



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: _____

Permit No.: BROOD008

Building Address: 11580 Chestnut Ave
City: Chesapeake State: MD Zip Code: 21034
Suite/Apt. #: _____ SDP/WP/BA #: GP 12-144
Census Tract: C05101 Subdivision: Chesapeake
Section: _____ Area: _____ Lot: 7
Tax Map: 29 Parcel: 42 Grid: 9-14
Zoning: RC-DEO Map Coordinates: 4934-C Lot Size: 15,729

Existing Use: Open Lot
Proposed Use: New Single Family Home
Estimated Construction Cost: \$ 250,000
Description of Work: Construct New Single Family Home with 2 bedrooms, full bath, 2 car garage & finished basement
Occupant/Tenant Name: _____
Was tenant space previously occupied? Yes No
Contact Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Property Owner's Name: Luke Young
Address: 10612 Calhoun Drive
City: Thurgate State: MD Zip Code: 21042
Phone: 410-726-7508 Fax: _____
Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
Applicant's Name: Kevin Tash
Address: 10-11-2-449
City: Chesapeake State: MD Zip Code: 21034
Phone: 410-726-1705 Fax: _____
Email: ktash@chesapeakehousing.com

Contractor Company: Greenfield Family Homes LLC
Contact Person: Kevin Tash
Address: P.O. Box 9144
City: Chesapeake State: MD Zip Code: 21034
License No.: CAC1
Phone: 410-726-4705 Fax: _____
Email: ktash@chesapeakehousing.com

Engineer/Architect Company: DeStaylor & Assoc.
Responsible Design Prof.: DeStaylor
Address: 3121 DeStaylor Hall Drive
City: Thurgate State: MD Zip Code: 21042
Phone: 410-726-1121 Fax: 410-726-1124
Email: info@destaylor.com

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 st floor: _____	2 nd floor: _____
Area of construction (sq. ft.):	Basement: _____	
Use group:	<input type="checkbox"/> Finished Basement	
Construction type:	<input type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Crawl Space	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Masonry	No. of Bedrooms: _____	
<input type="checkbox"/> Wood Frame	Multi-family Dwelling	
<input type="checkbox"/> State Certified Modular	No. of efficiency units: _____	
	No. of 1 BR units: _____	
	No. of 2 BR units: _____	
	No. of 3 BR units: _____	
	Other Structure: _____	
	Dimensions: _____	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings: _____	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof: _____	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
Sprinkler System:	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number:	<u>G/13000072</u>
Building Shell Permit Number:	<u>N/A</u>

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: _____
Email Address: ktash@chesapeakehousing.com
Title/Company: Agent / Greenfield Family Homes LLC

Print Name: Kevin Tash
Date: 4 June 2018

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

PLEASE WRITE NEATLY & LEGIBLY

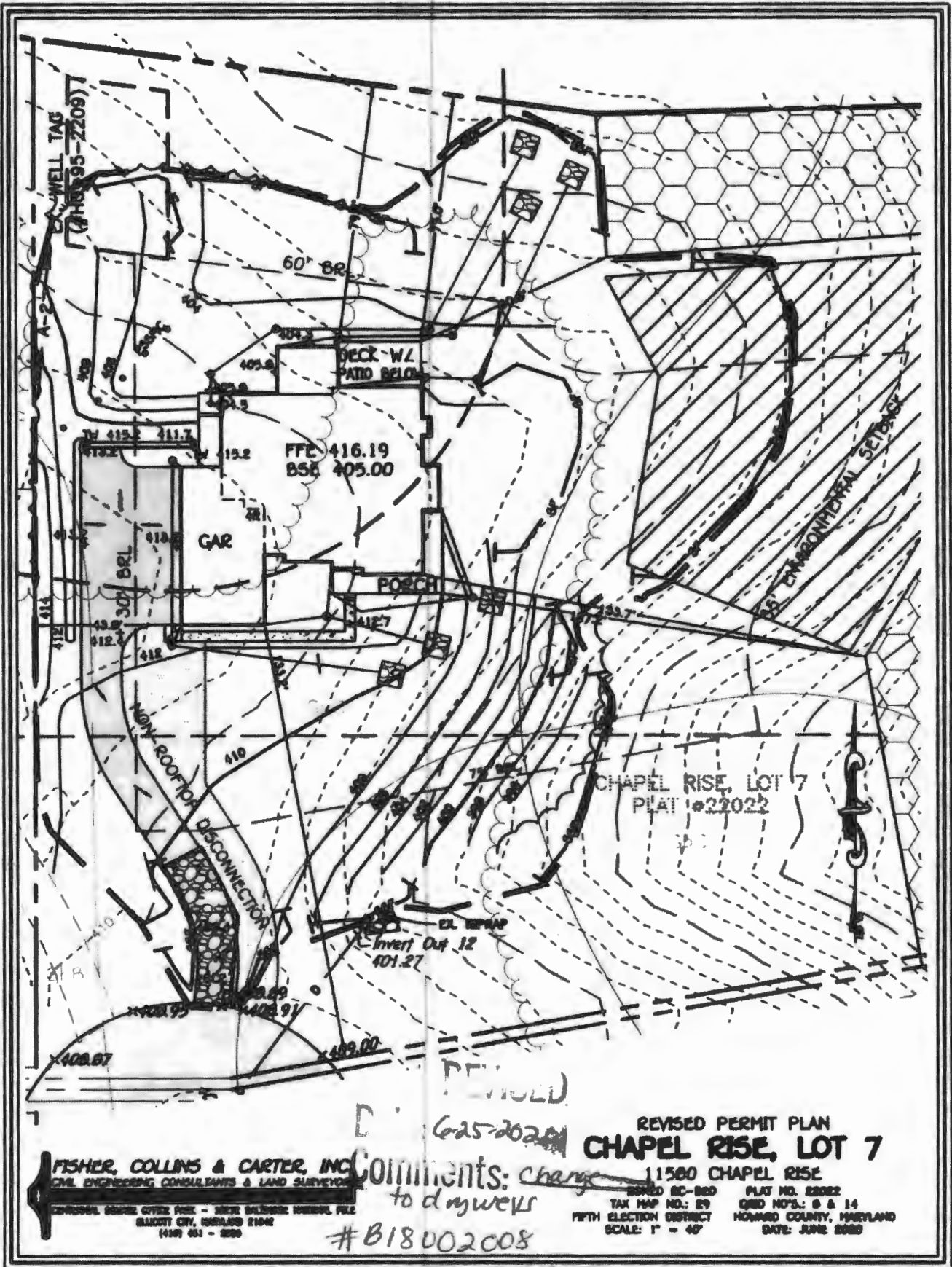
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>6/19/2018</u>	<u>Kevin Tash</u>

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$ <u>100.00</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$ <u>50.00</u>
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$ <u>150.00</u>
Balance Due	\$
Check	#

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 14000 GEORGE OFFICE PARK - SUITE 2000
 BLADDER CITY, MARYLAND 21042
 (410) 461-2200

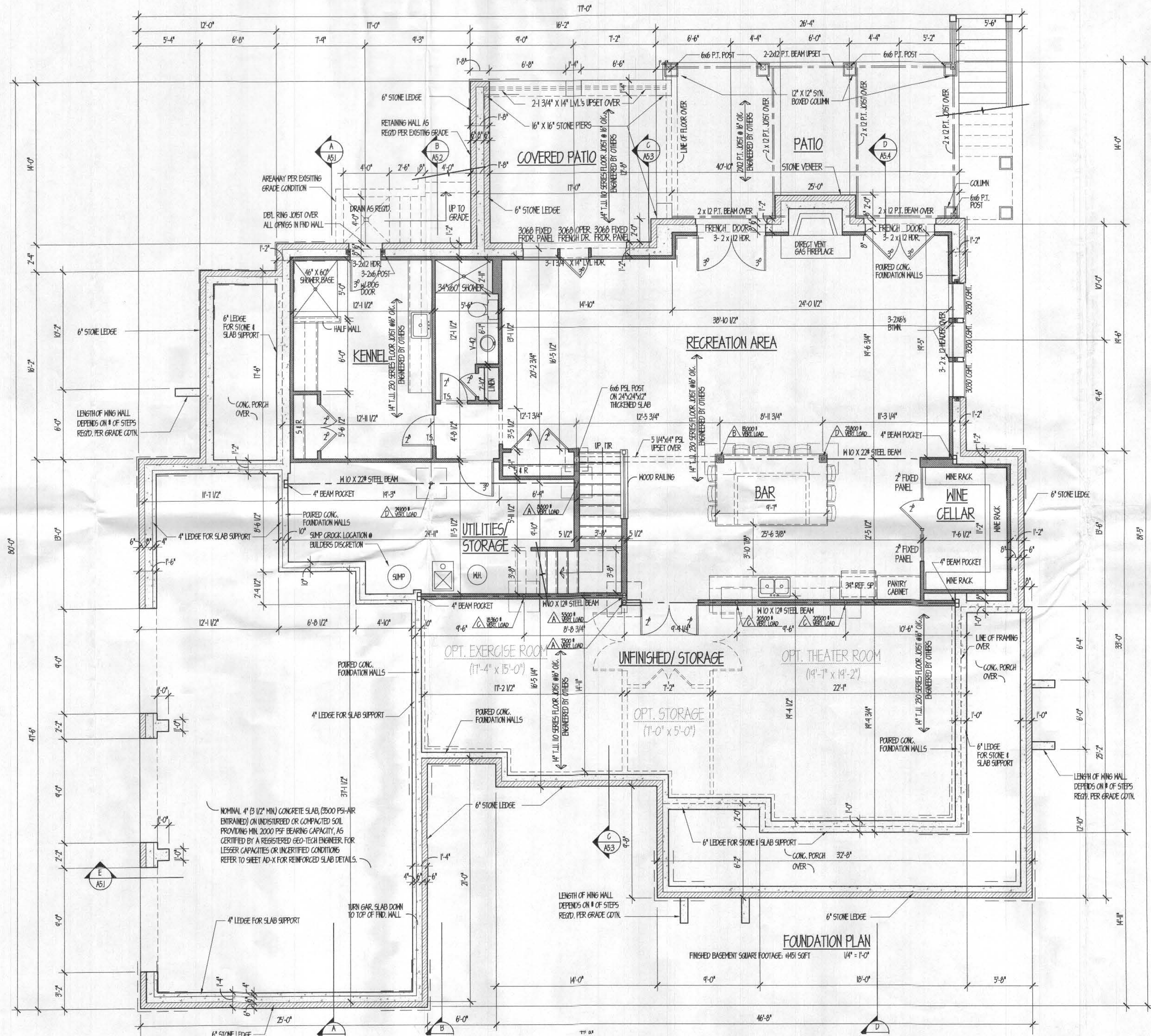
Comments: change
 to drywells
 #B18002008

REVISED PERMIT PLAN
CHAPEL RISE, LOT 7

11500 CHAPEL RISE
 PLAT NO. 22022
 GRID NO'S: 9 & 14
 HANOVER COUNTY, MARYLAND
 DATE: JUNE 2008

Approved
 R/E 7/8/2008

HEALTH COPY



NOMINAL 4" (3 1/2" MIN) CONCRETE SLAB, (2500 PSF AIR ENTRAINMENT) ON UNDISTURBED OR COMPACTED SOIL PROVIDING MIN. 2000 PSF BEARING CAPACITY, AS CERTIFIED BY A REGISTERED GEO-TECH ENGINEER. FOR LESSER CAPACITIES OR UNCERTIFIED CONDITIONS REFER TO SHEET AD-X FOR REINFORCED SLAB DETAILS.

FOUNDATION PLAN
FINISHED BASEMENT SQUARE FOOTAGE: 4451 SQFT
1/4" = 1'-0"

PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 3397-R, EXPIRATION DATE 10/7/17

dw taylor
associates, inc
ARCHITECT

5024 DORSEY HILL DR. SUITE 203 ELLICOTT CITY, MD 21042
P: (410) 364-1181 F: (410) 367-3524 www.dwtaylor.com

BID & PERMIT SET

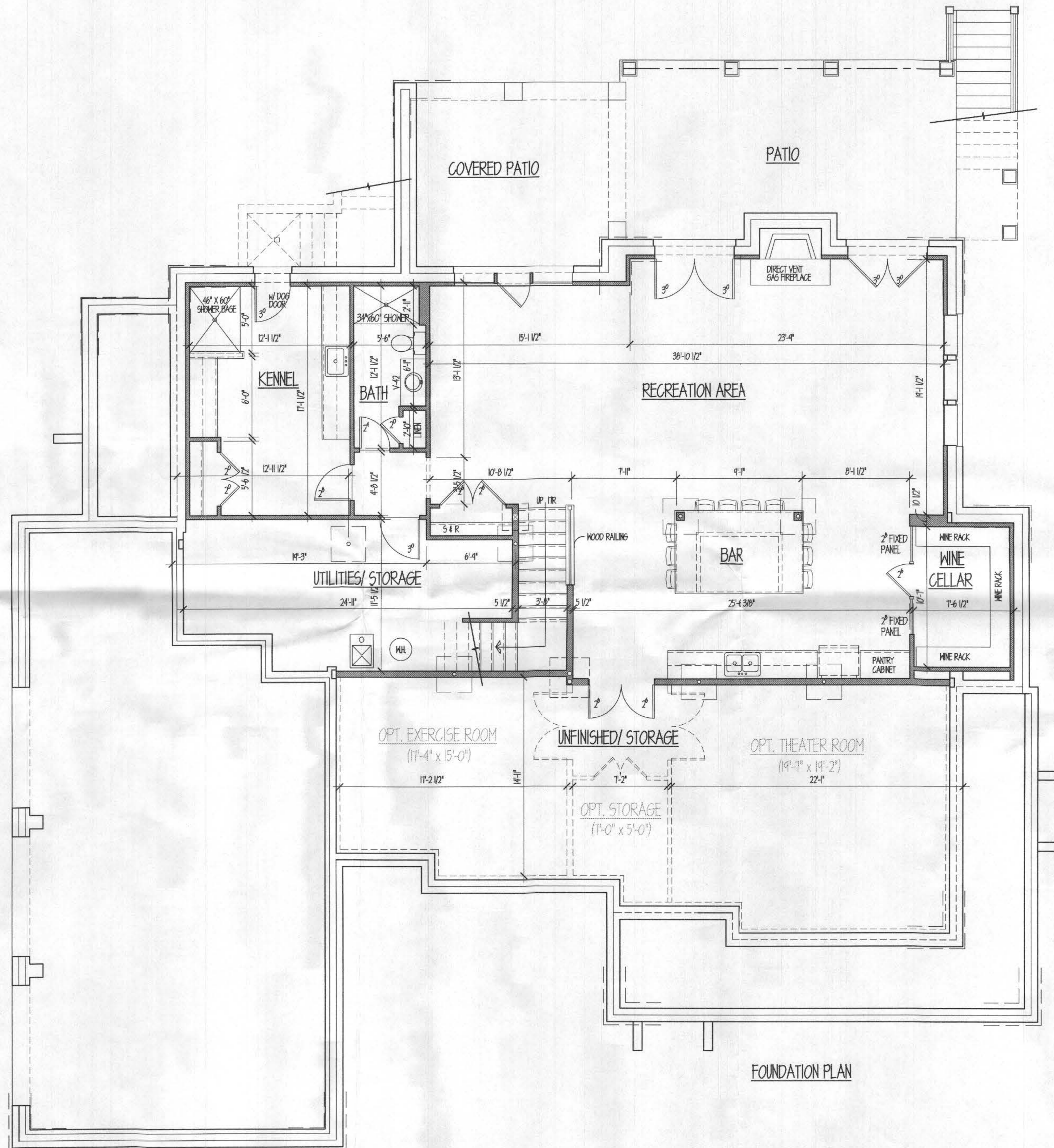
REVISIONS	
date	remarks

drawn by	EC	checked by	TOM 2-4-2016
scale	1/4" = 1'-0"	date	10-22-2015

PROJECT TITLE
YUN RESIDENCE
11580 CHAPEL RISE

CONTENT
FOUNDATION PLAN

PROJECT NUMBER	DRAWING NUMBER
2623	A2.1



FOUNDATION PLAN

PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 3367-R, EXPIRATION DATE 12/7/17

dw taylor
 associates, inc
 ARCHITECT

5024 DORSEY HALL DR. SUITE 203 ELLICOTT CITY, MD 21042
 P.(410) 964-1181 F. (410) 997-2824 www.dwtaylor.com

BID & PERMIT SET

REVISIONS	
date	remarks

drawn by	EC	checked by	TOM 2-4-2016
scale	1/4" = 1'-0"	date	10-22-2015

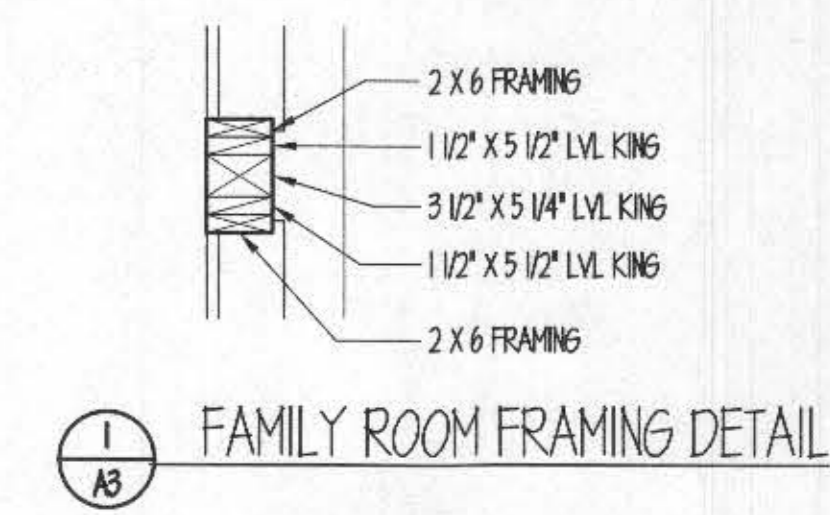
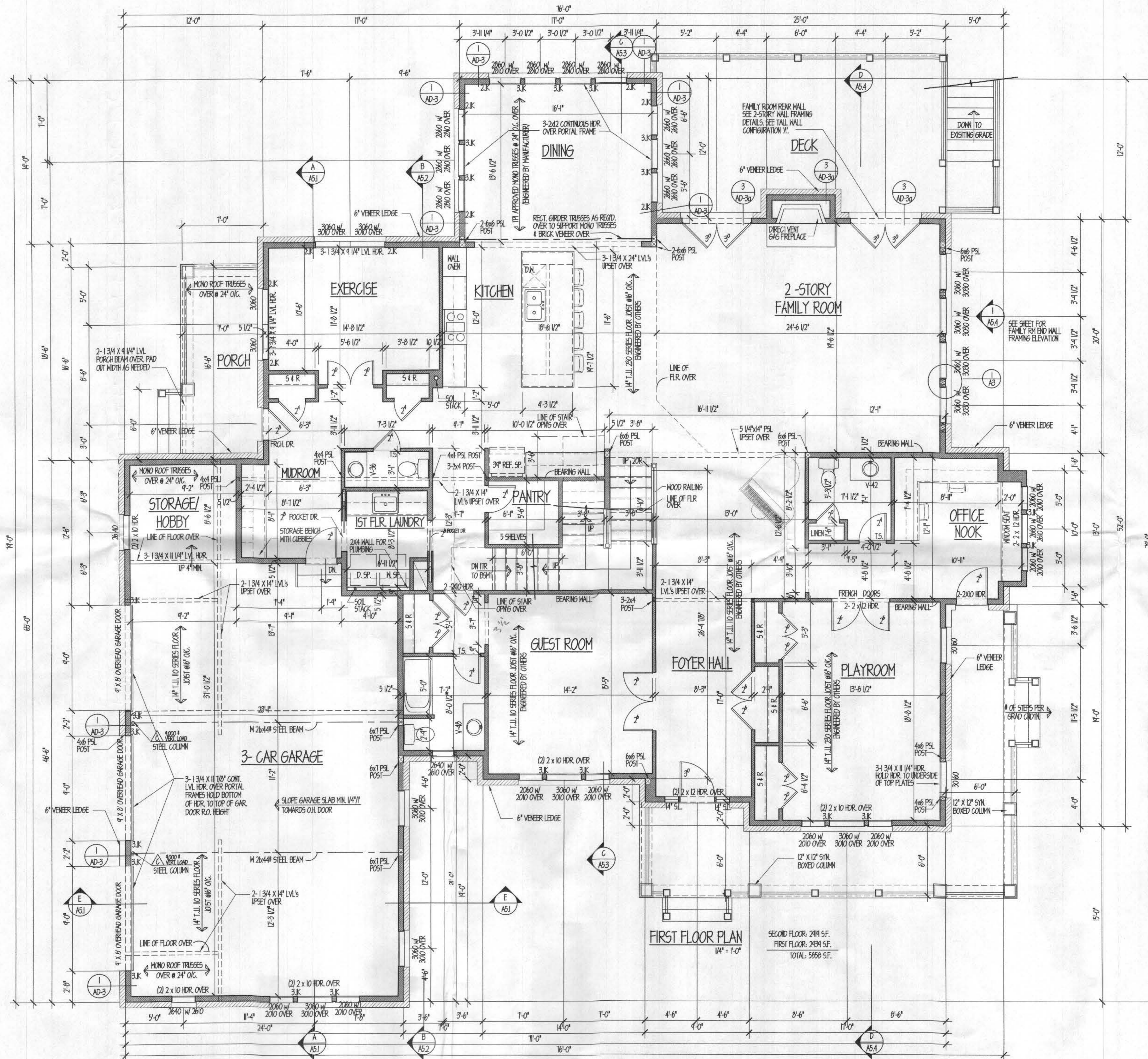
PROJECT TITLE

YUN RESIDENCE
 11580 CHAPEL RISE

CONTENT

LOWER LEVEL PLAN

PROJECT NUMBER	DRAWING NUMBER
2623	A2.2



PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A SELF LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 3367-R, EXPIRATION DATE 10/7/17

dw taylor
 associates inc
 ARCHITECT

5024 DORSEY HALL DR. SUITE 203 ELICOTT CITY, MD 21042
 P.(410) 964-1181 F. (410) 997-2924 www.dwtaylor.com

BID & PERMIT SET

REVISIONS	
date	remarks

drawn by EC checked by TOM 2-4-2016
 scale 1/4" = 1'-0" date 10-22-2015

PROJECT TITLE

YUN RESIDENCE
 11580 CHAPEL RISE

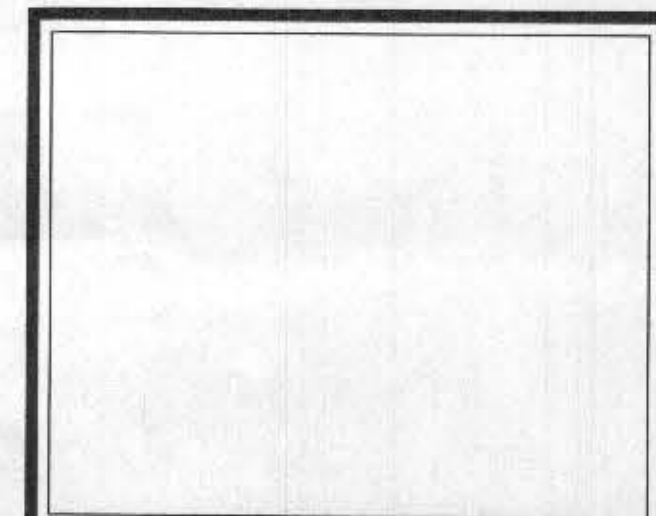
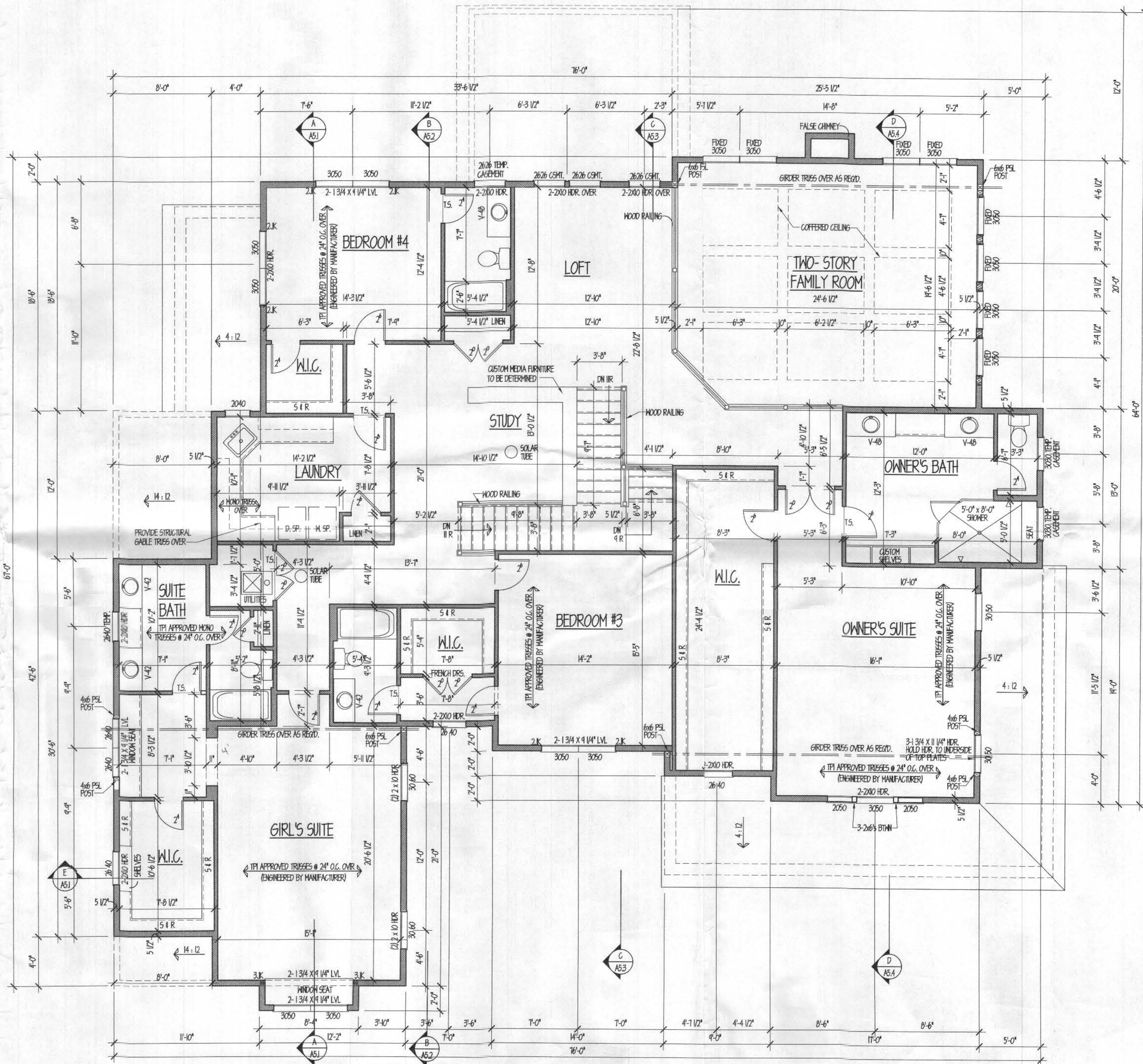
CONTENT

FIRST FLOOR PLAN

PROJECT NUMBER	DRAWING NUMBER
2623	A3

FIRST FLOOR PLAN
 1/4" = 1'-0"

SECOND FLOOR: 2494 SF.
 FIRST FLOOR: 2834 SF.
 TOTAL: 5328 SF.



PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 3502-R, EXPIRATION DATE 10/31/17

dw taylor
 associates inc
 ARCHITECT

5024 DORSEY HALL DR, SUITE 203 ELLICOTT CITY, MD 21042
 P: (410) 964 1181 F: (410) 997 2824 www.dwtaylor.com

BID & PERMIT SET

REVISIONS	
date	remarks

drawn by	EG	checked by	TOM 2-4-2016
scale	1/4" = 1'-0"	date	10-22-2015

PROJECT TITLE

**YUN RESIDENCE
 11580 CHAPEL RISE**

CONTENT

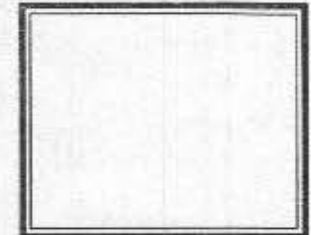
SECOND FLOOR PLAN

PROJECT NUMBER	DRAWING NUMBER
2623	A4

Approved RIZ # 1518002008
6/19/2018

Heath

RECEIVED
JUN 13 2018
HOWARD COUNTY HEALTH DEPT.
FOOD PROTECTION PROGRAM



dw taylor
associates, inc
ARCHITECT
2000 CHERRY HILL, SUITE 200, CLAYTON, MD 21036
741-210-1181 F. 410-387-7828 www.dwtaylor.com

BID & PERMIT SET

REVISIONS	DATE	DESCRIPTION
1	10-4-2017	CLIENT UPGRADE 4 REAR EXTERIOR

Drawn by: EC
Checked by: JCM 2-4-2018
Scale: 1/4" = 1'-0"
Date: 10-22-2015

PROJECT TITLE
**YUN RESIDENCE
11500 CHAPEL RISE**

CONTENT
FRONT ELEVATION

PROJECT NUMBER: 2623
DRAWING NUMBER: A.I.

REVISIONS
 10-22-2010
 10-22-2010



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

dw taylor
 ASSOCIATES, INC.
 ARCHITECT
 1001 BERRY HILL DR. SUITE 200 ELIZABETH CITY, NJ 07208
 P.O. BOX 11817, 201-992-2021 www.dwtaylor.com

BID & PERMIT SET

NO.	DATE	DESCRIPTION
10-2-2010	10-2-2010	10-2-2010

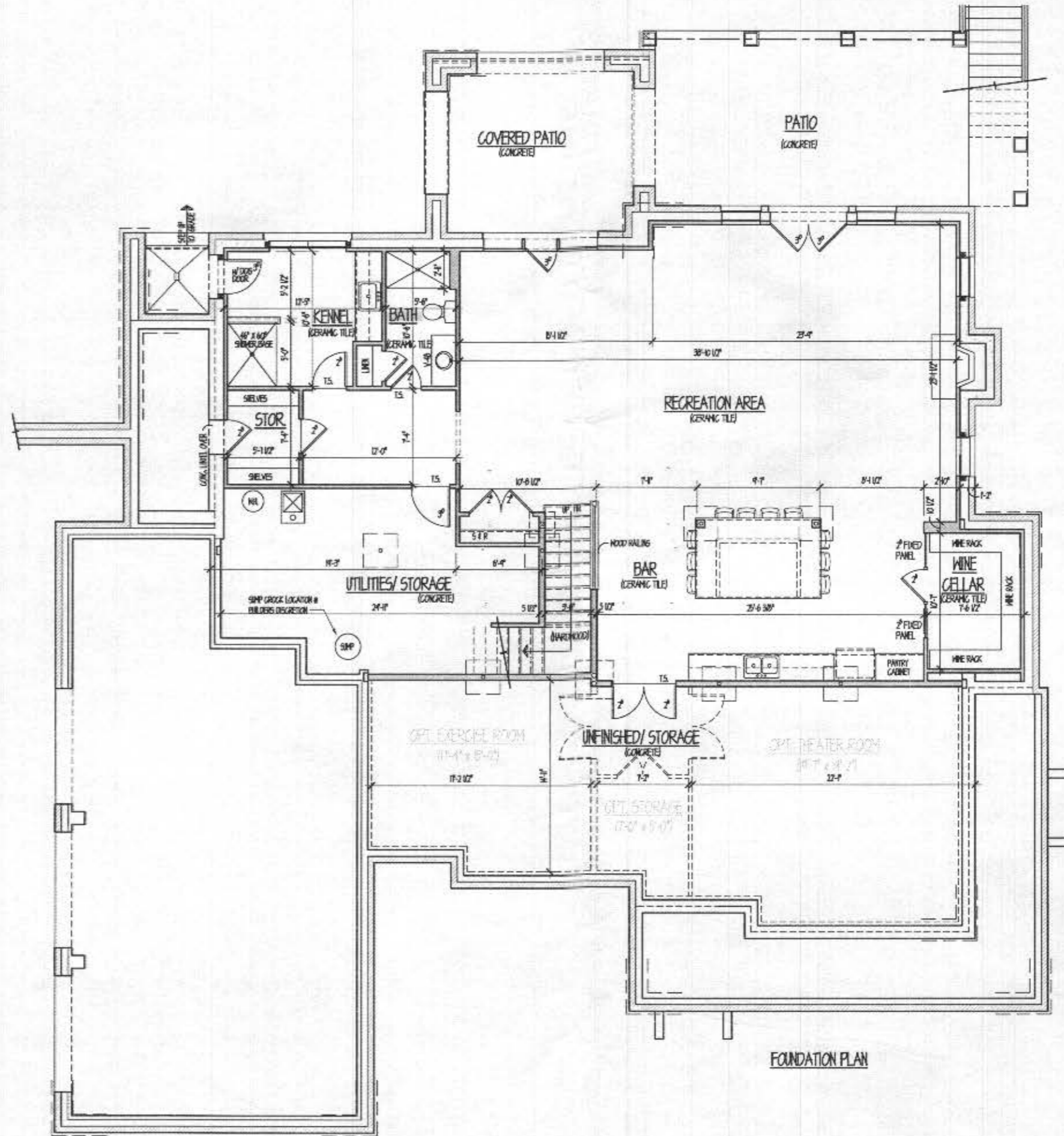
Drawn by	EG	Checked by	TCM 2-4-2010
Date	10-22-2010	Date	10-22-2010

PROJECT TITLE
 YUN RESIDENCE
 11500 CHAPEL RISE

CONTENT
 REAR ELEVATION

PROJECT NUMBER	DRAWING NUMBER
2623	A1.3

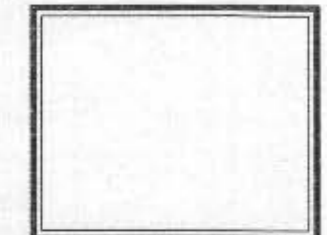
DATE: 10/22/2010 10:45:00 AM



FOUNDATION PLAN



NOTE:
Refer to 'A07' sheets for larger scale construction details, materials, application, finishing and weather protection requirements that may not be explicitly defined on this sheet.



PROFESSIONAL ARCHITECTURE I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE # 12428, EXPIRES DATE 10/22/16

dw taylor
associates, inc
ARCHITECT

1100A BERRY HALL DR. SUITE 200 BLAIRSTOWN, NC 28014
704-293-1100 F. 704-293-2001 www.dwtaylor.com

BID & PERMIT SET

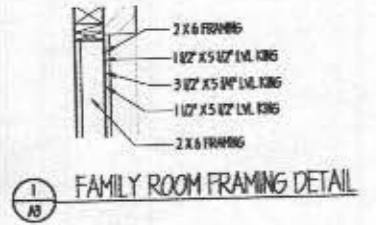
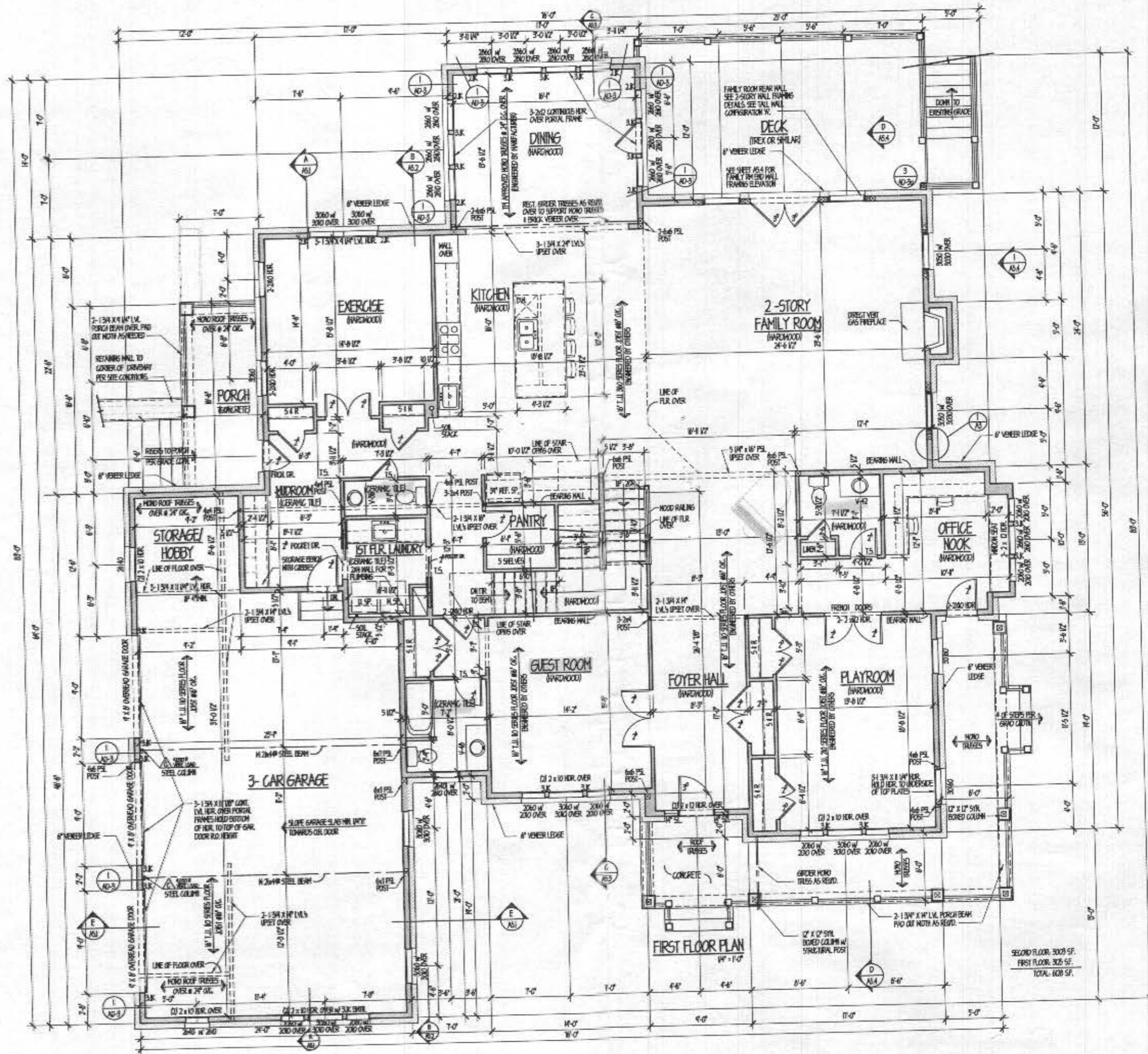
DATE	DESCRIPTION
12-4-2011	CLARITY REVISION # BEAR EXTERIOR

Drawn by: EC Checked by: TOM 2-4-2016
Scale: WP = 1/8" Date: 10-22-2016

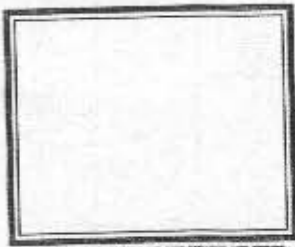
PROJECT TITLE
**YUN RESIDENCE
11580 CHAPEL RISE**

CONTENT
LOWER LEVEL PLAN

PROJECT NUMBER 2623	DRAWING NUMBER A2.2
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NOTE:
 Refer to 'NOT' sheets for larger scale connection details, materials, application, flashing and weather protection requirements that may not be sufficiently defined on this sheet.



dw taylor
 ASSOCIATES, INC.
 ARCHITECT

1024 WINDY HILL BL. SUITE 200 ELBERTON, MO 65704
 724-243-1181 F. 724-243-2024 www.dwtaylor.com

BID & PERMIT SET

NO.	DATE	DESCRIPTION
1	10-22-2015	CLIENT ISSUANCE OF PERMIT APPLICATION

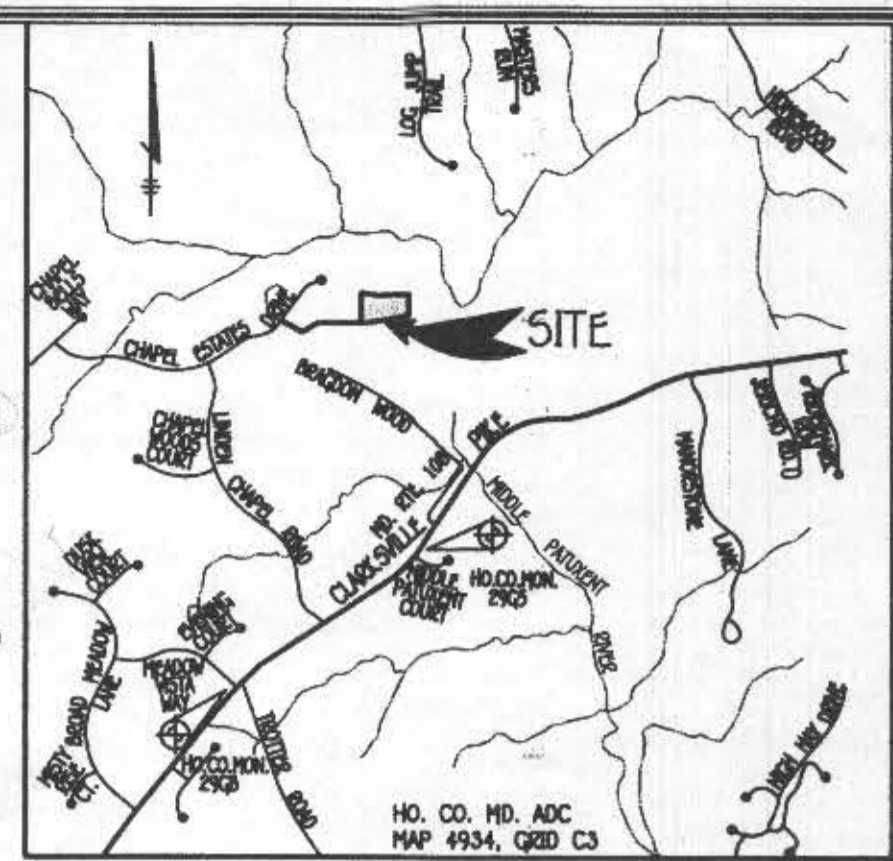
PROJECT TITLE
**YUN RESIDENCE
 11580 CHAPEL RISE**

CONTENT
FIRST FLOOR PLAN

PROJECT NUMBER 2623	DRAWING NUMBER A3
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STORMWATER MANAGEMENT PRACTICES	
ADDRESS	MICRO-BIORETENTION (NUMBER)
11580 CHAPEL RISE	2

STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	1,421	1,423	MICRO-BIORETENTION (M-6)
TOTAL	1,421	1,423	

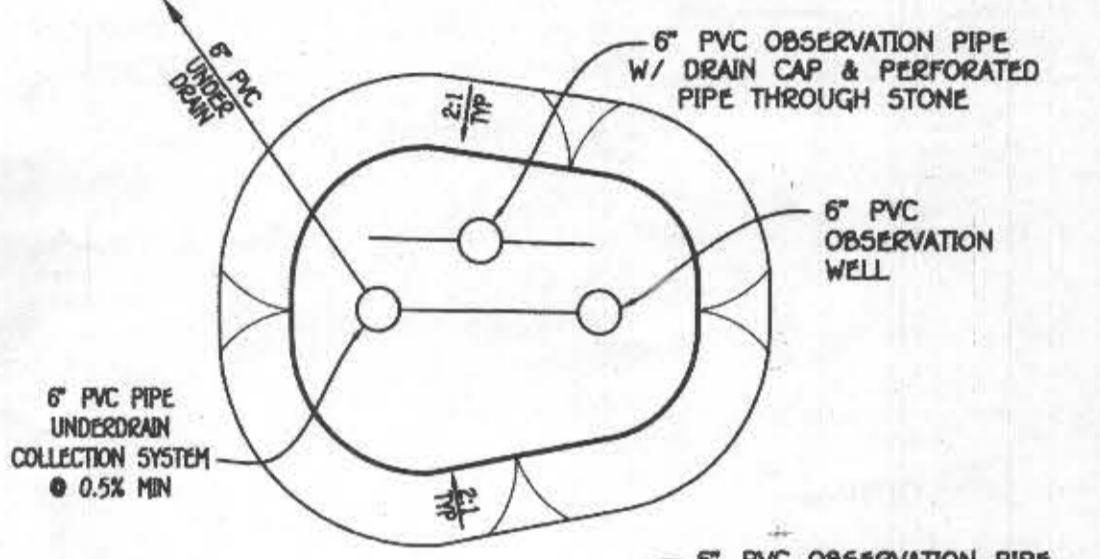


GROSS AREA = 3.07 ACRES
 LOD = 0.98 ACRES (SITE)
 BCN = 55
 TARGET Pe = 1.4"

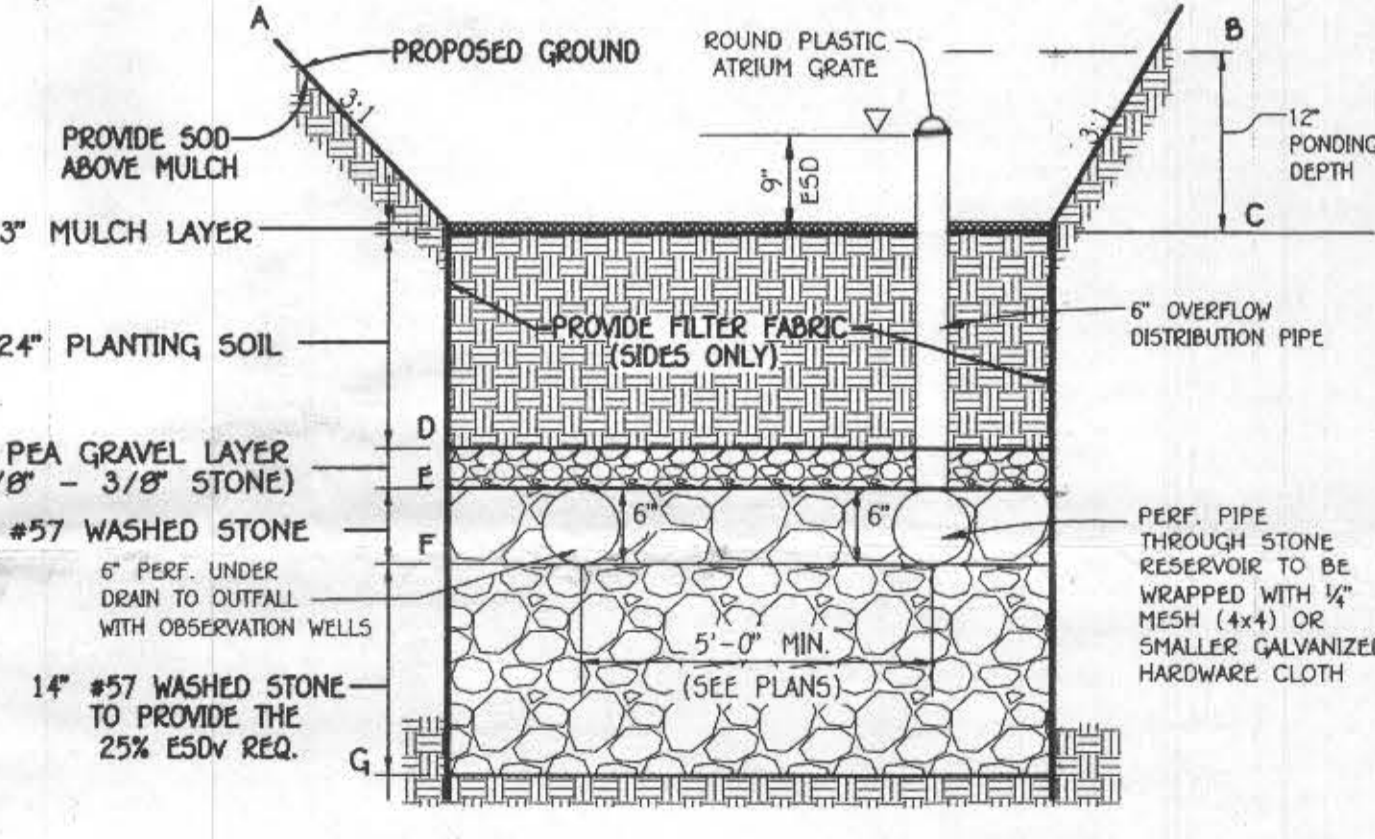
- MIXED PERENNIALS
 - CUT-LEAF CONIFER (1.5' SP.)
 - BERBERIS (1.5' SP.)
 - JOE-PYE-WOOD (5' SP.)
 - SILKY DOGWOOD
 - SEE PLANT MATERIAL SCHEDULE FOR QUANTITIES AND SPACING
- NOTE: PLANT MATERIAL MUST COVER AT LEAST 50% OF THE SURFACE AREA OF THE MICRO-BIORETENTION

MICRO-BIORETENTION								
MICRO-BIO FILTER	A	B	C	D	E	F	G	H
1	408.00	408.00	407.00	405.00	404.75	404.25	403.00	401.75
2	398.00	398.00	397.00	395.00	394.75	394.25	393.00	391.75

MICRO-BIORETENTION PLANT MATERIAL			
MICRO-BIO QUANTITY	MICRO-BIO2 QUANTITY	NAME	MAXIMUM SPACING (FT.)
50	30	MIXED PERENNIALS	1.5 TO 3.0 FT.
2	1	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

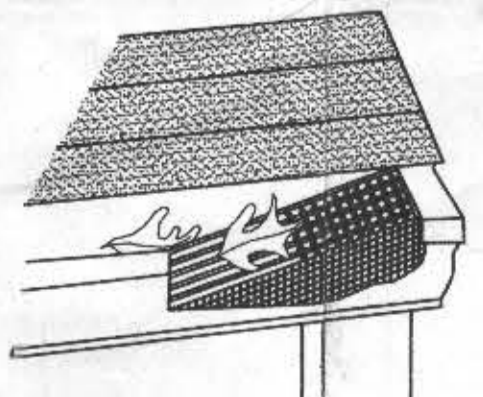


MICRO BIO-RETENTION PLANTING
 NOT TO SCALE



MICRO BIO-RETENTION SECTION WITH 6" OVERFLOW DISTRIBUTION PIPE
 NO SCALE

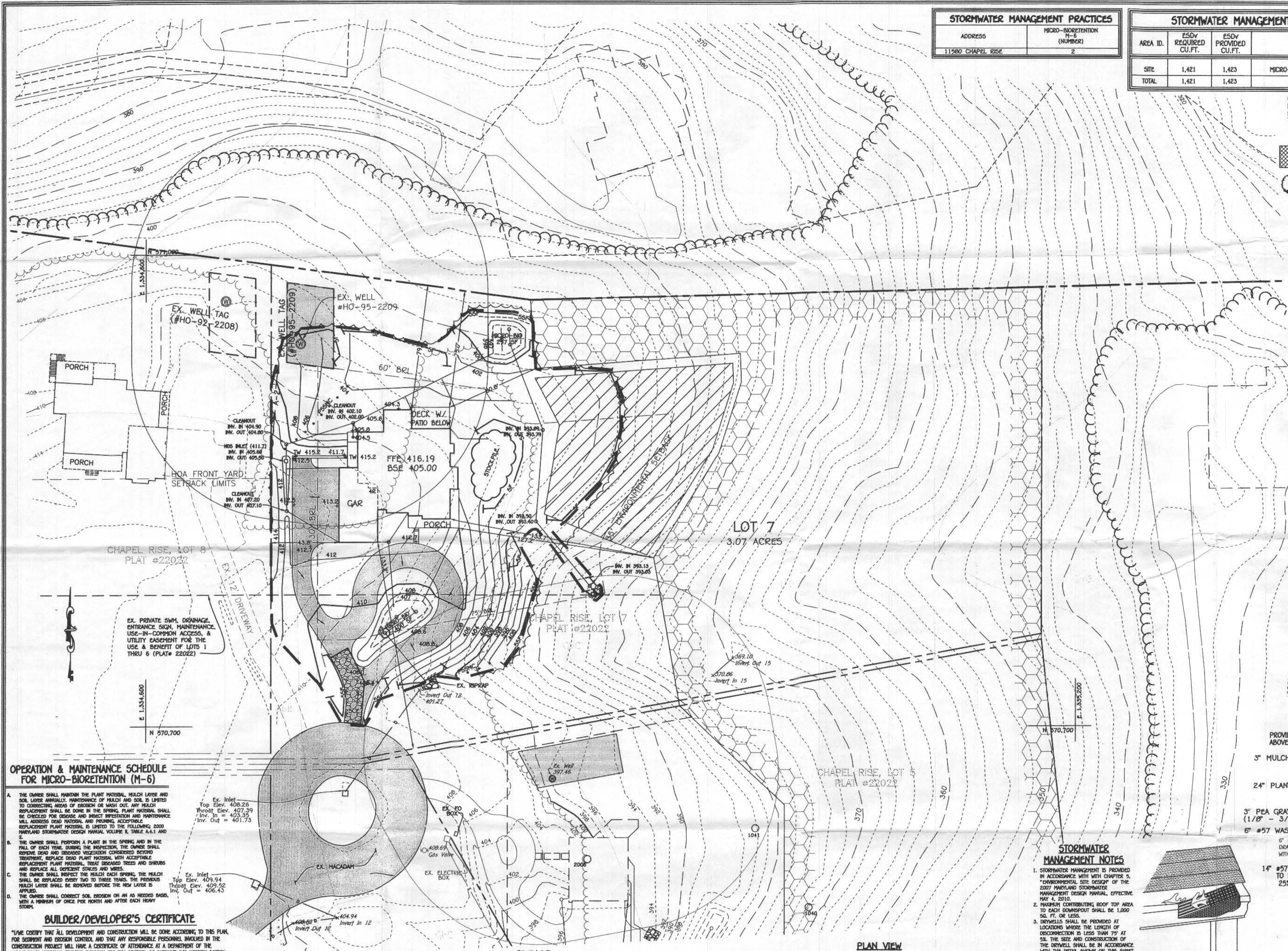
- STORMWATER MANAGEMENT NOTES**
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, ENVIRONMENTAL SITE DESIGN OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
 - MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
 - DOWNSPOUTS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% SLOPE AND CONSTRUCTION OF THE DOWNSPOUT SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
 - FINAL GRADING IS SHOWN ON THIS PLAN.



GUTTER DRAIN FILTER DETAIL
 NOT TO SCALE

SOILS LEGEND		
SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B
GbC	Gladstone loam, 8 to 15 percent slopes	B
MAD	Major loam, 15 to 25 percent slopes	B

GRADING AND SEDIMENT & EROSION CONTROL PLAN
CHAPEL RISE
 LOT 7
 ZONED RC-DEO PLAT NO. 22022
 TAX MAP NO.: 29 GRID NOTED B & 14
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30'
 DATE: JANUARY, 2018
 SHEET 1 OF 2



OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME 2, TABLE A-4.1 AND F.
- THE OWNER SHALL PROVIDE A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TRIM DISOBERSED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES. THE OWNER SHALL INSPECT THE MULCH EACH SPRING, THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS, THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

BUILDER/DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer
 DATE: 2/12/18
 SCHEDULED DEVELOPER

OWNER

YONG YUN & QING LI
 10062 CARILLON DRIVE
 ELLICOTT CITY, MD 21104

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36366, EXPIRATION DATE: 01/12/2020.

Signature of Professional Engineer
 DATE: 2/11/18

ENGINEER'S CERTIFICATE

"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Engineer
 DATE: 2/11/18

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10772 BATHURST ROAD
 ELICOTT CITY, MARYLAND 21117
 (410) 461-2885

Approved 131802008
 RAH 6/17/2018
 B18002008

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

A. Soil Preparation

- 1. Temporary Stabilization
a. Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment...
b. Apply fertilizer and lime as prescribed on the plans.
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
d. Permanent Stabilization
1. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
i. Soil pH between 6.0 and 7.0.
ii. Soluble salts less than 500 parts per million (ppm).
iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture.
iv. Soil contains less than 30 percent silt plus clay would be acceptable.
v. Soil contains 1.5 percent minimum organic matter by weight.
vi. Soil contains sufficient pore space to permit adequate root penetration.
2. Application of amendments to topsoil is required if on-site soils do not meet the above conditions.
c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means.
f. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seeded preparation.
g. Conditions will not permit normal seeded preparation. Track slopes 1:1 or flatter with tracked equipment leaving the soil in an irregular condition parallel to the contour of the slope.
h. Soil in an irregular condition parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seeded loosening may be unnecessary on newly disturbed areas.

B. Topsoiling

- 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
c. The original soil to be vegetated contains material toxic to plant growth.
d. The soil is so acidic that treatment with limestone is not feasible.
4. Areas having slopes steeper than 2:1 require special consideration and design.
5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
a. Topsoil must be a loam, sandy loam, clay loam, silt loam, silty clay loam, or loamy sand. Other soils may be used if recommended by a soil scientist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, rocks, trash, or other materials larger than 1 1/2 inches in diameter.
b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
6. Topsoil Application
a. Erosion and sediment control practices must be maintained when applying topsoil.
b. Uniformly distribute topsoil in a 5 to 10 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or soil compaction will be minimized.
c. Topsoil must be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

- 1. Soil tests must be performed to determine the exact rates and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a registered private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must be fully delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark, and warranty of the producer.
3. Lime materials must be ground and screened (hydrated or burnt lime may be substituted except when hydrous) which contains at least 90 percent total calcium (calcium plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (2000-4000 pounds per 1000 square feet) prior to the placement of topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

- The application of seed and mulch to establish vegetative cover.
Purpose: To protect disturbed soils from erosion during and at the end of construction.
Conditions: Apply seed and mulch to the surface of all perimeter control, slopes, and any disturbed area not under active grading.
Details:
A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of seeding such material on any project. Refer to Table B.4 regarding the quality of seed. Seed must be suitable upon request to the inspector to verify type of seed and seeding rate.
b. Match seed may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
c. Inoculants: The inoculant for treating legume seed in the seed mixture must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydrous seed. Note: It is very important to keep inoculant on cool as possible until used. Temperature above 75 to 80 degrees Fahrenheit can render bacteria and make the inoculant less effective.
d. Seed or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit discharge of phytotoxic materials.
2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast application.
b. Inoculated seed into the subsoil of the rates prescribed on Temporary Seeding Table B.3, Permanent Seeding Table B.3, or site-specific seeding summaries.
c. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seed into the soil with a roller.
d. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
e. Hydrous seeding: Apply seed uniformly with hydrometer (heavy include seed and fertilizer).
f. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre of total soluble nitrogen; P₂O₅ (phosphorus), 200 pounds per acre; K₂O (potassium), 200 pounds per acre.
g. Lime use rates (up to 3 tons per acre may be applied by hydrous seeding). Normally, not more than 2 tons are applied by hydrous seeding of any one site. Do not use burnt or hydrated lime when hydrous seeding.
h. Mix seed and fertilizer on site and seed immediately and without interruption.
i. When hydrous seeding do not incorporate seed into the soil.

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: [Signature] DATE: 2/11/18

B. Mulching

- 1. Mulch materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weeds as specified in the Maryland State Seed Law and not matted, moldy, decayed, or excessively dirty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
b. Wood Cellulose Fiber Mulch (WCFF) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
i. WCFF is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformity of spread rate.
ii. WCFF, including dye, must contain no germination or growth inhibiting factors.
iii. WCFF materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a water-soluble ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
iv. WCFF material must not contain stemmets or components of concentration levels that will be phytotoxic.
v. WCFF must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, cation content of 1.8 percent maximum and water holding capacity of 90 percent minimum.
2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread 1/2 inch of seed over the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
c. Wood cellulose fiber mulch used on slopes must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to obtain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
3. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the site of the area and equipment hazard:
i. A mulch anchoring tool is a tractor driven implement designed to spread and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to further slopes where equipment can operate safely. Use on sloping land, this practice should follow the contour.
ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder of a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water to a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
iii. Synthetic binders such as Acrylic Acid (Ago-Tac), DCA-70, Petro-Tac, Terra-Tac II, Terra-Tac III, or other approved agent may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches much, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-5 feet wide and 300 to 3000 feet long.

TEMPORARY SEEDING NOTES (B-4-4)

- Definition: To stabilize disturbed soils with vegetation for up to 6 months.
Purpose: To use fast growing vegetation that provides cover on disturbed soils.
Conditions Where Practice Applies: Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.
Criteria:
1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.
Temporary Seeding Summary
Hardiness Zone (from Figure B.3): 6b
Seed Mixture (from Table B.1):
Species Application Rate (lb/acre) Seeding Dates Seeding Depth Fertilizer Rate (10-20-20) Lime Rate (2 tons/acre)
BARKLEY 95 3/1 - 5/15, 8/15 - 10/15 1" 436 lb/acre 2 tons/acre
OATS 72 1" (10 lb/1000 sf)
RYE 112 1" (1000 sf)

PERMANENT SEEDING NOTES (B-4-5)

- A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be used in USA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
c. For sites having disturbed areas over 5 acres, use and show the rates recommended by the soil testing agency. Do not use rates for maintenance, apply urea fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
2. Turfgrass Mixtures
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will require a medium to high level of maintenance.
b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the State of Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Rye/Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. For use or more cultivars may be blended.
iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in bluegrass lawns. For establishment in high quality, intensively managed turf areas. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent, Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.
Notes:
Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"
Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.
c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 1 to June 1, August 1 to October 1 (Hardiness Zone: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 7b, 7c)

Table B.4. Materials Specifications for Micro-Bioretenition, Rain Gardens & Landscape Infiltration

Table with 4 columns: Material, Specification, Size, Notes. Rows include: Phytogels, Filtering soil, Durlin drain, Geotextile, Gravel (underdrains and infiltration berms), Underdrain piping, Poured in place concrete (if required), Sand.

Builder/Developer's Certificate

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

B. General: To provide quick cover on disturbed areas (2:1 grade or flatter).

- 1. General Specifications
a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
b. Sod must be machine cut to a uniform soil thickness of 3/4 inch, plus or minus 1/8 inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and top or uneven ends will not be acceptable.
c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.
2. Sod Installation
a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping, and irrigating for any piece of sod within eight hours.
3. Sod Maintenance
a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
b. After the first week, soil wetting is required as necessary to maintain adequate moisture content.
c. Do not mow until the sod is firmly rooted. No more than 1/2 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

- 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LDD and protected areas are marked clearly in the field. A minimum of 48 hours notice to CID must be given at the following stages:
a. Prior to the start of earth disturbance.
b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.
c. Prior to the start of another phase of construction or opening of another grading unit.
d. Prior to the removal or modification of sediment control practices.
Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced to ensure coordination and to avoid conflicts with this plan.
All negative and structural information to be furnished to the CID. The site and all control structures shall be inspected by 1 vertical (V1); and seven (7) vertical (V2); and seven (7) vertical (V3) standards and specifications for soil erosion and sediment control, and revisions thereto.
Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days to the surface of all perimeter control, dikes, erosion ditches, waterway slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) vertical (V3); and seven (7) vertical (V3) standards and specifications for soil erosion and sediment control, and revisions thereto.
All disturbed areas on the project site except for those areas under active grading.
OSHOEN AND SEDIMENT CONTROL, for (approved) (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3).
B-4-1 specifications shall be applied to areas with 2:1 or flatter slopes. Stabilization (Sec. B-4-5) shall be applied to areas with slopes steeper than 2:1.
All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.
Site Analysis:
Total Area of Site: 0.07 Acres
Area to be seeded or paved: 0.28 Acres
Area to be vegetatively stabilized: 0.28 Acres
Total Cut: 550 Cu. Yds.
Total Fill: 550 Cu. Yds.
Other notes/borrow bank location: N/A
Any sediment control practice which is disturbed by grading activity for placement of utilities must be replaced on the same day of disturbance.
The construction of utility lines shall be coordinated with the CID. The site and all control structures shall be inspected by 1 vertical (V1); and seven (7) vertical (V2); and seven (7) vertical (V3) standards and specifications for soil erosion and sediment control, and revisions thereto.
The end of each workday, whenever it is shorter.
If any major change or revision to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction.
Whenever the construction of utility lines is to be installed, the site and all control structures shall be inspected by 1 vertical (V1); and seven (7) vertical (V2); and seven (7) vertical (V3) standards and specifications for soil erosion and sediment control, and revisions thereto.
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