

FIELD VERIFY ALL VENT PENETRATIONS WITH OWNER OR CONTRACTOR. SOME ALIGNMENT MIGHT BE NEEDED PENDING STRUCTURE

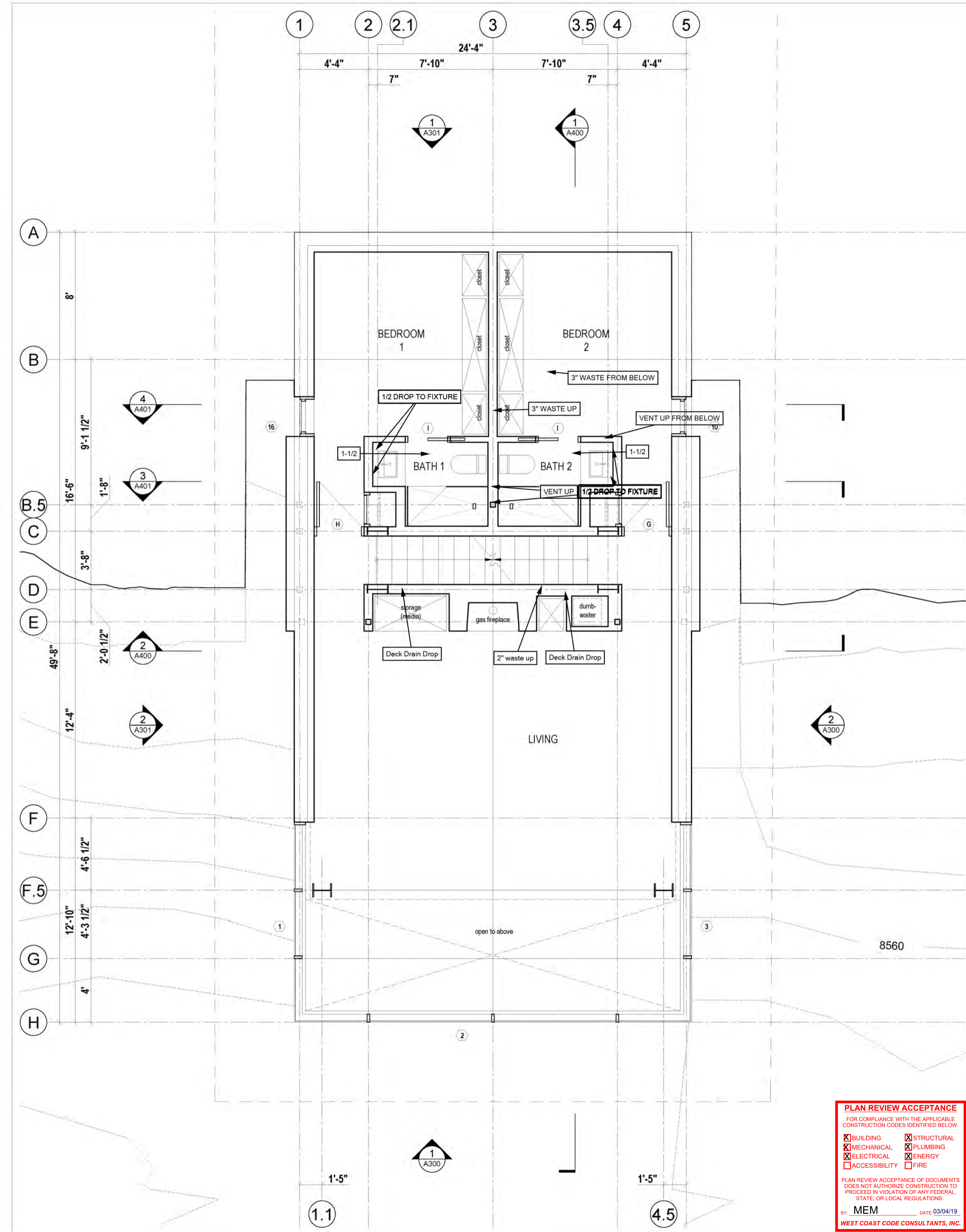
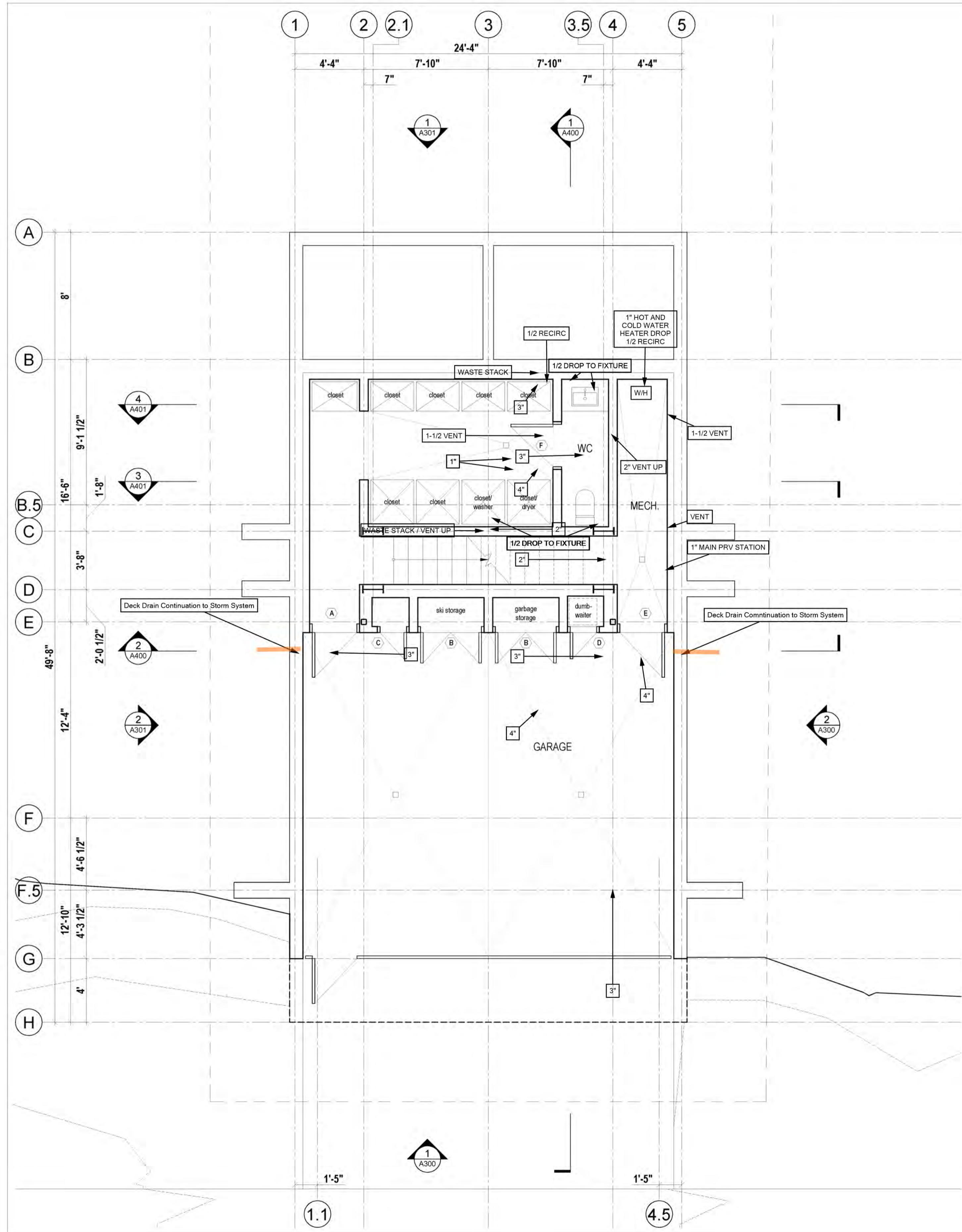
ROUTE PLUMBING TO AVOID OTHER TRADES AS WELL AS ANY FUR DOWNS

ALL PLUMBING TO BE INSTALLED PER CODE

ALL PIPING TO BE ABS OR PVC DWV AND PEX OR COPPER ON THE POTABLE

INSTALL PLUMBING IN 2X6 WALL COORDINATE WITH GENERAL IF WALL NEEDS TO BE CONVERTED FROM 2X4

ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Ground Floor Plan
Scale 1/4" = 1'-0"

1 Second Floor Plan
Scale 1/4" = 1'-0"

PLAN REVIEW ACCEPTANCE
FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL
 MECHANICAL PLUMBING
 ELECTRICAL ENERGY
 ACCESSIBILITY FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 03/04/19
WEST COAST CODE CONSULTANTS, INC.

Lot 71R
Village House

Mackay-Lyons
Sweetapple
Architects
Limited

2188 Göttingen St.
Halifax, Nova Scotia
Canada B3K 3B4

ph: (902) 429-1857
fax: (902) 429-6276

Thermal Engineering
"It's Not Just the Design"

1950 S. 900 W.
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Salt Lake City, UT 84104

No.	Description	Date

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P1.0 STORM UNDERGROUND

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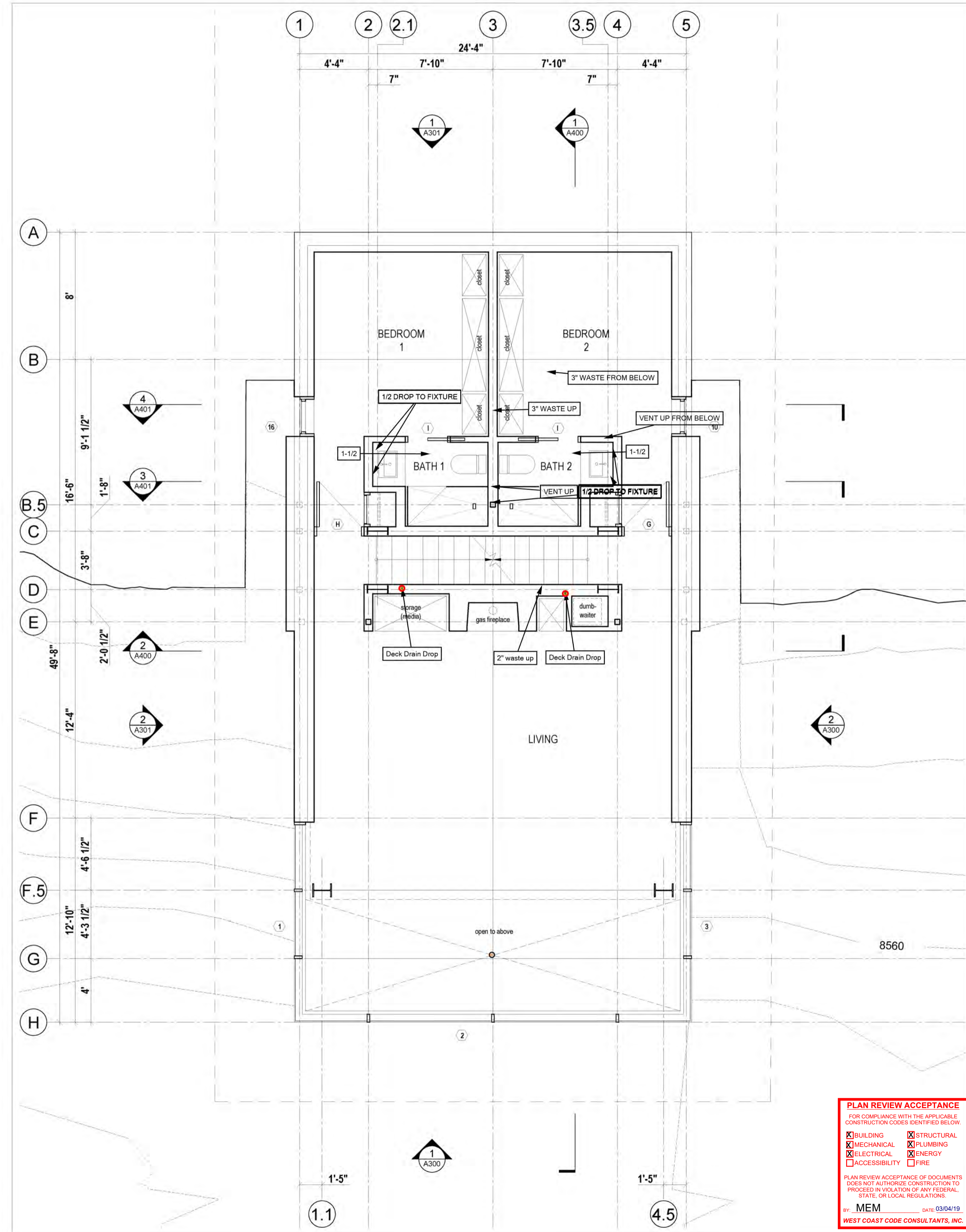
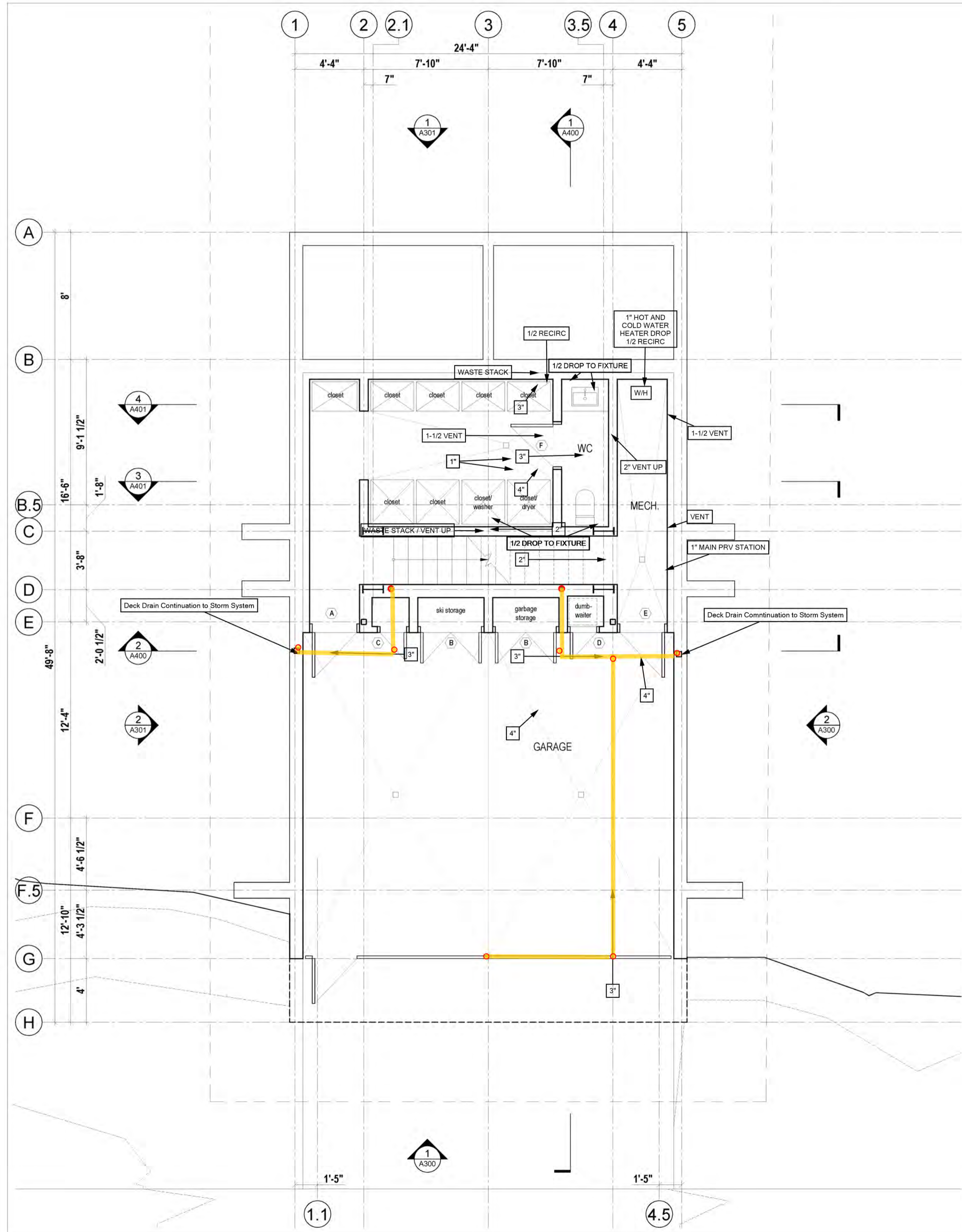
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<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
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P1-1 STORM
ABOVE GROUND

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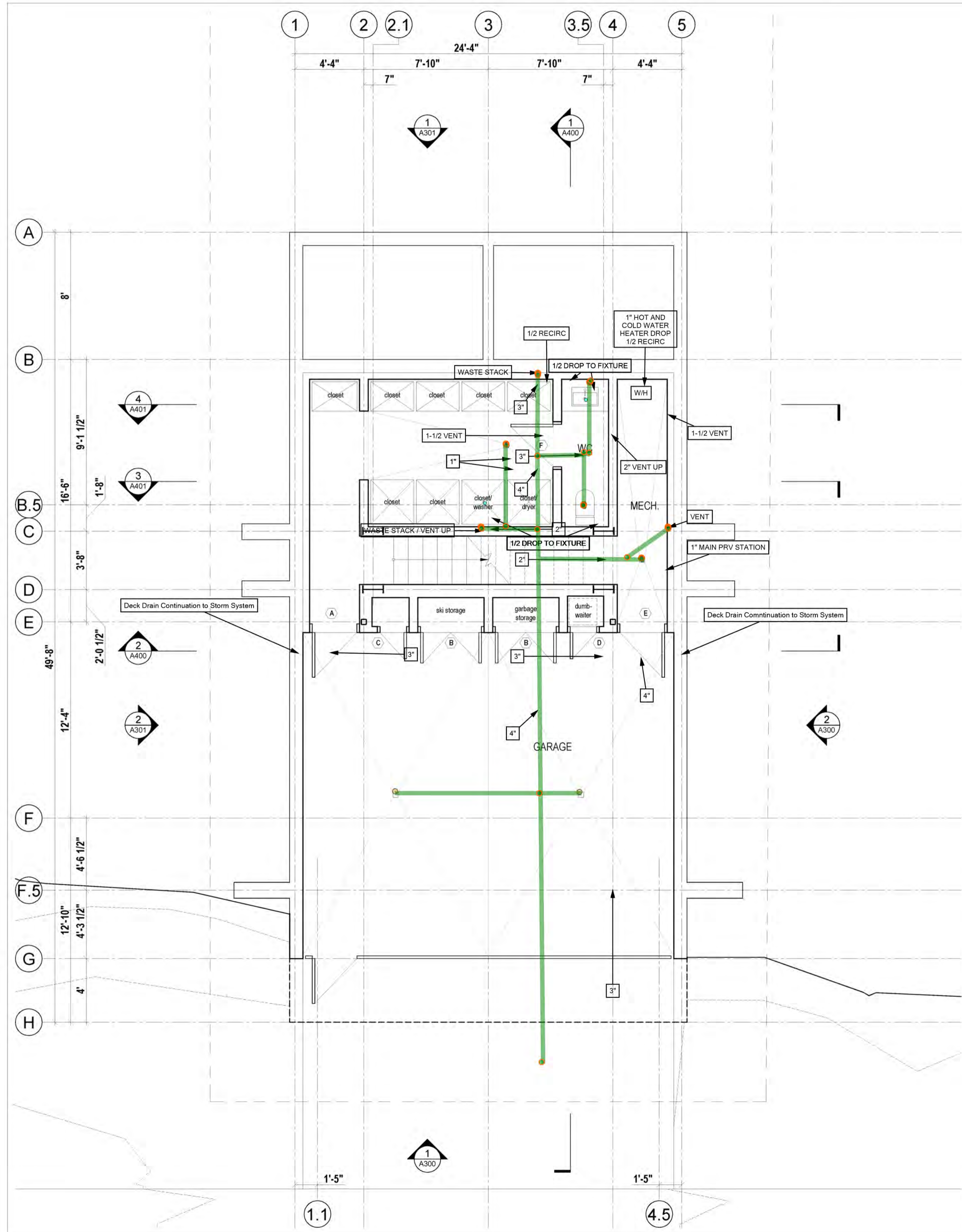
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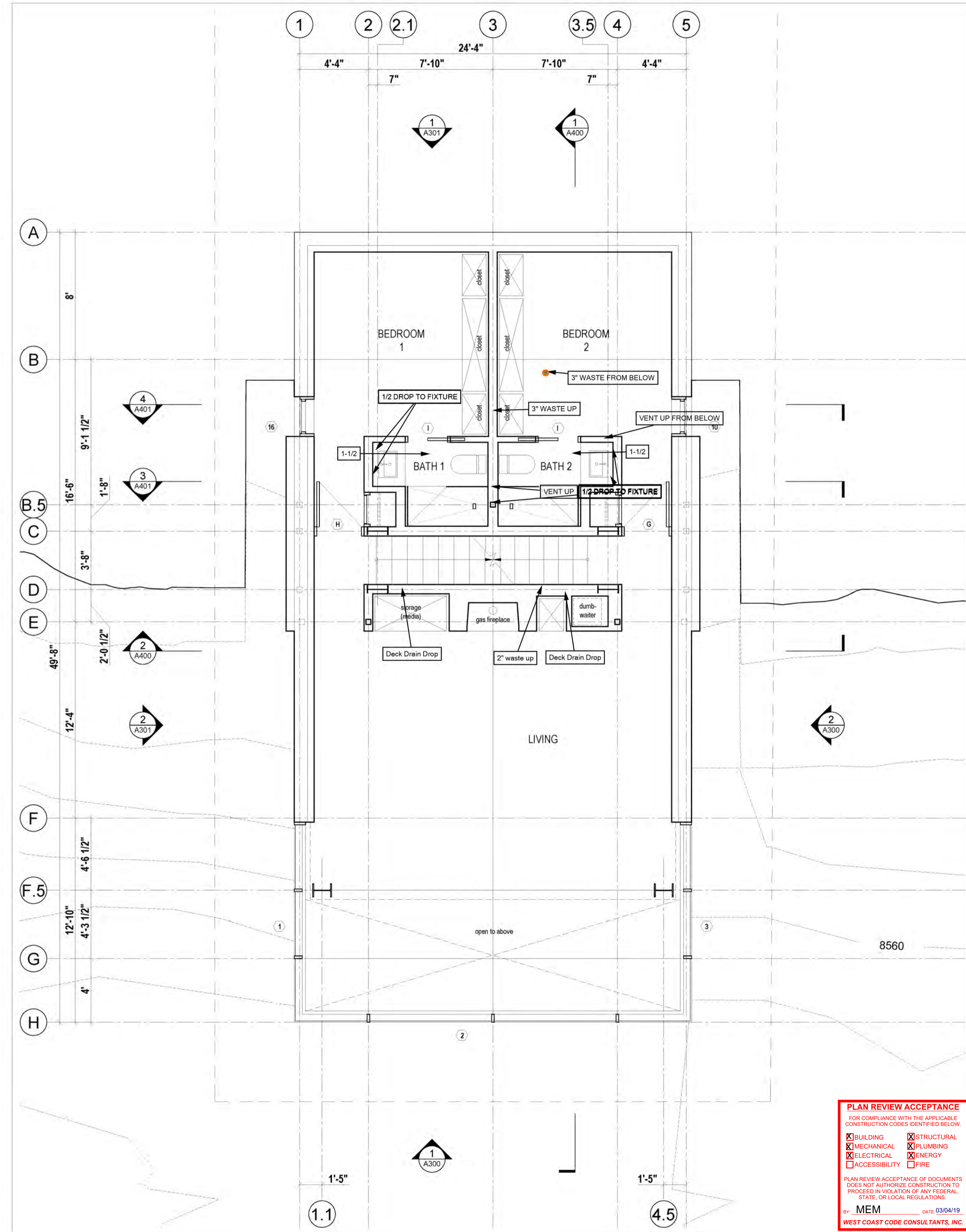
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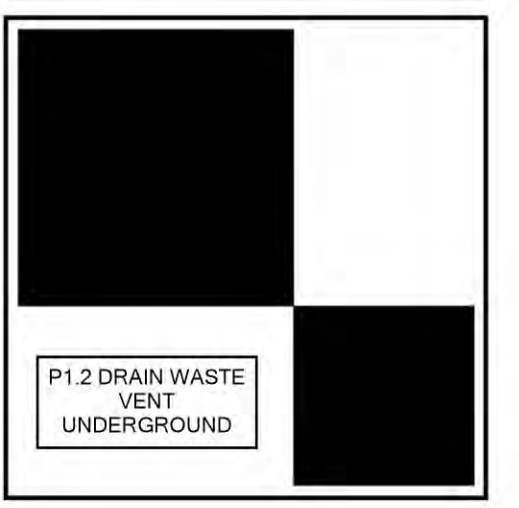
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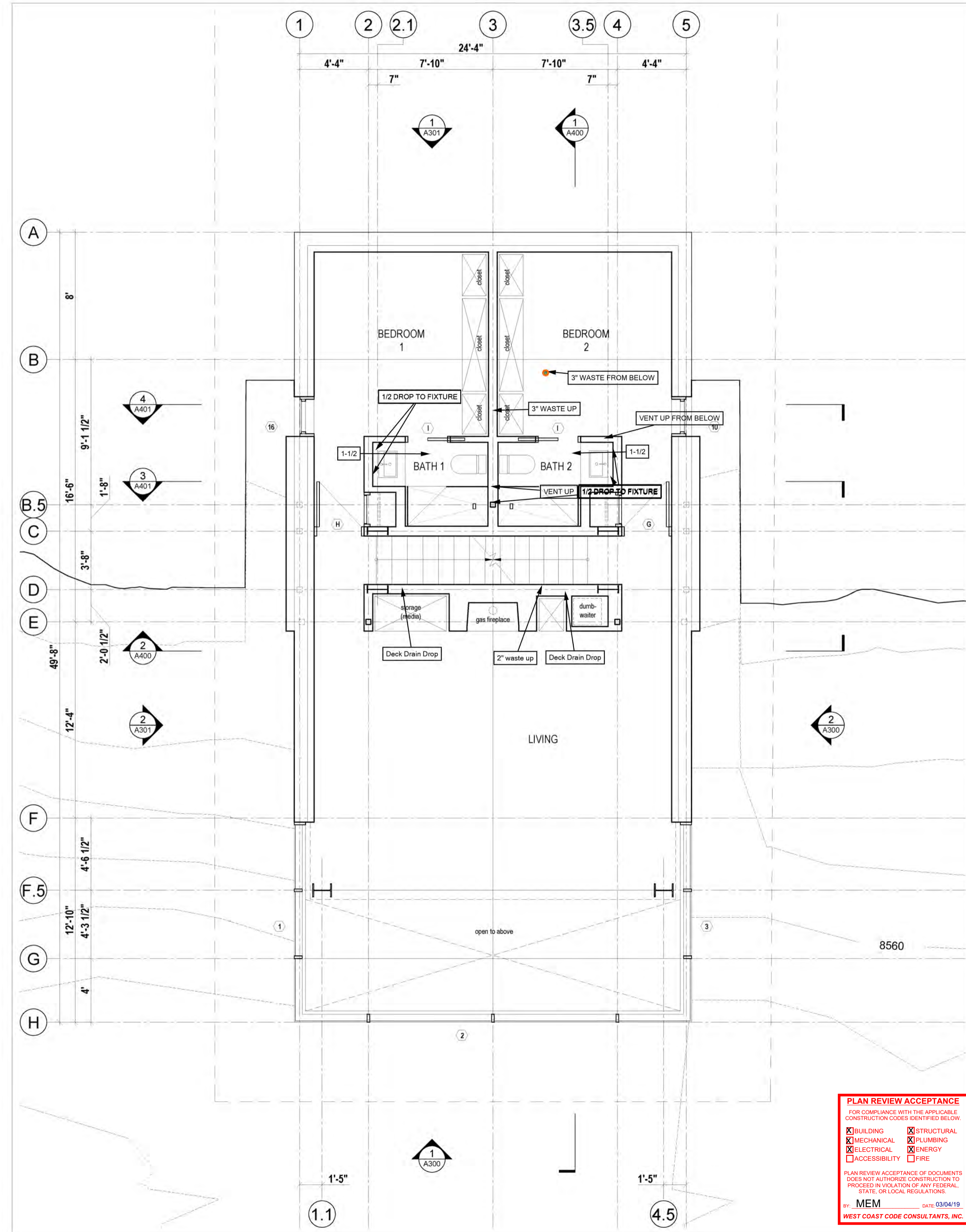
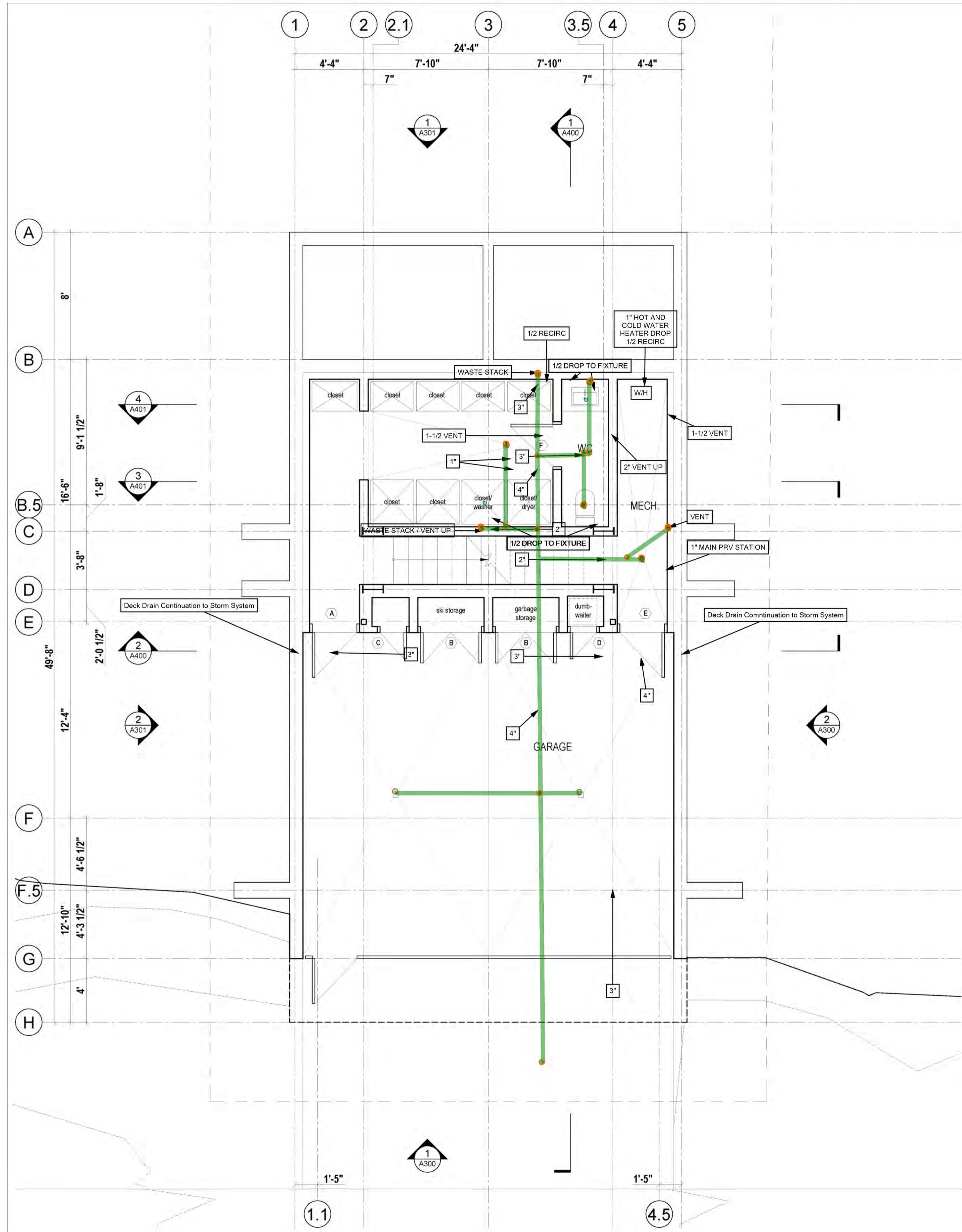
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ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Ground Floor Plan
Scale 1/4" = 1'-0"

1 Second Floor Plan
Scale 1/4" = 1'-0"

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P1.2 DRAIN WASTE VENT UNDERGROUND

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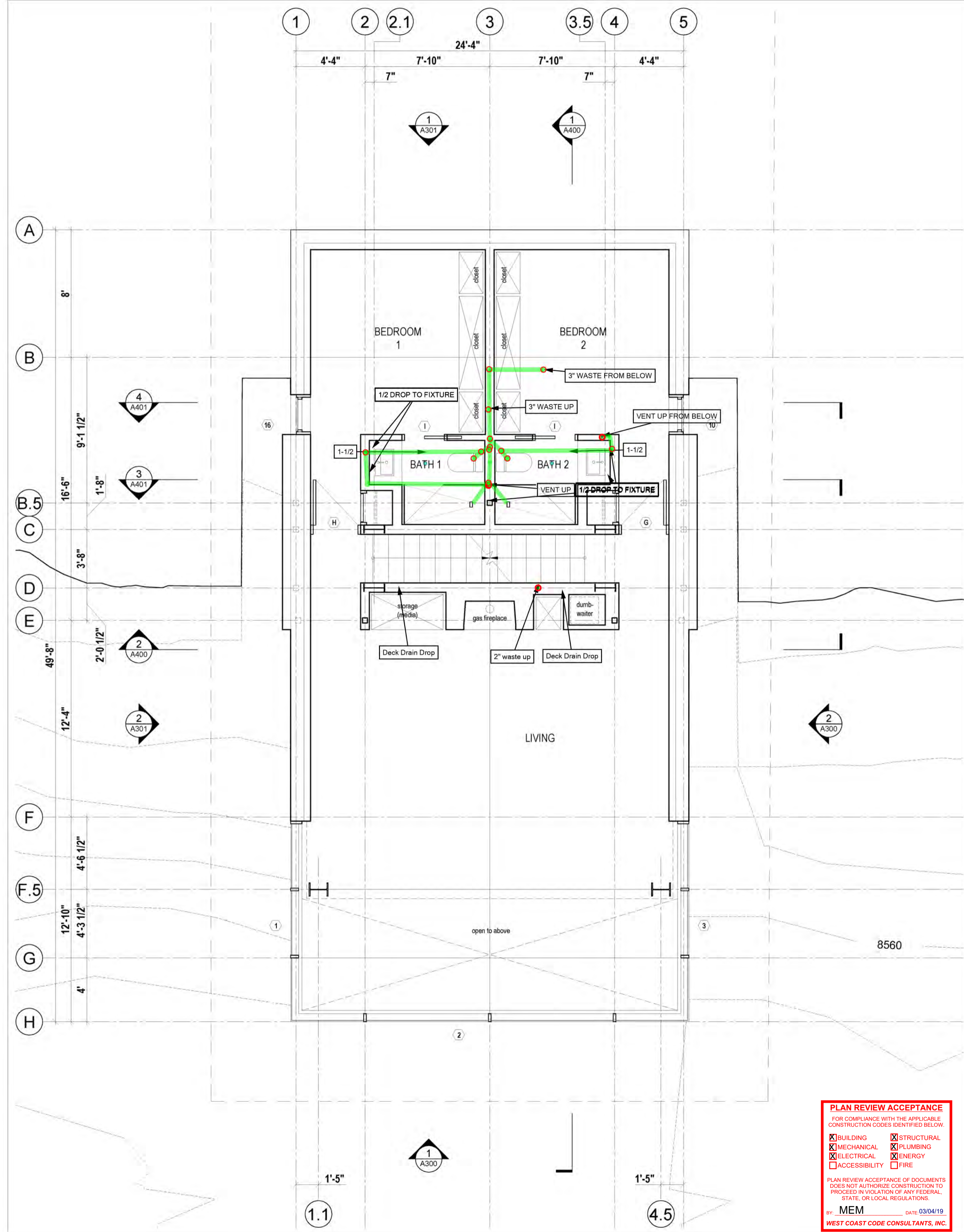
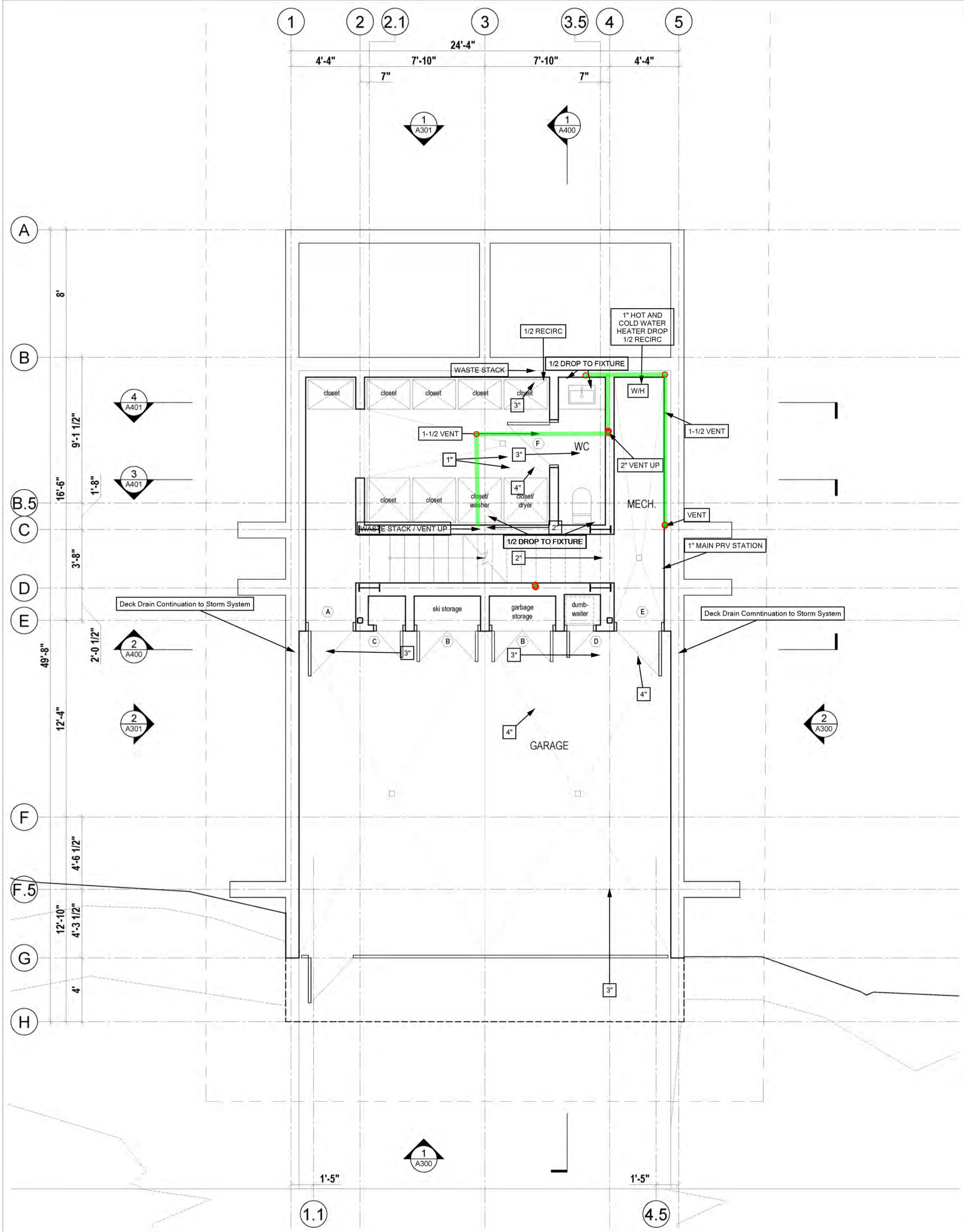
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ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 A201 Ground Floor Plan
Scale 1/4" = 1'-0"

1 A201 Second Floor Plan
Scale 1/4" = 1'-0"

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<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
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P1.3 DRAIN WASTE VENT ABOVE GRADE

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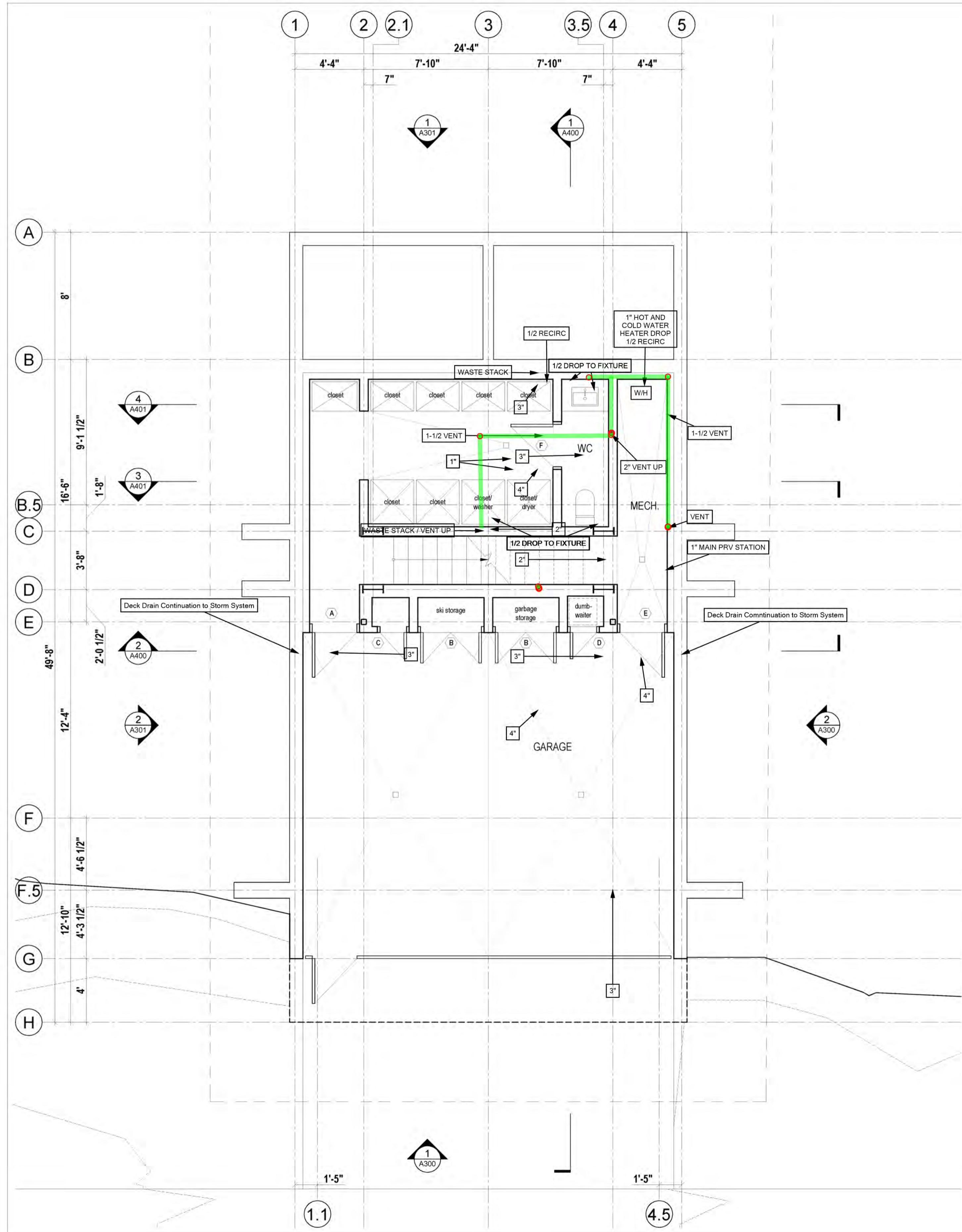
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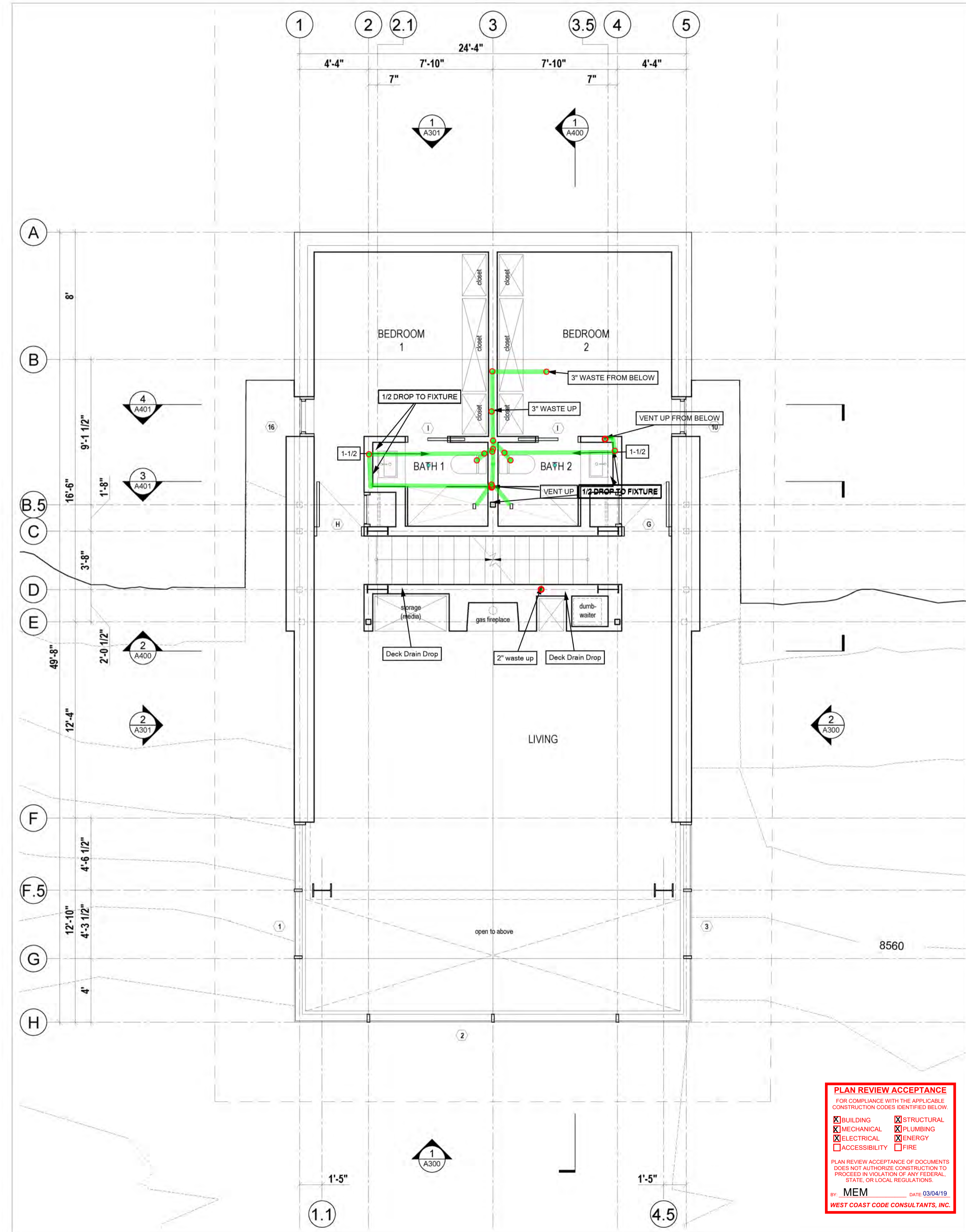
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ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Ground Floor Plan
Scale 1/4" = 1'-0"



1 Second Floor Plan
Scale 1/4" = 1'-0"

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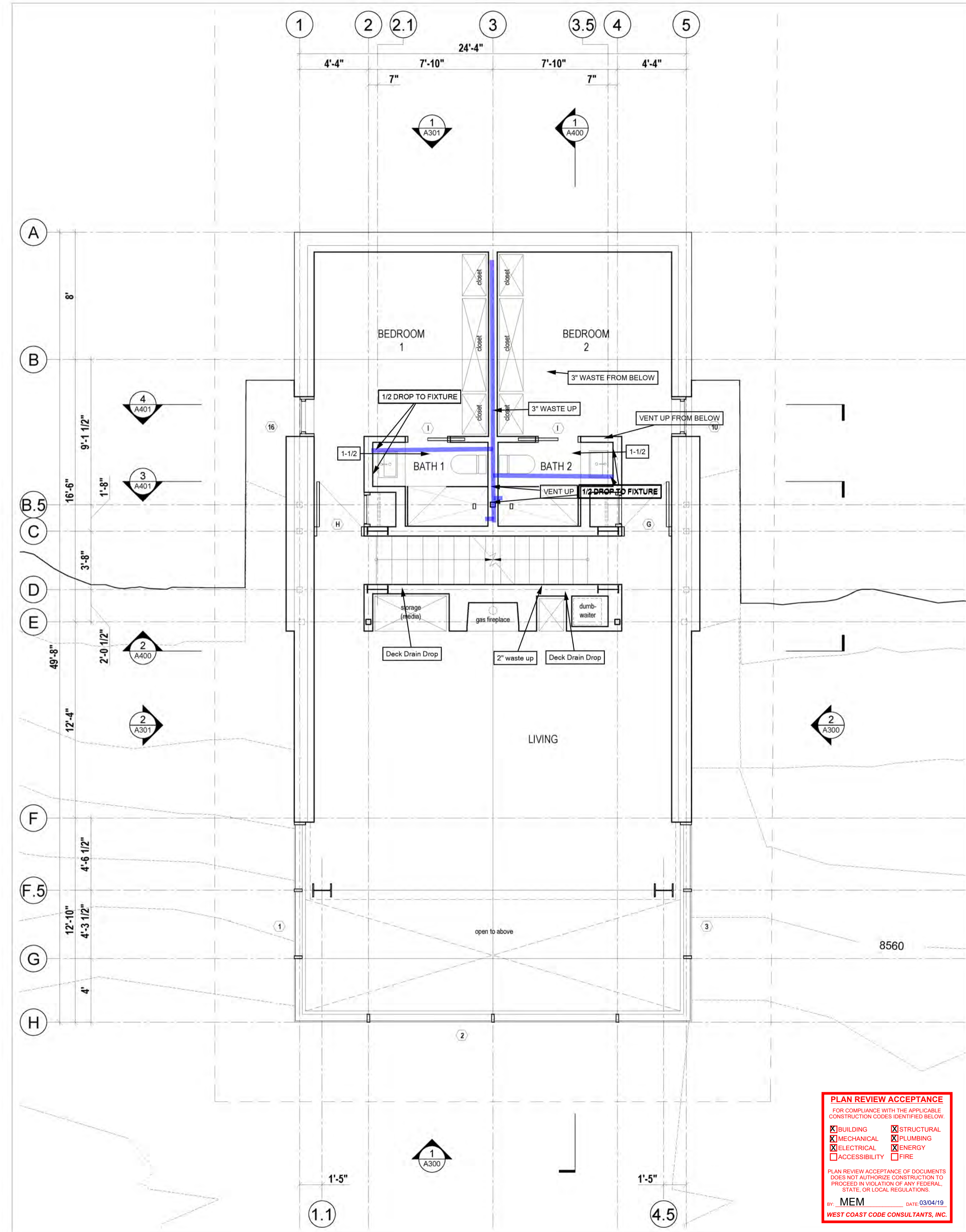
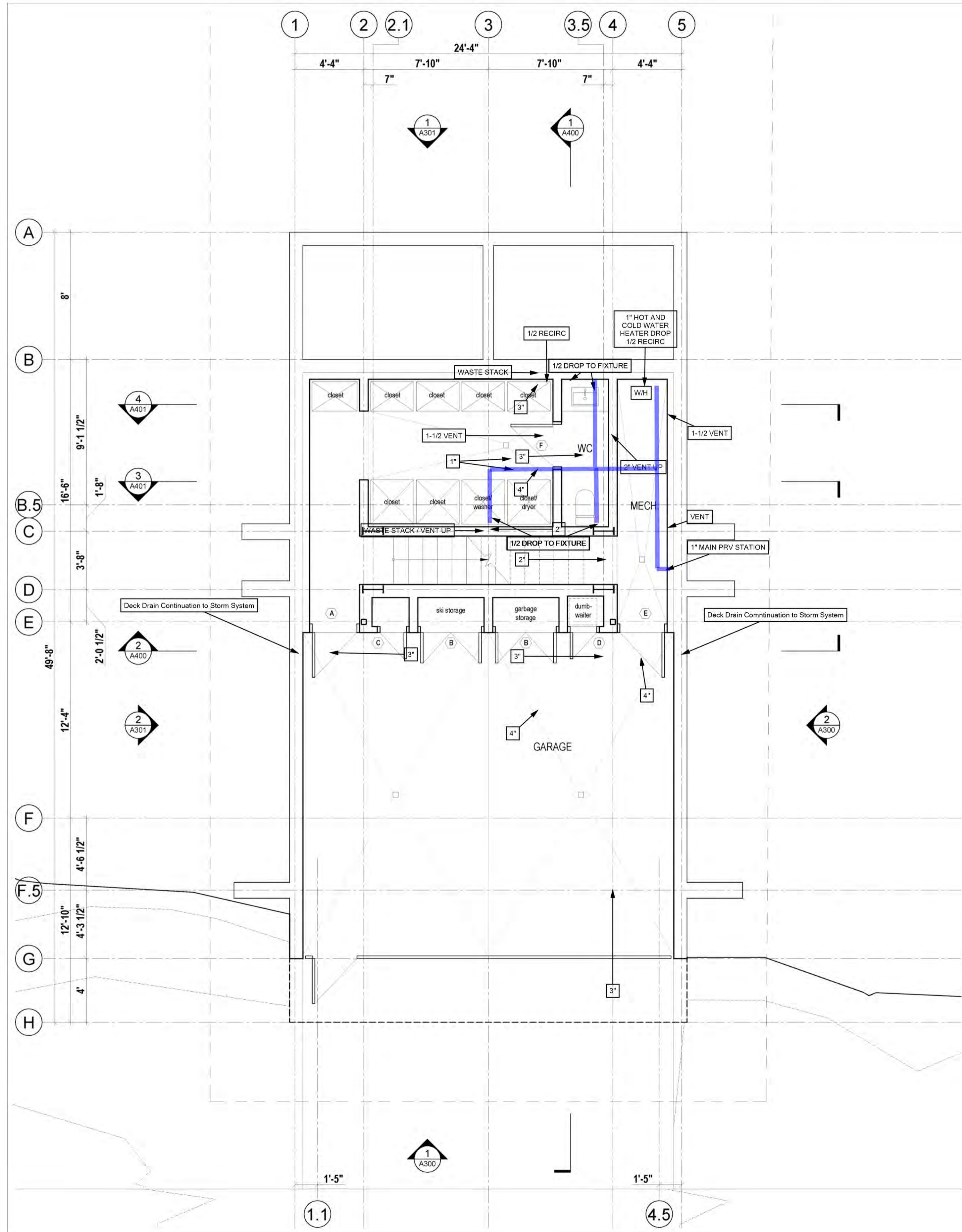
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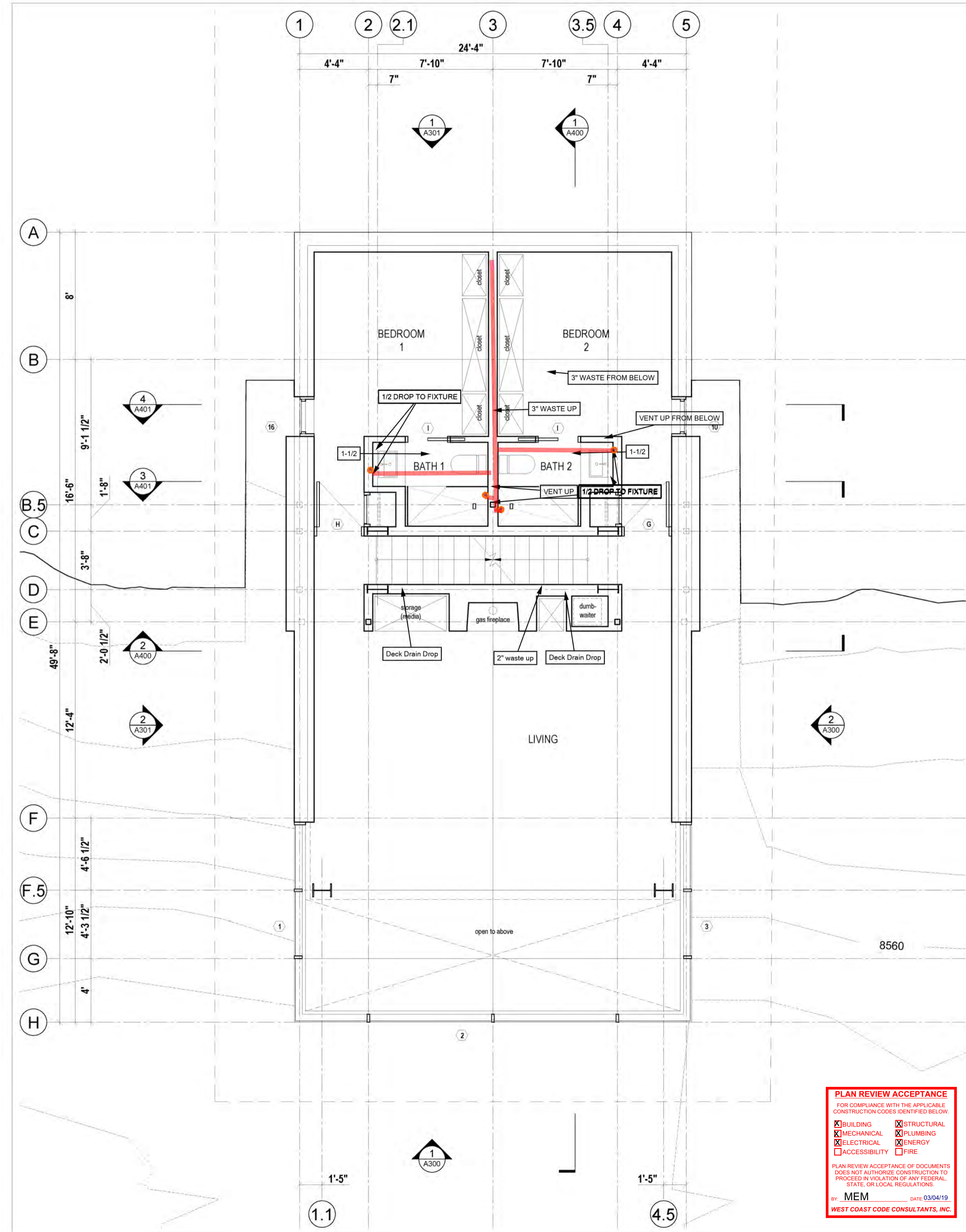
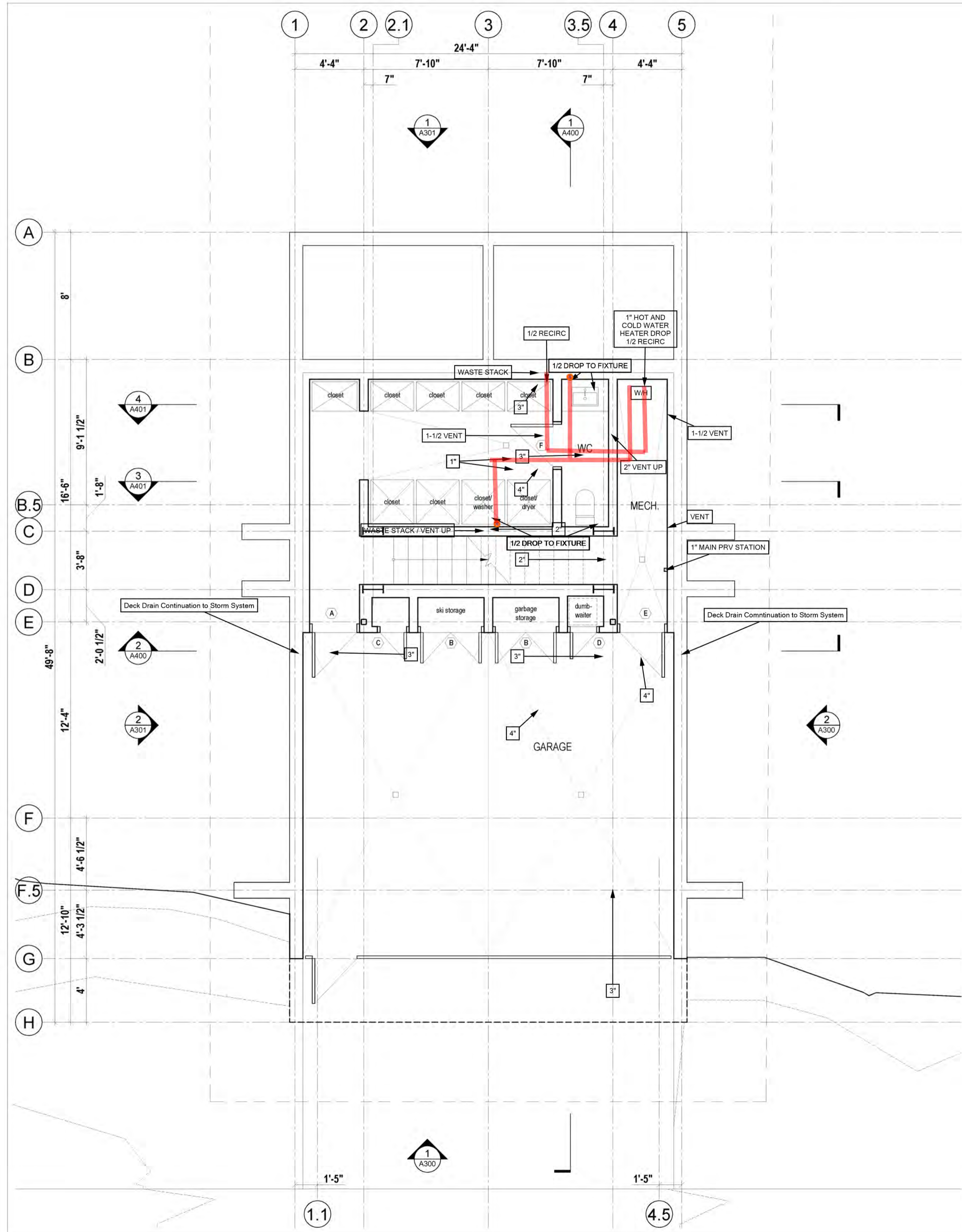
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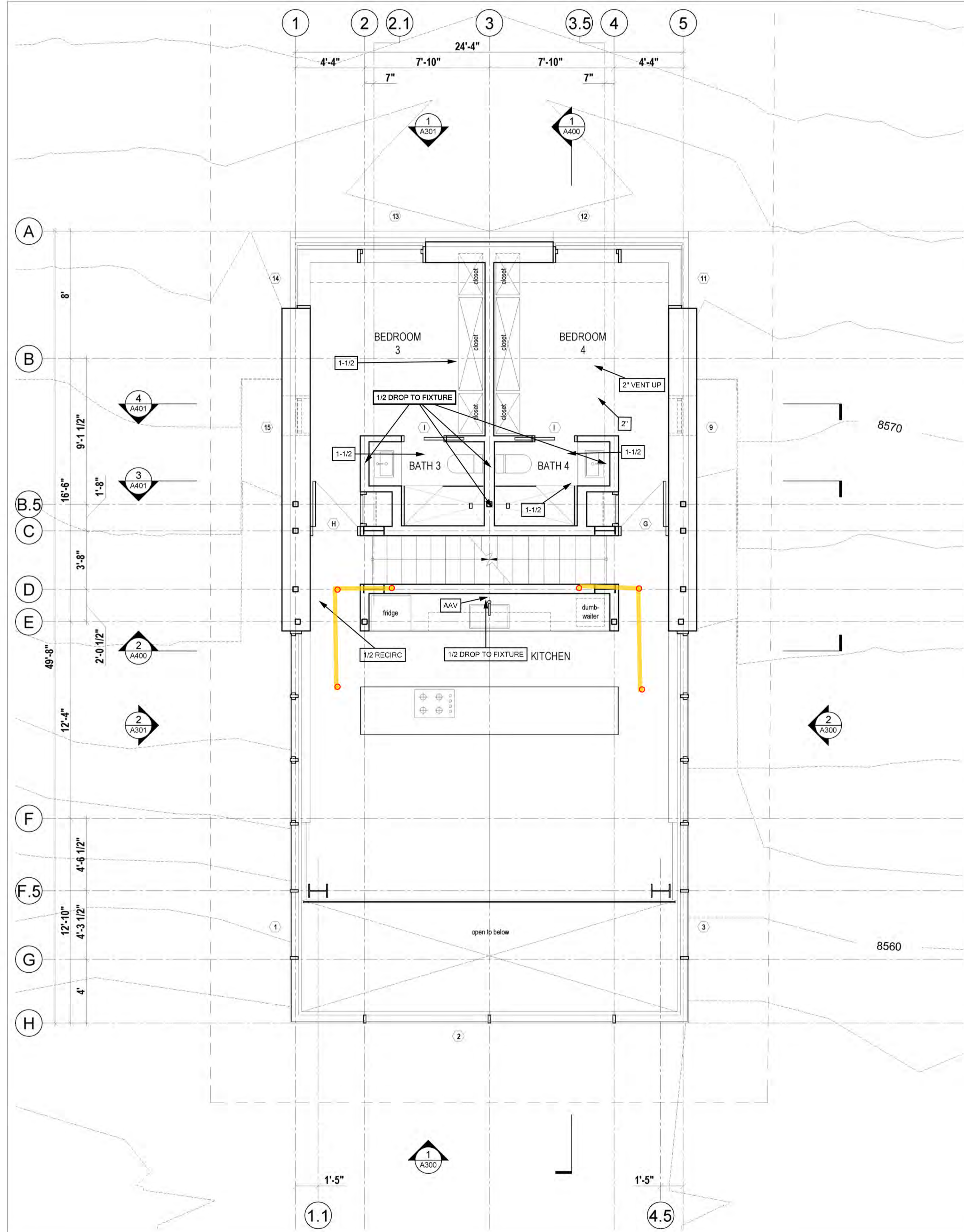
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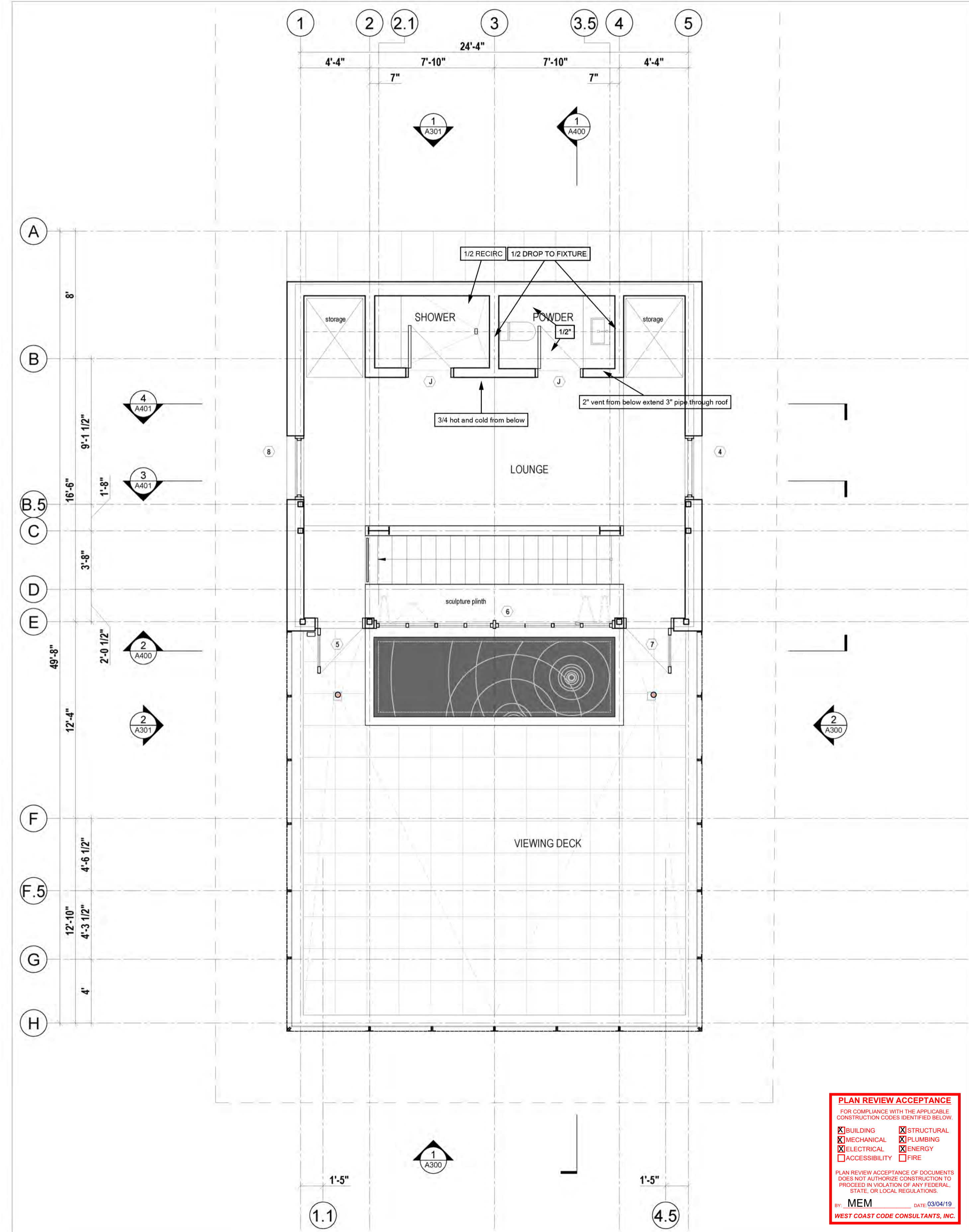
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INSTALL PLUMBING IN 2X6 WALL COORDINATE WITH GENERAL IF WALL NEEDS TO BE CONVERTED FROM 2X4

ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Third Floor Plan
Scale 1/4" = 1'-0"



1 Fourth Floor Plan
Scale 1/4" = 1'-0"

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE
 CONSTRUCTION CODES IDENTIFIED BELOW:

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input checked="" type="checkbox"/> ACCESSIBILITY	<input type="checkbox"/> FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS
 DOES NOT AUTHORIZE CONSTRUCTION TO
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 STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 03/04/19
 WEST COAST CODE CONSULTANTS, INC.

Lot 71R
 Village House

Mackay-Lyons
 Sweetapple
 Architects
 Limited

2188 Gottingen St.
 Halifax, Nova Scotia
 Canada B3K 3B4

ph: (902) 429.1867
 fax: (902) 429.6276

Thermal Engineering
"A Commitment to Precision"

1950 S. 900 W.
 Suite 12
 Salt Lake City, UT 84104

No.	Description	Date

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ENGINEER'S REQUIREMENTS AND APPROVALS:
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SHOP DRAWINGS:
 Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

P2.0 STORM
 ABOVE GRADE

FIELD VERIFY ALL VENT PENETRATIONS WITH OWNER OR CONTRACTOR. SOME ALIGNMENT MIGHT BE NEEDED PENDING STRUCTURE

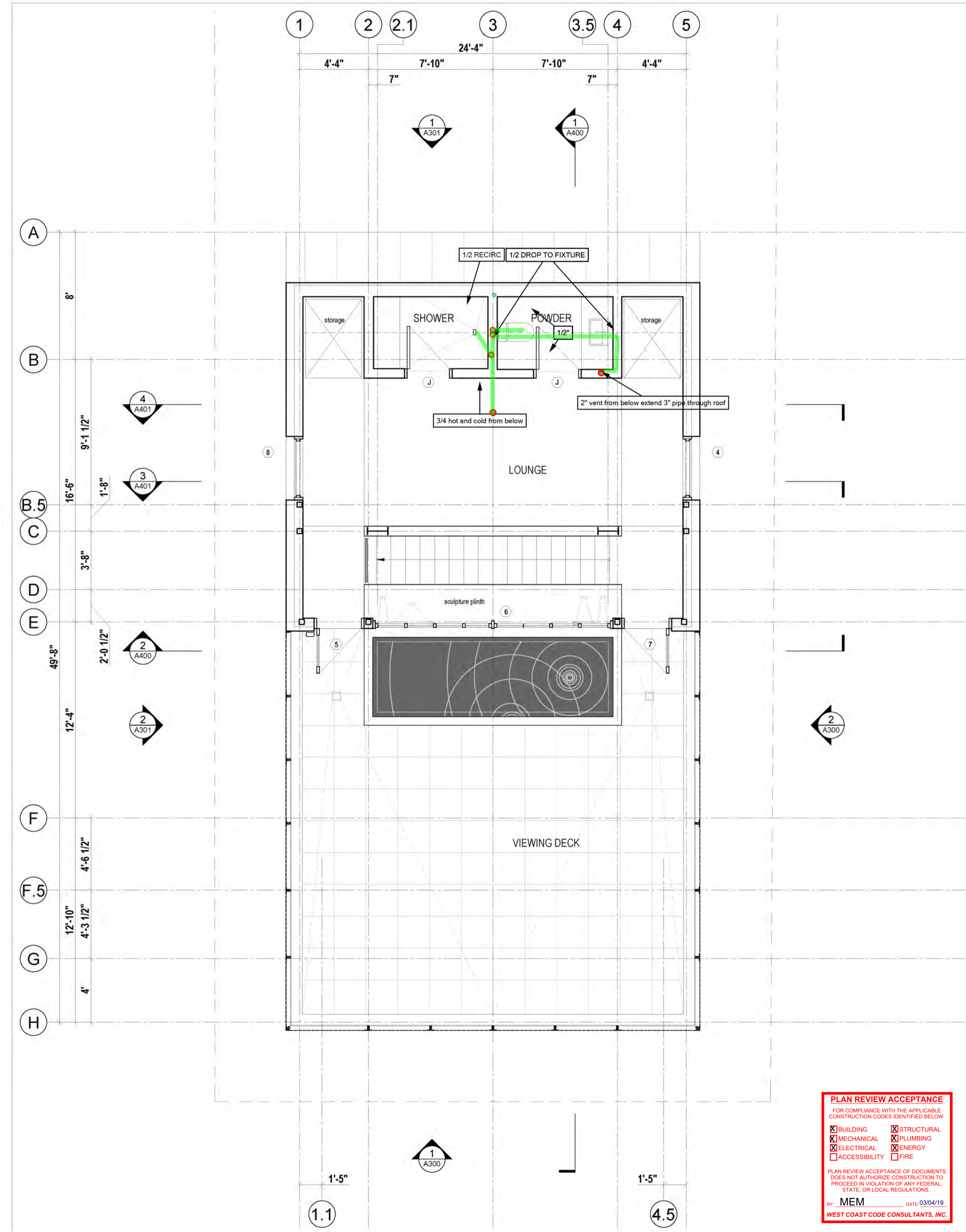
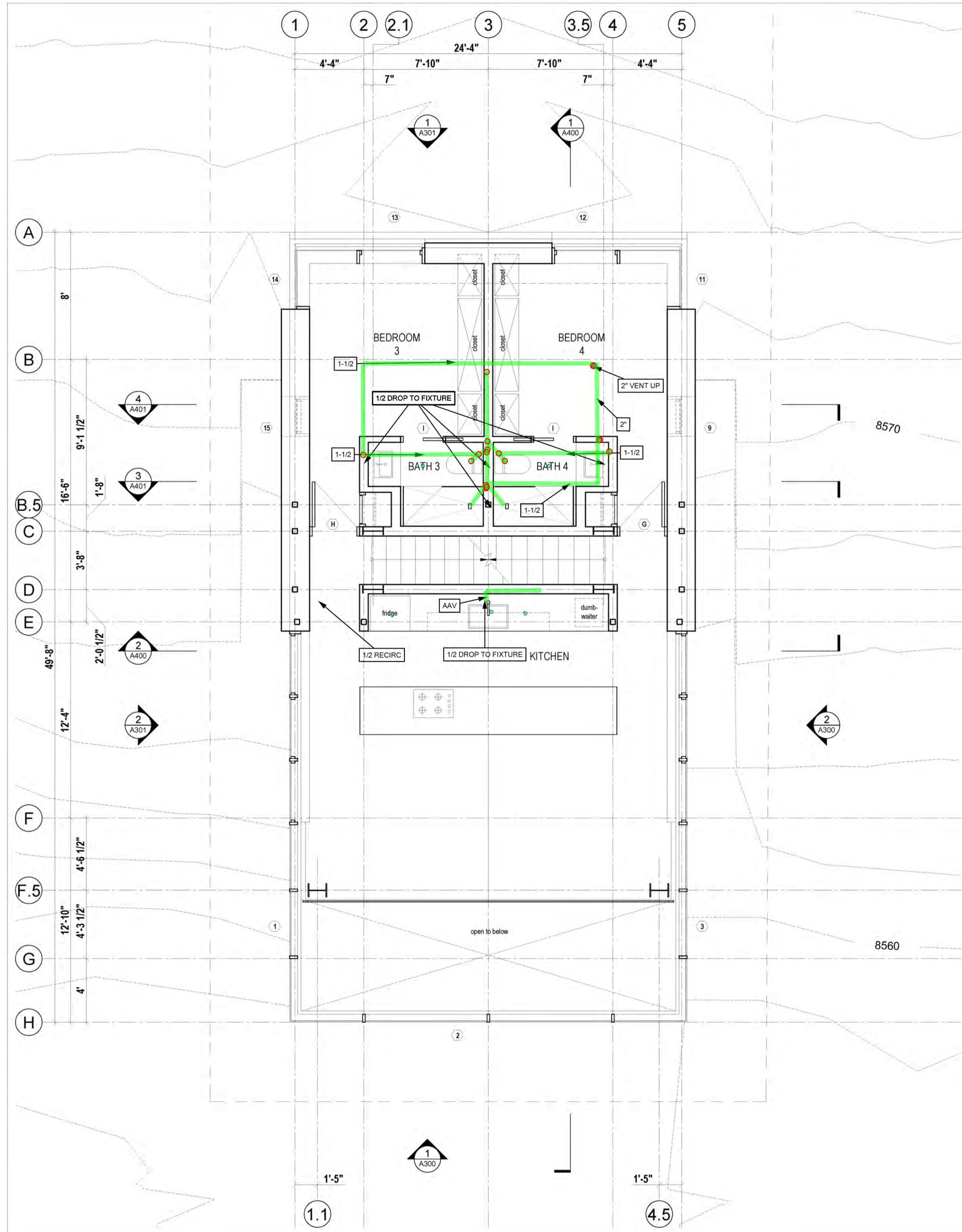
ROUTE PLUMBING TO AVOID OTHER TRADES AS WELL AS ANY FUR DOWNS

ALL PLUMBING TO BE INSTALLED PER CODE

ALL PIPING TO BE ABS OR PVC DWV AND PEX OR COPPER ON THE POTABLE

INSTALL PLUMBING IN 2X6 WALL COORDINATE WITH GENERAL IF WALL NEEDS TO BE CONVERTED FROM 2X4

ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Third Floor Plan
Scale 1/4" = 1'-0"

1 Fourth Floor Plan
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<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
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MEM DATE: 03/04/19
WEST COAST CODE CONSULTANTS, INC.

P2.1 DRAIN
WASTE VENT
ABOVE GRADE

FIELD VERIFY ALL VENT PENETRATIONS WITH OWNER OR CONTRACTOR. SOME ALIGNMENT MIGHT BE NEEDED PENDING STRUCTURE

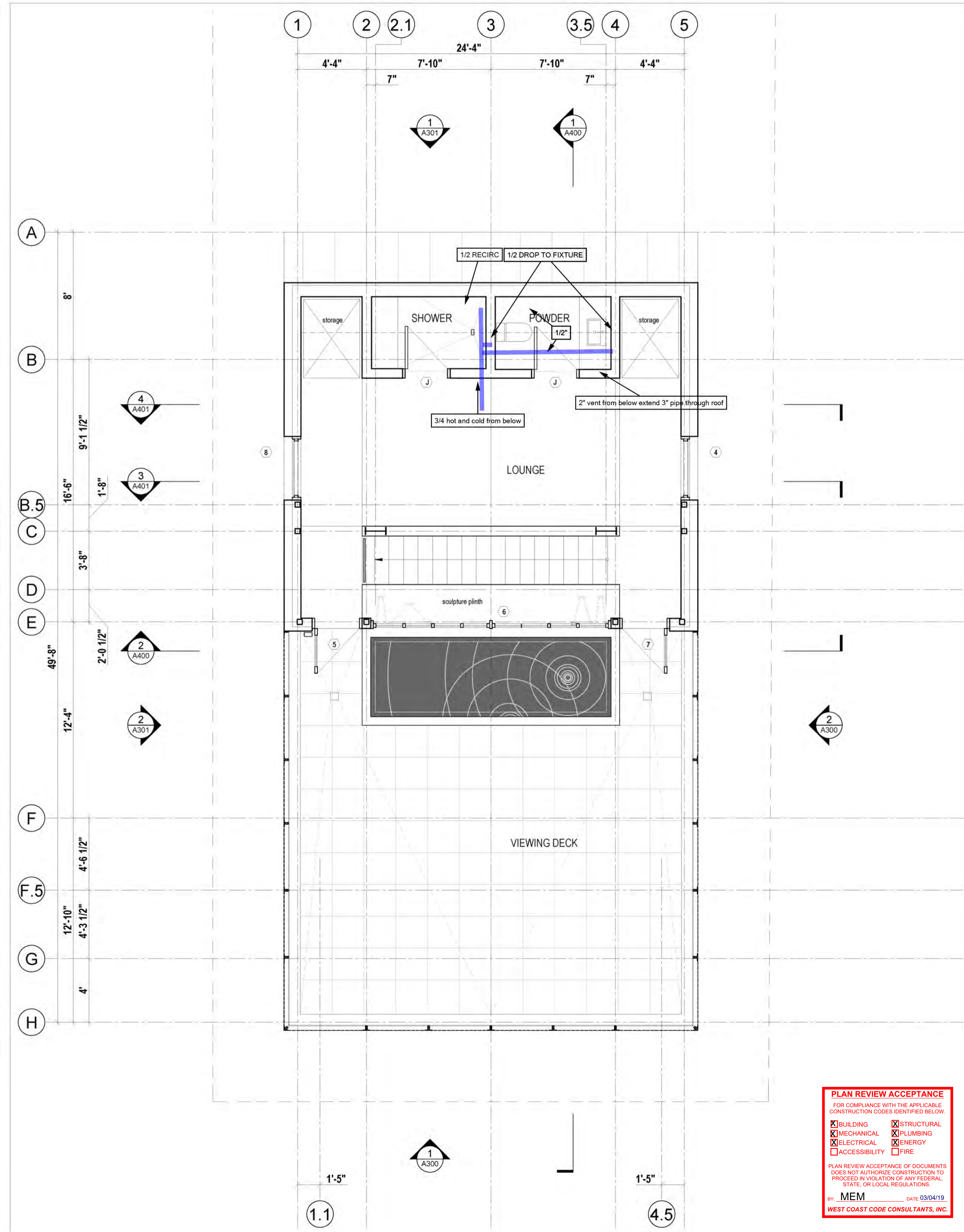
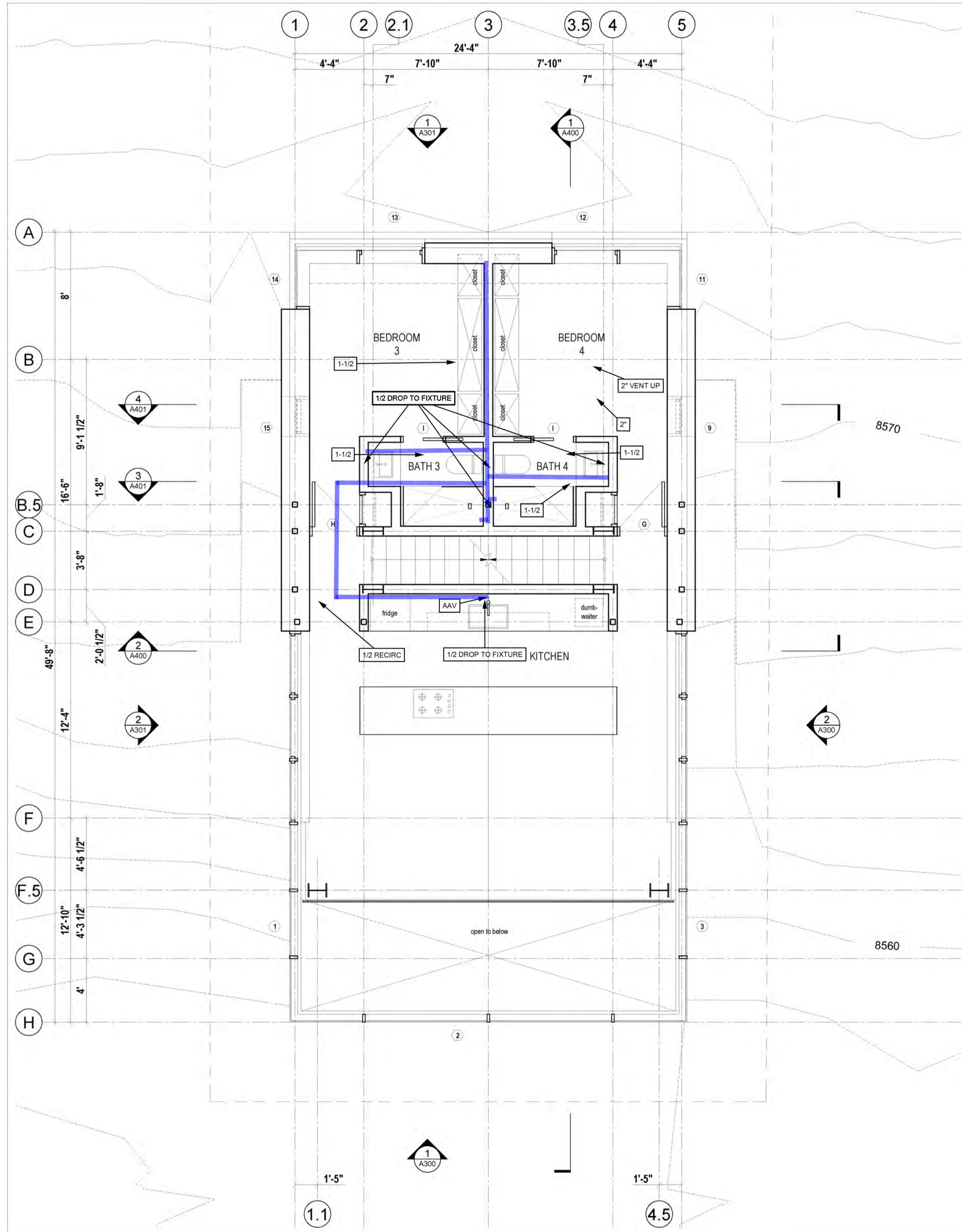
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ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Third Floor Plan
Scale 1/4" = 1'-0"

1 Fourth Floor Plan
Scale 1/4" = 1'-0"

Lot 71R
Village House

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Sweetapple
Architects
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Thermal
Engineering

1950 S. 900 W.
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Salt Lake City, UT 84104

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BY MEM DATE 03/04/19
WEST COAST CODE CONSULTANTS, INC.

P2.2 COLD WATER

FIELD VERIFY ALL VENT PENETRATIONS WITH OWNER OR CONTRACTOR. SOME ALIGNMENT MIGHT BE NEEDED PENDING STRUCTURE

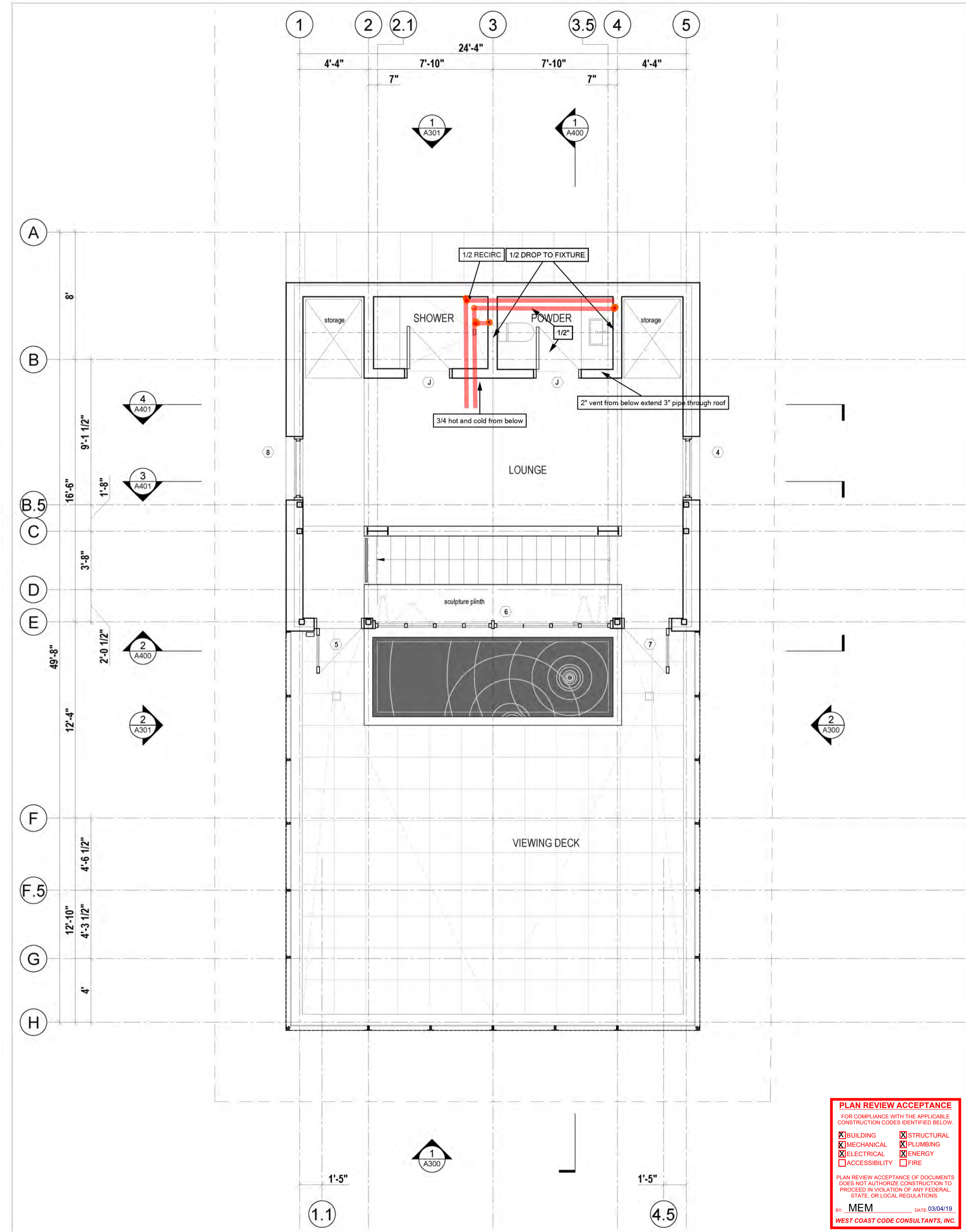
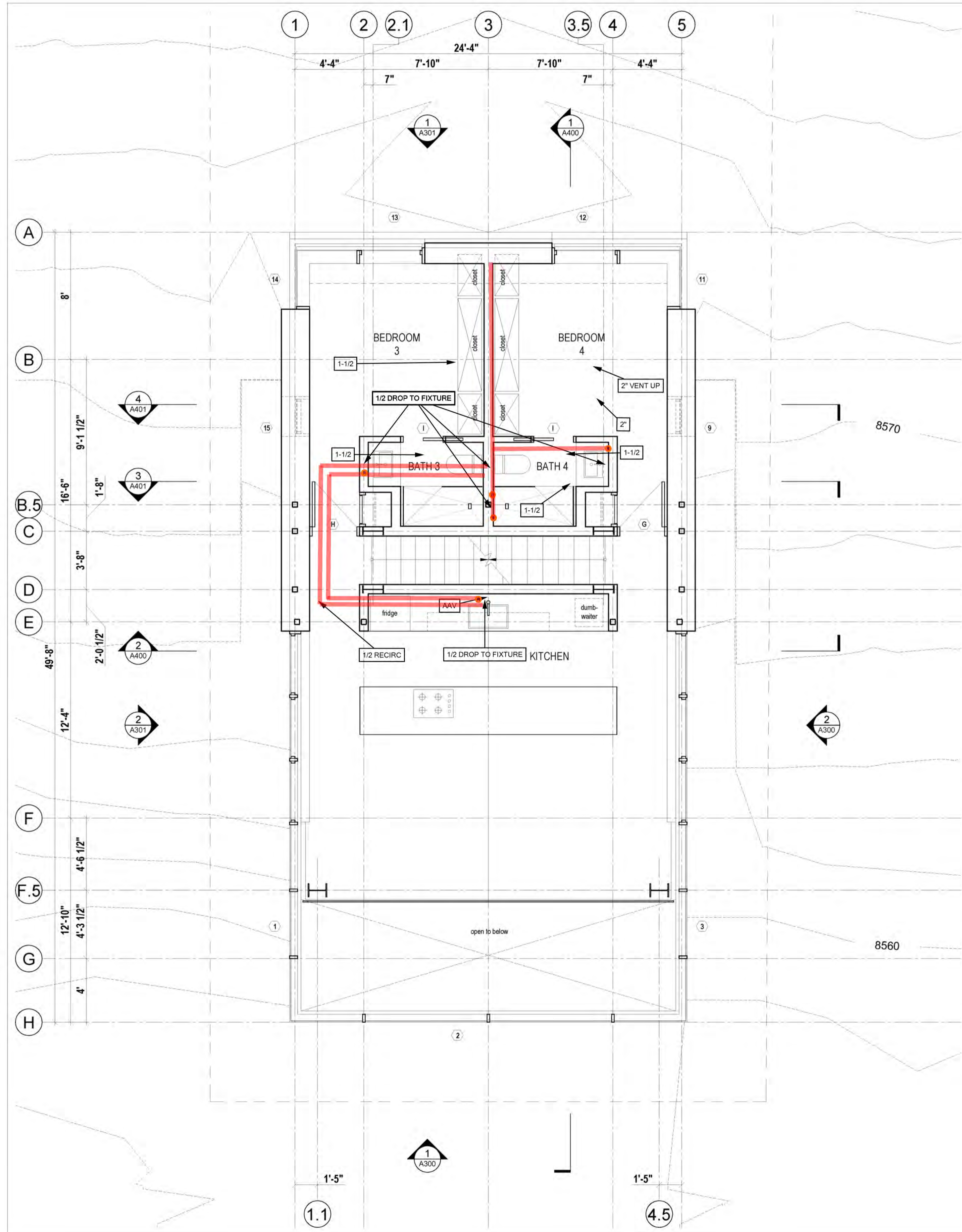
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ROUTE PLUMBING TO AVOID ADDITIONAL COSTS



2 Third Floor Plan
Scale 1/4" = 1'-0"

1 Fourth Floor Plan
Scale 1/4" = 1'-0"

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FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW

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Village House

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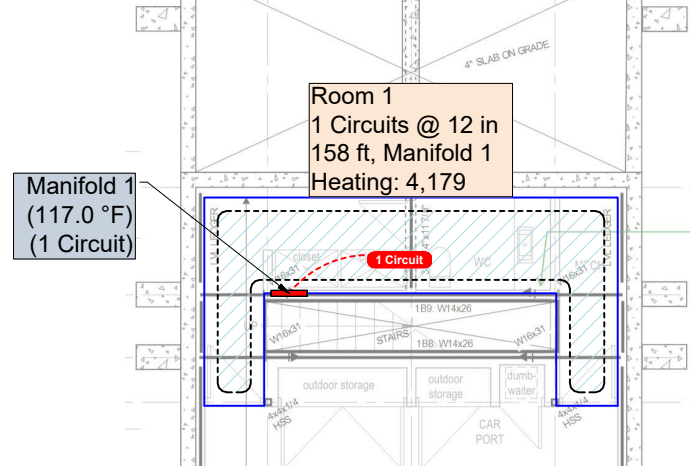
SHOP DRAWINGS:
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P2.3 HOT WATER

DISCLAIMER:
 Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.

Manifolds													
Name	Rooms	Area (ft ²)	# Circuits	Avg Length (ft)	Tubing Size	TotalFlow (USGPM)	Head Loss (ft water)	TotalLoad (Btu/hr)	S/R Type	S/R Length (ft)	S/R Head Loss (ft water)	Fluid	# Actuators
Manifold 1	Room 1	151	1	158	1/2"	0.76	4.4	7,597	hePEX 3/4"	15	0.1	100% Water	0

Rooms									
Name	Area (ft ²)	Heated Area (ft ²)	Zone	Panel Type	Total Load (Btu/hr)	Heat Loss (Btu/hr)	Heat Loss Unit (Btu/hr-ft ²)	Supplemental	Tubing in Panel (ft)
Room 1	151	151	Zone 101	Embedded Slab	7,597	4,179	27.6	0	151



Mechanical Equipment
 HTP EFT 199 Boiler
 Grundfos 15-58 Boiler Pump
 5 - Grundfos 15-58 system pumps (All 3/4" Distribution, snowmelt uses heat exchanger)
 HTX 60 Expansion Tank
 1" Boiler piping
 1 1/2" System Piping

PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

<input checked="" type="checkbox"/> BUILDING	<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> MECHANICAL	<input checked="" type="checkbox"/> PLUMBING
<input checked="" type="checkbox"/> ELECTRICAL	<input checked="" type="checkbox"/> ENERGY
<input type="checkbox"/> ACCESSIBILITY	<input type="checkbox"/> FIRE

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BY: **MEM** DATE: **03/04/19**
WEST COAST CODE CONSULTANTS, INC.

PROJECT: **Edge Lot 71**
 CUSTOMER:

PROJECT NO.:

SCALE:
3/32"=1'

DRAWING NAME:
P1 (Ground Floor)

DRAWN BY:

DATE:
12/13/2017

REVISIONS

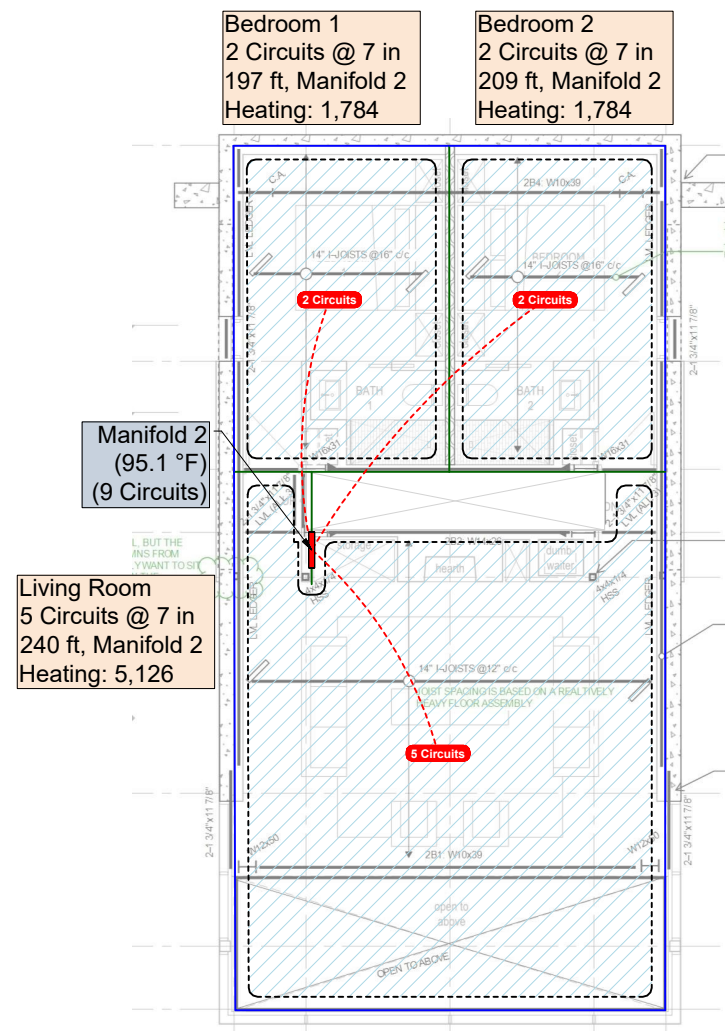
No	Desc	Date



DISCLAIMER:
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Manifolds													
Name	Rooms	Area (ft²)	# Circuits	Avg Length (ft)	Tubing Size	TotalFlow (USGPM)	Head Loss (ft water)	TotalLoad (Btu/hr)	S/R Type	S/R Length (ft)	S/R Head Loss (ft water)	Fluid	# Actuators
Manifold 2	Living Room, Bedroom 1, Bedroom 2	1,061	9	223	1/2"	4.24	12.2	42,273	hePEX 3/4"	40	8.1	100% Water	9

Rooms										
Name	Area (ft²)	Heated Area (ft²)	Zone	Panel Type	Total Load (Btu/hr)	Heat Loss (Btu/hr)	Heat Loss Unit (Btu/hr-ft²)	Supplemental	Tubing in Panel (ft)	
Bedroom 1	208	208	Zone 201	Gypsum Over-Pour On Suspended Slab	6,928	1,784	8.6	0	356	
Bedroom 2	208	208	Zone 202	Gypsum Over-Pour On Suspended Slab	6,760	1,784	8.6	0	356	
Living Room	699	645	Zone 203	Gypsum Over-Pour On Suspended Slab	26,867	5,126	7.3	0	1,112	



PLAN REVIEW ACCEPTANCE
 FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL
 MECHANICAL PLUMBING
 ELECTRICAL ENERGY
 ACCESSIBILITY FIRE

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BY: **MEM** DATE: **03/04/19**
WEST COAST CODE CONSULTANTS, INC.

PROJECT:
Edge Lot 71

CUSTOMER:

PROJECT NO.:

SCALE:
3/32"=1'

DRAWING NAME:
P2 (Main Floor)

DRAWN BY:

Created Using LoopCAD 2017.17.0.0694 (12/14/2017)

DATE:
12/13/2017

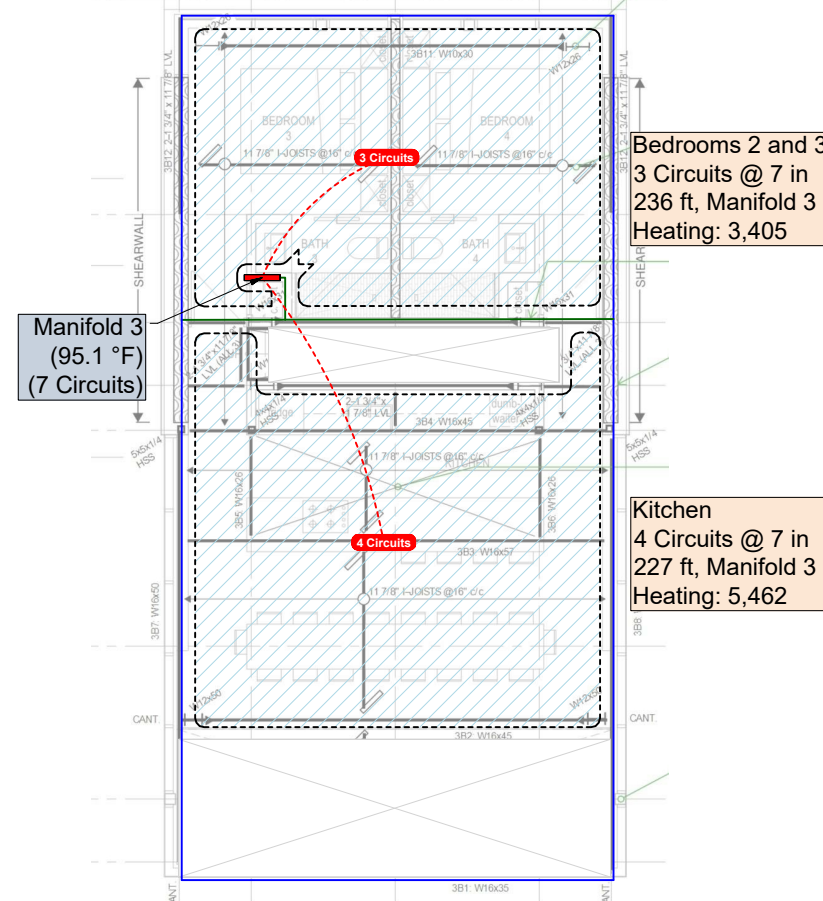
REVISIONS		
No	Desc	Date



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Manifolds													
Name	Rooms	Area (ft ²)	# Circuits	Avg Length (ft)	Tubing Size	TotalFlow (USGPM)	Head Loss (ft water)	TotalLoad (Btu/hr)	S/R Type	S/R Length (ft)	S/R Head Loss (ft water)	Fluid	# Actuators
Manifold 3	Kitchen, Bedrooms 2 and 3	889	7	231	1/2"	2.03	4.3	20,251	hePEX 3/4"	50	2.8	100% Water	7

Rooms									
Name	Area (ft ²)	Heated Area (ft ²)	Zone	Panel Type	Total Load (Btu/hr)	Heat Loss (Btu/hr)	Heat Loss Unit (Btu/hr-ft ²)	Supplemental	Tubing in Panel (ft)
Bedrooms 2 and 3	392	389	Zone 301	Gypsum Over-Pour On Suspended Slab	3,405	3,405	8.7	0	673
Kitchen	731	500	Zone 302	Gypsum Over-Pour On Suspended Slab	5,533	5,462	7.5	0	857



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BY: **MEM** DATE: **03/04/19**
WEST COAST CODE CONSULTANTS, INC.

PROJECT: **Edge Lot 71**
 CUSTOMER:

PROJECT NO.:

SCALE: **3/32"=1'**

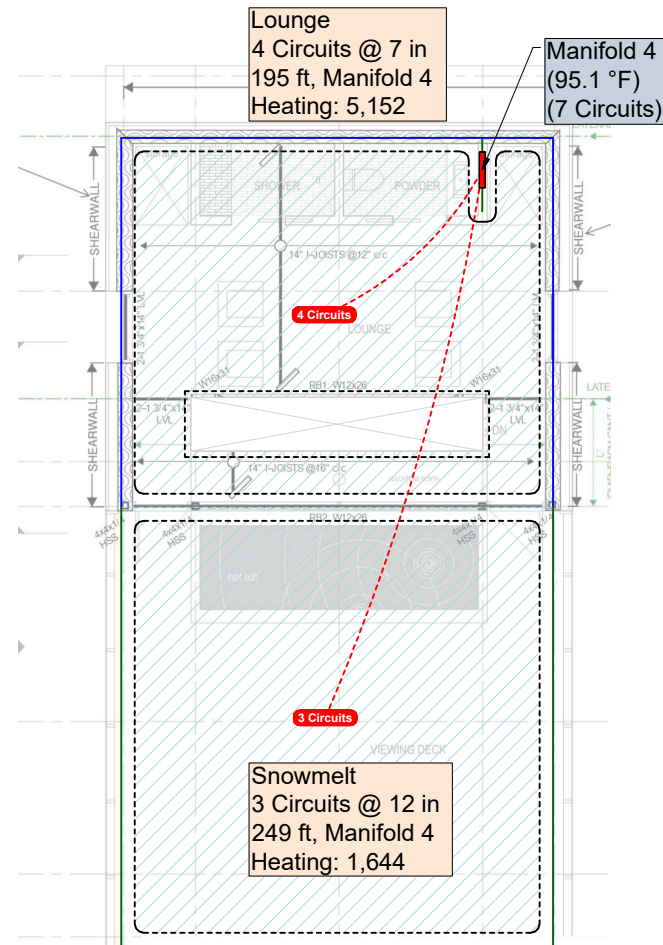
DRAWING NAME: **P3 (Second Floor)**

DRAWN BY:

DATE: **12/13/2017**

REVISIONS		
No	Desc	Date

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BY: **MEM** DATE: **03/04/19**
WEST COAST CODE CONSULTANTS, INC.

PROJECT:
Edge Lot 71

CUSTOMER:

PROJECT NO.:

SCALE:
3/32"=1'

DRAWING NAME:
P4 (Third Floor)

DRAWN BY:

Created Using LoopCAD 2017.17.0.0694 (12/14/2017)

DATE:
12/13/2017

REVISIONS

No	Desc	Date

Manifolds													
Name	Rooms	Area (ft²)	# Circuits	Avg Length (ft)	Tubing Size	TotalFlow (USGPM)	Head Loss (ft water)	TotalLoad (Btu/hr)	S/R Type	S/R Length (ft)	S/R Head Loss (ft water)	Fluid	# Actuators
Manifold 4	Lounge, Snowmelt	997	7	218	1/2", 5/8"	1.40	2.6	13,972	hePEX 3/4"	60	1.8	100% Water	0

Rooms										
Name	Area (ft²)	Heated Area (ft²)	Zone	Panel Type	Total Load (Btu/hr)	Heat Loss (Btu/hr)	Heat Loss Unit (Btu/hr·ft²)	Supplemental	Tubing in Panel (ft)	
Lounge	479	427	Zone 401	Gypsum Over-Pour On Suspended Slab	5,152	5,152	10.8	0	737	
Snowmelt	570	570	Zone 401	Lightweight Over-pour	1,644	1,644	2.9	0	570	