

GENERAL NOTES:

- SCOPE OF WORK TO INCLUDE CONSTRUCTION AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. EACH CONTRACTOR TO FURNISH ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION. EACH CONTRACTOR SHALL RESPECT WORK OF OTHER CONTRACTORS AND BE RESPONSIBLE AND LIABLE TO REPLACE OR REPAIR ANY DAMAGE CAUSED BY THEIR WORK.
- CODES: ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL CODES AND STATE CODES AND REGULATIONS HAVING JURISDICTION. THE CONTRACTOR SHALL PROTECT AND INDEMNIFY THE OWNER AND DESIGNER AGAINST ANY CLAIM OR LIABILITY ARISING FROM VIOLATION OF ANY SUCH CODE REGULATION.
- THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS, INSPECTIONS AND APPROVALS.
- QUALITY: WORKMANSHIP SHALL BE OF THE HIGHEST TYPE AND MATERIALS USED OR SPECIFIED OF THE BEST QUALITY THAT THE MARKET AFFORDS. ALL INSTALLATION AND APPLICATIONS SHALL CONFIRM TO MANUFACTURER'S SPECIFICATION.
- COORDINATION OF THE WORK: THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUBCONTRACTORS AND MECHANICAL TRADES WHETHER THEY RECEIVE CONTRACT FROM THE CONTRACTOR OR THE OWNER. THE CONTRACTOR'S INSTRUCTIONS SHALL BE FOLLOWED BY ALL TRADES.
- MECHANICAL TRADES: THE MECHANICAL AND ELECTRICAL TRADES SHALL INSTALL THEIR WORK RAPIDLY AS THE OTHER WORK PERMITS, AND SHALL COMPLETE THIS WORK BY THE TIME THE OTHER TRADES HAVE FINISHED.
- EXAMINATION OF THE SITE AND DOCUMENTS: THE CONTRACTOR, BEFORE SUBMITTING HIS PROPOSAL, SHALL VISIT THE SITE AND EXAMINE FOR HIMSELF ALL CONDITIONS AND LAMINATIONS WHICH EFFECT THE CONTRACT. HE SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS TITLES AND SUBDIVISIONS IN THESE DOCUMENTS ARE FOR CONVENIENCE AND NO REAL OR ALLEGED ERRORS IN ARRANGEMENT OF MATTER SHALL BE REASON FOR OMISSION OR DUPLICATION BY ANY CONTRACTOR.
- SEPARATE CONTRACTS: THE OWNER RESERVES THE RIGHT TO LEFT OTHER CONTRACTS IN CONNECTION WITH THE WORK. THE GENERAL CONTRACTOR SHALL AFFORD OTHER CONTRACTS REASONABLE OPPORTUNITY FOR THE EXECUTION OF THEIR WORK AND SHALL PROPERLY CONNECT AND COORDINATE HIS WORK WITH THEIRS.
- GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE UNLESS SPECIFIED OTHERWISE FOR LONGER PERIOD OF TIME OF CERTAIN ITEMS.
- TRASH REMOVAL: EACH CONTRACTOR SHALL PROVIDE FOR TRASH REMOVAL. IF TRASH AND DEBRIS ARE NOT REMOVED, THE OWNER MAY (AT HIS OPTION) PAY FOR ITS REMOVAL AND BACK CHARGE THE CONTRACTOR UNLESS OWNER AGREE IN CONTRACT TO PAY FOR TRASH REMOVAL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNER BEFORE PROCEEDING WITH WORK.
- DESIGN LIVE LOADS: ROOF 35#/SQ.FT. , FIRST FLOOR 40#/SQ.FT. , SECOND FLOOR 30#/SQ.FT.
- HEATING, PLUMBING, AIR CONDITIONING AND ELECTRICAL ARE PART OF THIS THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZE OF OPENINGS FOR VENTS, PIPES, DUCTS, INSERTS, BOXES, HANGERS ETC.
- ALL SECTIONS, DETAILS, MATERIALS, METHODS, ETC. SHOWN AND/OR NOTED ON ANY PLAN OR SECTION SHALL APPLY TO ALL SIMILAR LOCATIONS UNLESS OTHERWISE NOTED.
- SOIL BEARING CAPACITY SHALL BE VERIFIED BY THE CONTRACTOR; FOUNDATION AND FOOTING DESIGN SHALL BE MODIFIED AS REQUIRED TO COMPLY WITH LOCAL WITH LOCAL AND STATE CODES REGARDING LOCAL SOIL CONDITIONS. (VERIFY SOILS PRIOR TO INSTALLATION OF FOOTINGS).
- THE GENERAL CONTRACTOR SHALL SAFELY SHORE, BRACE OR SUPPORT ALL WORK AS REQUIRED. THIS WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND NO ACT, DIRECTION OR REVIEW OF ANY SYSTEM OF METHOD BY THE DESIGNER SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY.
- IT IS NOT INTENT OF THESE DRAWINGS TO SHOW NOR INDICATE ANY OR ALL FASTENING OR FRAMING TECHNIQUES, DEVICES NOR BE ABLE TO SHOW ALL CONDITIONS PRESENT.
- IT IS THE OWNER RESPONSIBILITY TO SELECT ALL FINISHES: I.E. PAINT/STAIN, VINYL WALL COVERING, FLOOR MATERIAL, MOLDINGS AND ELECTRICAL RECEPTACLES, ETC. IT IS THE CONTRACTORS RESPONSIBILITY TO PURCHASE AND INSTALL ITEMS AS THE OWNER SELECTED ITEMS.
- BASEMENT PORTION OF THE PREMISES SHALL DRY. THIS CONDITION IS TO BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- GENERAL CONTRACTOR TO PROVIDE WORKMAN'S COMP. INSURANCE CERTIFICATE, BUILDERS RISK INSURANCE TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID.

DOORS:

- ALL EXTERIOR DOORS ARE TO BE MANUFACTURED BY TYPE "X" OR EQUAL. SPECIFIC TYPES ARE INDICATED ON PLANS. FINAL SELECTION BY OWNER.
- FRENCH WOOD GLIDING PATIO AS MANUFACTURED BY ATRIUM TYPE "X" (SEE PLAN FOR LOCATIONS). VERIFY IF LOW "E" GLASS IS REQUIRED, TO INCLUDE SCREENS, COLOR OF PERMASHIELD TO BE SAND. FINAL SELECTION BY OWNER.(MAY NOT APPLY TO THIS PROJECT).
- INTERIOR DOORS TO BE PRE MOLDED - 6 PANEL DOORS. FINAL SELECTION BY OWNER.

WINDOWS:

- ALL WINDOWS TO BE MANUFACTURED BY PELLA OR EQUAL. WINDOWS TO BE PERMASHIELD, HIGH PERFORMANCE WITH SCREENS, VERIFY IF LOW "E" GLASS IS REQUIRED, COLOR OF PERMASHIELD TO BE SAND. FINAL SELECTION BY OWNER.

EXTERIORS:

- MATCH EXISTING. PRIMER AS MANUFACTURED BY TYPE "X".
- CONTRACTOR TO FURNISH AND INSTALL WATER AND ICE SHIELD UNDER ROOF SHINGLES AT ALL EAVES, VALLEYS ETC.
- MATCH EXISTING AS MANUFACTURED BY TYPE "X" OR EQUAL, TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS OWNER TO SELECT COLOR.
- CONTRACTOR TO PROVIDE AND INSTALL A VENTED METAL DRIP EDGE OR SCREENED SOFFIT VENT AT ALL EVES.
- BUILT-IN IRONING BOARD AS MANUFACTURED BY TYPE "X".
- PAINTING AND/OR STAINING, TO BE GENERAL CONTRACTOR. OWNER TO SELECT COLORS, PAINT AS MANUFACTURED BY TYPE"X" STAIN AS MANUFACTURED BY TYPE "X".
- DECKING FOR DECKS TO BE 5/4 X 5 PRESSURE TREATED.

INTERIOR:

- ALL INTERIOR WOOD TRIM, I.E. MOLDINGS, CHAIR RAIL, CORNER, BLOCKS, PLINTH BLOCKS, DOOR TRIM, CASING, ETC. TO BE AS MANUFACTURED BY TYPE "X"(MAY NOT APPLY TO THIS PROJECT). CONTRACTOR TO PROVIDE SAMPLES TO OWNER FOR APPROVAL.
- BASEBOARDS THOUGH OUT TO BE 1 X 8 CLEAR, STAIN GRADE WITH APPLIED MOLDING.
- CONTRACTOR TO PROVIDE FOR WIDE WINDOW SILLS AT ALL WINDOWS.
- CONTRACTOR SHALL PROVIDE CROWN MOLDING IN SELECTED ROOMS, TO BE SELECTED BY OWNER (MAY NOT APPLY).
- DOOR MOLDING @ BASE TO BE ABOVE PLINTH BLOCKS, TYPICAL THROUGHOUT.
- CONTRACTOR SHALL REVIEW WITH OWNER EACH CLOSET INTERIOR AS TO SHELVING/RODS/DRAWERS ETC.
- ALL INTERIOR WALLS ARE TO RECEIVE A PLASTER SKIM COAT APPLIED ACHIEVE A SMOOTH, CONSISTENT FINISH.
- ALL CEILINGS ARE TO RECEIVE A FINISH. OWNER TO SELECT TEXTURE.
- ALL SUB FLOORING IS TO BE LEVEL WITH FLASH JOISTS AND PREPPED TO RECEIVE FINISH FLOORING AS INDICATED ON PLANS AND AS SELECTED BY OWNER.
- ALL INTERIOR FINISHES I.E.-PAINTING AND STAINING BY GENERAL CONTRACTOR. OWNER TO SELECT COLOR.
- CARPETING: FURNISHED AND INSTALLED BY CONTRACTOR OR OWNER.
- HARDWARE: I.E.,LOCKS SETS TO BE MANUFACTURED BY SCHLAGE OR EQUAL.

HEATING:

- THERMOSTAT LOCATION TO BE COORDINATED A/C CONTRACTOR & OWNER.
- HEATING SYSTEM WILL FORCED HOT WATER VIA FIN TUBE RADIATION OR BY GAS TO SIZE BOILER AND COORDINATE ZONING WITH OWNER.

AIR CONDITIONING / VENTILATION:

- CONTRACTOR TO PROVIDE AND INSTALL CENTRAL AIR CONDITIONING (MAY NOT APPLY TO THIS PROJECT).
- CONTRACTOR TO FURNISH AND INSTALL EXHAUST FANS FOR EACH BATHROOM AND LAV, AS MANUFACTURED BY NUT ONE, BROAN OR APPROVED EQUAL.

ELECTRICAL:

- CONTRACTOR TO PROVIDE ALL MATERIAL (SUBJECT TO VERIFY WITH CONTRACT).
- CONTRACTOR SHALL FURNISH AND INSTALL WIRING FOR TELEPHONE JACKS AND CABLE TV OUTLETS. LOCATION TO BE SELECTED BY OWNER.
- CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE.
- CONTRACTOR TO COORDINATE WITH OWNER FOR INSTALLATION OF OWNERS SECURITY ALARM SYSTEM (MAY NOT APPLY).
- OWNER TO SELECT TYPE TYPE AND COLOR OF ALL ELECTRICAL RECEPTACLES AND SWITCHES, DESIGNER SERIES, AS MANUFACTURED BY LUTRON OR APPROVED EQUAL.
- ALL SWITCHES TO BE MANUFACTURED BY LIGHTOLIER, PROGRESS OR EQUAL.
- CONTRACTOR TO FURNISH AND INSTALL SURFACE MOUNTED, BARE, BULB, FLUORESCENT LIGHT FIXTURES IN BASEMENT (UNFINISHED AREAS), SWITCHING WITH OWNER.
- LIGHTING FIXTURE LAYOUT ON PLANS ARE SUGGESTED, REVIEW ALL LIGHTING WITH OWNER PRIOR TO ROUGH-IN.
- CONTRACTOR TO FURNISH AND INSTALL SURFACE MOUNTED, 18" BARE BULB FLUORESCENT LIGHT FIXTURES IN SELECTED CLOSETS (SEE PLAN).
- ALL RECEPTACLES, LIGHTING, SWITCHES, ETC. TO BE REVIEWED WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE 3 WATERPROOF OUTLETS AT EACH SIDE OF BUILDING/ADDITION (MAY NOT APPLY).
- ELECTRICAL RECEPTACLES AS PER CODE

5035 B Street S.E. Washington, DC 20019

BUILDING DATA

ADDRESS:

5035 B STREET S.E.
WASHINGTON, DC 20019

LOT SIZE: 4,000 SQ.FT.

LOT - 10
SQUARE - 5325

OWNER:

MIHAI PSEDERSKI
202-695-3035

SCOPE OF WORK

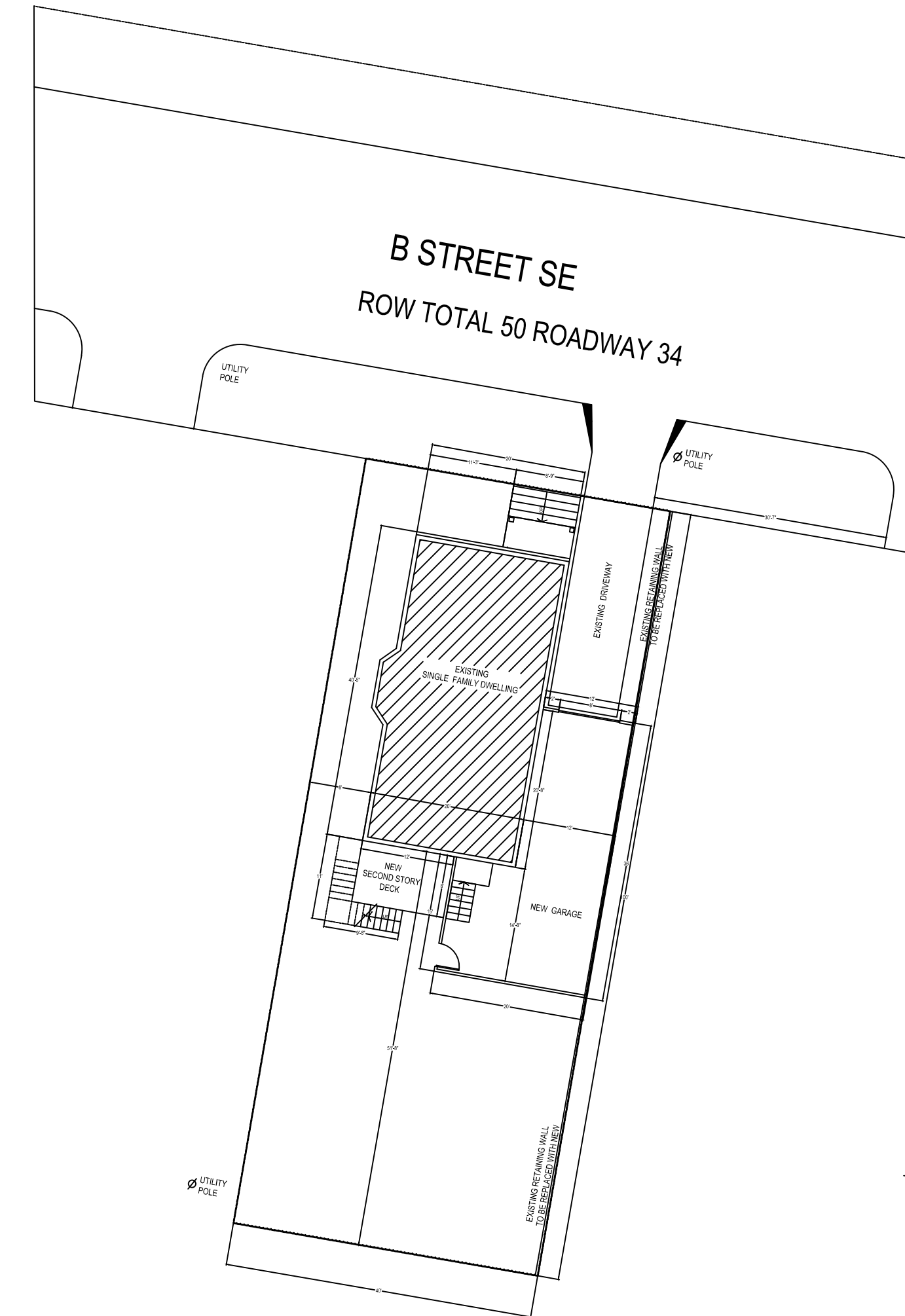
- NEW 2-CAR ATTACHED GARAGE.
- NEW SECOND STORY DECK.
- REPLACING OF EXISTING RETAINING WALL WITH NEW WALL.
- REPLACING/FIXING EXISTING CONCRETE DRIVEWAY.
- REPLACING ON OF EXISTING WOOD FENCE.

APPLICABLE CODES:

2012 ICC Building Code
2011 National Electrical Code
2012 ICC Fire Code

LIST OF DRAWINGS

0000	COVER PAGE
A001	EXISTING FLOOR PLAN
A002	PROPOSED FLOOR PLAN
A003	ELEVATIONS
A004	BUILDING CROSS-SECTION
S001	FOUNDATION & ROOF PLAN
S002	FRAMING PLAN & DETAILS
D001	SITE PLAN
D002	DRAINING PLAN
E001	ELECTRICAL PLAN
B001	EROSION CONTROL
B002	SPECS AND DETAILS



1 SITE PLAN
A000 SCALE: 1/16" = 1'-0"

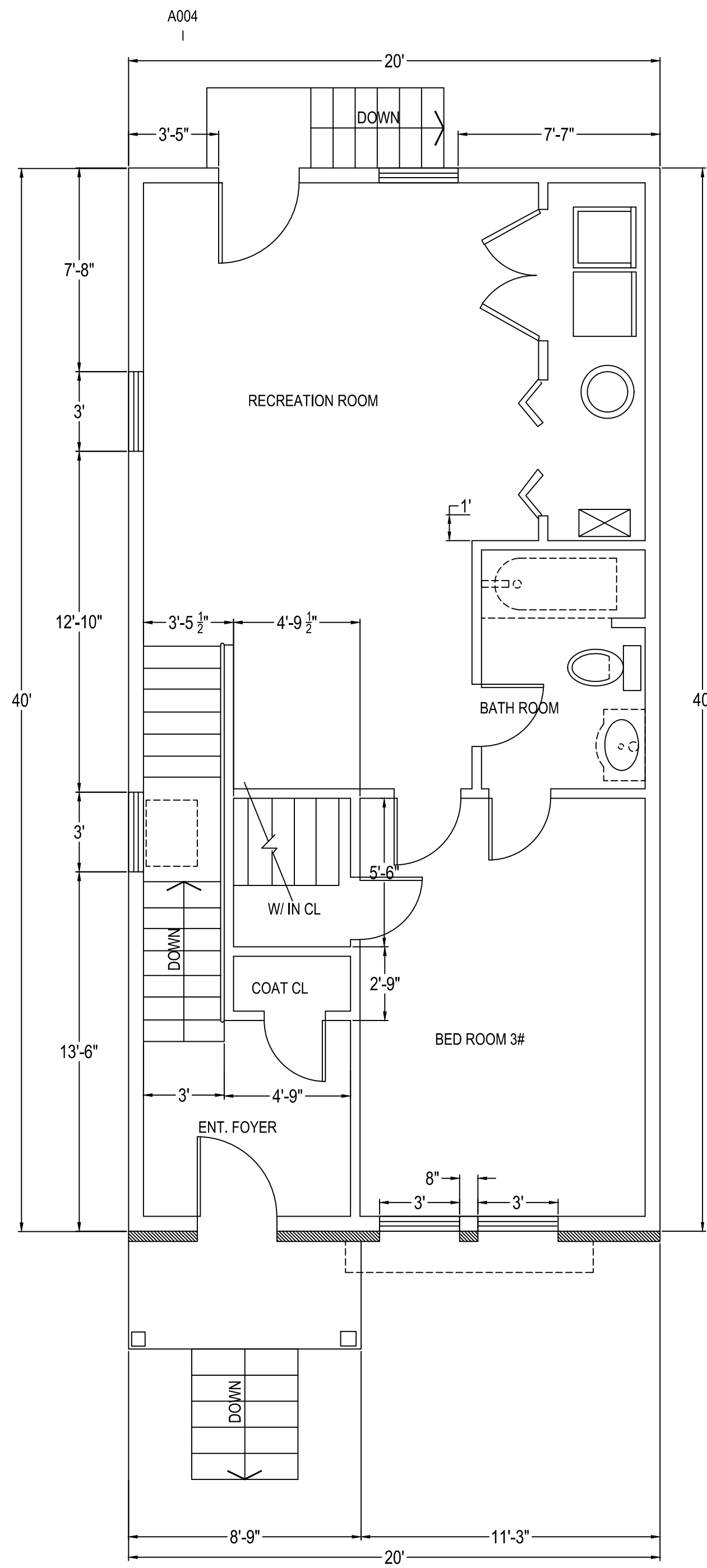
ADS
DESIGN - PERMIT - BUILD
DESIGN BY DEREK SIELEWICZ
1766 Tiger Lily Cir. Woodbridge, VA 22192
Tel: 703-798-4400 d4ads@yahoo.com
ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION.

NEW GARAGE & DECK DESIGN
5035 B Street S.E. Washington, DC 20019
COVER PAGE

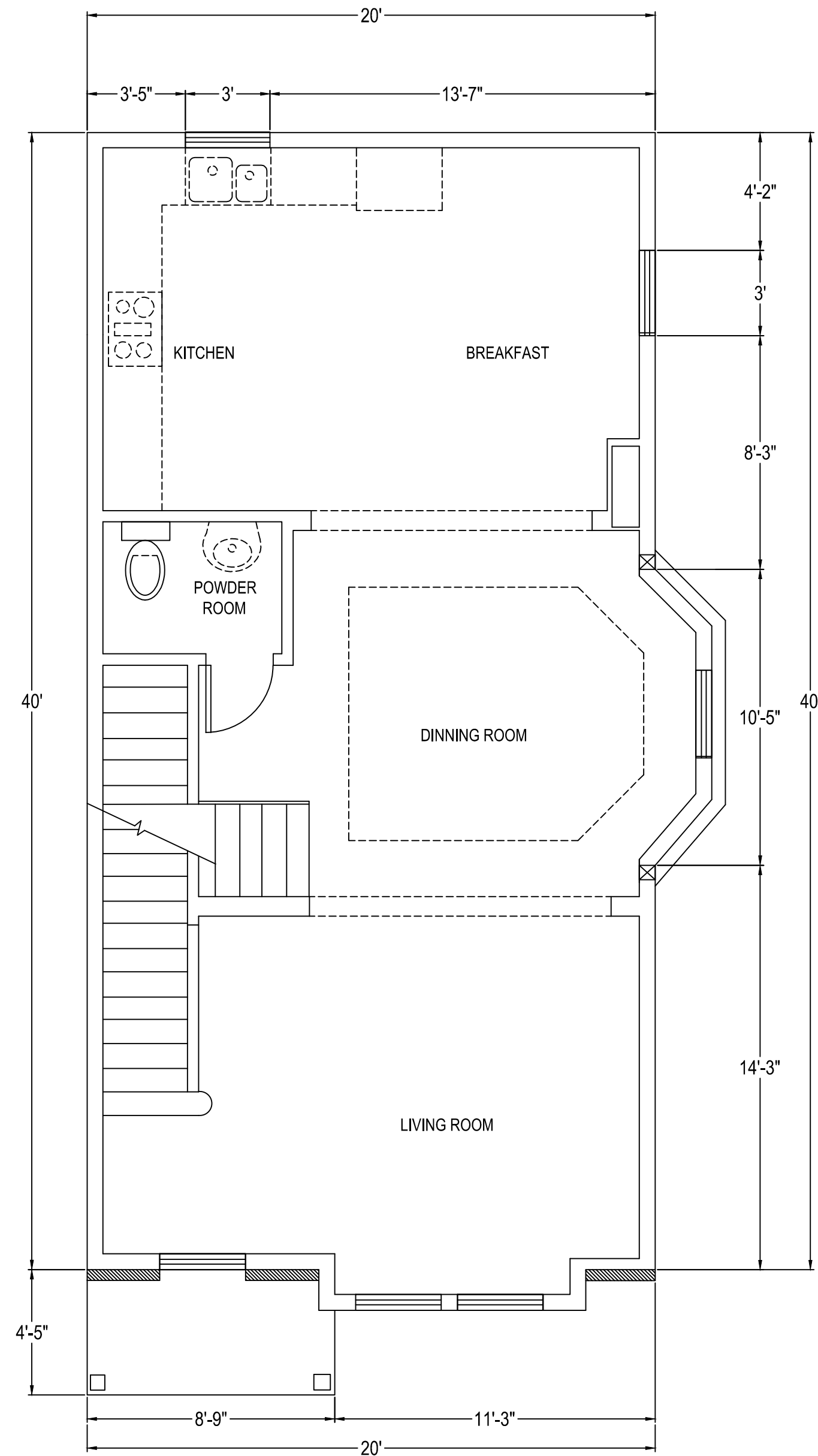
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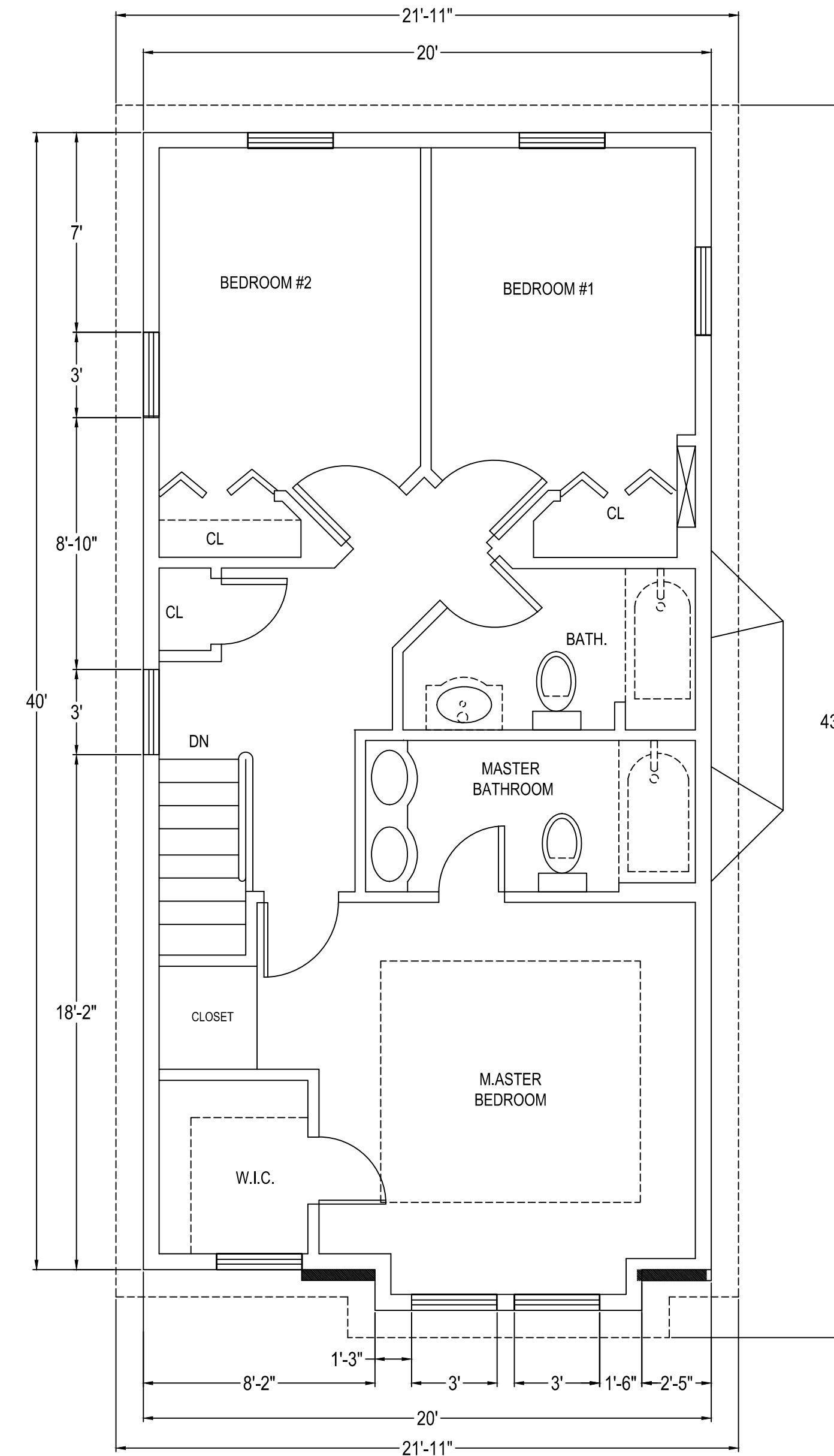
0000
Professional Engineering Adjustment
State of Columbia
CASE NO.19727
EXHIBIT NO.6



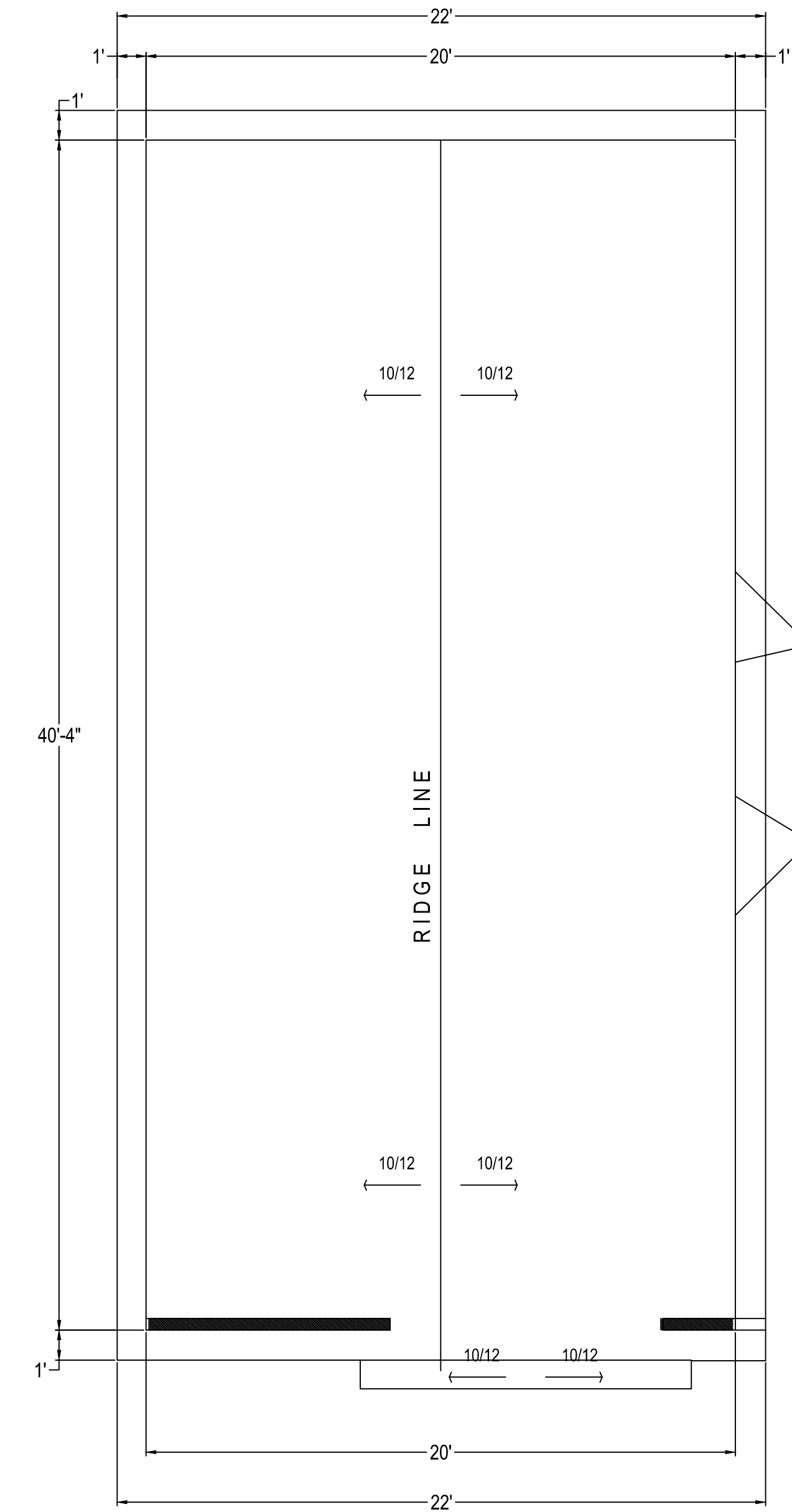
1 **FIRST FLOOR PLAN**
A001 SCALE: 1/4" = 1'-0"



2 **SECOND FLOOR PLAN**
A001 SCALE: 1/4" = 1'-0"



3 **THIRD FLOOR PLAN**
A001 SCALE: 1/4" = 1'-0"



4 **ROOF PLAN**
A001 SCALE: 1/4" = 1'-0"

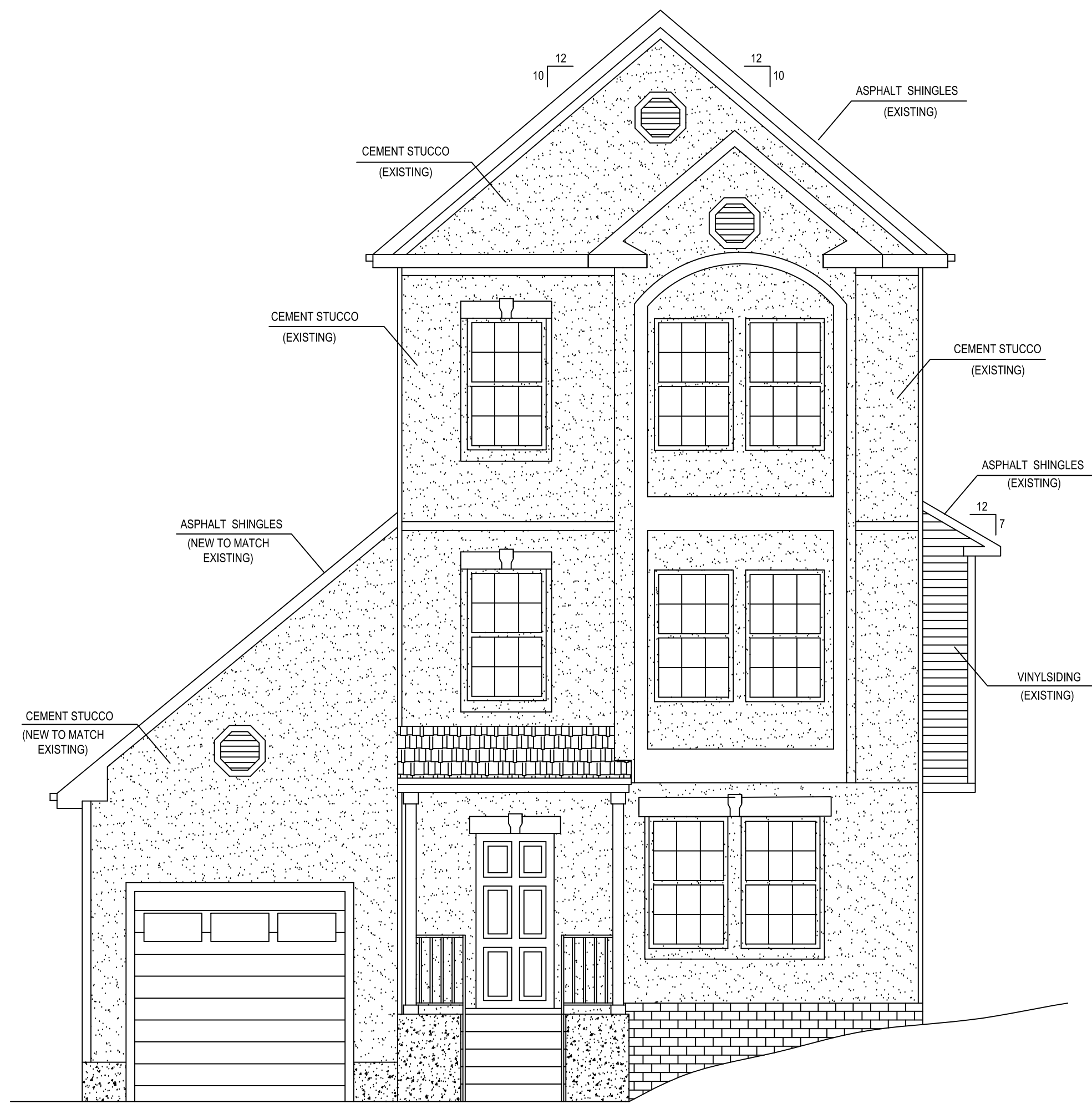
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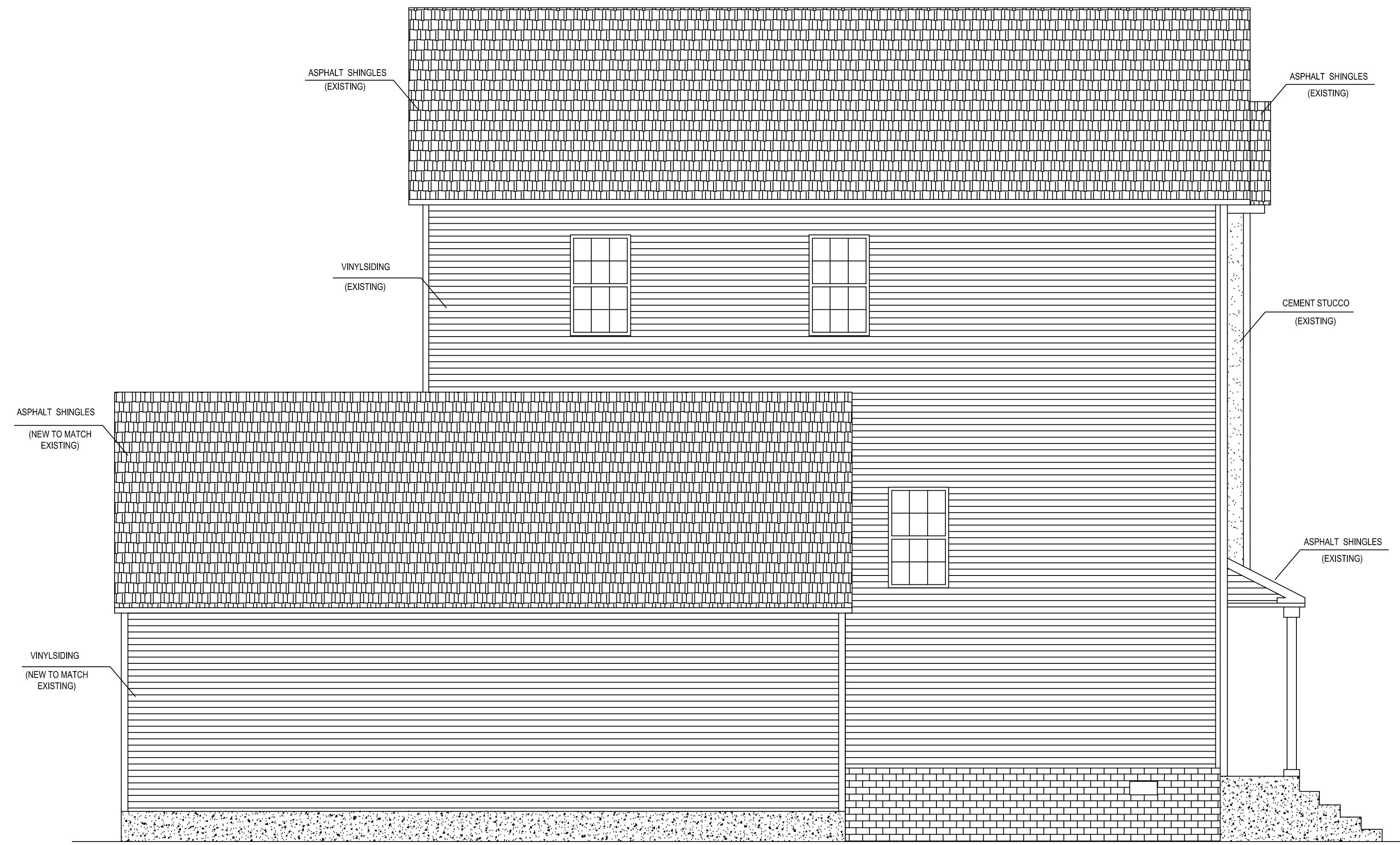
NEW GARAGE & DECK DESIGN
5035 B Street S.E. Washington, DC 20019
EXISTING FLOOR PLANS

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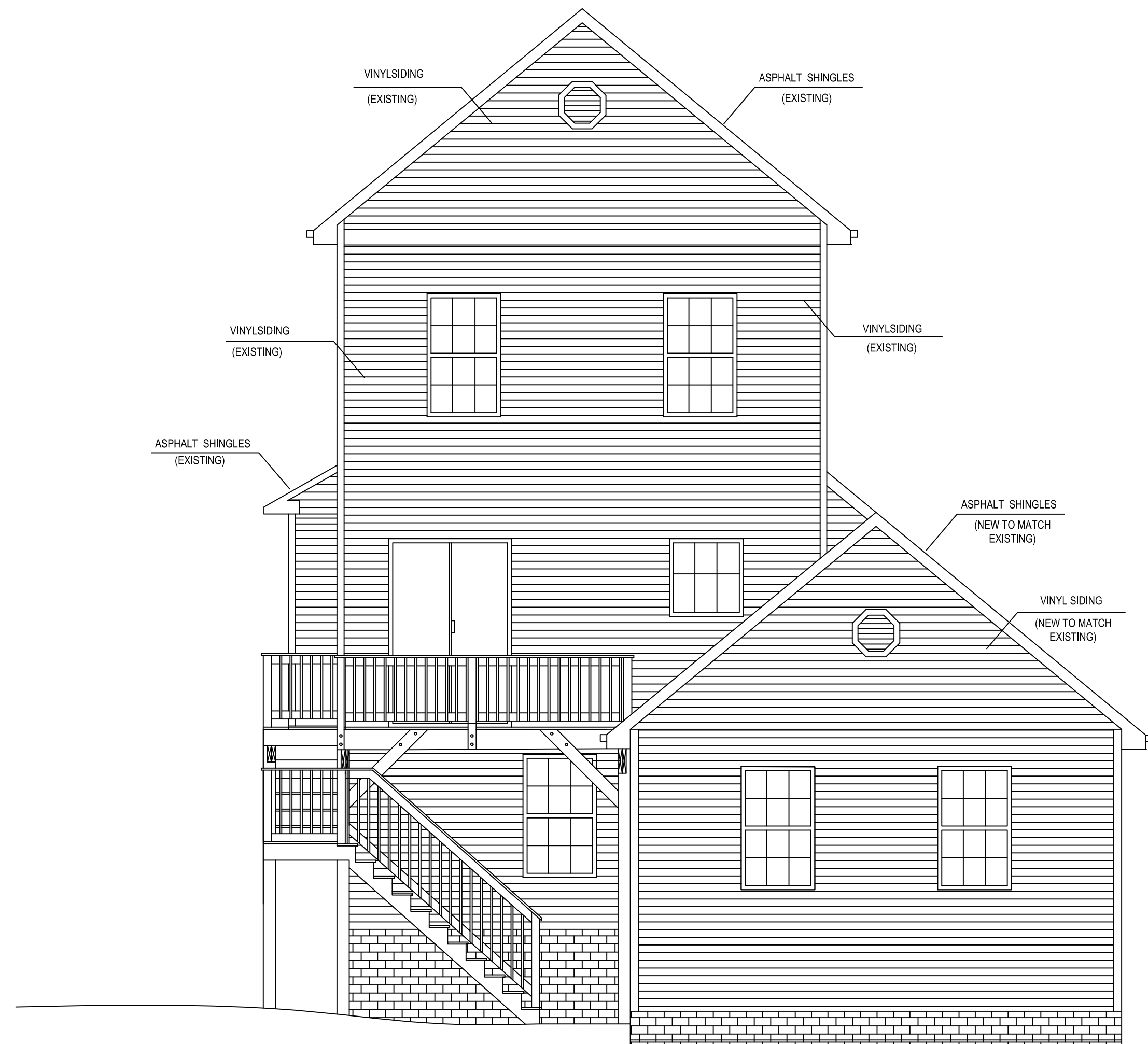
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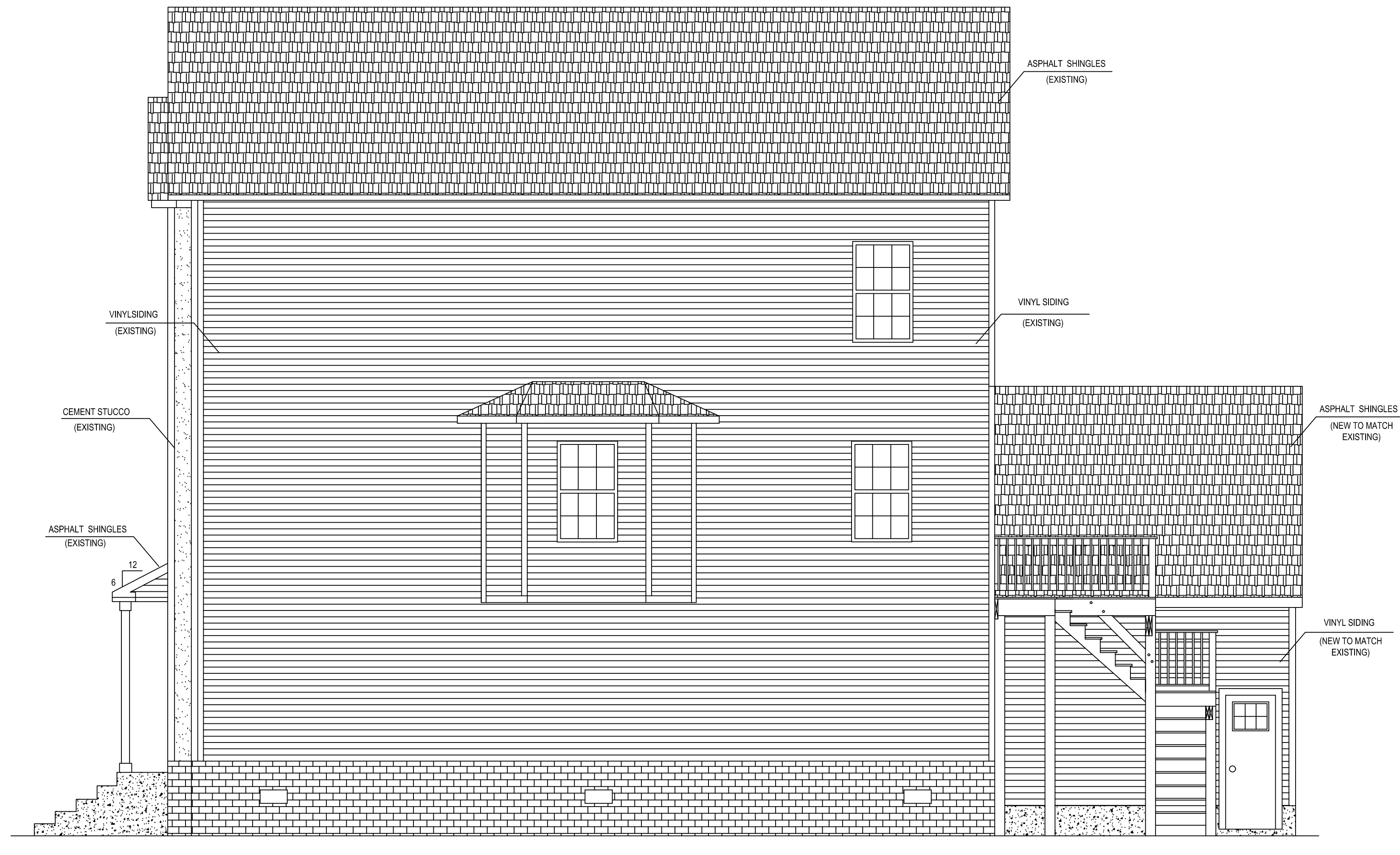
1 FRONT ELEVATION
A003 SCALE: 1/4" = 1'-0"



2 LEFT ELEVATION
A003 SCALE: 1/4" = 1'-0"



4 BACK ELEVATION
A003 SCALE: 1/4" = 1'-0"



3 RIGHT ELEVATION
A003 SCALE: 1/4" = 1'-0"

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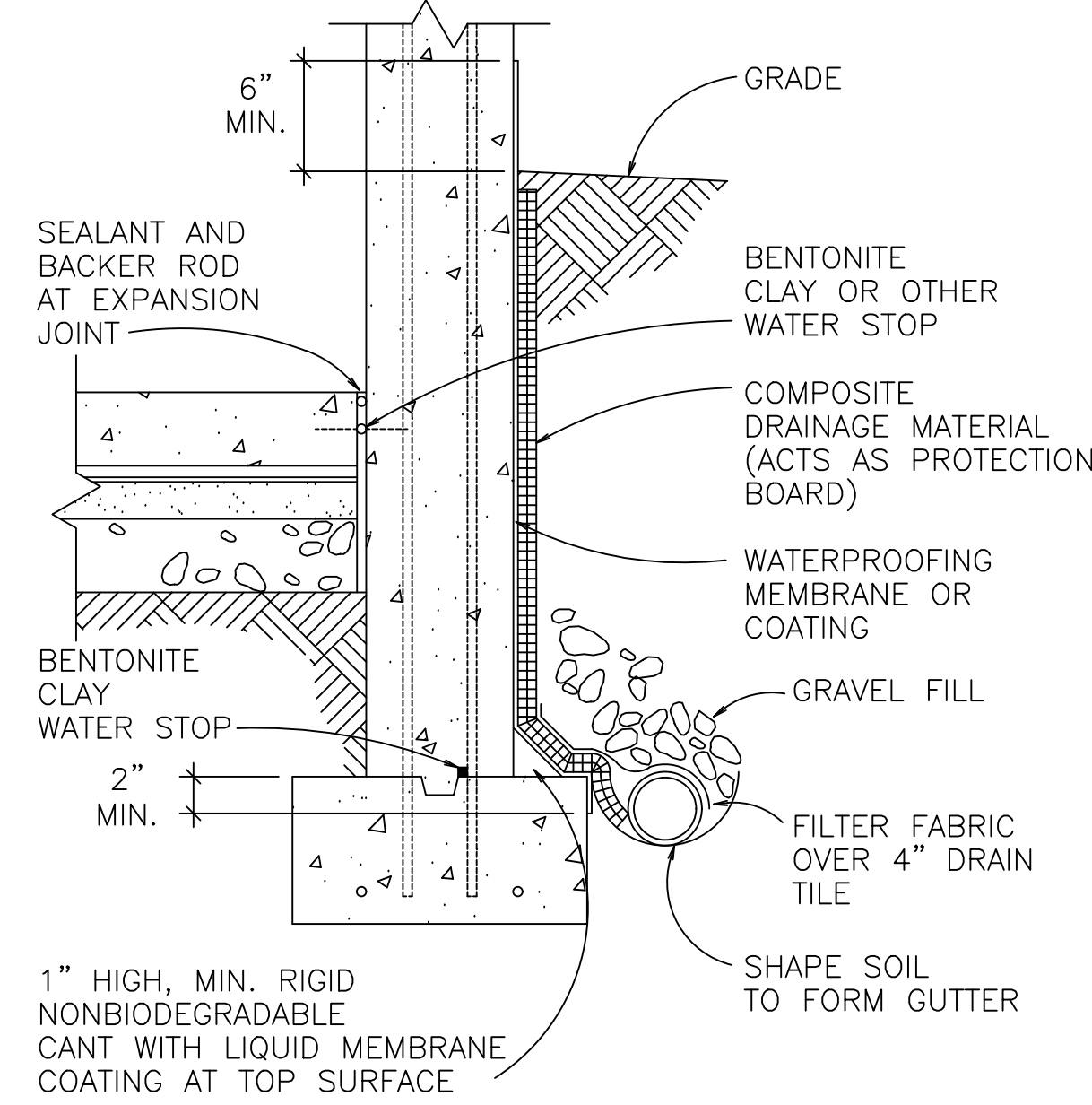
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NEW GARAGE & DECK DESIGN
5035 B Street S.E. Washington, DC 20019
ELEVATIONS

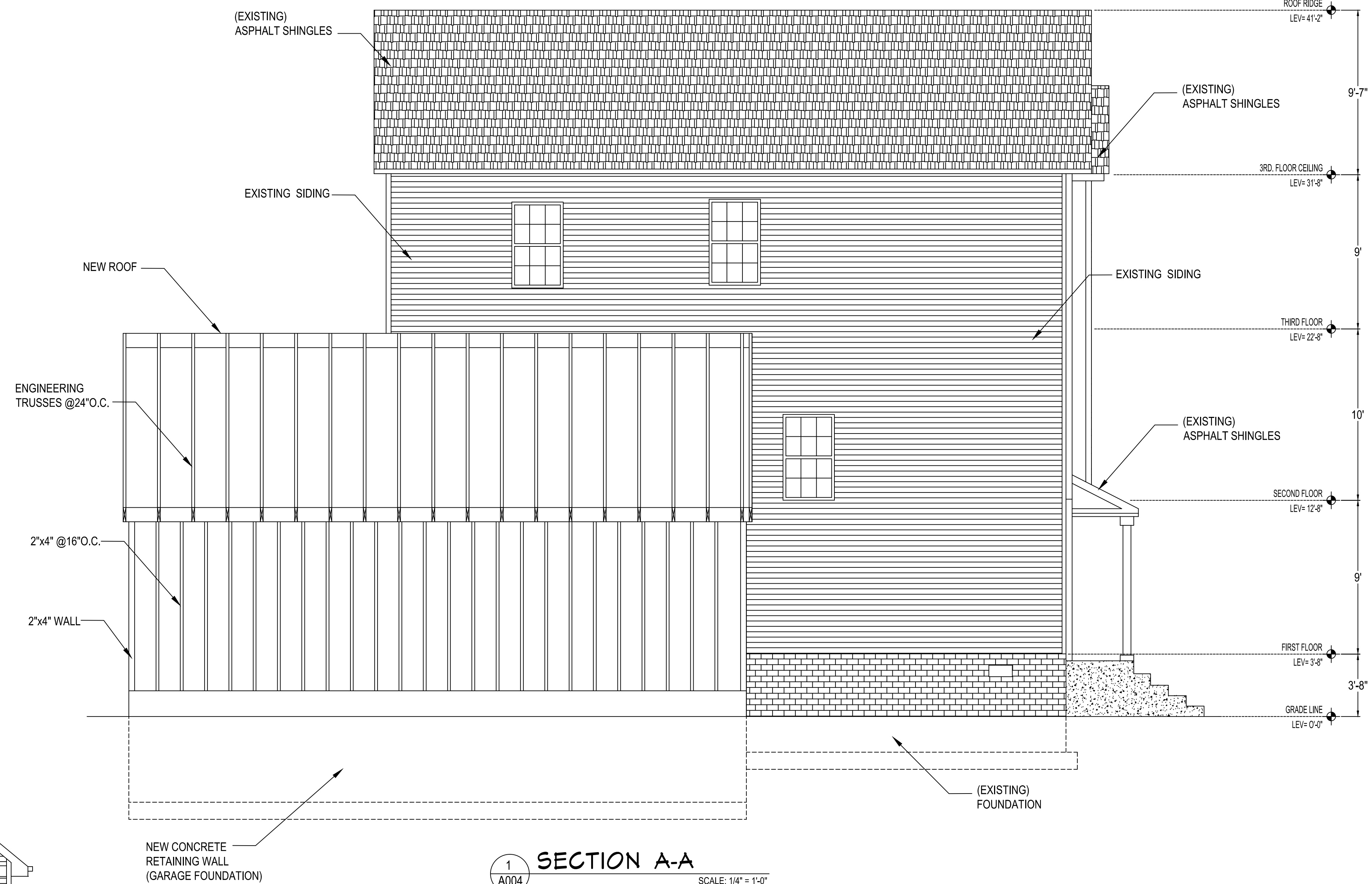
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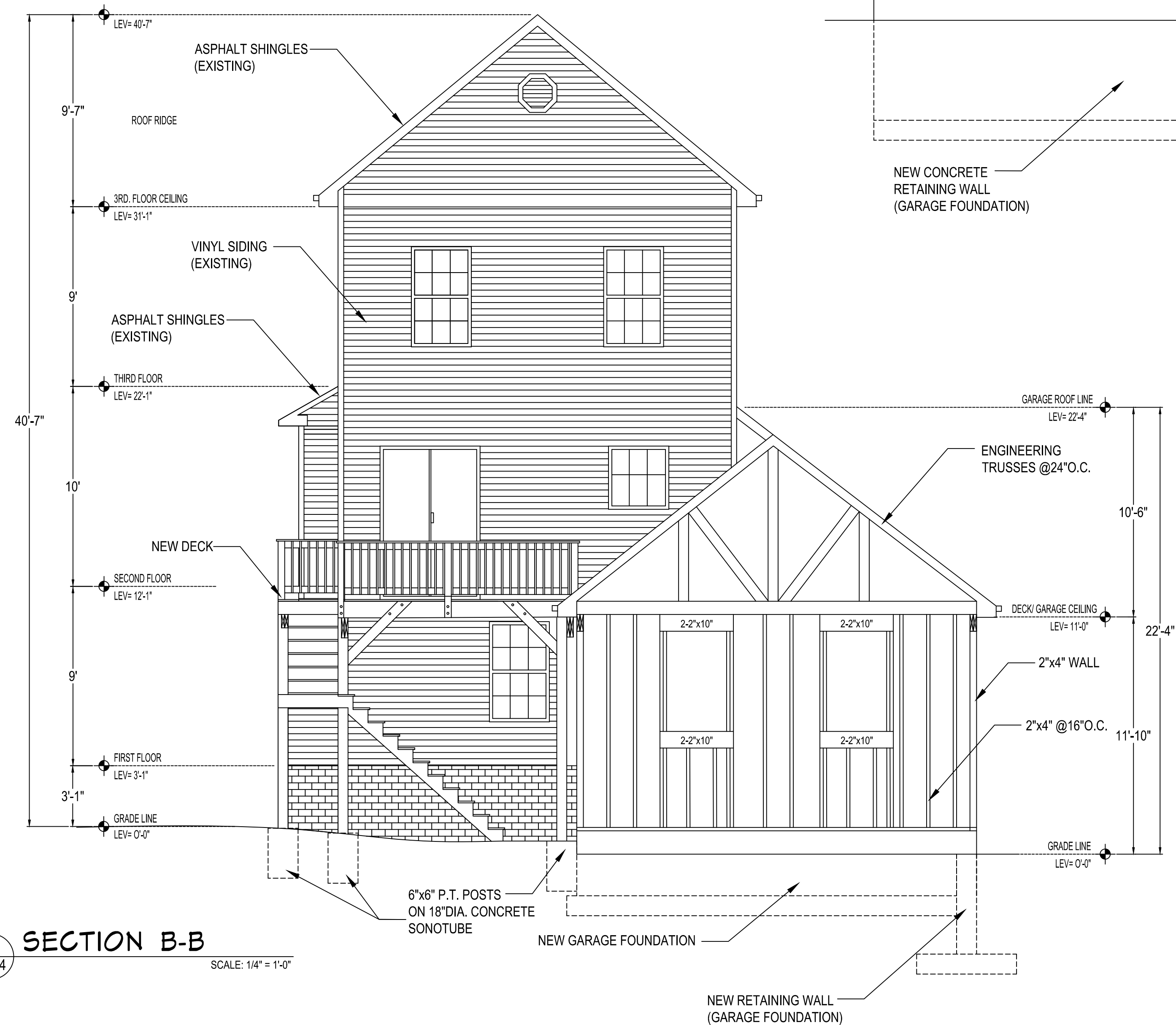
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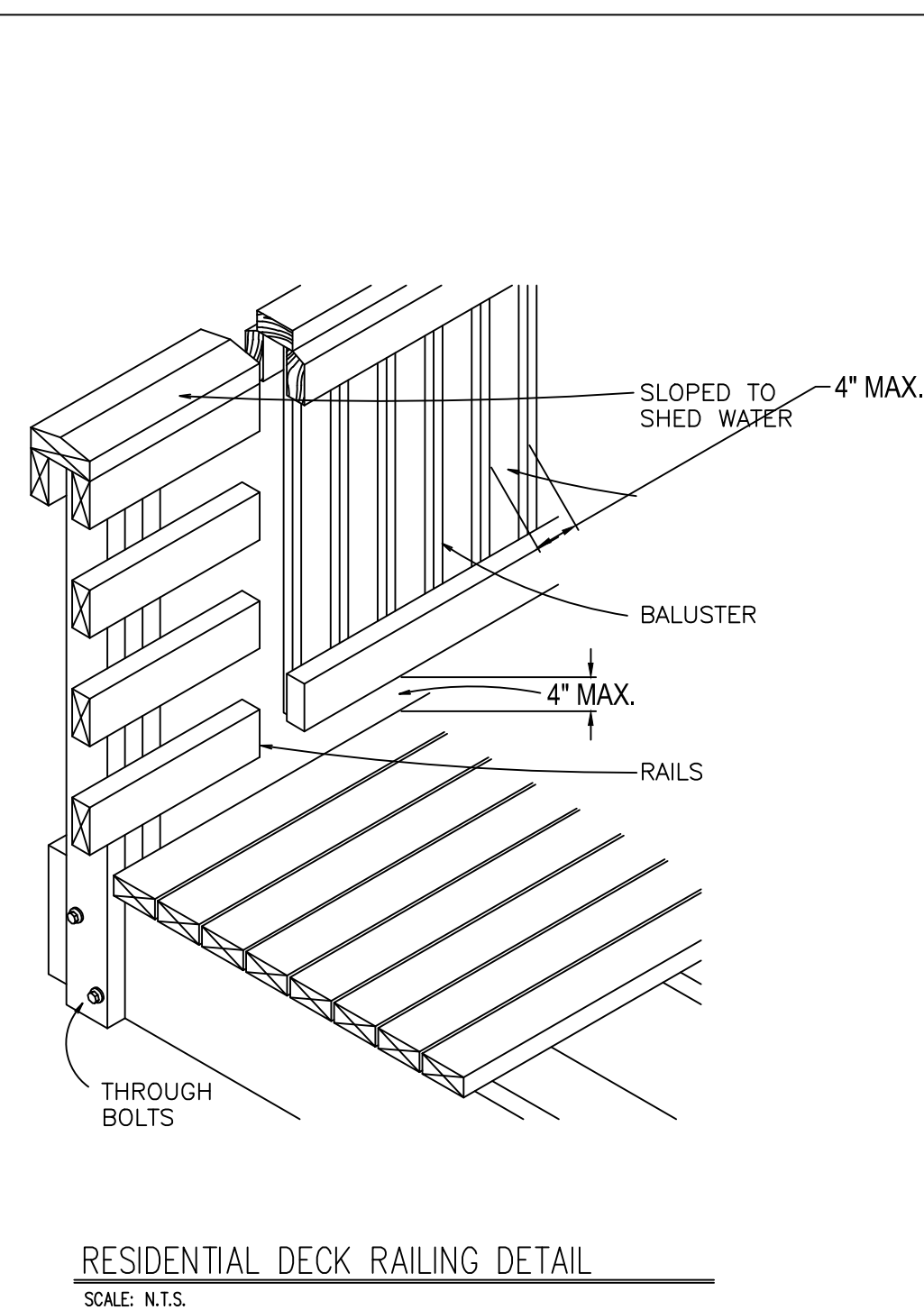
RETAINING WALL DETAIL
SCALE: N.T.S.



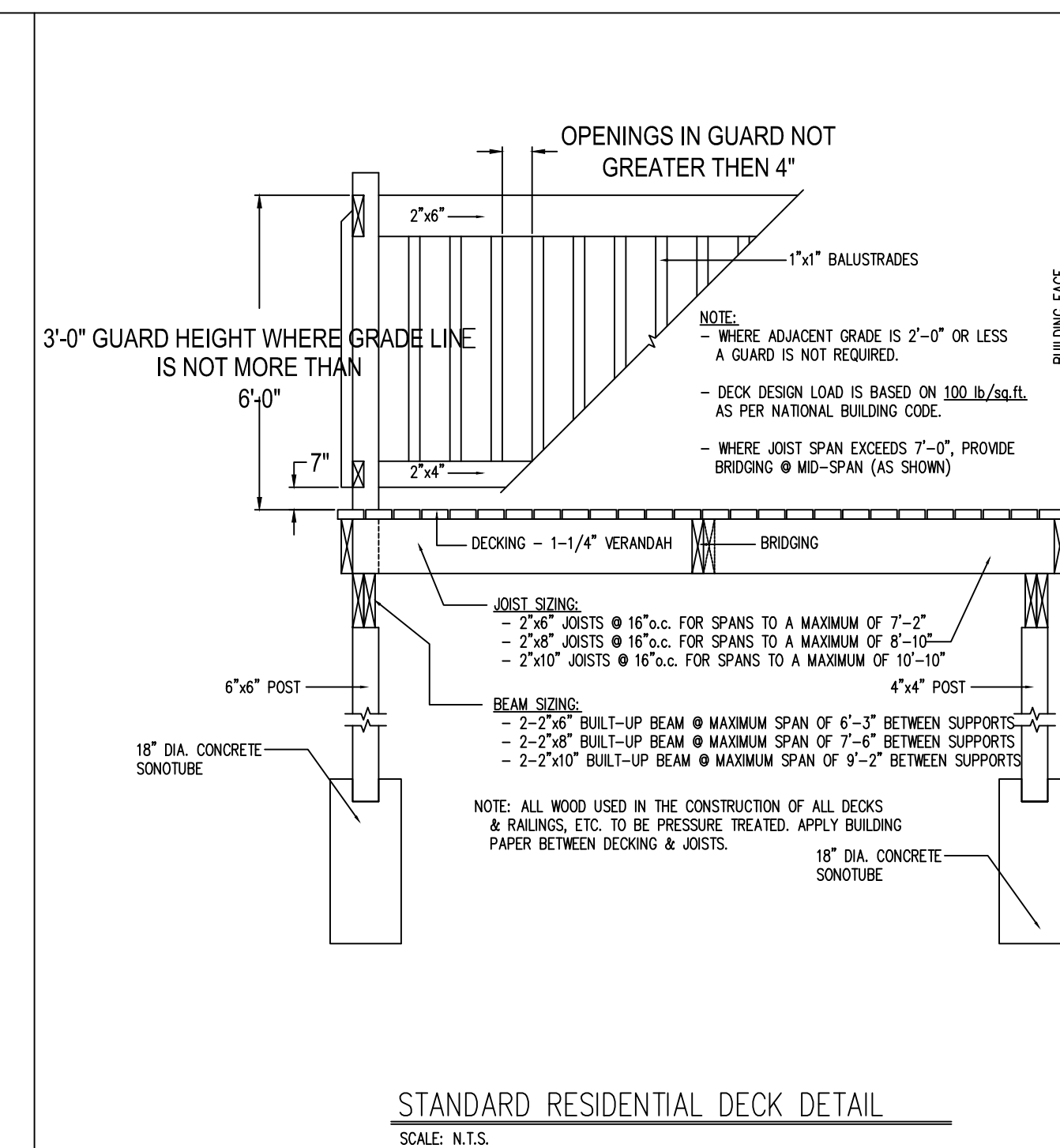
1 SECTION A-A
A004 SCALE: 1/4" = 1'-0"



2 SECTION B-B
A004 SCALE: 1/4" = 1'-0"



RESIDENTIAL DECK RAILING DETAIL
SCALE: N.T.S.



STANDARD RESIDENTIAL DECK DETAIL
SCALE: N.T.S.

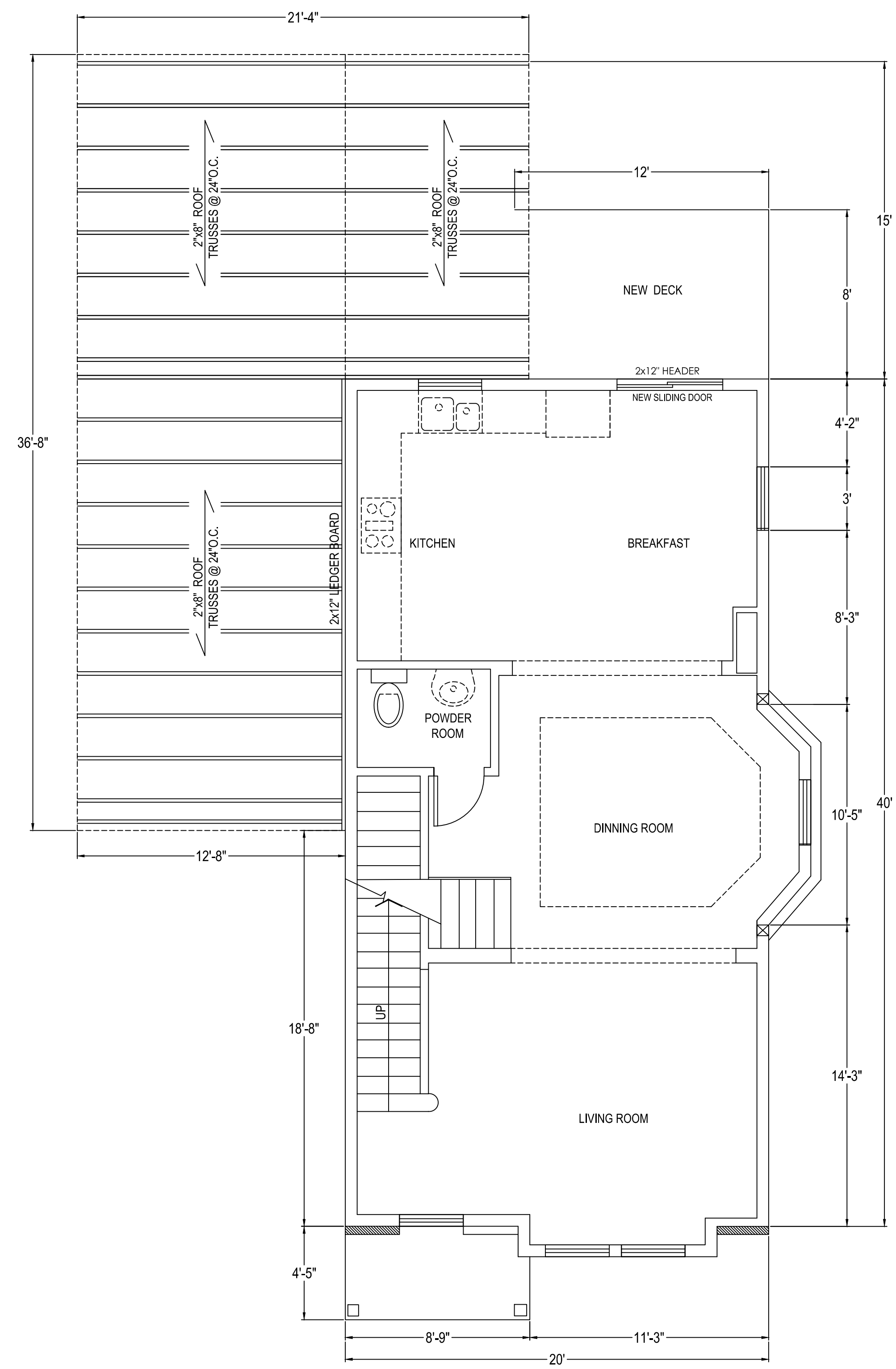
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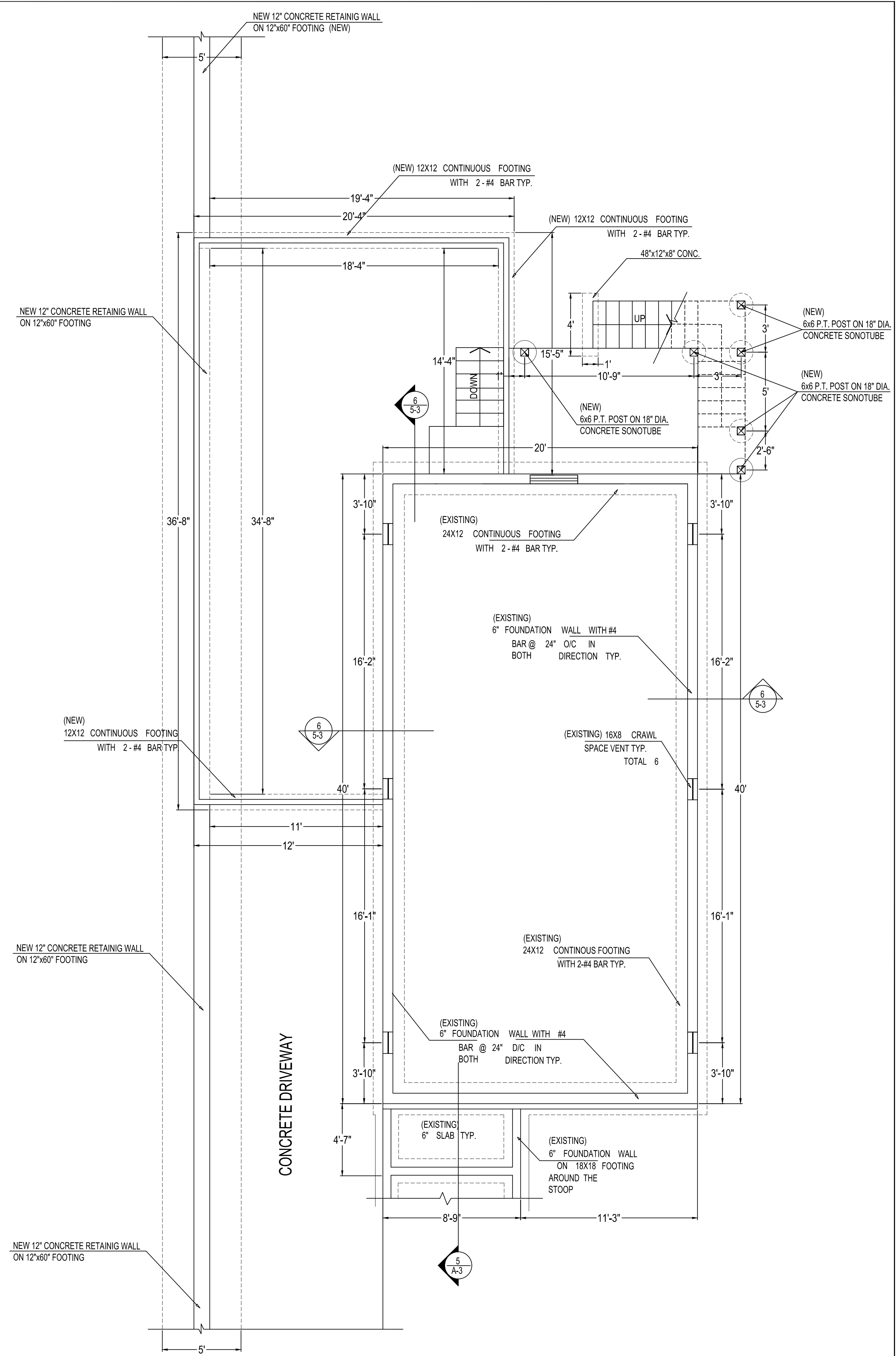
NEW GARAGE & DECK DESIGN
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CROSS - SECTION

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SCALE: FILE:
1/4"=1'-0" 041217
DATE:
01/02/18

A004



2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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

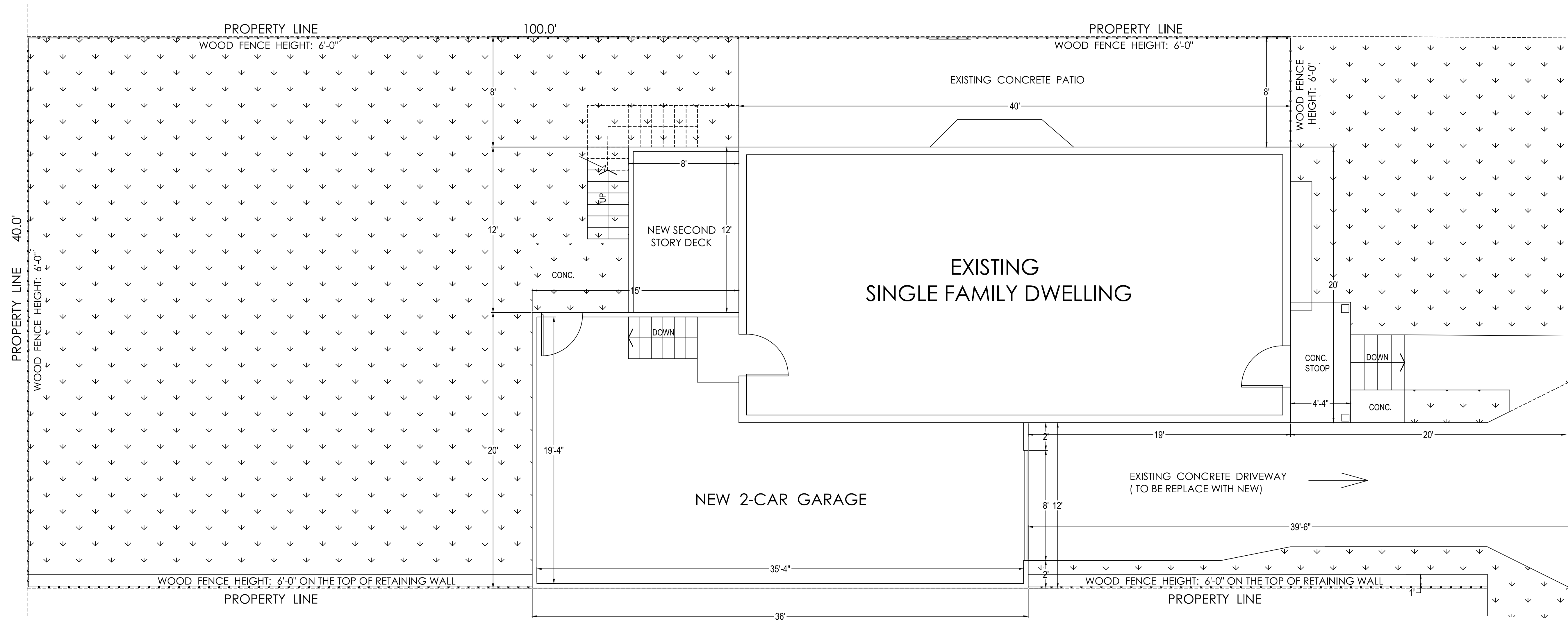
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NEW GARAGE & DECK DESIGN
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FOUNDATION & FRAMING PLAN

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S001



B STREET S.E.

1 SITE PLAN
D001 SCALE: 1/4" = 1'-0"

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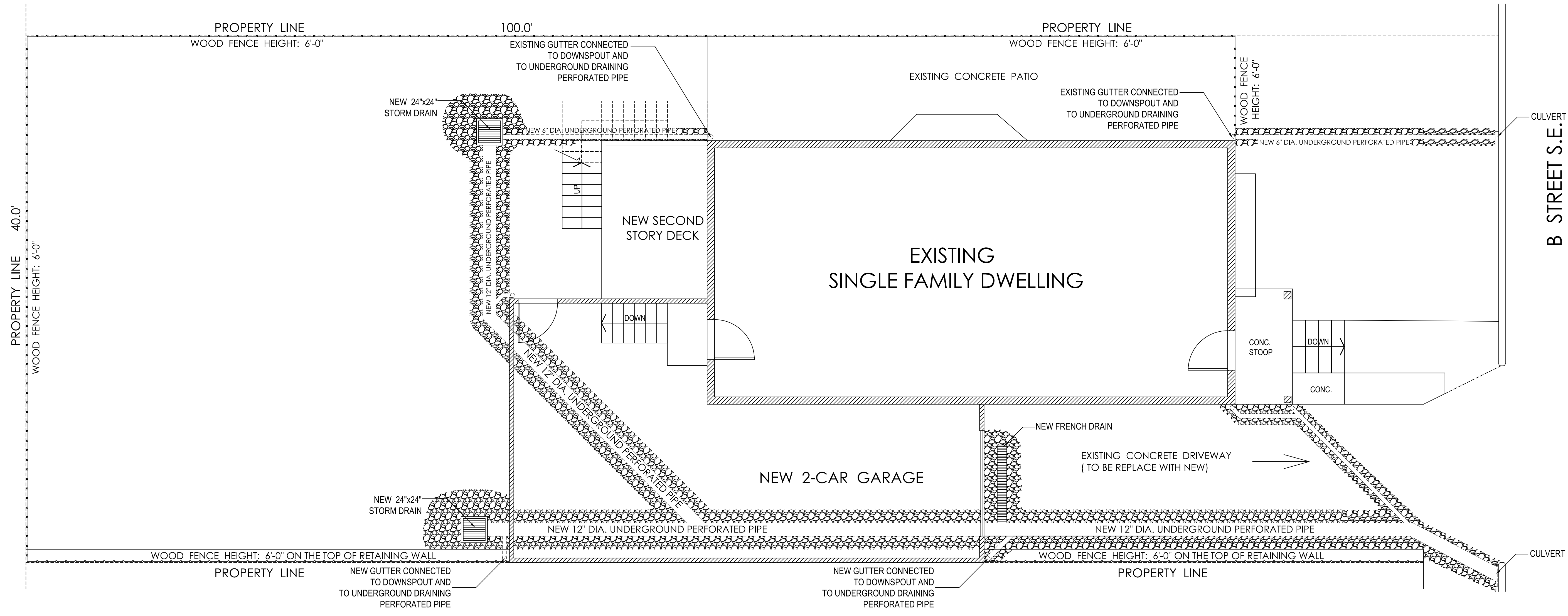
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NEW GARAGE & DECK DESIGN
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SITE PLAN

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SCALE:	FILE:
1/4"=1'-0"	041217
DATE:	
01/02/18	

D001



1 DRAINAGE PLAN
 D002 SCALE: 1/4" = 1'-0"

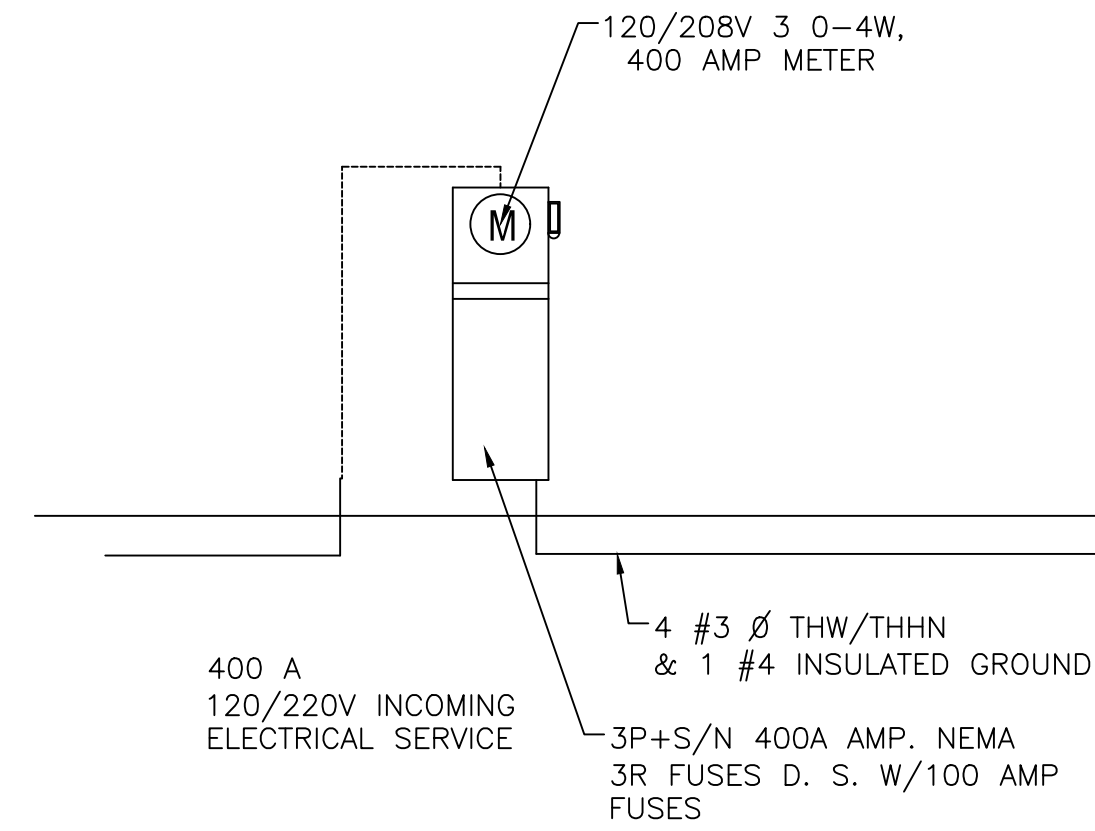
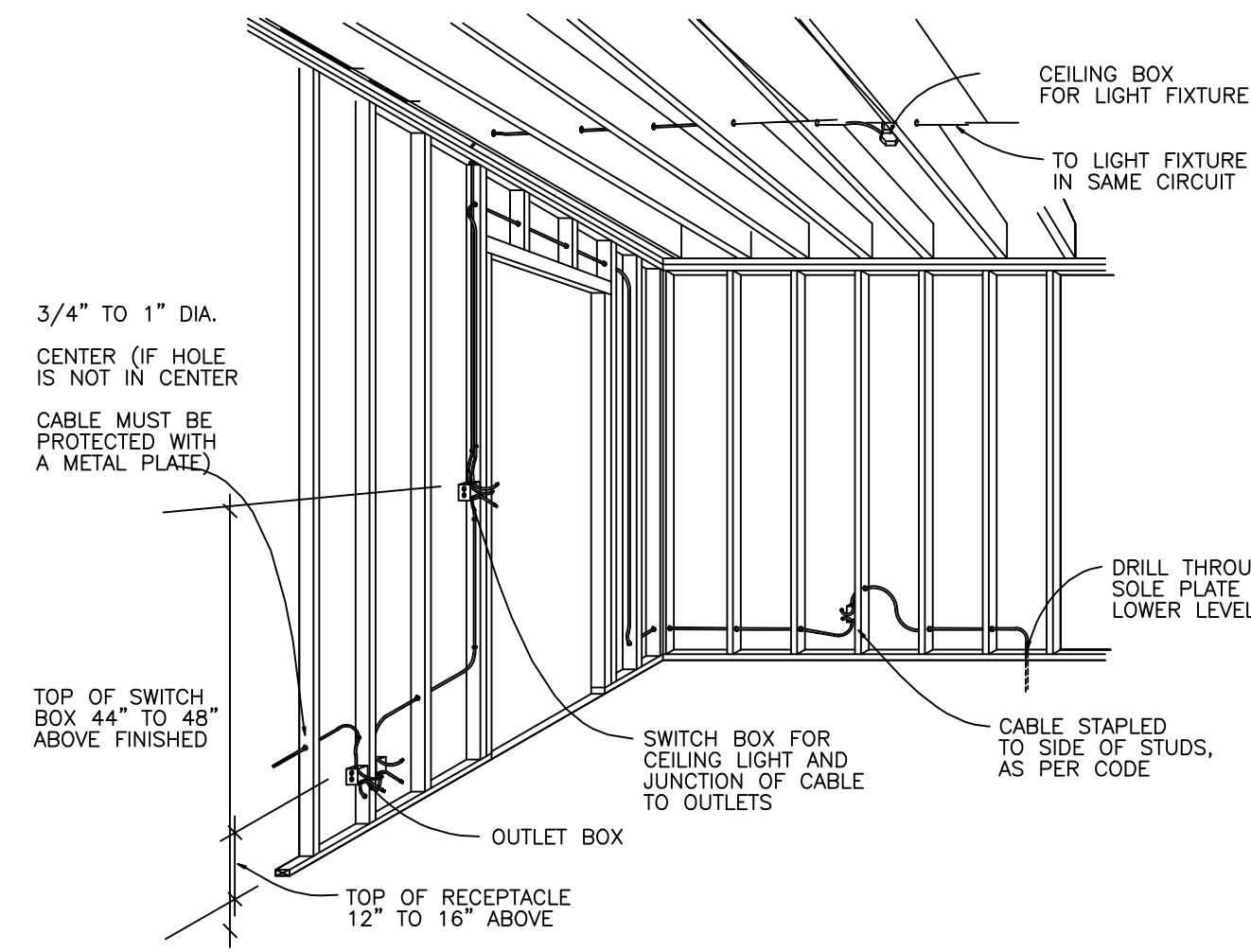
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NEW GARAGE & DECK DESIGN
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 DRAINAGE PLAN

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SCALE:	FILE:
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DATE:	
01/02/18	

D002

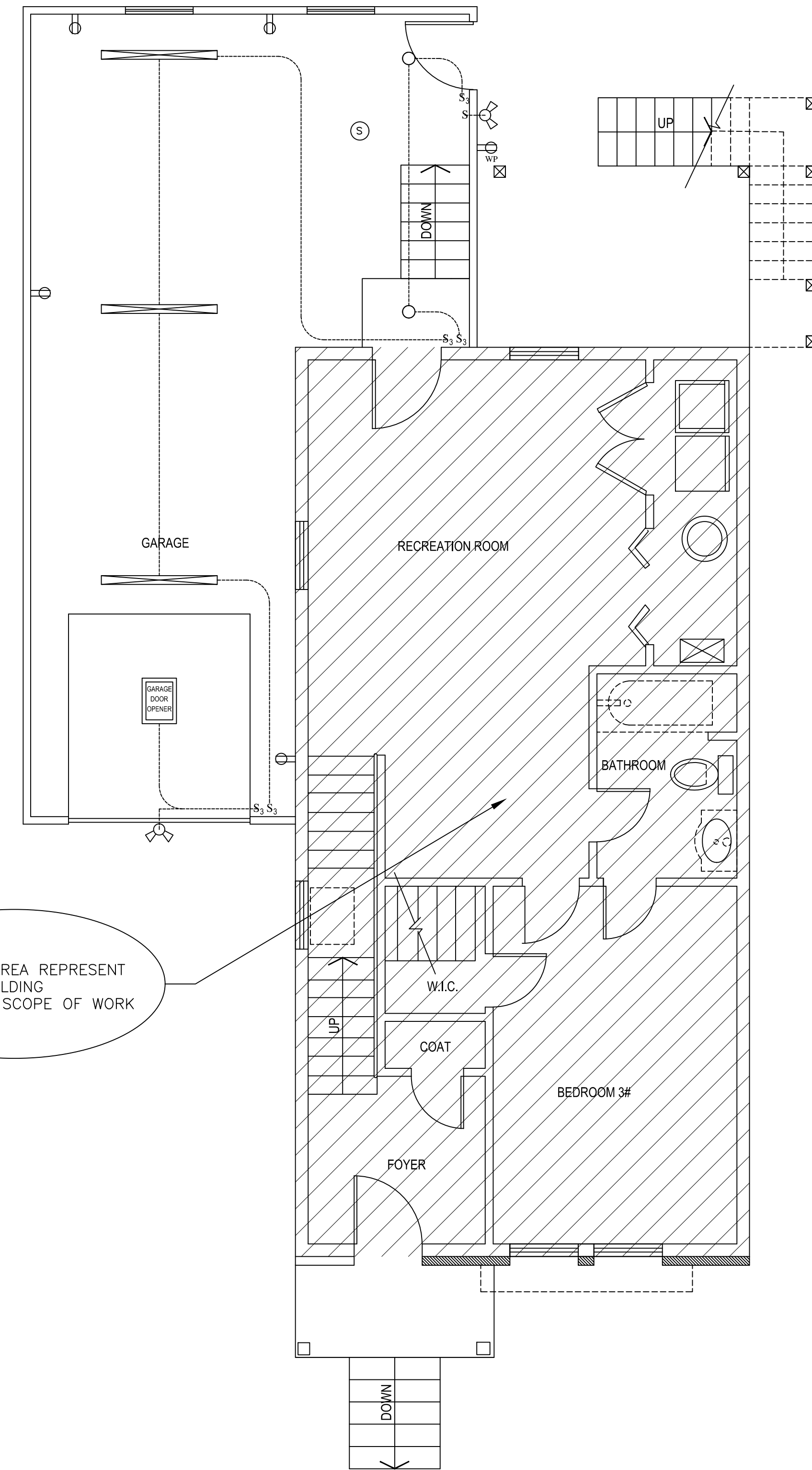


POWER RISER DIAGRAM
N.T.S.

NOTES:

- SCOPE OF WORK IS LIMITED TO NEW GARAGE AREA ONLY. INSTALLATION OF NEW OUTLETS, SWITCHES, LIGHTING FIXTURES AND GARAGE DOOR OPENER.
- NO CHANGE TO EXISTING HOUSE
- ALL OF PERMANENT FIXTURES USE HIGH EFFICIENT LED BULBS.
- ALL OF INSTALLED SMOKE DETECTORS ARE HARDWIRED WITH BATTERY BACK-UP.
- AFCI RECEPTACLES ARE PROVIDED IN ALL HABITABLE SPACES.
- MANUFACTURERS SPECS FOR RECESSED LIGHTING ABOVE EACH LANDING: 785 LUMENS, 160 DEG BEAM ANGLE, 3000 COLOR.
- EXISTING ELECTRICAL PANEL TO REMAIN.

ELECTRICAL LEGEND...	
SYMBOL	DESCRIPTION
⊕	110 OUTLET
⊕ WP	110 OUTLET WATER PROOF CIRCUIT
⊕ GF	110 OUTLET GROUND FAULT
⊕ (N)	NEW OUTLET
s	LIGHT SWITCH
s'	LIGHT SWITCH THREE WAY
⊙	SMOKE DETECTOR
▭	POWER PANEL
○	LIGHT FIXTURE CLG. MT.
○	LIGHT FIXTURE RECESSED CAN
▭	CEILING MOUNTED LIGHT



"HATCHED" AREA REPRESENT EXISTING BUILDING NOT IN THE SCOPE OF WORK

1
E001 **ELECTRICAL PLAN**
FIRST FLOOR SCALE: 1/4" = 1'-0"

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NEW GARAGE & DECK DESIGN
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ELECTRICAL PLAN

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SCALE: 1/4"=1'-0" FILE: 041217
DATE: 01/02/18

E001

19.0 STANDARDS AND SPECIFICATIONS
FOR
LAND GRADING

Definition

Reshaping of the existing land surface in accordance with a plan as determined by engineering survey and layout.

Purpose

The purpose of a land grading specification is to provide for erosion control and vegetative establishment on those areas where the existing land surface is to be reshaped by grading according to plan.

Design Criteria

The grading plan should be based upon the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surroundings to avoid extreme grade modifications. Information submitted must provide sufficient topographic surveys and soil investigations to determine limitations that must be imposed on the grading operation related to slope stability, effect on adjacent properties and drainage patterns, measures for drainage and water removal and vegetative treatment, etc.

Many counties have regulations and design procedures already established for land grading and cut and fill slopes. Where these requirements exist, they shall be followed. The plan must show existing and proposed contours of the area(s) to be graded. The plan shall also include practices for erosion control, slope stabilization, safe disposal of runoff water and drainage, such as waterways, lined ditches, reverse slope benches (include grade and cross section), grade stabilization structures, retaining walls, and surface and subsurface drains. The plan shall also include phasing of these practices. The following shall be incorporated into the plan:

- Provisions shall be made to safely conduct surface runoff to storm drains, protected outlets or to stable water courses to insure that surface runoff will not damage slopes or other graded areas.
- Cut and fill slopes that are to be stabilized with grasses shall not be steeper than 2:1. (Where the slope is to be mowed the slope should be no steeper than 3:1; 4:1 is preferred because of safety factors related to mowing steep slopes) Slopes exceeding 2:1 shall require special design and stabilization considerations that shall be adequately shown on the plans.
- Reverse benches shall be provided whenever the vertical interval (height) of any 2:1 slope exceeds 20 feet; for 3:1 slope it shall be increased to 30 feet and for 4:1 to 40 feet. Benches shall be located to divide the slope face as equally as possible and shall convey the water to a stable outlet. Soils, seeps, rock outcrops , etc., shall also be taken into consideration when designing benches.
 - Benches shall be a minimum of six-feet wide to provide for ease of maintenance
 - Benches shall be designed with a reverse slope of 6:1 or flatter to the toe of the upper slope and with a minimum of one foot in depth. Bench gradient to the outlet shall be between 2 percent and 3 percent, unless accompanied by appropriate design and computations
 - The flow length within a bench shall not exceed 800' unless accompanied by appropriate design and computations. For flow channel stabilization see temporary swales
- Surface water shall be diverted from the face of all cut and/or fill slopes by the use of earth ditches and swales or conveyed downstream by the use of a designed structure, except where:
 - The face of the slope is or shall be stabilized and the face of all graded slopes shall be protected from surface runoff until they are stabilized.
 - The face of the slope shall not be subject to any concentrated flows of surface water such as from natural drainageways, graded swales, ditches, etc.
 - The face of the slope will be protected by special erosion control materials, to include, but not limited to: approved vegetative stabilization practices (see section G), rip-rap or other approved stabilization methods.
- Cut slopes occurring in ripable rock shall be serrated as shown on the following diagram. These serrations shall be made with conventional equipment as the excavation is made. Each step or serration shall be constructed on the contour and will have steps cut at nominal two-foot intervals with nominal three-foot horizontal shelves. These steps will vary depending on the slope ratio or the cut slope. The nominal slope line is 1:1. These steps will weather and act to hold moisture, lime, fertilizer and seed thus producing a much quicker and longer lived vegetative cover and better slope stabilization. Overland flow shall be diverted from the top of all serrated cut slopes and carried to a suitable outlet.
- Subsurface drainage shall be provided where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.
- Slopes shall not be created so close to property lines as to endanger adjoining properties without adequately protecting such properties against sedimentation, erosion, slippage, settlement, subsidence or other related damages.
- Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. It should be free of stones over two (2) inches in diameter where compacted by hand or mechanical tampers or over eight (8) inches in diameter where compacted by rollers or other equipment. Frozen material shall not be placed in the fill nor shall the fill material be placed on a frozen foundation.
- Stockpiles, borrow areas and spoil shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.
- All disturbed areas shall be stabilized structurally or vegetatively in compliance with 20.0 Standards and Specifications for Vegetative Stabilization.

DETAIL 22 SILT FENCE		
SILT FENCE DESIGN CRITERIA		
SLOPE STEEPNESS	MAX. SLOPE LENGTH	MAX. SILT FENCE LENGTH
FLATTER THAN 50:1	UNLIMITED	UNLIMITED
50:1 TO 10:1	125 FEET	1,000 FEET
10:1 TO 5:1	100 FEET	750 FEET
5:1 TO 3:1	60 FEET	500 FEET
3:1 TO 2:1	40 FEET	250 FEET
2:1 AND STEEPER	20 FEET	125 FEET

NOTE:
IN AREAS OF LESS THAN 2% SLOPE SANDY SOIL (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.

SEQUENCE OF CONSTRUCTION

- APPLICANT SHOULD SET UP A PRE-CONSTRUCTION MEETING WITH THE DISTRICT OF COLUMBIA HEALTH DEPARTMENT PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- NOTIFY "MISS UTILITY" AT LEAST 48 HOURS IN ADVANCE BEFORE BEGINNING CONSTRUCTION.
- INSTALL ALL SEDIMENT CONTROL DEVICES. BEGIN WORK AFTER OBTAINING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR.
- AFTER COMPLETION OF SITE WORK, STABILIZE SITE.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

21.0 STANDARD AND SPECIFICATIONS
FOR
TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

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.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - 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.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that 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-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications – Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 2% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutseeds, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 44 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

For sites having disturbed areas under \$ acres:

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization – Section 1 – Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days mm.) to permit dissipation of phytotoxic materials.

For sites having disturbed areas over 5 acres:

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization – Section 1 – Vegetative Stabilization Methods and Materials.
- Topsoil Application
 - When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins--
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" – 8" higher in elevation.
 - Topsoil shall be uniformly distributed in a 4" – 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil shall not be placed while 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 seedbed preparation.

Note: 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.

Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below.

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

EROSION AND SEDIMENT CONTROL

STANDARD AND SPECIFICATION FOR DUST CONTROL

- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
- FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.
 - DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
 - LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
 - APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.

VEGETATIVE STABILIZATION

PERMANENT AND TEMPORARY SEEDING, SODDING AND MULCHING

I. SITE PREPARATION

PERMANENT OR TEMPORARY VEGETATION SHALL BE ESTABLISHED WITHIN SEVEN (7) DAYS ON THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, SEDIMENT CONTROL BASINS, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND WITHIN 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. MULCHING MAY ONLY BE USED ON DISTURBED AREAS AS TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING CANNOT BE COMPLETED BECAUSE OF WEATHER.

II. SEEDBED PREPARATION AND SEEDING APPLICATION

LOOSEN THE TOP LAYER OF THE SOIL TO A DEPTH OF AGRICULTURAL OR CONSTRUCTION EQUIPMENT SUCH AS DISC HARROWS, CHISEL PLOWS OR RIPPER MOUNTED ON CONSTRUCTION EQUIPMENT. INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF THE SOIL BY DISCING OR BY OTHER SUITABLE MEANS. ROUGH AREAS SHOULD NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN A ROUGHENED CONDITION. STEEP SLOPES GREATER THAN 3:1 SHOULD BE TRACKED BY A DOZER, LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1 TO 3 INCHES OF SOIL SHOULD BE LOOSE AND FRABLE. PERMANENT COVER MAY REQUIRE AN APPLICATION OF TOPSOIL. IF SO, IT MUST MEET THE REQUIREMENTS SET FORTH IN SECTION 21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL FROM THE 1994 STANDARDS AND SPECIFICATIONS.

III. SOIL AMENDMENTS

SOIL TESTS SHALL BE MADE ON SITES OVER FIVE ACRES TO DETERMINE THE EXACT REQUIREMENTS FOR BOTH LIME AND FERTILIZER. FOR SITES UNDER 5 ACRES, IN LIEU OF A SOIL TEST, APPLY THE FOLLOWING:

FERTILIZER NITROGEN 2lbs/1000 s.f. (90 lbs/ac)
P2O5 4lbs/1000 s.f. (175 lbs/ac)
K2O 4lbs/1000 s.f. (175 lbs/ac)

FOR LOW MAINTENANCE AREAS APPLY 150 lbs/ac UREAFORM FERTILIZER (38--0--0) AT 3.5 lbs/1000 sq. ft. IN ADDITION TO THE ABOVE FERTILIZER AT THE TIME OF SEEDING.

GROUND LIMESTONE 2 TONS/AC

IV. SEDIMENT CONTROL PRACTICE SEEDING

SELECT A SEEDING MIXTURE FROM TABLES 25 OR 26 IN SECTION C OF THE 1994 STANDARDS AND SPECIFICATIONS. DOCUMENT SEEDING ON THE EROSION AND SEDIMENT CONTROL PLAN USING APPROPRIATE CHART BELOW. NOTE: IF SEDIMENT CONTROL PRACTICES ARE IN FOR LONGER THAN 12 MONTHS, PERMANENT SEEDING IS REQUIRED.

V. TEMPORARY/PERMANENT SEEDING MIXTURES AND RATES

SELECT A SEEDING MIXTURE FROM APPROPRIATE TABLE 25 OR 26 IN SECTION C OF THE 1994 STANDARDS AND SPECIFICATIONS. DOCUMENT SEEDING ON THE EROSION AND SEDIMENT CONTROL PLAN USING APPROPRIATE CHART BELOW.

TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7a) (FROM TABLE 26)					FERTILIZER RATE (10-10-10)	LIME RATE (100 lb/1000 st)
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS		
1	BARLEY OR RYE PLUS FOXTAIL MILLET	150	2/1-10/15 2/1-1/30	1"		
2	ANNUAL RYEGRASS	50	2/1-4/30 8/15-1/11	1/4"-1/2"	600 lb/ac (15 lb/1000 st)	2 tons/ac (100 lb/1000 st)
3	WEEPING LOVEGRASS	4	5/1-8/14	1/4"-1/2"		

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 7a) (FROM TABLE 25)				FERTILIZER RATE (10-20-20)			LIME RATE
MIX NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	N	P2O5	K2O	
3	TALL FESCUE(85%) PERENNIAL RYEGRASS(10%) KENTUCKY BLUEGRASS(5%)	150	3/1-5/15 8/15-11/15				
6	WEEPING LOVEGRASS(75%) SERRECTA LESPEDEZA(25%)	4	3/1-5/15	90 lb/ac (2.0 lb/1000 st)	175 lb/ac (4 lb/1000 st)	175 lb/ac (4 lb/1000 st)	2 tons/ac (100 lb/1000 st)
10	TALL FESCUE(80%) HARD FESCUE(20%)	120	3/1-5/15 8/15-11/15				

VI. TURFGRASS ESTABLISHMENT
THIS INCLUDES LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. AREAS TO RECEIVE SEED SHALL BE FILLED BY DISCING OR BY OTHER ACCEPTED METHODS TO A DEPTH OF 3 TO 5 INCHES, LEVELLED AND RAKED TO PREPARE A PROPER SEEDING. STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER SHALL BE REMOVED. THE RESULTING SEEDBED SHALL BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY. USE CERTIFIED MATERIAL AND CHOOSE A TURFGRASS MIXTURE FROM PAGE 6-20 OF THE 1994 STANDARDS AND SPECIFICATIONS OR SELECT FROM THE LIST IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MME0 #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND".

VII. MULCHING

ALL SEEDINGS REQUIRE MULCHING. ALSO MULCH DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE. MULCH SHALL BE UNROOTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS/ACRE OR 90 LBS/1000 S.F. (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS/ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND, TO A DEPTH OF 1-2 INCHES. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, WOOD CELLULOSE FIBER OR LIQUID MULCH BINDERS.

APPLY WOOD CELLULOSE FIBER AT A DRY WEIGHT OF 1,500 LBS./ACRE. IF MIXED WITH WATER, USE 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

LIQUID BINDER SHOULD BE APPLIED HEAVIER AT THE EDGE, WHERE WIND CATCHES MULCH IN VALLEYS, AND ON CREST BANKS. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION. APPLY RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR AND MULCH. STAPLE LIGHT WEIGHT, PLASTIC NETTING OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

VIII. SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR USING STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTED AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED AFTER INSTALLATION. DAILY WATERING TO MAINTAIN A 1/4" DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

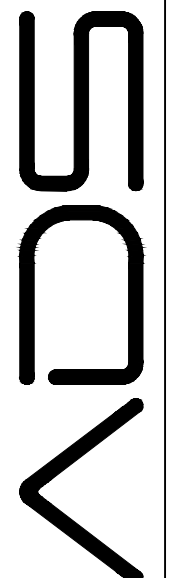
IX. MAINTENANCE

A. IRRIGATE-APPLY MINIMUM 1" OF WATER EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE, WHEN SOIL MOISTURE BECOMES DEFICIENT TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION.
B. REPAIRS- IF STAND PROVIDES BETWEEN 40% AND 94% GROUND COVERAGE, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND PROVIDES LESS THAN 40% COVERAGE, REESTABLISH STAND FOLLOWING ORIGINAL RATES AND PROCEDURES.

NOTE:
USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

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