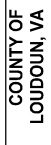


44 Canal Center Plaza, Suite 10
Alexandria, Virginia 22314
Telephone 703.636.7766



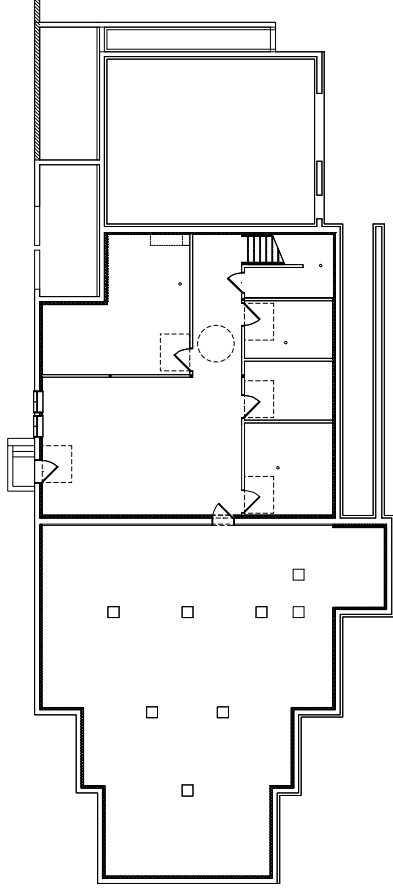
DRAWING INDEX

[illegible]

LOCATION MAP

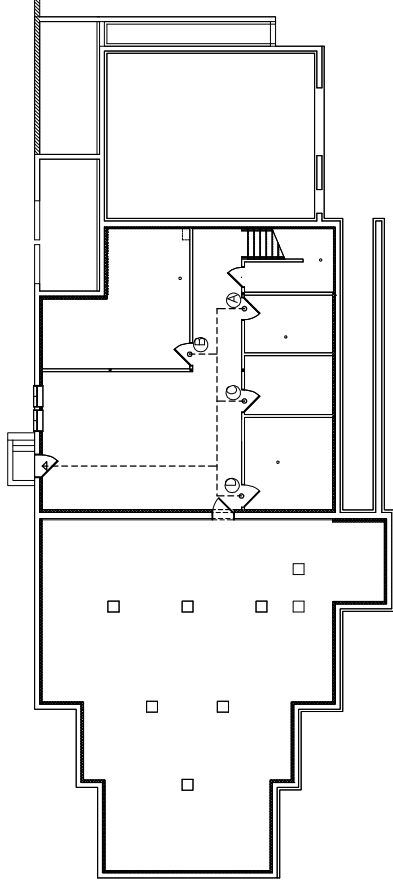


ACCESSIBILITY PLANS

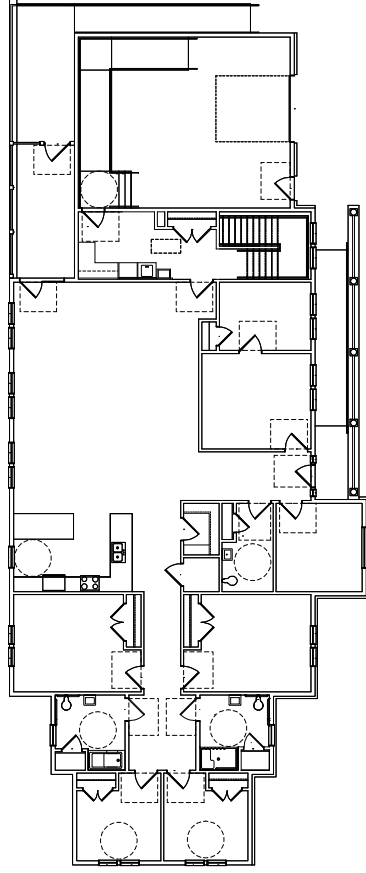


3 BASEMENT KEY MAP
SCALE: 1/8" = 1'-0"

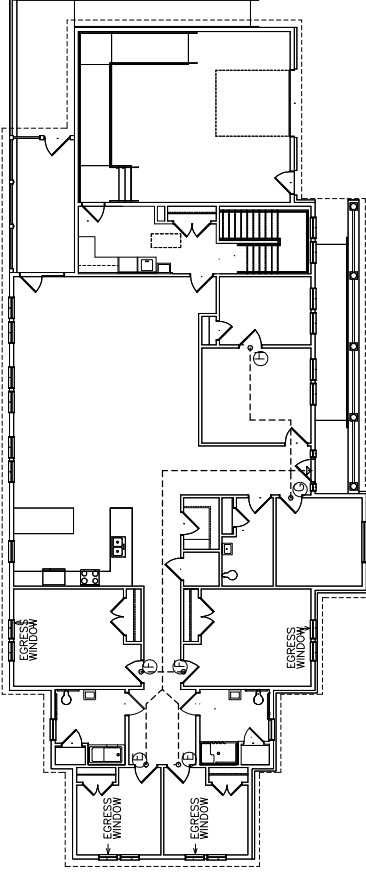
EGRESS TRAVEL PLANS



1 BASEMENT KEY MAP
SCALE: 1/8" = 1'-0"



4 FIRST FLOOR KEY MAP
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR KEY MAP
SCALE: 1/8" = 1'-0"

LEGEND	
	5'-0" TURNING RADIUS
	LATCH SIDE APPROACH CLEARANCE - 18" CLEAR MINIMUM LATCH SIDE

LEGEND	
SYMBOL	TRAVEL DISTANCE
A	48'-5"
B	31'-2"
C	36'-0"
D	61'-4"
E	52'-6"
F	6'-5"
G	24'-11"



44 Canal Center Plaza, Suite 100
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT: HGA
HGA ARCHITECTURE
44 CANAL CENTER PLAZA, SUITE 100
ALEXANDRIA, VA 22314
703.836.7766

STRUCTURAL ENGINEER
8812 LOCUST HILL DRIVE
GREAT FALLS, VA 22062
703.836.7766

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2801 TELESTAR DRIVE, SUITE 400
FALLS CHURCH, VA 22042
703.836.7766

GENERAL CONTRACTOR
ZICHT & ASSOCIATES, LLC
10000 SIMPSON CIRCLE
PACONNA, ILLINOIS 60069
562.582.4286

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

1. THESE DRAWINGS SHALL BE USED TO CONSTRUCT THE PROJECT AND SHALL BE THE PROPERTY OF HGA. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF HGA.

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	01/11/2017
2	ISSUED FOR PERMIT	01/11/2017
3	ISSUED FOR PERMIT	01/11/2017
4	ISSUED FOR PERMIT	01/11/2017
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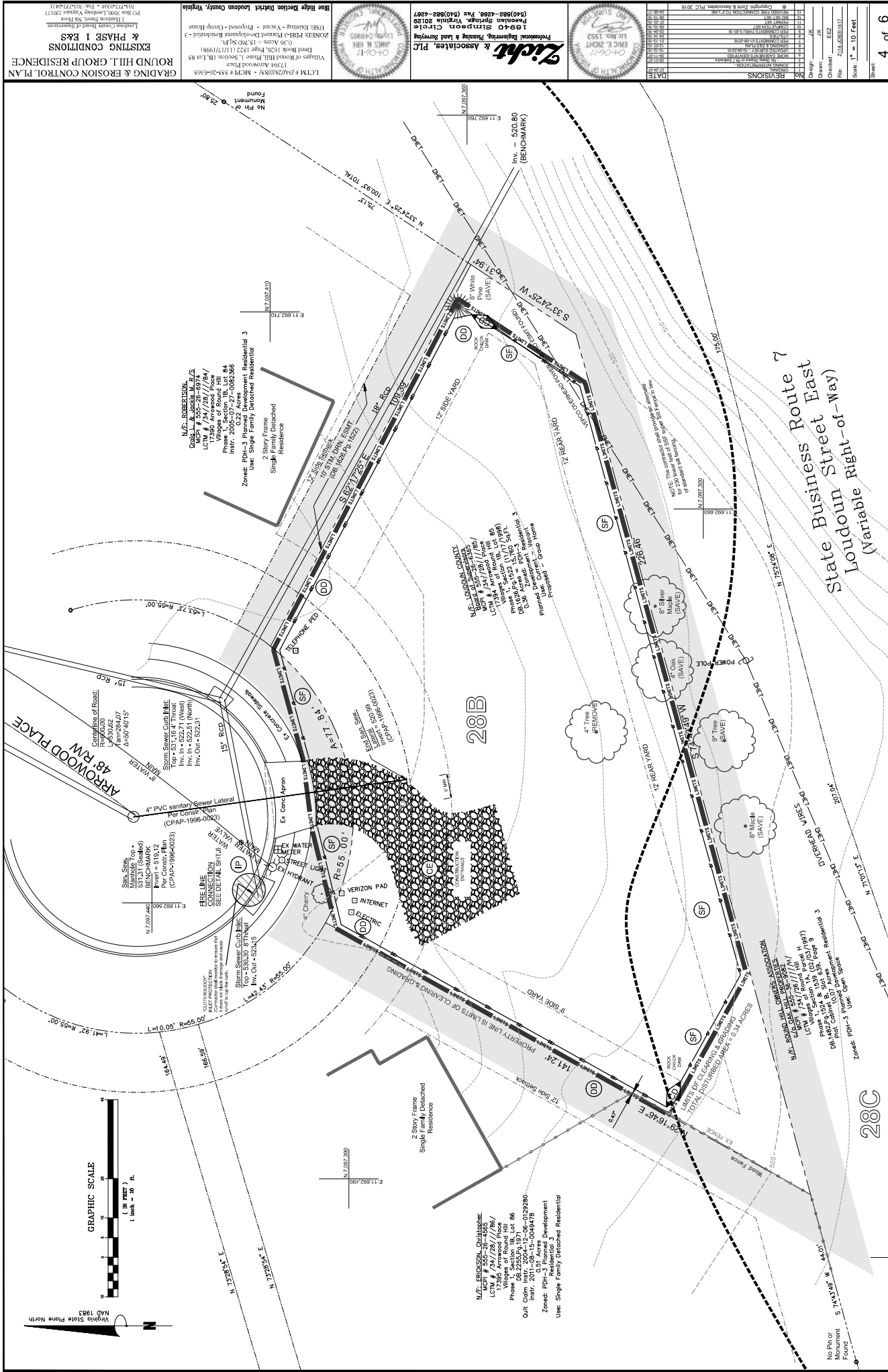
HGA NO: 3204-003-00

DATE: 12/9/16

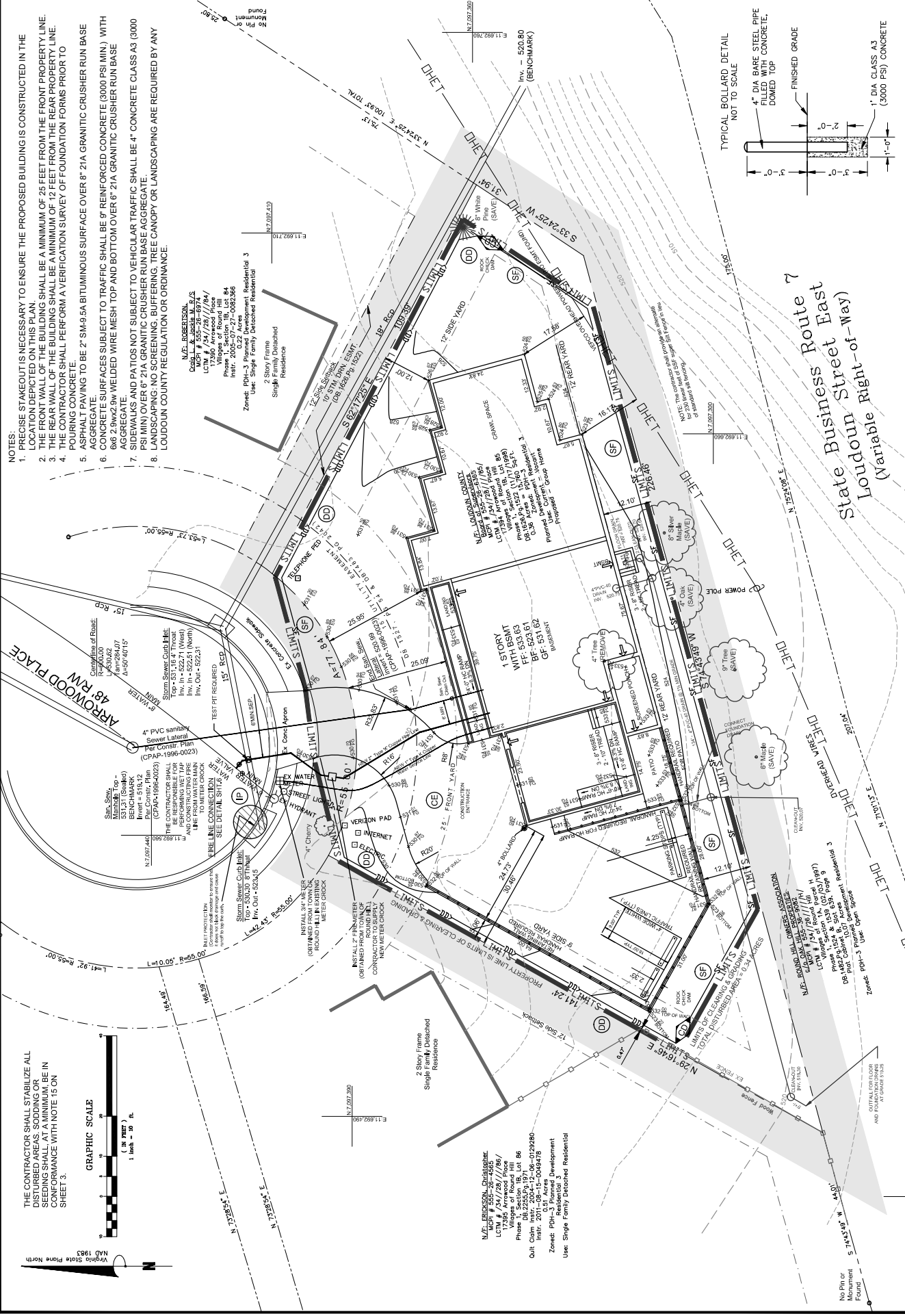
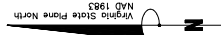
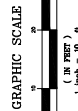
FINAL BID SET

G1.03

DESCRIPTIVE PLANS



THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS, SODDING OR SEEDING SHALL AT A MINIMUM BE IN CONFORMANCE WITH NOTE 15 ON SHEET 3.



NOTES:

1. PRECISE STAKEOUT IS NECESSARY TO ENSURE THE PROPOSED BUILDING IS CONSTRUCTED IN THE LOCATION DEPICTED ON THIS PLAN.
2. THE FRONT WALL OF THE BUILDING SHALL BE A MINIMUM OF 25 FEET FROM THE FRONT PROPERTY LINE.
3. THE REAR WALL OF THE BUILDING SHALL BE A MINIMUM OF 12 FEET FROM THE REAR PROPERTY LINE.
4. THE CONTRACTOR SHALL PERFORM A VERIFICATION SURVEY OF FOUNDATION FORMS PRIOR TO POURING CONCRETE.
5. ASPHALT PAVING TO BE 2" SM-9.5A BITUMINOUS SURFACE OVER 8" 21A GRANITIC CRUSHER RUN BASE AGGREGATE.
6. CONCRETE SURFACES SUBJECT TO TRAFFIC SHALL BE 8" REINFORCED CONCRETE (3000 PSI MIN.) WITH 6" DIA. BARS WELDED WIRE MESH TOP AND BOTTOM OVER 6" 21A GRANITIC CRUSHER RUN BASE AGGREGATE.
7. SIDEWALKS AND PATIOS NOT SUBJECT TO VEHICULAR TRAFFIC SHALL BE 4" CONCRETE CLASS A3 (3000 PSI MIN) OVER 6" 21A GRANITIC CRUSHER RUN BASE AGGREGATE.
8. LANDSCAPING, NO SCREENING, BUFFERING, TREE CANOPY OR LANDSCAPING ARE REQUIRED BY ANY LOUDOUN COUNTY REGULATION OR ORDINANCE.

GRADING PLAN
& PHASE 2 EKS
ROUND HILL GROUP RESIDENCE
GRADING & EROSION CONTROL PLAN

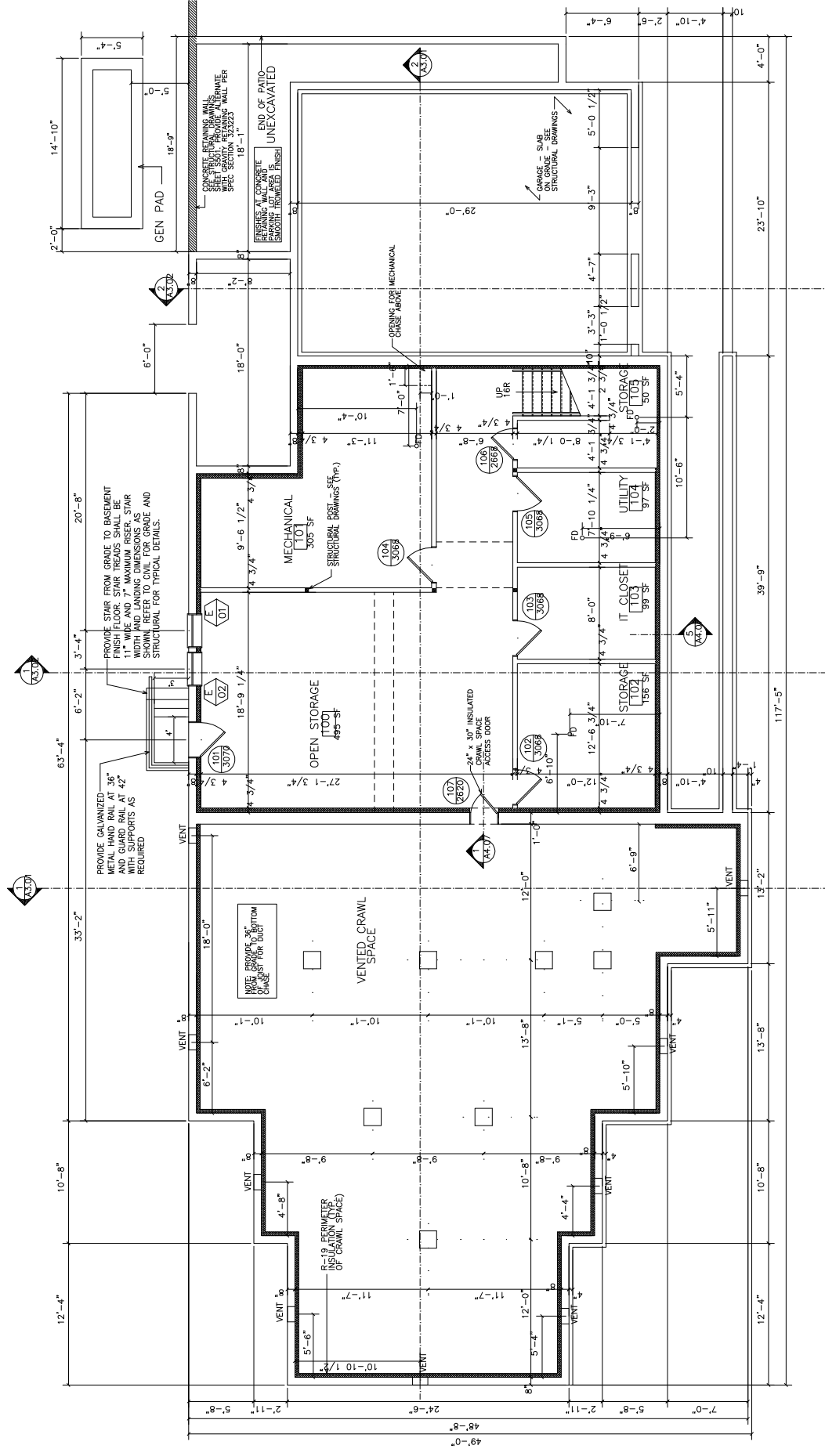
Blue Ridge Decision District
County, Virginia
USE: Building - Vacant - Proposed - Group Home
17000 Loudoun Road, Loudoun County, VA 22071
17000 Loudoun Road, Loudoun County, VA 22071
17000 Loudoun Road, Loudoun County, VA 22071



Zick & Associates, PLLC
16940 Simpson Circle
Premont Springs, Virginia 20126
(561) 488-4888 Fax (561) 488-4887



DATE	REVISIONS
12/22/17	1. Initial Design
12/22/17	2. Final Design
12/22/17	3. Final Design
12/22/17	4. Final Design
12/22/17	5. Final Design
12/22/17	6. Final Design
12/22/17	7. Final Design
12/22/17	8. Final Design
12/22/17	9. Final Design
12/22/17	10. Final Design
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12/22/17	12. Final Design
12/22/17	13. Final Design
12/22/17	14. Final Design
12/22/17	15. Final Design
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12/22/17	30. Final Design

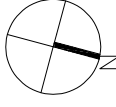


NOTE:	
1.	DIMENSIONS TAKEN FROM FINISHED FACE OF FRAMED WALLS AND FACE OF CONCRETE WALLS
2.	SEE MECHANICAL AND PLUMBING DRAWINGS / SPECS FOR ALL PIPE INSULATION REQUIREMENTS

1
A1.01

BASEMENT PLAN

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





44 Canal Center Plaza, Suite 100
Alexandria, Virginia 22314
Telephone 703.838.7766

ARCHITECT: HGA
PROJECT: PARTIAL BASEMENT
44 CANAL CENTER PLAZA
ALEXANDRIA, VA 22314
703-838-7766

STRUCTURAL ENGINEER
8812 LOCUST HILL DRIVE
GREAT FALLS, VA 22064
703-838-7766

MEP ENGINEER
2801 TELESTAR DRIVE, SUITE 400
FALLS CHURCH, VA 22042
703-838-7766

GENERAL CONTRACTOR
ZICHT & ASSOCIATES, P.C.
16000 SIMPSON CIRCLE
PACONNA, ILLINOIS 60069
562-682-4286

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

1. HGA HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING CONDITIONS AND HAS FOUND NO OBVIOUS DEFECTS OR DAMAGE TO THE EXISTING FOUNDATION. THE FOUNDATION IS FOUND TO BE IN GOOD CONDITION AND IS FOUND TO BE IN GOOD CONDITION.

B.E. AND B.TECH SEMESTER V CIVIL ENGINEERING ESTIMATION AND COSTING		
S.NO	DESCRIPTION	DATE



44 Canal Center Plaza
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT: HGA
HGA ARCHITECTURE INTERIORS
44 CANAL CENTER PLAZA
ALEXANDRIA, VA 22314
703-836-7766

STRUCTURAL ENGINEER
8612 LOUSTON DRIVE
GREAT FALLS, VA 22062

M/E/P ENGINEER
POTOMAC ENERGY GROUP, INC.
2801 TELESTAR DRIVE, SUITE 400
FALLS CHURCH, VA 22042

MECHANICAL ENGINEER
ZCHT & ASSOCIATES, P.C.
7000 WOODBURN DRIVE
PACONNA, OHIO 44130

ELECTRICAL ENGINEER
ZCHT & ASSOCIATES, P.C.
7000 WOODBURN DRIVE
PACONNA, OHIO 44130

PLUMBING ENGINEER
ZCHT & ASSOCIATES, P.C.
7000 WOODBURN DRIVE
PACONNA, OHIO 44130

CONTRACTOR
ROUND HILL GROUP
RESIDENCE
1738 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

CONTRACTOR
ROUND HILL GROUP
RESIDENCE
1738 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

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1738 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

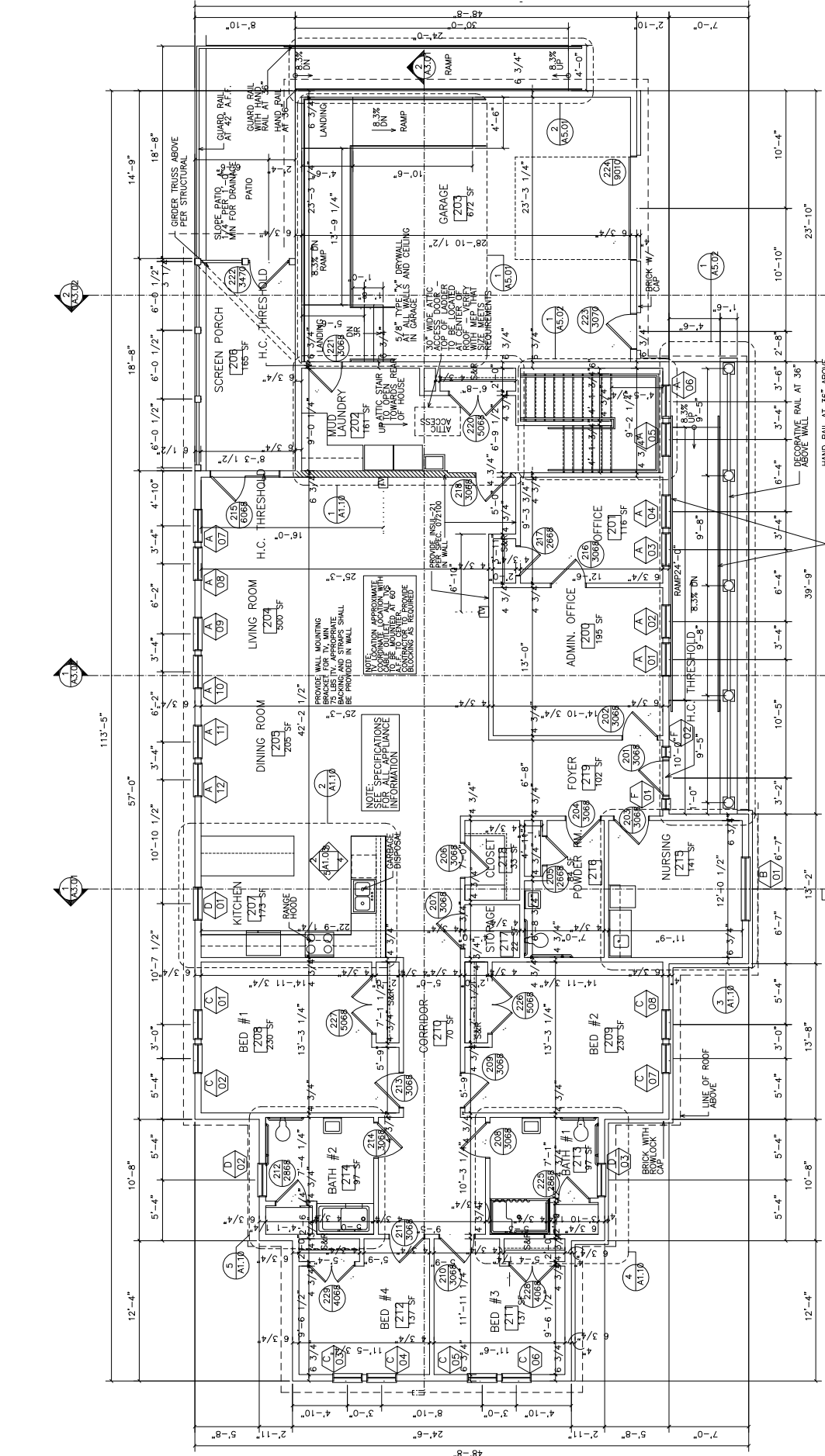
CONTRACTOR
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1738 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

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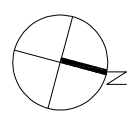


NOTES:
DIMENSIONS TAKEN FROM FINISHED
FLOOR OF ALL INTERIOR WALL SURFACES
AND SHEATHED FACE AT EXTERIOR WALL
SURFACES

SLOPE ALL BATHROOMS SUB-FLOORING
TOWARDS DRAINS AT ALL BATHROOM
CONDITIONS. REFER TO STRUCTURAL AND
PLUMBING DRAWINGS FOR ADDITIONAL
INFORMATION

FIRST FLOOR PLAN

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

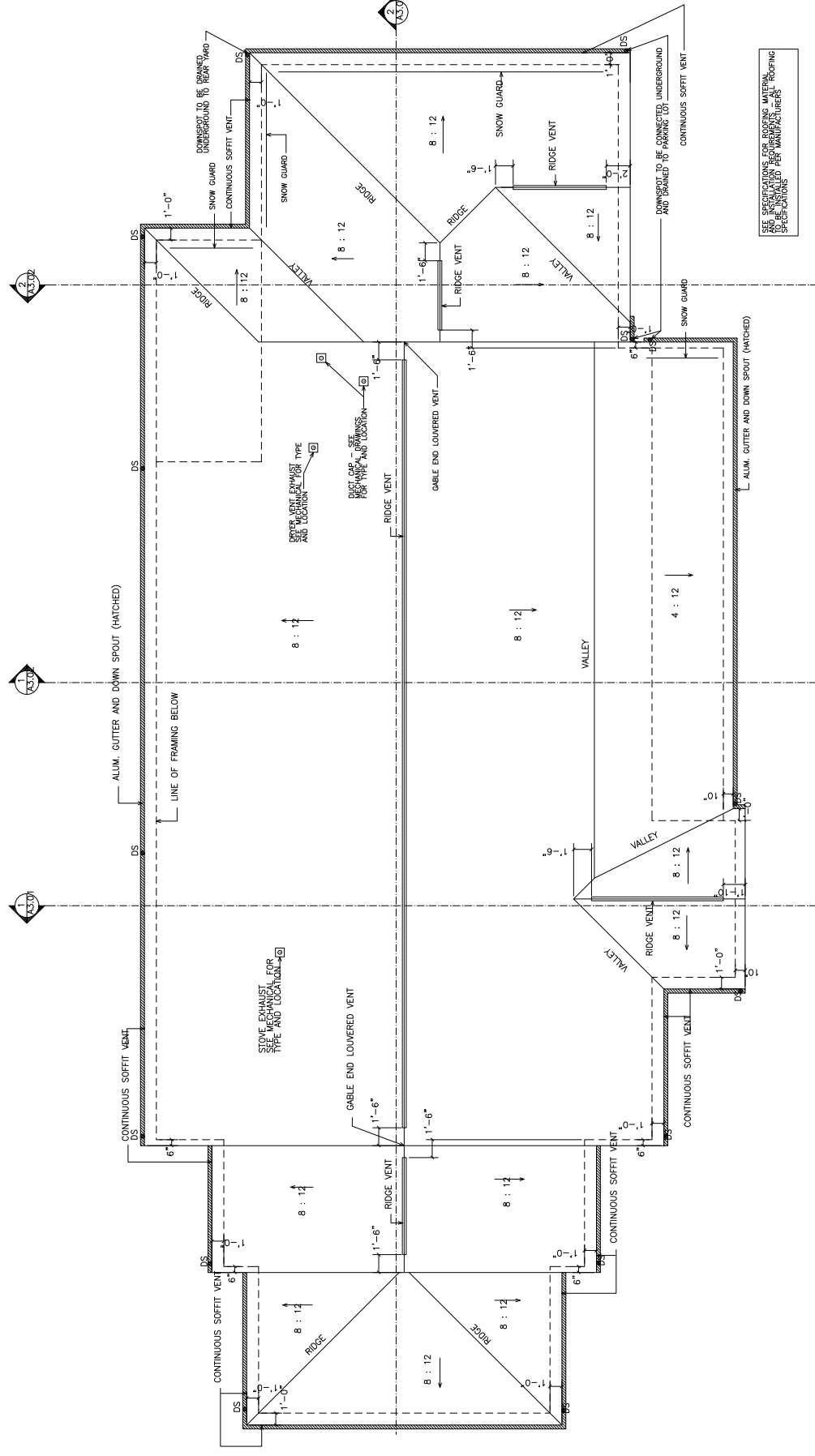


DATE: 12/9/16

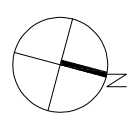
FINAL BID SET

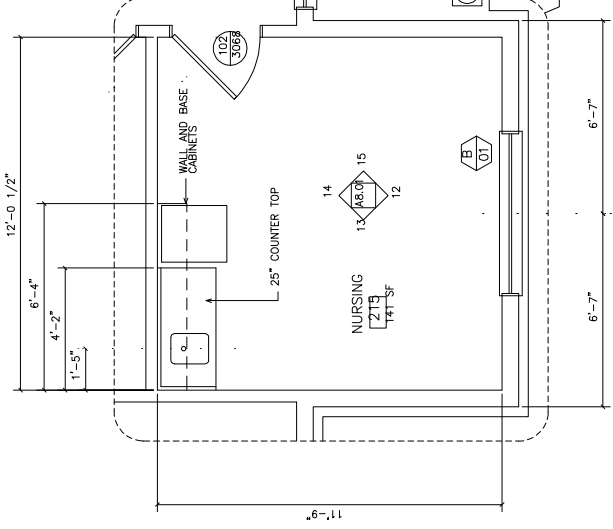
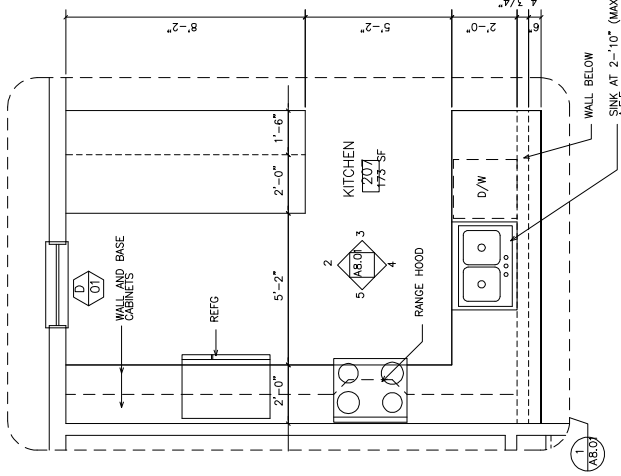
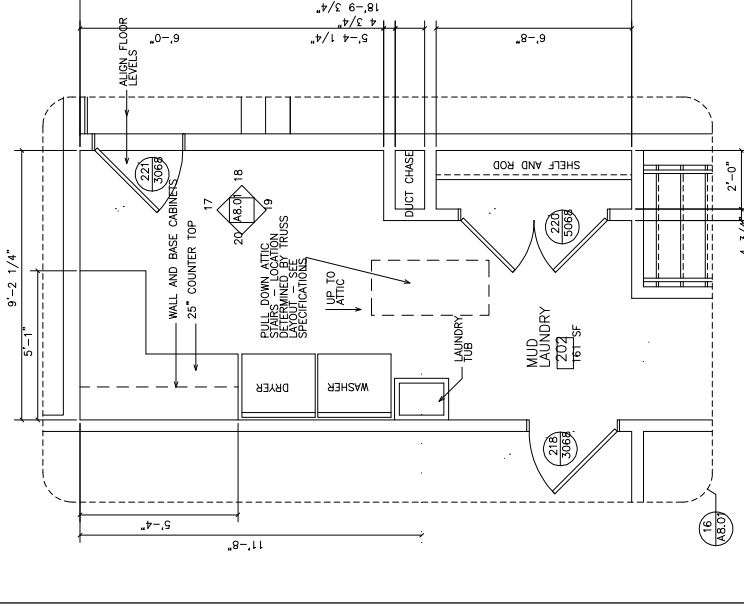
A1.02

FIRST FLOOR PLAN

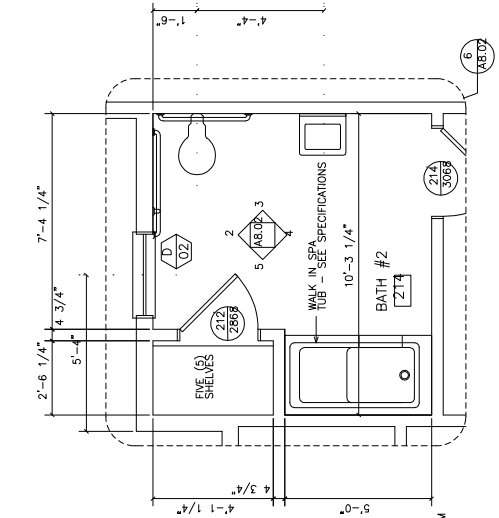


1
A1.04 ROOF PLAN
SCALE: 1/4" = 1'-0"



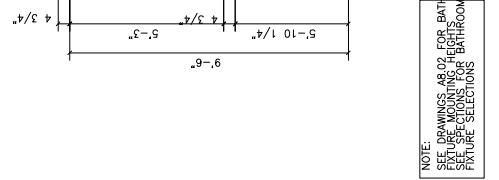


3 NURSING ROOM
A1.10 SCALE: 1/2" = 1'-0"



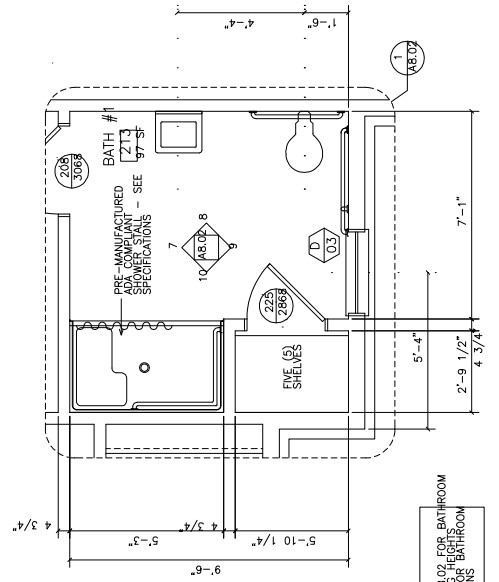
5 BATH #2
A1.10 SCALE: 1/2" = 1'-0"

2 KITCHEN
A1.10 SCALE: 1/2" = 1'

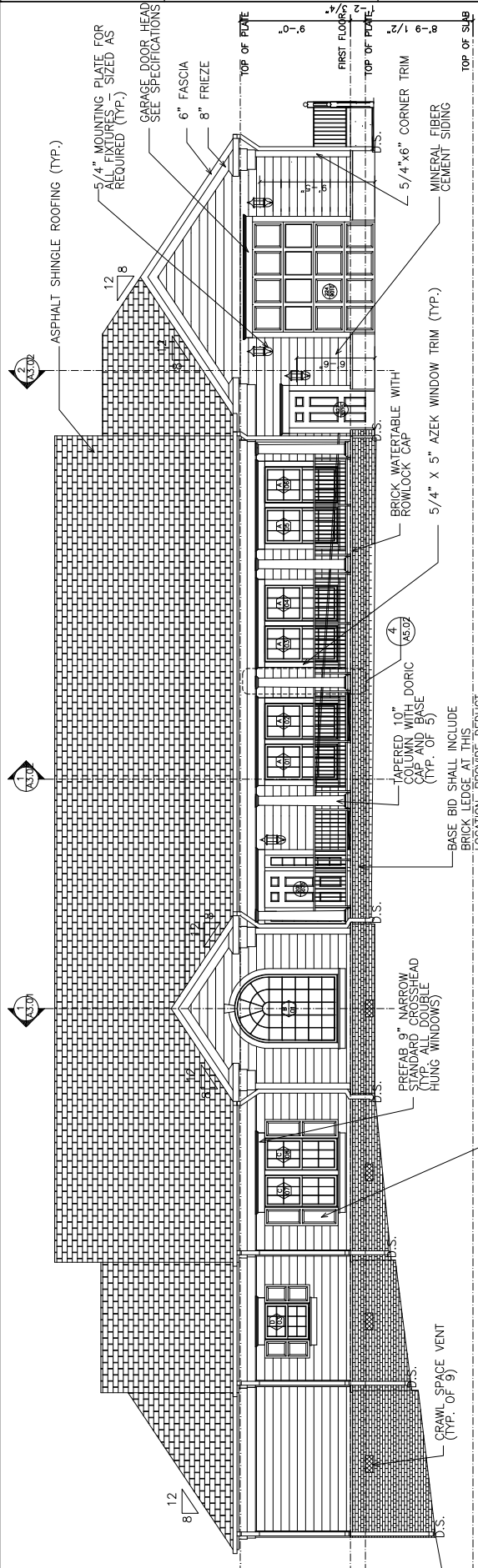


4 BATH #1
A1.10 SCALE: 1/2" = 1'-0"

1 MUD - LAUNDRY ROOM
AT 10 SCALE: 1/2" = 1'-0"

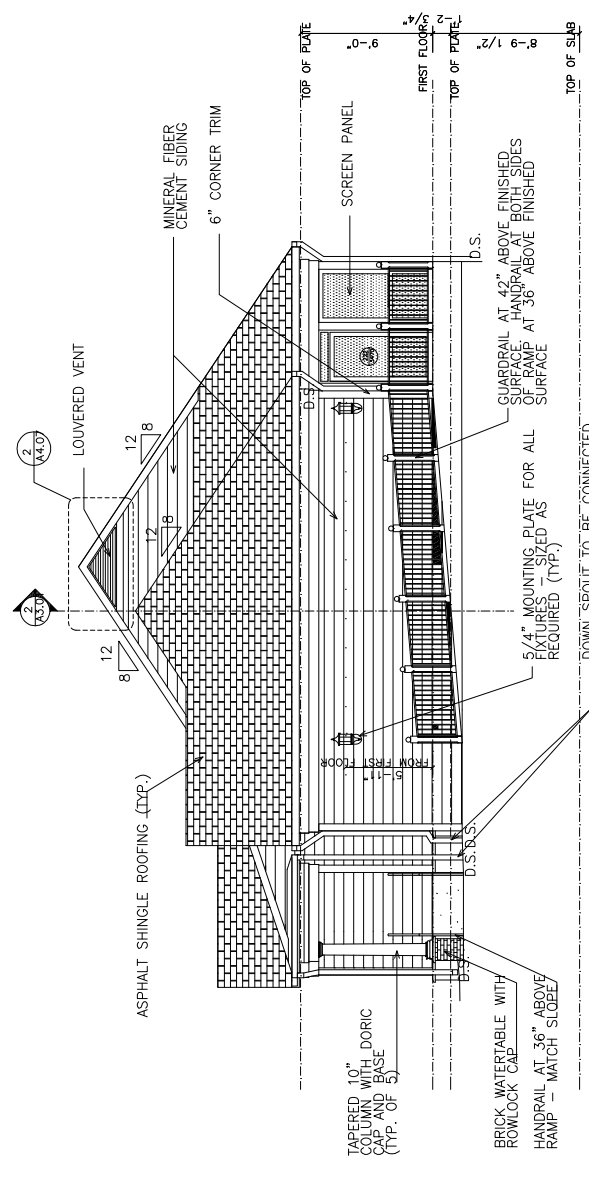


4 BATH #1
A1.10 SCALE: 1/2" = 1'-0"



FRONT ELEVATION

A2.01 SCALE: 1/4" = 1'-0"



GARAGE SIDE ELEVATION

A2.01 SCALE: 1/4" = 1'-0"



ASPHALT SHINGLE ROOFING (TYP.)

SCREEN PANELS

12
8

5/4" x 6" CORNER TRIM
MINERAL FIBER
CEMENT SIDING

12
8

TOP OF PLATE
FIRST FLOOR
TOP OF PLATE
TOP OF SLAB

8'-9 1/2"
2'-0"

8'-9 1/2"
2'-0"

8'-9 1/2"
2'-0"

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RETAINING WALL
6" MIN. THICK
6" MIN. HIGH

PER CODE
MIN. 42" ABOVE GRADE

BRICK PATTERN
STAMPED CONCRETE
FOUNDATION WALL

6'-0" X 6'-8" OPENING TO
EXTERIOR STORAGE SPACE

HEAT PUMP - SEE MECHANICAL

1X10 BAND BOARD

2" BRICK MOLD

5/4" MOUNTING PLATES FOR ALL LIGHT FIXTURES (TYP.)
SIZED AS REQUIRED (TYP.)

CRAWL SPACE VENT
(TYP. OF 9)

PREFAB 9" NARROW
STANDARD CROSSHEAD
(TYP. ALL DOUBLE
HUNG WINDOWS)

PREFAB RAISED PANEL
SHUTTER - 18"

ASPHALT SHINGLE ROOFING (TYP.)

BRICK WATERTABLE WITH
ROWLOCK CAP

PREFAB 9" NARROW
STANDARD CROSSHEAD
(TYP. ALL DOUBLE
HUNG WINDOWS)

PREFAB RAISED PANEL
SHUTTER - 18"

BASE BID SHALL INCLUDE
BRICK LEDGE AT THIS
LOCATION. PROVIDE DEDUCT
ALTERNATE WITHOUT BRICK
FASCIA AND BRICK LEDGE

BRICK PATTERN
STAMPED CONCRETE
FOUNDATION WALL

CRAWL SPACE VENT
(TYP. OF 9)

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ARCHITECT / INTERIORS
HGA ARCHITECTS AND ENGINEERS
44 CANAL CENTER PLAZA, SUITE 1000
ALEXANDRIA, VA 22314
703-696-7766

STRUCTURAL ENGINEER
SOGAR, LLC
9612 LOCUST HILL DRIVE
GREAT FALLS, VA 22068

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2901 TELESTAR COURT

FALLS CHURCH, VA 22042
703-683-5000
CIVIL ENGINEER

16940 SIMPSON CIRCLE
PACONIAN SPRINGS, VA 20129
540-882-4266

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF

DEPARTMENT OF
TRANSPORTATION
AND CAPITAL

INFRASTRUCTURE

RESIDENCE
17394 ARROWOOD PLACE

ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THE PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

NAME: ARCHITECT
DATE: PROJECT DATE
SHEET NUMBER: ARCHITECTURE

ΔNO	DESCRIPTION	DATE

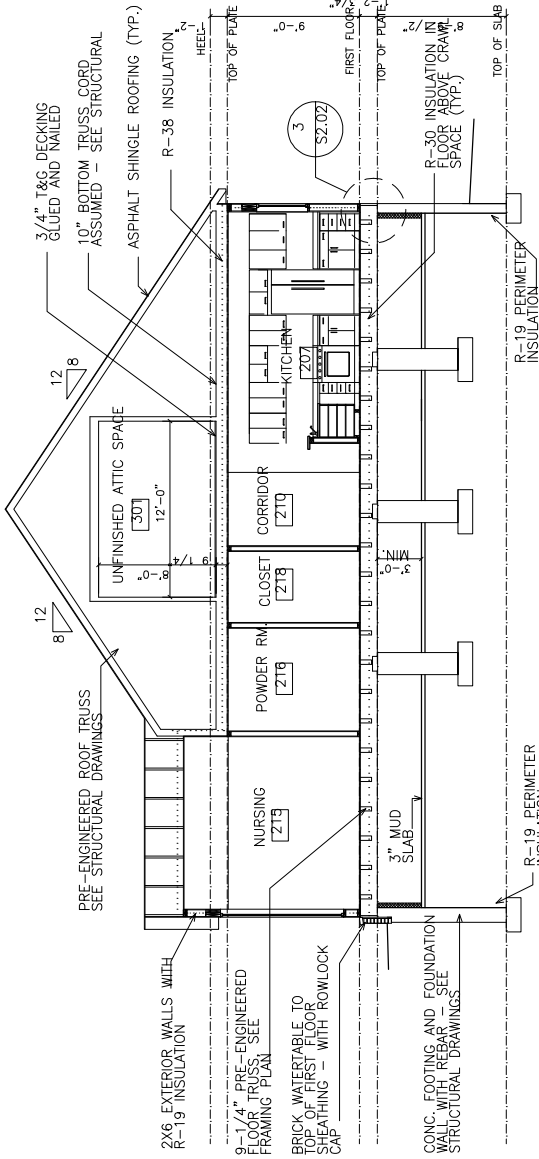
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HGA NO: 3204-003-00

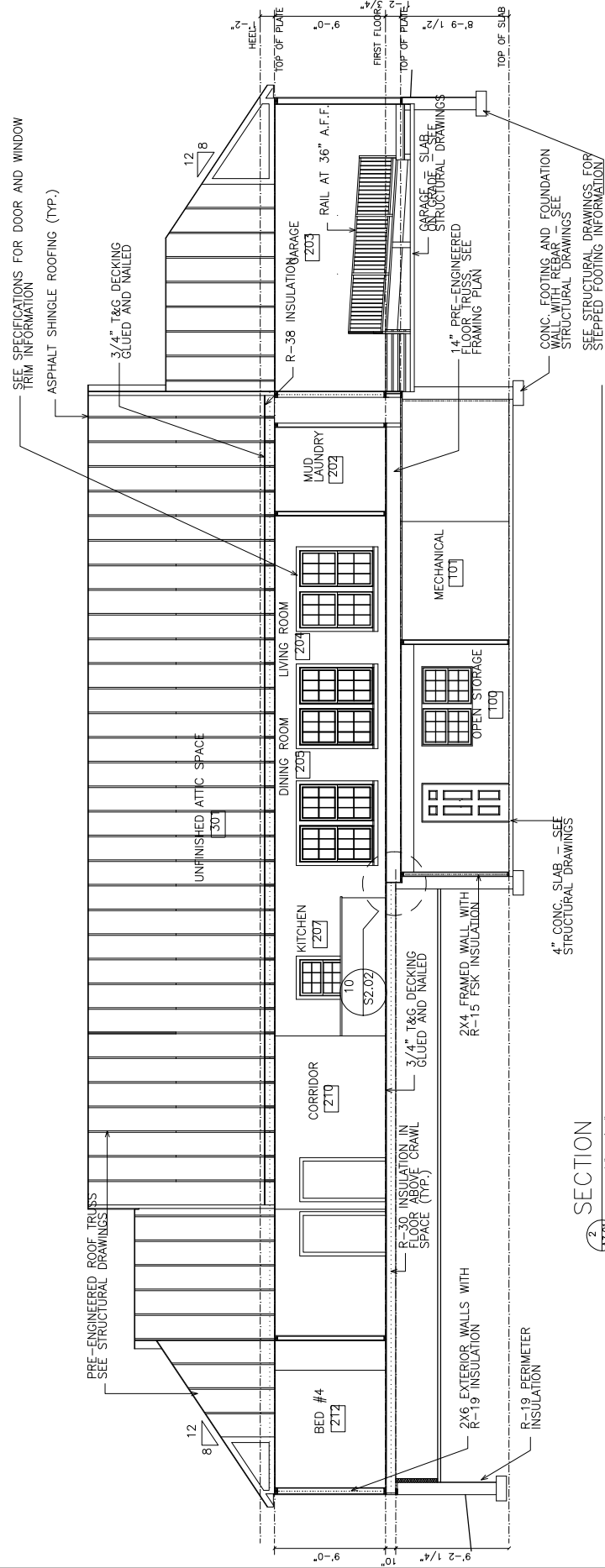
DATE: 12/9/16

FINAL BID SET

ADDITIONAL SECTIONS

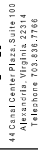


SECTION 1
A3.01 SCALE: 1/4" = 1'-0"



SECTION 2
A3.01 SCALE: 1/4" = 1'-0"

(2)
(A3.01) SCALE: 1/4" = 1'-0"



ARCHITECT / INTERIORS
HGA ARCHITECTS AND ENGINEERS
44 CANAL CENTER PLAZA
SUITE 1000
ALEXANDRIA, VA 22314
703-636-7766

STRUCTURAL ENGINEER
SPAR, LLC
9612 LOCUST HILL DRIVE

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2901 TELESTAR COURT

FALLS CHURCH, VA 22042
703-683-5000

ZICHT & ASSOCIATES, PLLC
16940 SIMPSON CIRCLE
PACOMAN SPRINGS, VA 20129
540.992.4765

COUNTY OF

LOUDBON, VA
DEPARTMENT OF

TRANSPORTATION
AND CAPITAL

INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17394 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE

NAME: ARCHTCT
DATE: PROJECTDATE
LICENSE NUMBER: ARCHTECPLICENSE

Δ	NO	DESCRIPTION	DATE
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ISSUANCE HISTORY - THIS SHEET		
U.S. A. INC.	2004/03/03	00

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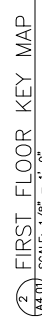
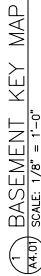
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DATE:	12/9/16
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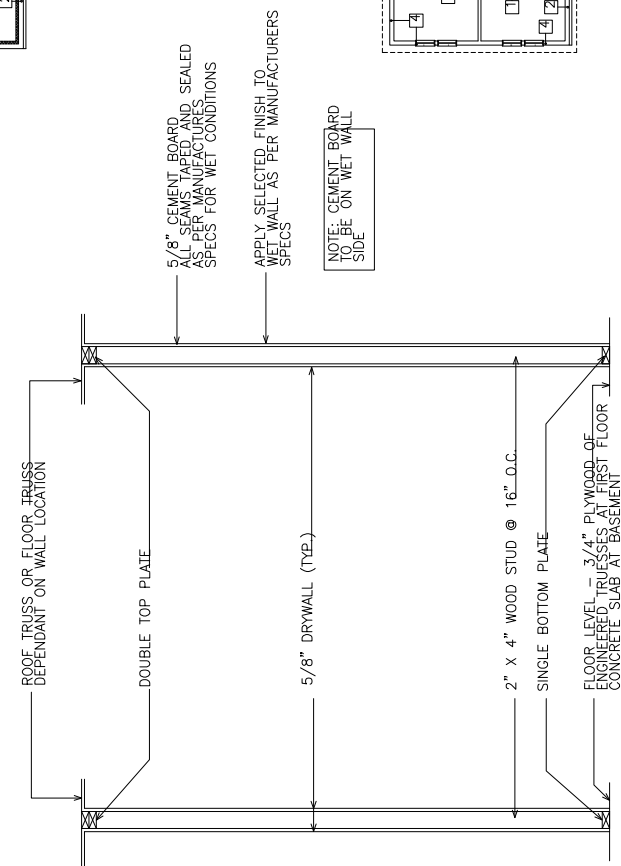
A4 01

WALL DETAILS / PLAN



SYMBOL	DRAWING	DESCRIPTION
1	4 / A4.01	TYP. INTERIOR PARTITION WALL
2	1 / A4.02	EXTERIOR BRICK WALL AT CRAWL SPACE
3	2 / A4.02	EXTERIOR WALL WITH LEDGE
4	1 / A4.03	EXTERIOR WALL AT CRAWL SPACE
5	2 / A4.03	EXTERIOR WALL AT BASEMENT
6	1 / A4.04	INTERIOR FOUNDATION WALL BETWEEN BASEMENT AND CRAWL
7	2 / A4.04	INTERIOR FOUNDATION WALL BETWEEN BASEMENT AND GARAGE
8	1 / A4.05	EXTERIOR WALL AT SCREEN PORCH
9	3 / A4.01	INTERIOR PARTITION WALL AT WET ZONE
10	1 / A4.08	EXTERIOR GARAGE WALL

NOTE: IF THERE IS A CONFLICT BETWEEN STRUCTURAL WALL SECTIONS AND ARCHITECTURAL WALL SECTION, STRUCTURAL TO TAKE PRECEDENCE



4 TYP. INTERIOR PARTITION WALL
 (44.00) SCALE: 1" = 1'-0" TYPED 1





44 Canal Center Plaza
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT
HGA ARCHITECTURE
44 CANAL CENTER PLAZA
ALEXANDRIA, VA 22314
703-836-7766

STRUCTURAL ENGINEER
8612 LOCUST HILL DRIVE
GREAT FALLS, VA 22062
703-836-7766

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2801 TELESTAR DRIVE
FALLS CHURCH, VA 22042
703-836-7766

GENERAL CONTRACTOR
ZICHT & ASSOCIATES, LLC
1600 SIMPSON AVENUE
PACONNA, OHIO 44130
540-455-4386

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE
ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

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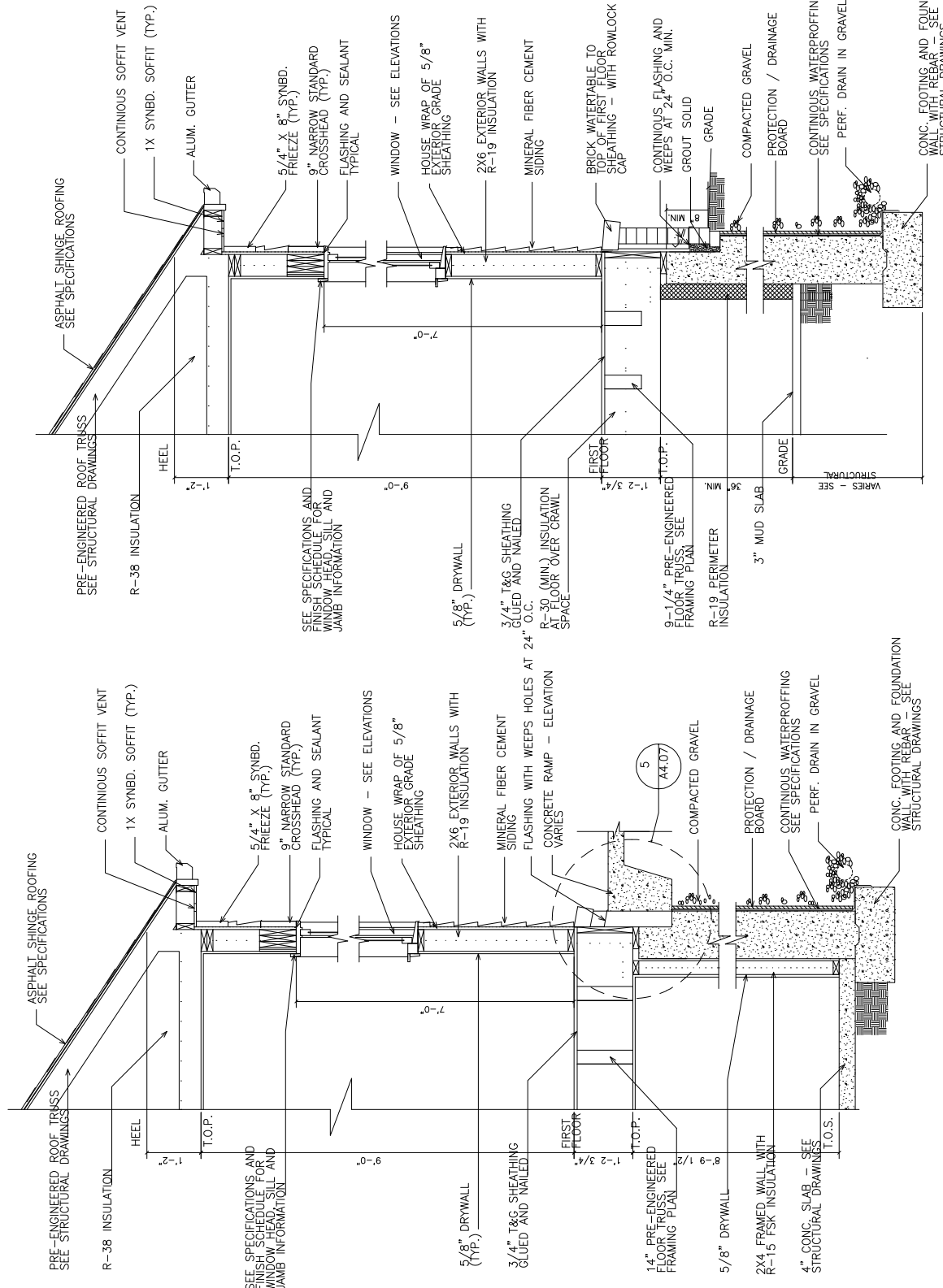
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17	REVISION	
18	REVISION	
19	REVISION	
20	REVISION	

HGA NO: 3204-003-00

DATE: 12/9/16

FINAL BID SET

A4.02
WALL DETAILS

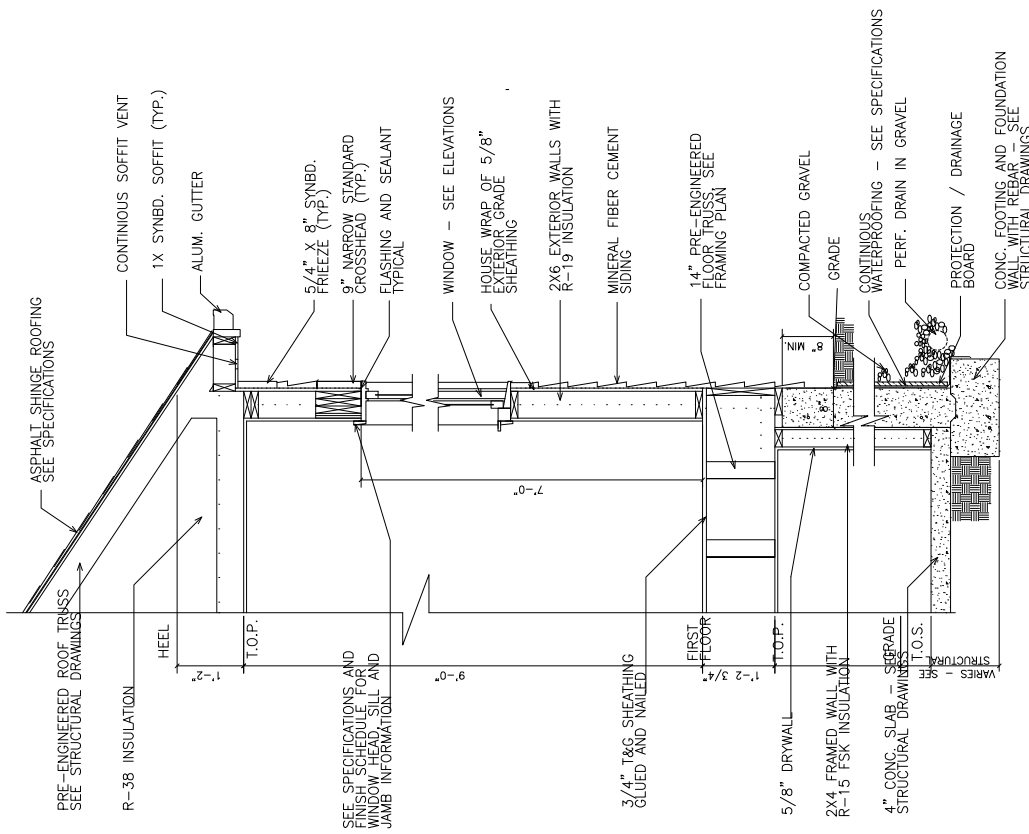


1 EXTERIOR BRICK WALL AT CRAWL SPACE
TYPE 2

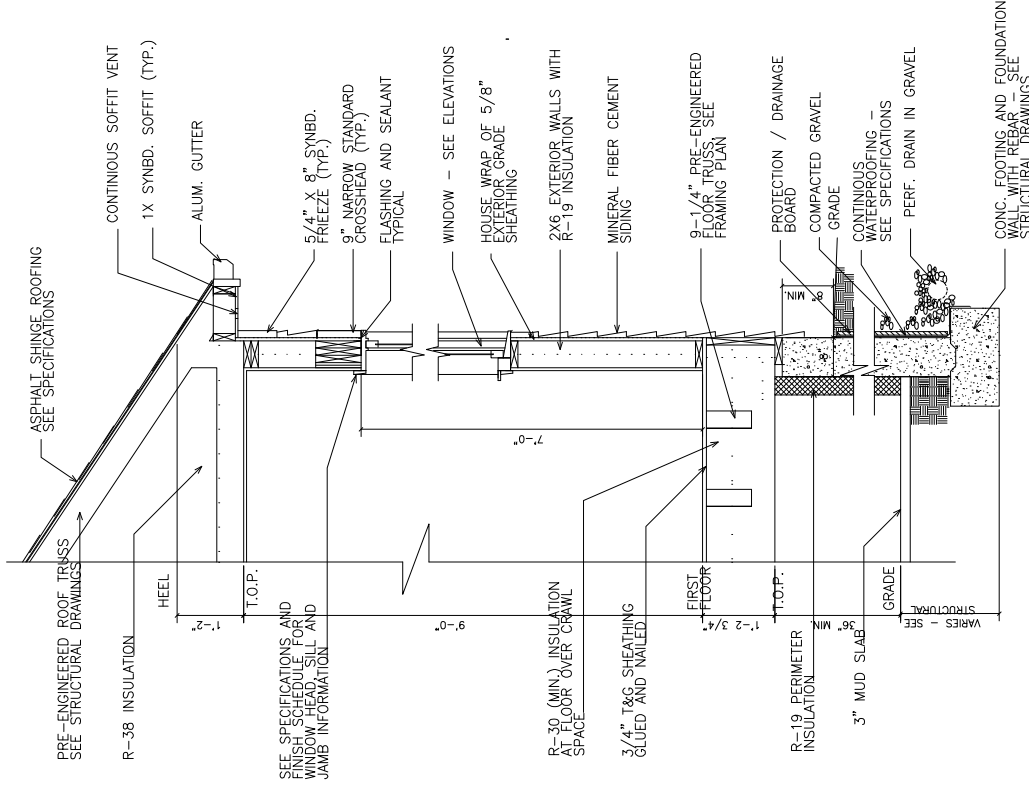
NOTE: IF THERE IS A CONFLICT BETWEEN SECTION AND STRUCTURAL WALL, SECTION AND STRUCTURAL TO TAKE PRECEDENCE

2 EXTERIOR WALL WITH LEDGE
TYPE 3

SCALE: 1" = 1'-0"



2 EXTERIOR WALL AT BASEMENT
A4.03 SCALE: 1" = 1'-0" TYPE 5



1 EXTERIOR WALL AT BASEMENT
A4.03 SCALE: 1" = 1'-0" TYPE 4

NOTE: IF THERE IS A CONFLICT BETWEEN STRUCTURAL WALL SECTIONS AND ARCHITECTURAL WALL SECTION, STRUCTURAL TO TAKE PRECEDENCE



44009
HGA
44 Canal Center Plaza
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT
HGA ARCHITECTS
44 CANAL CENTER PLAZA
ALEXANDRIA, VA 22314
703-836-7766

STRUCTURAL ENGINEER
8612 LOCUST HILL DRIVE
GREAT FALLS, VA 22062
703-836-7766

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2801 TELESTAR DRIVE
FALLS CHURCH, VA 22042
703-836-7766

MECHANICAL ENGINEER
ZCHT & ASSOCIATES, P.C.
10000 SULLY ROAD
PACONNA, OHIO 44130
540-862-4386

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE
ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

1. PREPARED FOR THE CLIENT BY THE ARCHITECT
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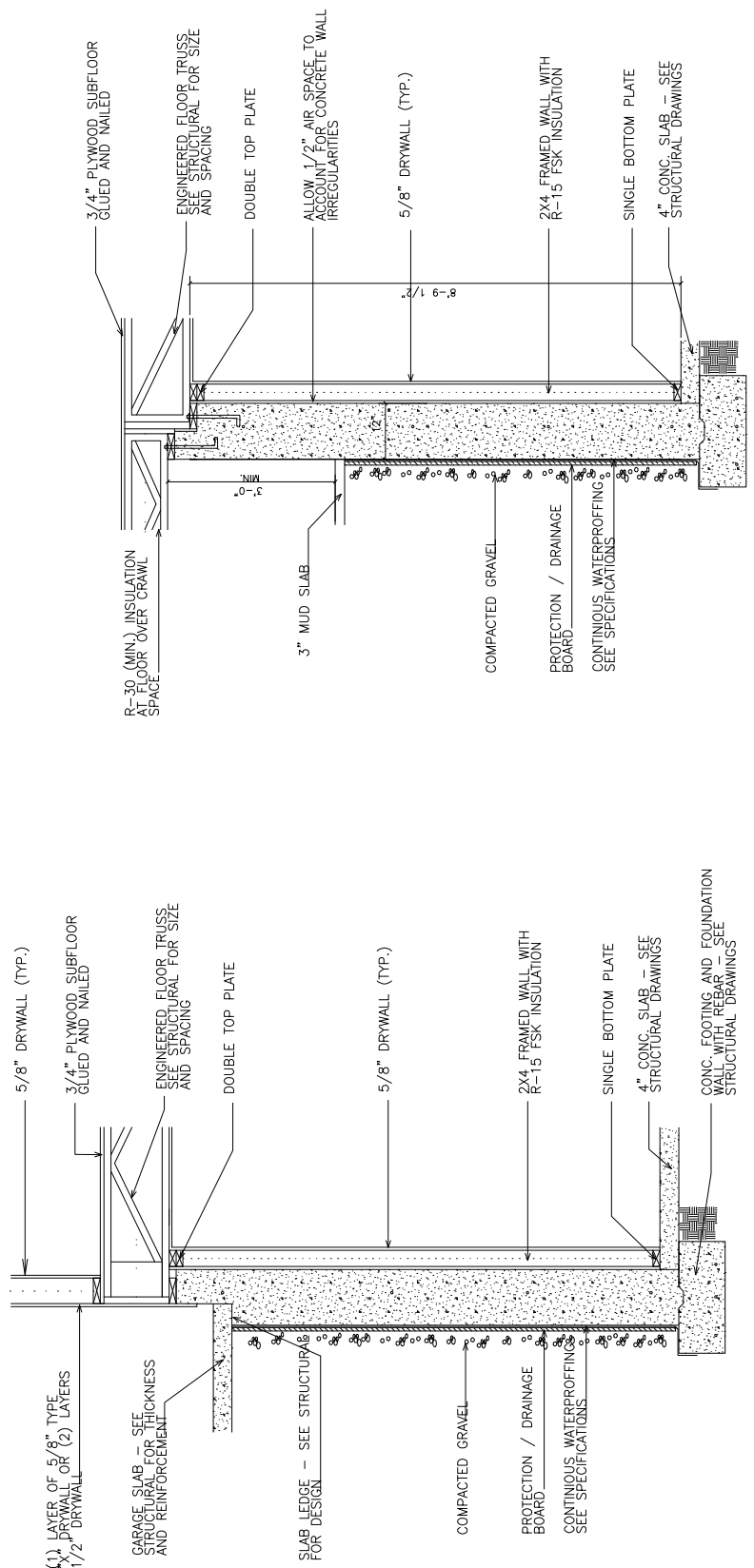
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HGA NO: 3204-003-00

DATE: 12/9/16

FINAL BID SET

A4.04
WALL DETAILS



2 INTERIOR FOUNDATION WALL BETWEEN BASEMENT AND GARAGE TYPE 7

1 INTERIOR FOUNDATION WALL BETWEEN BASEMENT AND CRAWL TYPE 6

SCALE: 1" = 1'-0"

NOTE: THERE IS A CONFLICT BETWEEN STRUCTURAL WALL SECTIONS AND ARCHITECTURAL WALL SECTION. ARCHITECTURAL WALL SECTION TO TAKE PRECEDENCE.



44 Canal Center Plaza
Alexandria, Virginia 22314
Telephone 703.838.7766

ARCHITECT: HGA
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703-838-7766

STRUCTURAL ENGINEER
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GREAT FALLS, VA 22062
703-666-4286

MEP ENGINEER
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SUITE 400
FALLS CHURCH, VA 22042
703-666-4286

POTOMAC ENERGY GROUP, INC.
2801 TELESTAR DRIVE
SUITE 400
FALLS CHURCH, VA 22042
703-666-4286

CLIENT
ZCHT & ASSOCIATES, P.C.
10000 SAMPSON LIRCLE
PACONNA SPRING, VA 22062
540-682-4286

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

1. EXISTING CONCRETE FOUNDATION AND WALLS TO REMAIN. EXISTING ROOF TRUSSES TO REMAIN. EXISTING EXTERIOR WALLS TO REMAIN. EXISTING PORCH TO REMAIN. EXISTING DRIVEWAY TO REMAIN. EXISTING LANDSCAPE TO REMAIN. EXISTING UTILITY LINES TO REMAIN. EXISTING FENCE TO REMAIN. EXISTING DRIVEWAY TO REMAIN. EXISTING LANDSCAPE TO REMAIN. EXISTING UTILITY LINES TO REMAIN. EXISTING FENCE TO REMAIN.

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OVER BUILD ROOF AS PER
STRUCTURAL DRAWINGS

PRE-ENGINEERED ROOF TRUSSES
SEE STRUCTURAL DRAWINGS

HOUSE WRAP OF 5/8"
EXTERIOR GRADE
SHEATHING
FLASHING

9" NARROW STANDARD
CROSSHEAD (TYP.)

WINDOW BLOCKING (STANDARD)

WINDOW - SEE ELEVATIONS

SEE SPECIFICATIONS FOR EXTERIOR
TRIM INFORMATION

FLASHING

2X6 EXTERIOR WALLS WITH
R-19 INSULATION

MINERAL FIBER CEMENT
SIDING

SEE SPECIFICATIONS AND
FINISH SCHEDULE FOR
WINDOW HEAD, SILL AND
JAMB INFORMATION

WINDOW BLOCKING (STANDARD)

2 WINDOW HEAD AND SILL DETAIL
SCALE: 1-1/2" = 1'-0"

SEE SPECIFICATIONS AND
FINISH SCHEDULE FOR
WINDOW HEAD, SILL AND
JAMB INFORMATION

SHIM AS REQUIRED

WINDOW - SEE ELEVATIONS

BACKER ROD AND SEALANT

SEE SPECIFICATIONS FOR EXTERIOR
TRIM INFORMATION

3 WINDOW JAMB DETAIL
SCALE: 1-1/2" = 1'-0"

NOTE:
IF THERE IS A CONFLICT BETWEEN
STRUCTURAL WALL SECTIONS AND
STRUCTURAL TRIM SECTIONS,
STRUCTURAL TRIM SHALL TAKE PRECEDENCE

1 EXTERIOR WALL AT SCREEN PORCH
TYPE 8
SCALE: 1" = 1'-0"

DATE: 12/15/16

FINAL BID SET

A4.05

WALL DETAILS



HGA
44 Canal Center Plaza
Alexandria, Virginia 22314
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STRUCTURAL ENGINEER
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703-836-7766

MEP ENGINEER
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PAVING ENGINEER
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561-882-4286

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

1. PREPARED FOR: COUNTY OF LOUDOUN, DEPARTMENT OF TRANSPORTATION AND CAPITAL INFRASTRUCTURE
2. PROJECT: ROUND HILL GROUP RESIDENCE
3. SHEET: A4.07 CRAWL SPACE ACCESS DOOR SECTION
4. DATE: 12/15/16

DATE: 12/15/16
SHEET: A4.07
PROJECT: ROUND HILL GROUP RESIDENCE
SHEET: A4.07 CRAWL SPACE ACCESS DOOR SECTION

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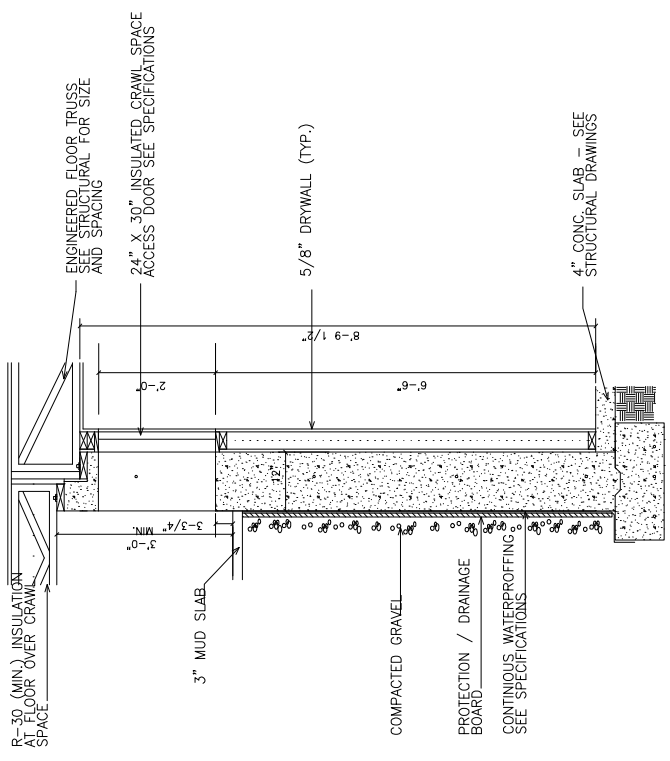
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PROJECT: ROUND HILL GROUP RESIDENCE
SHEET: A4.07 CRAWL SPACE ACCESS DOOR SECTION

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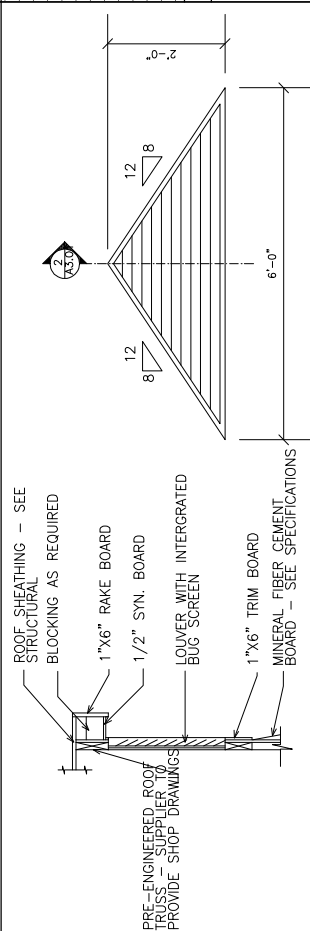
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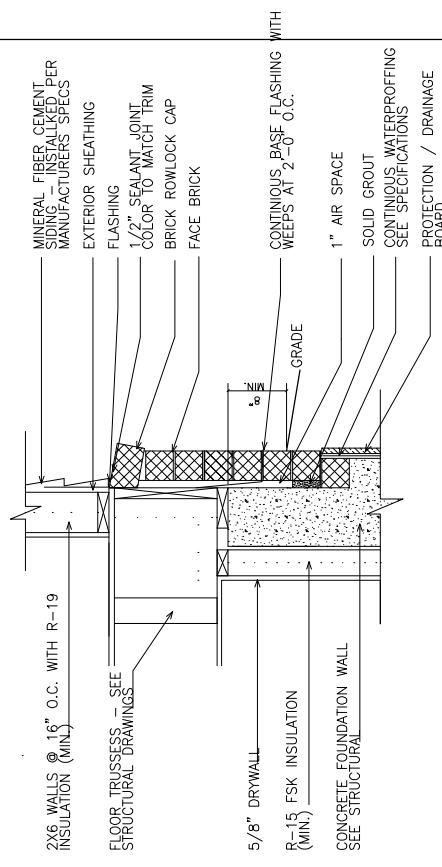


1 CRAWL SPACE ACCESS DOOR SECTION
SCALE: 1" = 1'-0"

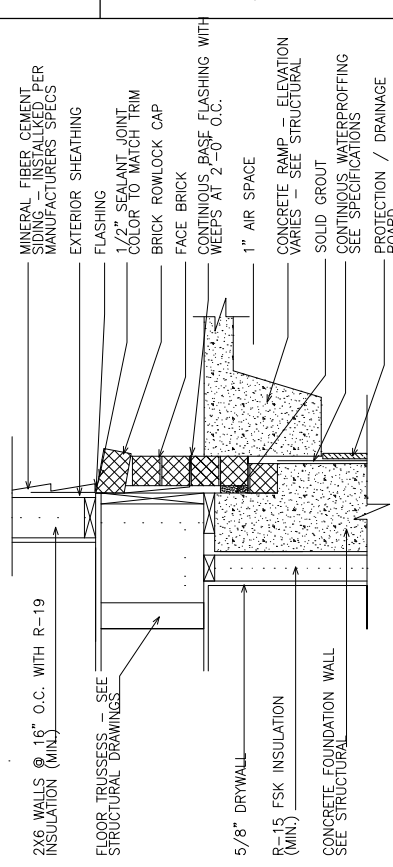


2 LOUVER SECTION
SCALE: 1" = 1'-0"

3 LOUVER ELEVATION
SCALE: 1" = 1'-0"



4 WALL / GRADE DETAIL
SCALE: 1" = 1'-0"



5 RAMP / WALL DETAIL
SCALE: 1" = 1'-1/2"





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Telephone 703.838.7766

ARCHITECT: HGA
HGA ARCHITECTS, INC.
44 CANAL CENTER PLAZA, SUITE 100
ALEXANDRIA, VA 22314
703.838.7766

STRUCTURAL ENGINEER
8612 LOUSTON DRIVE
GREAT FALLS, VA 22062
703.465.4286

POTOMAC ENERGY GROUP, INC.
2801 TELESTAR SUITE 400
FALLS CHURCH, VA 22042
703.465.4286

MECHANICAL ENGINEER
ZICHT & ASSOCIATES, P.C.
17000 WOODBURN DRIVE
FALLS CHURCH, VA 22042
561-885-4286

ELECTRICAL ENGINEER
ZICHT & ASSOCIATES, P.C.
17000 WOODBURN DRIVE
FALLS CHURCH, VA 22042
561-885-4286

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

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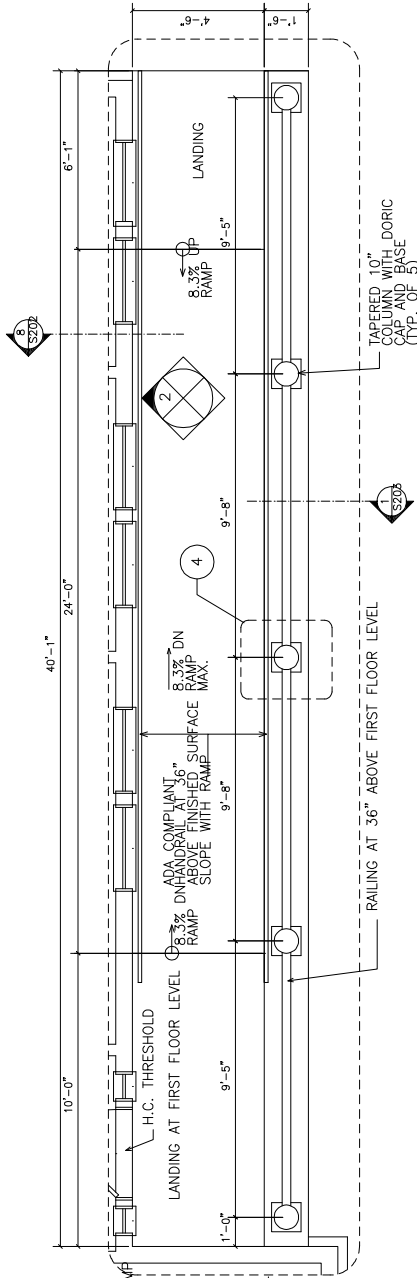
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2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
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12	REVISION	
13	REVISION	
14	REVISION	
15	REVISION	
16	REVISION	
17	REVISION	
18	REVISION	
19	REVISION	
20	REVISION	

HGA NO: 3204-003-000

DATE: 12/9/16

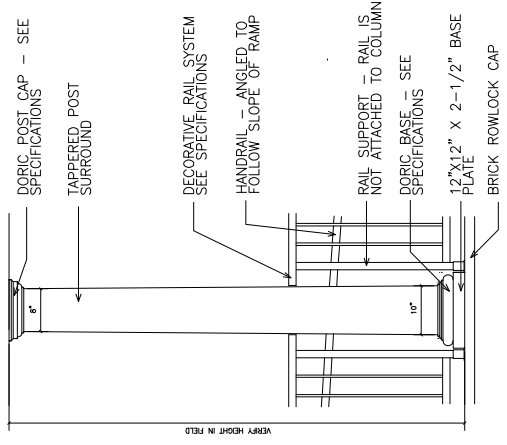
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A5.02
FRONT RAMP



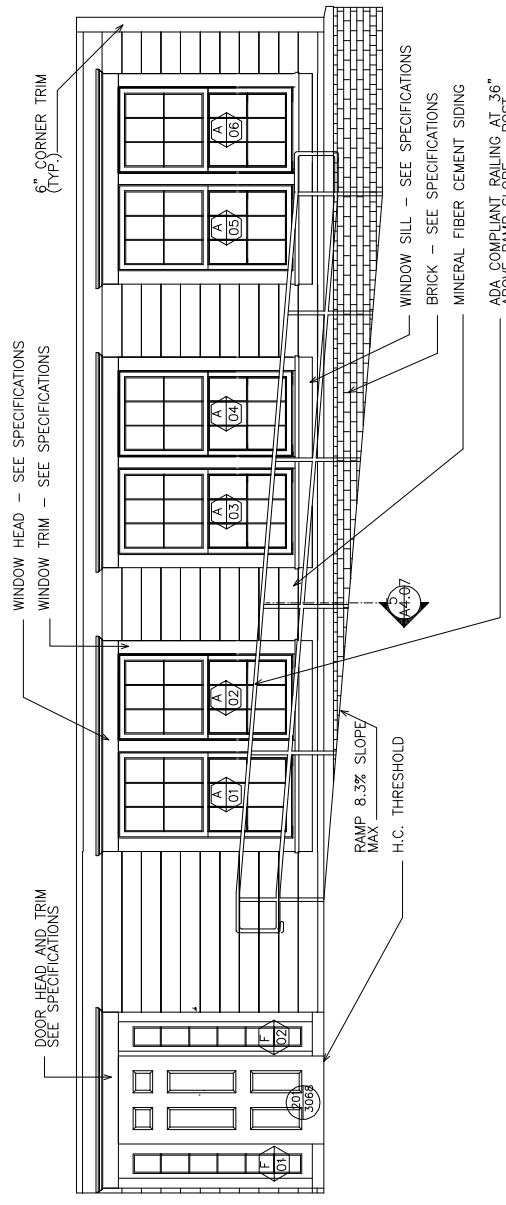
FRONT RAMP

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



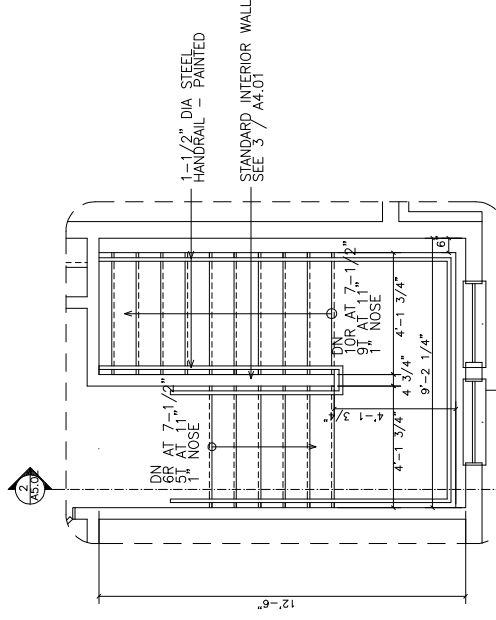
FRONT POST ELEVATION

SCALE: 1" = 1'-0"

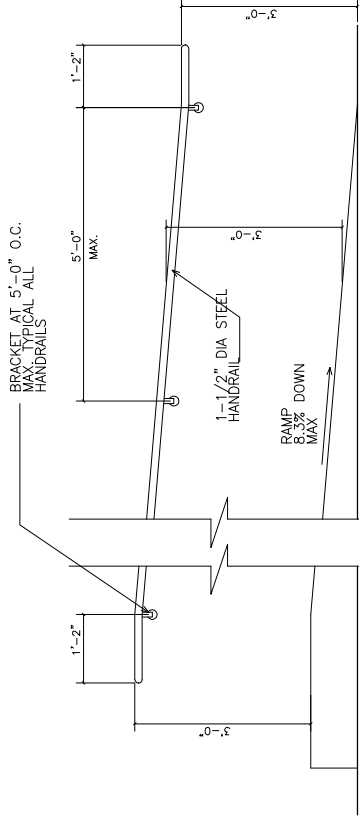


FRONT RAMP HOUSE ELEVATION

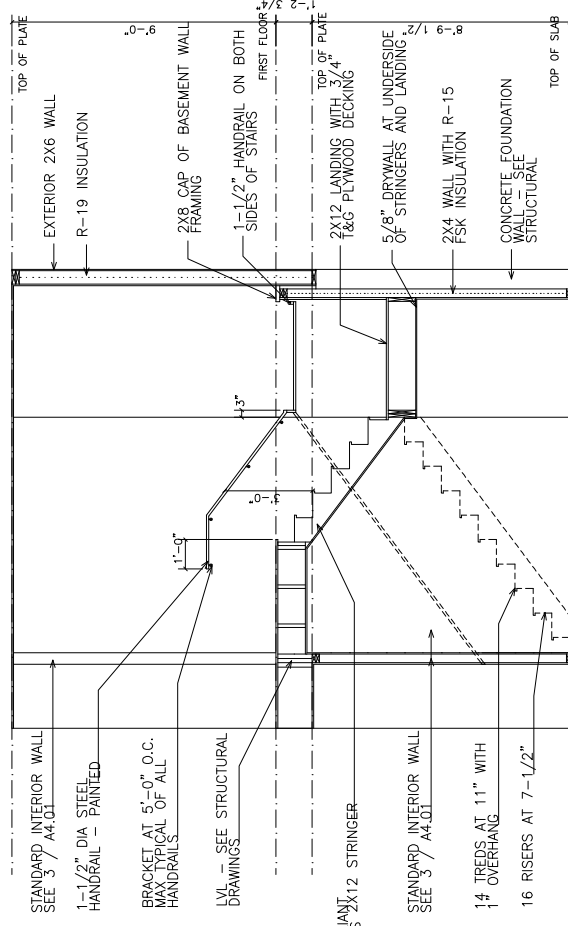
SCALE: 1/2" = 1'-0"



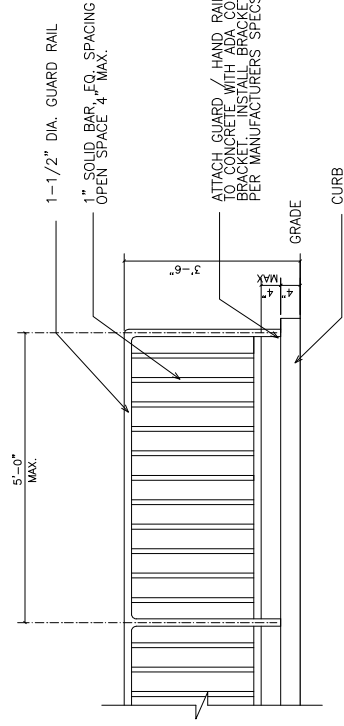
1 STAIRS - ENLARGED PLAN
A5.03 SCALE: 1/2" = 1'-0"



3
A5.03



2 STAIRS - SECTION
A5.03 SCALE: 1/2" = 1'-0"



4
A5.03

TYPICAL GUARDRAIL

SCALE: 1" = 1'-0"



44 Canal Center Plaza
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT: HENRIKSEN
ARCHITECTS
HGA ARCHITECTS
44 CANAL CENTER PLAZA
ALEXANDRIA, VA 22314
703-836-7766

STRUCTURAL ENGINEER
8912 LOUSTON DRIVE
GREAT FALLS, VA 22062

MEP ENGINEER
2801 TELESTAR DRIVE
SUITE 400
FALLS CHURCH, VA 22042

POTOMAC ENERGY GROUP, INC.
70000-0000
10000-0000

ZCHT & ASSOCIATES, LLC
10000-0000
10000-0000

PAWONNA GROUP, INC.
500-000-0000

COUNTY OF
LOUDOUN, VA

DEPARTMENT OF
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ROUND HILL GROUP
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17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

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HGA NO: 3204-003-000

DATE: 12/9/16

FINAL BID SET

A6.01
SCHEDULES

DOOR SCHEDULE

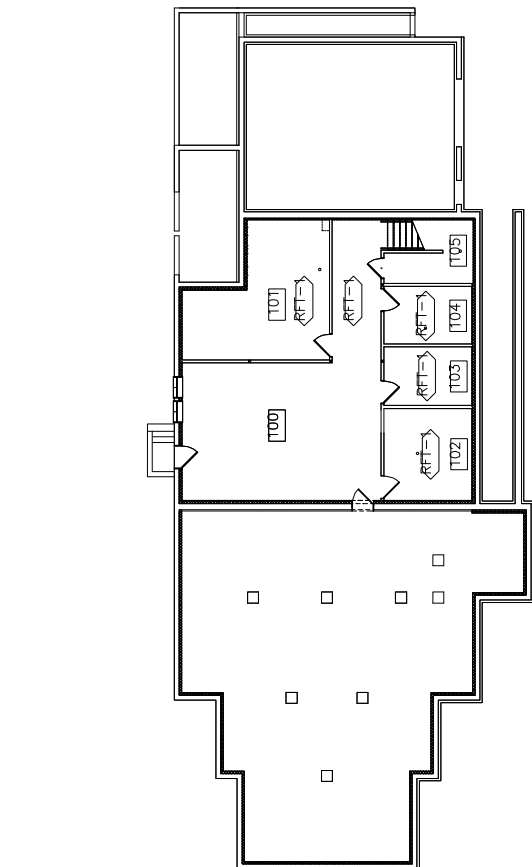
SYMBOL	LOCATION	SIZE	STYLE	U VALUE (W8)	HARDWARE SET	LOCK FUNCTION	ELEVATION	REMARKS
FLOOR (A/G)								
101	U1	5'-0" X 7'-0"	SINGLE HINGED	0.75	EX-A1		1 / A/G/2	
102	U2	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
103	U3	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
104	U4	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
105	U5	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
106	U6	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
107	U7	5'-0" X 5'-0"	SINGLE HINGED	N/A	LATCH BAL BY DOOR VENDOR		3 / A/G/2	PRE-MANUFACTURED IRON FRAME ACCESS DOOR BY VENDOR
FEST FLOOR (A/G/2)								
108	108	5'-0" X 7'-0"	SINGLE HINGED	0.75	EX-A1		1 / A/G/2	
109	109	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
110	110	5'-0" X 6'-6"	SINGLE HINGED	N/A	6		2 / A/G/2	
111	111	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
112	112	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
113	113	5'-0" X 6'-6"	SINGLE HINGED	N/A	1		2 / A/G/2	
114	114	5'-0" X 6'-6"	SINGLE HINGED	N/A	6		2 / A/G/2	
115	115	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
116	116	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
117	117	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
118	118	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
119	119	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
120	120	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
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255	255	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
256	256	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
257	257	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
258	258	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
259	259	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
260	260	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
261	261	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
262	262	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
263	263	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
264	264	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
265	265	5'-0" X 6'-6"	SINGLE HINGED	N/A	5		2 / A/G/2	
266	266	5'-0" X 6'-6"	SINGLE HINGED					

FINISH SCHEDULE

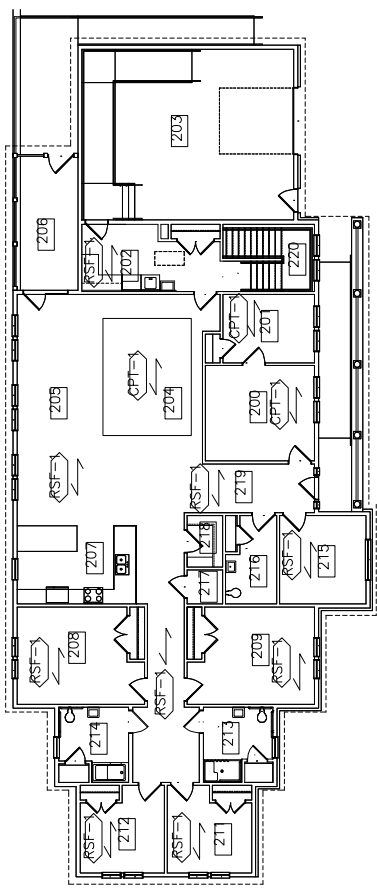
ROOM #	ROOM NAME	N WALL	E WALL	S WALL	W WALL	FLOOR	CELING	NOTES
BASEMENT (NOT)								
B01	OPEN STORAGE	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	GYP BD	
B1	MECHANICAL	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	NONE	
B2	STORAGE	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	NONE	
B3	IT CLOSET	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	ACT-1	
B4	UTILITY	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	NONE	
B5	STORAGE	PT-1	PT-1	PT-1	PT-1	PT-1/RSB-1	GYP BD	
FIRST FLOOR (NOT)								
200	ADMIN OFFICE	PT-1	PT-1	PT-1	PT-1	GPT-1	PROVIDE CROWN MOLLING	
201	OFFICE	PT-1	PT-1	PT-1	PT-1	GPT-1	PROVIDE CROWN MOLLING	
202	MAP / LAUNDRY	PT-1	PT-1	PT-1	PT-1	GPT-1/CTB-1	GYP BD	
203	GARAGE	PT-1	PT-1	PT-1	PT-1	CS-1	SNAP FINISH - CS-1	
204	LIVING	PT-1	PT-1	PT-1	PT-1	RSP-1/GPT-1	PROVIDE CROWN MOLLING	
205	DINING	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
206	SCREEN PORCH	PT-1	PT-1	PT-1	PT-1	CTF-1	PROVIDE CROWN MOLLING	
207	KITCHEN	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
208	BED #1	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
209	BED #2	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
210	CORRIDOR	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
211	BED #3	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
212	BED #4	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
213	BATH #1	PT-1	PT-1	PT-1	PT-1	CTF-1	PROVIDE CROWN MOLLING	
214	BATH #2	PT-1	PT-1	PT-1	PT-1	CTF-1	PROVIDE CROWN MOLLING	
215	MURDER	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
216	POWER	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
217	STORAGE	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
218	CLOSET	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
219	FOYER	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	
220	STAR	PT-1	PT-1	PT-1	PT-1	RSP-1	PROVIDE CROWN MOLLING	

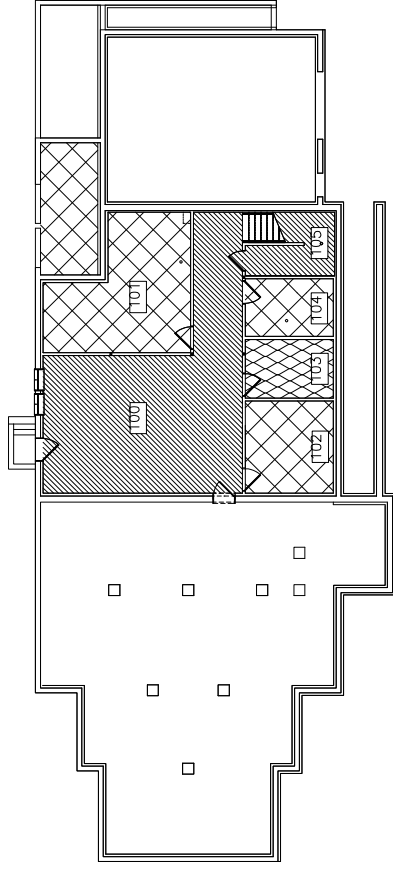
- NOTES
1. ALL WALL BASE SHALL BE CSB-D, UNO.
 2. REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN DIRECTION.
 3. REFER TO WALL FINISH PLANS AND ELEVATIONS FOR AGENT LOCATIONS.
 4. ALL WALLS TO BE GPT-D, UNO.
 5. ALL UPPER & LOWER CARNETS TO BE CS-AM-D, UNO.
 6. ALL COUNTERTOPS TO BE CSB-D, UNO.
 7. PROVIDE CROWN MOLLING AT LEVEL TWO ROADS, SNOUT LINING.

FINISHES	
RSF-1	AIA DESIGN ALPINE OAK CORE-4000A
RPT-1	AMSTRONG STANDARD EXCELLENCE, COLOR: ANTIQUE WHITE 5911
WPD-1	WOOD BASE AT CORRIDOR & ENTRY REARS - SNOUT WAMP
RPB-1	WONKAWATE #11 TRADITIONAL 6" WALL BASE, COLOR: REDE AD
PT-1	SHERWIN WILLIAMS SW700A GRENE
PT-2	ALL DOORS/TRAIL SHERWIN WILLIAMS SW700A THRESHOLD TAPE
PT-3	SHERWIN WILLIAMS SW900
PT-4	SHERWIN WILLIAMS SW900
PT-5	SHERWIN WILLIAMS SW700
WIT-1	ARTISTICAL CERAMICS KARDON PEITON ART BLUES SPA
CPT-1	CARPET TILE LIES NON-RENDERED GYPSA, PINE BPT, BENT
CTF-1	ARTISTICAL CERAMICS KARDON PEITON ART BLUES SPA
CTW-1	GRANITE TILE BASE
CTW-2	SHERWIN WILLIAMS SW700A
CTW-3	SHERWIN WILLIAMS SW700A
CTW-4	SHERWIN WILLIAMS SW700A
CTW-5	SHERWIN WILLIAMS SW700A
CTW-6	SHERWIN WILLIAMS SW700A
CTW-7	SHERWIN WILLIAMS SW700A
CTW-8	SHERWIN WILLIAMS SW700A
CTW-9	SHERWIN WILLIAMS SW700A
CTW-10	SHERWIN WILLIAMS SW700A
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CTW-99	SHERWIN WILLIAMS SW700A
CTW-100	SHERWIN WILLIAMS SW700A

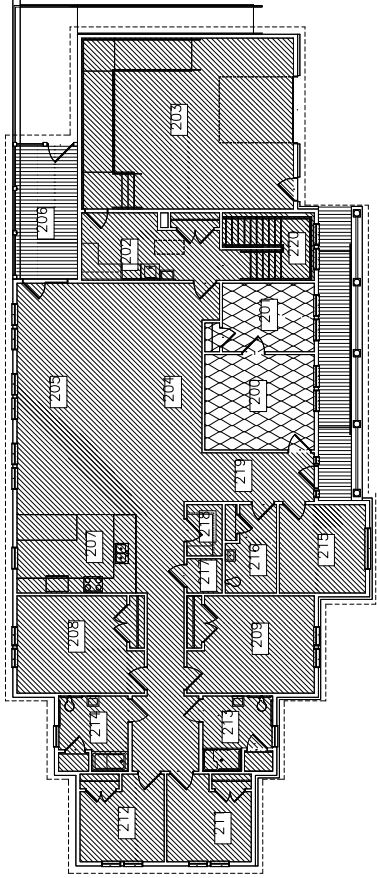


1 BASEMENT KEY MAP
SCALE: 1/8" = 1'-0"

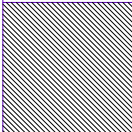
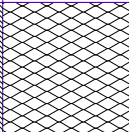
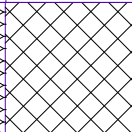




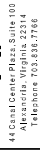
1
A7.02
CEILING FINISH - BASEMENT
SCALE: 1/8" = 1'-0"



2
A7.02
CEILING FINISH - FIRST FLOOR
SCALE: 1/8" = 1'-0"

CEILING FINISH LEGEND	
	GYPSUM BOARD (GYP. BD.)
	ACOUSTIC TILE (SEE SPECIFICATIONS) (ACT-1) ACOUSTICAL CEILING TILE TO BE CENTERED IN ROOM UNQ. IFF POSSIBLE GC TO VERIFY USE OF act SILVERS ARE AVOIDED IN TILE
	EXPOSED (EXPOSED)
	ARMSTRONG WOODHAVEN WOOD BEADBOARD 5/8"x1 3/8" PLANK: COLOR BEADBOARD 1149, EDGE BEVEL TONGUE AND GROOVE (BEAD BD.)

HATCHES DENOTE AREAS ONLY - COORDINATE ON SITE ACOUSTIC TILE LAYOUT WITH LIGHT FIXTURE LOCATIONS



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ZICHT & ASSOCIATES, PLLC
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540-882-4266

COUNTY OF
LOUDOUN, VA

DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17394 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

[illegible]

HGA NO: 3204-003-00

DATE: 12/9/16

FINAL BID SET

A8.03
FURNITURE PLAN



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



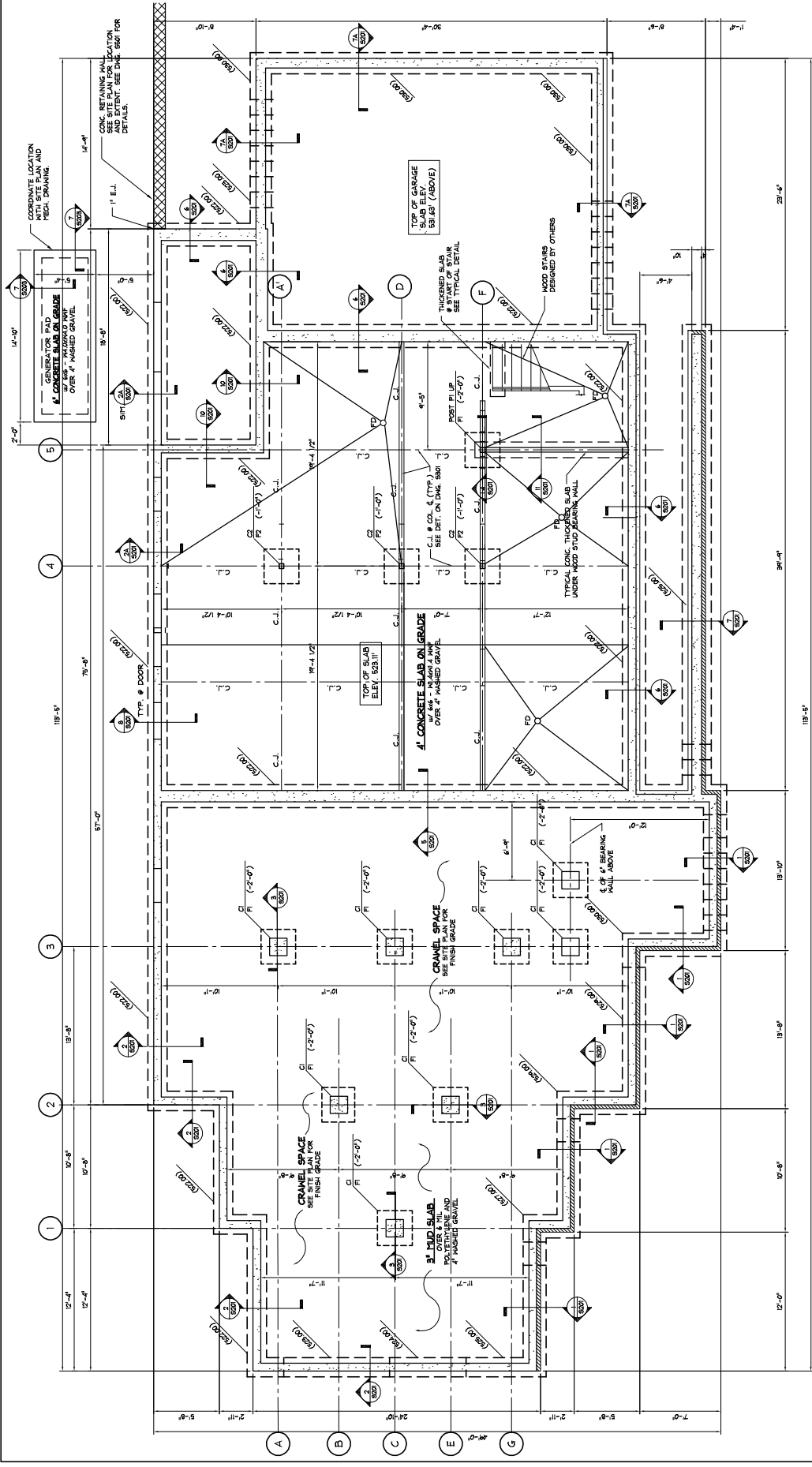
HA
401 EAST MAIN STREET, SUITE 100
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PAINTING SPECIALIST
HGA ARCHITECTS AND INTERIORS
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FAX: 703.277.7778

COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE
ROUND HILL GROUP
RESIDENCE
1734 LEROYWOOD PLACE
ROUND HILL, VIRGINIA 20141

PROJECT NO. 2004-003-00
75% CONSTRUCTION SET
12/18/2015
100% CONSTRUCTION SET
6/10/16
PERMIT SET
7/22/18

DATE: 3/22/17
BID SET
S101
BASEMENT & FOUNDATION PLAN



BASEMENT AND FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- NOTES:
1. TOP OF SLAB ELEVATION, SEE PLAN.
 2. SLAB ON GRADE SHALL BE 4" THICK REINFORCED WITH #4 @ 12" O.C. OVER 6" POLYETHYLENE VAPOR BARRIER AND 4" MARKED GRAVEL.
 3. FOUNDATION WALLS SHALL BE 12" THICK REINFORCED WITH #4 @ 12" O.C. OVER 6" POLYETHYLENE VAPOR BARRIER AND 4" MARKED GRAVEL.
 4. DEEP FOOTING ELEVATIONS AS REQUIRED TO OBTAIN SOIL BEARING CAPACITY OR TO CLEAR UNDERGROUND PIPING. SEE PLYING AND SITE PLAN.
 5. FOUNDATION WALLS SHALL BE 12" THICK REINFORCED WITH #4 @ 12" O.C. OVER 6" POLYETHYLENE VAPOR BARRIER AND 4" MARKED GRAVEL.
 6. SEE SITE PLAN FOR ALL EXISTING MARKS SUCH AS SIDE WALKS, PAVING, CURBS, ETC.
 7. SEE SITE PLAN FOR ALL EXISTING CONDUITS AND UTILITIES. THE ARCHITECT/ENGINEER SHALL COORDINATE WITH THE ELECTRICAL ENGINEER WITH THE ARCHITECT/ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
 8. 18" X 24" CONCRETE PIER REINFORCED WITH 4-#8 VERT. # 8 TIES # 12 O.C.
 9. FOOTINGS: #1 3'-0" X 3'-0" CONC. REIN. WITH 3-#5 (S) EACH WAY.
 10. COLUMNS: #2 12" X 12" CONC. REIN. WITH 3-#5 (S) EACH WAY.
 11. COORDINATE THE LOCATION OF ALL OPENINGS THROUGH BASEMENT WALLS WITH ARCH. DRAWINGS.
 12. PROVIDE DETAILS FOR ALL OPENINGS THROUGH BASEMENT WALLS WITH ARCH. DRAWINGS.
 13. SEE PLYING DRAWINGS FOR LOCATION OF ALL FLOOR DRAINS AND SLOPES IN CONCRETE SLAB. TOP OF FLOOR DRAIN EL. 522.14.
 14. PROVIDE WATERPROOFING MEMBRANE BELOW GRADE AT EXTERIOR FACE OF CONCRETE WALL.



H&A
ARCHITECTS
1800 Center Plaza, Suite 100
Alexandria, Virginia 22314
Telephone 703.831.7788

ARCHITECT: H&A
PROJECT: 1800 CENTER PLAZA, SUITE 100
SHEET: 1800-003-000

STRUCTURAL ENGINEER:
POTOMAC ENGINEERING, INC.
1800 CENTER PLAZA, SUITE 100
ALEXANDRIA, VA 22314
703-465-5282

SEAL: [Stamp]
DATE: 12/18/2015

PROJECT: 1800 CENTER PLAZA, SUITE 100
SHEET: 1800-003-000

PROJECT: 1800 CENTER PLAZA, SUITE 100
SHEET: 1800-003-000

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SHEET: 1800-003-000

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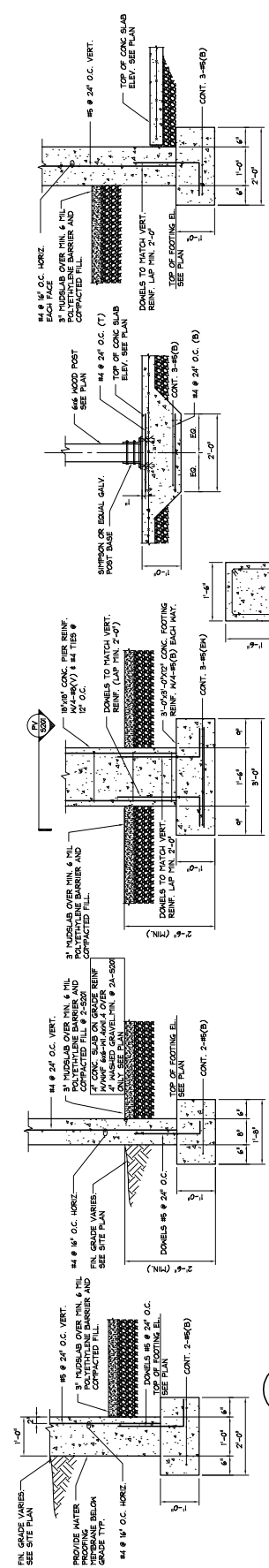
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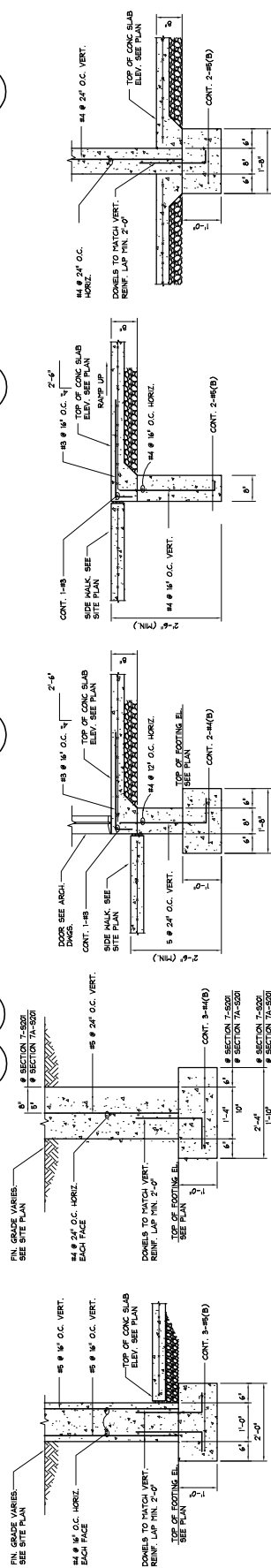
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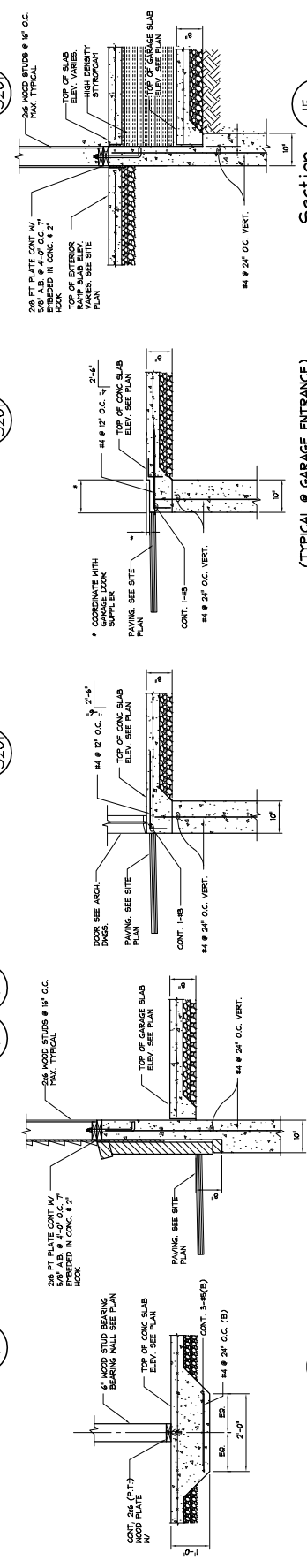
PROJECT: 1800 CENTER PLAZA, SUITE 100
SHEET: 1800-003-000



Section 1 S201
Section 2 S201
Section 3 S201
Section 4 S201
Section 5 S201



Section 6 S201
Section 7 S201
Section 8 S201
Section 9 S201
Section 10 S201



Section 11 S201
Section 12 S201
Section 13 S201
Section 14 S201
Section 15 S201





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CIVIL ENGINEER
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**COUNTY OF
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DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE
17394 ARROWWOOD PLACE
ROUND HILL, VIRGINIA 20141

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

NAME OF THE STATE OF VERMONT.

ALAN ARCHITECT
1000

NO	DESCRIPTION	DATE
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ISSUANCE HISTORY - THIS SHEET	
AGA NO:	3204-003-00

15% CONSTRUCTION SET
12/18/2015

100% CONSTRUCTION SET	6/10/16	7/12/16
PERMIT SET		

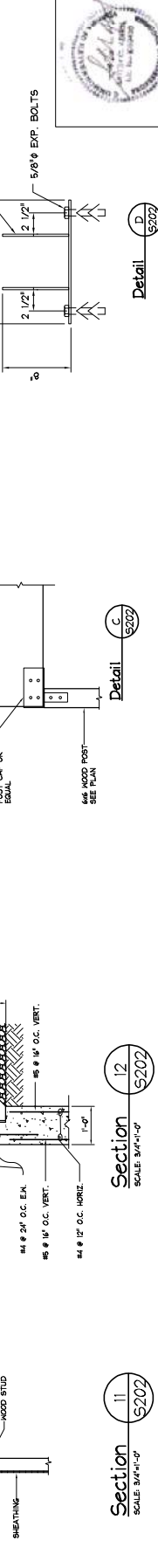
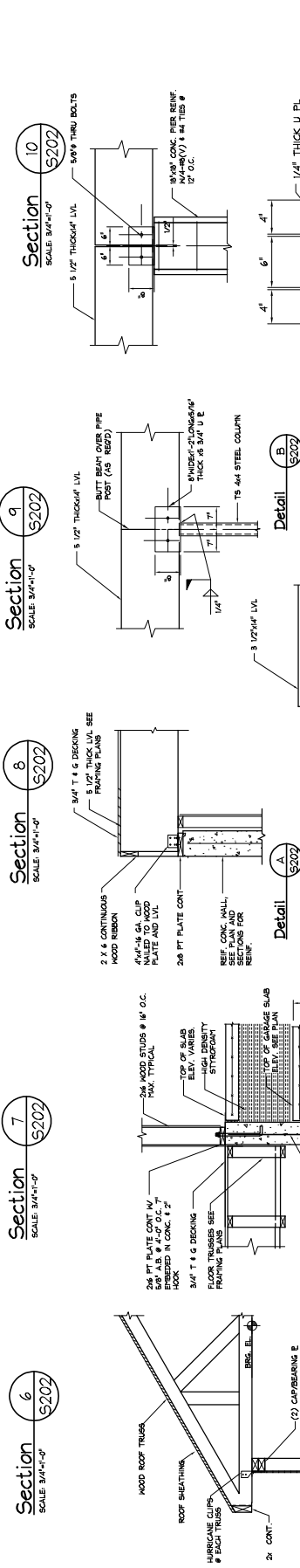
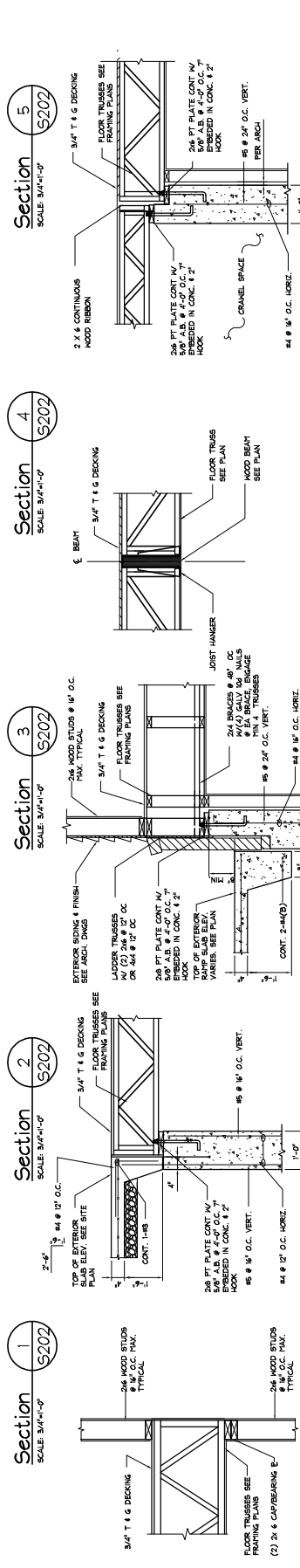
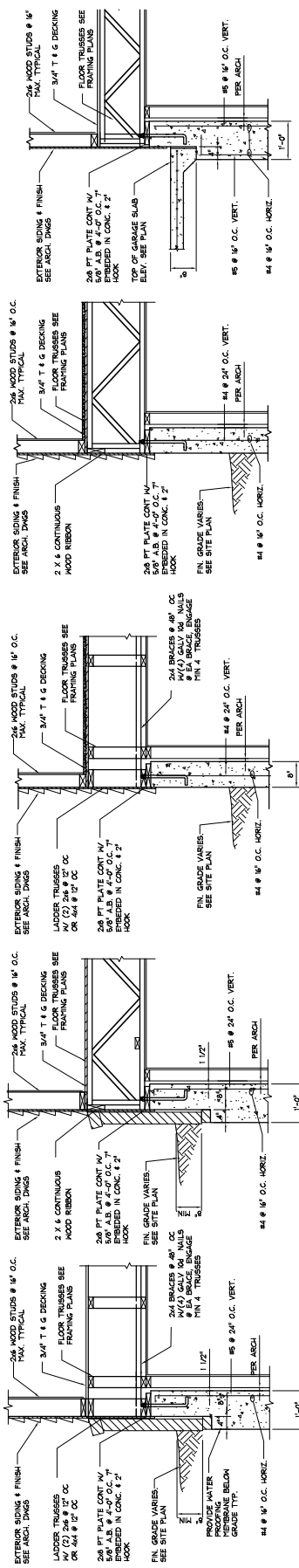
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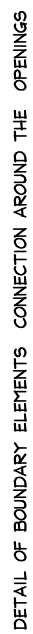
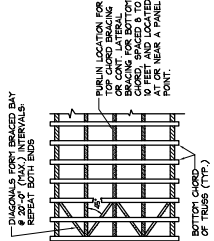
DATE:	3/22/17
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BID SET	
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S202

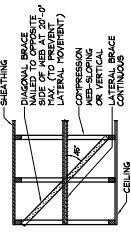
SECTIONS & DETAILS





b. IF PURLINS ARE USED, DIAGONAL TOP CHORD BRACING IS REQUIRED AT EACH END. IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.

5) MOOD ROOF TRUSSES ARE TO BE DESIGNED FOR THE WOOD FABRICATOR BY A PROFESSIONAL ENGINEER AND SEALED CALCULATIONS AND DRAWINGS ARE TO BE SUBMITTED FOR REVIEW.



Basic Wind Speed (3 Second Gust) = 115 mph
Importance Factor 1.0
Exposure: B; Category II

SEISMIC LOADS:
Seismic Design Group: I
Seismic Design Category: B

CONCRETE. All concrete shall be 4,000 psi at 28 days. All concrete shall be designed to weather shall be air entrained 4% air. All structural concrete has been designed by the Ultimate Strength method and is in accordance with the provisions of ACI 318-65. All concrete to be normal weight concrete.

CONCRETE STRENGTH, PROPORTIONS AND TESTING. Concrete strength shall not be less than 4,000 pounds per square inch at 28 days. The mix design shall be prepared by an independent testing laboratory approved by the Owner using materials to be used on the job. The laboratory shall submit a report showing the mix design, the test strength at maximum 1,000 psi increments and the test strength shall be submitted to the Owner within 10 days of the test. Slump shall not exceed 4 inches.

concrete cover as follows:

- Concrete poured against earth : 3".
- Formed concrete exposed to weather or in contact with earth : 2" for bars larger than #5
- 1-1/2" for #5 and smaller bars.
- Slabs on grade, unless otherwise noted, reinforcement is to be 2" from top of slab.

[illegible]

WALLS: PROPPING. Extreme care and proper prearranged measures must be taken so as not to damage brick or masonry walls, due to equipment, and/or earth pressure and shoring, rock excavation, and/or other construction work. The full load of the building is on the walls and the walls are loaded.

MASONRY. All brick and concrete block masonry walls shall conform to Building Code requirements for masonry structures. (ACI 530/ASCE 5.7/MS 402).

All materials shall be in accordance with the current issues of the specifications and standards as listed below. Contractor shall furnish certificates, test reports or other acceptable evidence of compliance with the specifications and standards listed below.

402 Concrete Building Bricks, ASTM C 156, solid load-bearing units, ASTM C 156 Type brick, ASTM C 216

Master shall advise the property and preparation requirements of ASTM C 210. All concrete masonry units shall be tested and certified to meet the requirements of ASTM C 210. All masonry units, mortar and grout for masonry materials shall conform to ASTM C 210.

Masonry joint reinforcing shall be installed pre-cast, side-bite-type joints conforming to ASTM A-302. All masonry joints shall be pre-cast, formed metal mesh of the type specified in the general specifications. Distal anchors shall be minimum 1/2" long and turned up 1/2" inch at the corner area.

BRICKS: Provide a minimum of six courses of solid brick or two courses of solid block bonding on each side of the joint seats and concrete slabs bearing in masonry. Unless otherwise noted, provide nine courses of solid brick or three courses of solid block eight-inch wide by two feet eight inch minimum length at all structural steel bearing. Provide 6"x8"x8" bearing plate with 2-1/2" diameter x 1-1/2" bearing bolts under steel beam, joists and channels, unless otherwise noted. Minimum beam to bearing bolts.

At interior non-load bearing 6" masonry wall provide 2- $2^{-1/2}$ " x $2^{-1/2}$ " x $5/16$ " up to 4'-0" openings. Provide WT 5 x 8.5 for openings from 4'-0" up to a maximum of 8'-0".

with calculations signed and stamped by a registered structural engineer in the state of jurisdiction shall be submitted for approval prior to fabrication. Shop drawings for the stairs and handrails shall include profile, sections, elevations, sizes, connections, anchorage, size and type of fasteners, and all other accessories required for complete installation.

[illegible]

FRAMING: Plywood members shall be manufactured in accordance with National Board of Fire Underwriters (NBFU) No. 1. All members shall be clear-knotted with National Board of Fire Underwriters (NBFU) No. 1. All members shall be clear-knotted with the same grade and NBFU report number. Minimum section and connections shall be in accordance with the National Forest Products Association's National Design Specifications for Wood Construction.

corrosion resistant g gage adjustable wire ties @ 16" o.c. each stud. Provide 12" gypsum wall board or rigid sheathing on face of studs. Attach wire ties directly to studs and not to the sheathing along.

shall be inspected by an inspection agency under the direct supervision of a registered Professional Engineer in the state of jurisdiction. Field inspection reports shall be filed with the Structural Engineer within five days of the time of actual inspection. Inspectors must be notified of all phases of construction and welding by the general contractor.

100

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INTERNATIONAL JOURNAL OF

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STRUCTURAL ENGINEER
SKAR, LLC
9812 LOCUST HILL DRIVE

FALLS CHURCH, VA 22042
703-683-6000

LOUDBOUN, VA

INFRASTRUCTURE

ROUND HILL, VIRGINIA 2014

ISSUANCE HISTORY - THIS SUBJECT	
HGA NO:	9204-003-00

6/10/18	PERMIT SET
7/22/18	

BID SET



HA ARCHITECTS
4000 N. GARDEN AVENUE, SUITE 100
ARLINGTON, VIRGINIA 22204
TEL: 703.555.7788

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COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

DATE: 12/18/2015
PROJECT: 3204-003-00
SHEET: 1 OF 2

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DATE: 12/18/2015
PROJECT: 3204-003-00
SHEET: 1 OF 2

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PROJECT: 3204-003-00
SHEET: 1 OF 2



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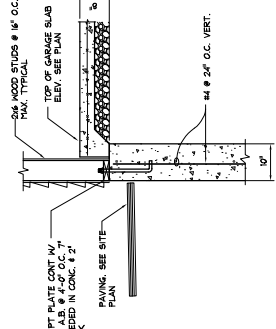
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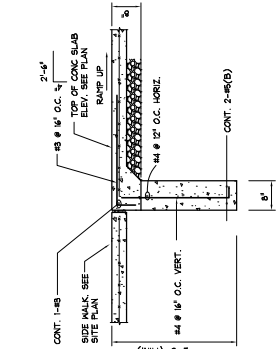
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RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

PROJECT NO. 2004-003-00
75% CONSTRUCTION SET
12/18/2015
100% CONSTRUCTION SET
6/10/16
PERMIT SET 7/12/16

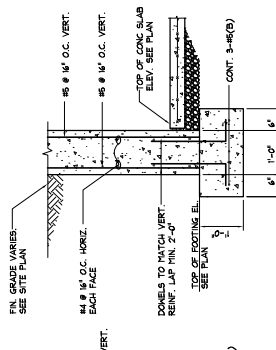
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BID SET
S402
ALT. SECTIONS



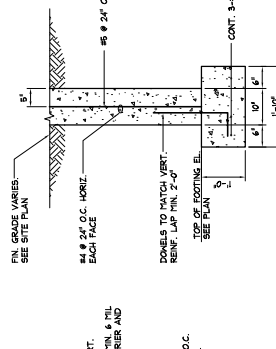
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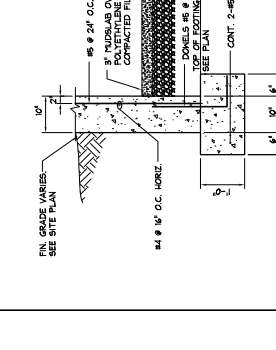
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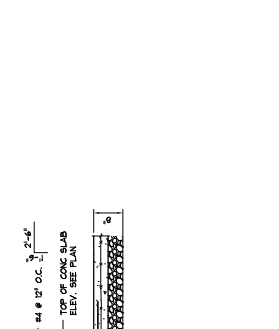
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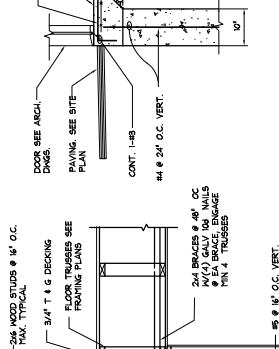
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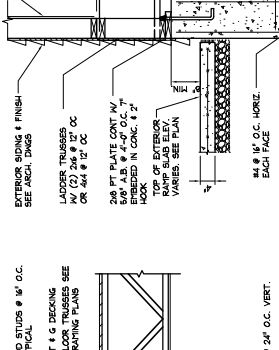
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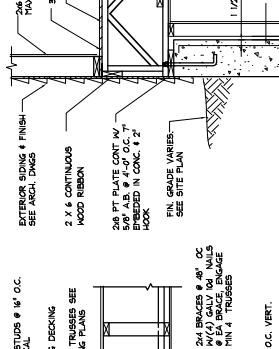
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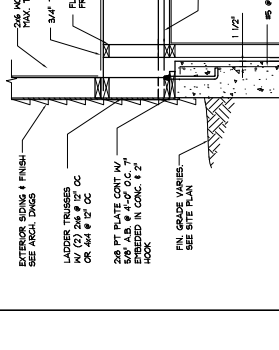
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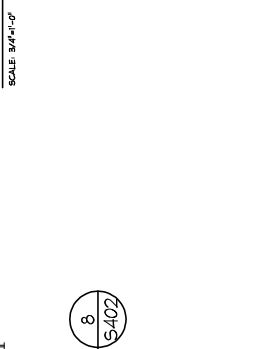
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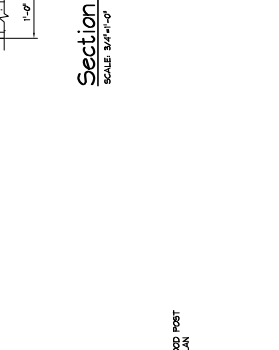
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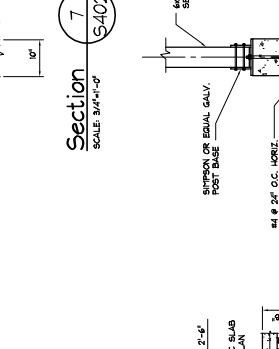
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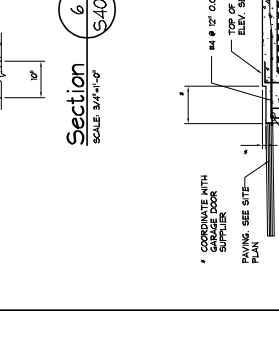
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Section 13
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Section 14
SCALE 3/4\"/>



Section 15
SCALE 3/4\"/>





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**COUNTY OF
LOUDOUN, VA**
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE
17394 ARROWWOOD PLACE
ROUND HILL, VIRGINIA 20141

I HENRY CUNY, THAT THE PLAN SPECIFICALLY
ON REPORT WILL INCREASE BY 10% OR MORE AN
ESTIMATED \$600 MILLION AND THAT I AM A SILENT
LICENSED APPLICANT UNDER THE
LAW FOR THE STATE OF NEW YORK.

NAME, ADDRESS, CITY, STATE, ZIP

[illegible]

HGA NO: 3204-003-00

75% CONSTRUCTION SET
12/18/2015

100% CONSTRUCTION SET
6/10/16

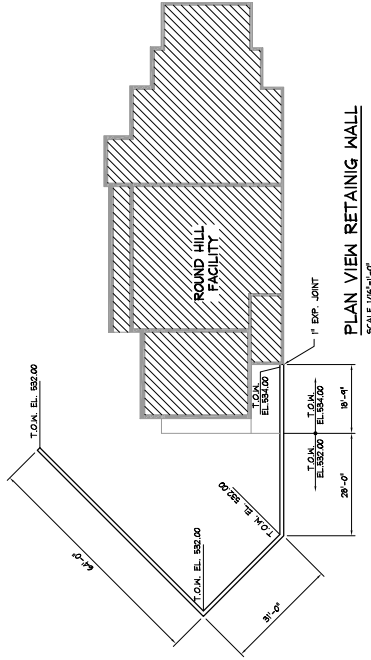
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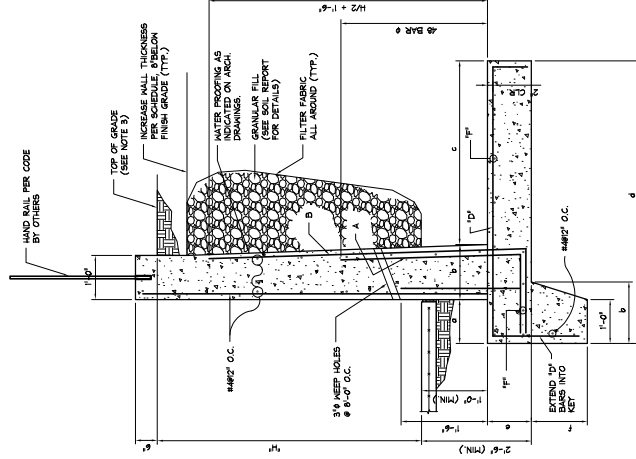
BID SET

S501

CONCRETE RETAINING WALL PLAN & SECTIONS



NOTE:
GC TO COORDINATE THE FINISHED GRADE AND TOP OF WALL ELEVATIONS WITH SITE PLAN. RESOLVE ALL DISCREPANCIES WITH THE SITE ENGINEER PRIOR TO DETAILING OF RETAINING WALL



NOTES.

- NOTES:
1. RETAINING WALLS WERE DESIGNED FOR THE FOLLOWING:
 - 2500 psf ALLOWABLE SOIL BEARING PRESSURE.
 - 60 psf ACTIVE EARTH PRESSURE.
 - FRICTION COEFFICIENT = 0.5
 - $f_c = 4000$ psi (#28 BARS)
 2. SEE DRAWING 5301 FOR CONTROL JOINT & EXP. JOINT DETAILS
 3. BACKFILL RETAINING WALL AFTER THE TEACHES IT'S 28 DAY STRENGTH

[illegible]

REFERENCED PLAN NOTES

- 1 PROVIDE ARCHITECTURAL BRICK VENT FOR CRAWL SPACE VENTILATION INSTALLED PER MANUFACTURER REQUIREMENTS. REFER TO LOWER SCHEDULE ON M2.00.
- 2 PROVIDE INLINE EXHAUST FAN SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATION. PROVIDE FAN WITH 1/2" MESH SCREEN FOR INLET FROM CRAWL SPACE. PROVIDE FLEXIBLE DUCTWORK CONNECTION TO NECK OF ARCHITECTURAL BRICK VENT FOR DISCHARGE.
- 3 WALL MOUNTED DUCTLESS AIR CONDITIONING UNIT INSTALLED PER MANUFACTURER GUIDELINES.
- 4 PROVIDE 1" MIN. INSULATED CONDENSATE DRAIN ABOVE COIL MINIMUM 1/4" PER FOOT IN PACKAGED UNIT. PROVIDE 1/2" MIN. INSULATED CONDENSATE DRAIN ABOVE COIL MINIMUM 1/4" PER FOOT IN PACKAGED UNIT.
- 5 HORIZONTAL DUCTED EXHAUSTOR UNIT SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS AND GUIDELINES.
- 6 PROVIDE ENERGY RECOVERY VENTILATOR SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS AND GUIDELINES.
- 7 ROUTE CONDENSATE TO SPILL INTO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
- 8 PROVIDE EXTERIOR REFRIGERANT PIPING WITH SAVERMANN UNSET DUCT KIT COVER OR EQUIVALENT.
- 9 INSTALL EXTERIOR HEAT PUMP CONDENSING DRAIN TO WITH IN 12" OF FINISHED EXTERIOR GRADE.
- 10 PROVIDE PPE SUPPORTS AS REQUIRED. MINIMUM 2'-0" ON CENTER.
- 11 COORGE MECHANICAL WORK/JOBS COVER WITH 0.35 SQ. FT. MINIMUM FREE AREA. PROVIDE CONTINUOUS SHEET METAL FLASHING AT NECK AND CONNECT OUTSIDE AND EXHAUST AIR DUCTWORK FROM EXCL.
- 12 PROVIDE EXTERIOR REFRIGERANT PIPING WALL SEAL PENETRATION SYSTEM APEROX OR EQUIVALENT.
- 13 PROVIDE EXTERIOR CONDENSATE DRAIN TO WITH IN 12" OF FINISHED EXTERIOR GRADE.
- 14 PROVIDE SEALS AND ELECTRICAL UTILITY HAZARD INSTALL PER MANUFACTURER GUIDELINES. UNIT SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT CONTROL. SET TO MAINTAIN 69°F - FIELD ADJUSTABLE.

Applicable to this drawing only



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DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
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RESIDENCE
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ROUND HILL, VIRGINIA 20141

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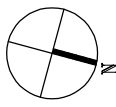
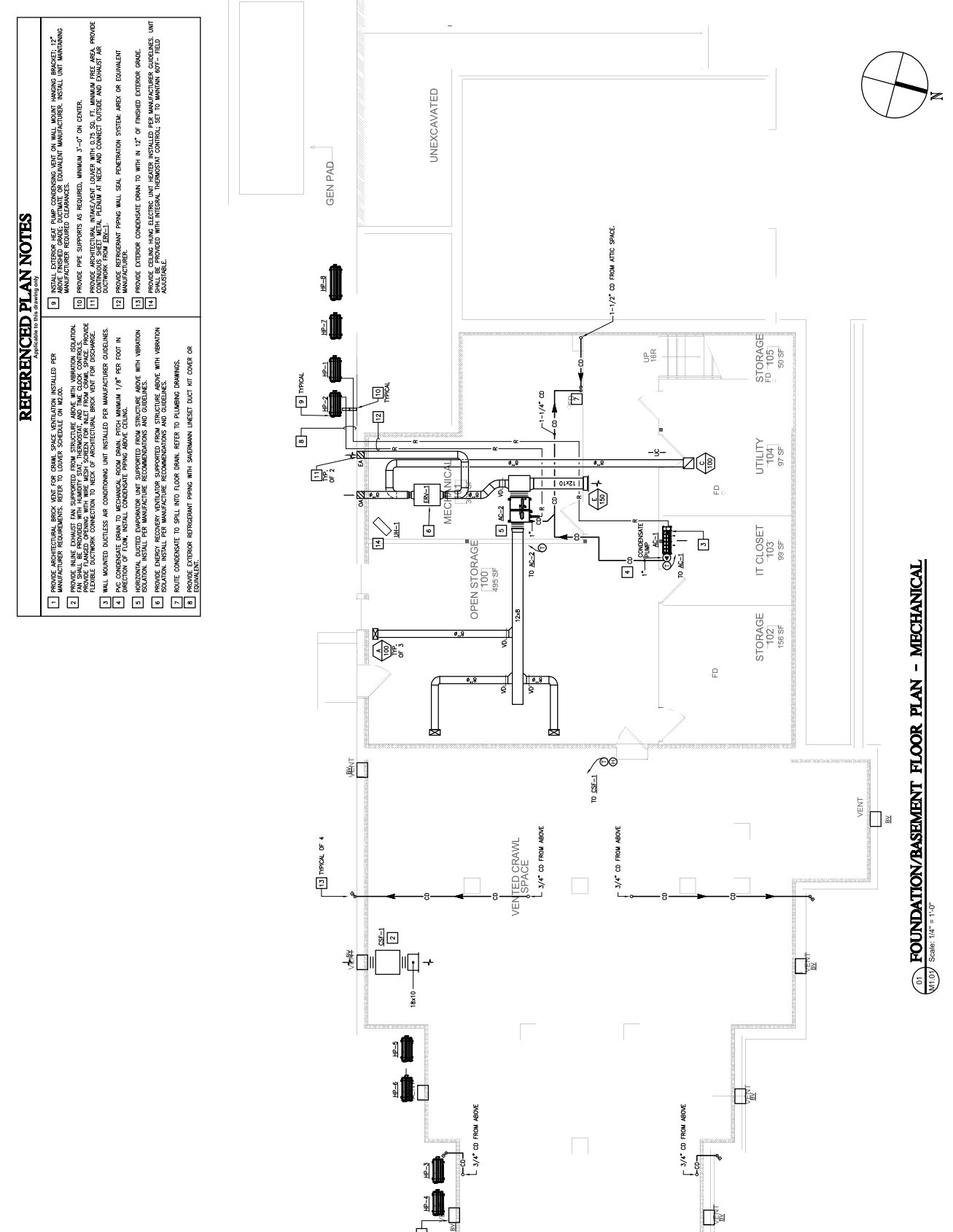
17384 ARROWOOD PLACE
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ROUND HILL, VIRGINIA 20141

17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141



FOUNDATION/BASEMENT FLOOR PLAN - MECHANICAL

Scale: 1/4\"/>

DATE: 12/09/16

BID SET

M1.01

REFERENCED PLAN NOTES

Applicable to this drawing only

- 1 GENESIS AIR ZONE/AL WALL MOUNT UNIT OR DISINFECT SYSTEM MOUNTED PER MANUFACTURER RECOMMENDATION.
- 2 ROUTE 3/4" CONDENSATE DRAIN IN PVC PIPING DOWN TO CHWAL SPACE BELOW. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3 WALL MOUNTED DUCTLESS AIR CONDITIONING UNIT INSTALLED PER MANUFACTURER GUIDELINES.
- 4 PROVIDE EXTERIOR VENT PIPING FOR ALL DISINFECT SYSTEMS AND DUCTLESS AIR CONDITIONING UNITS. RECOMMENDATIONS: INSTALL WITH EXTERIOR FAN AND VENT UP THROUGH ROOF. REFER TO MFG. I.D.
- 5 PROVIDE 4" RIGID ALUMINUM DUCT EXHAUST DUCT UP TO ROOF VENT. PROVIDE FLEXIBLE CONNECT TO DUCT VENT TO A MINIMUM OF 3' LENGTH. REFER TO MFG. I.D. FOR CONTINUATION.
- 6 PROVIDE REFRIGERANT PIPING WALL SEAL PENETRATION SYSTEM AREX OR EQUIVALENT MANUFACTURER.
- 7 INSTALL EXTERIOR VENT PIPING ON WALL MOUNT HANGING BRACKET. 12" MINIMUM EXTERIOR VENT PIPING CLEARANCE FROM EXTERIOR WALL AND HANGING MANUFACTURER REQUIRED CLEARANCES.
- 8 PROVIDE EXTERIOR REFRIGERANT PIPING WITH SAGGERMAN INSET DUCT KIT COVER OR EQUIVALENT.
- 9 PROVIDE PIPE SUPPORTS AS REQUIRED. MINIMUM 3'-0" ON CENTER.



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17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

NAME
LOCAL NUMBER

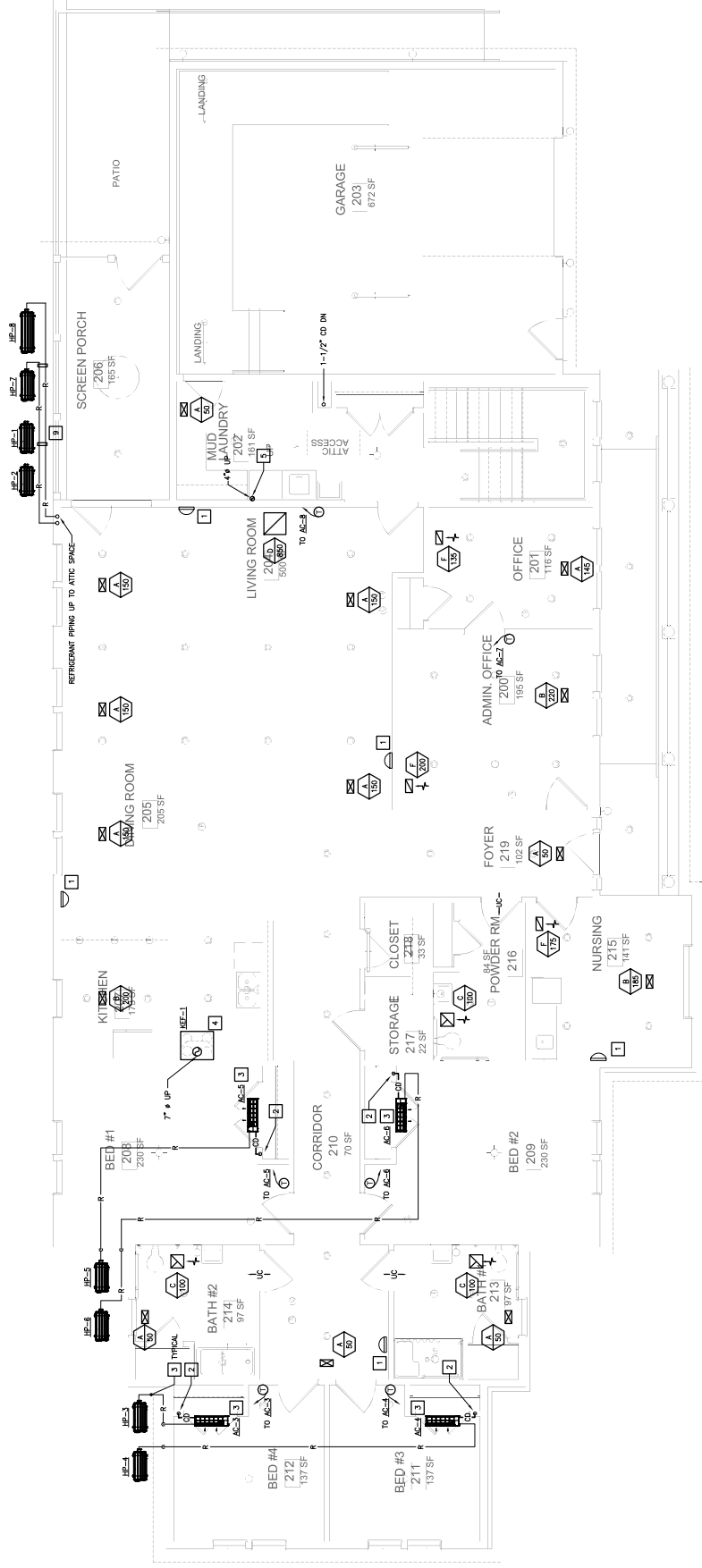
AND DESCRIPTION DATE

HGA NO. 3204-003-00

FIRST FLOOR
PLAN -
MECHANICAL

DATE: 12/09/16
BID SET

M1.02



01 FIRST FLOOR PLAN - MECHANICAL

M1.02 Scale: 1/4" = 1'-0"

Applicable to this drawing only

- REFRIGERANT
-
- PIPING: NOMIN



M1.03 Scale: 1/4" = 1'-0"

44 Canal Center Plaza, Suite 100
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ARCHITECT / INTERIORS
HGA ARCHITECTS AND ENGINEERS
44 CANAL CENTER PLAZA
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STRUCTURAL ENGINEER
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9612 LOCUST HILL DRIVE
GREAT FALLS, VA 22066
703-989-5292

MEP ENGINEER
POTOMAC ENERGY GROUP, INC.
2901 TELESTAR COURT
SUITE 400
FALLS CHURCH, VA 22042
703.441.3000

CIVIL ENGINEER
ZICHT & ASSOCIATES, PLC
16940 SIMPSON CIRCLE
PACONIAN SPRINGS, VA 20129
540-882-4266

**COUNTY OF
LOUDOUN, VA**

DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

17394 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

NAME: _____
DATE: _____
LICENSE NUMBER: _____

[illegible]

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3204-003-00

ATTIC/ROOF PLAN -
MECHANICAL

DATE:	12/09/16
BID SET	

M1.03

DIFFUSER AND GRILLE SCHEDULE

DESIGNATION	QTY	NECK SIZE (INCHES)	MANUFACTURER AND MODEL	DESCRIPTION
A	0-150	12x6	TISS 300RS	DEFLECTION STEEL CEILING SUPPLY GRILLE
B	151-300	12x6	TISS 300RS	DEFLECTION 3/4 SPACING DOUBLE
C	0-100	10x10	TISS 300RL	DEFLECTION 3/4 SPACING DOUBLE
D	0-100	10x10	TISS 300RL	DEFLECTION STEEL CEILING EXHAUST GRILLE
E	0-150	12x10	TISS 300RL	DEFLECTION STEEL CEILING RETURN GRILLE
F	0-200	12x6	TISS 300RL	DEFLECTION STEEL RETURN GRILLE

SCHEDULE NOTES

- MAXIMUM NC LEVEL OF ALL DIFFUSERS SHALL BE M35 UNLESS OTHERWISE NOTED.
- PROVIDE OFFSHORE BLADE VOLUME DAMPERS ON ALL GRILLES.
- ALL SUPPLY GRILLES, DIFFUSERS AND EXHAUST GRILLES SHALL BE THE COLOR/FINISH AS SELECTED BY THE ARCHITECT. PROVIDE GRILLE "D", "E" & "F" WITH PLEATED DISPOSABLE RETURN AIR FILTER.

ELECTRIC HEATER SCHEDULE

DESIGNATION	TYPE	HEATING CAPACITY (WATTS)	QTY	VOLTS / PHASE	FLA	MANUFACTURER AND MODEL
UH-1	HORIZONTAL MOUNT	11.2	400	240/1	13.7	MARVEL 5100 SERIES
UH-2,4	HORIZONTAL JOST MOUNT	8.5	275	240/1	10	MARVEL 5100 SERIES

SCHEDULE NOTES

- PROVIDE WITH TYPICALLY ENCLOSED MOTOR.
- EACH UH SHALL BE CONTROLLED BY REMOTE T-SWITCH.
- PROVIDE THERMAL OVERLOAD PROTECTION & INTERNAL DISCONNECT.
- PROVIDE MOUNTING FRAME AS REQUIRED.

BASEMENT OUTSIDE AIR COMPLIANCE

Project Name: Revell Jr. JAIL Total Supply Air									
Room									
Air Use Description									
VOC-2									
A	B	C	D	E	F	G	H	I	J
Room Number	Description	(ft ²) (sq)	Outdoor Air Rate (cfm)	Outdoor Air Rate (cfm)	Lineal Feet per 1000 ft ² (ft/1000)	Outdoor Air Rate (cfm)	Outdoor Air Rate (cfm)	Outdoor Air Rate (cfm)	Outdoor Air Rate (cfm)
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COUNTY OF
LOUDOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE
ROUND HILL GROUP
RESIDENCE
17384 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

DESIGNED BY: HGA ARCHITECTS
CHECKED BY: HGA ARCHITECTS
DATE: 12/09/16
LARGE OF THE STATE OF VIRGINIA

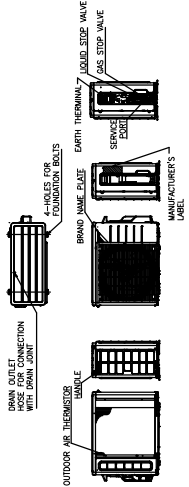
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100.00	12/09/16

HGA NO. 3204-003-00

DETAILS -
MECHANICAL

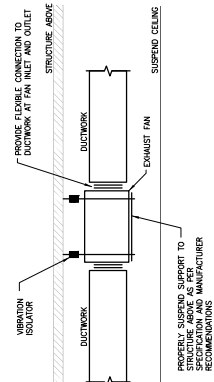
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BID SET

M2.01



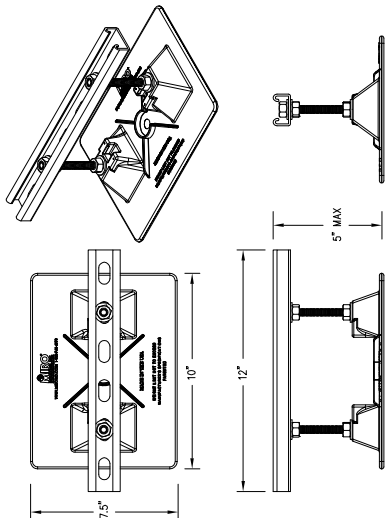
03 OUTDOOR HEAT PUMP

M2.01/ NOT TO SCALE



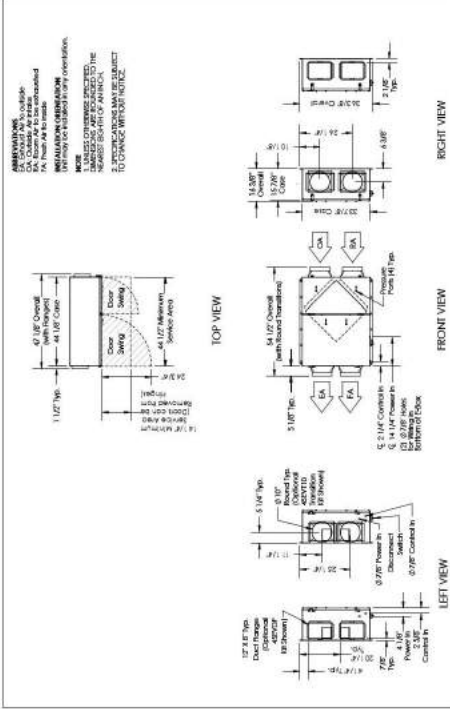
04 INLINE BLOWER EXHAUST DETAIL

M2.01/ NOT TO SCALE



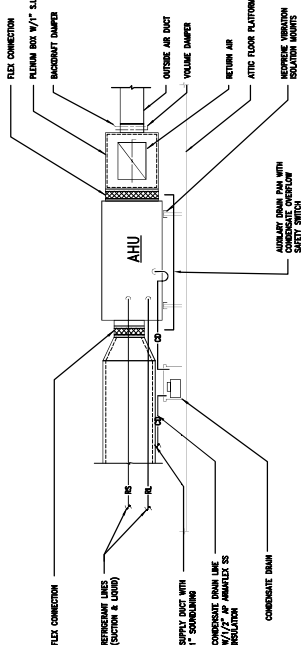
01 PIPE SUPPORT DETAIL

M2.01/ NOT TO SCALE



05 ENERGY RECOVERY VENTILATOR

M2.01/ NOT TO SCALE



06 FLOOR MOUNTED HORIZONTAL AIR HANDLING UNIT DETAIL

M2.01/ NOT TO SCALE

[illegible]

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	SANITARY FORCE MAIN
	STORM FORCE MAIN
	SOIL or WASTE (SANITARY) PIPE
	STORM WATER PIPING
	VENT PIPE
	COLD WATER PIPING
	HOT/TEMPERED WATER REDUCING PIPING
	NATURAL GAS PIPING
	FIRE SERVICE PIPING
	TRAP PRIMER LINE
	PIPE TURNING UP
	PIPE TURNING DOWN
	GATE VALVE
	UNION
	GAS COCK
	PRESSURE REDUCING VALVE
	CHECK VALVE
	OPEN STEM & YOKE VALVE WITH TAMPER SWITCH
	WALL HYDRANT or INSET BSB
	CLEANOUT
	WALL CLEANOUT
	POINT OF CONNECTION - NEW TO EXISTING
	PLUMBING FIXTURE DESIGNATION
	ROOF DRAIN
	FLOOR DRAIN
	OPEN SITE DRAIN
	SANITARY STACK DESIGNATION
	WATER RISER DESIGNATION
	NATURAL GAS RISER DESIGNATION
	STORM RISER DESIGNATION
	FIRE RISER DESIGNATION
	WATER RISER DIAGRAM COORDINATION POINT
	SANITARY RISER DIAGRAM COORDINATION POINT
	NATURAL GAS COORDINATION POINT
	STORM COORDINATION POINT
	FIRE COORDINATION POINT

SPRINKLER SYMBOLS	
SYMBOL	DESCRIPTION
—f—	FIRE PROTECTION MAIN
—SP—	SPRINKLER ZONE PIPE
TEST/DRAIN LINE	
	FLOW SWITCH
	CHECK VALVE
	O.S.&Y. VALVE W/ JAMPER SWITCH
	DRY PIPE VALVE (RISER)
	DRY PIPE VALVE (FLOOR PLAN)
	PIPE DEPARTMENT CONNECTION
	PIPE TURNING UP
	PIPE TURNING DOWN
	VALVE IN RISER
	UPRIGHT SPRINKLER - HIGH TEMPERATURE
	SIDEWALL SPRINKLER
212 F	
157 F	

FIRE PROTECTION NOTES

- 1 THE SYSTEM SHALL CONSIST OF A COMPLETELY AUTOMATIC, WET PIPE HYDRANALLY CALCULATED SPRINKLER SYSTEM. THE DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL THE LATEST ADOPTED EDITION OF NFPA 13A, AND THE REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION, AND ALL APPLICABLE STANDARDS.
- 2 THE CONTRACTOR SHALL USE PIPING AND FITTINGS FOR FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ADOPTED EDITION OF NFPA 13A, NFPA 13, NFPA 13A, NFPA 13B, NFPA 13C, NFPA 13D, NFPA 13E, NFPA 13F, NFPA 13G, NFPA 13H, NFPA 13I, NFPA 13J, NFPA 13K, NFPA 13L, NFPA 13M, NFPA 13N, NFPA 13O, NFPA 13P, NFPA 13Q, NFPA 13R, NFPA 13S, NFPA 13T, NFPA 13U, NFPA 13V, NFPA 13W, NFPA 13X, NFPA 13Y, NFPA 13Z, NFPA 13AA, NFPA 13AB, NFPA 13AC, NFPA 13AD, NFPA 13AE, NFPA 13AF, NFPA 13AG, NFPA 13AH, NFPA 13AI, NFPA 13AJ, NFPA 13AK, NFPA 13AL, NFPA 13AM, NFPA 13AN, NFPA 13AO, NFPA 13AP, NFPA 13AQ, NFPA 13AR, NFPA 13AS, NFPA 13AT, NFPA 13AU, NFPA 13AV, NFPA 13AW, NFPA 13AX, NFPA 13AY, NFPA 13AZ, NFPA 13BA, NFPA 13BB, NFPA 13BC, NFPA 13BD, NFPA 13BE, NFPA 13BF, NFPA 13BG, NFPA 13BH, NFPA 13BI, NFPA 13BJ, NFPA 13BK, NFPA 13BL, NFPA 13BM, NFPA 13BN, NFPA 13BO, NFPA 13BP, NFPA 13BQ, NFPA 13BR, NFPA 13BS, NFPA 13BT, NFPA 13BU, NFPA 13BV, NFPA 13BW, NFPA 13BX, NFPA 13BY, NFPA 13BZ, NFPA 13CA, NFPA 13CB, NFPA 13CC, NFPA 13CD, NFPA 13CE, NFPA 13CF, NFPA 13CG, NFPA 13CH, NFPA 13CI, NFPA 13CJ, NFPA 13CK, NFPA 13CL, NFPA 13CM, NFPA 13CN, NFPA 13CO, NFPA 13CP, NFPA 13CQ, NFPA 13CR, NFPA 13CS, NFPA 13CT, NFPA 13CU, NFPA 13CV, NFPA 13CW, NFPA 13CX, NFPA 13CY, NFPA 13CZ, NFPA 13DA, NFPA 13DB, NFPA 13DC, NFPA 13DD, NFPA 13DE, NFPA 13DF, NFPA 13DG, NFPA 13DH, NFPA 13DI, NFPA 13DJ, NFPA 13DK, NFPA 13DL, NFPA 13DM, NFPA 13DN, NFPA 13DO, NFPA 13DP, NFPA 13DQ, NFPA 13DR, NFPA 13DS, NFPA 13DT, NFPA 13DU, NFPA 13DV, NFPA 13DW, NFPA 13DX, NFPA 13DY, NFPA 13DZ, NFPA 13EA, NFPA 13EB, NFPA 13EC, NFPA 13ED, NFPA 13EE, NFPA 13EF, NFPA 13EG, NFPA 13EH, NFPA 13EI, NFPA 13EJ, NFPA 13EK, NFPA 13EL, NFPA 13EM, NFPA 13EN, NFPA 13EO, NFPA 13EP, NFPA 13EQ, NFPA 13ER, NFPA 13ES, NFPA 13ET, NFPA 13EU, NFPA 13EV, NFPA 13EW, NFPA 13EX, NFPA 13EY, NFPA 13EZ, NFPA 13FA, NFPA 13FB, NFPA 13FC, NFPA 13FD, NFPA 13FE, NFPA 13FF, NFPA 13FG, NFPA 13FH, NFPA 13FI, NFPA 13FJ, NFPA 13FK, NFPA 13FL, NFPA 13FM, NFPA 13FN, 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NUMBER	DRAWING NAME
P0.00	COVER SHEET - PLUMBING
P1.01	FOUNDATION/RESIDENT FLOOR PLAN - PLUMBING
P1.02	1ST FLOOR PLAN - PLUMBING
P1.03	2ND FLOOR PLAN - PLUMBING
P1.04	ATTIC/ROOF PLAN - PLUMBING
P2.00	SCHEDULE - PLUMBING
P2.01	DETAILS - PLUMBING
P2.02	DETAILS - PLUMBING
P2.03	DETAILS - PLUMBING
P2.04	DETAILS - PLUMBING

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HGA NO:	3204-003-00
COVER SHEET - PLUMBING	

DATE:	12/09/16
BID SET	

P0.00



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COUNTY OF

LOUDBOUN, VA
DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE
ROUND HILL GROUP
RESIDENCE

17394 ARROWOOD PLACE
ROUND HILL VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

NAME: _____
DATE: _____
LICENSE NUMBER: _____

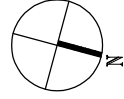
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REFERENCED PLAN NOTES

- | | |
|----|---|
| 1 | SANITARY BUILDING DRAIN. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 2 | NORMING WATER SERVICE. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 3 | INDICATING THE PROTECTION SERVICE. 1/4" AHEAD OF METER. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 4 | STUMP PIPE. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 5 | DOUBLE CHECK DETECTOR ASSEMBLY ASSE 104B. |
| 6 | DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY ASS 101S. |
| 7 | STEEL SLEEVE AT WALL PENETRATION. SEE DETAIL ON SHEET P-022. |
| 8 | SANITARY ABOVE IN CEILING SPACE. |
| 9 | 3/4"x7W PIPE UP TO HOSE BIBB. |
| 10 | FOUNDATION DRAIN. |
| 11 | 1" TOWNHOMES AND 1/2"x7W PIPES UP. |
| 12 | CW & HW PIPES UP. |
| 13 | VENT PIPE UP. |
| 14 | SEE SHEET H-1-2 FOR CONTINUATION. |
| 15 | PROVIDE FLOOR DRAIN UNDERNEATH THE ELECTRIC WATER HEATER. |

REFERENCED PLAN NOTES

- | | |
|----|---|
| 1 | SANITARY BUILDING DRAIN. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 2 | NORMING WATER SERVICE. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 3 | INDICATING THE PROTECTION SERVICE. 1/8" AHEAD OF METER. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 4 | STUMP PIPE. SEE C.O.I. DRAWINGS FOR CONTINUATION. |
| 5 | DOUBLE CHECK DETECTOR ASSEMBLY ASSE 104B. |
| 6 | DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY ASS 101S. |
| 7 | STEEL SLEEVE AT WALL PENETRATION. SEE DETAIL ON SHEET P-022. |
| 8 | SANITARY ABOVE IN CEILING SPACE. |
| 9 | 3/4"x7W PIPE UP TO HOSE BIBB. |
| 10 | FOUNDATION DRAIN. |
| 11 | 1" TOWNHOMES & 1/2"x7W PIPES UP. |
| 12 | ON & IN PIPES UP. |
| 13 | VENT PIPE UP. |
| 14 | SEE SHEET H-1-2 FOR CONTINUATION. |
| 15 | PROVIDE FLOOR DRAIN UNDERNEATH THE ELECTRIC WATER HEATER. |



P1.01 Scale: 1/4" = 1'-0"

BID SET

P1.01

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LOUDOUN, VA

DEPARTMENT OF
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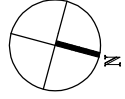
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ISSUANCE HISTORY - THIS SHEET

FOUNDATION/
BASEMENT
FLOOR PLAN -
PLUMBING

REFERENCED PLAN NOTES

- | | |
|----|--|
| 1 | 4" SAN PIPE. SEE SHEET P1.01 FOR CONTINUATION. |
| 2 | VENT THRU ROOF. |
| 3 | |
| 4 | CW & HW PIPES FROM BELOW. |
| 5 | CLOTHES WASHING MACHINE WALL BOX WITH 1/2"CW & 1/2"HW PIPES FROM BELOW. |
| 6 | PROVIDE WATER HAMMER ARRESTORS AND SHUT-OFF VALVE. |
| 7 | SET WALL BOX. PROVIDE FILTER AND BPT ON CW SUPPLY. |
| 8 | 3/4"CW PIPE FROM BELOW. |
| 9 | RUN SANDARY PIPE ABOVE SLAB IN CABINET WALL. |
| 10 | TRAP PRIMER VALVE BELOW SINK/JAQUARY WITH ACCESS PANEL. RUN PIPE TO FLOOR DRAIN. |
| 11 | 1/2" CW & 1/2"HW DN TO SINK AND DN. |
| 12 | CONTRACTOR SHALL INSTALL ACCESSIBLE CLEANOUP IN BASEMENT BETWEEN JOIST SPACING. |
| 13 | HWB DN. |
| 14 | 1/2" VENT PIPE FROM BASEMENT. |



01 FIRST FLOOR PLAN - PLUMBING
P1.02 Scale: 1/4" = 1'-0"

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540-882-4268

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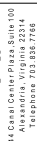
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HGA NO:	3204-003-00
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FIRST FLOOR
PLAN -
PLUMBING

DATE:	12/09/16
BID SET	

P1.02



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6121 OCULIST HILL DRIVE

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MFP ENGINEER

C ENERGY GROUP, INC.
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SUITE 400
Arlington, VA 22242

CIVIL ENGINEER
703-683-5000

16940 SIMPSON CIRCLE
DIAN SPRINGS, VA 20129
540-882-4266

COUNTY OF
IDOLIN VA

UDOUN, VA
DEPARTMENT OF

TRANSPORTATION
AND CAPITAL

RASTRUCTURE

ROUND HILL GROUP
RESIDENCE

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D HILL, VIRGINIA 20141

ONLY THAT THIS PLAN SPECIFICATION
PREPARED BY ME OR UNDER MY
SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
STATE OF VIRGINIA

RESCRIPTION	DATE
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3204-003-00

ROOF PLAN -

PLUMBING

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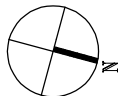
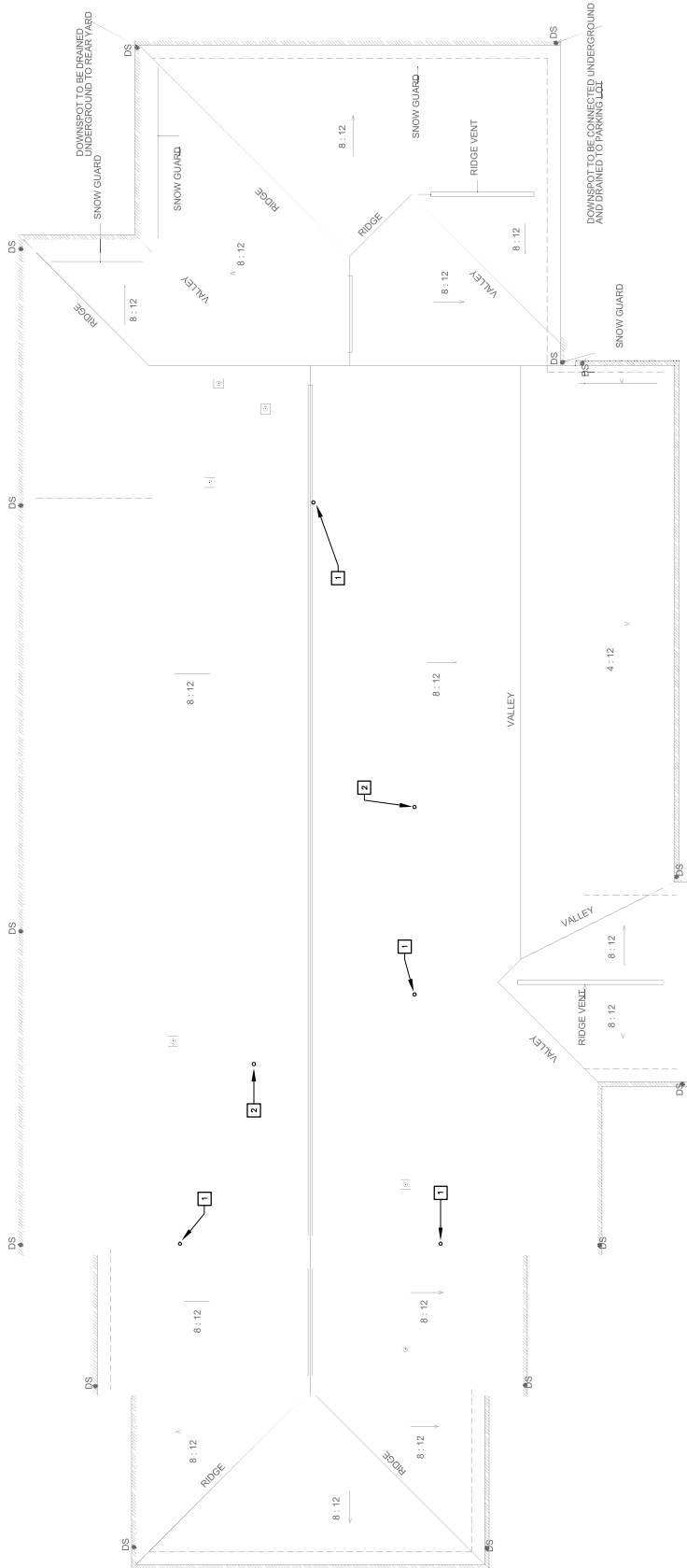
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21 03

3.

1 3" VENT THRU ROOF.

2 2" VENT THRU ROOF.



ROOF PLAN - PLUMBING

P1.03/ Scale: 1/4" = 1'-0"

PHASE 3

42

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NETFLIX

DEMAND FACTOR = $0.3 \rightarrow 0.3 \times 374 = 112.2$ GPH
STORAGE FACTOR = $1.25 \rightarrow 1.25 \times 112.2 = 140.25$ GAL.

[illegible]TOTAL REQUIREMENTS = 112.2 GPH RECURRENT
140.25 GAL. STORAGE

ПРОЦЕДУРА АНАЛИЗА ПОДЪЕМНЫХ МАШИИ И ОНТИЧЕСКАЯ

RECIRC PUMP GRUNDFOS UP-15-10B5.
1/25 HP 115 V BRONZE PUMP

1. MINIMUM PIPE SIZE OF UNDERGROUND PIPING SHALL BE 2".

1. MINIMUM PIPE SIZE OF UNDERGROUND PIPING SHALL BE 2".
2. CONTRACTOR SHALL INSTALL INSULATION KIT ON ALL HANDICAPPED LAVATOIRES, Manufacturer: THERMO (OR EQUAL).
3. TRAP PRIMER VALVES SHALL BE PROVIDED FOR ALL FLOOR DRAINAGE.
4. TEMPERED WATER SHALL BE SUPPLIED FOR BATHING AND WASHING PURPOSES THROUGH A WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 109 DEG.

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DEPARTMENT OF
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AND CAPITAL INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

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I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE

LAWYER OF THE STATE OF VERMONT

NAME _____
DATE _____
LICENSE NUMBER _____

Δ NO	DESCRIPTION	DATE

ISSUANCE HISTORY - THIS SHEET		

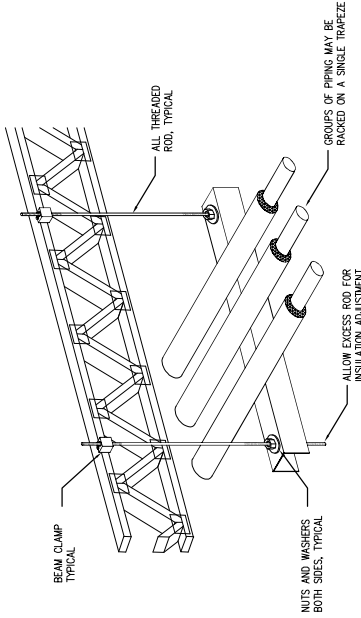
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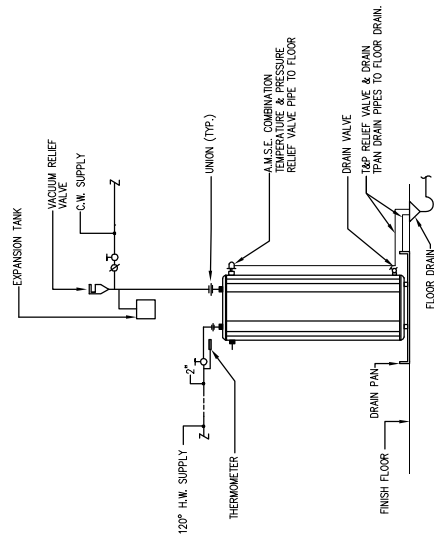
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BID SET	

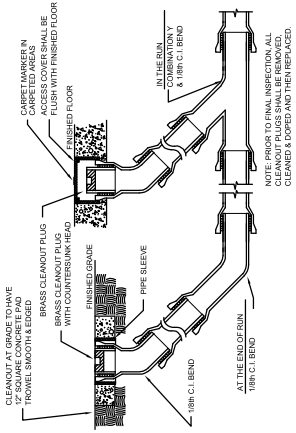
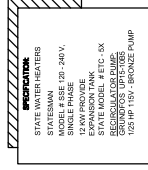
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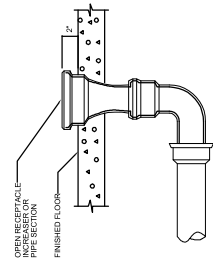
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P2.01 Scale: NONE



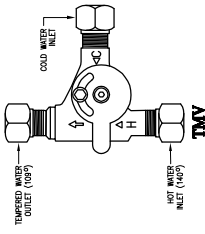
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P2.01 Scale: NONE



CLEANOUT DETAILS

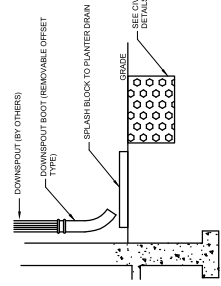


05 OPEN SITE DRAIN (OSD) DETAIL
P2.01 NOT TO SCALE

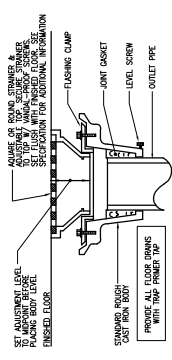


SPECIFICATION
LAWLER MODEL 1070 THERMOSTATIC MIXING VALVE

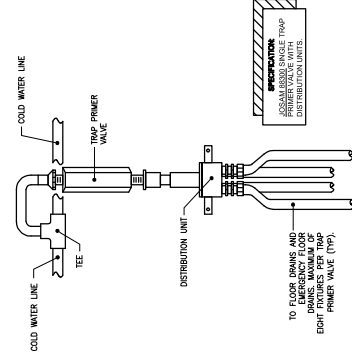
06 THERMOSTATIC MIXING VALVE
P2.01 Scale: NONE



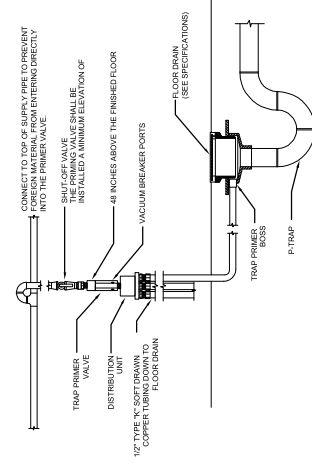
07 DOWNSPOUTS TO STORM DRAIN DETAIL
P2.01 Scale: NONE



FLOOR DRAIN DETAIL



02 TRAP PRIMER VALVE DETAIL
P2.01 Scale: NONE



03

TRAP PRIMER DETAIL

Scale: NONE



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703.836.7102

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DATE
12/05/16
12/05/16

NO.	DESCRIPTION	DATE
1	12/05/16	12/05/16
2	12/05/16	12/05/16
3	12/05/16	12/05/16
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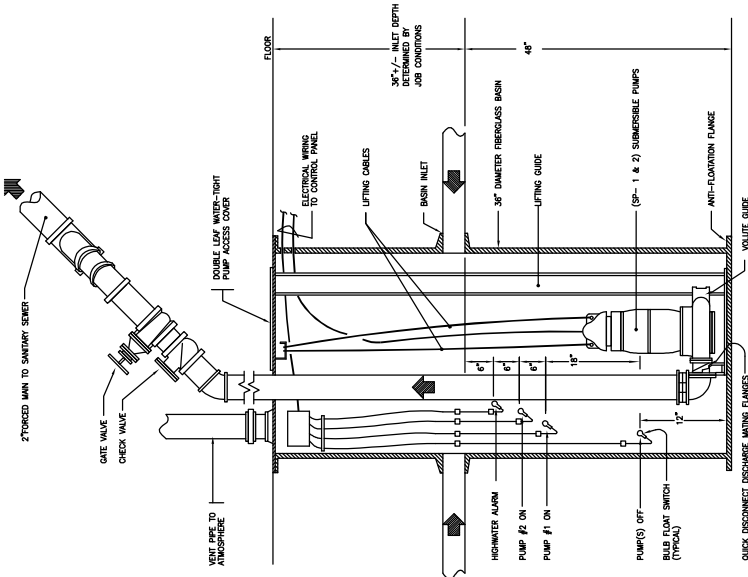
HGA NO. 3204-003-00

DETAILS AND
SCHEDULES -
PLUMBING

DATE: 12/05/16

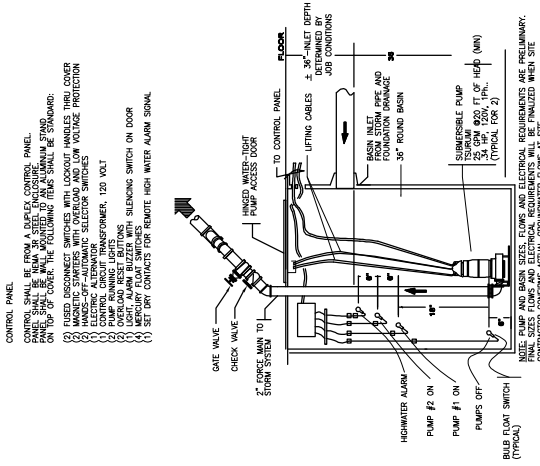
BID SET

P2.02

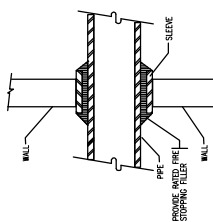


01
P2.02
Scale: NONE
DUPLX SEWAGE EJECTOR (SE-1)

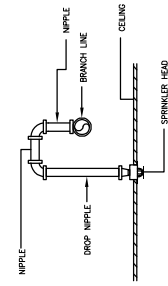
SUBMERSIBLE PUMP	
SP-1	
MANUFACTURER:	25 GPM @ 21 FT. HD
CAPACITY:	ELECTRICAL DATA: 240 VOLT, 1 PHASE, 1/2 HP



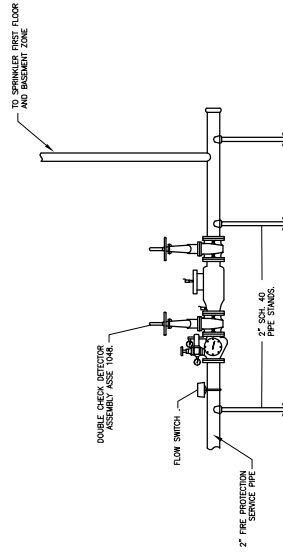
02
P2.02
Scale: NONE
DUPLX SUMP PUMP DETAIL (SP-1)



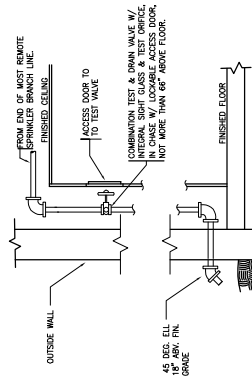
03
P2.02
Scale: NONE
TYPICAL WALL PENETRATION DETAIL



03 **RETURN BEND DETAIL**
P2.03 NOT TO SCALE



01 FIRE PROTECTION DETAIL
P2.03 Scale: NONE



02
SPRINKLER INSPECTION TEST VALVE DETAIL

P2.03
NOT TO SCALE



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RESIDENCE

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[illegible]HGA NO: 3204-003-00
FACILITY: 1821331 - 11 821331331DETAILS AND
SCHEDULES -
PLUMBING

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P2.03



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3. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER.

DATE: 12/05/16

BID SET

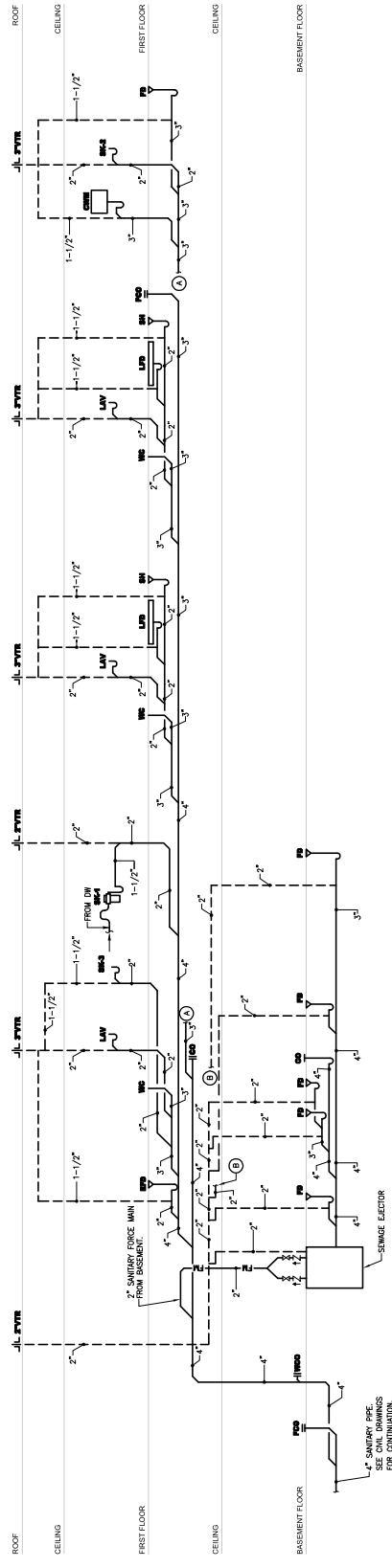
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PLUMBING

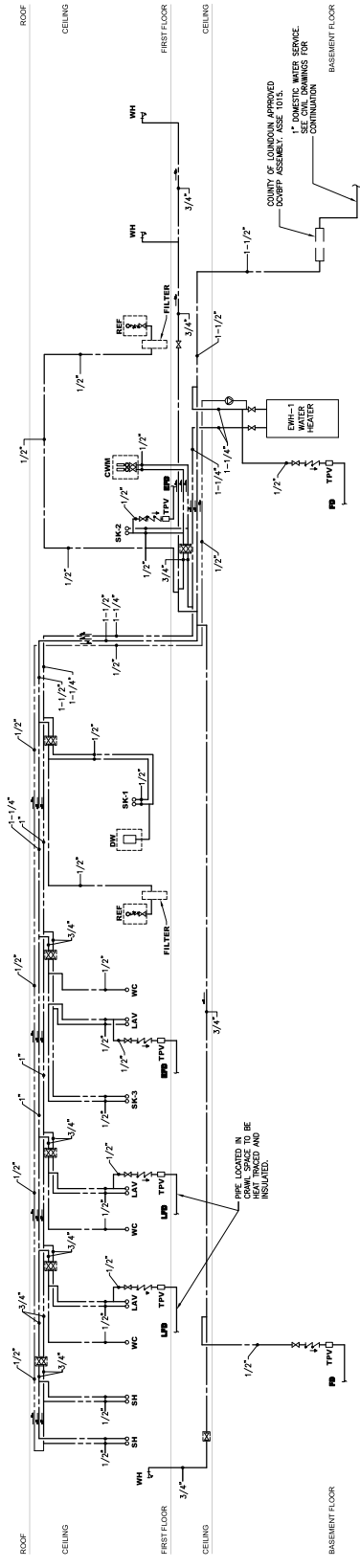
DATE: 12/05/16

BID SET

P3.00



01
P3.00
SANITARY RISER DIAGRAM - PLUMBING
NOT TO SCALE



02
P3.00
WATER RISER DIAGRAM - PLUMBING
NOT TO SCALE

ABBREVIATION	D E S C R I P T I O N
ABV	ABOVE
A	AMPERE
AFT	ABOVE FINISHED FLOOR
AFG	ADJUSTABLE FREQUENCY GENERATOR
AG	ACROSS
AC	ASYMMETRICAL INTERRUPT CURRENT
ACH	ARCHITECTURAL
ATS	AUTOMATIC TEMPERATURE CONTROL
ATC	AUTOMATIC TRANSMISSION SWITCH
AWG	American WIRE GAUGE
BW	BELOW
C	CONDUIT
C/B	CIRCUIT BREAKER
C/F	COMPACT FLUORESCENT
C/T	CURRENT TRANSFORMER
CD	DEDICATED
DN	DOWN
DWG	DRAWING
EG	EQUIPMENT GROUND
ELEC	ELECTRICAL
EOL	END OF LINE (RESISTOR)
EMC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FANP	FIRE ALARM NOTIFICATION PANEL
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HOTSPOT
J-B	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
L	LINEAR FOOT
M	MAXIMUM
MA	MAIN ELECTRICAL JUMP OFF
MC	METAL CLADDING
MCP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MLO	MAN LUGS ONLY
MOP	MAXIMUM OVERCURRENT PROTECTION
NF	NATIONAL ELECTRIC CODE
NEC	NON-USABLE
NFS	NON-USED SAFETY SWITCH
P	PULSES
PH	PHASE
RCPH	RESEALABLE
TBD	TO BE DETERMINED
TEL	TELEPHONE
TP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF
Y	YIELD
Y/P	PHASE

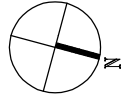
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DRAWING NUMBER	DRAWING NAME
E1.00	FOUNDATION/RESIDENT ELECTRICAL
E1.01	FOUNDATION/RESIDENT LIGHTING PLAN - ELECTRICAL
E1.02	FIRST FLOOR LIGHTING PLAN - ELECTRICAL
E1.03	FOUNDATION/RESIDENT POWER PLAN - ELECTRICAL
E1.04	FIRST FLOOR POWER PLAN - ELECTRICAL
E1.05	FOUNDATION/RESIDENT ELECTRICAL
E2.00	RISER DIAGRAM AND DETAILS - ELECTRICAL
E2.01	SCHEDULES - ELECTRICAL
E3.00	FIRE ALARM RISER AND DETAILS - ELECTRICAL

DATE:	12/09/16
BID SET	
E0.00	

Applicable to this drawing only

- # REFERENCED PLAN NOTES
- Adjustments to the following only
1. CONNECT TO LOCAL LIGHTING CIRCUIT H-1, AHEAD OF SWITCHING.
 2. CONNECT TO NEXT LIGHT FIXTURE ABOVE IN THE STAIR.
 3. CONNECT TO LIGHTING CIRCUIT H-8.



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

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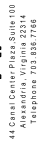
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ISSUANCE HISTORY - THIS SHEET	
HGA NO:	3204-003-00

FOUNDATION/
BASEMENT FLOOR
LIGHTING PLAN -
ELECTRICAL

DATE:	12/09/16
RID SET	

E1.01



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NAME _____
DATE _____
LICENSE NUMBER _____[illegible]

ISSUANCE HISTORY - THIS SHEET	
HGA NO:	3204-003-00

FIRST FLOOR
LIGHTING PLAN -
ELECTRICAL

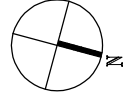
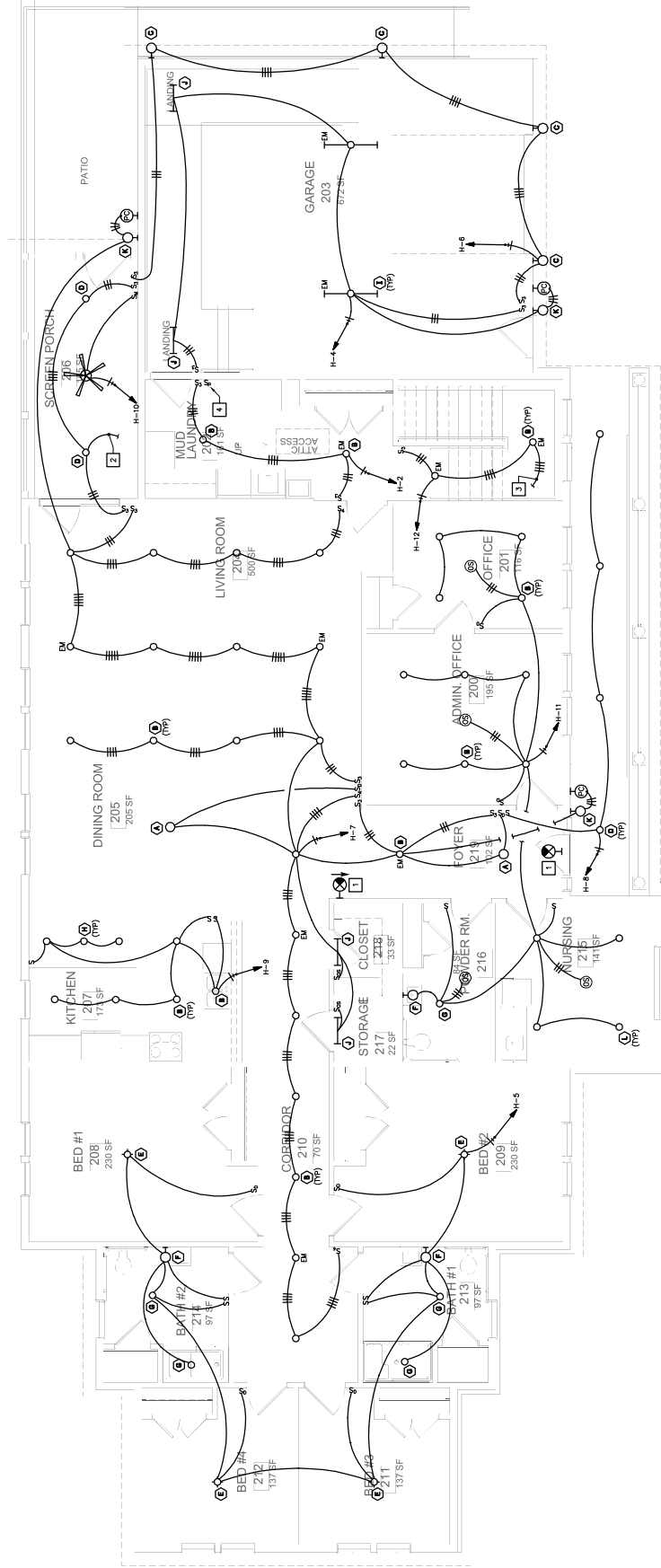
DATE: 12/09/16

BID SET

E1.02

Applicable to this drawing only

- 1 CONNECT TO LOCAL LIGHTING CIRCUIT H-7, AHEAD OF SWITCHING.
- 2 CONNECT TO LIGHTING CIRCUIT H-8.
- 3 CONNECT TO LIGHT FIXTURE IN THE STAIR AT BASEMENT. REFER TO NOTE 2 ON DRAWING E1.01 FOR CONTINUATION.
- 4 TO CONTROL LIGHTING FIXTURES IN THE ATTIC.



01 FIRST FLOOR LIGHTING PLAN - ELECTRICAL

E1.02 Scale: 1/4" = 1'-0"



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NO.	DESCRIPTION	DATE
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18	17384 ARROWOOD PLACE	12/05/16
19	17384 ARROWOOD PLACE	12/05/16

HGA NO. 3204-003-00

FIRST FLOOR
POWER PLAN -
ELECTRICAL

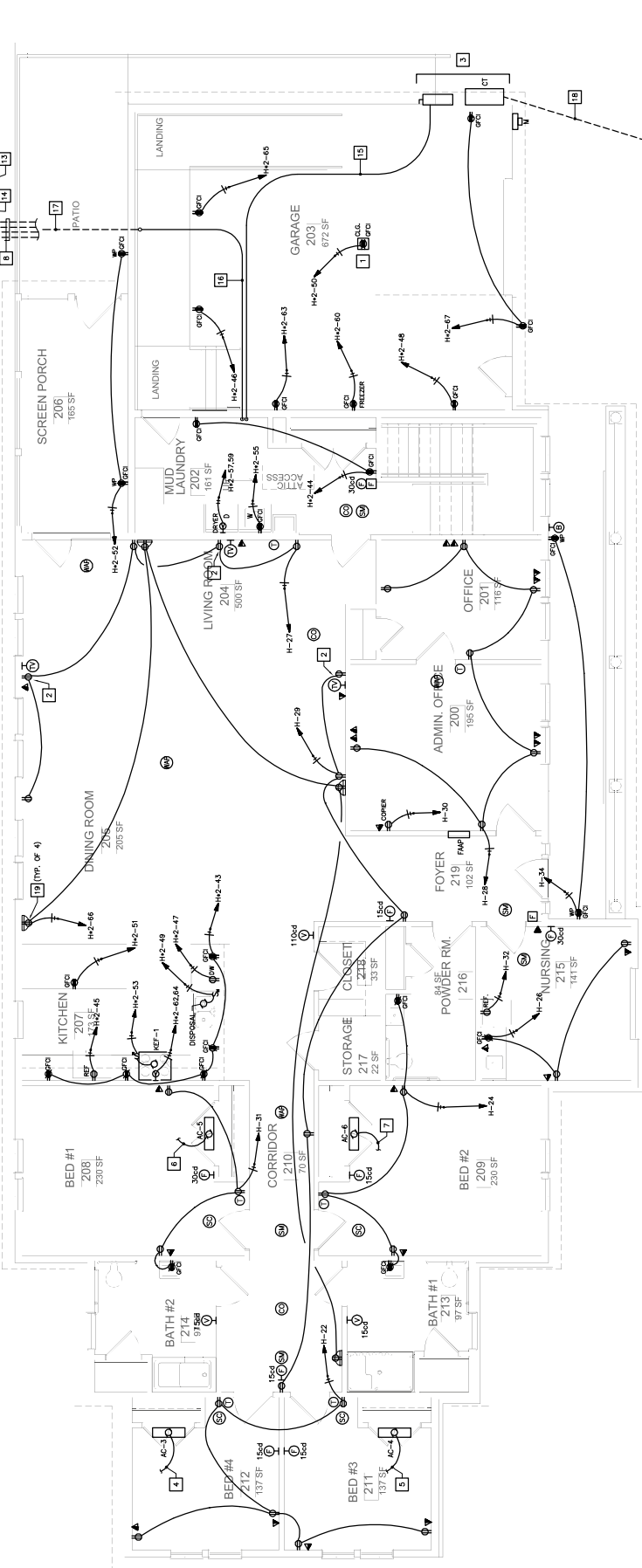
DATE: 12/05/16
BID SET

E1.04

REFERENCED PLAN NOTES

Applicable to this drawing only

1. CEILING MOUNTED RECEPTACLE FOR GARAGE DOOR OPENER.
2. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
3. REFER TO POWER RISER DIAGRAM ON DRAWING E1.00 FOR ELECTRICAL EQUIPMENT SPECIFICATION.
4. CONNECT TO OUTDOOR UNIT HP-3. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. CONNECT TO OUTDOOR UNIT HP-4. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. CONNECT TO OUTDOOR UNIT HP-5. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. CONNECT TO OUTDOOR UNIT HP-6. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. ROUTE RACEWAYS MIN. 30" BELOW GRADE FOR POWER CONTROL WIRING. GENERATOR REMOTE BREAKER AT GENERATOR TO UTILITY ROOM AT BASEMENT. SEE POWER RISER DIAGRAM ON DRAWING E1.00 FOR WIRING/CONDUIT SEE. SEE NOTES 16 AND 17 BELOW FOR CONTINUATION.
9. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT SUPPLIER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. 120V, 1-PHASE, 120/240V, DIESEL-FUELED GENERATOR. SEE POWER RISER DIAGRAM ON DRAWING E1.00 FOR CONCRETE PAD, FT. BEYOND GENERATOR FOOTPRINT ON ALL SIDES.
11. J-BOX FOR LINE OIL HEATER, 150W, 120V, SINGLE PHASE.
12. J-BOX FOR COUPLER HEATER, 20W, 240V, SINGLE PHASE.
13. J-BOX FOR ALTERNATOR STRIP HEATER, 2410W, 120V, SINGLE PHASE.
14. PROPOSED ROUTING OF ELECTRICAL SERVICE FEEDER CONDUITS AT CEILING SPACE TO BASEMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROPOSED ROUTING OF EMERGENCY FEEDER AND CONTROL WIRING CONDUITS AT CEILING SPACE TO BASEMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
16. ROUTE EMERGENCY FEEDER AND CONTROL WIRING CONDUITS IDENTIFIED WITH NOTE 8 ABOVE, BELOW SLAB, THEN TURN UP INSIDE GARAGE. SEE NOTE 16 ABOVE FOR CONTINUATION.
17. TRANSFORMER, SEE SITE PLAN ON DRAWING E1.00 FOR CONTINUATION.
18. POWER OUTLET FOR AIR PURIFIER. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT SUPPLIER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



01 FIRST FLOOR POWER PLAN - ELECTRICAL

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

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PACONIAN SPRINGS, VA 20129
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**COUNTY OF
LOUDOUN, VA**

DEPARTMENT OF
TRANSPORTATION
AND CAPITAL
INFRASTRUCTURE

ROUND HILL GROUP
RESIDENCE

17394 ARROWOOD PLACE
ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

NAME	DATE	DESCRIPTION	DATE
DATE			
LICENSE NUMBER			

[illegible]ATTIC/ROOF
POWER/LIGHTING

PLAN - ELECTRICAL

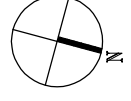
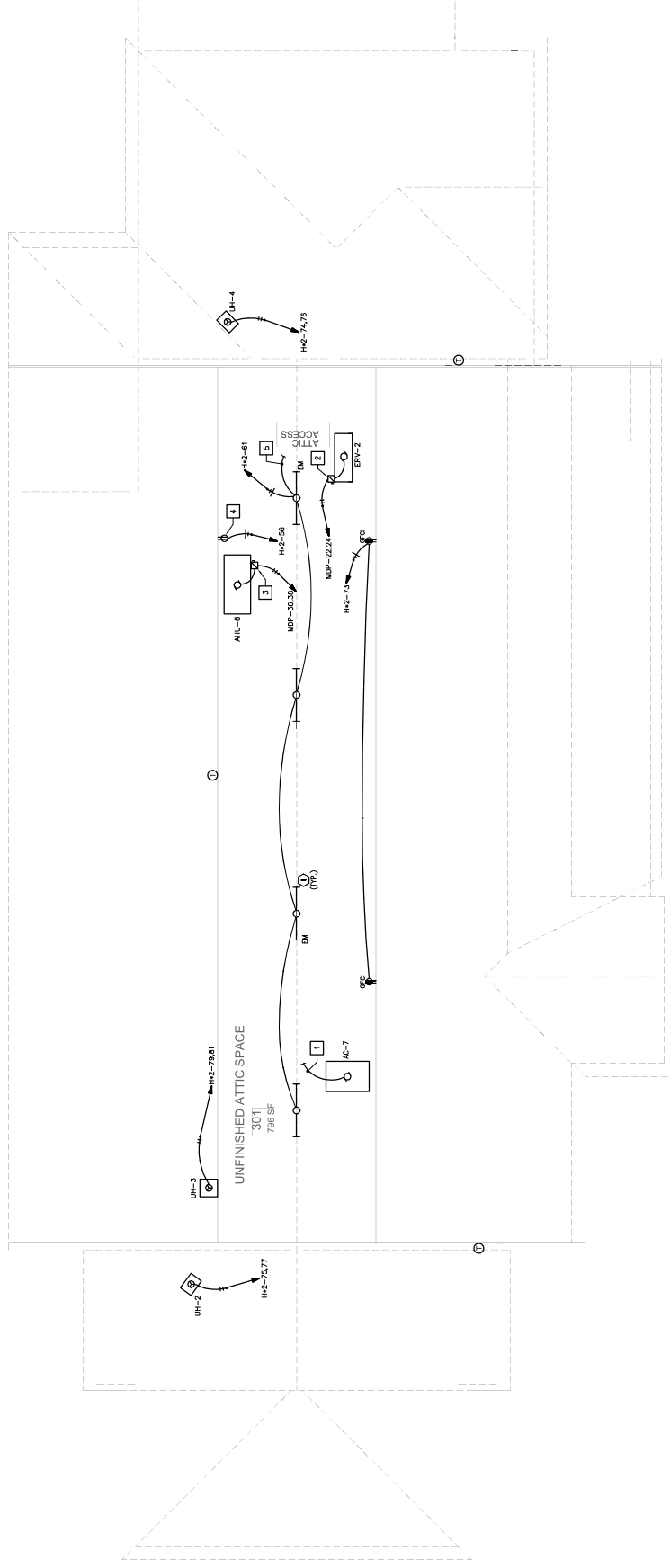
DATE:	12/09/16
BID SET	

E1.05

REFERENCED PLAN NOTES

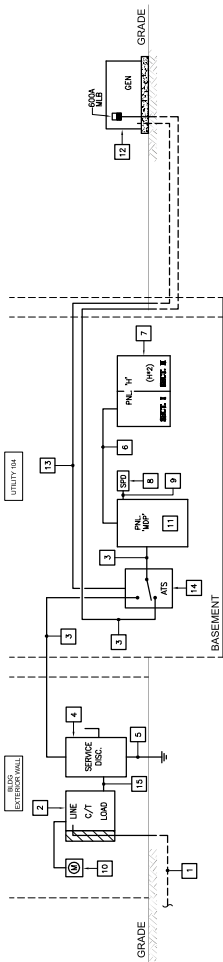
Applicable to this drawing only

- 1 CONNECT TO OUTDOOR UNIT "W-7". REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 20-20A, 240V, 5.5S, NEW TYPE 1, FUSED AT 15. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 20-20A, 240V, 5.5S, NEW TYPE 1, FUSED AT 10A. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 4 20-20A, 240V, 5.5S, NEW TYPE 1, FUSED AT 10A. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 POWER GULLET FOR CONDENSATE PUMP. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 TO BE CONTROLLED BY FLOT LIGHT SWITCH LOCATED IN WUD/LANDORY ROOM 202. SEE NOTE 4 ON DRAWING E-102 FOR CONTINUATION.



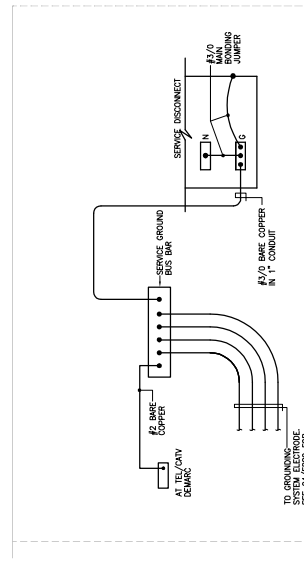
ATTIC/ROOF POWER/LIGHTING PLAN - ELECTRICAL

E1.05 Scale: 1/4" = 1'-0"



01 POWER RISER DIAGRAM - ELECTRICAL

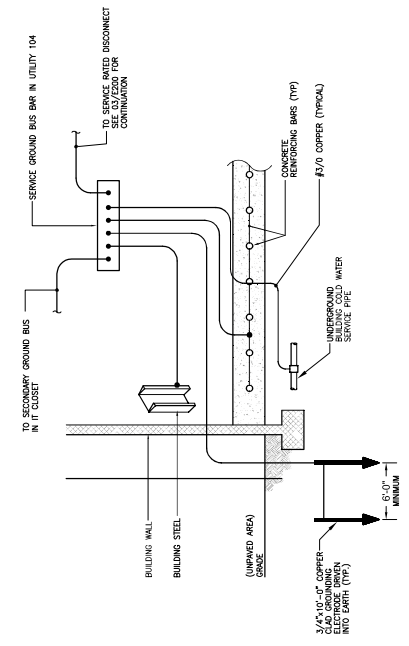
- ## POWER RISER NOTES
- Applicable to W10220 only*
- | | |
|----|--|
| 1 | INCOMING UNDERGROUND SECONDARY LINEAL SERVICE FROM PAD-MOUNTED UTILITY TRANSFORMER. SEE SITE PLAN ON DRAWING E-10 FOR PROPOSED ROUTING OF CONDUITS. |
| 2 | CURRENT TRANSFORMER CABINET, CT, RATED FOR 600A, 120/240V, 2-POLLE, 3-WIRE. |
| 3 | TWO(2) SETS OF #450 INCL. x 1 ft AND IN TWO (2) 3" CONDUITS. |
| 4 | SERVICE DISCONNECT, 2P-600A, 120/240, F.S.S. NEW TYPE "3K". FIRED AT 600A. |
| 5 | CONDUIT, 1" 3/8" COPPER SERVICE GROUND CONDUIT. SEE GRONDING RISER ON THIS SHEET. |
| 6 | PANEL "Y" 120/240 VOLT PANEL SCHEDULE ON DRAWING E-23.01. |
| 7 | PANEL "X" 120/240 VOLT, 2P, 3W. SEE PANEL SCHEDULE ON DRAWING E-23.01. |
| 8 | SARGE PROTECTIVE DEVICE, SPD. SEE PROTECT SPECIFICATIONS. |
| 9 | 1/2" ID, 10' AND IN 3/4" CONDUIT. |
| 10 | SEVICE METER, PROVIDE 1"ID x 1/2" C/L WITH PULLLINE TO METER LOCATION. |
| 11 | METER DISTRIBUTION PANEL "MP", 600A MG., 120/240V, 2P, 3W. SEE PANEL SCHEDULE ON DRAWING E-23.01. |
| 12 | DRESS-LIGHT EMERGENCY GENERATOR SET, 120KW, STANDBY, SINGLE-PHASE, 120/240V, 2P-600A, 120/240V, 2P, 3W. SEE PANEL SCHEDULE ON DRAWING E-23.01. |
| 13 | GENERAC MAJOR MODEL NO. SD350 or APPROVED EQUAL. PROVIDE THRU 25# 24" AS-B-BASE ENCLOSURE. PROVIDE 10' MIN. HEADROOM AND LEVEL x4 SUPPLY SOUND ATTENUATION TO SS -B-B ENCLASURE. |
| 14 | 5 #10 AWG IN 3/4" x GENERATOR CONTROL WIRING. |
| 15 | AUTOMATIC TRANSFER SWITCH, SET, 2P-600A, 120/240V, 30,000 AMP RATING, GENERAL PURPOSE, SERIES, OR APPROVED EQUAL. |
| 16 | TWO (2) SETS OF 4 #150 MCW IN TWO (2) 3" CONDUITS. |



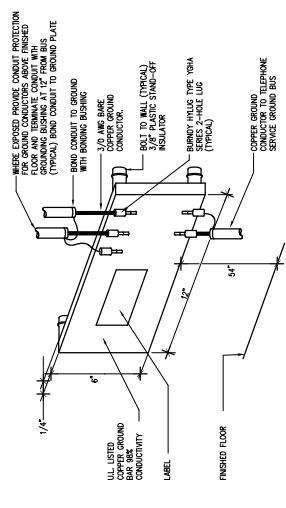
03

CONTINUATION

GROUNDING SYSTEM RISER DIAGRAM - ELECTRICAL



04 ELECTRICAL SERVICE
GROUNDING SYSTEM ELECTRODE DETAIL
E2 007 Scale: N.T.S.



05 SECONDARY BUILDING GROUND BUS DETAIL
E2.00 Scale: NTS



44 Canal Center Plaza, Suite 100
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT / INTERIORS	MEP ENGINEER	CIVIL ENGINEER
ALGA ARCHITECTS AND ENGINEERS	ENGINEERING CONSULTANTS	ZICHT & ASSOCIATES P.C.
44 CANAL CENTER DRIVE	2801 TELESTAR COURT	18640 SIMPSON CIRCLE
SUITE 100	SUITE 400	PACONIAN SPRINGS, VA 20129
ALEXANDRIA, VA 22314	FALLS CHURCH, VA 22042	540-862-4266
703-636-7766	703-683-5000	
STRUCTURAL ENGINEER		
STRUCTURAL CONSULTANTS		
9812 LOGGINS HILL DRIVE		
GREAT FALLS, VA 22066		
703-668-5292		

**COUNTY OF
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[illegible]

HGA NO:	3204-003-00
RISER DIAGRAM AND DETAILS - ELECTRICAL	

DATE:	12/09/16
BID SET	

E2.00

LIGHTING FIXTURE SCHEDULE

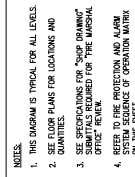
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	L A M P S			MOUNTING	RE M A R K S
			No.	WATTS	VOLTS		
(A)	DAYTON LIGHTING	3-639-22	3	9.1	120	PENDANT	CHANDLER
(B)	FMJ LIGHTING	NO-C-6-R-2-20-A	-	20	120	RECESSED	* ORDER WITH BATTERY BACKUP 1/2 FOR DESIGNATED EMERGENCY FIXTURES
(C)	ACCESS LIGHTING	2003LED MC BRZ SAT RFR	2	9	120	LED	EXTERIOR WALLPACK
(D)	JUNO LIGHTING	101423LED GL-3K-1	1	32	120	LED	EXTERIOR DOWNLIGHT
(E)	ACCESS LIGHTING	80121LED 18W	1	30	120	LED	BEDROOM
(F)	DAYTON LIGHTING	2003LED MC BRZ SAT RFR	2	9	120	LED	PROVIDE COMPATIBLE DIMMER SWITCH
(G)	DAYTON LIGHTING	2003LED MC BRZ SAT RFR	2	9	120	LED	VANITY LIGHT
(H)	ACCESS LIGHTING	101423LED GL-3K-1	-	32	120	LED	SHOWER DOWNLIGHT
(I)	DAYTON LIGHTING	2003LED MC BRZ SAT RFR	-	5	120	LED	TANGSTEN LED PENDANT WITH 360
(J)	DAYTON LIGHTING	2003LED MC BRZ SAT RFR	-	41.03	120	LED	4" LENSED LED STRAIGHT
(K)	HARRIS LIGHTING	30-WP-LED-1K-CP-HK-120-DM	-	17.13	120	LED	* ORDER WITH EMERGENCY BATTERY PACK TLM-FP FOR DESIGNATED EMERGENCY FIXTURES
(L)	JUNO LIGHTING	101423LED GL-3K-1	-	12	120	LED	2" LENSED LED STRAIGHT
(M)	PASS & SEAMOUR	10200LED 140Z 3K 4	-	20.3	120	LED	EXTERIOR WALLPACK BUILT-IN EMERGENCY OPERATION
(N)	LITONIA	272	-	-	120	LED	GENERAL DOWNLIGHT FOR SLOPED CEILING
(O)	LITONIA	272	-	-	120	LED	MEDIUM BASE PORCELAIN LAMPHOLDER FOR LED LAMP
(P)	LITONIA	272	-	-	120	LED	EXIT LIGHT

Schedule Notes:

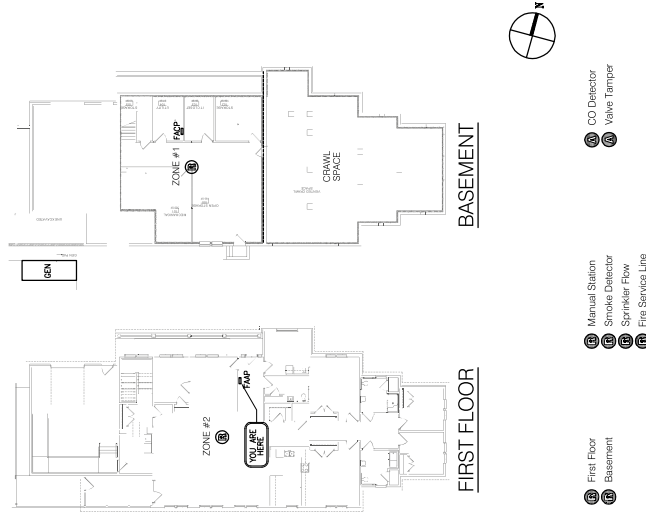
1. ALL EXIT LIGHTS SHALL BE SINGLE-FACE AND/OR DOUBLE-FACE AS INDICATED ON PLANS.
2. REFER TO FLOOR PLANS FOR LIGHTING CONTROLS.
3. CONTRACTOR MAY SUBMIT FOR EQUIVALENT PRODUCTS THAT MEET THE PROJECT SPECIFICATIONS. OWNER SHALL MAKE ALL FINAL APPROVALS FOR SUBSTITUTIONS.

SECTION I PANEL SCHEDULE

SECTION I PANEL SCHEDULE									
PANEL DESCRIPTION		VOLUME	24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
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PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING	NO. OF FEEDING
PANEL		24V/20V/12V/5V/3V	MAINS/24V	NO. OF					



(E3.00) Scale: N.T.S

[illegible]

(E3.00) Not to Scale

FIRE ZONES		
ID	AREA (SF)	REMARKS
ZONE #1	1462.00	WITHIN SPRINKLER ZONE #1
ZONE #2	3253.00	WITHIN SPRINKLER ZONE #1

DATE:	12/09/16
BID SET	

E3.00

44 Canal Center Plaza, Suite 100
Alexandria, Virginia 22314
Telephone 703.836.7766

ARCHITECT / INTERIORS
HGA ARCHITECTS AND ENGINEERS
44 CANAL CENTER PLAZA
SUITE 100
ALEXANDRIA, VA 22314
703-836-7766

STRUCTURAL ENGINEER
SKORP, LLC
9612 LOCUST HILL DRIVE
GREAT FALLS, VA 22066
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2901 TELESTAR COURT
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CIVIL ENGINEER
ZICHT & ASSOCIATES, PLLC
16940 SIMPSON CIRCLE
PACONIAN SPRINGS, VA 20129
540-882-4266

**COUNTY OF
LOUDOUN, VA**

DEPARTMENT OF
TRANSPORTATION

INFRASTRUCTURE AND CAPITAL

ROUND HILL GROUP
RESIDENCE
47204 ADDONCOSE PLACE

ROUND HILL, VIRGINIA 20141

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN.

NAME: _____
DATE: _____
LICENSE NUMBER: _____

[illegible]HGA NO: 3204-003-00
FACILITY: 1821331 - 11 8213331

FIRE ALARM
RISER AND
DETAILS -
ELECTRICAL

DATE:	12/09/16
BID SET	