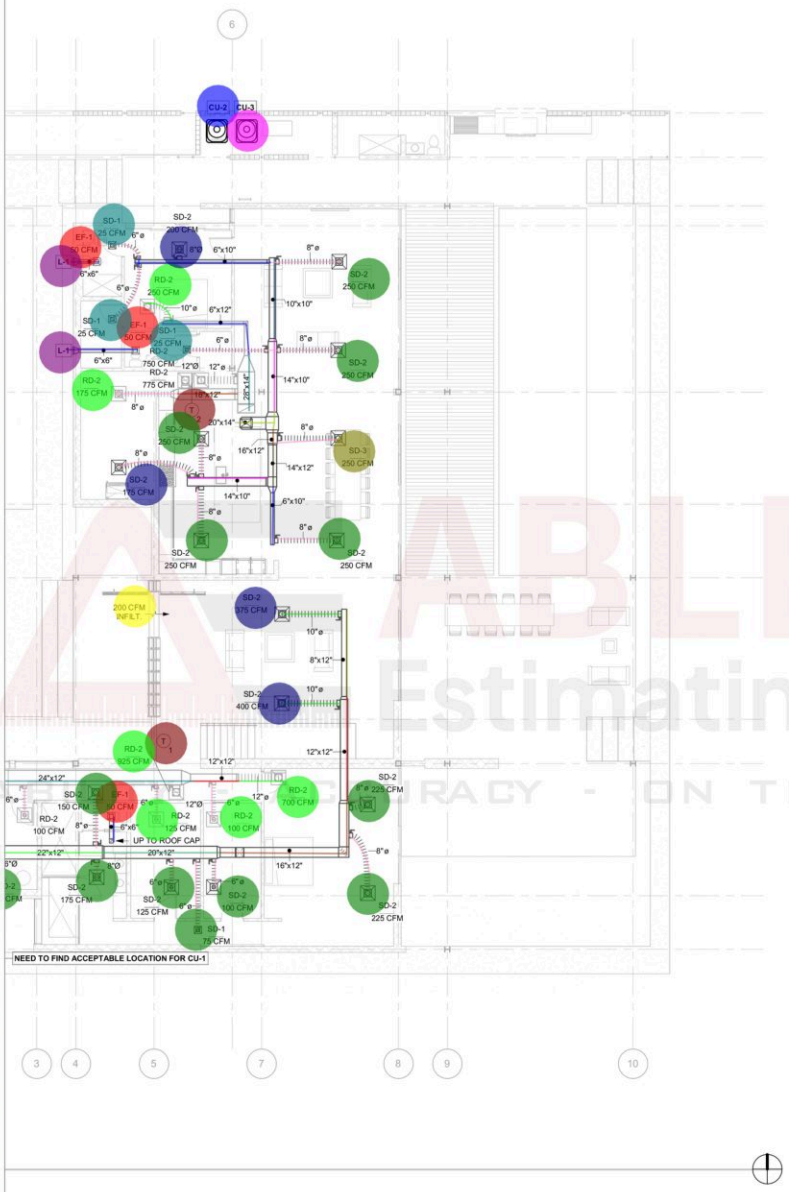
(14"x10") Duct	20.7 FT
(10"x10") Duct	11.1 FT
(6"x10") Duct	27.8 FT
(6"x6") Duct	17.0 FT
(6"x12") Duct	15.8 FT
(14"x12") Duct	6.0 FT
10" Dia Flexible Duct	21.7 FT
12" Dia Flexible Duct	6.1 FT
6" Dia Flexible Duct	57.2 FT
8" Dia Flexible Duct	89.6 FT
cu1	1.0 EA
cu2	1.0 EA
cu3	1.0 EA
ahu1	1.0 EA
Thermostat	2.0 EA
SD-2	5.0 EA
SD-2	1.0 EA
SD-2	2.0 EA
SD-1	1.0 EA
SD-2	1.0 EA
SD-2	1.0 EA
SD-2	2.0 EA
SD-3	1.0 EA
SD-2	1.0 EA
SD-2	1.0 EA
SD-2	1.0 EA
SD-2	1.0 EA
L1	2.0 EA
SD-1	3.0 EA
EF-1	2.0 EA
EF-150 CFM	1.0 EA
RD-2	1.0 EA
RD-2	1.0 EA
RD-2	1.0 EA
RD-2	1.0 EA
RD-2	1.0 EA
RD-2	1.0 EA
Inlet 100 CM	1.0 EA
Inlet 200 CM	1.0 EA



HVAC GENERAL NOTES

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7. M.C. SHALL FURNISH AND INSTALL NEW 7-DAY PROGRAMMABLE T-STATS TO ALL AHJ'S. M.C. SHALL VERIFY MAKE, MODEL, AND COMPATIBILITY WITH T-STATS PRIOR TO ORDERING. COORDINATE FINAL LOCATIONS W/ TENANT.
8. ALL SUPPLY AIR, RETURN AIR, EXHAUST AIR DIFFUSERS/REGISTERS, AND GRILLES SHALL HAVE BALANCE DAMPERS INSTALLED IN RUN OUT DUCTING OR AT THE THROAT. BALANCE DIFFUSERS TO CFM'S SHOWN ON THESE PLANS.
9. ALL 90 DEGREE ELBOWS SHALL HAVE INTEGRAL TURNING VANES.
10. DUCTBOARD SHALL NOT BE USED AS AN ALTERNATIVE TO METAIL / RIGID DUCT.
11. ALL DUCTWORK SHALL BE CONSTRUCTED TO WITHSTAND 2" WATER COLUMN PRESSURE. DUCTWORK SHALL BE FLEX DUCT FOR RUN-OUT DUCTS TO TERMINALS SHEET METAL FOR MAINS AND TRUNK LINES.
12. ALL DUCTWORK SHALL BE BUILT AND INSTALLED TO SMACNA STANDARDS AND HUNG & SUPPORTED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AS WELL AS BEST PRACTICES. FLEXIBLE DUCTWORK SHALL BE INSTALLED AND HUNG AS TO PREVENT BENDS, KINKS, AND SAGS IN DUCTWORK BETWEEN RIGID DUCTS AND AIR TERMINALS.
13. NONMETALLIC DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL AND SHALL COMPLY WITH UL181.
14. FLEX DUCT SHALL BE THERMAFLEX EVERCLEAN OR SIMMILAR, AND SHEET METAL SHALL BE PER M-3 GAUGE AND SIZING. ALL LAPS AND SEALING SHALL BE MECHANICALLY FASTENED FOR SHEET METAL. ALL LEAKAGE SHALL BE LESS THAN 2.5% OF TOTALAIR FLOW.
15. ALL OUTDOOR AIR DUCTS SHALL BE EQUIPPED WITH MOTORIZED OUTDOOR AIR DAMPERS. MOTORIZED OUTDOOR AIR DAMPERS SHALL BE INTERLOCKED WITH EF'S TO OPERATE WHEN EF'S ARE ENERGIZED.

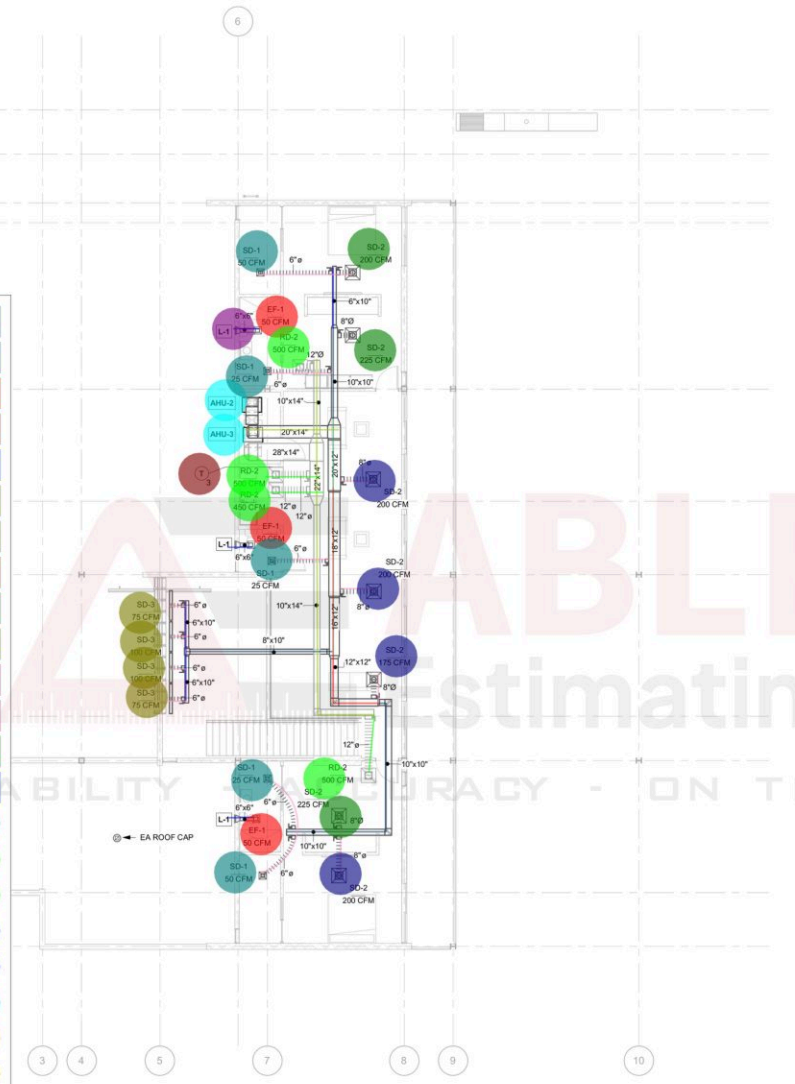
HVAC DUCT LEGEND

SUPPLY AIR	SA
DEMO SUPPLY AIR	DSA
EXISITNG SUPPLY AIR	(E)SA
RETURN AIR	RA
DEMO RETURN AIR	DRA
EXISTING RETURN AIR	(E)RA
EXHAUST AIR	EA
DEMO EXHAUST AIR	DEA
EXISTING EXHAUST AIR	(E)EA
OUTDOOR AIR	OA
EXISTING OUTDOOR AIR	(E)OA
DEMO OUTDOOR AIR	DOA

MECHANICAL DUCTWORK PLAN - LEVEL 1
1/8" = 1'-0"

ABLE Estimating
ABILITY - ACCURACY - ON TIME

(10"x10") Duct	44.4 FT
(8"x10") Duct	19.9 FT
(12"x12") Duct	12.5 FT
(16"x12") Duct	8.1 FT
(6"x10") Duct	21.8 FT
(22"x14") Duct	9.4 FT
(10"x14") Duct	46.8 FT
(18"x12") Duct	15.0 FT
(20"x12") Duct	9.3 FT
(20"x14") Duct	12.9 FT
6" Dia Flexible Duct	56.3 FT
8" Dia Flexible Duct	21.9 FT
12" Dia Flexible Duct	22.7 FT
(6"x6") Duct	10.3 FT
SD-1	2.0 EA
SD-2	1.0 EA
SD-2	2.0 EA
SD-2	3.0 EA
SD-2	1.0 EA
SD-1	3.0 EA
SD-36" DIA 75 CFM	2.0 EA
SD-36" DIA 100 CFM	2.0 EA
RD-2	3.0 EA
RD-2	1.0 EA
EF-1	3.0 EA
L1	1.0 EA
ahu2	1.0 EA
ahu3	1.0 EA
Thermostat	1.0 EA



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HVAC DUCT LEGEND

SUPPLY AIR	SA
DEMO SUPPLY AIR	DSA
EXISITNG SUPPLY AIR	(E)SA
RETURN AIR	RA
DEMO RETURN AIR	DRA
EXISTING RETURN AIR	(E)RA
EXHAUST AIR	EA
DEMO EXHAUST AIR	DEA
EXISTING EXHAUST AIR	(E)EA
OUTDOOR AIR	OA
EXISTING OUTDOOR AIR	(E)OA
DEMO OUTDOOR AIR	DOA

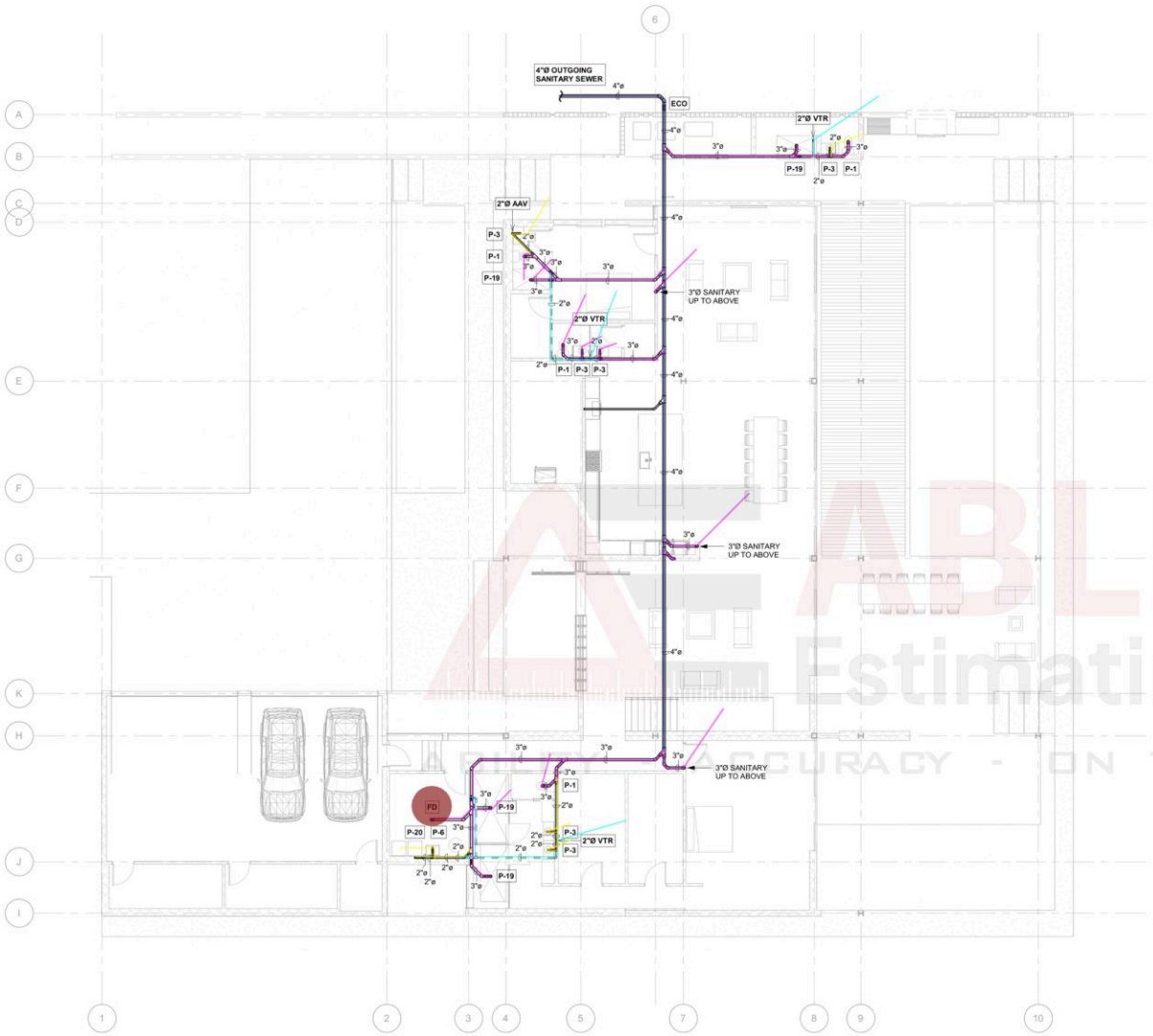
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ABILITY - ACCURACY - ON TIME

MECHANICAL DUCTWORK PLAN - 2ND LEVEL

M101

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PLUMBING GENERAL NOTES

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ABLE Estimating
ABILITY - ACCURACY - ON TIME

3" Sanitary Pipe	211.2 FT
2" Sanitary Pipe	55.8 FT
4" Sanitary Pipe	108.1 FT
2" Vent Pipe	76.8 FT
FD	1.0 EA

PLUMBING PLAN LEGEND

COLD WATER	CW
UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
SANITARY	SAN
VENT PIPING	VENT
NATURAL GAS PIPING	NGAS

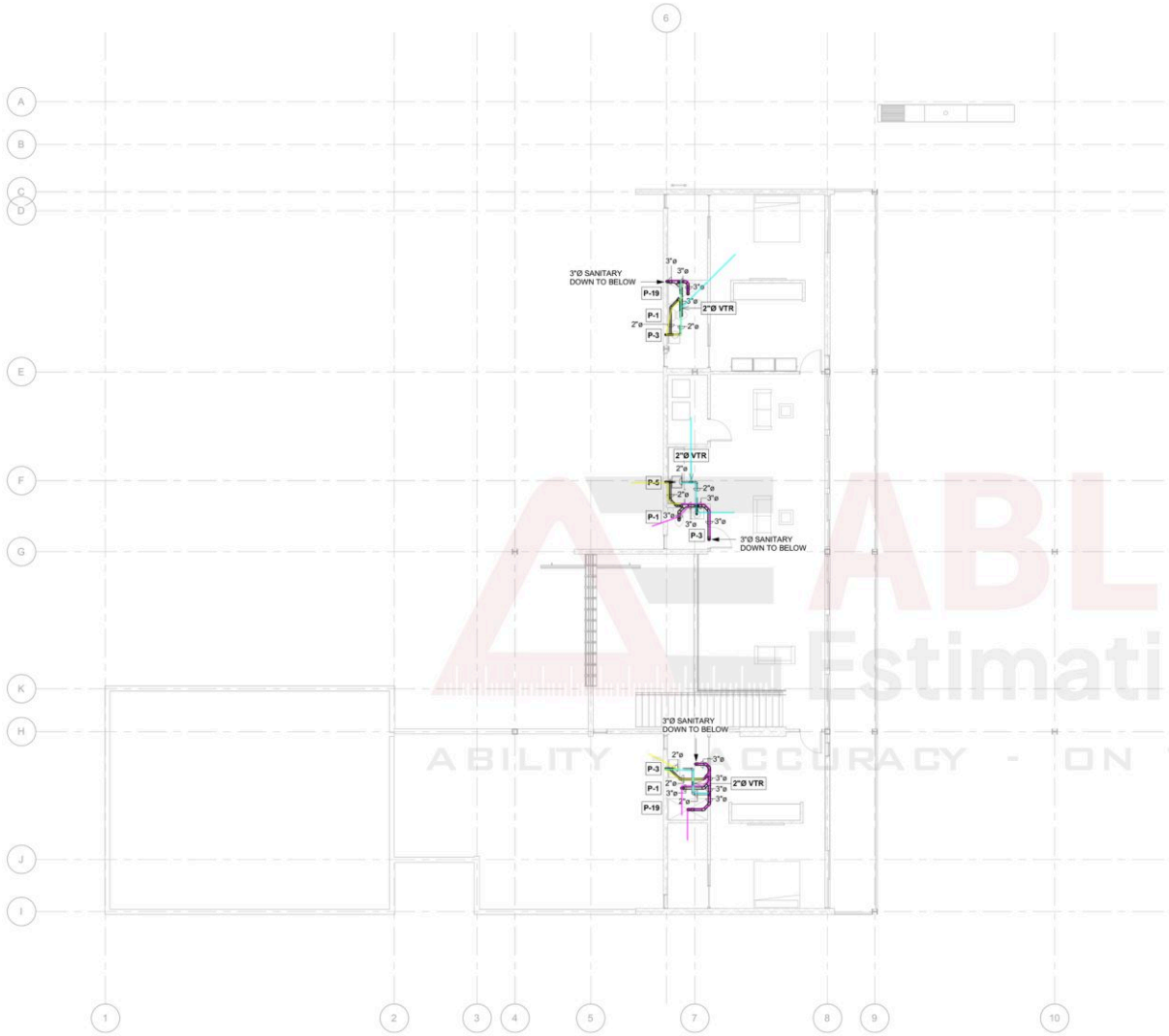
SANITARY & VENT PLANS - 1ST LEVEL

P100

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1 SANITARY & VENT PLAN - LEVEL 2
1/8" = 1'-0"

PLUMBING PLAN LEGEND

COLD WATER	CW
UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
SANITARY	SAN
VENT PIPING	VENT
NATURAL GAS PIPING	NGAS

3" Sanitary Pipe	44.5 FT
2" Sanitary Pipe	37.9 FT
2" Vent Pipe	48.8 FT

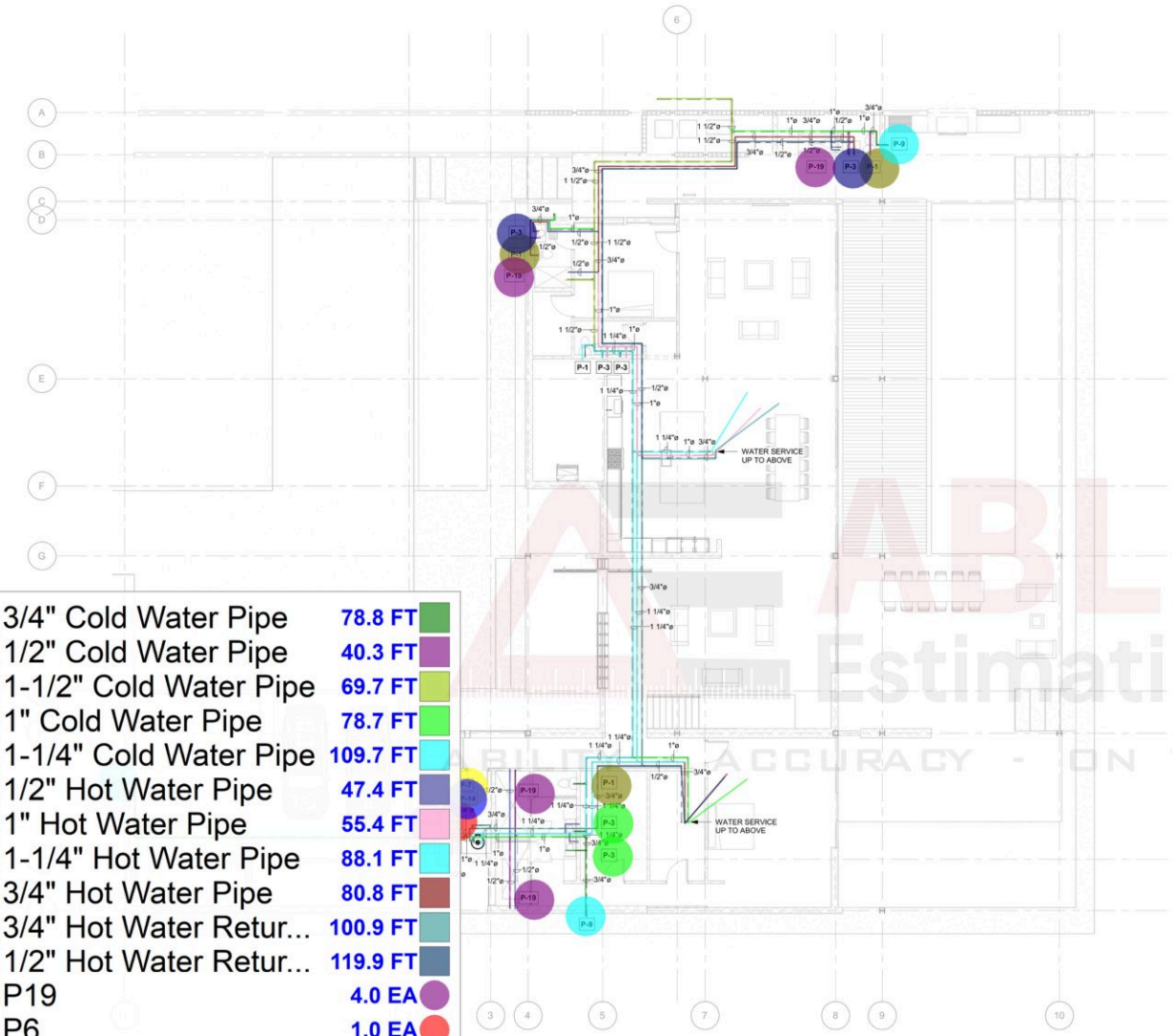
SANITARY & VENT PLANS - 2ND LEVEL

P101

ABLE Estimating
ABILITY - ACCURACY - ON TIME

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PLUMBING PIPING PLAN - LEVEL 1
1/8" = 1'-0"

3/4" Cold Water Pipe	78.8 FT
1/2" Cold Water Pipe	40.3 FT
1-1/2" Cold Water Pipe	69.7 FT
1" Cold Water Pipe	78.7 FT
1-1/4" Cold Water Pipe	109.7 FT
1/2" Hot Water Pipe	47.4 FT
1" Hot Water Pipe	55.4 FT
1-1/4" Hot Water Pipe	88.1 FT
3/4" Hot Water Pipe	80.8 FT
3/4" Hot Water Retur...	100.9 FT
1/2" Hot Water Retur...	119.9 FT
P19	4.0 EA
P6	1.0 EA
P1	3.0 EA
P3	2.0 EA
P7	1.0 EA
P14	1.0 EA
P20	1.0 EA
P9	3.0 EA
P3	2.0 EA

ABLE Estimating
ABILITY - ACCURACY - ON TIME

PLUMBING PLAN LEGEND

COLD WATER	CW
UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
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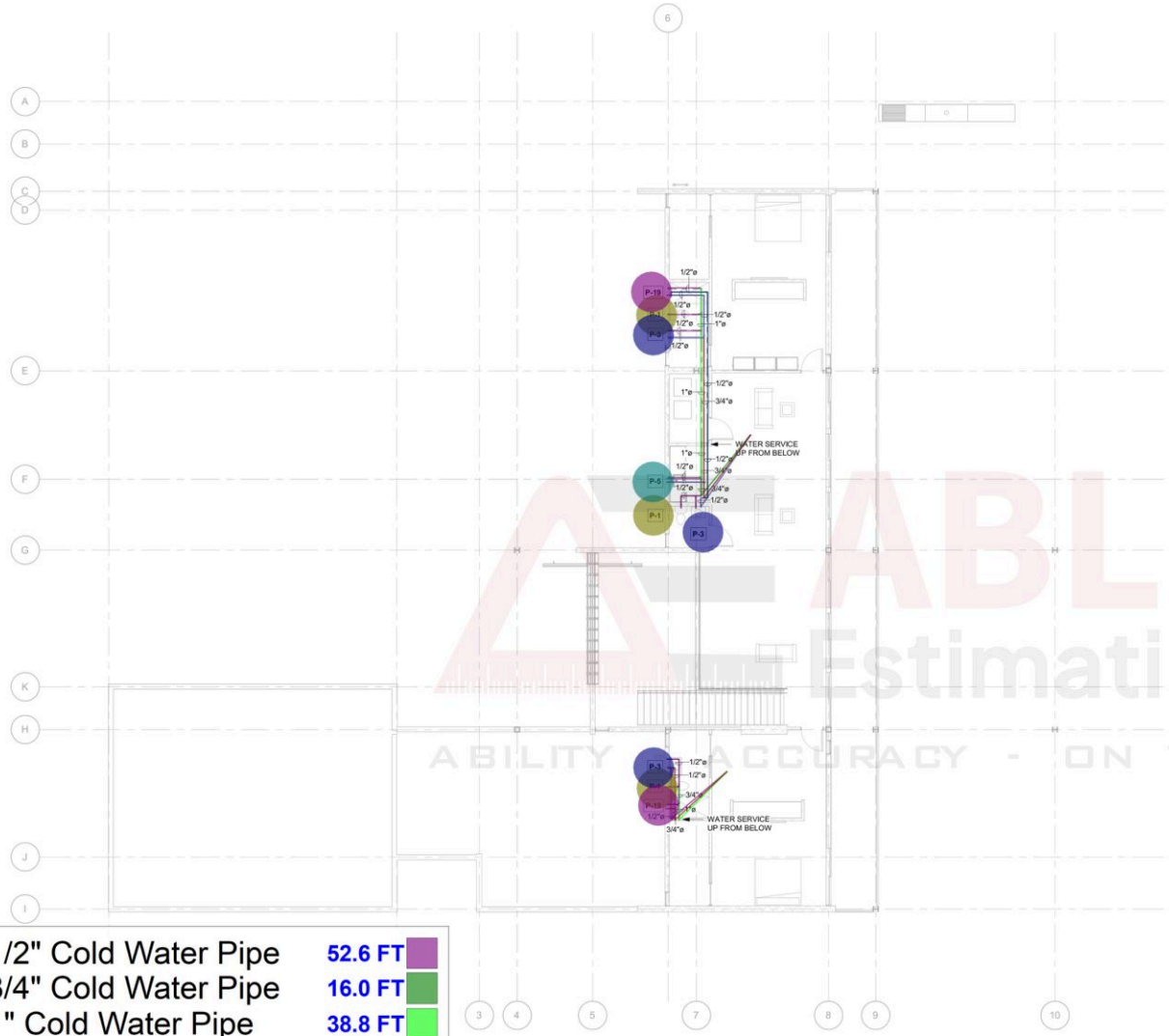
PLUMBING PIPING PLANS - 1ST LEVEL

P200

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1/2" Cold Water Pipe	52.6 FT
3/4" Cold Water Pipe	16.0 FT
1" Cold Water Pipe	38.8 FT
3/4" Hot Water Pipe	53.9 FT
1/2" Hot Water Pipe	36.1 FT
1/2" Hot Water Return...	35.4 FT
P1	3.0 EA
P3	3.0 EA
P19	2.0 EA
P5	1.0 EA

PLUMBING PLAN LEGEND

COLD WATER	CW
UNDERGROUND COLD WATER	UCW
HOT WATER	HW
HOT WATER RETURN	HWR
GREASE SANITARY	GSAN
SANITARY	SAN
VENT PIPING	VENT
NATURAL GAS PIPING	NGAS

PLUMBING PIPING PLANS - 2ND LEVEL

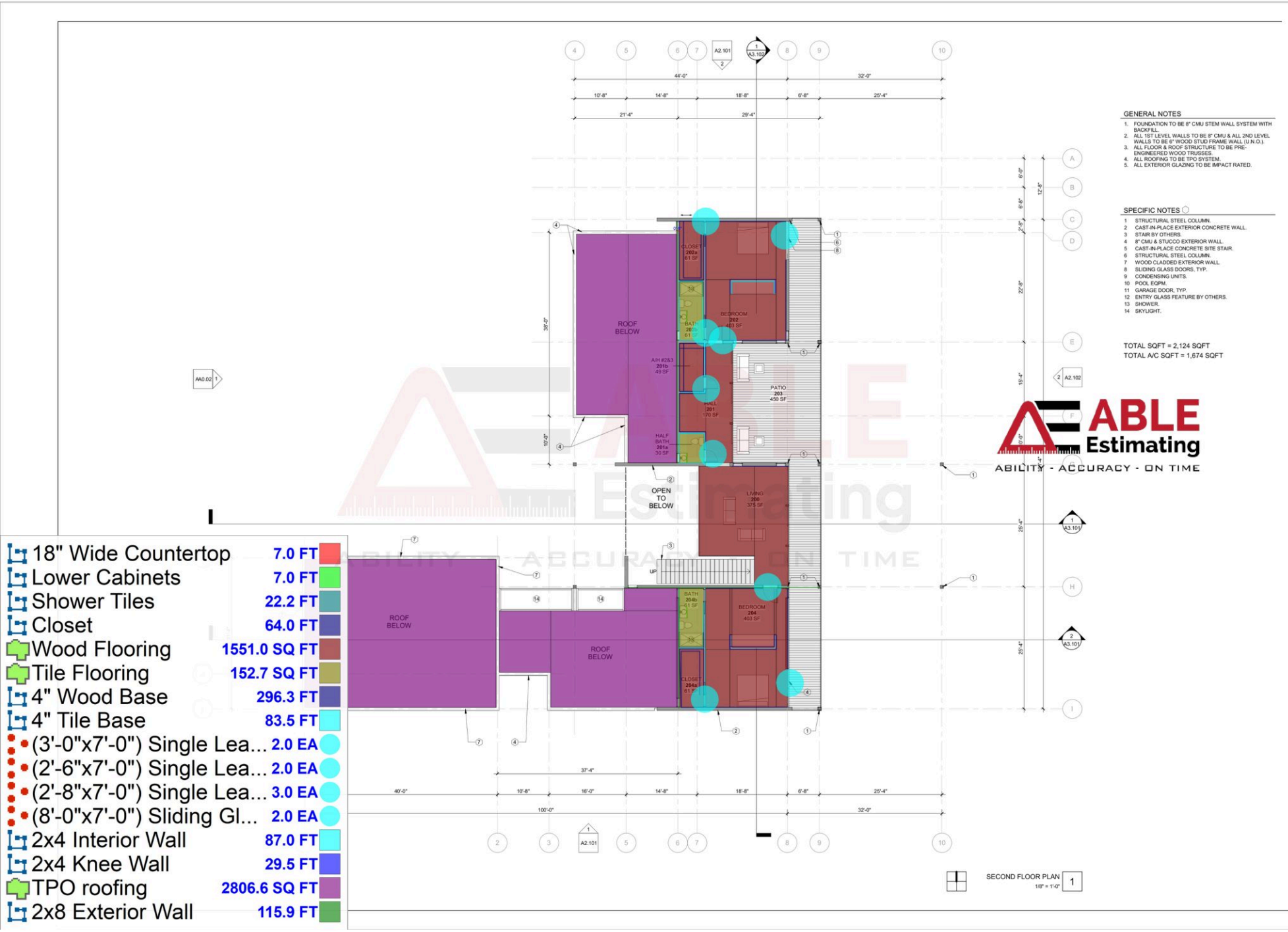
P201

ABLE Estimating
ABILITY - ACCURACY - ON TIME



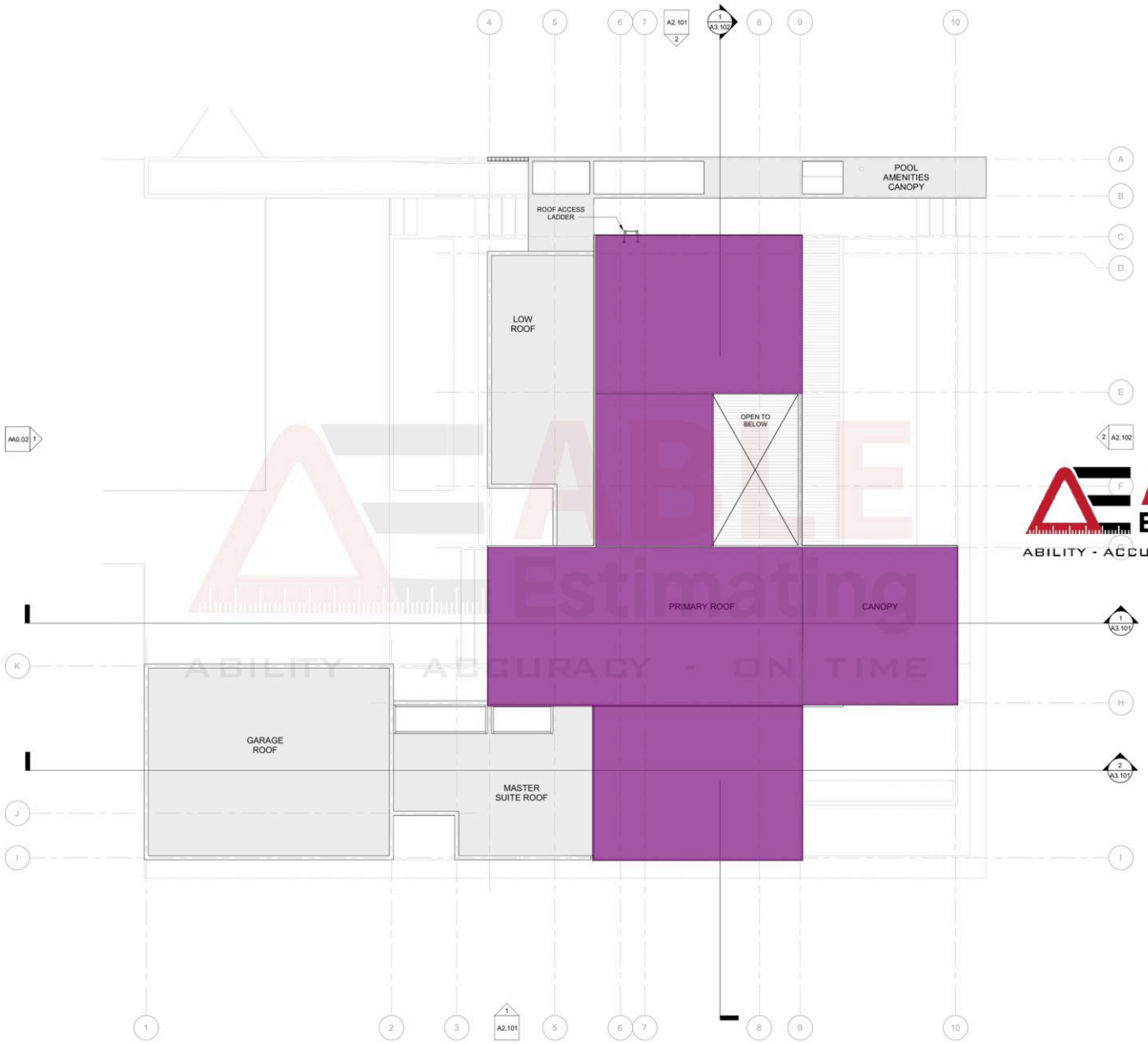
2x4 Interior Wall	286.9 FT
Wood Flooring	3977.6 SQ FT
Sealed Concrete	928.3 SQ FT
Tile Flooring	330.1 SQ FT
4" Wood Base	688.3 FT
4" Tile Base	98.0 FT
4" Rubber Base	47.2 FT
Shower Tiles	38.0 FT
18" Wide Countertop	15.1 FT
36" Wide Countertop	34.5 FT
Lower Cabinets	64.3 FT
Upper Cabinets	34.5 FT
(6'-0"x14'-8") Kitchen is...	1.0 EA
2x4 Knee Wall	29.1 FT
Pool Equipment	1.0 EA
(3'-0"x7'-0") Single Le...	11.0 EA
(19'-0"x7'-8") Garage D...	2.0 EA
(50'-0"x12'-0") Pool By ...	1.0 EA
Planters	1494.9 SQ FT
Closet	124.4 FT

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18" Wide Countertop	7.0 FT
Lower Cabinets	7.0 FT
Shower Tiles	22.2 FT
Closet	64.0 FT
Wood Flooring	1551.0 SQ FT
Tile Flooring	152.7 SQ FT
4" Wood Base	296.3 FT
4" Tile Base	83.5 FT
(3'-0"x7'-0") Single Lea...	2.0 EA
(2'-6"x7'-0") Single Lea...	2.0 EA
(2'-8"x7'-0") Single Lea...	3.0 EA
(8'-0"x7'-0") Sliding Gl...	2.0 EA
2x4 Interior Wall	87.0 FT
2x4 Knee Wall	29.5 FT
TPO roofing	2806.6 SQ FT
2x8 Exterior Wall	115.9 FT

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GENERAL NOTES

1. FOUNDATION TO BE 8" CMU STEM WALL SYSTEM WITH BACKFILL.
2. ALL 1ST LEVEL WALLS TO BE 8" CMU & ALL 2ND LEVEL WALLS TO BE 6" WOOD STUD FRAME WALL (U.N.O.).
3. ALL FLOOR & ROOF STRUCTURE TO BE PRE-ENGINEERED WOOD TRUSSES.
4. ALL ROOFING TO BE TPO SYSTEM.
5. ALL EXTERIOR GLAZING TO BE IMPACT RATED.

ABLE Estimating
ABILITY - ACCURACY - ON TIME

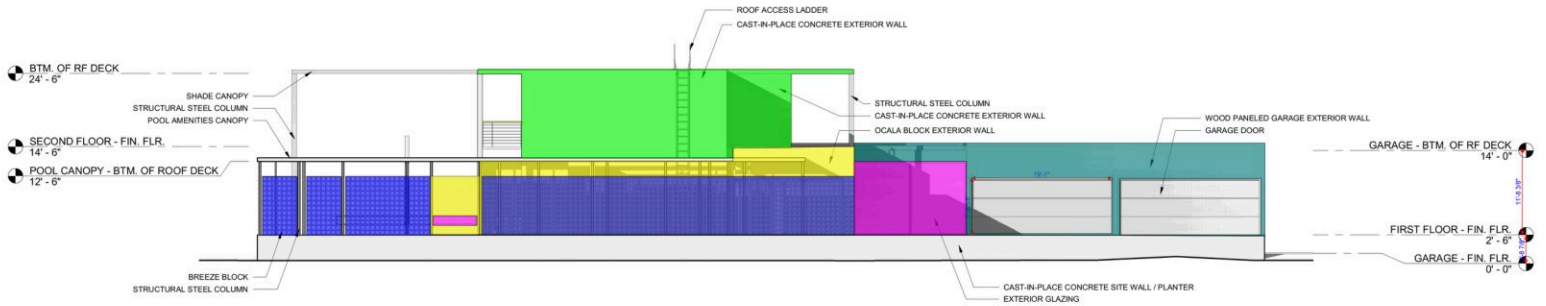
ROOF PLAN

ROOF PLAN 1
1/8" = 1'-0"

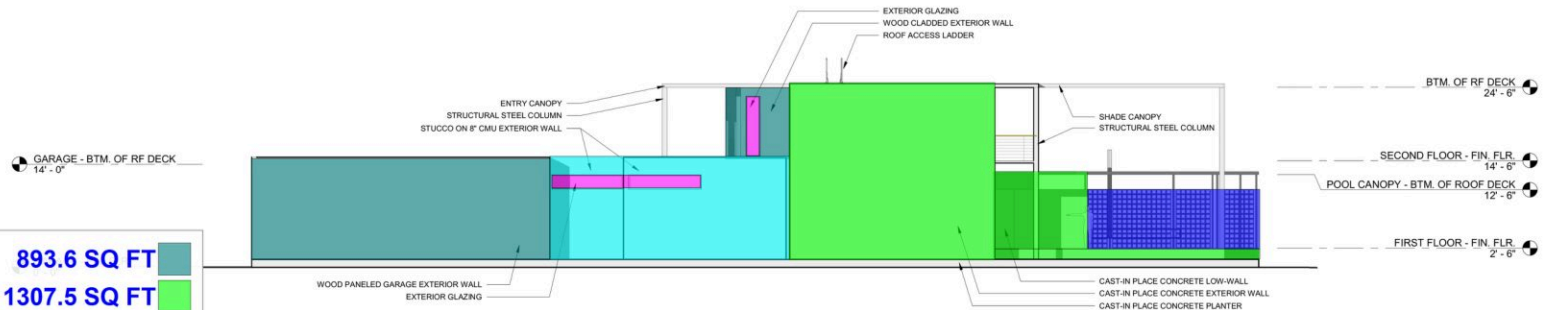
A1.301

TPO roofing 4205.3 SQ FT

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ELEVATION - NORTH 2
1/8" = 1'-0"



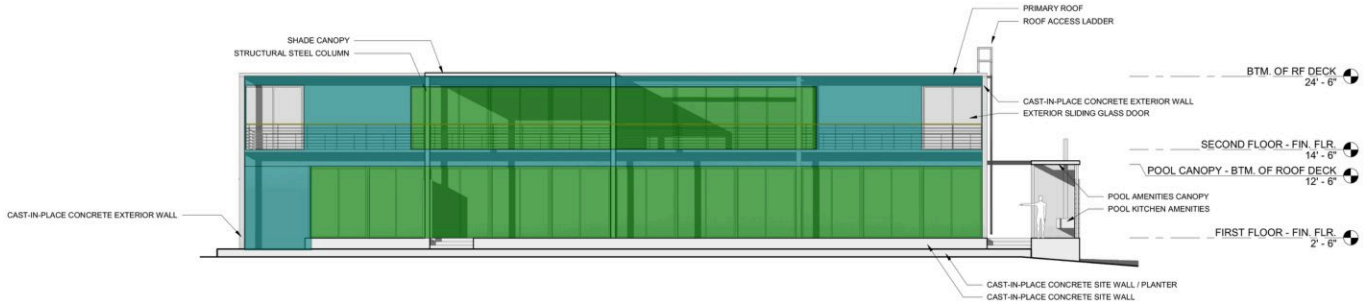
ELEVATION - SOUTH 1
1/8" = 1'-0"

Wood Paneled	893.6 SQ FT
Paint @ Concret...	1307.5 SQ FT
Ocala Blocks	588.3 SQ FT
Breeze Blocks	761.0 SQ FT
Exterior glazing	209.2 SQ FT
Stucco	426.8 SQ FT
42" High Balcony raili...	11.1 FT

ELEVATIONS

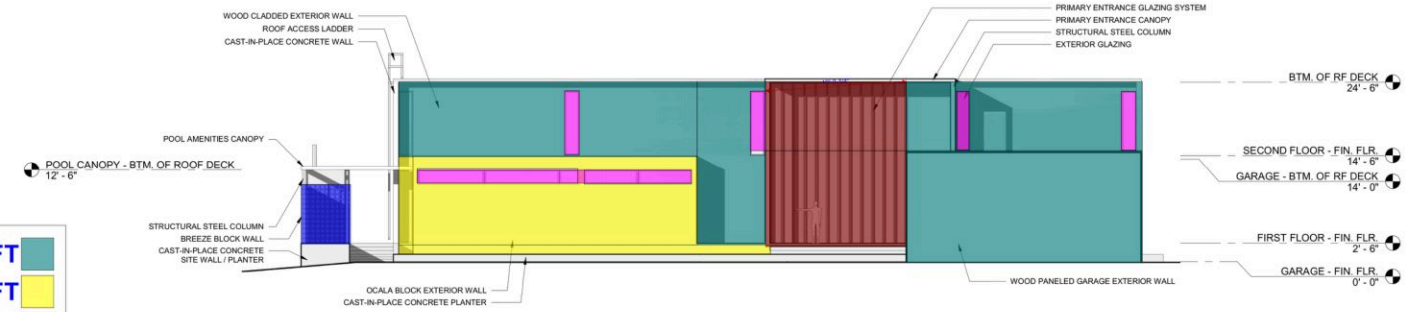
A2.101

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ABILITY - ACCURACY - ON TIME



ELEVATION - EAST 2
1/8" = 1'-0"

ABLE Estimating
ABILITY - ACCURACY - ON TIME



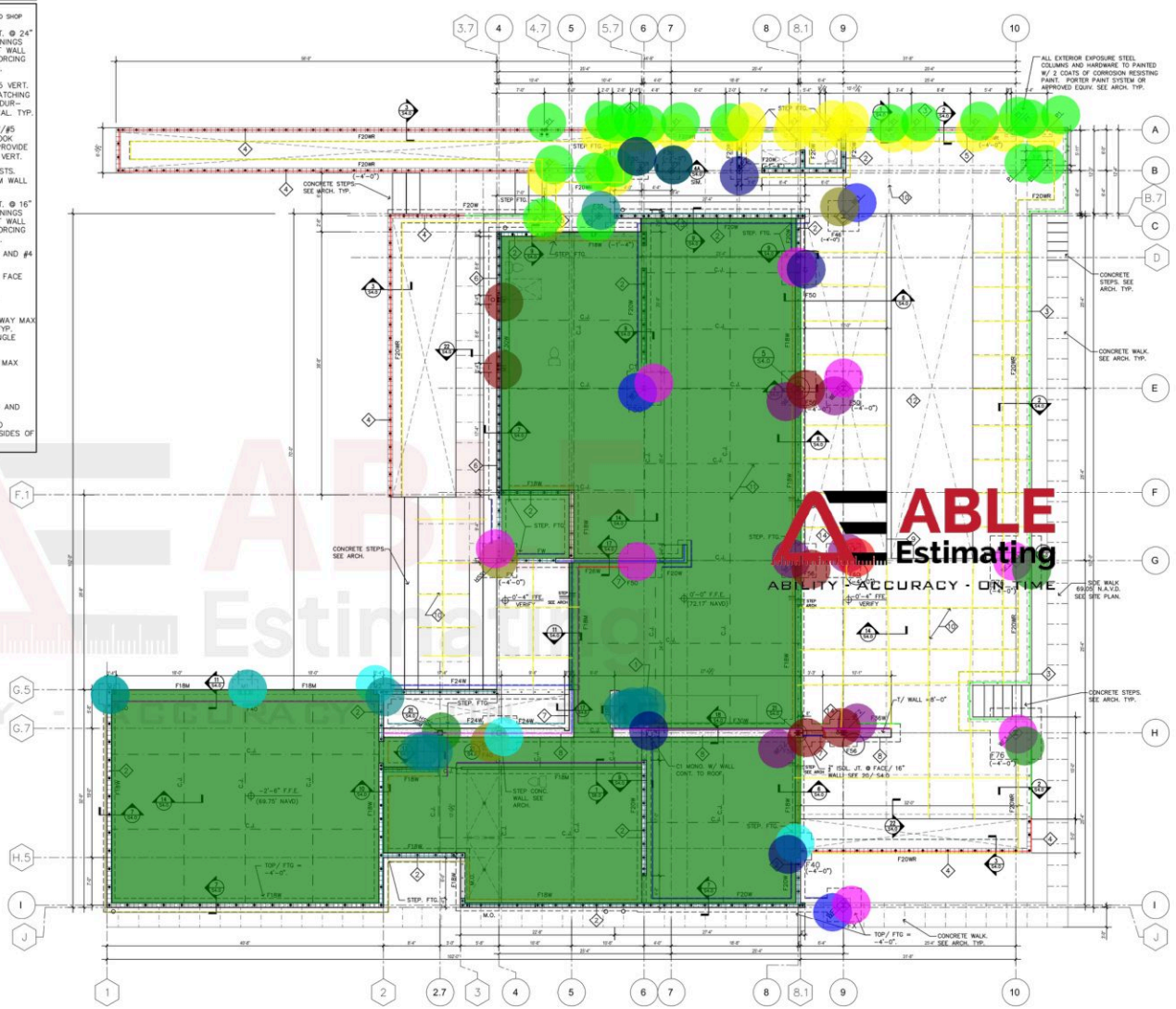
ELEVATION - WEST 1
1/8" = 1'-0"

Wood Paneled	2092.1 SQ FT
Ocala Blocks	483.2 SQ FT
Exterior glazing	131.3 SQ FT
Primary Entrance...	431.8 SQ FT
Breeze Blocks	54.3 SQ FT
Storefronts	1361.2 SQ FT
42" High Balcony rai...	100.5 FT

ELEVATIONS

A2.102

F30W	68.3 FT
F18W	247.1 FT
F20W	124.9 FT
F18M	89.4 FT
F24W	21.2 FT
F26W	7.4 FT
F28W	9.1 FT
F20WR	456.5 FT
F24W	26.4 FT
F50	6.0 EA
F40	3.0 EA
F56	4.0 EA
F76	2.0 EA
F46	1.0 EA
F26	3.0 EA
T16	5.6 FT
F30	3.0 EA
F60	1.0 EA
P1	22.0 EA
P2	4.0 EA
WF1	3.0 EA
WF3	2.0 EA
M2	2.0 EA
M1	3.0 EA
HSS1	1.0 EA
HSS1	2.0 EA
c1	3.0 EA
WF2	6.0 EA
8" mASNORY wALL	370.1 FT
8" pLANTER wALL	231.4 FT
8" mASONRY sTEM ...	280.6 FT
16X16 sOLID gROUT...	19.0 EA
8" Concrete Wall	30.7 FT
16" Conbcrete Wall	65.8 FT
4" Slab on Grade W/	5595.4 SQ FT
1.3 Thickend Edge	46.0 FT
(12"x12") Strip Footing ...	5.9 FT
Concrete Steps	8.0 EA
10	602.4 FT



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

S1.0

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GENERAL PLAN NOTES:

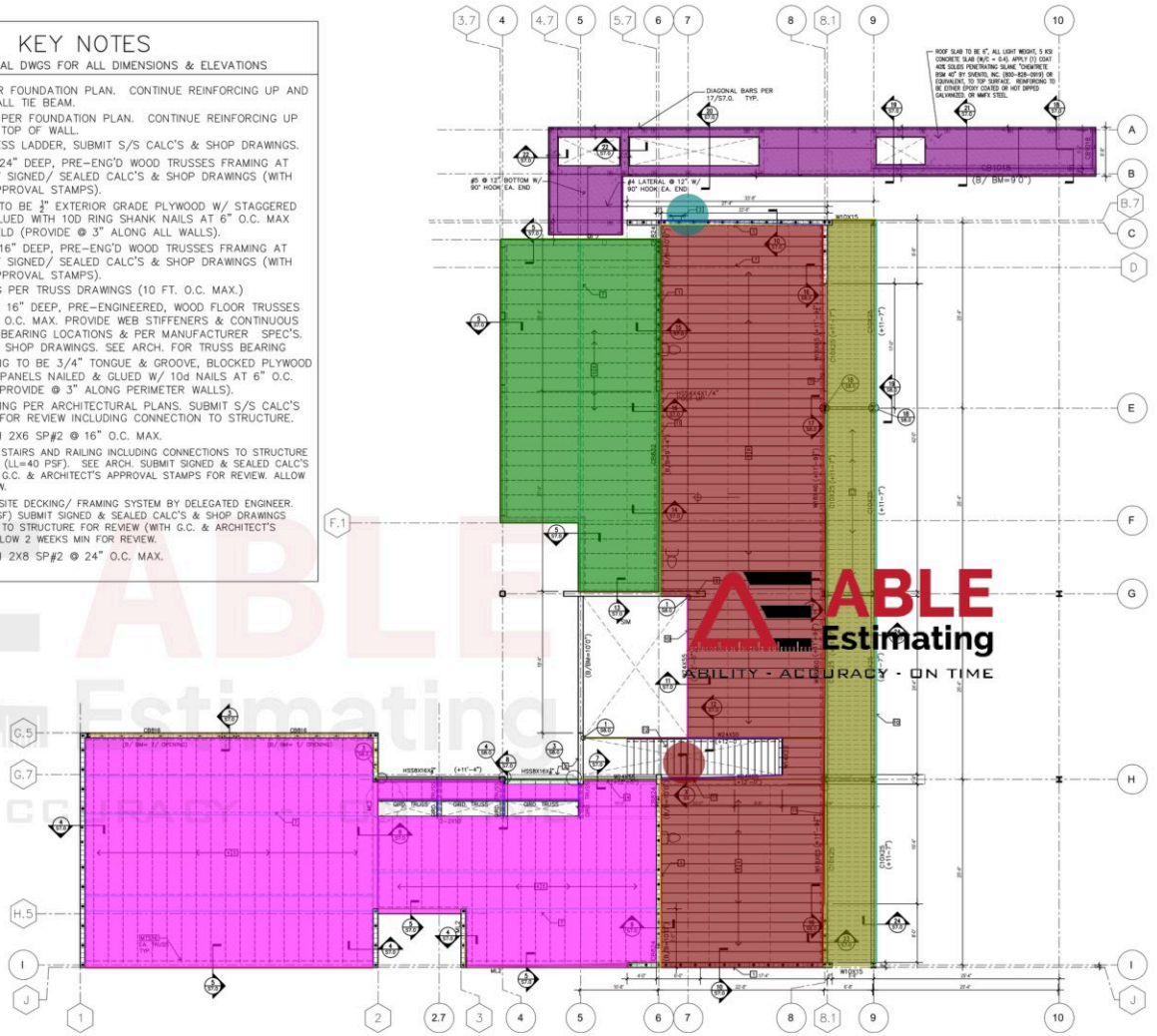
1. FLOOR FRAMING TO BE 16" DEEP, PRE-ENGINEERED, WOOD FLOOR TRUSSES BY TRUSS ENGINEER @ 24" O.C. MAX. PROVIDE WEB STIFFENERS AND CONTINUOUS BLOCKING AT BOTTOM BEARING LOCATIONS & WHERE REQUIRED PER MFG. SPECIFICATIONS. SUBMIT S/S CALC'S AND SHOP DRAWINGS. SEE ARCH. TRUSS BEARING
2. FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE PLYWOOD NAILED AND GLUED WITH 10d RING SHANK NAILS AT 6" O.C. MAX EDGES AND 6" O.C. FIELD (PROVIDE @ 3" ALONG PERIMETER).
3. VERIFY BEARING ELEVATIONS WITH ARCHITECTURAL SHEETS.
4. LOAD BEARING WALLS TO BE 2X6 AT 16" O.C. MAX. W/ 2X6 BLOCKING 4' O.C. MAX.
5. WALL SHEATHING TO BE 1/2" EXTERIOR GRADE PLYWOOD NAILED W/ 10d'S @ 6" EDGES & 6" O.C. FEILD.
6. TRUSS TO TRUSS CONNECTIONS PER MFG.
10. PROVIDE A PRE-CAST CONC. LINTEL OVER ALL OPENNINGS NOT SHOWN TO A POURED CONC. BEAM. REINFORCE LINTEL WITH 1#5 CONT. & GROUT SOLID.
8. ABBREVIATIONS:
   PL= PARALAM PSL 2.0E BEAM OR COLUMN. TYP.
   ML= PRECAST CONCRETE LINTEL SEE SCHEDULE
   CB##= C.I.P. 4KSI CONCRETE BEAM. SEE BEAM SCHEDULE. TYP.
9. SEE SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION.
10. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE.

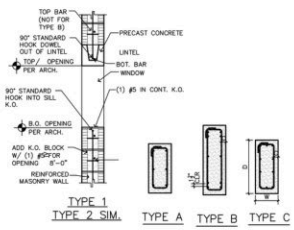
CB816	38.1 FT
CB824	18.7 FT
CB832	27.5 FT
ML2	58.4 FT
HSS8x16x1/8	27.4 FT
W24x55	86.3 FT
W14x22	5.1 FT
W18x60	25.3 FT
C10x25	186.7 FT
W18x65	34.9 FT
W18x46	25.3 FT
W10x15	12.9 FT
Girder Truss	44.1 FT
24" Deep pre-Engi...	2062.4 SQ FT
Truss Bridging	273.6 FT
16" Deep Floor Tr...	2108.6 SQ FT
16" Deep pre-Engi...	944.3 SQ FT
13	710.4 SQ FT
CB1018	35.6 FT
6" Roof Slab Light ...	442.5 SQ FT
Pre. Roof Acces Ladder	1.0 EA
2-2x10 PT Ledger	431.1 FT
2x Blocking	169.2 FT
2x4 Blocking	177.2 FT
2x10 PT ledger	124.9 FT
2-2x12" Ply wood Blco...	29.3 FT
L6x6x3/8	101.5 FT
Pre ngineered Metal St...	1.0 EA
Linear	37.9 FT

KEY NOTES

REFER TO ARCHITECURAL DWGS FOR ALL DIMENSIONS & ELEVATIONS

1. 8" MASONRY WALL PER FOUNDATION PLAN. CONTINUE REINFORCING UP AND HOOK INTO TOP OF WALL TIE BEAM.
2. P.I.P. CONCRETE WALL PER FOUNDATION PLAN. CONTINUE REINFORCING UP AND HOOK INTO TOP OF WALL.
3. PRE-ENG'D ROOF ACCESS LADDER, SUBMIT S/S CALC'S & SHOP DRAWINGS.
4. LOW ROOF AREA WITH 24" DEEP, PRE-ENG'D WOOD TRUSSES FRAMING AT 24" O.C. MAX, SUBMIT SIGNED/ SEALED CALC'S & SHOP DRAWINGS (WITH G.C. & ARCHITECT'S APPROVAL STAMPS).
5. LOW ROOF SHEATHING TO BE 3/4" EXTERIOR GRADE PLYWOOD W/ STAGGERED PANELS NAILED AND GLUED WITH 10D RING SHANK NAILS AT 6" O.C. MAX EDGES AND 6" O.C. FIELD (PROVIDE @ 3" ALONG ALL WALLS).
6. LOW ROOF AREA WITH 16" DEEP, PRE-ENG'D WOOD TRUSSES FRAMING AT 24" O.C. MAX, SUBMIT SIGNED/ SEALED CALC'S & SHOP DRAWINGS (WITH G.C. & ARCHITECT'S APPROVAL STAMPS).
7. CONT. TRUSS BRIDGING PER TRUSS DRAWINGS (10 FT. O.C. MAX.)
8. FLOOR FRAMING TO BE 16" DEEP, PRE-ENGINEERED, WOOD FLOOR TRUSSES BY TRUSS ENG'R @16" O.C. MAX. PROVIDE WEB STIFFENERS & CONTINUOUS BLOCKING AT BOTTOM BEARING LOCATIONS & PER MANUFACTURER SPEC'S. SUBMIT S/S CALC'S & SHOP DRAWINGS. SEE ARCH. FOR TRUSS BEARING
9. FLOOR DECK SHEATHING TO BE 3/4" TONGUE & GROOVE, BLOCKED PLYWOOD DECK W/ STAGGERED PANELS NAILED & GLUED W/ 10d NAILS AT 6" O.C. MAX EDGES & FIELD (PROVIDE @ 3" ALONG PERIMETER WALLS).
10. PRE-ENGINEERED RAILING PER ARCHITECTURAL PLANS. SUBMIT S/S CALC'S AND SHOP DRAWINGS FOR REVIEW INCLUDING CONNECTION TO STRUCTURE.
11. 2X6 FRAME WALL WITH 2X6 SP#2 @ 16" O.C. MAX.
12. PRE-ENGINEERED METAL STAIRS AND RAILING INCLUDING CONNECTIONS TO STRUCTURE BY DELEGATED ENGINEER (LL=40 PSF). SEE ARCH. SUBMIT SIGNED & SEALED CALC'S & SHOP DRAWINGS WITH G.C. & ARCHITECT'S APPROVAL STAMPS FOR REVIEW. ALLOW 2 WEEKS MIN FOR REVIEW.
13. PRE-ENGINEERED COMPOSITE DECKING/ FRAMING SYSTEM BY DELEGATED ENGINEER. (DL=15 PSF, LL = 40 PSF) SUBMIT SIGNED & SEALED CALC'S & SHOP DRAWINGS INCLUDING CONNECTIONS TO STRUCTURE FOR REVIEW (WITH G.C. & ARCHITECT'S APPROVAL STAMPS) . ALLOW 2 WEEKS MIN FOR REVIEW.
14. 2X8 FRAME WALL WITH 2X8 SP#2 @ 24" O.C. MAX.





P.I.P. CONCRETE BEAM SCHEDULE (4000PSI)

TAG	W X D	TOP BARS	MID BARS	BOT. BARS	STIRRUPS	C	NOTES
CB816	8"x16"	(2) #5	(2) #5	(2) #5	#3 @ 8"	1½" CLR.	TYPE A
CB824A	8"x24"	(2) #5	(4) #5	(2) #5	#3 @ 8"	1½" CLR.	TYPE C
CB824	8"x24"	(2) #5	(2) #5	(2) #5	#3 @ 8"	1½" CLR.	TYPE A
CB832	8"x32"	(4) #7	(7) #6	(4) #7	#3 @ 8"	1½" CLR.	TYPE B
CB1018	10"x18"	(3) #5	(4) #5	(3) #5	#3 @ 8"	1½" CLR.	TYPE C
CB1224	12"x24"	(3) #5	(4) #5	(3) #5	#3 @ 8"	1½" CLR.	TYPE C

PROVIDE MATCHING CORNER DOWELS INTO INTERSECTING/ BEARING WALLS

MASONRY LINTEL SCHEDULE

MARK	SIZE	REINFORCING TOP	REINFORCING BOT	REMARKS	
ML1	8"x16"	–	1 #5	TYPE 1	BOT./ BM. =TOP/ OPENING SEE ARCH.
ML2	8"x16"	1 #5	1 #5	TYPE 2	

MEZZANINE FRAMING PLAN

SCALE: 3/16" = 1'-0"

NORTH

S2.0

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ABILITY - ACCURACY - ON TIME

GENERAL PLAN NOTES:

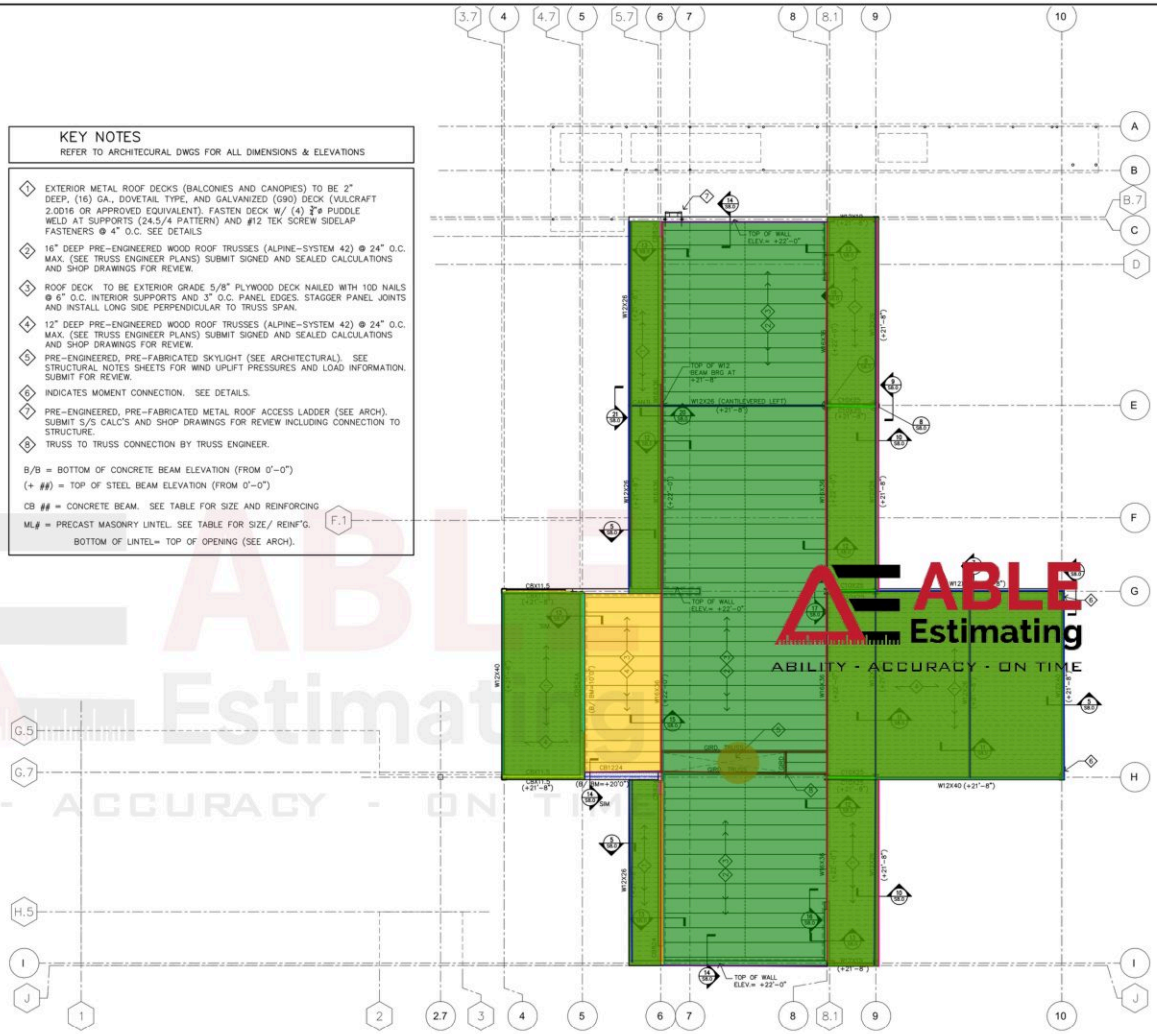
1. ROOF FRAMING TO BE PRE-ENGINEERED WOOD ROOF TRUSSES AT 24" O.C. NAX. DESIGN TRUSSES FOR 145 MPH (3-SECOND GUST), EXPOSURE "D" (COMPONENTS AND CLADDING).
   ROOF TRUSS SLOPE 0:12 EXCEPT WHERE SHOWN OTHERWISE SEE ARCHITECTURAL. FOR TAPERED INSULATION. TRUSS BEARING= SEE ARCHITECTURAL PLANS
2. SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS STAMPED WITH G.C. AND ARCHITECT REVIEWED STAMPS FOR REVIEW. ALLOW 2 WEEKS FOR REVIEW/ APPROVAL.
3. CONTRACTOR/ERECTOR RESPONSIBLE FOR ALL TEMPORARY BRACING. CONTRACTOR TO PROVIDE SIMPSON STRONG TIE CONNECTORS AT ALL TRUSS BEARING POINTS CAPABLE OF RESISTING UPLIFT FORCES SHOWN ON APPROVED TRUSS ENGINEER'S DRAWINGS & CALCULATIONS. STRAPS SHOWN ARE MIN. ALL SIMPSON CONNECTORS ARE TO BE FULLY NAILED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. U.N.O.
4. ROOF DECK TO BE 5/8" CDX PLYWOOD MANUFACTURED FOR EXTERIOR EXPOSURE. FASTEN DECK TO FRAMING W/10d RINK SHANK NAILS AT 3" O.C. AT PANEL EDGE SUPPORTS, & 6" O.C. FIELD, FASTEN AT 3" O,C, IN END ZONES, VALLEYS, RIDGES, EAVES AND GABLE ENDS. INSTALL ROOF DECK PLYWOOD PANELS WITH LONG SIDE PERPENDICULAR TO FRAMING AND STAGGER PANEL JOINTS.
5. SEE ARCHITECTURAL PLANS AND BUILDING SECTIONS FOR BEARING HEIGHTS.
6. REFER TO ARCHITECT'S DRAWINGS FOR WOOD TRUSS CONFIGURATIONS.
7. REFER TO ARCHITECTURAL SHEETS FOR ALL DIMENTIONS AND ELEVATIONS.
8. REFER TO MECHANICAL DWGS. FOR WEIGHT AND LOCATIONS OF ANY MECHANICAL UNITS SUSPENDED FROM TRUSSES.
9. PL= PARALLAM PSL 2.0E ENGINEERED WOOD BEAM.
10. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE.
11. CONTRACTOR RESPONSIBLE FOR THE SAFTY OF THE BUILDING DURING CONSTRUCTION.
12. CONTRACTOR ERRECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING.
13. TRUSS MANUFACTURER TO BE RESPONSIBLE FOR THE ENGINEERING AND CERTIFICAION OF THE TRUSS LAYOUT AS SHOWN AND OR ANY DEVIATION FROM THIS SUGGESTED LAYOUT WHICH MAY BE DEEMED NECESSARY.
14. MANUFACTURER TO SHIP ALL TRUSSES AND CONVENTIONAL FRAMING, ABOVE TOP PLATE LINE, CUT AND SIZED.
15. ALL TRUSSES MUST INCLUDE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PLANS WHEN SHIPPED TO THE JOB SITE.
16. ALL TRUSSES TO BE SHIPPED WITH BOLTS FOR GIRDER ASSEMBLY. BOLTS ARE TO BE SET PER ENGINEER'S RECOMMENDATION.

SEE SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION

KEY NOTES
REFER TO ARCHITECURAL DWGS FOR ALL DIMENSIONS & ELEVATIONS

1. EXTERIOR METAL ROOF DECKS (BALCONIES AND CANOPIES) TO BE 2" DEEP, (16) GA., DOVETAIL TYPE, AND GALVANIZED (G90) DECK (VULCRAFT 2.0D16 OR APPROVED EQUIVALENT). FASTEN DECK W/ (4) ∅"ø PUDDLE WELD AT SUPPORTS (24.5/4 PATTERN) AND #12 TEK SCREW SIDELAP FASTENERS @ 4" O.C. SEE DETAILS
2. 16" DEEP PRE-ENGINEERED WOOD ROOF TRUSSES (ALPINE-SYSTEM 42) @ 24" O.C. MAX. (SEE TRUSS ENGINEER PLANS) SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW.
3. ROOF DECK TO BE EXTERIOR GRADE 5/8" PLYWOOD DECK NAILED WITH 10D NAILS @ 6" O.C. INTERIOR SUPPORTS AND 3" O.C. PANEL EDGES. STAGGER PANEL JOINTS AND INSTALL LONG SIDE PERPENDICULAR TO TRUSS SPAN.
4. 12" DEEP PRE-ENGINEERED WOOD ROOF TRUSSES (ALPINE-SYSTEM 42) @ 24" O.C. MAX. (SEE TRUSS ENGINEER PLANS) SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW.
5. PRE-ENGINEERED, PRE-FABRICATED SKYLIGHT (SEE ARCHITECTURAL). SEE STRUCTURAL NOTES SHEETS FOR WIND UPLIFT PRESSURES AND LOAD INFORMATION. SUBMIT FOR REVIEW.
6. INDICATES MOMENT CONNECTION. SEE DETAILS.
7. PRE-ENGINEERED, PRE-FABRICATED METAL ROOF ACCESS LADDER (SEE ARCH). SUBMIT S/S CALC'S AND SHOP DRAWINGS FOR REVIEW INCLUDING CONNECTION TO STRUCTURE.
8. TRUSS TO TRUSS CONNECTION BY TRUSS ENGINEER.

B/B = BOTTOM OF CONCRETE BEAM ELEVATION (FROM 0'-0")
(+ ##) = TOP OF STEEL BEAM ELEVATION (FROM 0'-0")
CB ## = CONCRETE BEAM. SEE TABLE FOR SIZE AND REINFORCING
ML# = PRECAST MASONRY LINTEL. SEE TABLE FOR SIZE/ REINF'G.
BOTTOM OF LINTEL= TOP OF OPENING (SEE ARCH).



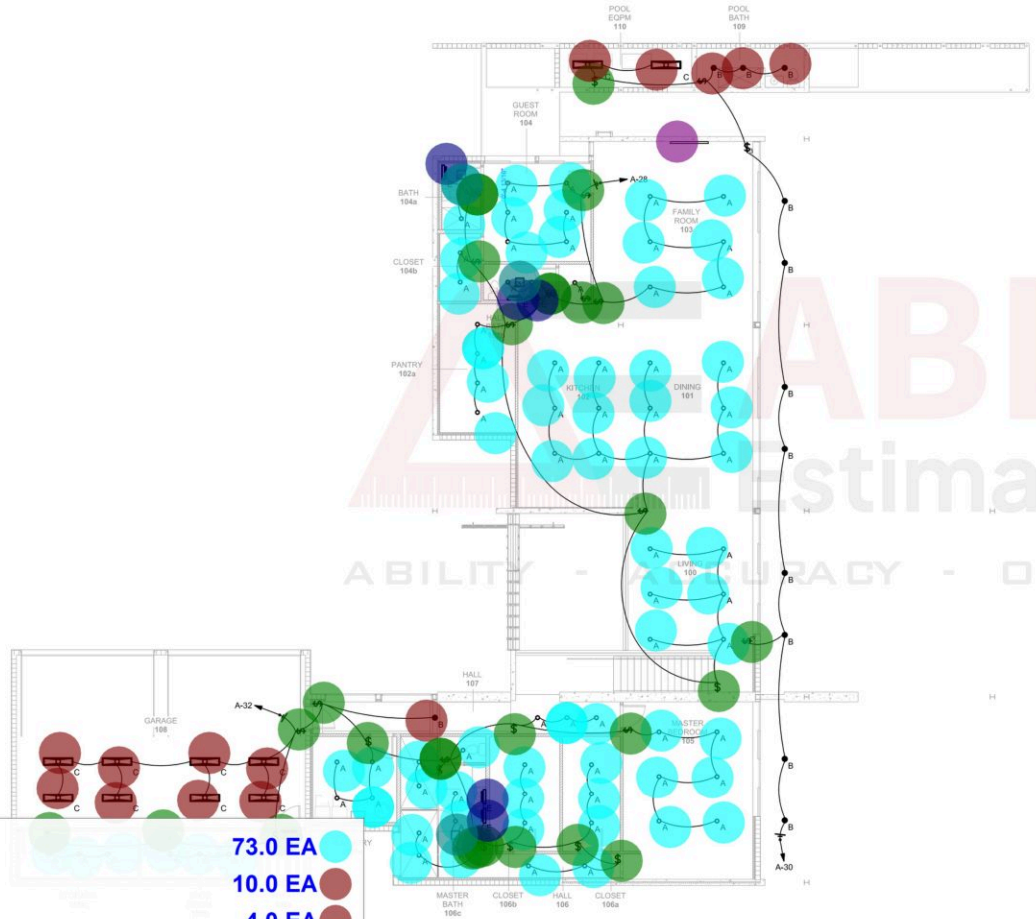
ABLE Estimating
ABILITY - ACCURACY - ON TIME

16" Deep pre-Eng...	2283.0 SQ FT
12" Deep pre-Eng...	2256.3 SQ FT
1	1988.9 SQ FT
W12x19	13.0 FT
W12x26	228.9 FT
W16x36	139.4 FT
W12x40	101.9 FT
C10X25	40.4 FT
C8X11.5	40.5 FT
CB1224	10.6 FT
CB824	4.0 FT
CB824A	18.8 FT
gIRDER tRUSS	48.2 FT
5	1.0 EA
2x10 PT ledger	55.6 FT
2x4 PT ledger	55.1 FT
2-2x10 PT ledger	202.0 FT
L3x3x3/16	277.5 FT
PL6x3x3/16 Bent Plate	126.9 FT
2x Nailer	76.0 FT

ROOF FRAMING PLAN
SEE FRAMING NOTES FOR MORE INFO

NORTH

S3.0



FIRST FLOOR LIGHTING PLAN

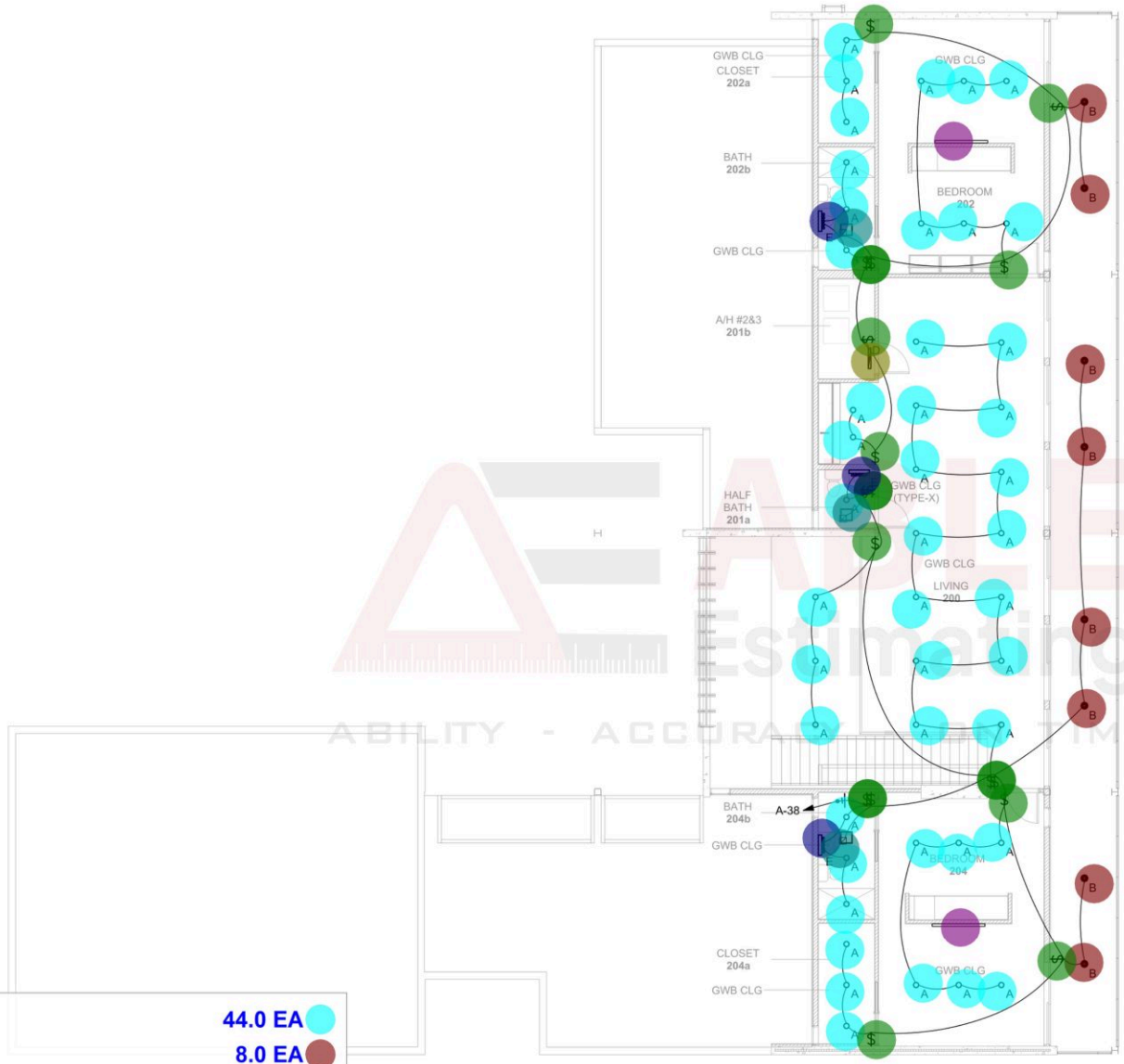
SCALE: 1/8"=1'-0"

A	73.0 EA
C	10.0 EA
B	4.0 EA
Single Pole Switch	28.0 EA
3 Way Switch	1.0 EA
E	5.0 EA
20"X20" rECCESSED...	3.0 EA
8' WIDE sTRIP IIGHT	1.0 EA

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ABILITY - ACCURACY - ON TIME

SHEET
E200

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A	44.0 EA
B	8.0 EA
Single Pole Switch	17.0 EA
D	1.0 EA
E	3.0 EA
8' WIDE sTRIP lIGHT	2.0 EA
20"X20" rECCESSED...	3.0 EA

1 SECOND FLOOR LIGHTING PLAN

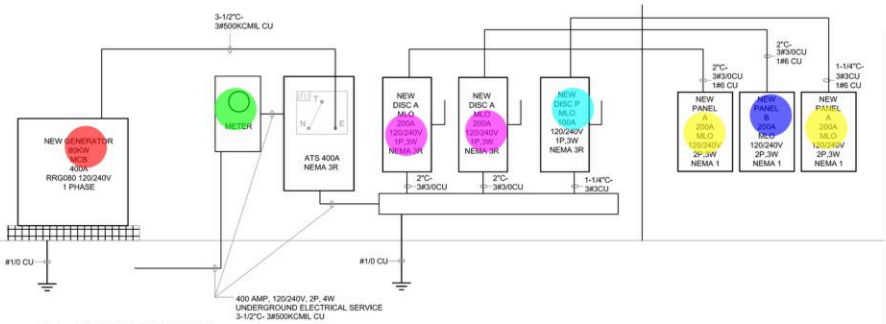
SCALE: 1/8"=1'-0"

SHEET
E201

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ABILITY - ACCURACY - ON TIME

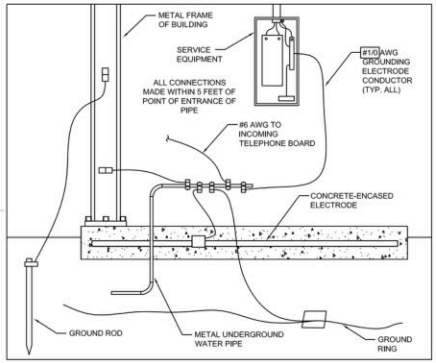
RISER GENERAL NOTES:

1. ALL GROUND ELECTRODES, CONDUCTORS AND COMPLETE GROUNDING SYSTEM MUST BE DONE IN COMPLIANCE WITH NEC STD #250 AND AHJ.
2. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH THE WORK BEFORE BIDDING ON THIS PROJECT.
3. FAULT CURRENT WAS CALCULATED AT 14080 AMPS FOR A LOCAL TRANSFORMER. VERIFY WITH LOCAL ELECTRIC COMPANY AND NOTIFY ENGINEER IF DIFFERENT.
4. ALL EXTERIOR EQUIPMENT MUST BE RATED NEMA 3R OR BETTER.
5. CONSULT AND WORK WITH LOCAL ELECTRIC FOR FIELD LOCATIONS. NOTIFY ENGINEER WITH ANY CHANGES.



1 RISER DIAGRAM

SCALE: N.T.S.



2 GROUNDING DETAIL

SCALE: N.T.S.

A

ROOM
MOUNTING RECESSED
FED FROM DISC A
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	20/1	MICROWAVE	1.2		2	20/1	LAUNDRY	1.5	
3	20/1	SMALL APPL		1.5	4	30/2	WATER HEATER		2.25
5	60/2	AHU-1	6.72		6	|		2.25	
7	|			6.72	8	20/1	RECEPTACLE		0.18
9	20/1	REF	1		10	20/1	GM	1.18	
11	20/1	GB		0.6	12	20/1	GM		1.18
13	20/1	DISWASHER	1.2		14	20/1	RECEPTACLE	0	
15	20/1	RECEPTACLE		0	16	20/1	REF		1.5
17	20/1	REF	1		18	20/1	RECEPTACLE	0	
19	20/1	RECEPTACLE, SMALL APPL		1.5	20	20/1	RECEPTACLE		0
21	20/1	RECEPTACLE	0		22	20/1	RECEPTACLE	0	
23	20/1	RECEPTACLE		0	24	20/1	RECEPTACLE		0
25	20/1	RECEPTACLE	0		26	20/1	RECEPTACLE	0	
27	20/1	RECEPTACLE		0	28	20/1	EF-1, LIGHTING		0.384
29	20/1	RECEPTACLE	0		30	20/1	LIGHTING	0	
31	20/1	RECEPTACLE		0	32	20/1	LIGHTING		0
33	20/1	SPACE	0		34	20/1	RECEPTACLE	0	
35	20/1	SPACE		0	36	20/1	RECEPTACLE		0
37	50/2	CU-1	3.86		38	20/1	EF-1, LIGHTING	0.576	
39	|			3.86	40	20/1	REF		0.6
							TOTAL CONNECTED KVA BY PHASE	20.5	20.3

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
DWELLING UNIT LIGHTING	19.3	8.71	(35%>3, 25%>120)	APPLIANCE	10.1	7.58	(75%)
DWELLING UNIT	13.3	4.441 SF	(3 VA/SF)	LARGEST MOTOR	1	0.25	(25%)
SMALL-APPLIANCE	4.5			MOTORS	0.96	0.96	(100%)
LAUNDRY	1.5			RECEPTACLES	2.54	2.54	(50%>10)
				HEATING	13.4	13.4	(100%)
				COOLING	7.73	0	(0%)
				TOTAL LOAD		33.5	
				BALANCED LOAD		139 A	

B

ROOM
MOUNTING RECESSED
FED FROM DISC B
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	20/1	RECEPTACLE	0.18		2	60/2	AHU-2	6.72	
3	50/2	CU-2		3.86	4	|			6.72
5	|		3.86		6	60/2	AHU-3	6.72	
7	50/2	CU-3		3.86	8	|			6.72
9	|		3.86		10	20/1	RECEPTACLE	0.36	
11	50/2	OVEN		3.9	12	20/1	SPACE		0
13	|		3.9		14	20/1	SPACE	0	
15	30/2	DRYER		2.5	16	20/1	SPACE		0
17	|		2.5		18	20/1	SPACE	0	
19	20/1	SPACE		0	20	20/1	SPACE		0
21	20/1	SPACE	0		22	20/1	SPACE	0	
23	20/1	SPACE		0	24	20/1	SPACE		0
25	20/1	SPACE	0		26	20/1	SPACE	0	
27	20/1	SPACE		0	28	20/1	SPACE		0
29	20/1	SPACE	0		30	20/1	SPACE	0	
31	20/1	SPACE		0	32	20/1	SPACE		0
33	20/1	SPACE	0		34	20/1	SPACE	0	
35	20/1	SPACE		0	36	20/1	SPACE		0
37	20/1	SPACE	0		38	20/1	SPACE	0	
39	20/1	SPACE		0	40	20/1	SPACE		0
							TOTAL CONNECTED KVA BY PHASE	28.1	27.6

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
DWELLING UNIT LIGHTING	7.96	4.74	(35%>3, 25%>120)	ELECTRIC DRYER	5	5	(100%)
DWELLING UNIT	7.96	2,654 SF	(3 VA/SF)	RECEPTACLES	0.54	0.54	(50%>10)
APPLIANCE	7.8	7.8	(100%)	HEATING	26.9	26.9	(100%)
				COOLING	15.5	0	(0%)
				TOTAL LOAD		45	
				BALANCED LOAD		187 A	

WIREWAY

ROOM
MOUNTING FLUSH
FED FROM ATS
NOTE

VOLTS 240/120V 2P 3W

AIC
LUGS STANDARD

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	FEEDER RACEWAY AND CONDUCTORS
1	200/2	FUSED DISCONNECT DISC A	20.5	20.3	2"C,2#3/0,#3/0N,#6G
2	200/2	FUSED DISCONNECT DISC B	28.1	27.6	2"C,2#3/0,#3/0N,#6G
3	100/2	FUSED DISCONNECT DISC P	2.5	2.5	1-1/4"C,2#3,#3N,#6G
		TOTAL CONNECTED KVA BY PHASE	51.1	50.3	

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
DWELLING UNIT LIGHTING	27.3	11.5	(35%>3, 25%>120)	ELECTRIC DRYER	5	5	(100%)
DWELLING UNIT	21.3	7,095 SF	(3 VA/SF)	LARGEST MOTOR	5	1.25	(25%)
SMALL-APPLIANCE	4.5			MOTORS	0.96	0.96	(100%)
LAUNDRY	1.5			RECEPTACLES	3.08	3.08	(50%>10)
						40.3	(100%)
						0	(0%)
						79.3	
						330 A	

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER			BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	LENGTH	MAX VOLTAGE DROP	WIRE SIZE	
GEN	-	-	-	-	-	0%
ATS	0.49% / 0.11%	#500kcmil / #500kcmil	41' / 9'-4"	-	-	0.49%
WIREWAY	0.54%	#500kcmil	4'-4"	-	-	0.54%
DISC A	0.54%	#3/0		-	-	0.54%
A	0.56%	#3/0	2'	3.42% (CKT 3)	#12	3.99%
DISC B	0.56%	#3/0	1'-9"	-	-	0.56%
B	0.59%	#3/0	1'-10"	2.5% (CKT 7,9)	#8	3.09%
DISC P	0.56%	#3	3'-5"	-	-	0.56%
POOL	1.2%	#3	124'	-	-	1.2%

FAULT CURRENT SCHEDULE

DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER						DIRECTLY CONNECTED MOTOR LOAD		
				FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R	FAULT	X	R
GEN	8,517		120V	8,000	0.01471	0.002942													
ATS	12,139	22,000	120V	11,621	0.009947	0.002772	UTIL / GEN	14,080 / 8,000	0.008357 / 0.01471	0.001671 / 0.002942	#500kcmil	0.039	0.027	41' / 9'-4"	0.0016	0.0011			
WIREWAY	11,925		120V	11,407	0.01012	0.002889	ATS	11,621	0.009947	0.002772	#500kcmil	0.039	0.027	4'-4"	0.0002	0.0001			
DISC A	11,925	100,000	120V	11,407	0.01012	0.002889	WIREWAY	11,407	0.01012	0.002889	#3/0	0.042	0.077		0	0			
A	11,782	22,000	120V	11,272	0.0102	0.003045	DISC A	11,407	0.01012	0.002889	#3/0	0.042	0.077	2'	0.0001	0.0002	178	0.6535	0.1634
DISC B	11,806	100,000	120V	11,292	0.01019	0.003022	WIREWAY	11,407	0.01012	0.002889	#3/0	0.042	0.077	1'-9"	0.0001	0.0001			
B	11,677	22,000	120V	11,169	0.01027	0.003166	DISC B	11,292	0.01019	0.003022	#3/0	0.042	0.077	1'-10"	0.0001	0.0001	258	0.4519	0.113
DISC P	11,459	100,000	120V	10,974	0.01028	0.003741	WIREWAY	11,407	0.01012	0.002889	#3	0.047	0.25	3'-5"	0.0002	0.0009			
POOL	3,235	22,000	120V	3,131	0.01611	0.03478	DISC P	10,974	0.01028	0.003741	#3	0.047	0.25	124'	0.0058	0.031	83	1.397	0.3493

- New generator 1.0 EA
- Meter 1.0 EA
- Panel A 200A MLO 1... 2.0 EA
- Panel B 200A MLO 1... 1.0 EA
- DISC A MLO 200 A 1... 2.0 EA
- DISC P MLO 200 A 1... 1.0 EA

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ABILITY - ACCURACY - ON TIME

SHEET
E300

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