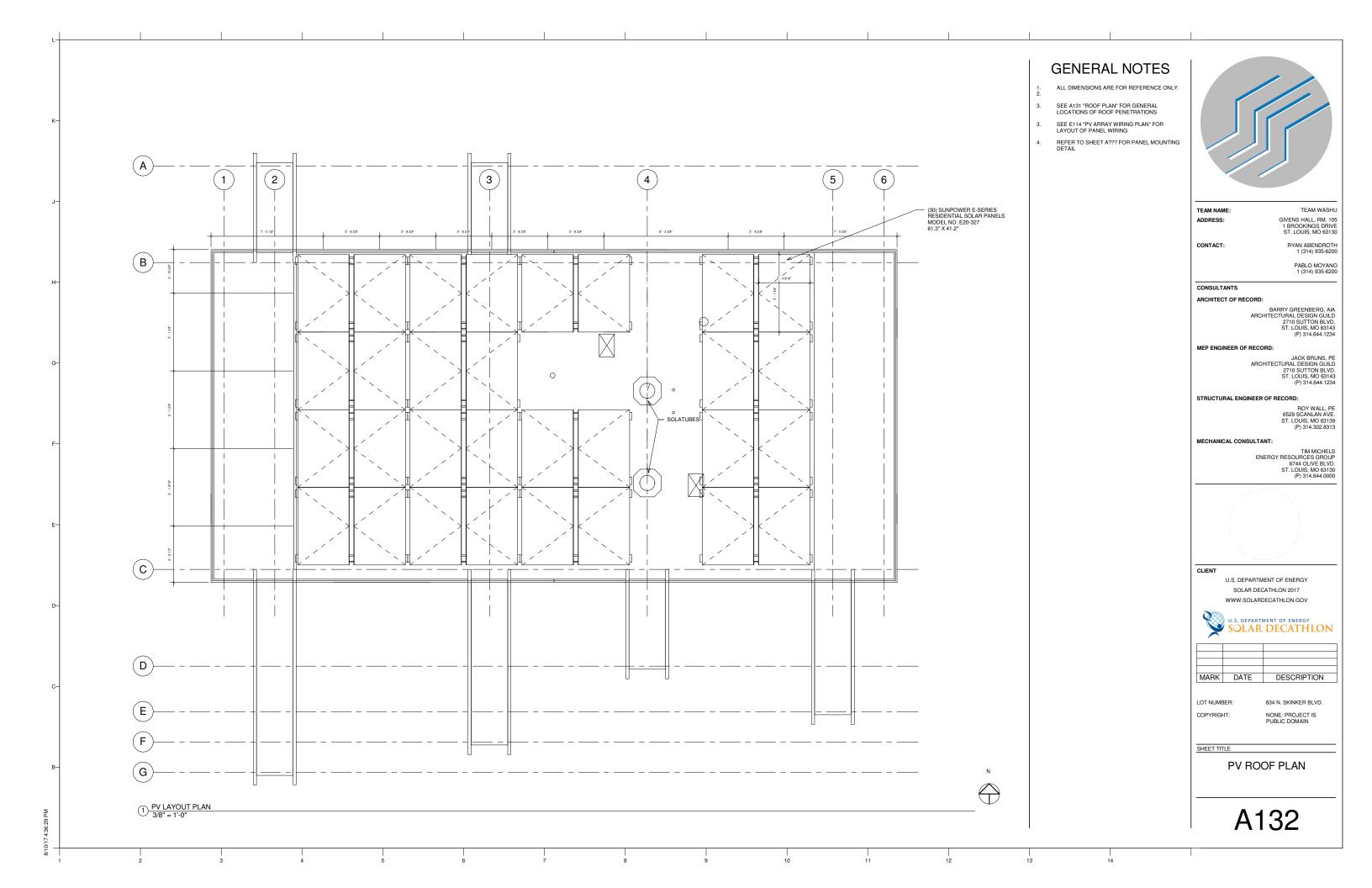


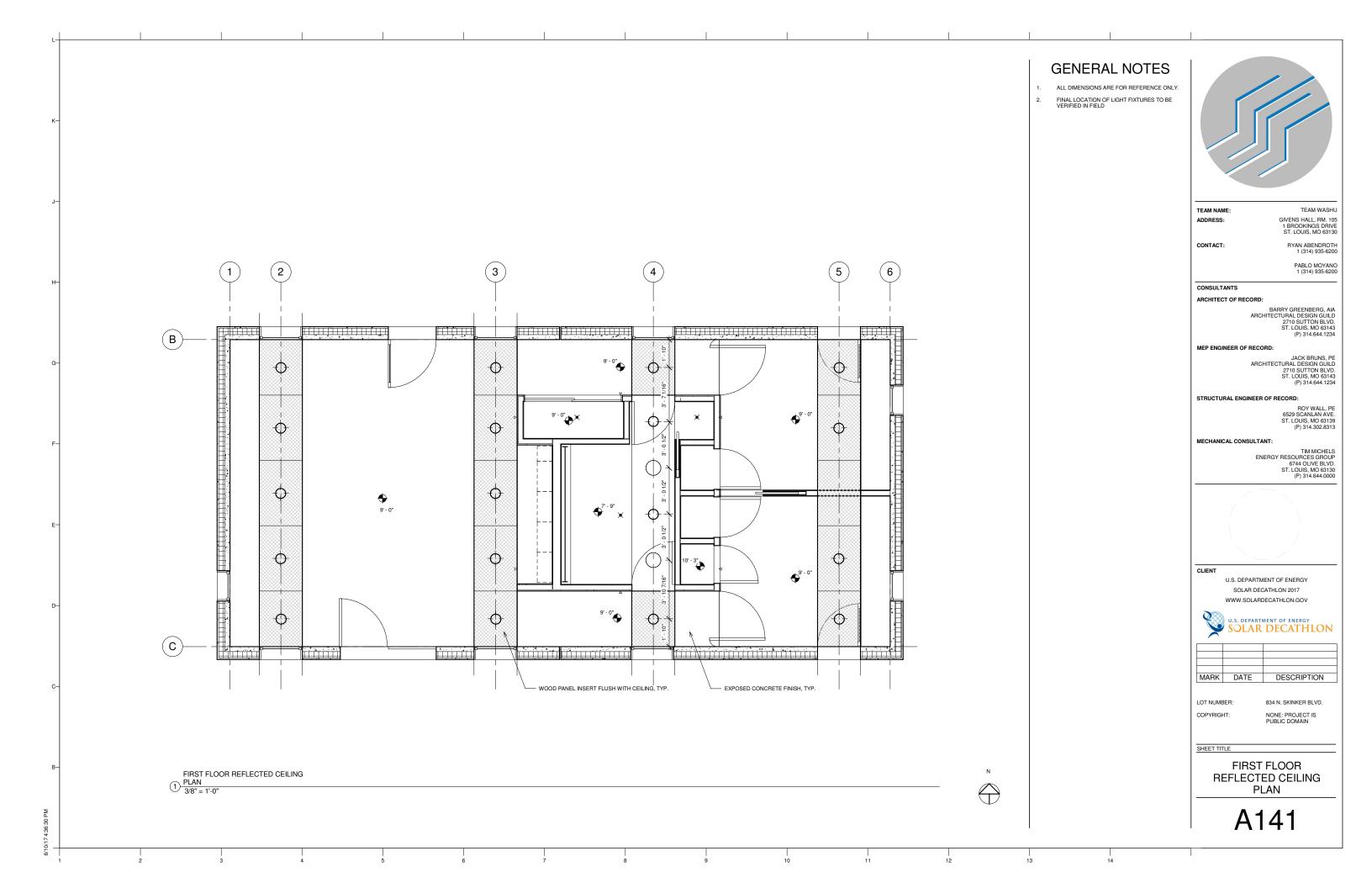


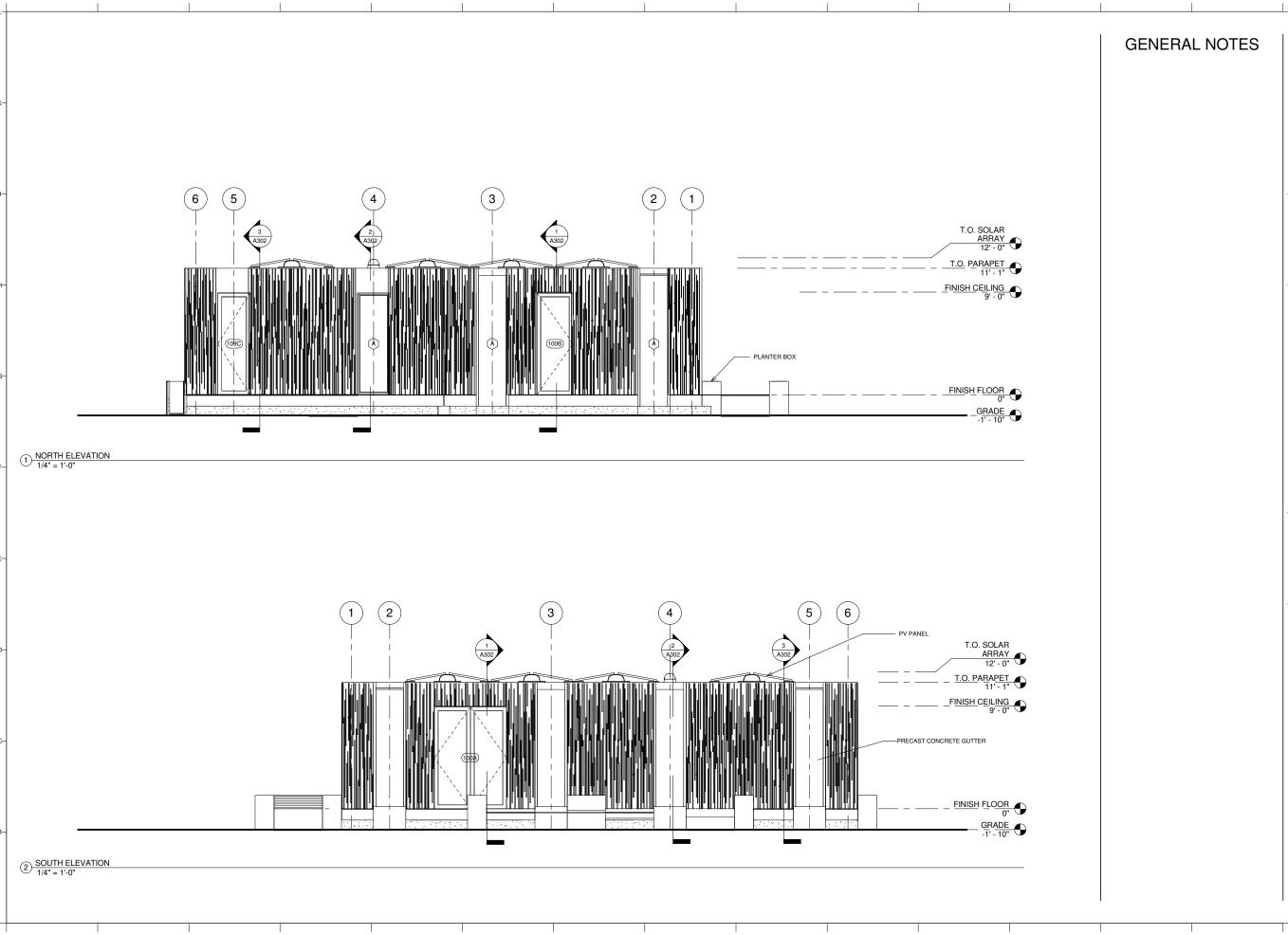














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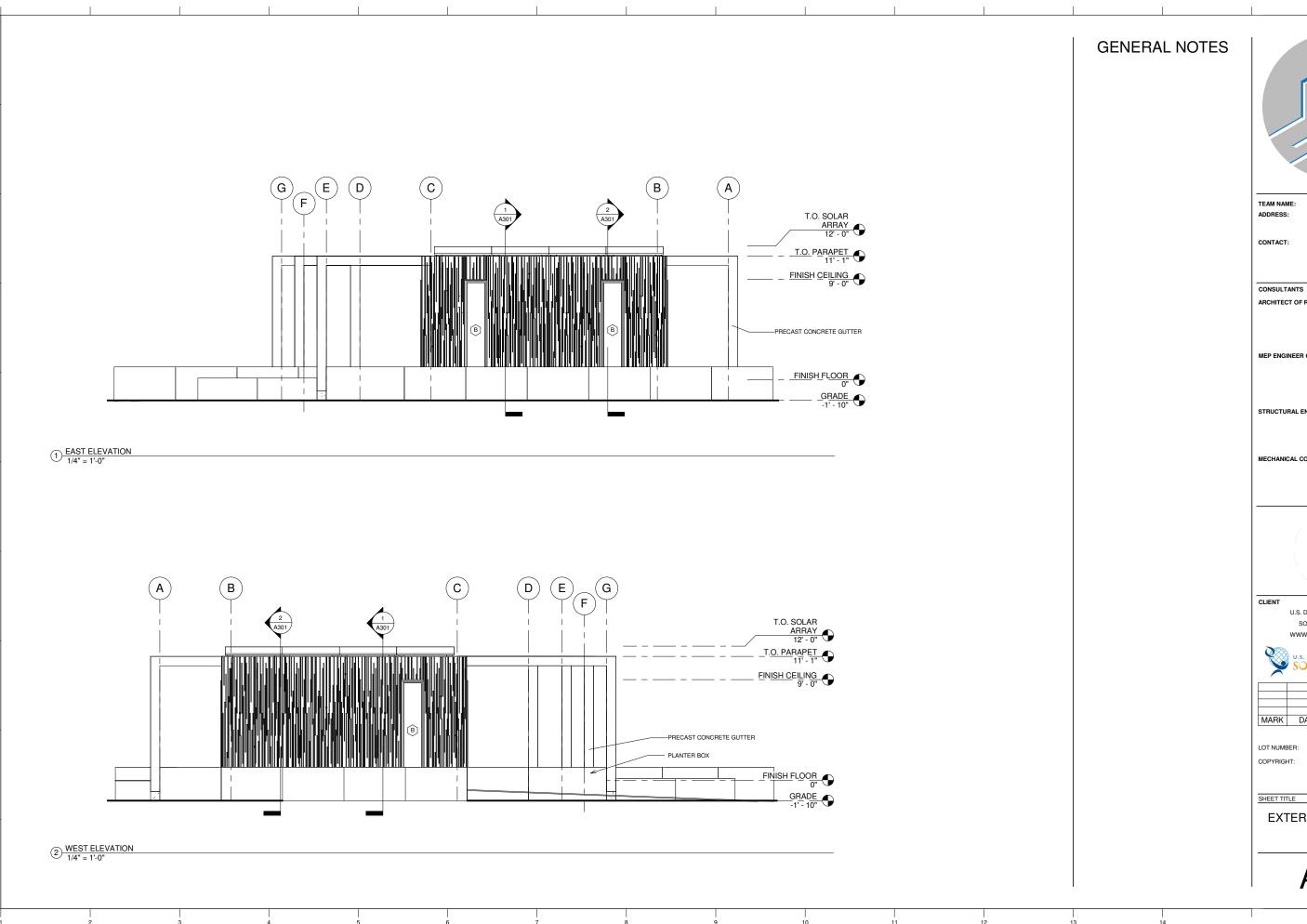
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EXTERIOR ELEVATIONS





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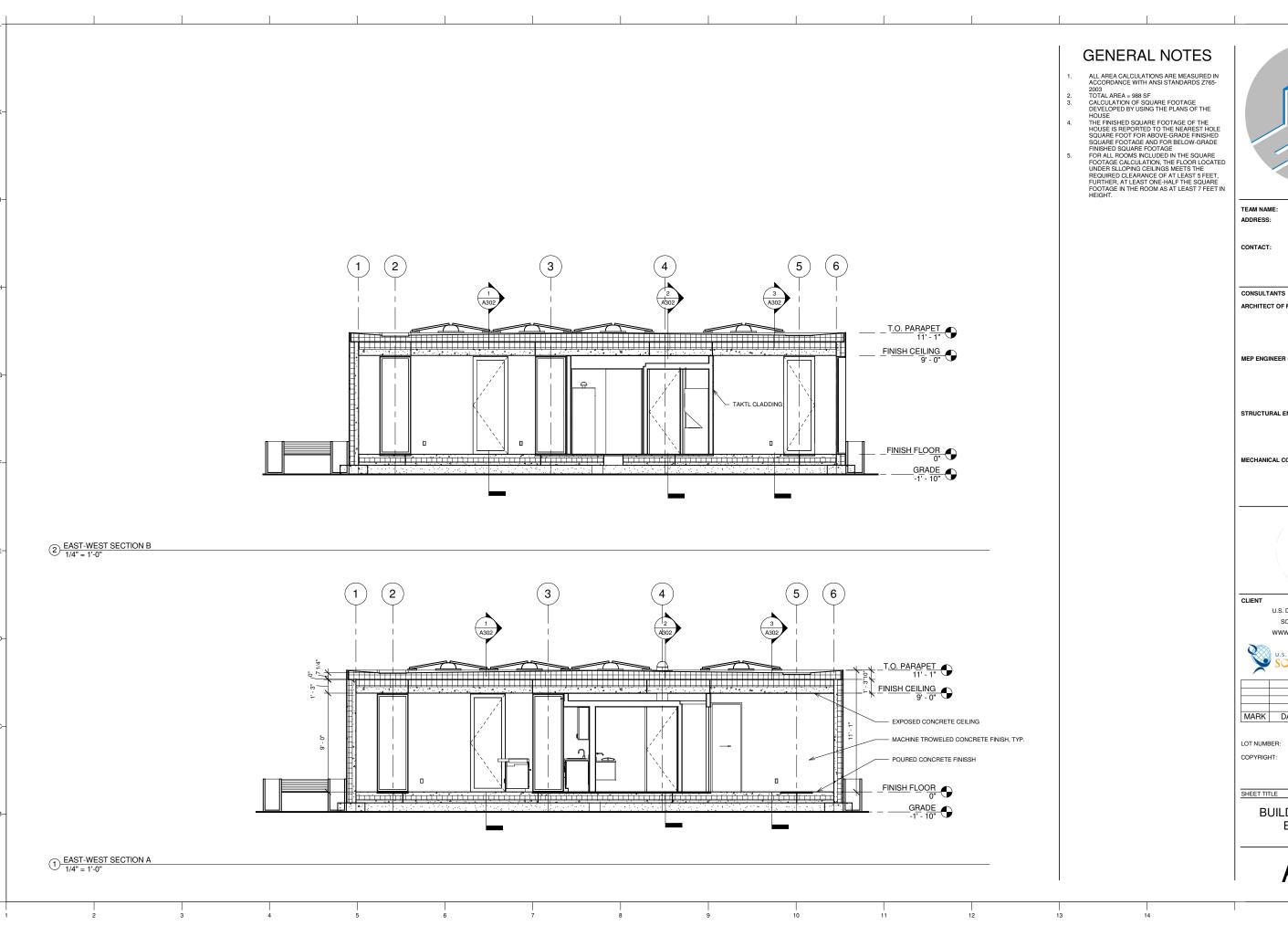


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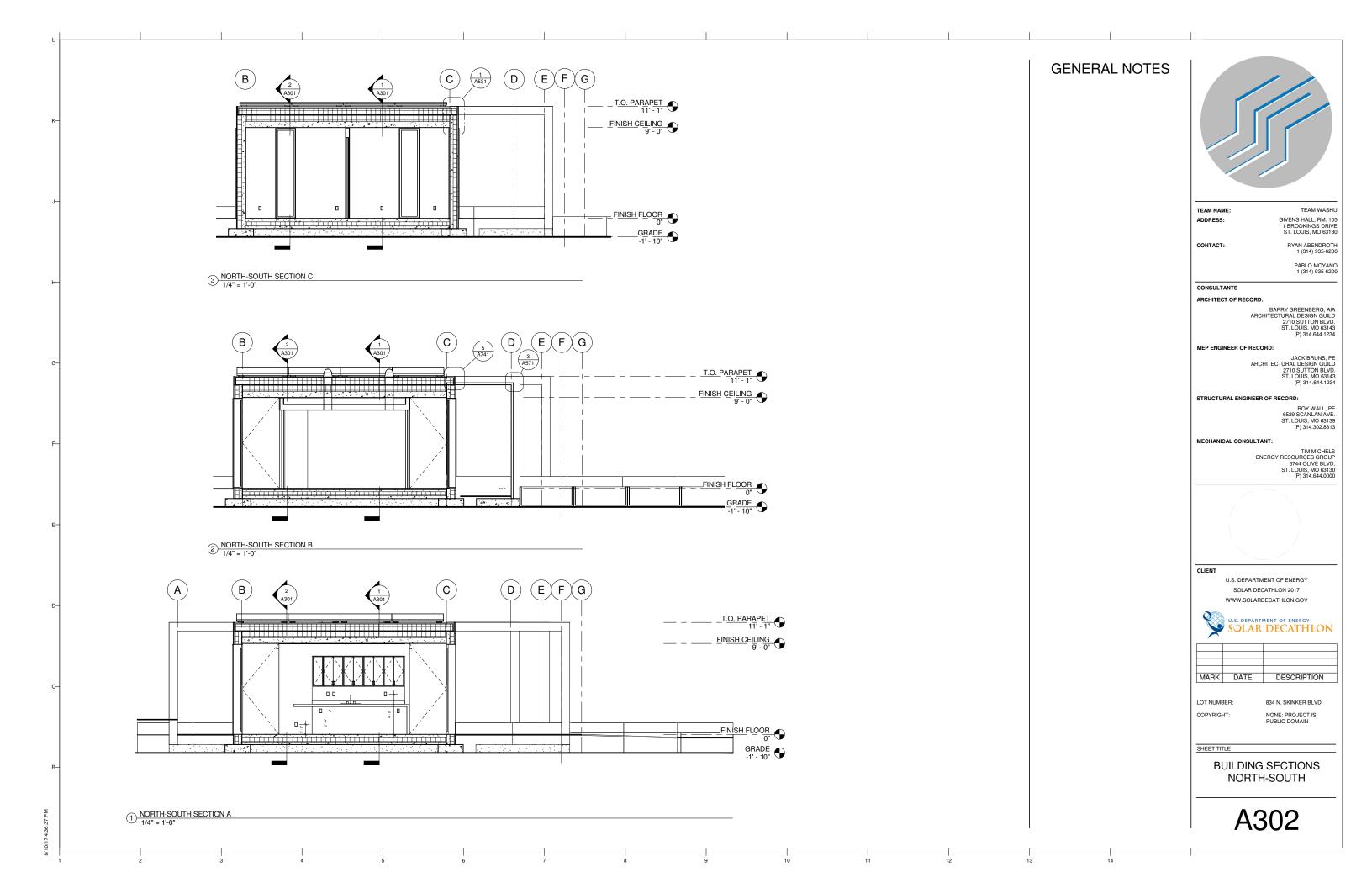


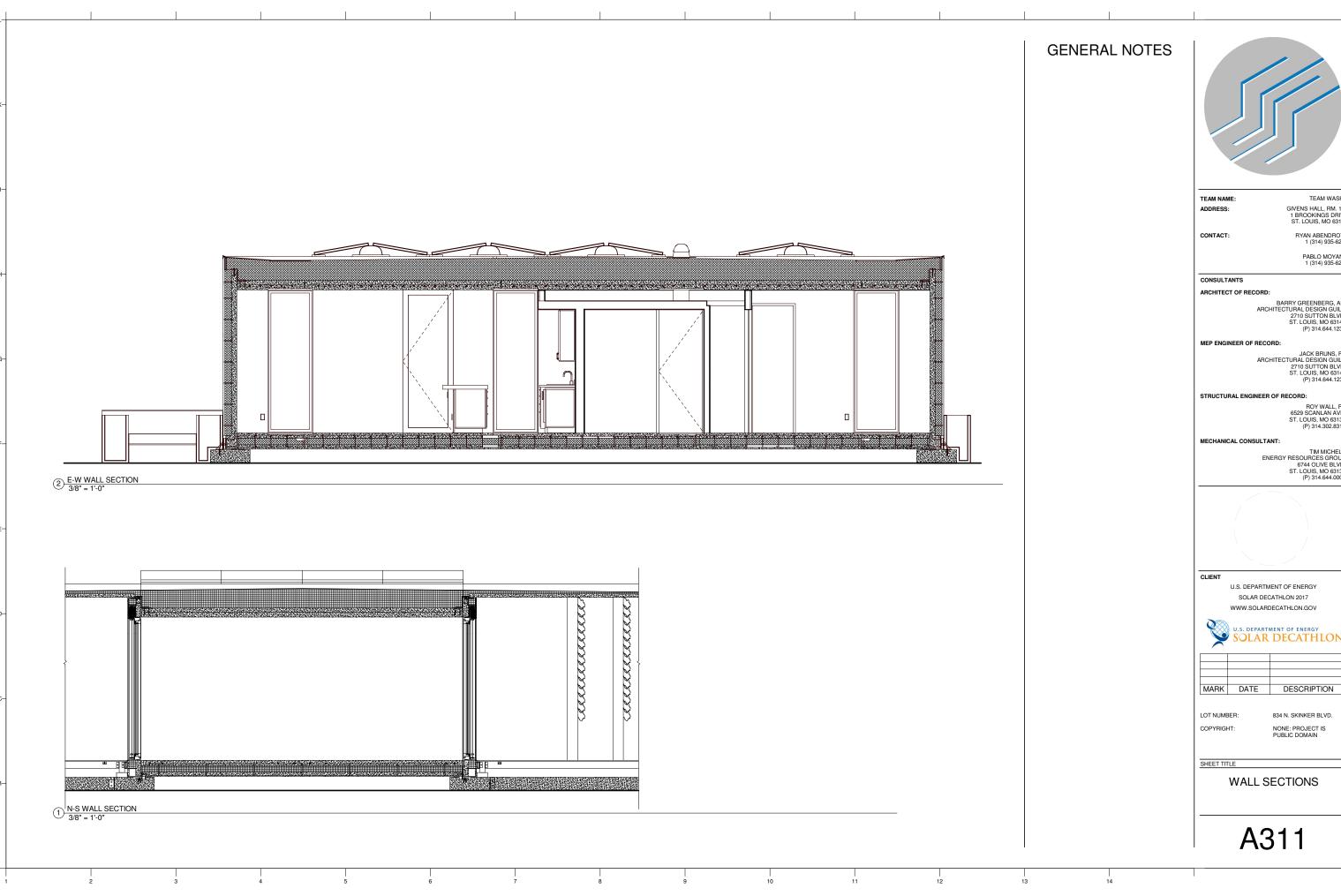
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BUILDING SECTIONS EAST-WEST





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STRUCTURAL ENGINEER OF RECORD:

TIM MICHELS ENERGY RESOURCES GROUP 6744 OLIVE BLVD. ST. LOUIS, MO 63130 (P) 314.644.0000



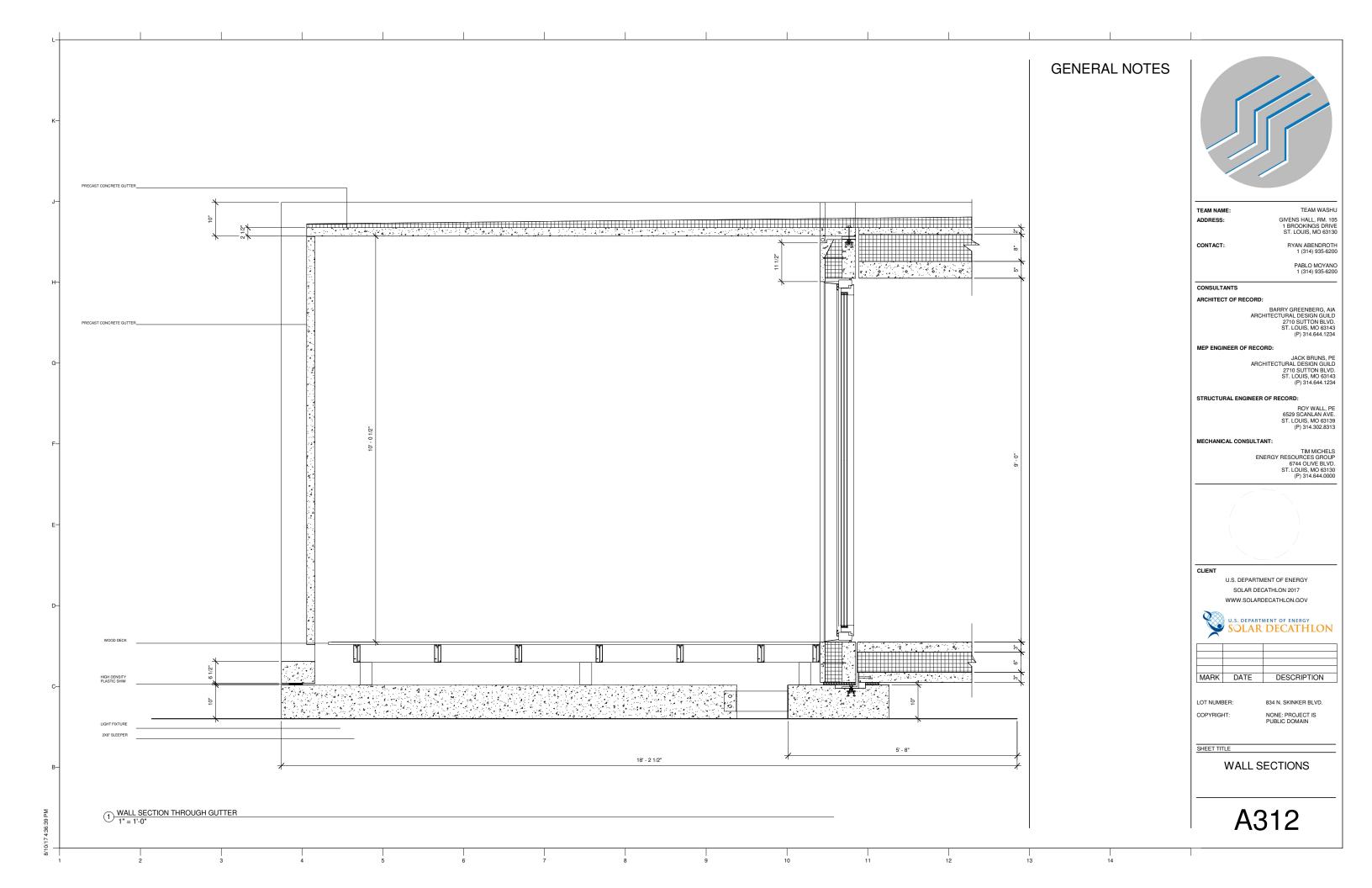
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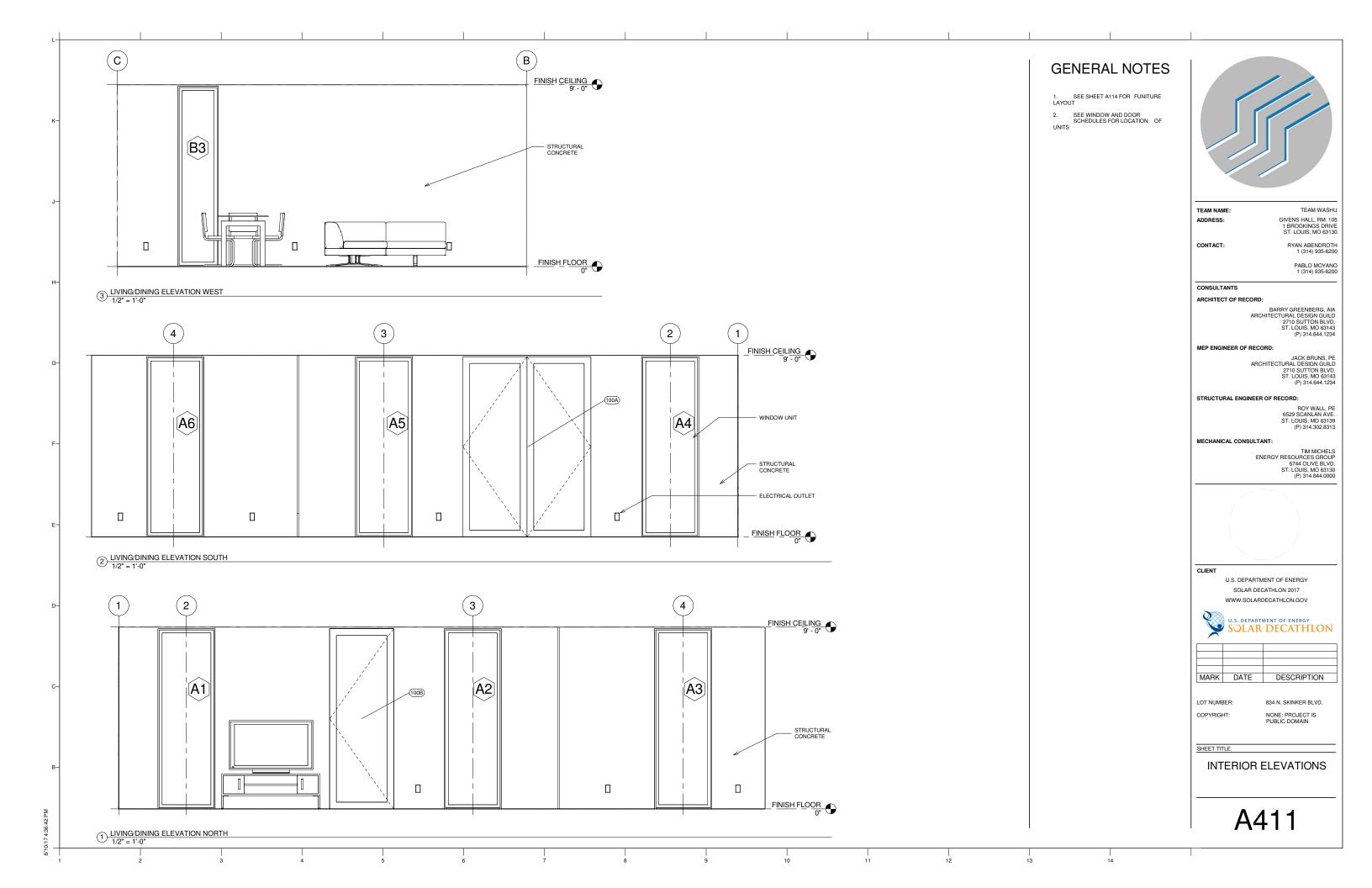


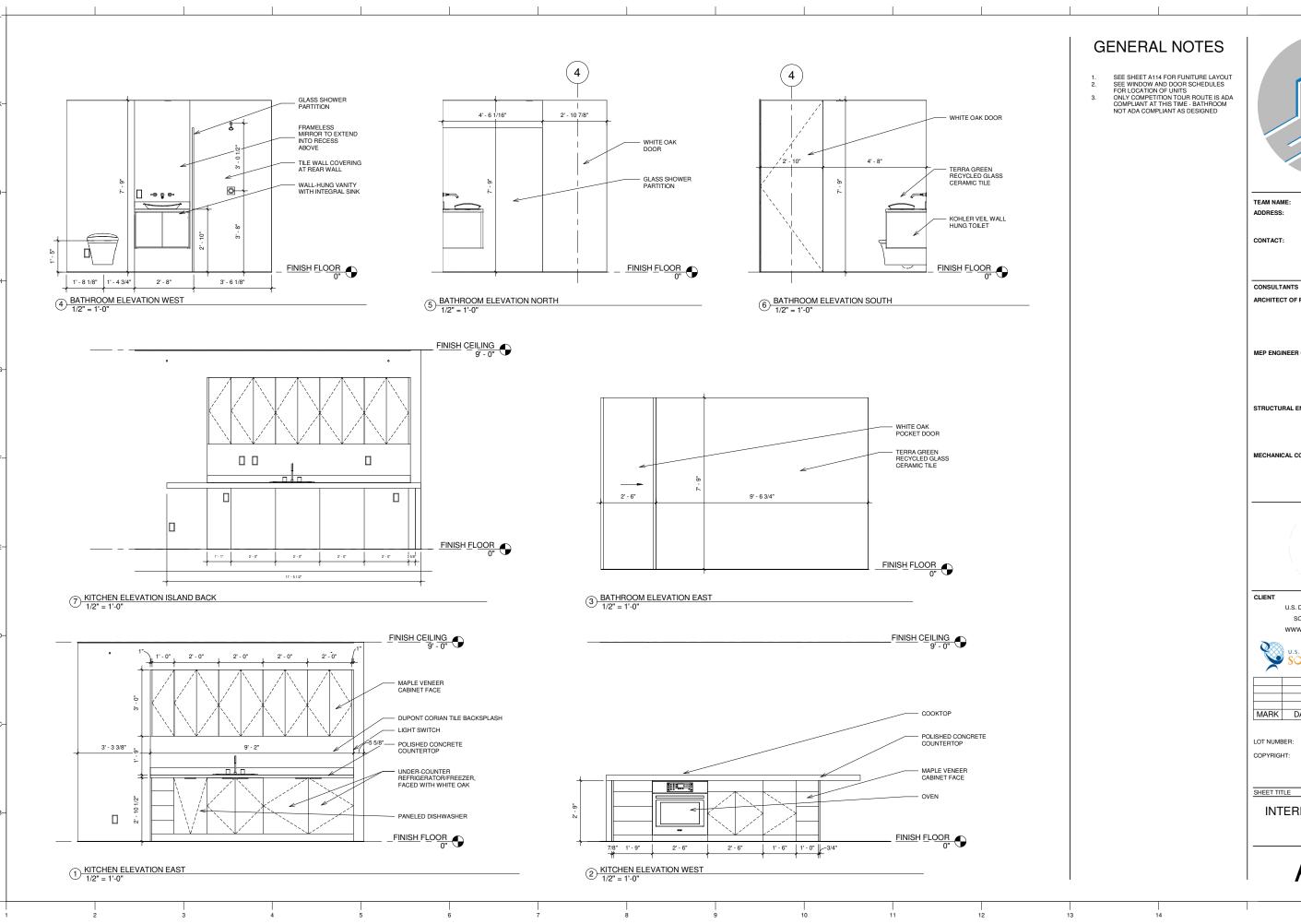
834 N. SKINKER BLVD.

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WALL SECTIONS









TEAM WASHU

GIVENS HALL, RM. 105 1 BROOKINGS DRIVE ST. LOUIS, MO 63130

RYAN ABENDROTH 1 (314) 935-6200

PABLO MOYANO 1 (314) 935-6200

ARCHITECT OF RECORD:

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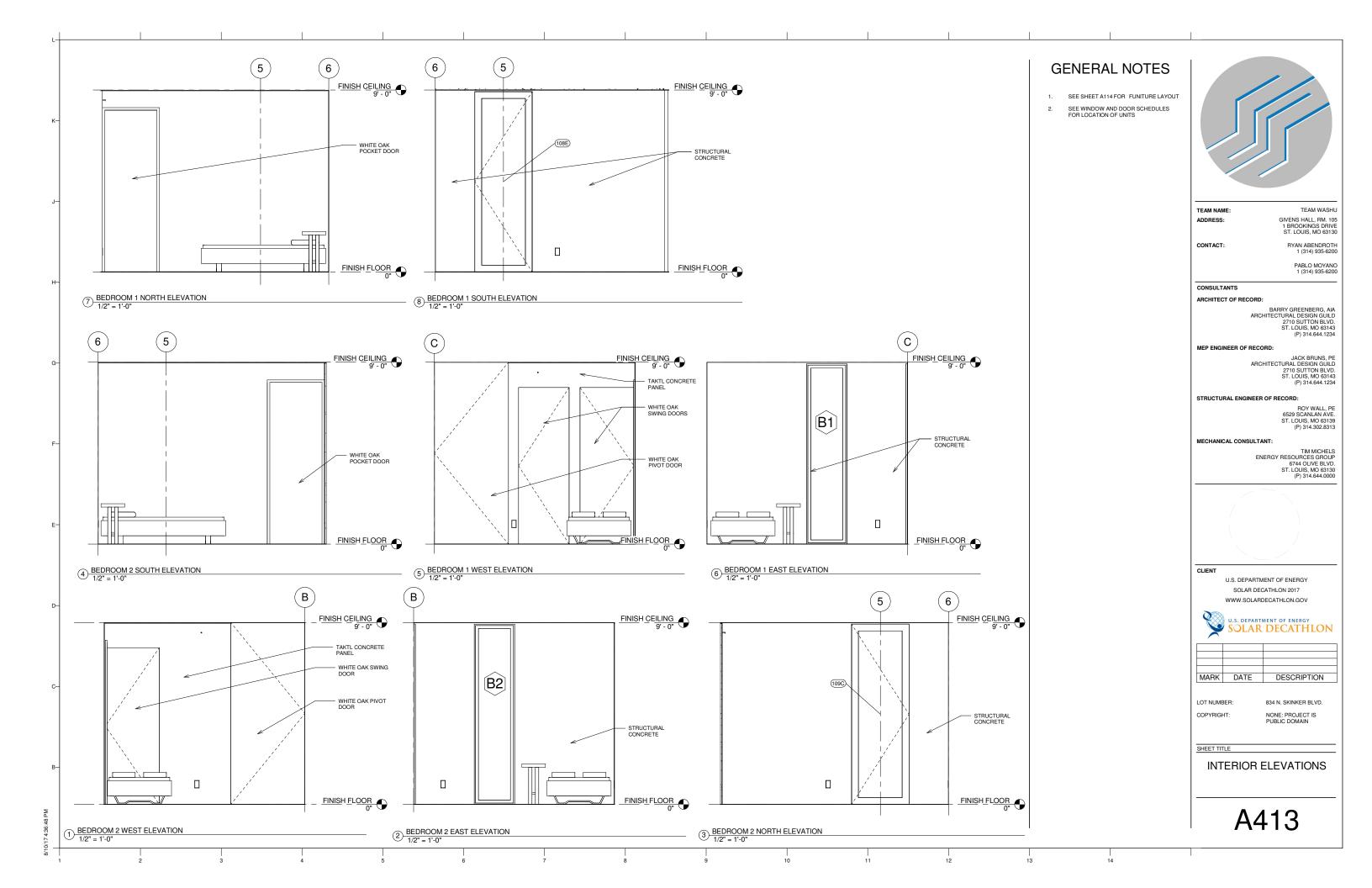


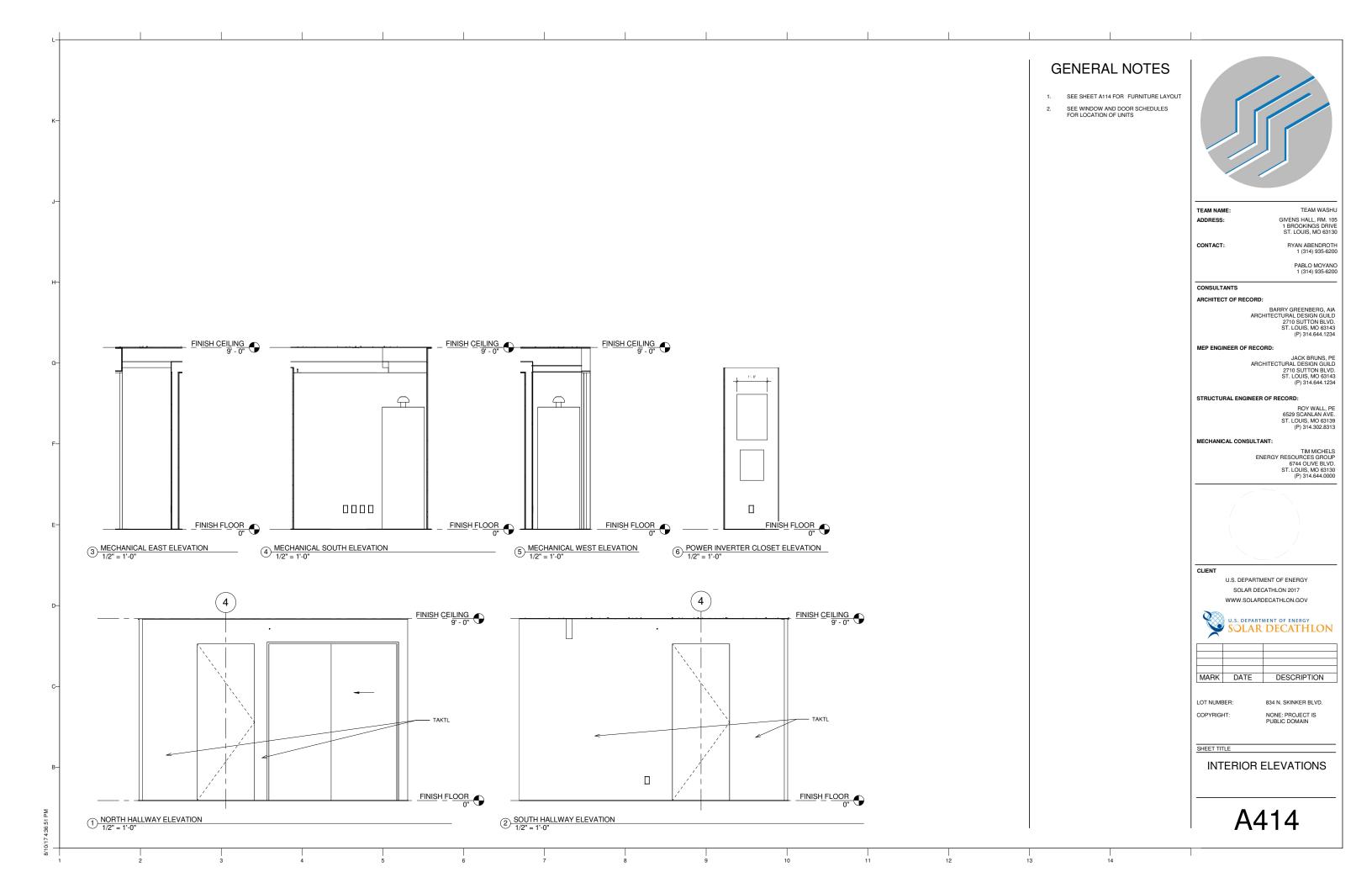
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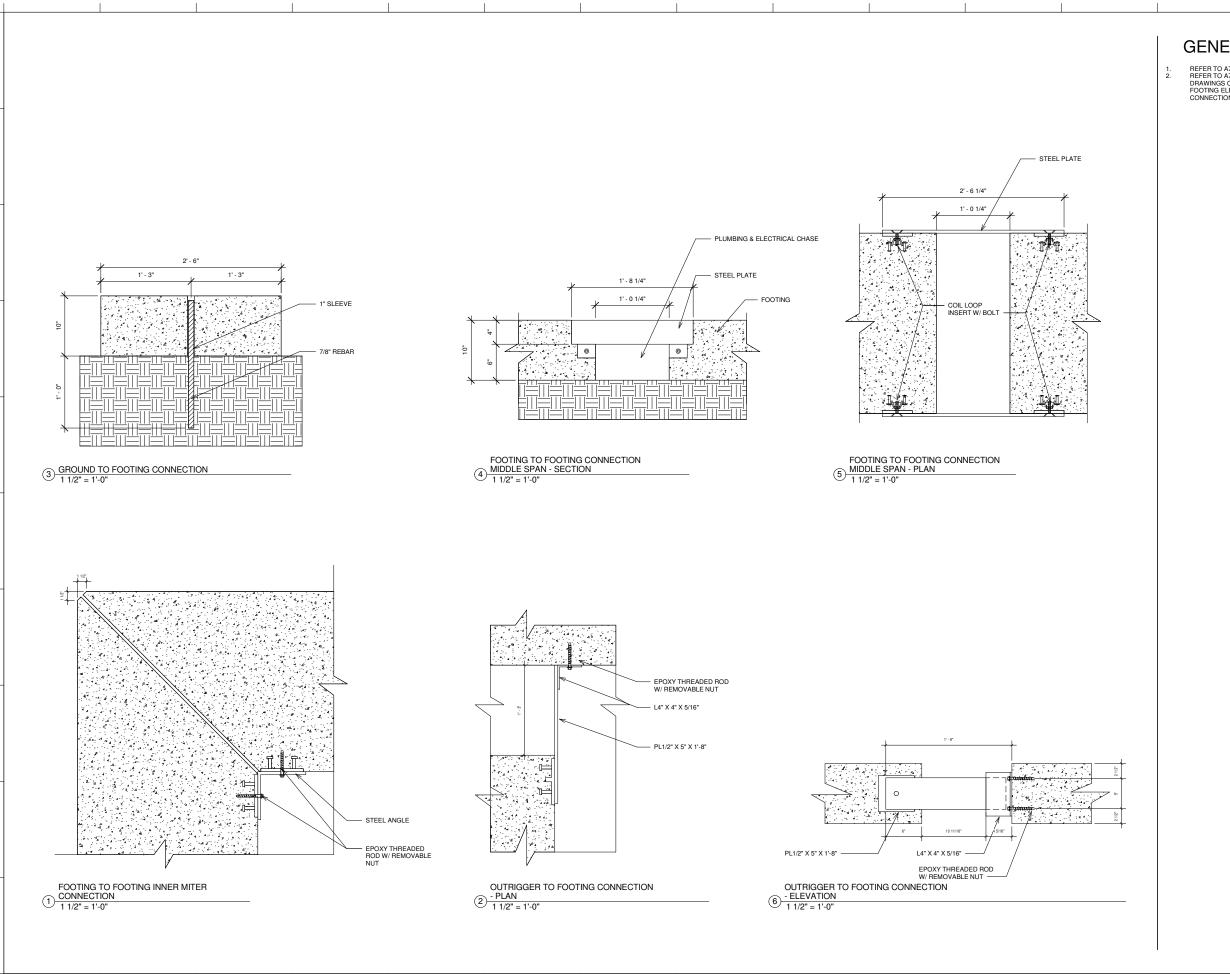
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834 N. SKINKER BLVD.

INTERIOR ELEVATIONS

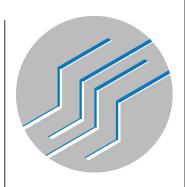






GENERAL NOTES

REFER TO A701 FOR FOOTING LAYOUT REFER TO A702, A703, A704 FOR SHOP DRAWINGS OF EACH INDIVIDUAL PRECAST FOOTING ELEMENTS, INCLUDING ALL CONNECTIONS AND LIFTING/BRACING POINTS



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CONSULTANTS

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MECHANICAL CONSULTANT:

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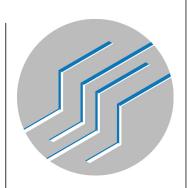
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FOOTING DETAILS

- AESTHETIC TRIM BACKER ROD & SEALANT COMPOSITE PRECAST CONCRETE FLOOR SLAB HYDRONIC HEATING TUBES EXPANDED POLYSTYRENE INSULATION DECKING SURFACE -DECKING STRUCTURE HIGH DENSITY PLASTIC SHIM HIGH DENSITY PLASTIC SHIM 30"X10" TEMPORARY PRECAST FLOOR SLAB TO FOOTING CONC. STRIP FOOTING EPOXY THREADED ROD W/ REMOVABLE NUT 3 FOOTING TO FLOOR CONNECTION 1 1/2" = 1'-0" 1" RECESS 1/4" STEEL PLATE WOODEN STRIP PRESTRESS HYDRONIC HEATING TUBES REBAR EXPANDED POLYSTYRENE INSULATION 1/2" STEEL PLATE STRUCTURAL CONCRETE LAYER 1" RECESS 1/4" STEEL PLATE RECESS SLAB EDGE 1 FLOOR TO FLOOR CONNECTION (SECT) 2 FLOOR TO FLOOR CONNECTION (PLAN) 1 1/2" = 1'-0" COIL LOOP INSERT W/ BOLT

GENERAL NOTES

REFER TO SHEET A711 FOR LOCATIONS OF ALL CONNECTIONS AND BRACE POINTS INTEGRATED INTO THE FLOORSLAB ASSEMBLY



ADDRESS:

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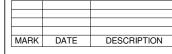
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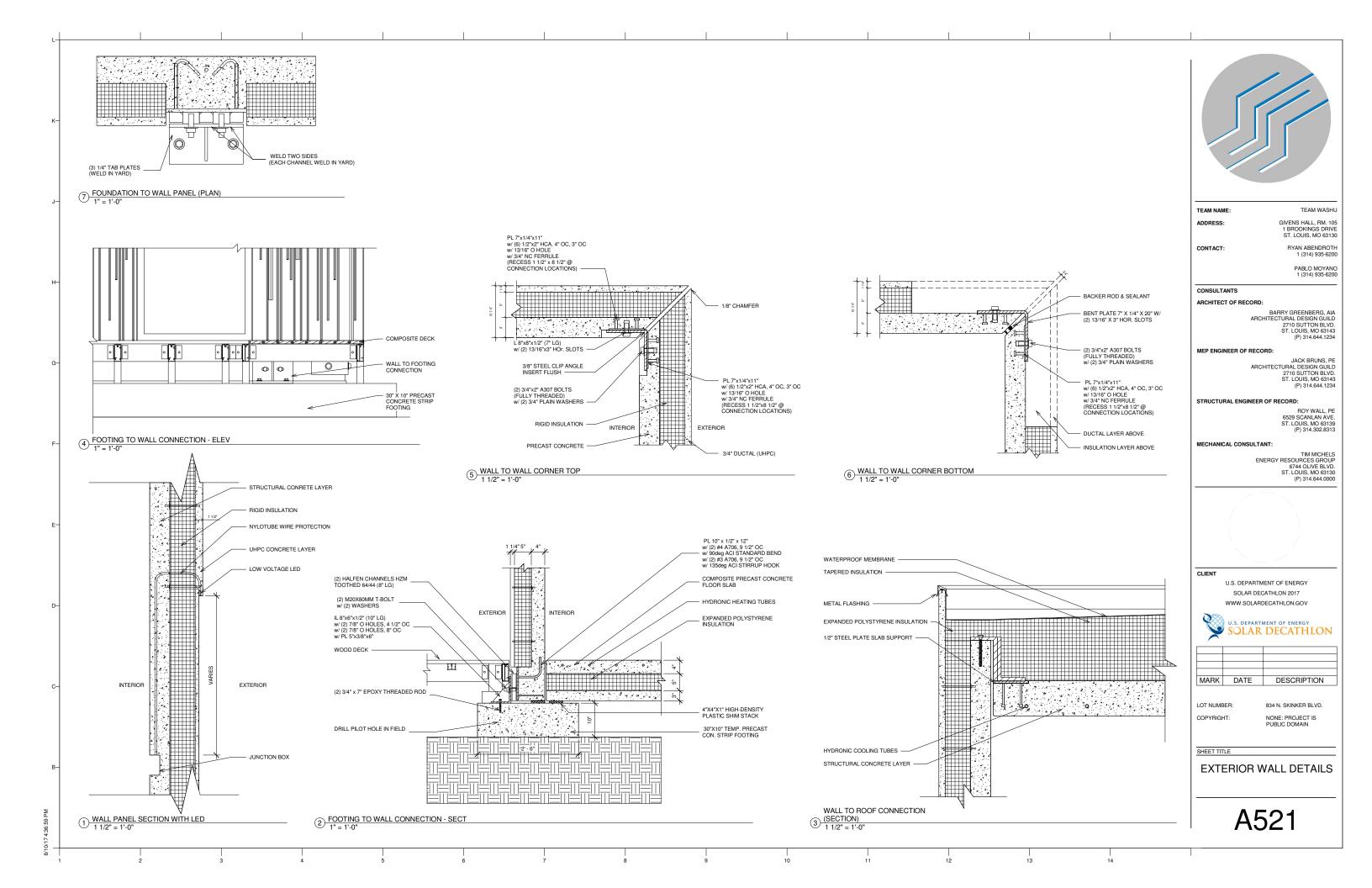
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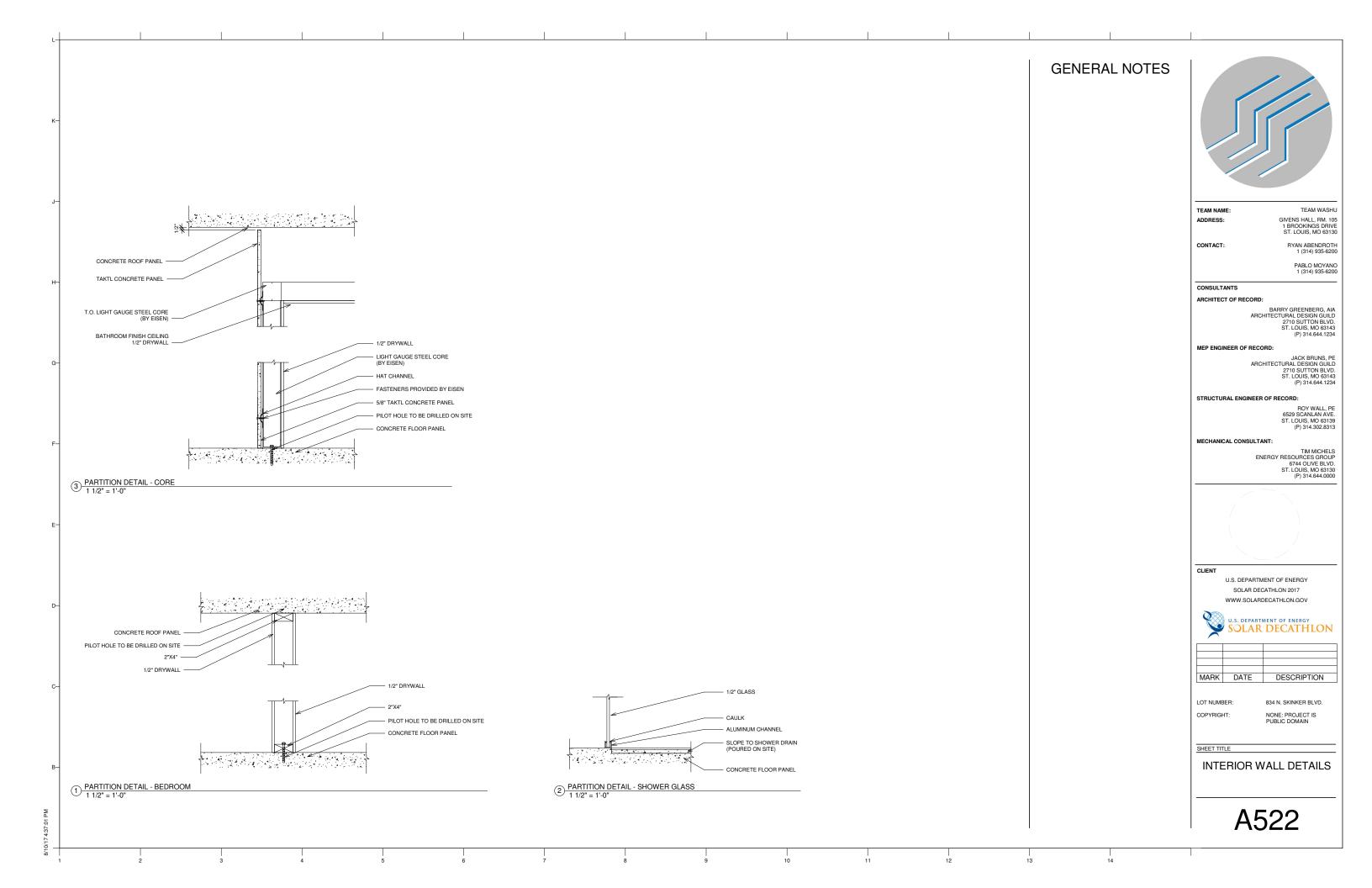
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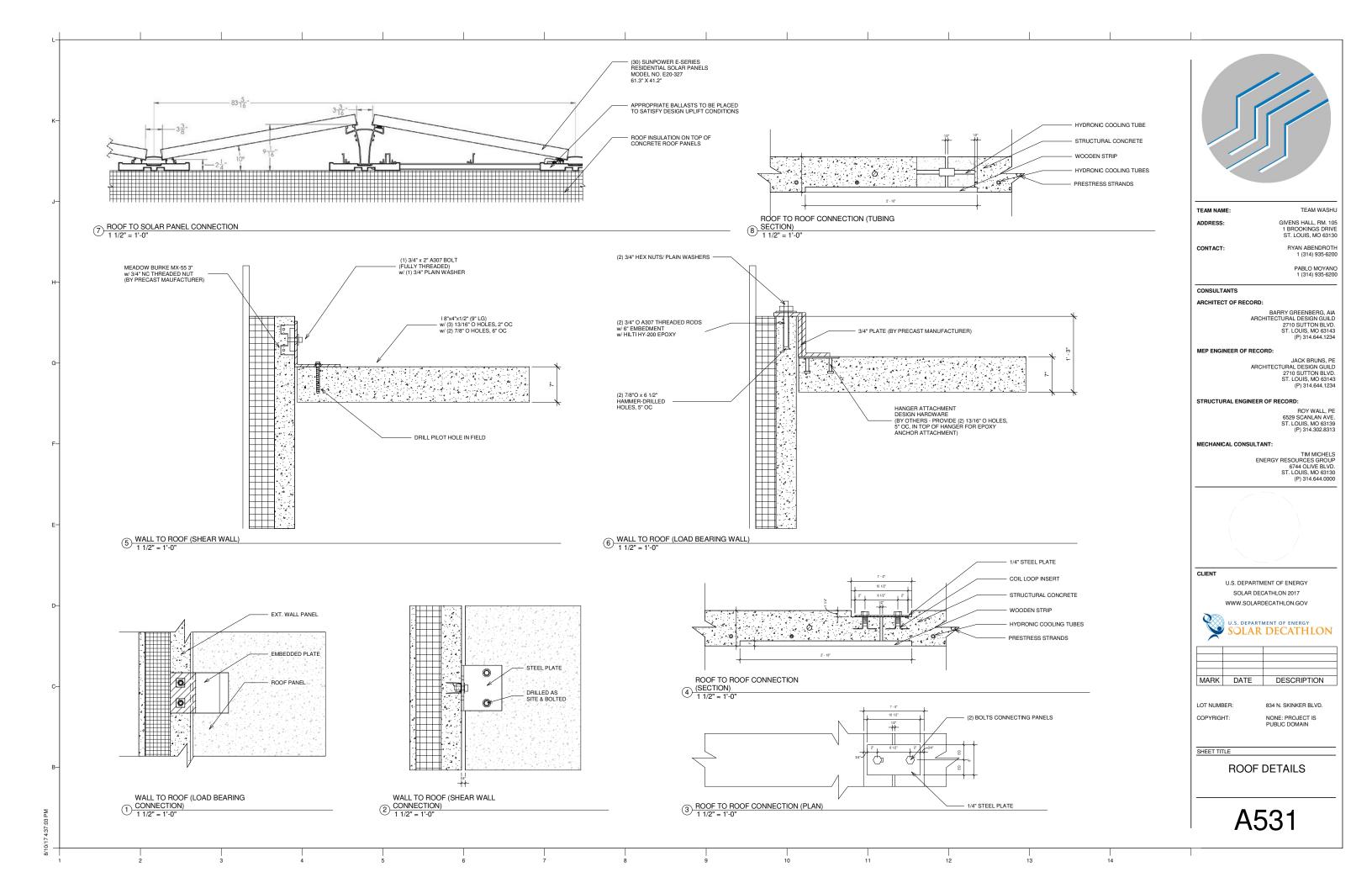
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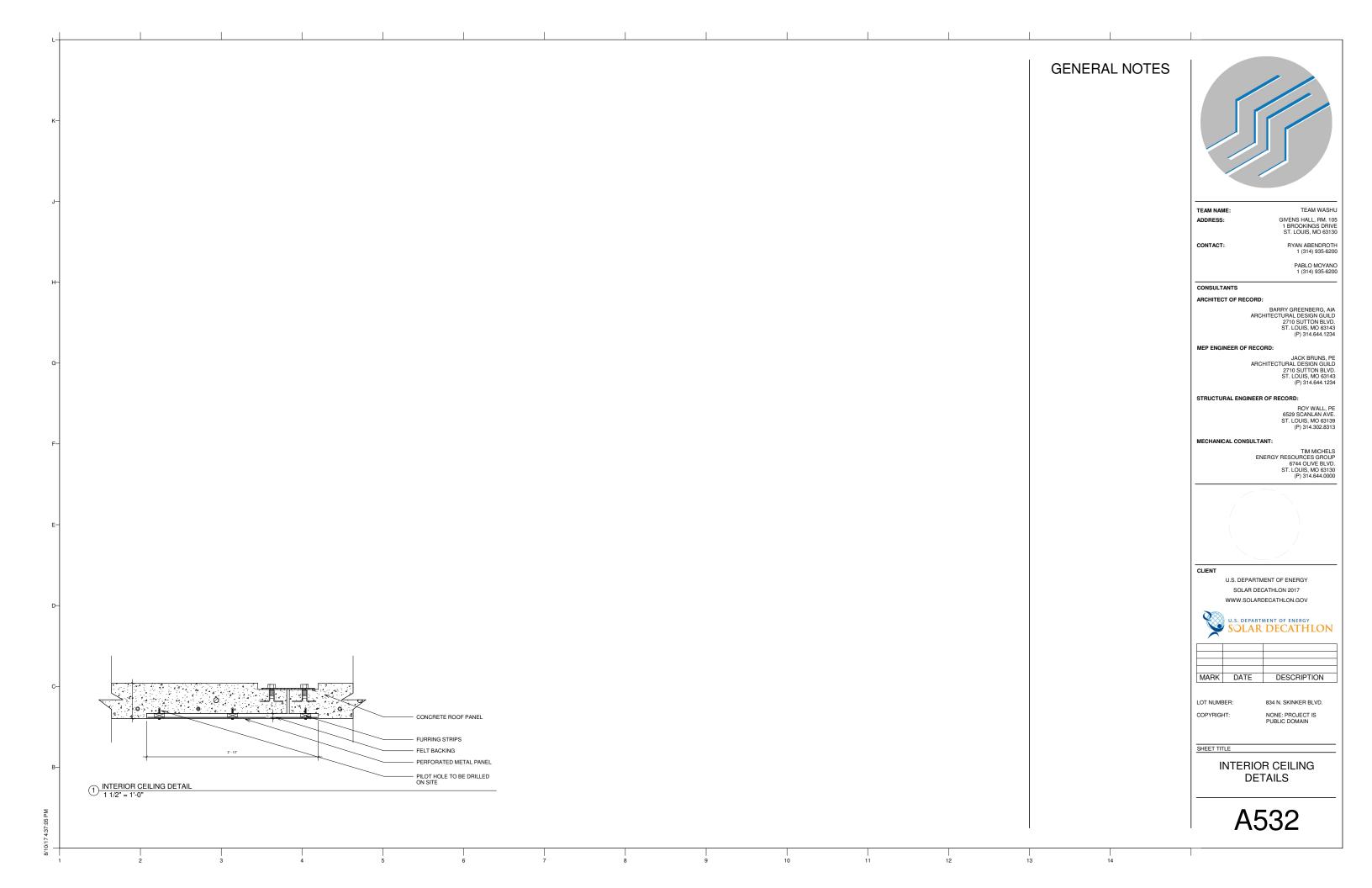
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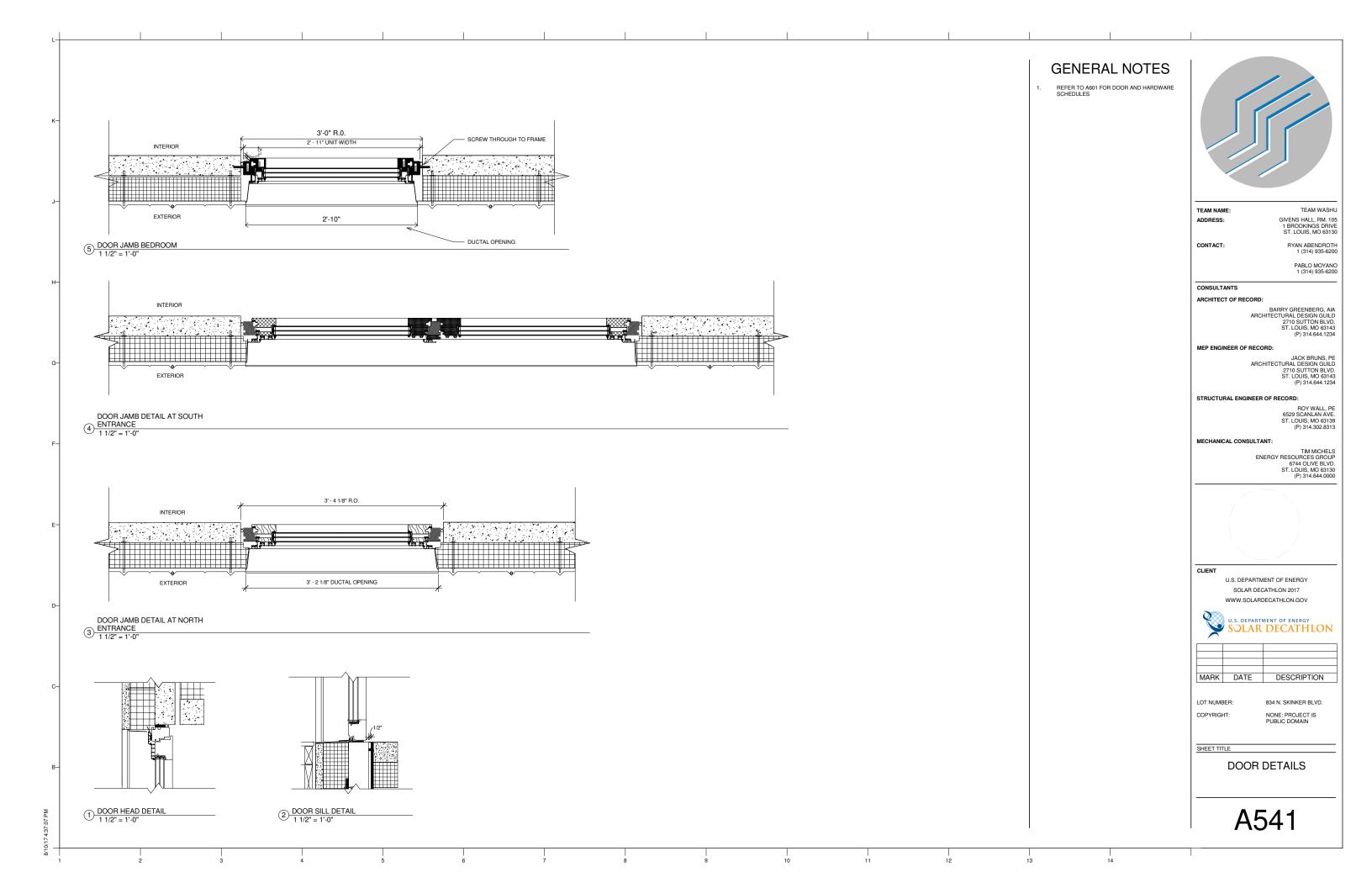
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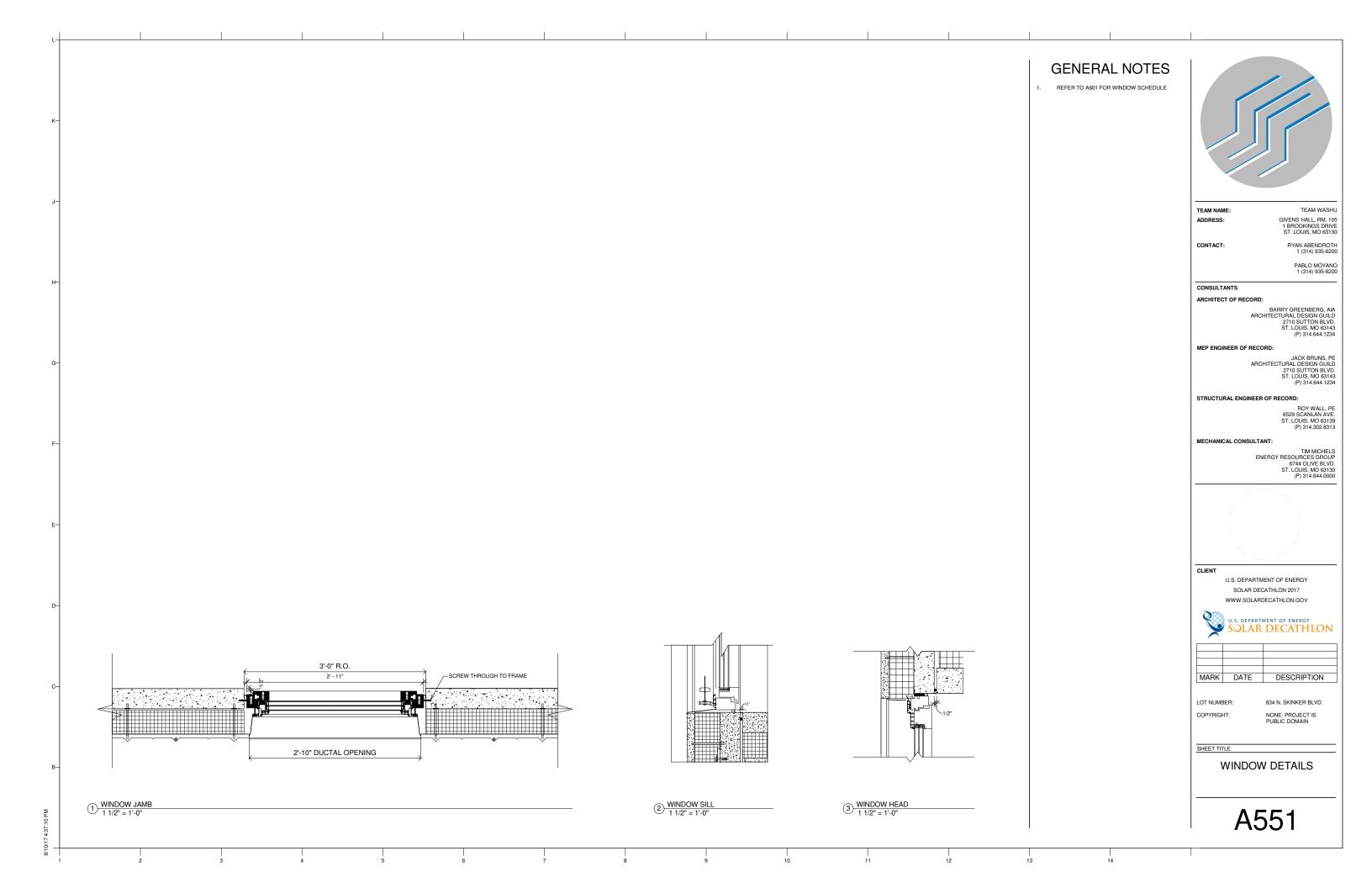












GENERAL NOTES

ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 WIND TIE DOWN ANCHOR SHALL BE TESTED IN FIELD AT DEPT SHOWN. TYPE AT DEPTH SHALL BE CAPABLE OF 1000# UPLIFT



TEAM NAME:

ADDRESS:

CONTACT:

: TEAM WASHU

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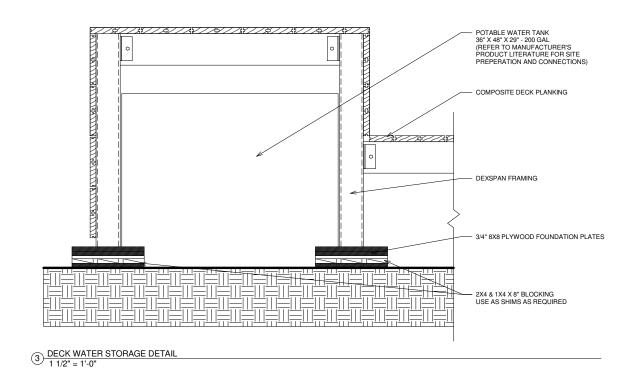
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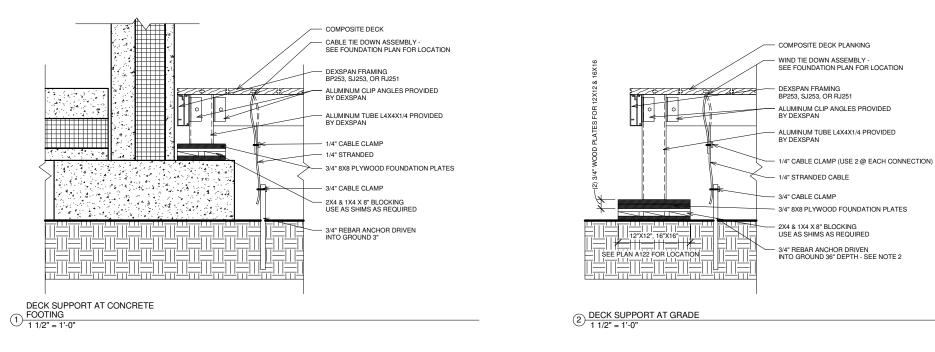
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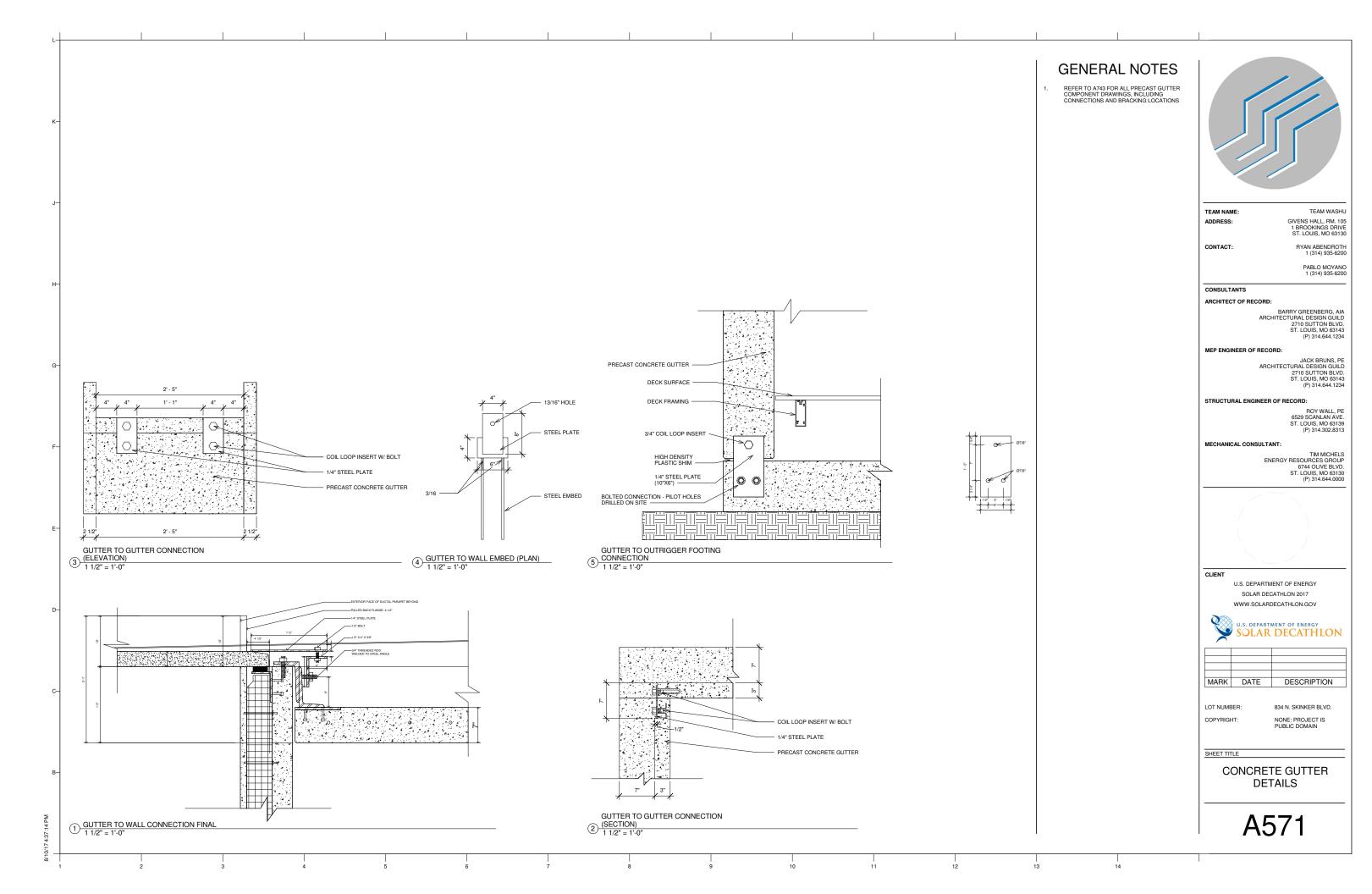
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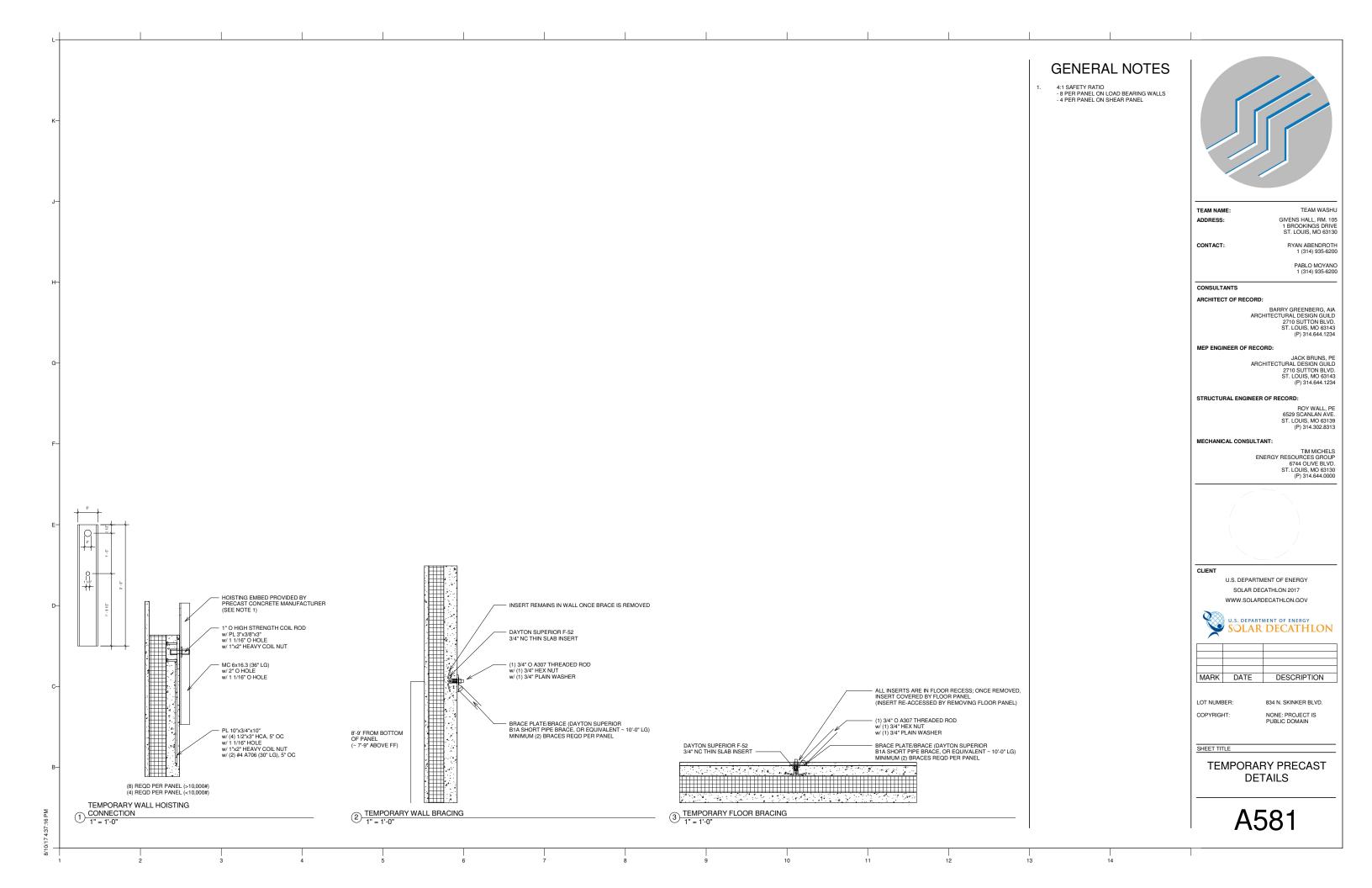
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DECK DETAILS







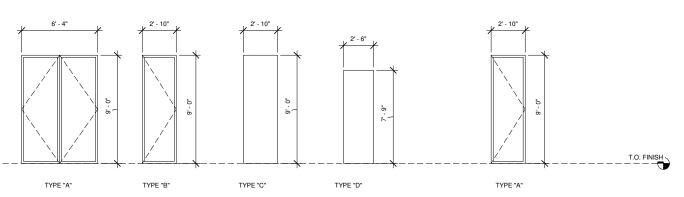


DOOR SCHEDULE																
	DOOR DIMENSIONS		ROUGH OPENING (MEASURED BY GATE)							DETAIL			MATERIALS AND FINISHES			
MARK	HEIGHT	WIDTH	HEIGHT	WIDTH	MANUFACTURER	MODEL	SWING TYPE	FRAME TYPE	FIRE RATING	HEAD	JAMB	SILL	DOOR	FRAME	FINISH	
100A	8' - 11 1/4"	6' - 5 3/4"	9'-0"	6'-6 1/4"	MFRG		В	TYP.	N/A	3 / A541	4 / A541	2 / A541			Prefinished	
100B	8' - 11 1/4"	3' - 3 1/2"	9'-0"	3'-4"	MFRG		Α	TYP.	N/A	3 / A541	1 / A541	2 / A541			Prefinished	
108E	8' - 11 1/4"	2' - 11 1/4"	9'-0"	3'-0"	MFRG											
109C	8' - 11 1/4"	2' - 11 1/4"	8'-11 5/8"	2'-11 3/4"	MFRG											

	WINDOW SCHEDULE													
	DESIGNED DIMENSIONS		ROUGH OPENING (MEASURED BY GATE)						DETAIL		GLAZING			
MARK	HEIGHT	WIDTH	HEIGHT	WIDTH	MANUFACTURER	MODEL	MATERIAL	FINISH	JAMB	HEAD	SILL	THICKNESS	TYPE	HEAD HEIGHT
A1	8' - 11 1/4"	2' - 11 1/4"	8'-11 3/4"	3'-0"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
A2	8' - 11 1/4"	2' - 11 1/4"	9'-0"	3'-0"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
A3	8' - 11 1/4"	2' - 11 1/4"	9'-0"	2'-11 3/4"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
A4	8' - 11 1/4"	2' - 11 1/4"	9'-0"	3'-0"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
A5	8' - 11 1/4"	2' - 11 1/4"	8' - 11 7/8"	3'-0 3/16"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
A6	8' - 11 1/4"	2' - 11 1/4"	9'-0 1/8"	3'-0"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
B1	8' - 11 1/4"	2' - 1 1/2"	8'-11 13/16"	2'-2"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
B2	8' - 11 1/4"	2' - 1 1/2"	8'-11 7/8"	2'-2"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"
B3	8' - 11 1/4"	2' - 1 1/2"	9'-0"	2'-2"	MFRG			Prefinished	1 / A531	3 / A531	2 / A531	1 7/8"	Insulated Triple Pane LowE	8' - 11"

WINDOW TYPES

DOOR TYPES



1) DOOR, WINDOW, & FRAME TYPES

DOOR HARDWARE

- ALL DOOR HARDWARE WILL COMPLY WITH SECTION 404.2.7 OF THE ADA STANDARDS. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS SHALL COMPLY WITH 309.4.
 OPERABLE PARTS OF SUCH HARDWARE SHOULD BE 34° MIN. AND 48° MAX. ABOVE THE FINISH FLOOR OR GROUND.

GENERAL NOTES

ROUGH OPENINGS ARE MEASURED IN THE OUTER LAYER OF CONCRETE IN EACH WALL PANEL, WHICH ENCROACH ON EACH WINDOW AND DOORS USABLE SPACE



ADDRESS:

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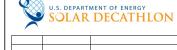
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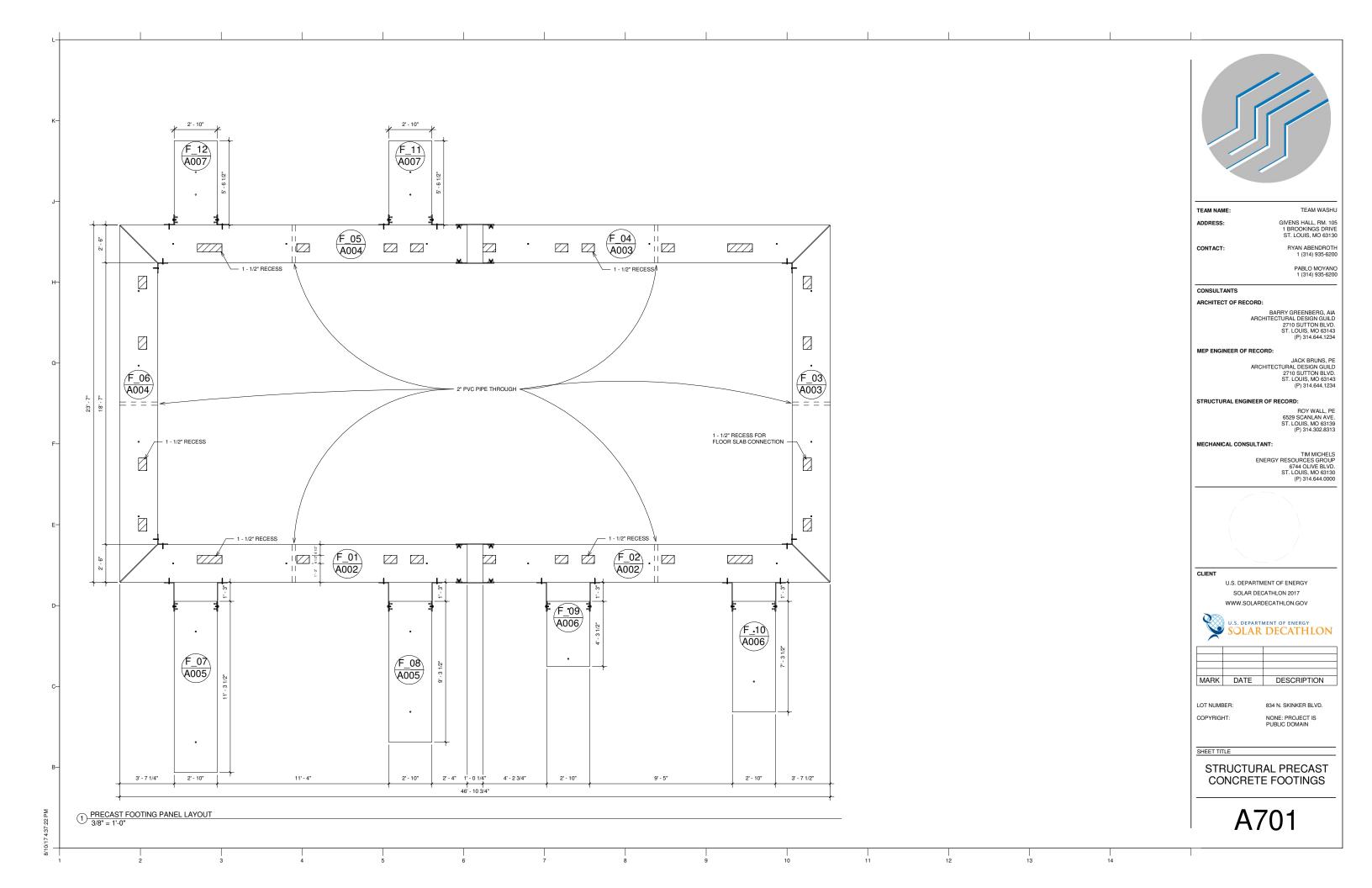
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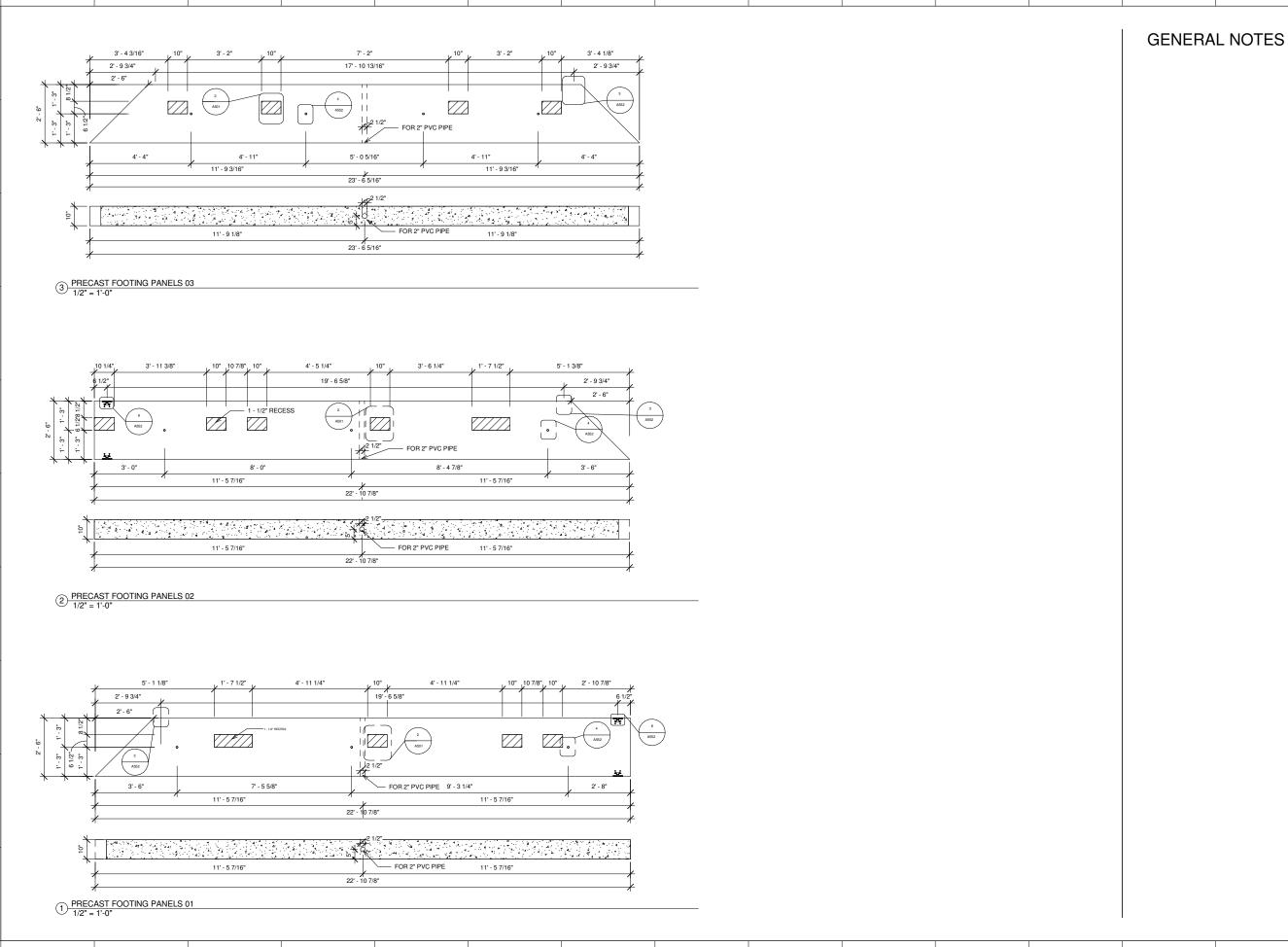
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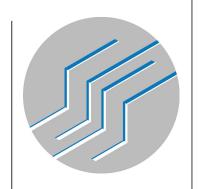
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ARCHITECTURAL SCHEDULES







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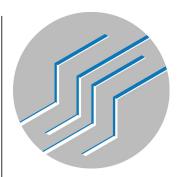
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STRUCTURAL PRECAST CONCRETE FOOTINGS





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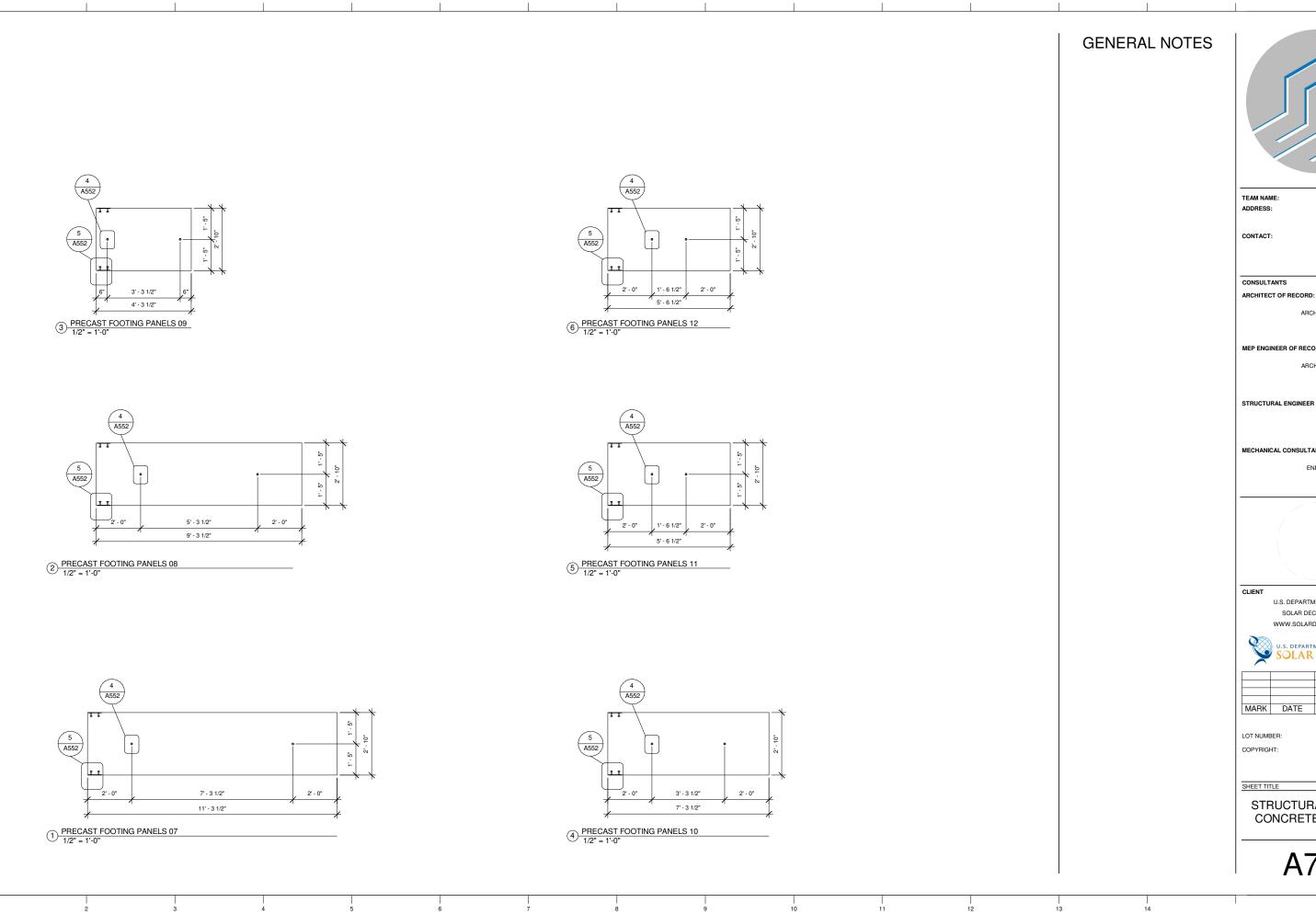




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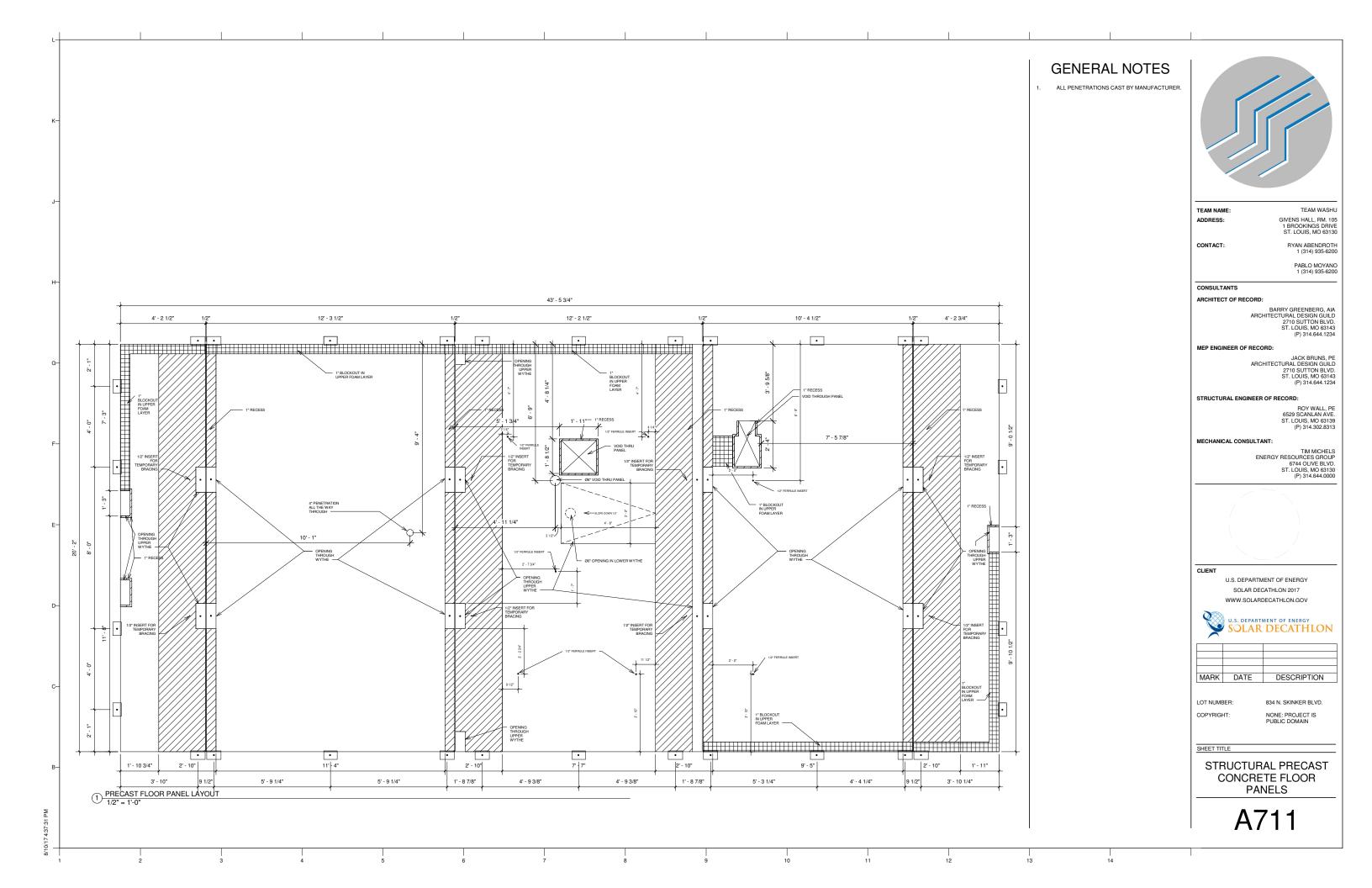


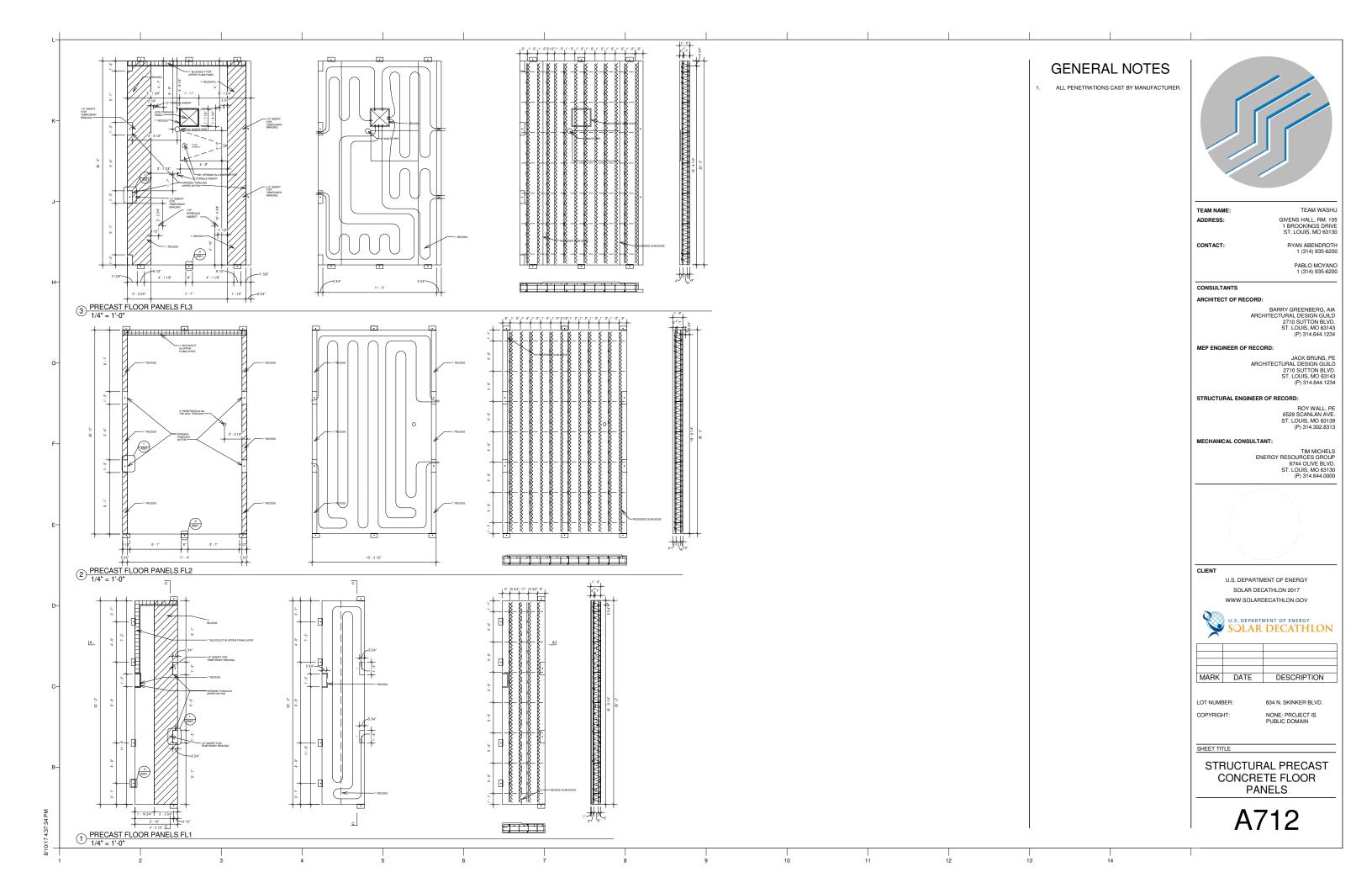


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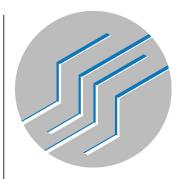
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STRUCTURAL PRECAST CONCRETE FOOTINGS





GENERAL NOTES ADDRESS: CONTACT: CONSULTANTS 2 PRECAST FLOOR PANELS FL5 1/4" = 1'-0" CLIENT LOT NUMBER: COPYRIGHT: SHEET TITLE -5 3/4" g·-5" 5 3/4" PRECAST FLOOR PANELS FL4 1/4" = 1'-0"



TEAM WASHU

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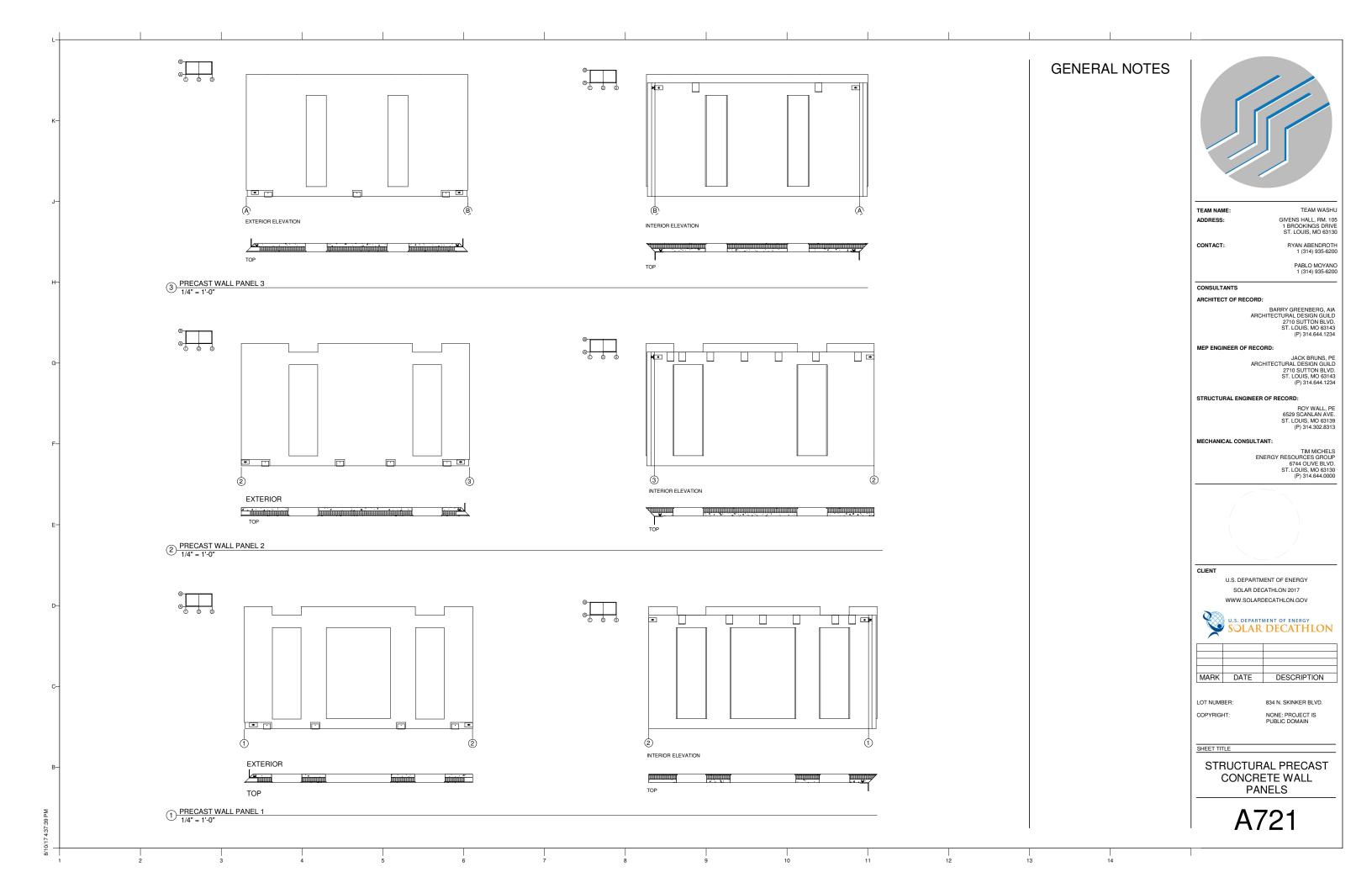


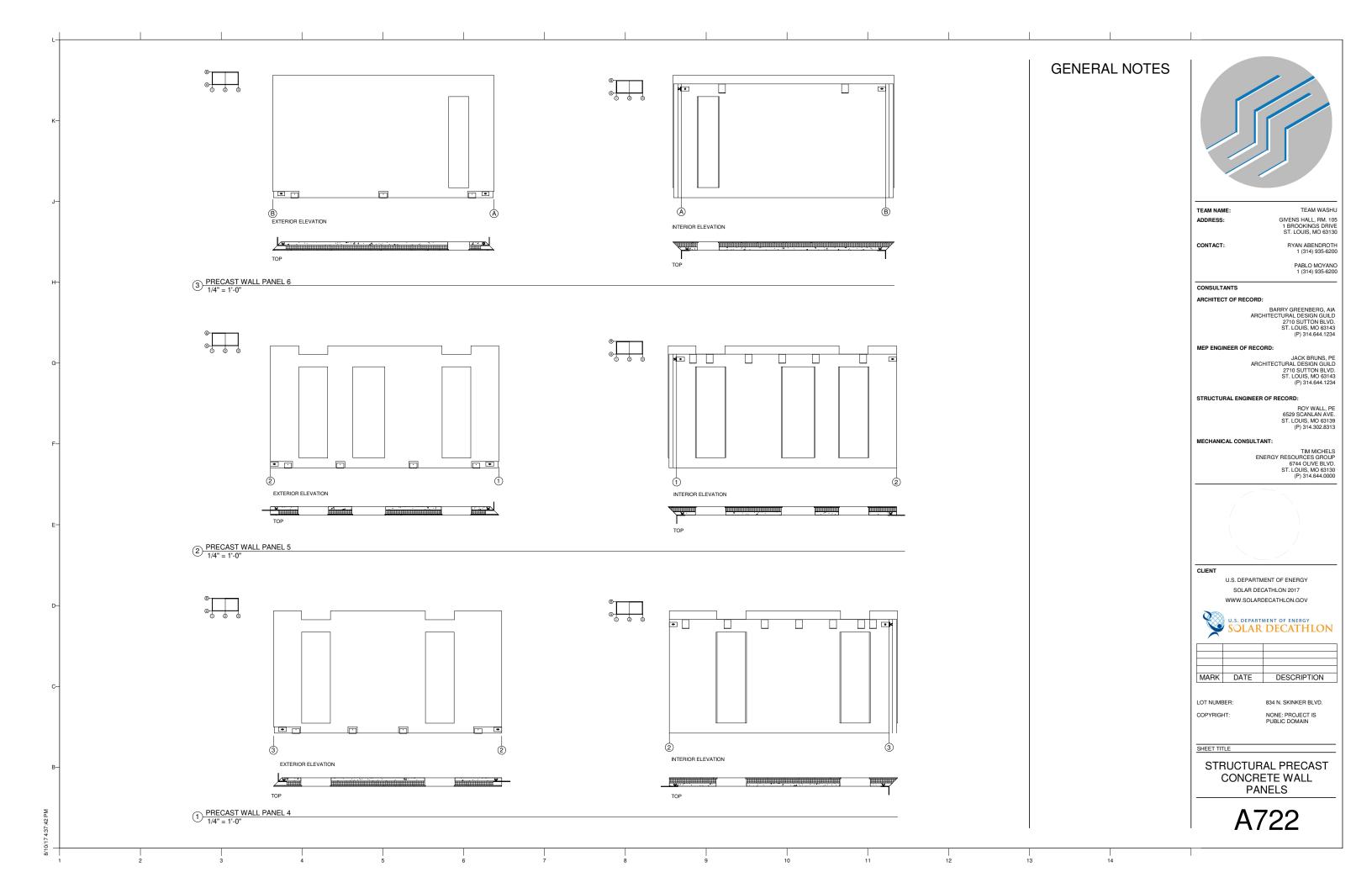
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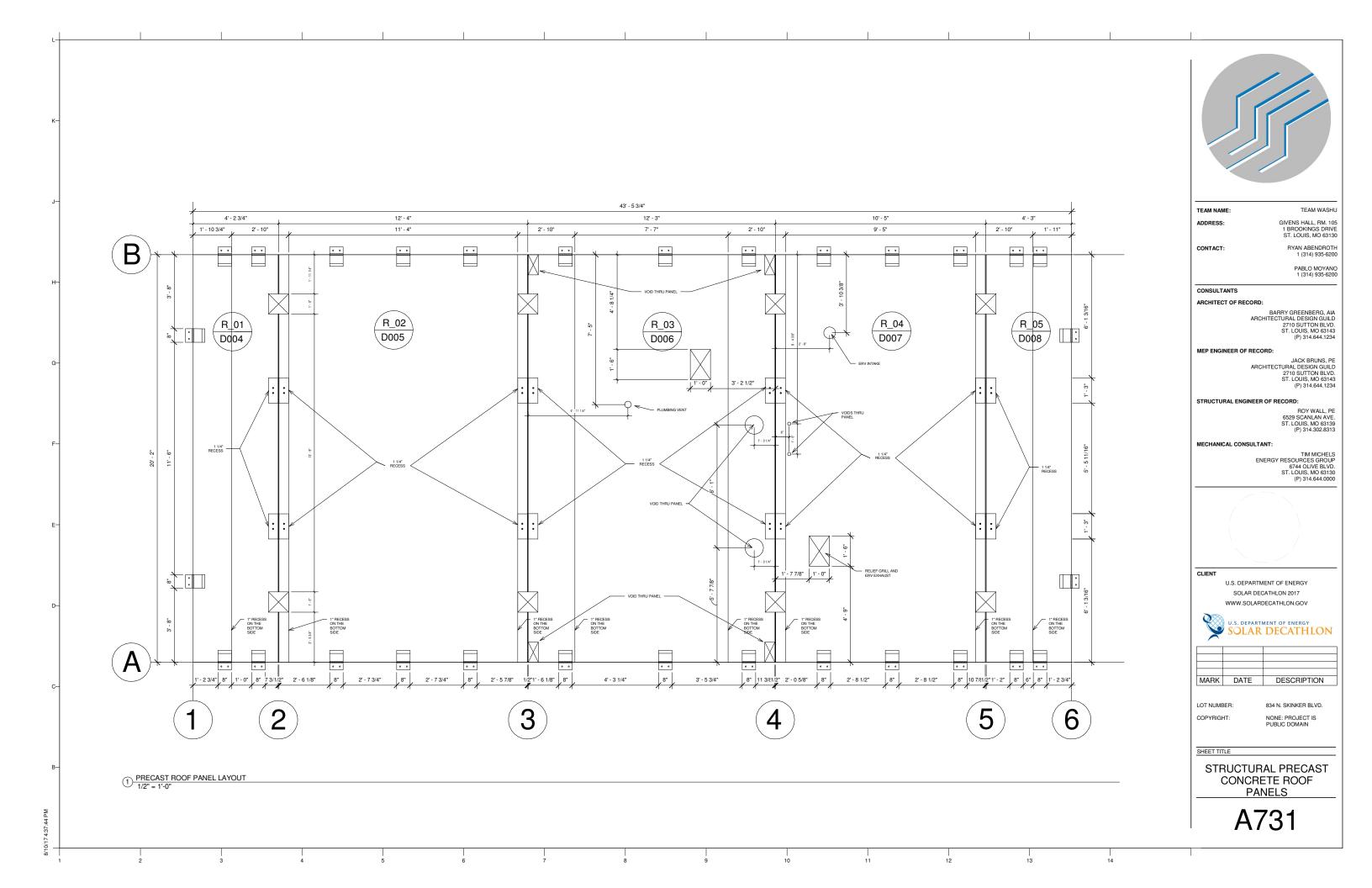
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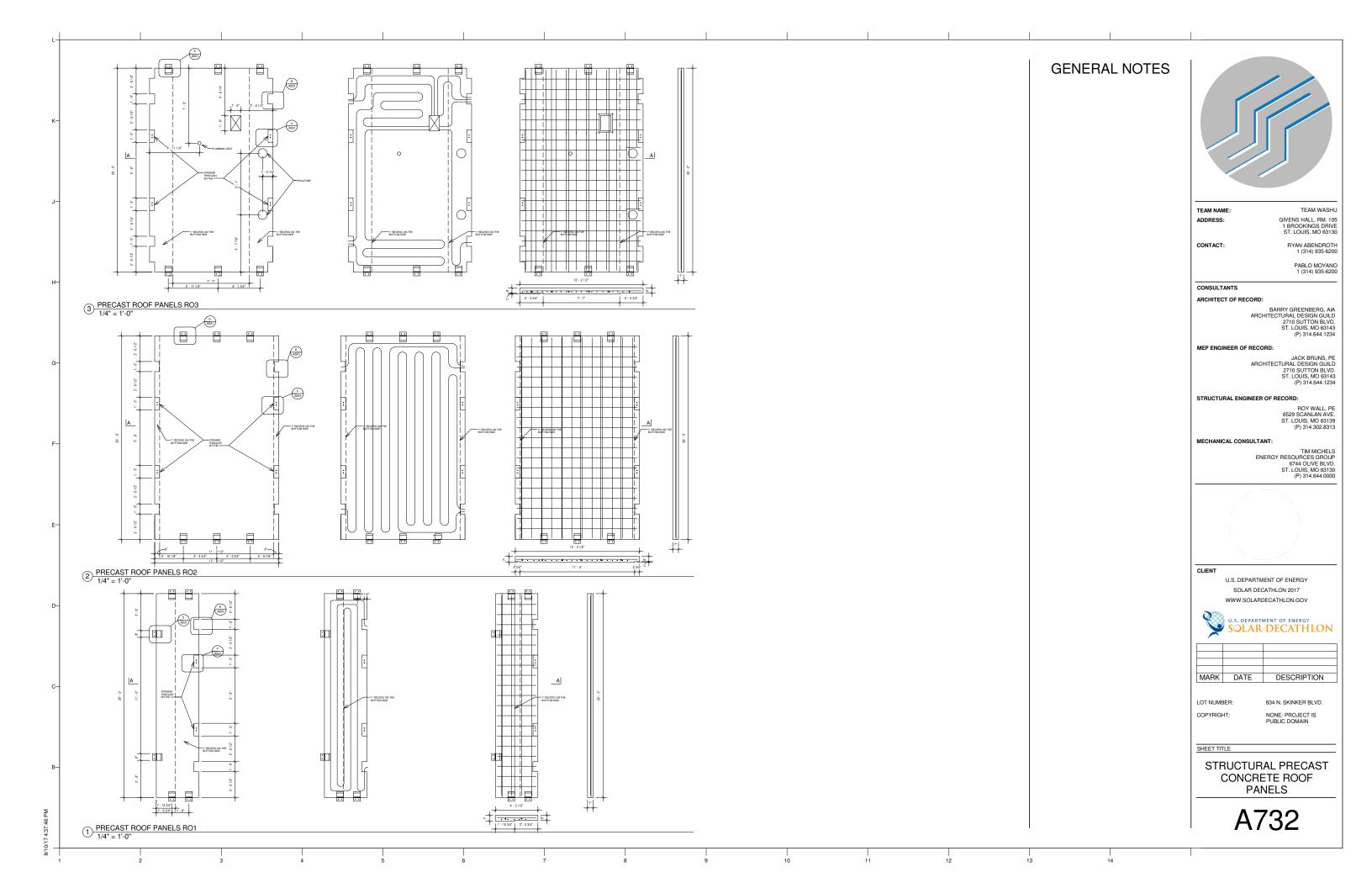
834 N. SKINKER BLVD.

STRUCTURAL PRECAST CONCRETE FLOOR PANELS

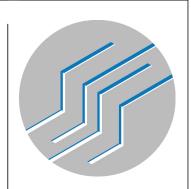








GENERAL NOTES PRECAST ROOF PANELS RO5 1/4" = 1'-0" 1/4" = 1'-0"



TEAM WASHU GIVENS HALL, RM. 105 1 BROOKINGS DRIVE ST. LOUIS, MO 63130 ADDRESS:

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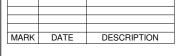
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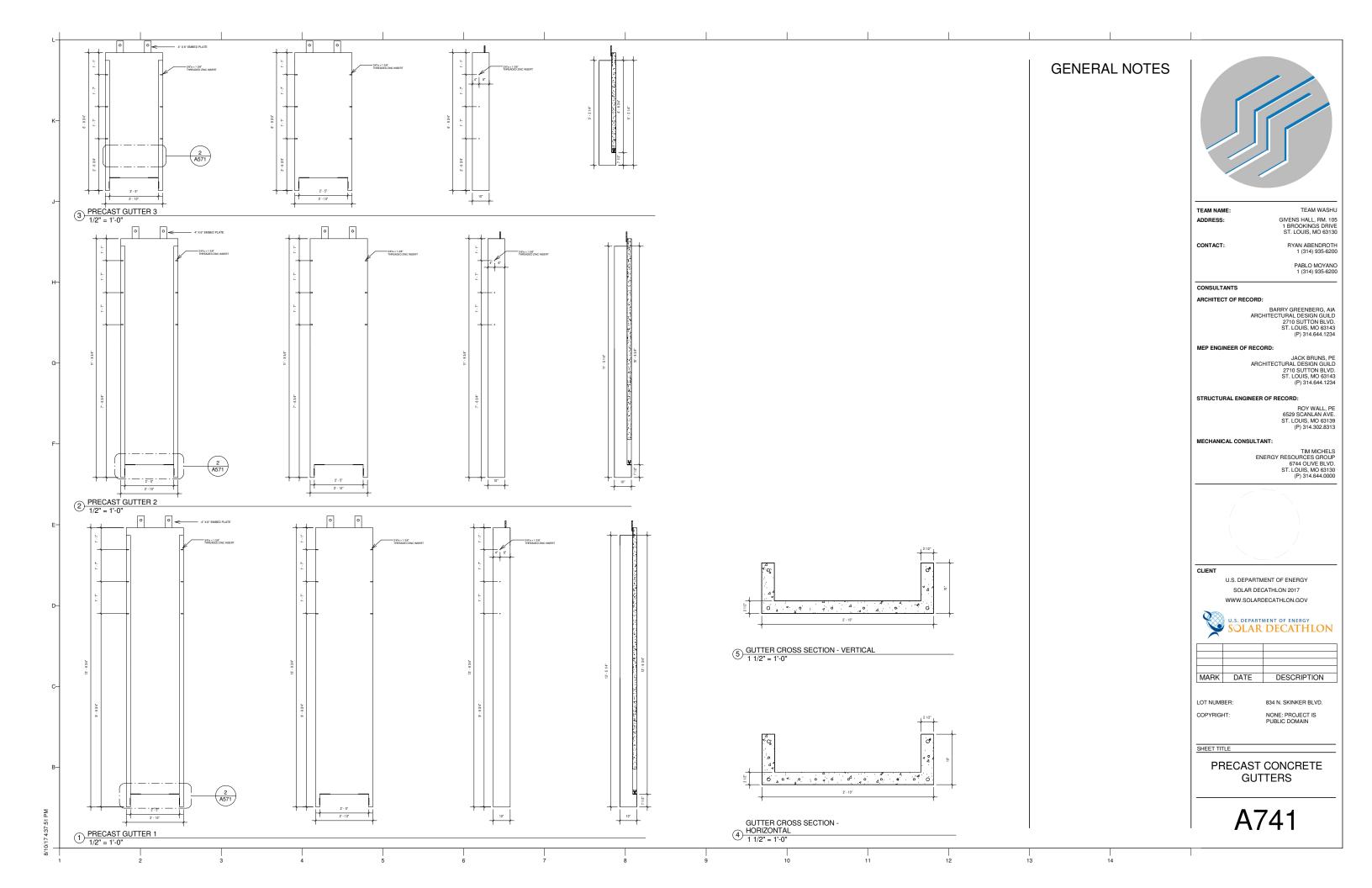
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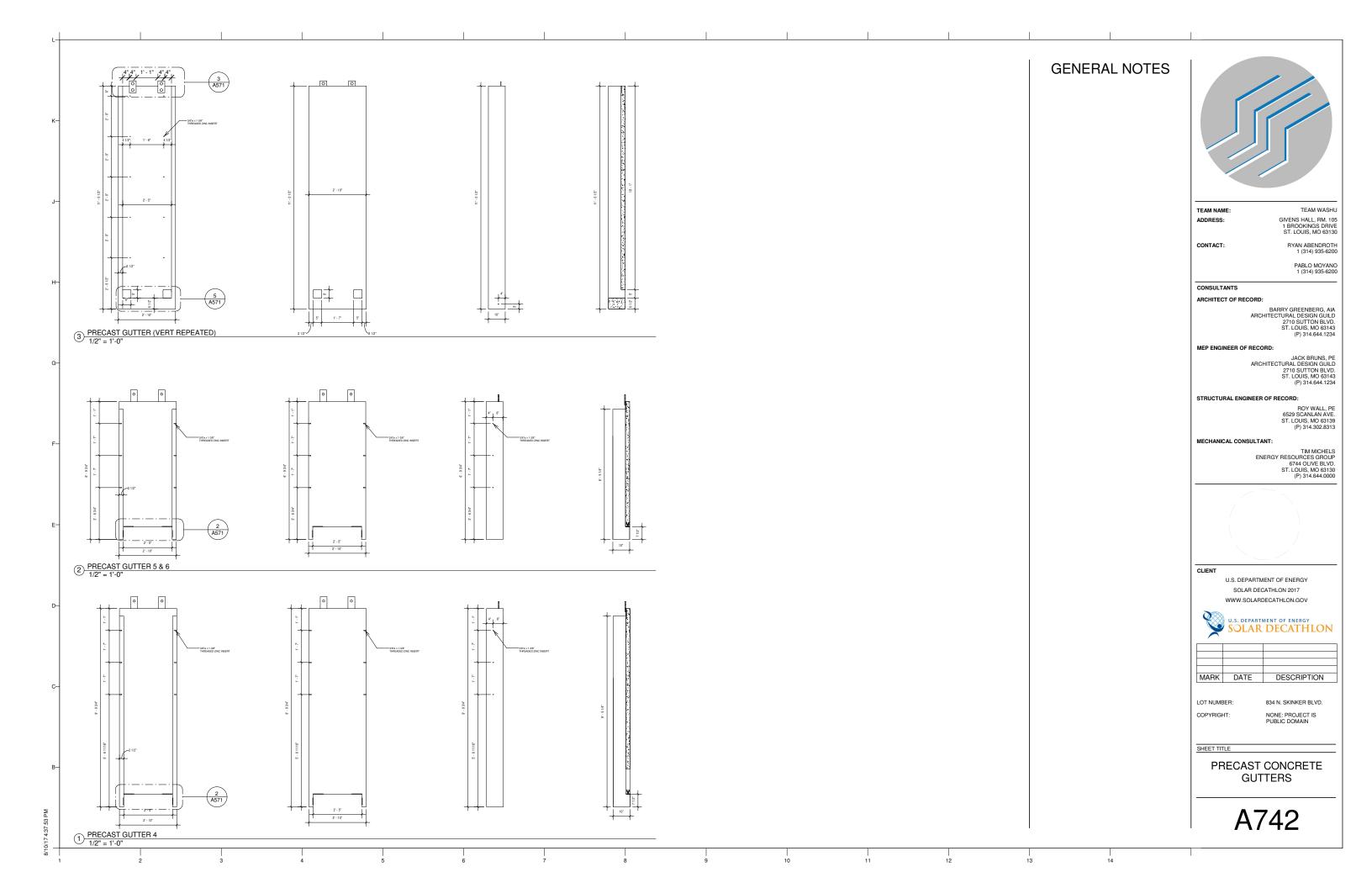
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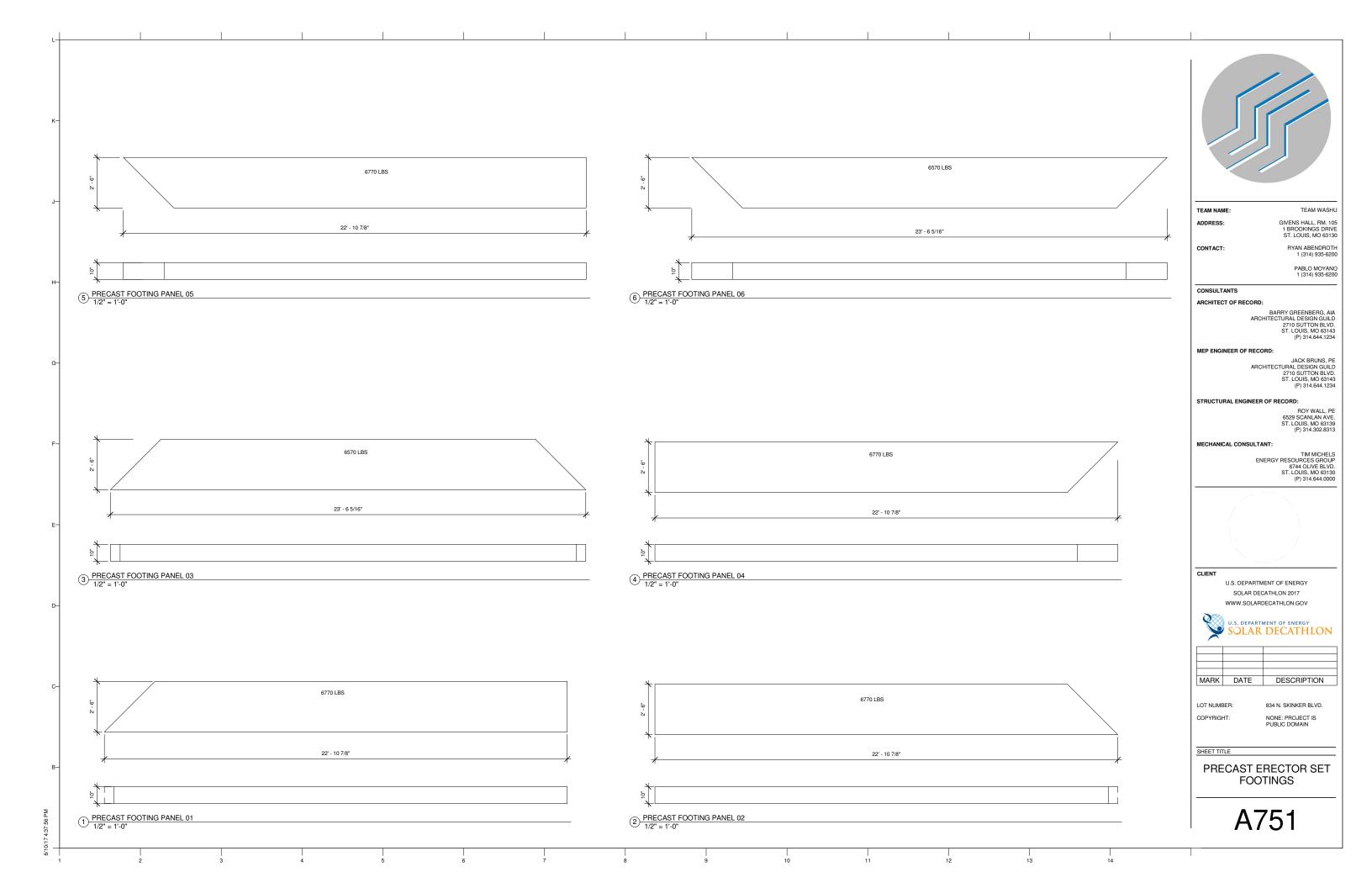
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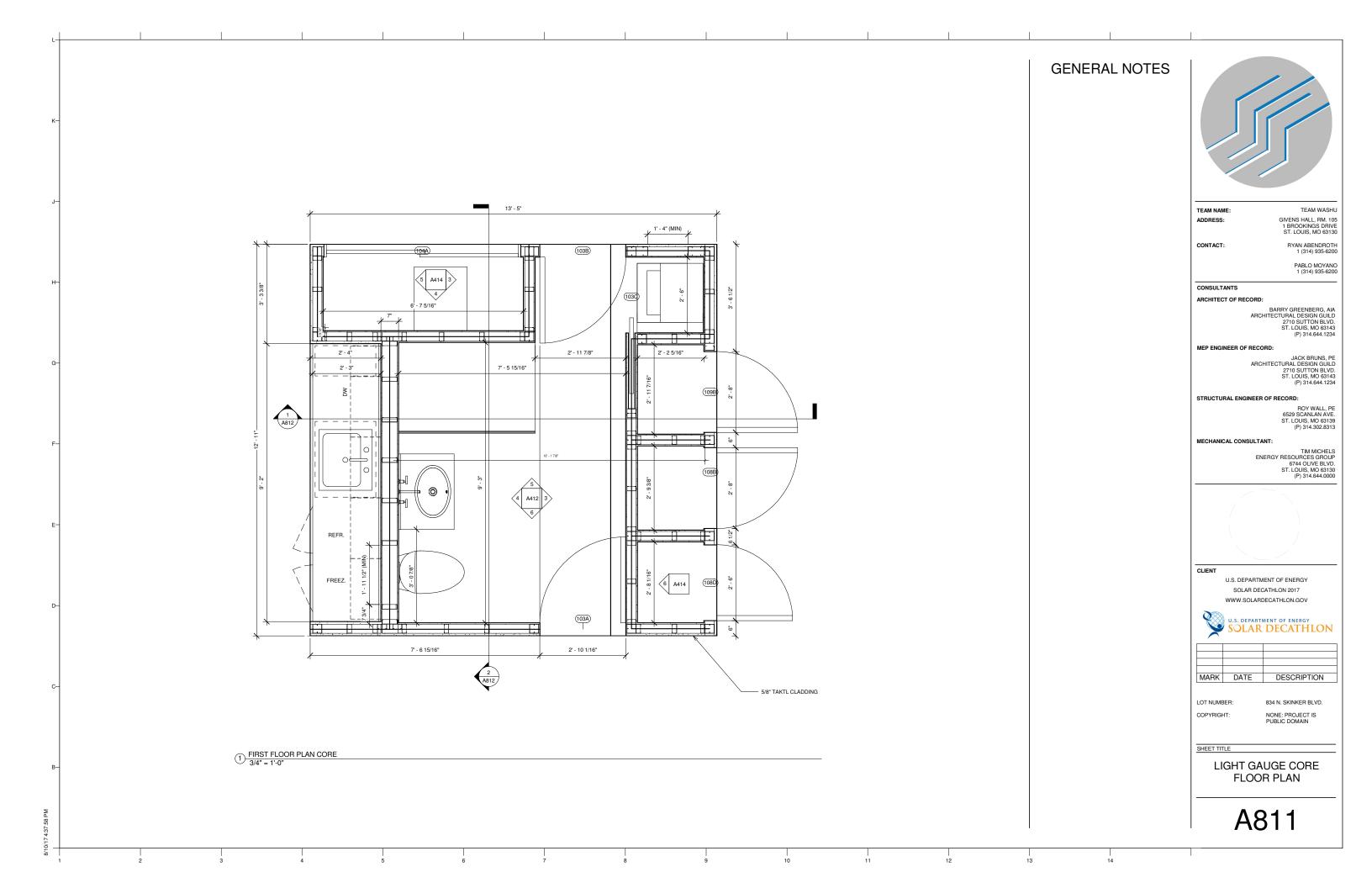
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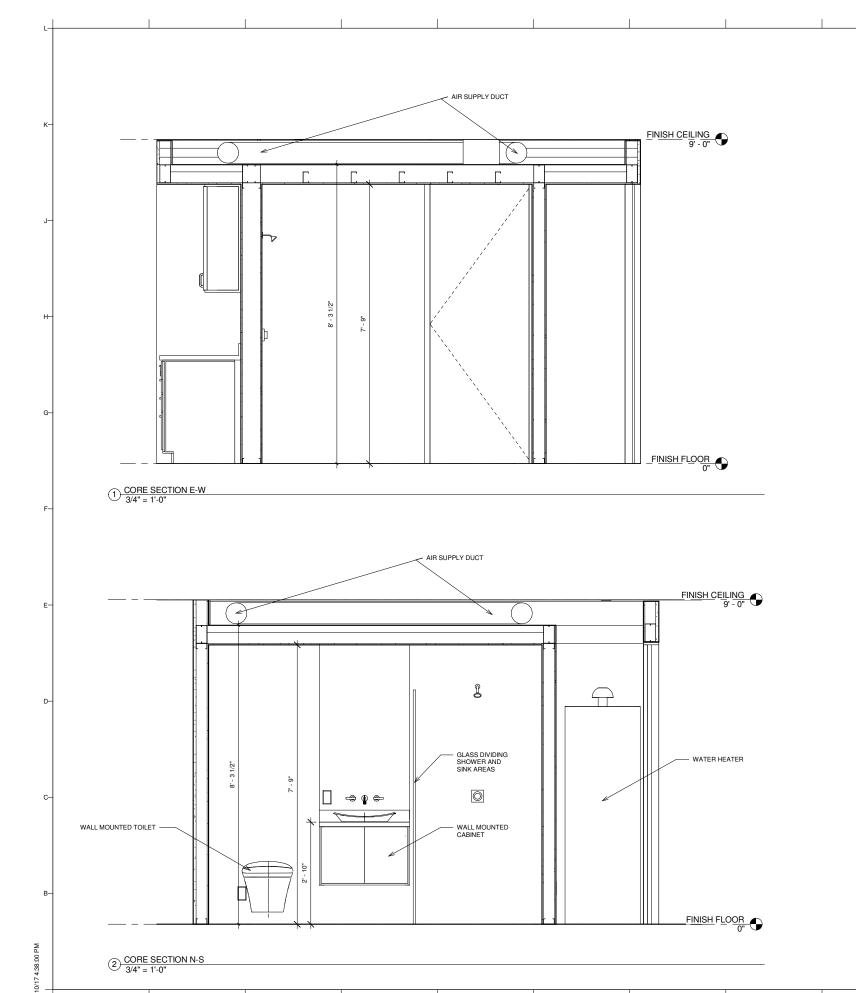
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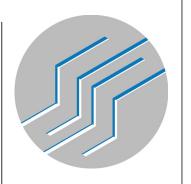












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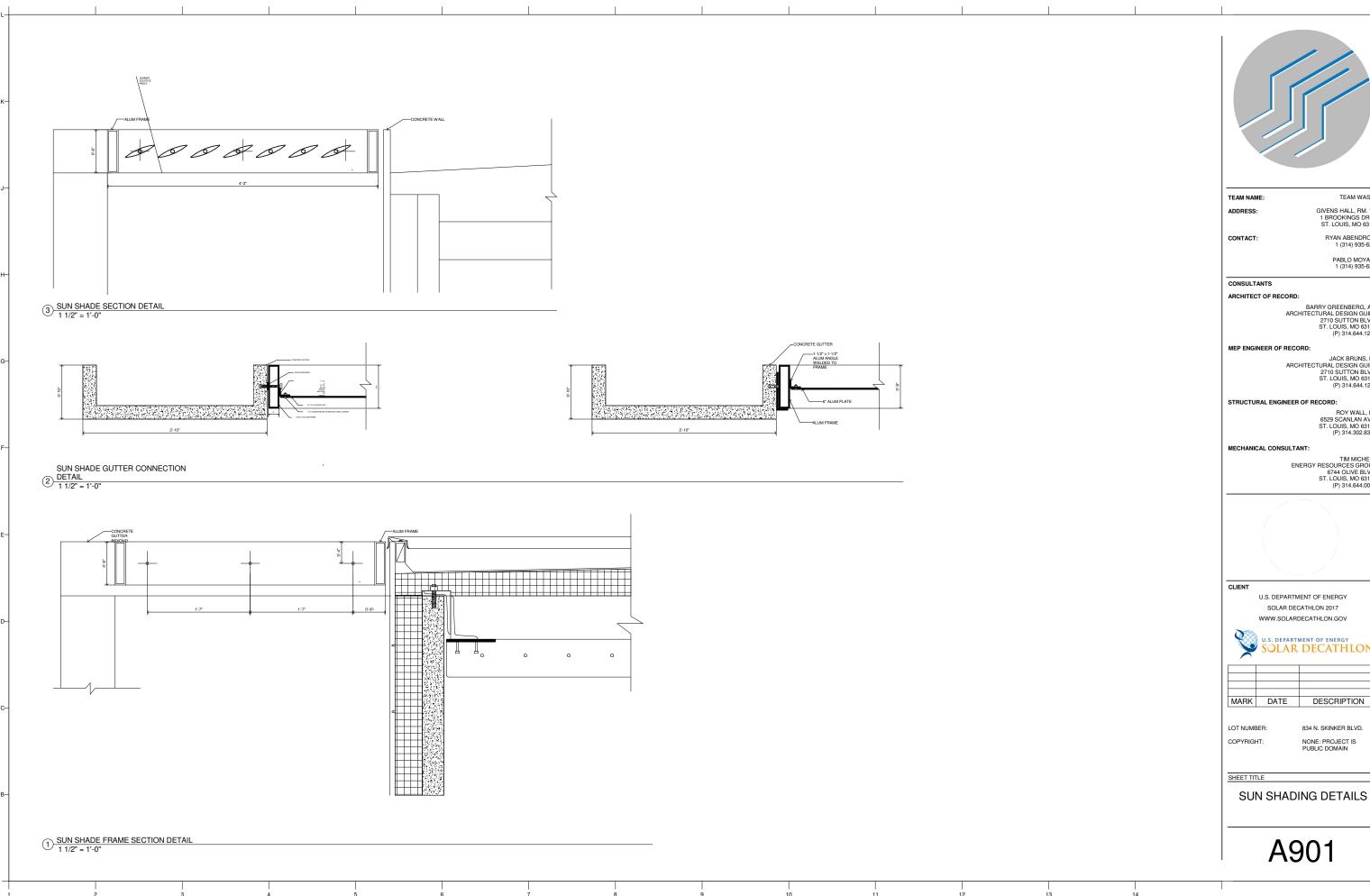
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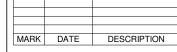
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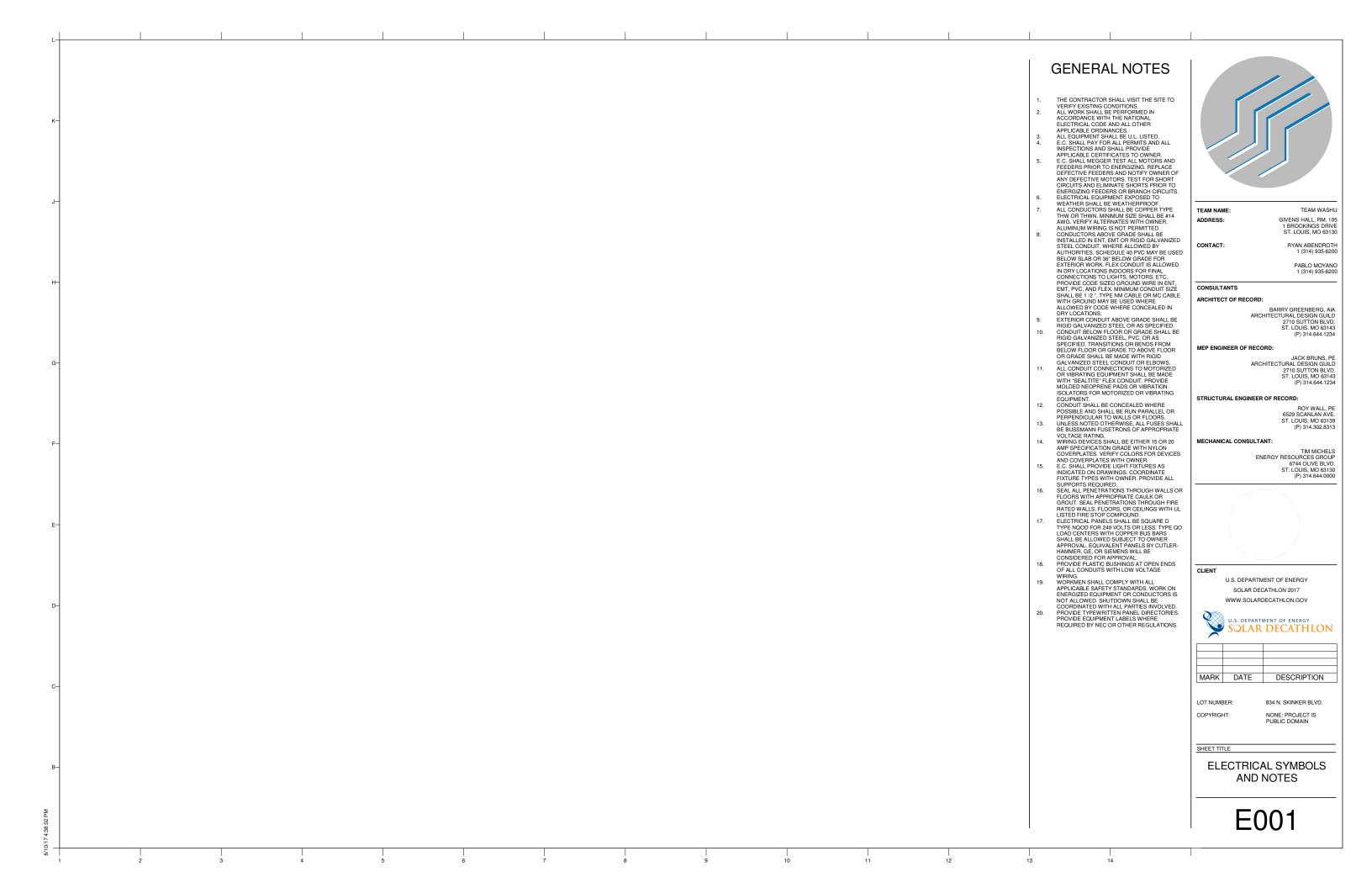
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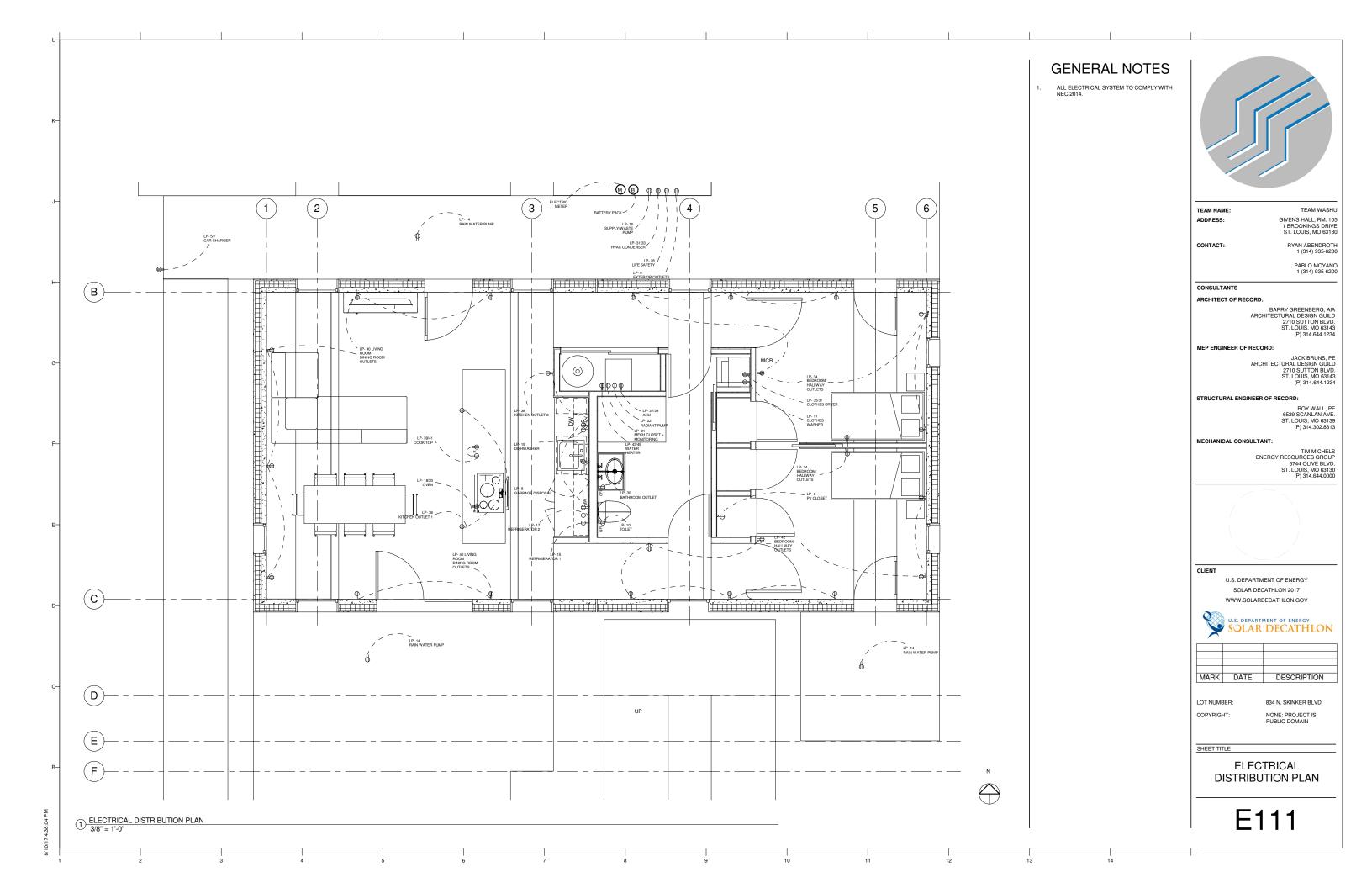


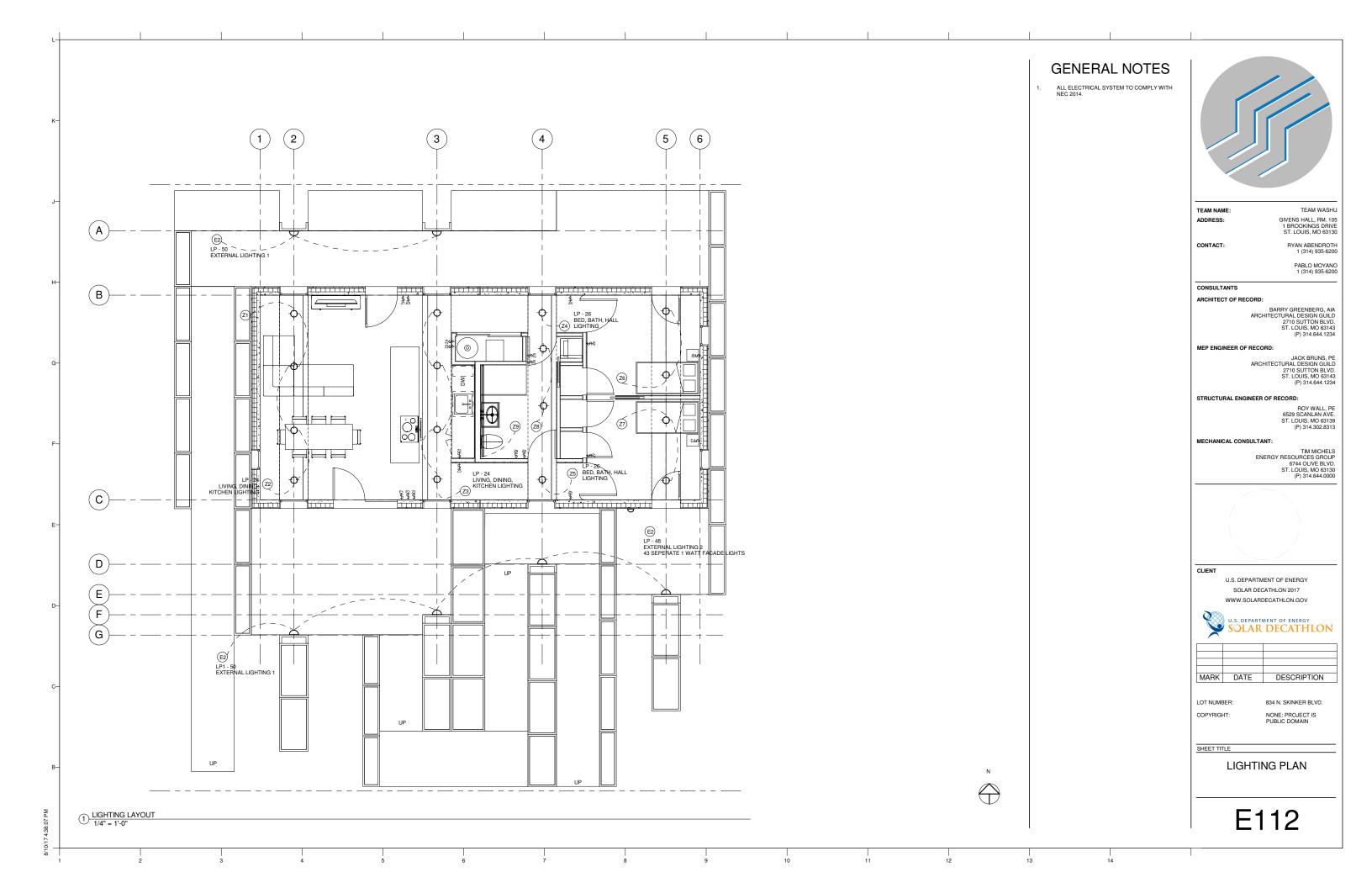
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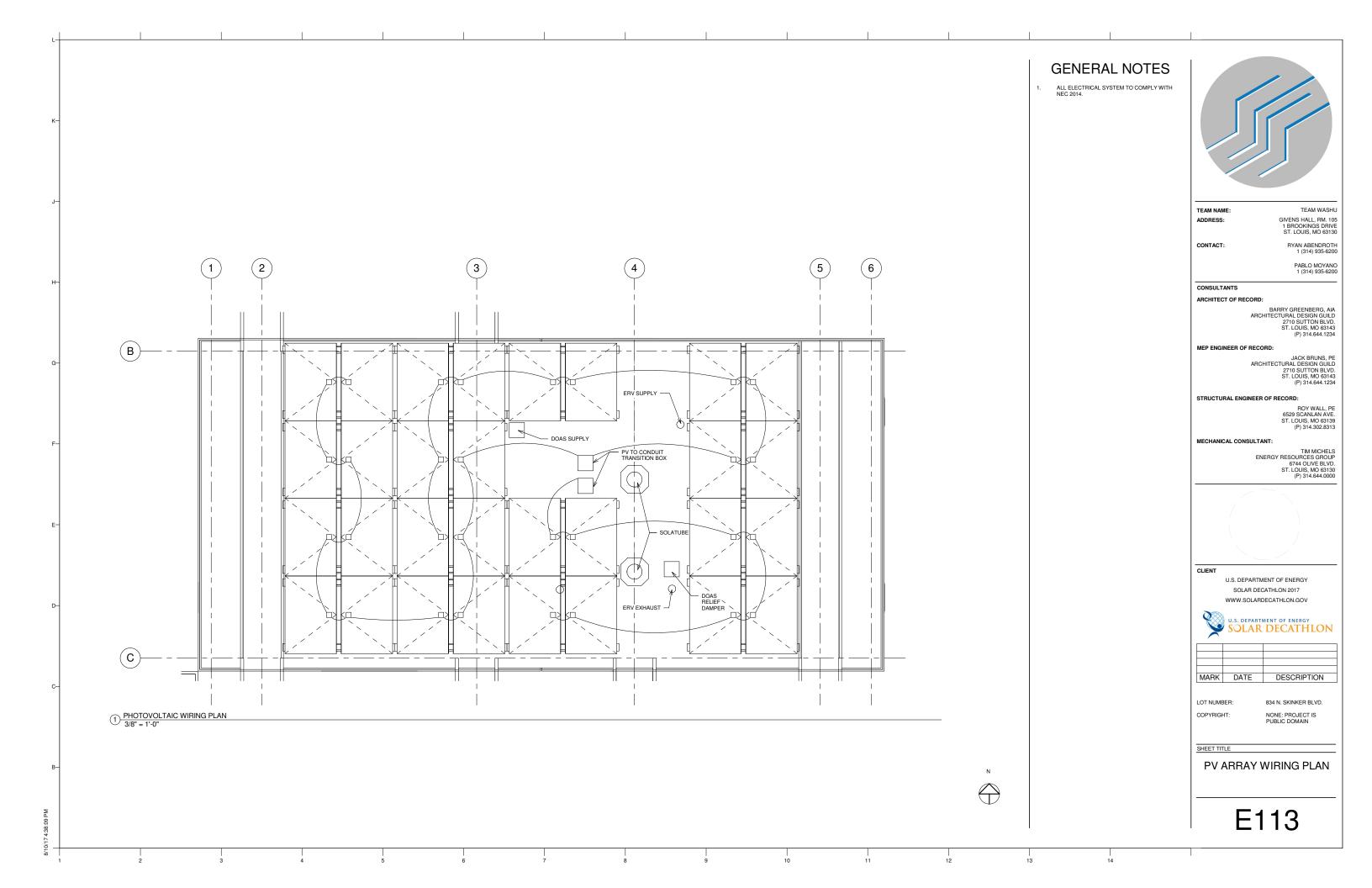


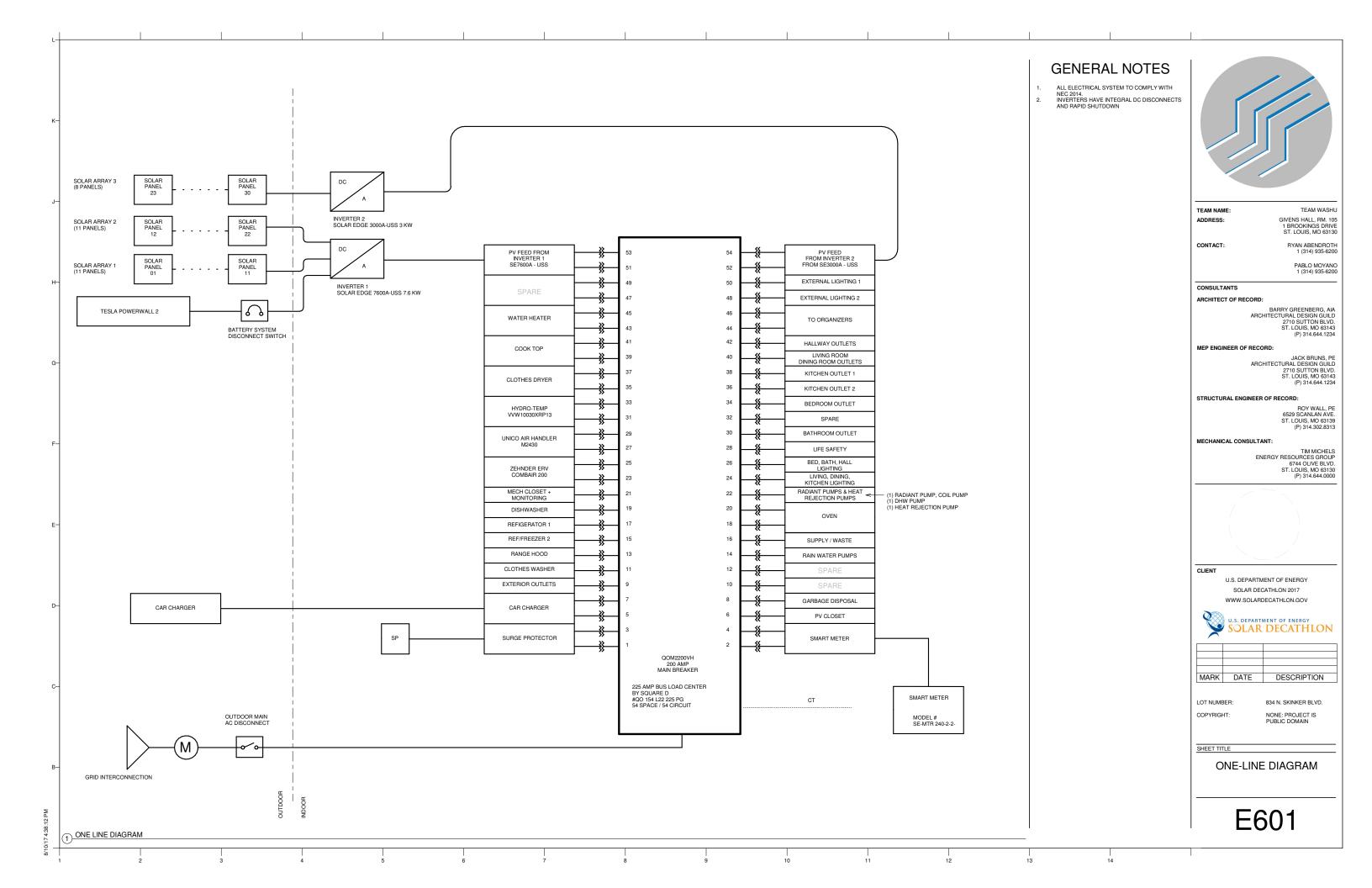


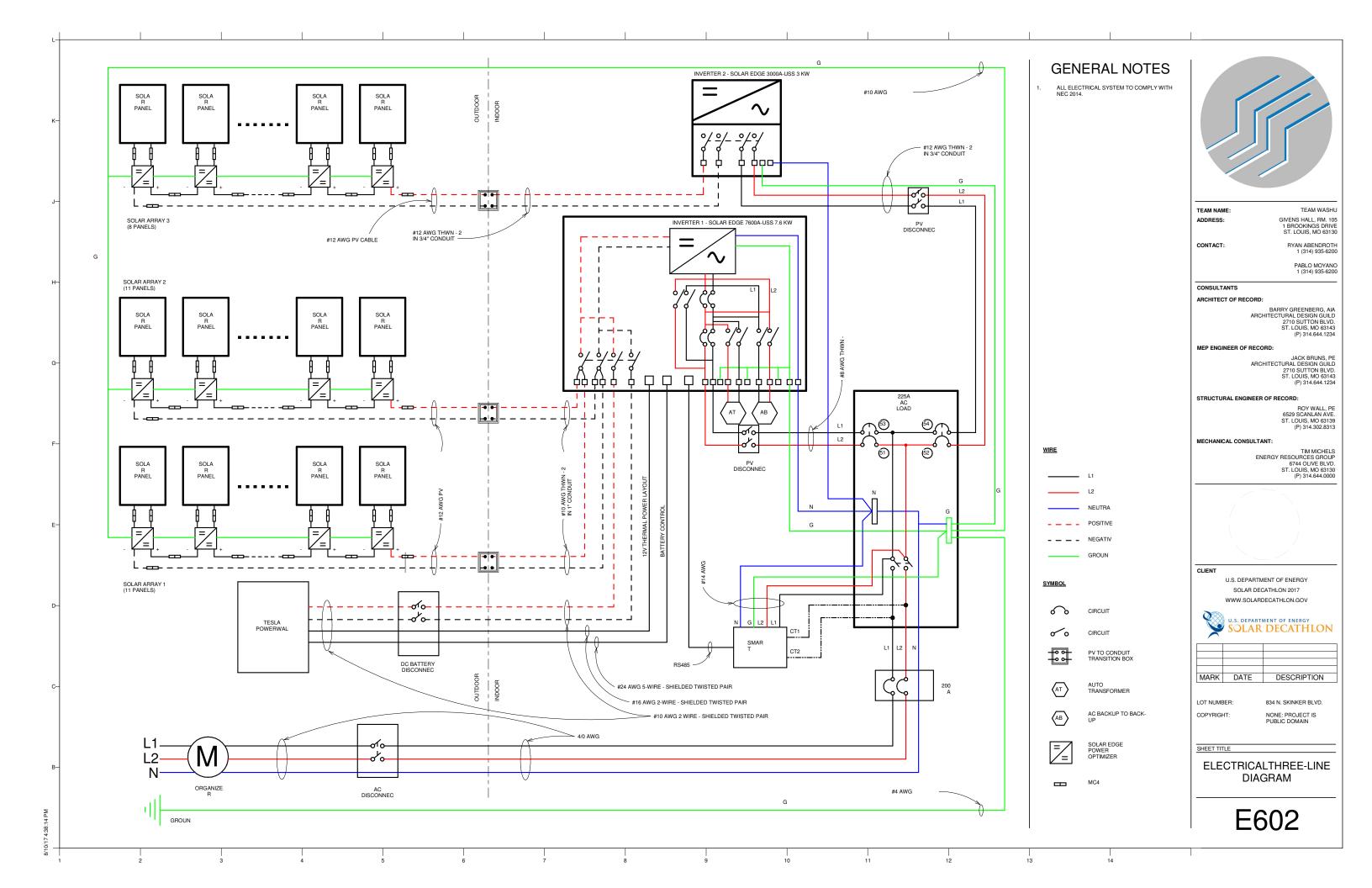


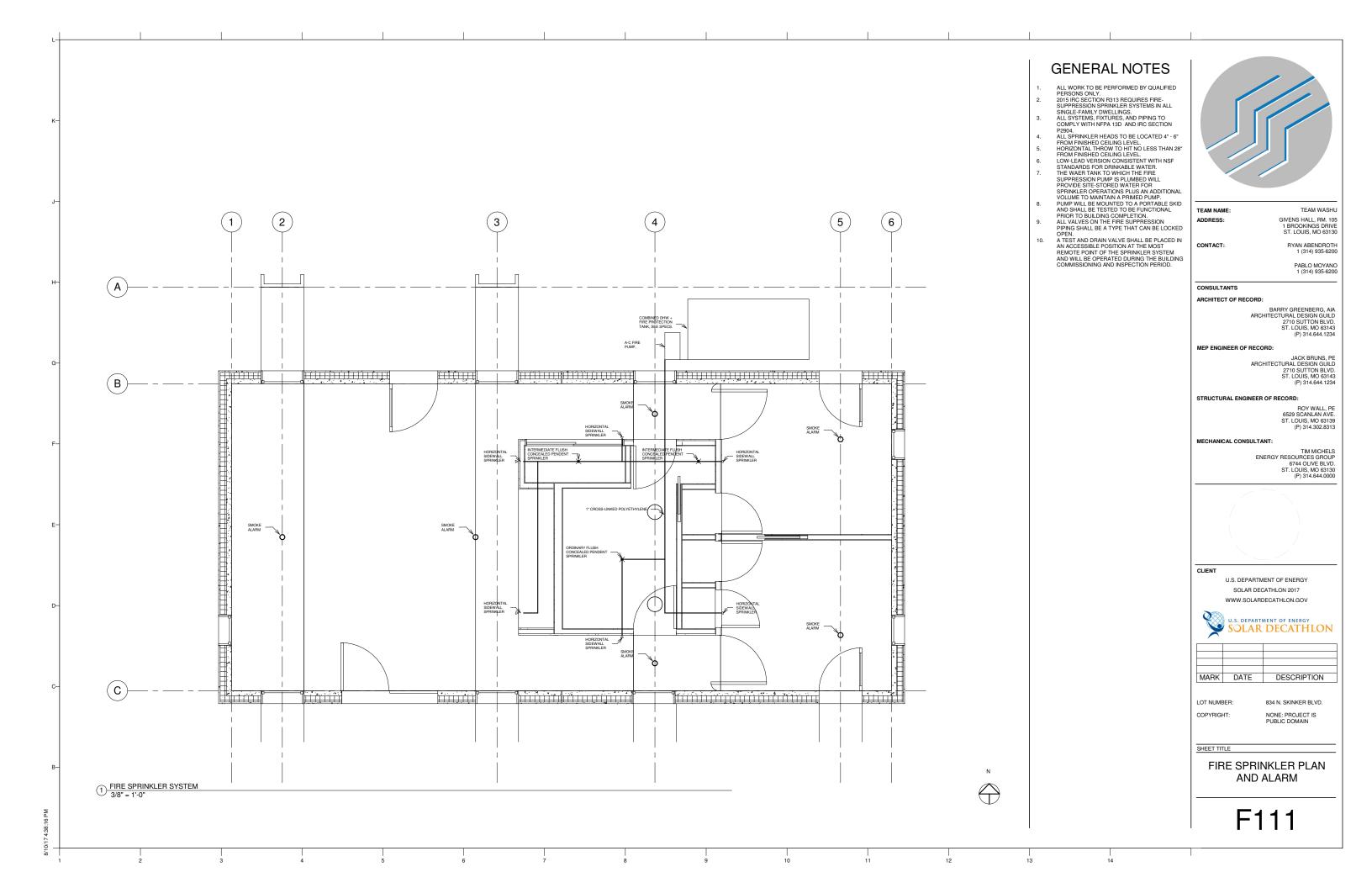


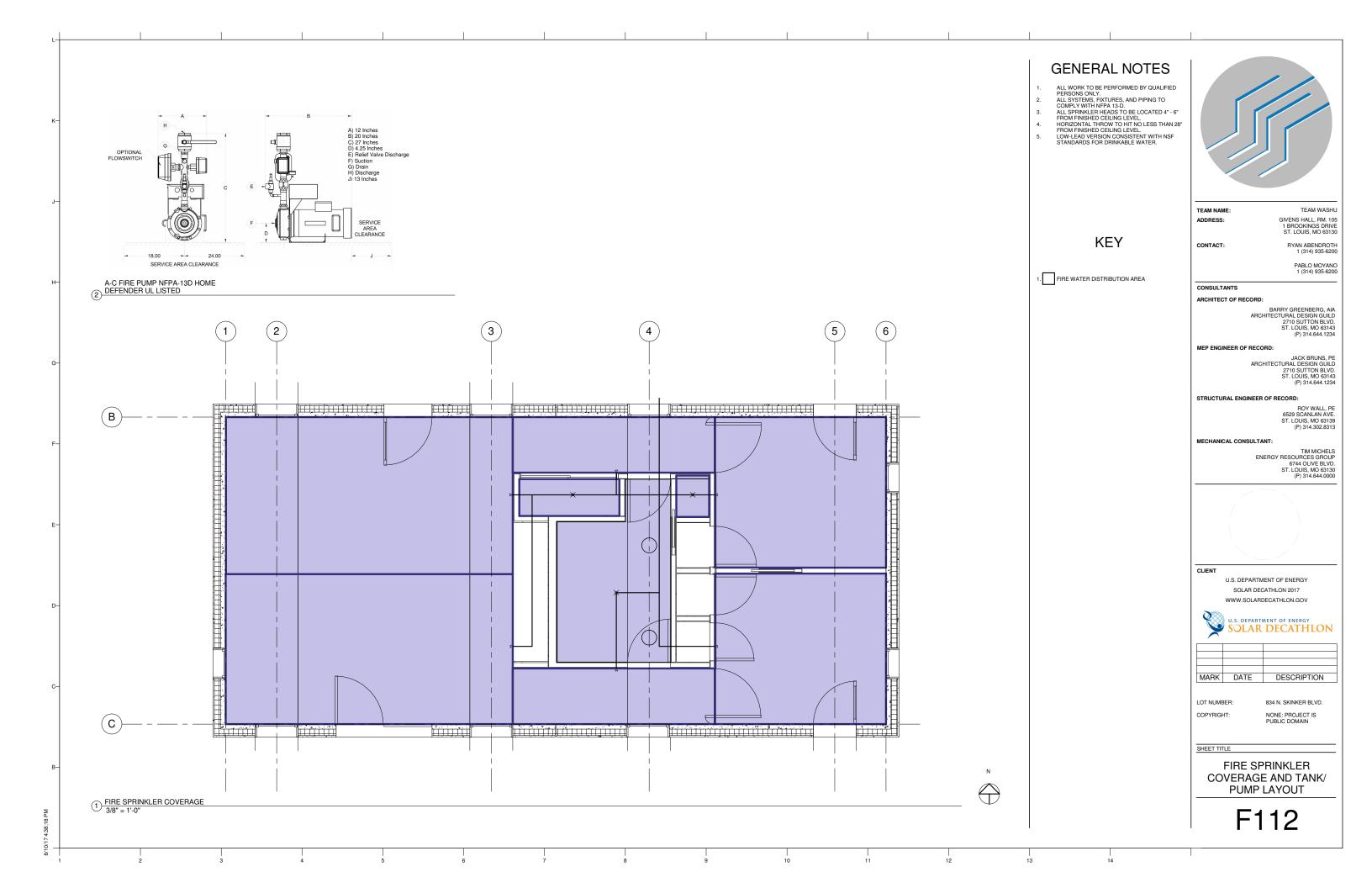


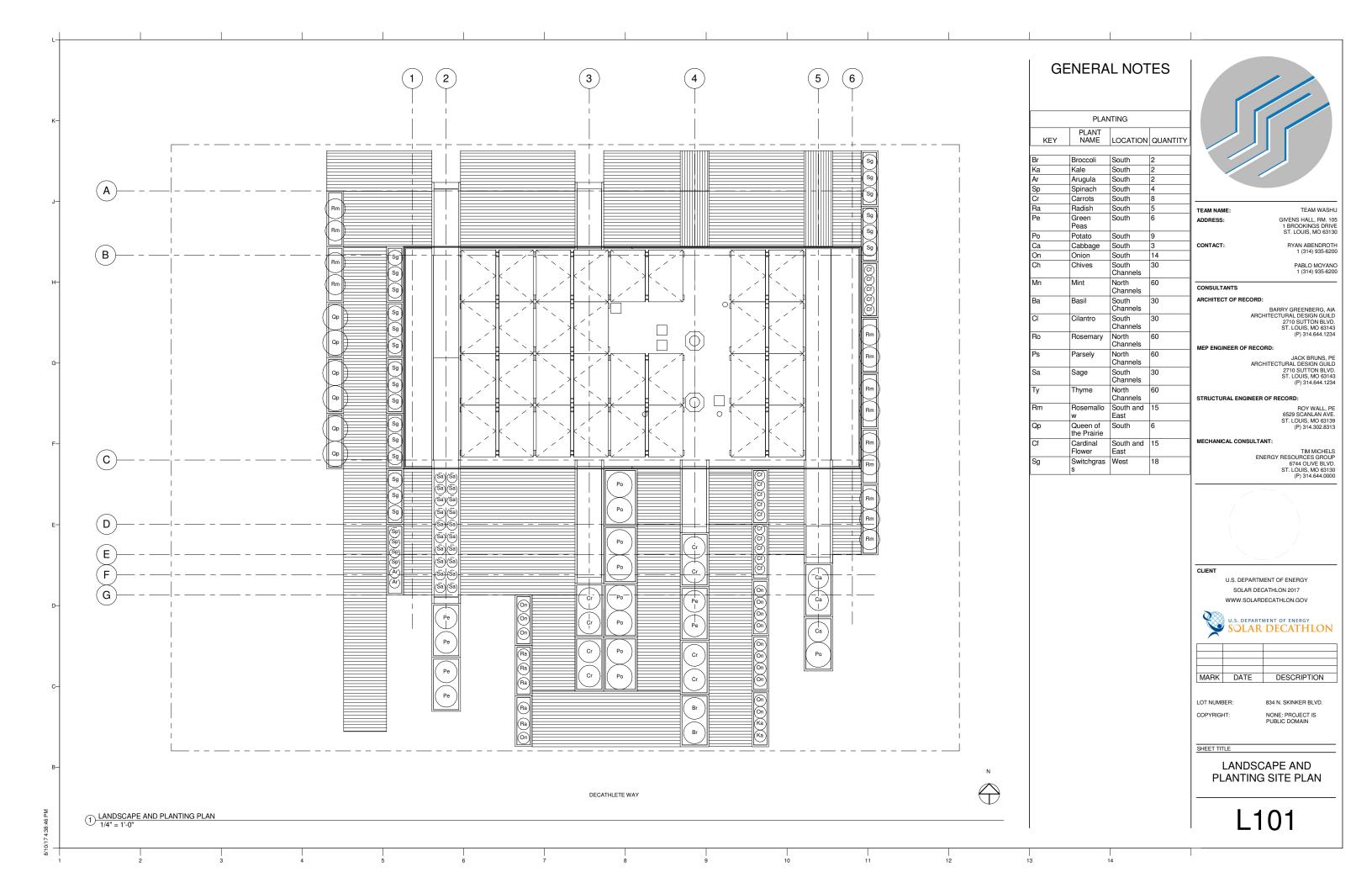


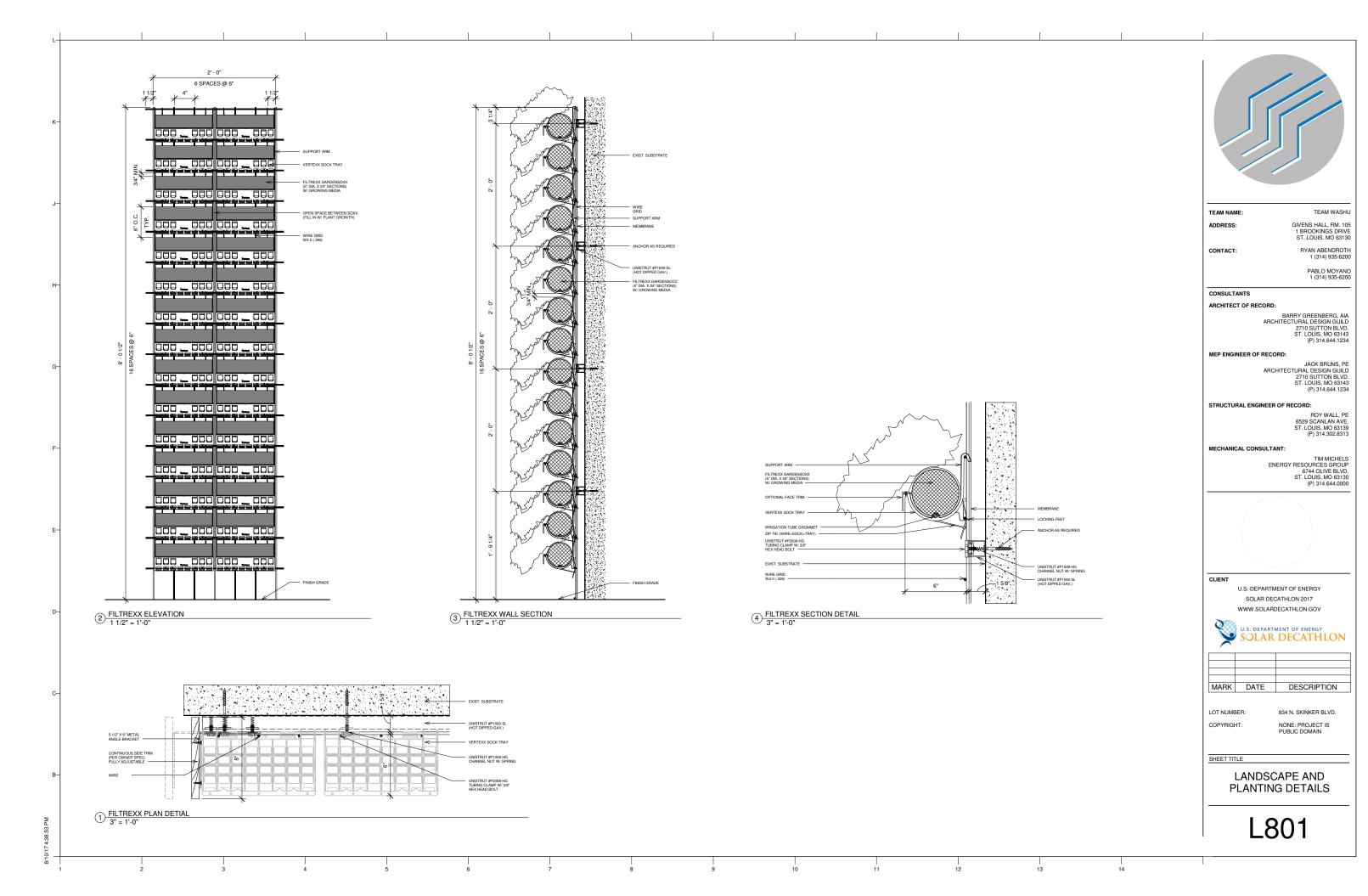


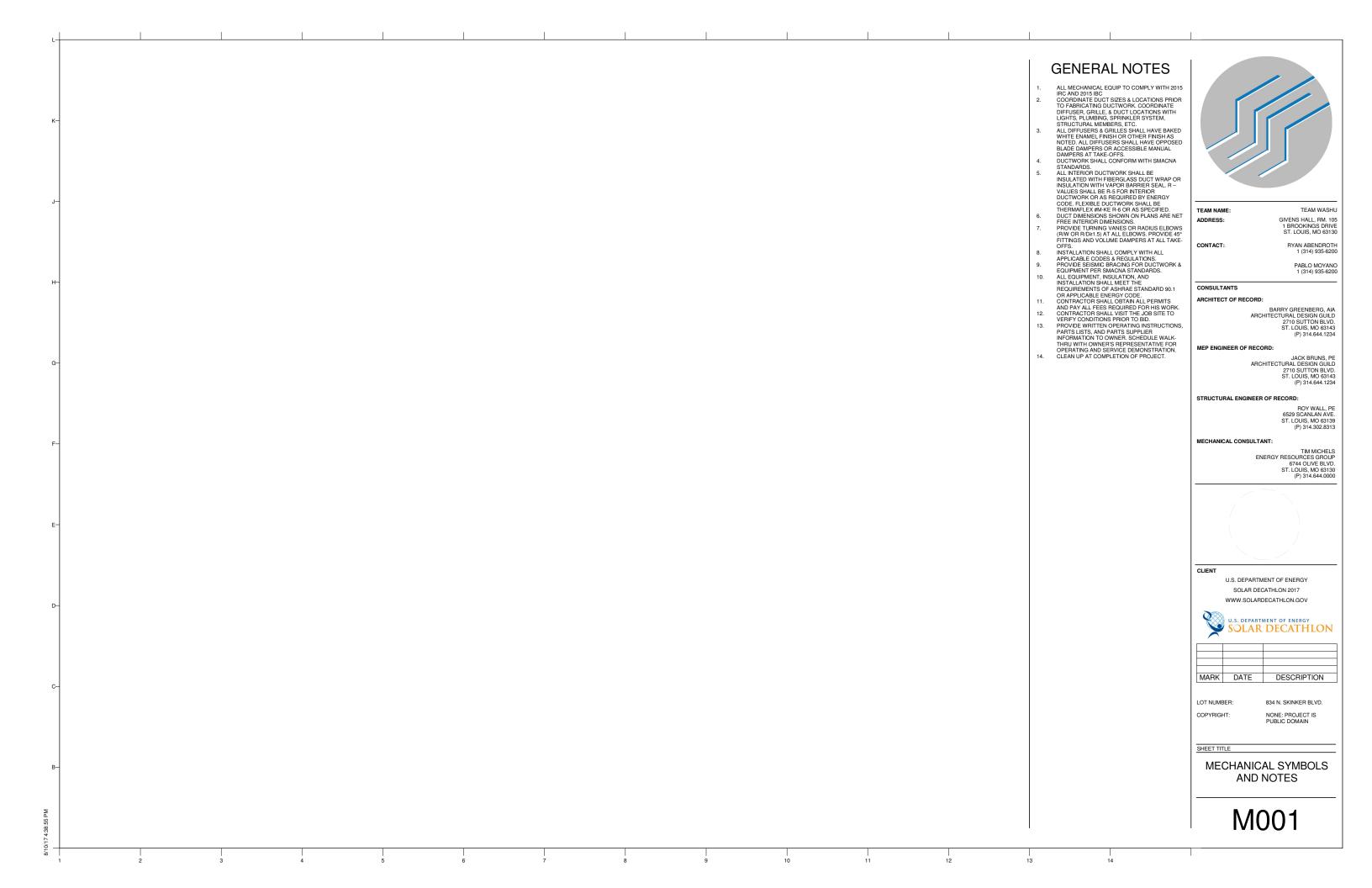


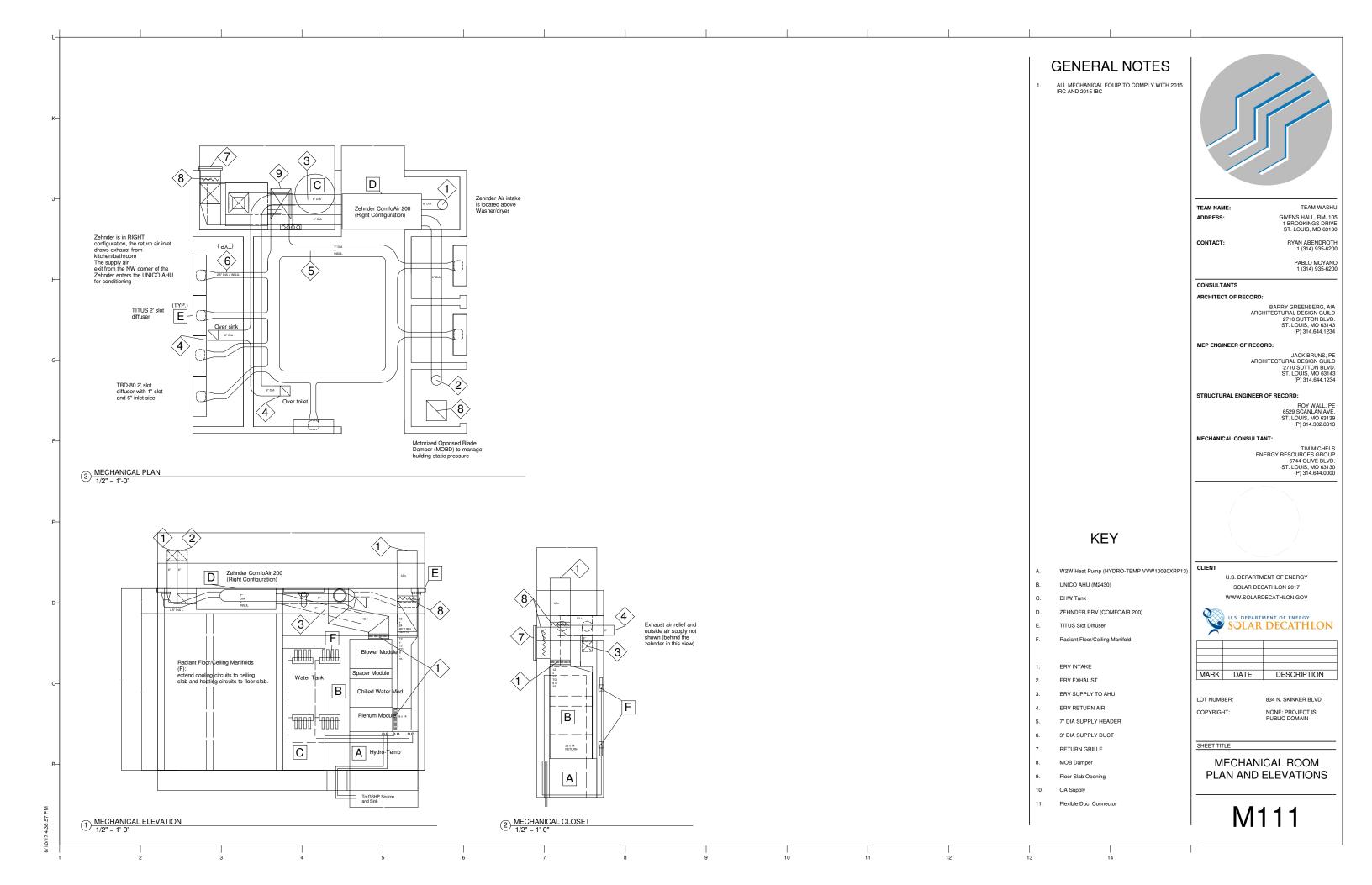


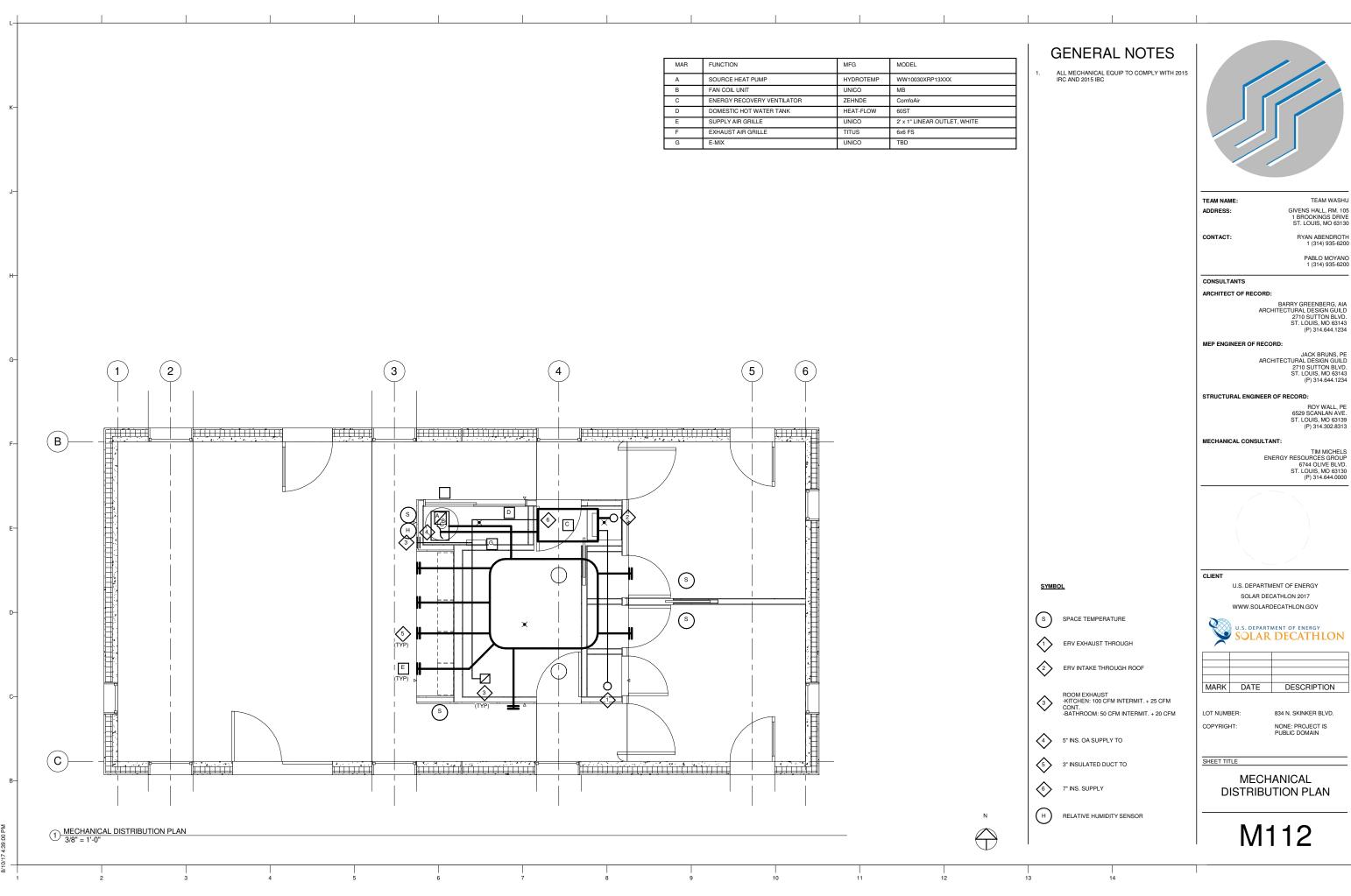










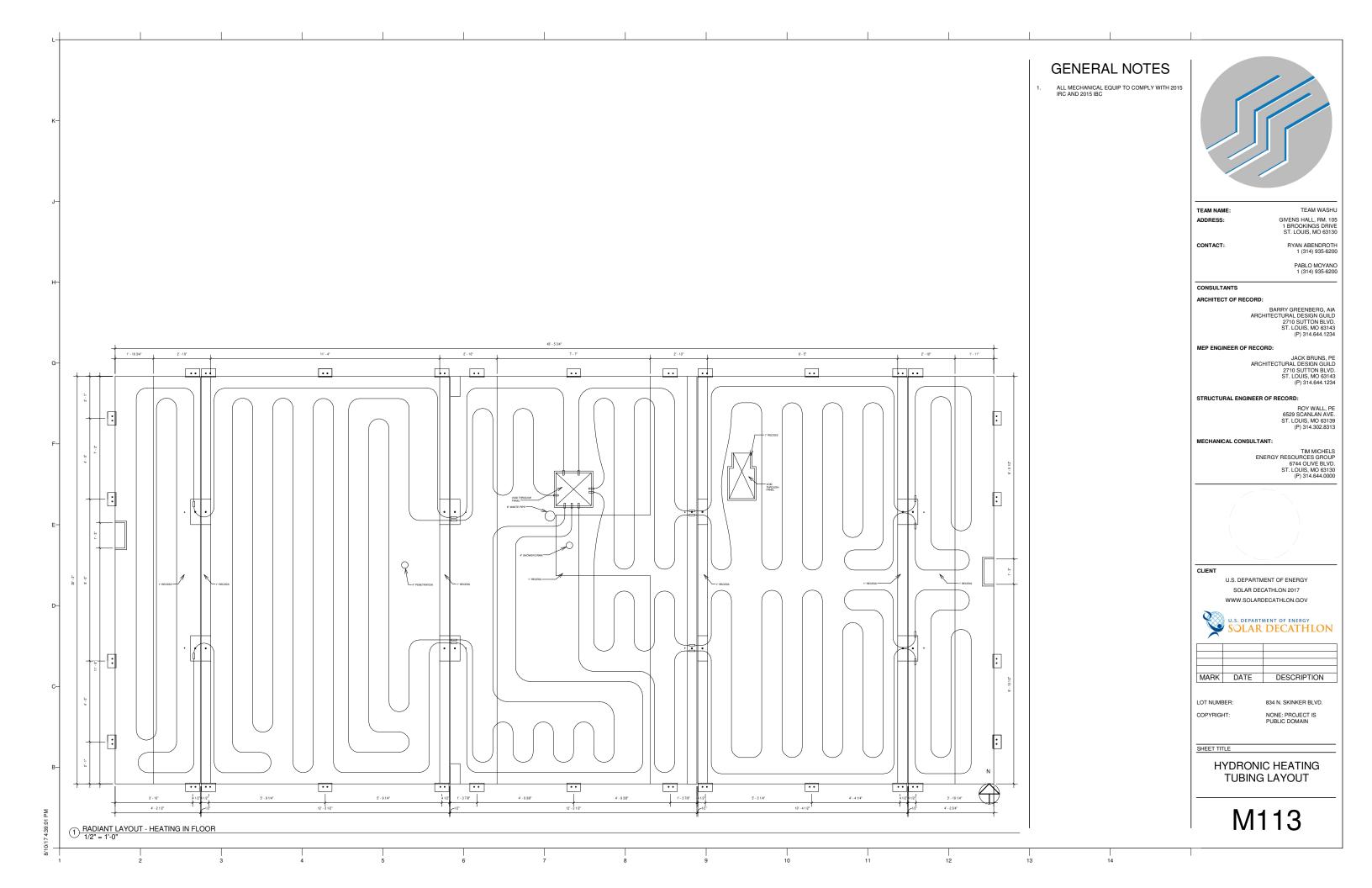


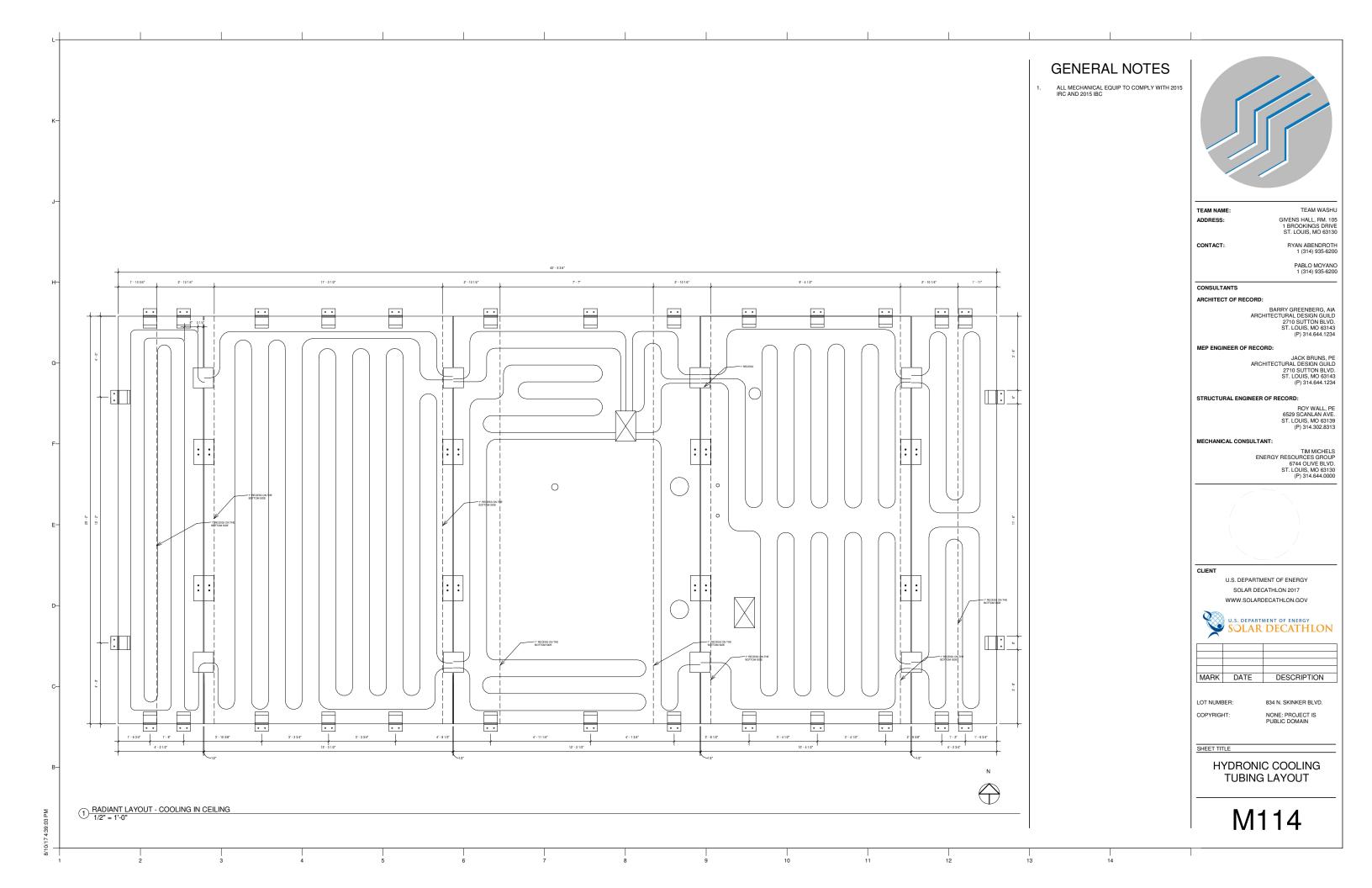


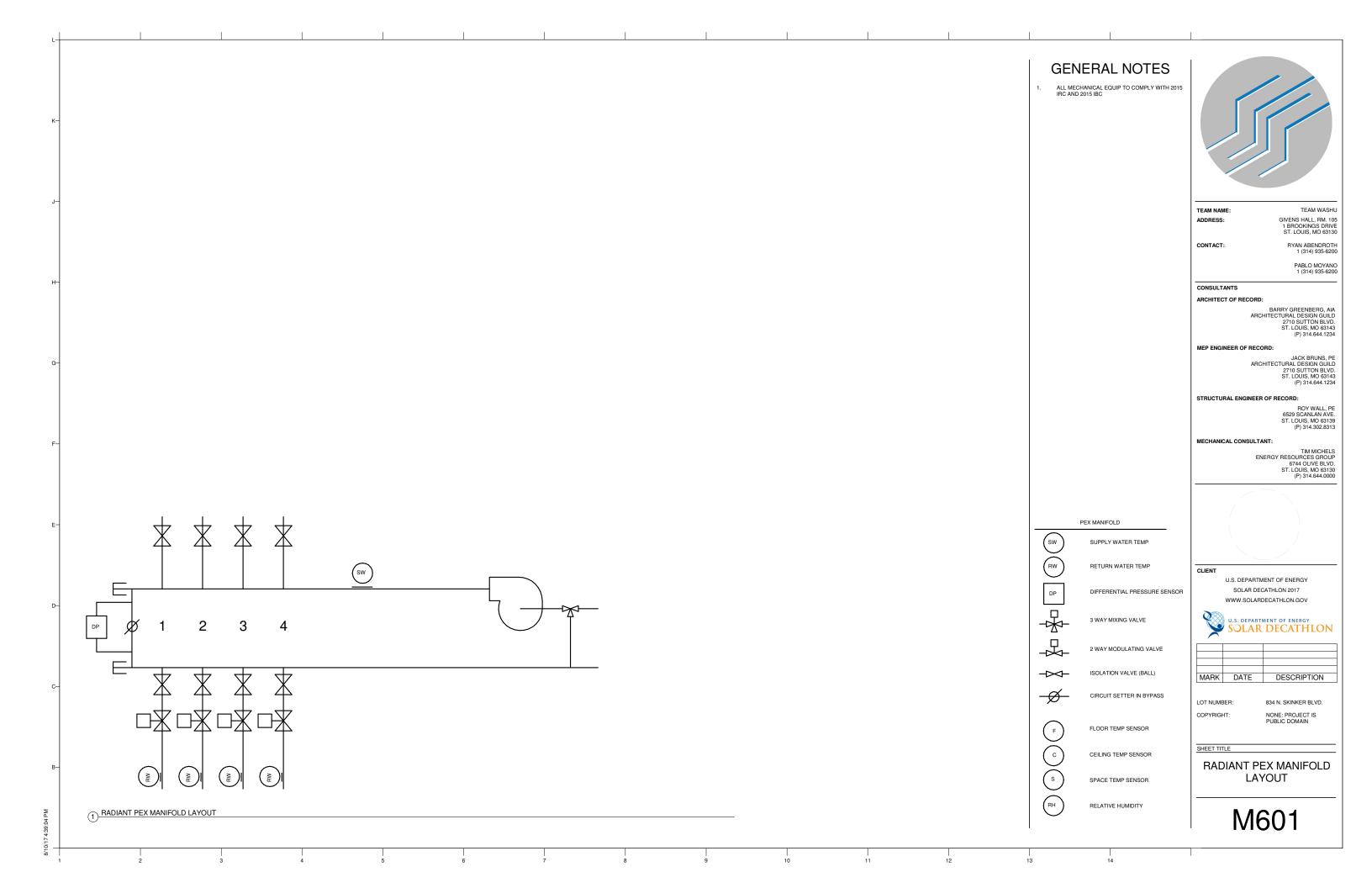
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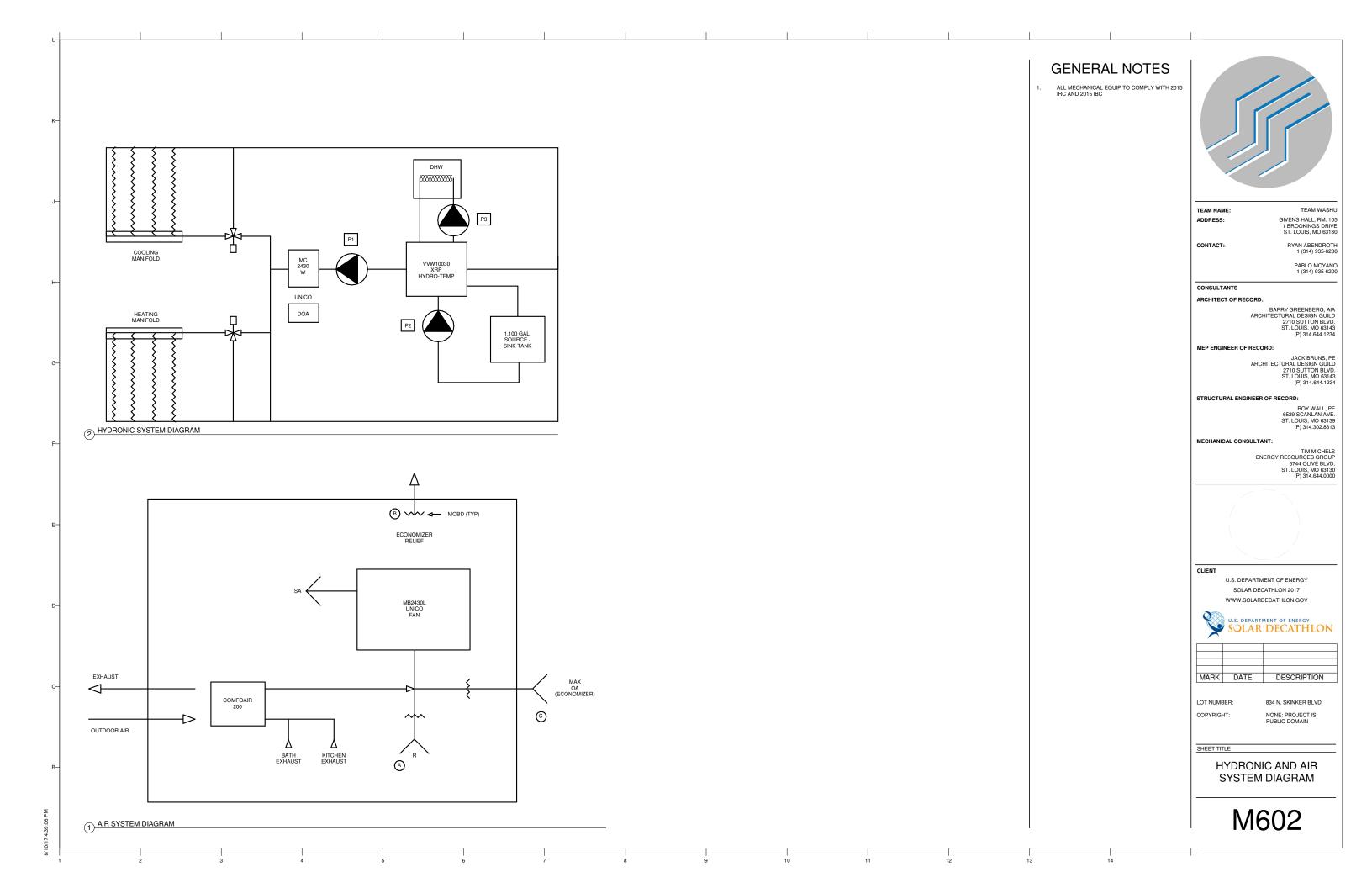
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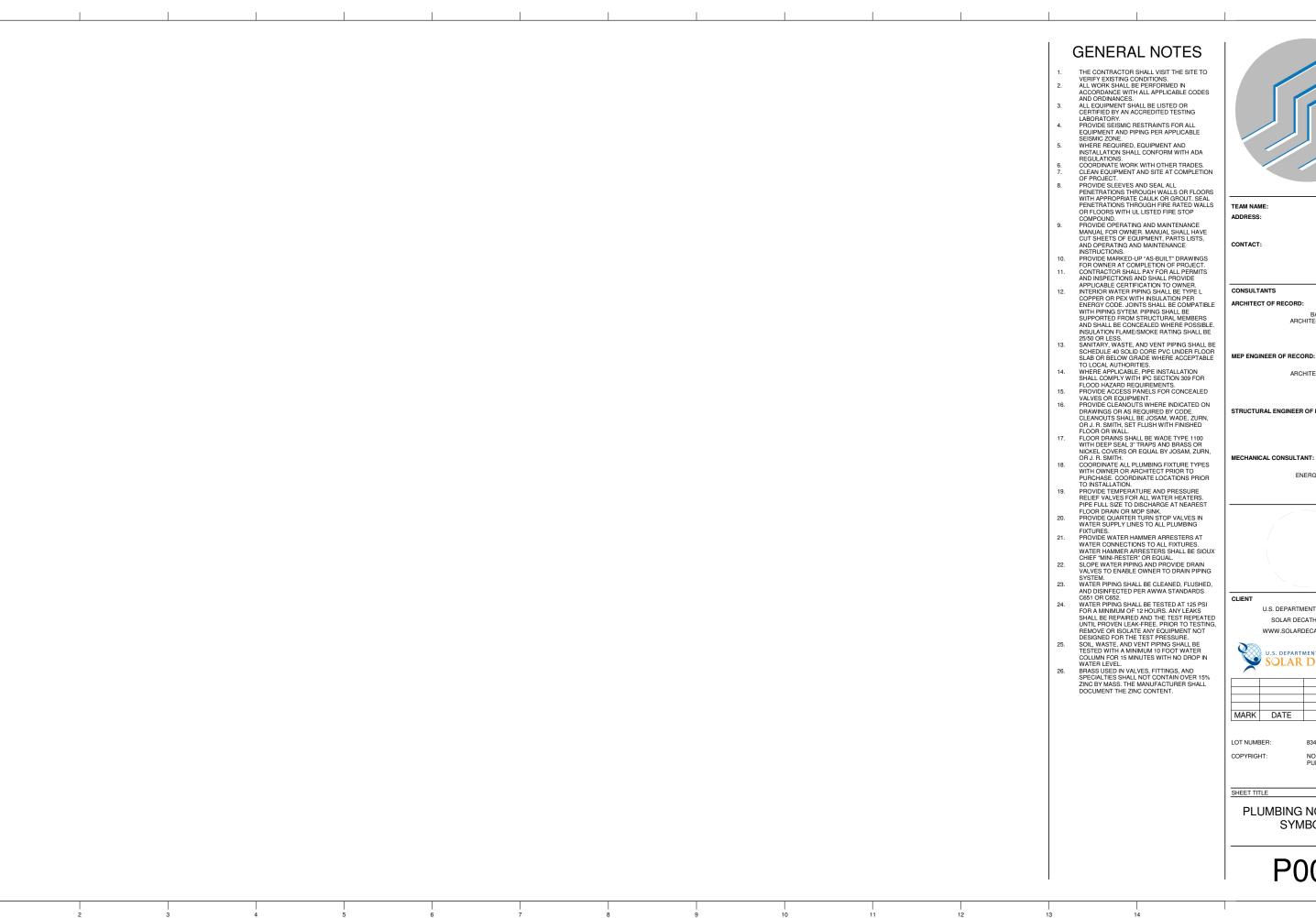
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PLUMBING NOTES AND SYMBOLS

P001

