

PERMIT NUMBER: B 21000336

DATE ACCEPTED: 2/1/2021



RESIDENTIAL BUILDING PERMIT APPLICATION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS
3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4
www.howardcountymd.gov

BUILDING SITE ADDRESS REQUIRED

Street Address: 15612 LINDEN GROVE LN
City: Woodbine State: MD Zip Code: 21797
Subdivision/Village/Complex Name: Linden Grove SDP/WP/BA #:
Lot: 211 Tax Map: Parcel: Grading Permit #:

DESCRIPTION OF WORK REQUIRED

Existing Use: Vacant lot Proposed Use: SFD Estimated Cost: \$ 300,000
Trade Work to Be Completed (Separate Permits Required): Mechanical (HVACR) Electrical Plumbing None
New 2 story "Beauwick" Fairview elev, with 2 car side level garage, 2 car side attached garage, Great multi-level suite, Walk out Luxury Carport Deck, 1st floor level (see room and bedroom)

PROPERTY OWNER INFORMATION REQUIRED

Owner(s) Name(s) (As it appears on tax records): Tall Mid Atlantic LPO INC Primary Residence: Yes No
Owner's Street Address: 250 Gibraltar Rd. contact: Summer Riley
City: Harsham State: PA Zip Code: 19044
Phone: 410-872-9105 Email: sriley1@tallbrothers.com

APPLICANT NAME REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION

Business Name: Decorator Building Services Contact Name: Jim Kerwin
Street Address: PO Box 552
City: Woodbine State: MD Zip Code: 21797
Phone: 410-309-7792 Email: jim@decoratorbuilding.com

CONTRACTOR INFORMATION REQUIRED

Business Name: Tall Mid Atlantic LPO Inc contact: Summer Riley
Licensee's Name: Tall Mid Atlantic LPO Inc License #: 8220
Street Address: 7164 Columbia Gateway Dr, Ste. 230
City: Columbia State: MD Zip Code: 21046
Phone: 410-872-9105 Email: sriley1@tallbrothers.com

ARCHITECT/ENGINEER INFORMATION INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE

Business Name: Name:
Street Address:
City: State: Zip Code:
Phone: Email:

BUILDING CHARACTERISTICS REQUIRED

Primary Structure: SF Dwelling SF Townhouse SF Duplex Mobile Home Multi-Family Dwelling (MF\*) Condo: Yes No
Utilities: Electric Gas Water Supply: Public Private (Well) Sewage Disposal: Public Private (Septic)
Heating System: Electric Natural Gas Propane Other: Roadside Tree Project: No Yes: #
Sprinkler System: NFPA 13 NFPA 13R NFPA 13D None Fire Alarm System: Yes No Voice Evac

ADDITIONAL RESIDENTIAL INFORMATION (PLEASE SELECT/COMPLETE ALL THAT APPLY)

Model Name & Options: Beauwick Fairview elev, 2 car side garage, 2 car side attached garage, Multi-level suite, Walk out garage deck
# of Bedrooms (SF): 6 # of efficiency units (MF\*): # of 1 BR (MF\*): # of 2 BR (MF\*): # of 3 BR (MF\*):
# Rooms: 12 # Full Baths: 5 # Half Baths: 1 # Fireplaces: 11
Garage/Carport Info: Attached Garage Detached Garage Integral Garage Carport None
Basement/Foundation Info: Slab on Grade Post & Pier Unfinished Basement Finished Basement: Full or Partial
1st Fl Width: 95 1st Fl Depth: 67 2nd Fl Width: 59 2nd Fl Depth: 43 Bsmt Width: 73 Bsmt Depth: 62
Energy Method: Prescriptive Performance UA Alternative ERI Gross Area: 9,374 sq ft Occupiable Area: 5870 sq ft

AGREEMENT/ DISCALIMER REQUIRED

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 ORIGINAL SIGNATURE DATE SIGNED 2/1/2021

FOR OFFICE USE ONLY

CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS: PR DPZ DED Health SHA CID
SUBMITTAL FEES: \$150.00 PAYMENT: CV# 10374659 ACCEPTED BY: DP OPR

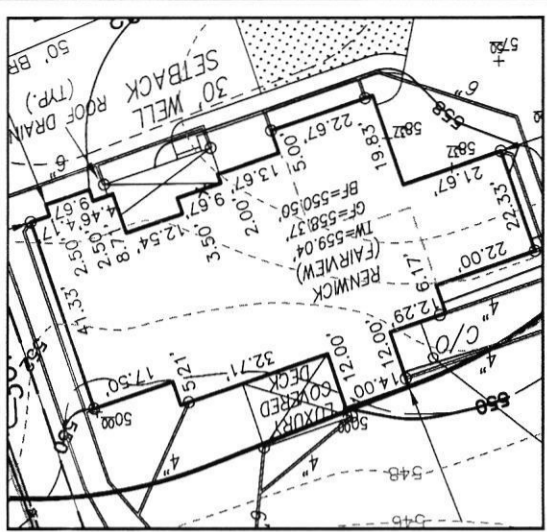
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

- LEGEND:
- BRL BUILDING RESTRICTION LINE
  - WELL LOCATION
  - TOP OF WALL
  - G.F. GARAGE FLOOR
  - B.F. BASEMENT FLOOR
  - PASSSED PERC LOCATION
  - FAILED PERC LOCATION
  - SILT FENCE
  - SUPER SILT FENCE
  - STONE CONSTRUCTION ENTRANCE
  - SEPTIC RESERVE AREA
  - WELL BOX AREA
  - PROPOSED TREE
  - PROPOSED TREE

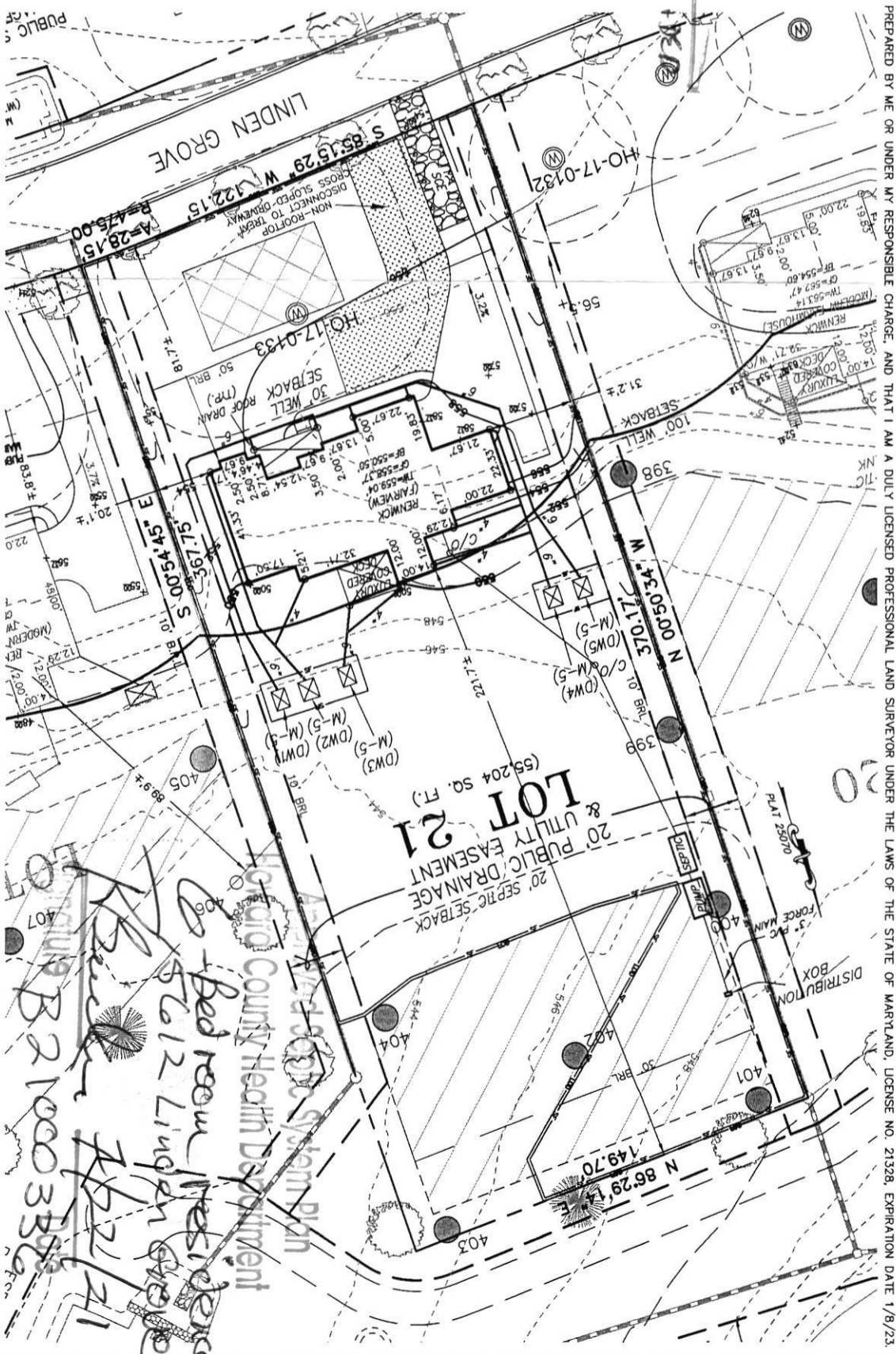
Date: 7-22-2021  
 Comments: per Health Dept

#B21000336

NOTE: TOTAL LIMITS OF DISTURBANCE (LOD) = 47,815 SQ. FT.



WELL NUMBER: HO-17-0133  
 ADDRESS: 15612 LINDEN GROVE LANE WOODBINE, MD 21797  
 HOUSE ENLARGEMENT NOT TO SCALE



HOUSE TYPE: RENWICK (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED BASEMENT
- WALK-OUT BASEMENT
- ADDITIONAL TWO CAR FRONT ENTRY GARAGE
- GRAND MULTI-GENERATIONAL SUITE ADDITION
- PREP KITCHEN
- WALK-OUT LUXURY COVERED DECK
- BEDROOM FOR FINISHED LOWER LEVEL
- ADDITIONAL BATH
- POWDER ROOM FOR FINISHED LOWER LEVEL
- TAIL IN REAR OF STANDARD DRIVEWAY
- UPGRADE FIREPLACE 60" PRIMO
- WET BAR ROUGH IN LOCATED IN BASEMENT

- OPTION No. 012
- OPTION No. 013
- OPTION No. 017
- OPTION No. 263019
- OPTION No. 263075
- OPTION No. 263158
- OPTION No. 263169
- OPTION No. 263216
- OPTION No. 367
- OPTION No. 263036
- OPTION No. 852
- OPTION No. 90021003
- OPTION No. 90021012

PLOT PLAN  
 LOT 21  
 LINDEN GROVE  
 LIBER 1619, FOLIO 341  
 PLAT NO. 25070  
 ELECTION DISTRICT No. 4  
 HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**  
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENT

ESE Consultants, Inc.  
 764 Columbia Gateway Drive • Suite 250 • Columbia, MD 21046  
 T. 410-872-9105

DATE: 05/20/2021 SCALE: 1" = 40' FILE: PP LOT 21 - Renwick F.V.\_rev2  
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

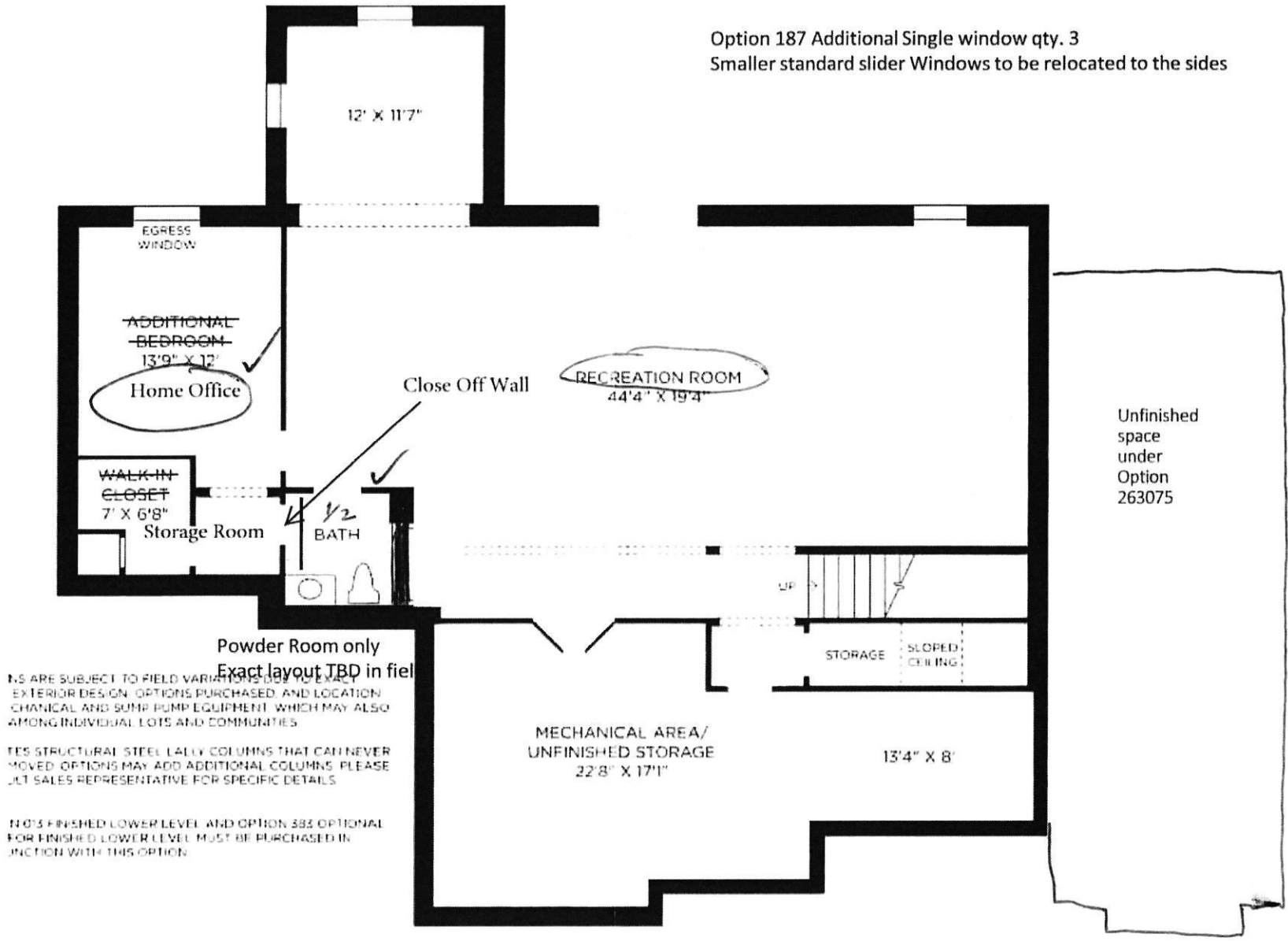


00 336

Bedroom to  
Full Bath to

Linden Grove - Lot 021 MOTSCO  
Please see Exhibit B for full option detail

Option 187 Additional Single window qty. 3  
Smaller standard slider Windows to be relocated to the sides



PLANS ARE SUBJECT TO FIELD VARIATIONS DUE TO EXACT EXTERIOR DESIGN, OPTIONS PURCHASED, AND LOCATION MECHANICAL AND SUMP PUMP EQUIPMENT WHICH MAY ALSO AMONG INDIVIDUAL LOTS AND COMMUNITIES

NOTES STRUCTURAL STEEL LALLY COLUMNS THAT CAN NEVER BE MOVED. OPTIONS MAY ADD ADDITIONAL COLUMNS. PLEASE CONTACT SALES REPRESENTATIVE FOR SPECIFIC DETAILS

NO FINISHED LOWER LEVEL AND OPTION 383 OPTIONAL FOR FINISHED LOWER LEVEL MUST BE PURCHASED IN CONJUNCTION WITH THIS OPTION

BEDROOM + FULL BATH

DocuSigned by:  
Jeff Motasco  
FB29C7FACFF5468

12-01-2020

DocuSigned by:  
Jeanene Motasco  
24A031FBF5D4423...

12-01-2020

Name of Requestor: Jim Kerwin Decatur Building Services  
Street Address: PO Box 552  
City, State, Zip: Woodbine MD 21797  
Date: 8/11/2021

Amendment, Permit # B21000336

AMENDMENT

Ms. Debbie Whalen  
Division of Plan Review  
Department of Inspections, Licenses and Permits  
Howard County Government  
3430 Court House Dr  
Ellicott City, MD 21043

Dear Ms. Whalen:

I am requesting to amend Permit # B21000336 at  
15612 Linden Grove Lane Woodbine MD 21797 to

(Site Address)  
remove Basement Bedroom to become a Home office  
remove full Bath in Basement to become a 1/2 Bath  
total number of Bedrooms 5

Enclosed: CX#3486  
 Fee: \$25.00 INV#670755  
 Plot Plans  
 Sets of Construction Drawings  
 Other: Floor plan of finished Basement

If there is anything we can do to assist you, please let me know.

Sincerely,  
Jim Kerwin

Name: Jim Kerwin  
Title: Agent for Toll Brothers LLC  
Phone and/or Email: Jim@DecaturbuildingServices.com

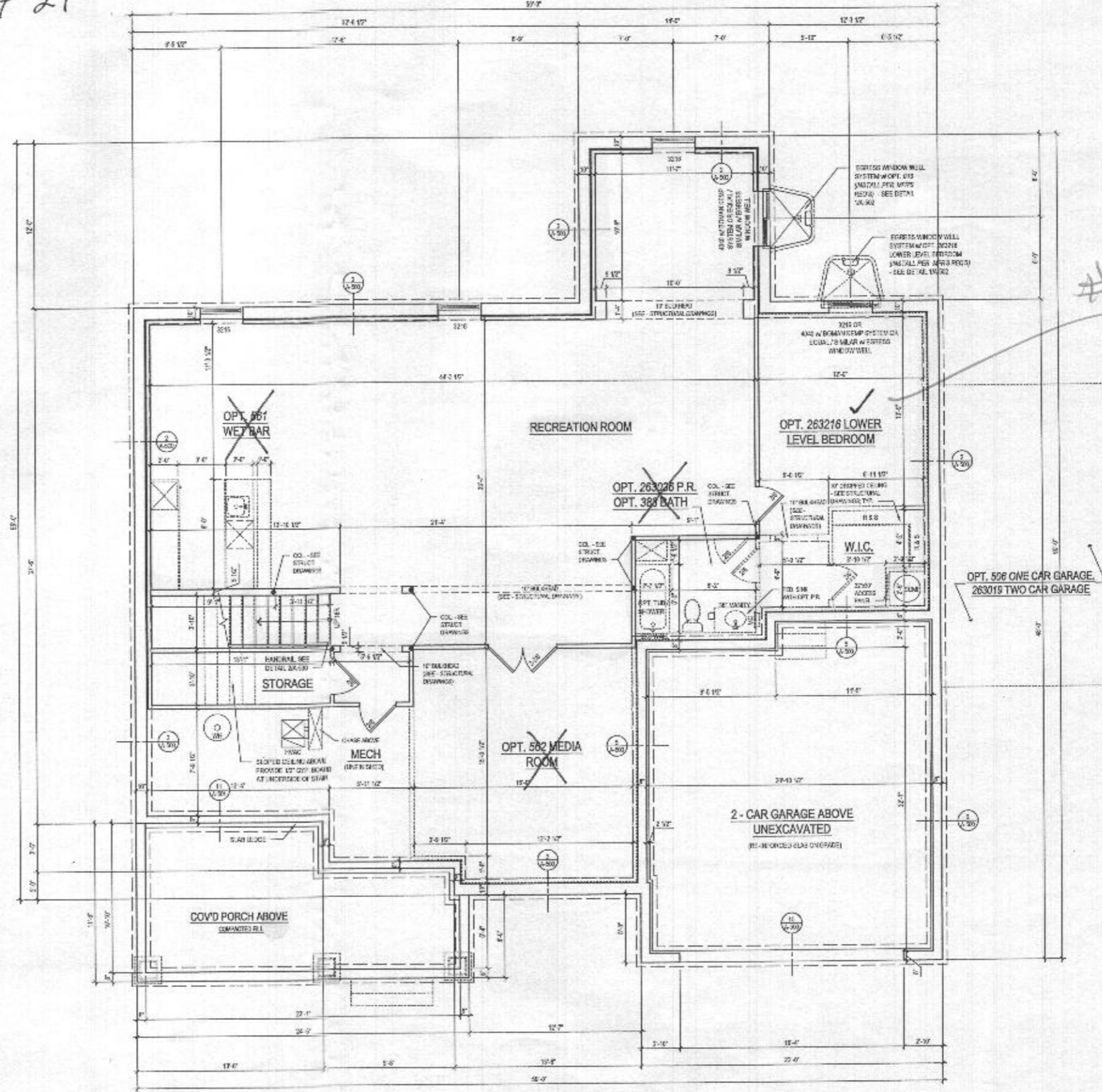
REVIEWED FOR  
CODE COMPLIANCE  
DEPARTMENT OF INSPECTIONS,  
LICENSES AND PERMITS  
HOWARD COUNTY  
DATE: 8/12/21  
BY: D Whalen  
 SUBJECT TO COMMENTS OF LETTER  
 SUBJECT TO FIELD INSPECTION  
 SUBJECT TO COMMENTS ON PLANS  
 AMENDMENT  FINAL



15612 Linden Grove Lane  
Lot 21

Health Dept

- GENERAL PLAN NOTES**
- ALL WOOD BILD PARTITIONS NOT DIMENSIONED ARE TO BE 3/4" ON INTERIOR AND 1/2" FOR EXTERIOR WALLS UNLESS OTHERWISE NOTED.
  - ALL INTERIOR DIMENSIONS ARE TO FACE OF STUDS.
  - ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUDS.
  - ALL DIMENSIONS GOVERN OVER SCALE.
  - ALL SHOWN DETECTING ARE TO BE W/RED IN SUCH A MANNER THAT ACTIVATION OF ONE WILL ACTIVATE THEM ALL.
  - ENCLOSURE ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS AND SUFFITS PROTECTED ON ENDS, CEILING WITH 1/2" GYPSUM BOARD.
  - ALL WINDOWS SIZE ARE NOTED IN FEET + INCHES AS MEASURED FROM SASH TO SASH.
  - REFER TO ELEVATIONS FOR WINDOW HEAD HEIGHTS.
  - ALL DOORS ARE TO BE 34" HIGH UNLESS OTHERWISE NOTED.
  - WASH OR ALWAYS TO BE ON LEFT SIDE OF ENTRY.
  - DEHWASH-ER ALWAYS TO BE ON RIGHT SIDE OF SINK.



#16

**lessard DESIGN**  
8521 Leesburg Pike  
Suite 700 | Vienna, VA 22182  
P: 571.830.1800 | F: 571.830.1801  
www.lessarddesign.com

SEAL & SIGNATURE

**OWNER:**  
TOLL BROTHERS  
7104 COLUMBIA GATEWAY DRIVE  
COLUMBIA, MD 21046  
P: 410.872.8105  
CONTACT: MARK NCSAL  
1705048@tollbrothers.com

**EXECUTIVE SERIES**  
WILLOW CREEK  
HOWARD COUNTY, MD  
**RENWICK**  
**FLOOR PLANS**

PROJECT NAME: \_\_\_\_\_

| NO. | DESCRIPTION      | DATE     |
|-----|------------------|----------|
| 1   | ISSUE / REVISION |          |
| 2   | NO SET           | 23.12.20 |
| 3   | PRINT SET        | 23.12.20 |

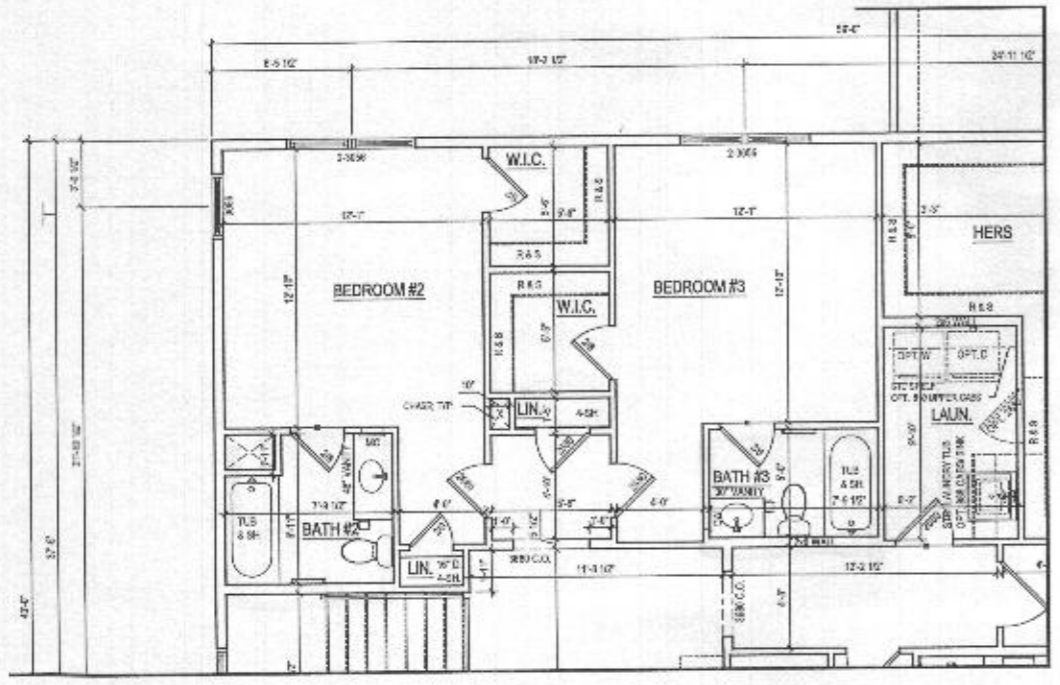
PROJECT NO: TOL003  
DESIGN BY: JG  
CHECKED BY: JG  
PROJECT DATE: Sep 13, 2020  
FILE NAME: TOL003\_A100a.dwg

**1 BASEMENT FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
A-100a

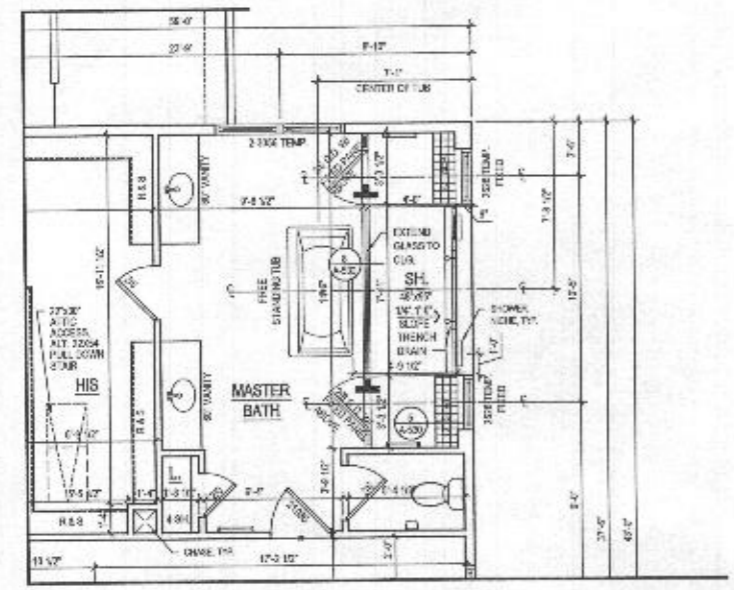
W/ OPT. 013 RECREATION ROOM @ ELEV. 1 - CRAFTSMAN  
@ FINISHED CONDITION



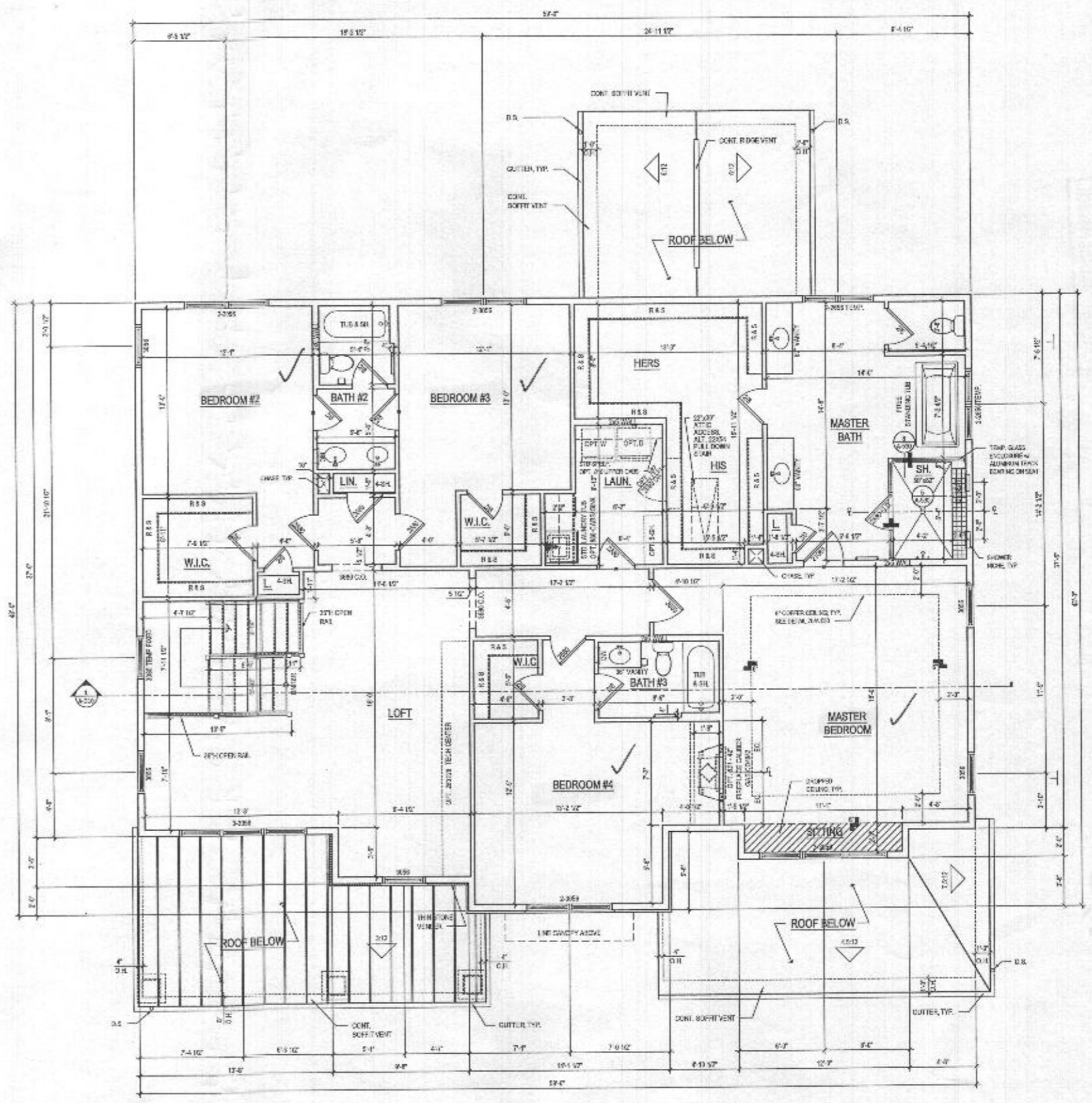
- GENERAL PLAN NOTES**
- ALL WOOD STUD PARTITIONS NOT DIMENSIONED ARE TO BE 2" X 4" UNLESS OTHERWISE NOTED.
  - ALL EXTERIOR WALLS UNLESS OTHERWISE NOTED.
  - ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD.
  - ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUD.
  - ALL DIMENSIONS GOVERN OVER SCALE.
  - ALL SMOKE DETECTORS ARE TO BE WIRED IN SUCH A MANNER THAT ACTIVATION OF ONE WILL ACTIVATE THEM ALL.
  - FINISHED ACCESSIBLE SPACE (FINISHED STAIRS) IS TO HAVE WALLS AND SLOTTED PROTECTION END OF STAIR WITH 1/2" CURB DOWNWARD.
  - ALL WINDOWS SIZE ARE TO FACE UNLESS OTHERWISE NOTED FROM SCHEDULE.
  - REFER TO ELEVATIONS FOR WINDOW HEAD HEIGHTS.
  - ALL DOORS ARE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
  - WASHER ALWAYS TO BE ON LEFT SIDE OF DRYER.
  - DESK/CHAIR ALWAYS TO BE ON RIGHT SIDE OF DESK.



**2 ALT. SECOND FLOOR PLAN** W/ OPT. 367 - BATHROOM #3  
 A-120 SCALE: 1/4"=1'-0"  
 12/28/11



**3 PART. SECOND FLOOR PLAN** W/ OPT. 055 - LUXURY MASTER BATH  
 A-120 SCALE: 1/4"=1'-0"  
 12/28/11



**1 SECOND FLOOR PLAN** @ FLEV. 1 - CRAFTSMAN  
 A-120 SCALE: 1/4"=1'-0"  
 12/28/11

**lessard DESIGN**  
 8521 Leeburg Pike  
 Suite 700 | Vienna, VA 22182  
 P: 571.830.1800 | F: 571.830.1801  
 www.lessarddesign.com

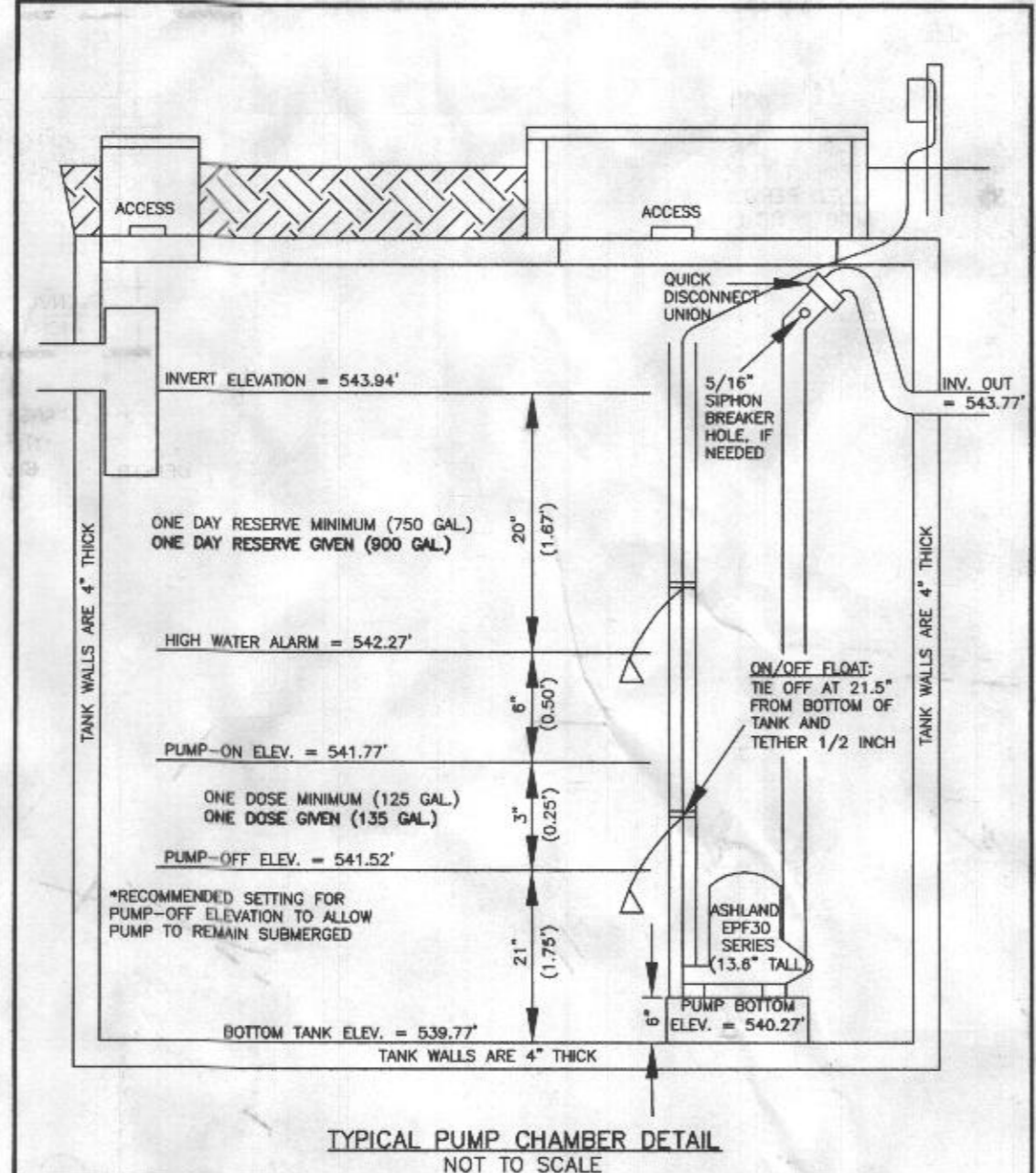
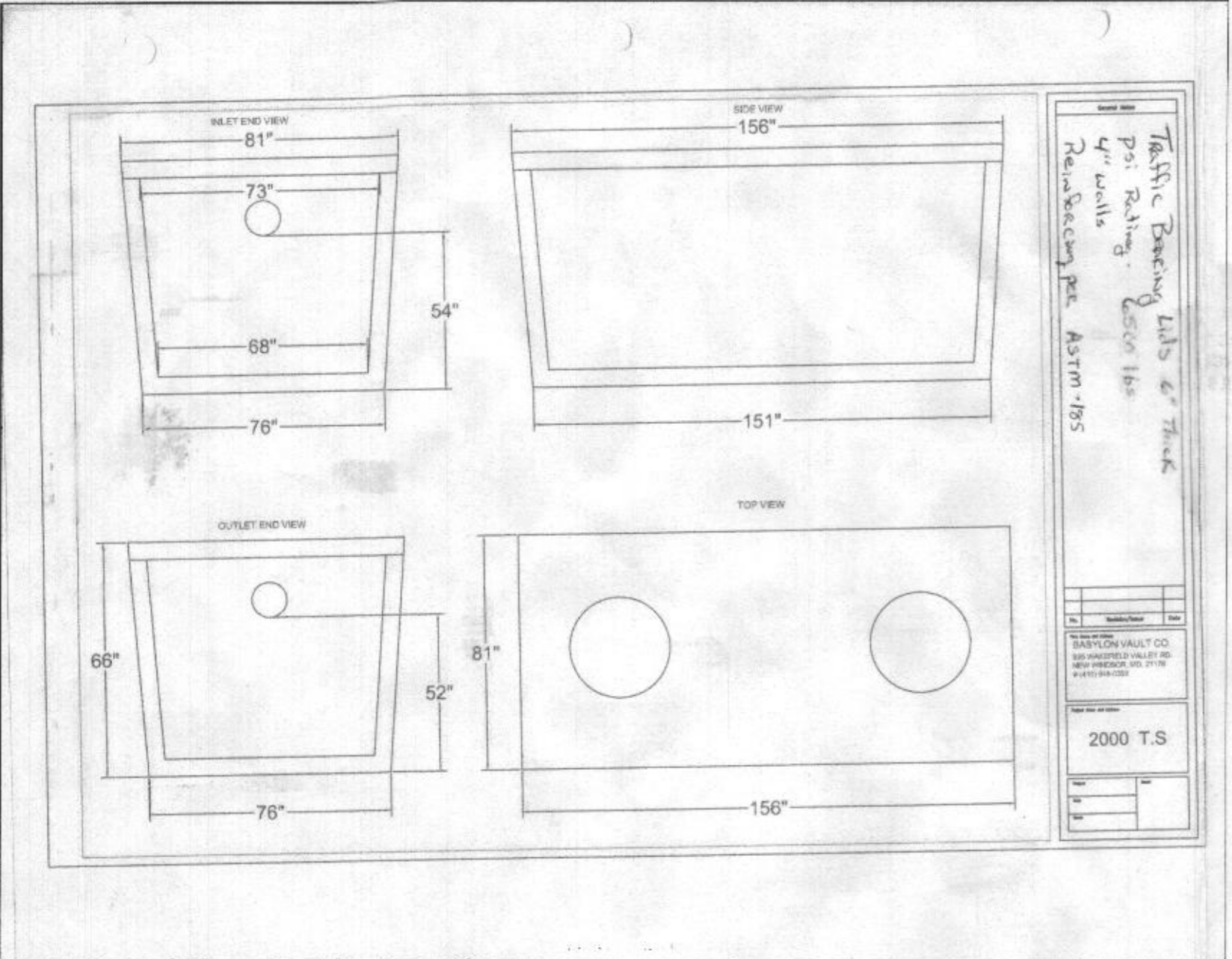
**TOLL BROTHERS**  
 2164 COLLINGA GATEWAY DRIVE  
 COLLINGSWOOD, MD 21036  
 P: 410.572.9105  
 CONTACT: MARK BOSAL  
 mbosal@tollbrothers.com

**EXECUTIVE SERIES**  
 WILLOW CREEK  
 HOWARD COUNTY, MD  
**RENWICK**  
**FLOOR PLANS**

| NO. | DESCRIPTION      | DATE |
|-----|------------------|------|
| 1   | ISSUE / REVISION |      |
| 2   | ISSUE / REVISION |      |
| 3   | ISSUE / REVISION |      |
| 4   | ISSUE / REVISION |      |
| 5   | ISSUE / REVISION |      |
| 6   | ISSUE / REVISION |      |
| 7   | ISSUE / REVISION |      |
| 8   | ISSUE / REVISION |      |
| 9   | ISSUE / REVISION |      |
| 10  | ISSUE / REVISION |      |

**A-120**





- HOUSE OPTIONS:**
- TWO CAR SIDE ENTRY GARAGE
  - FINISHED BASEMENT
  - WALK-OUT BASEMENT
  - ADDITIONAL TWO CAR FRONT ENTRY GARAGE
  - GRAND MULTI-GENERATIONAL SUITE ADDITION
  - PREP KITCHEN
  - WALK-OUT LUXURY COVERED DECK
  - BEDROOM FOR FINISHED LOWER LEVEL
  - ADDITIONAL BATH
  - POWDER ROOM FOR FINISHED LOWER LEVEL
  - TAIL IN REAR OF STANDARD DRIVEWAY
  - UPGRADE FIREPLACE 60" FRINGE
  - WET BAR ROUGH IN LOCATED IN BASEMENT
- OPTION No. 012**  
OPTION No. 013  
OPTION No. 017  
OPTION No. 283019  
OPTION No. 283075  
OPTION No. 283168  
OPTION No. 283169  
OPTION No. 283216  
OPTION No. 367  
OPTION No. 283036  
OPTION No. 862  
OPTION No. 90021003  
OPTION No. 90021012

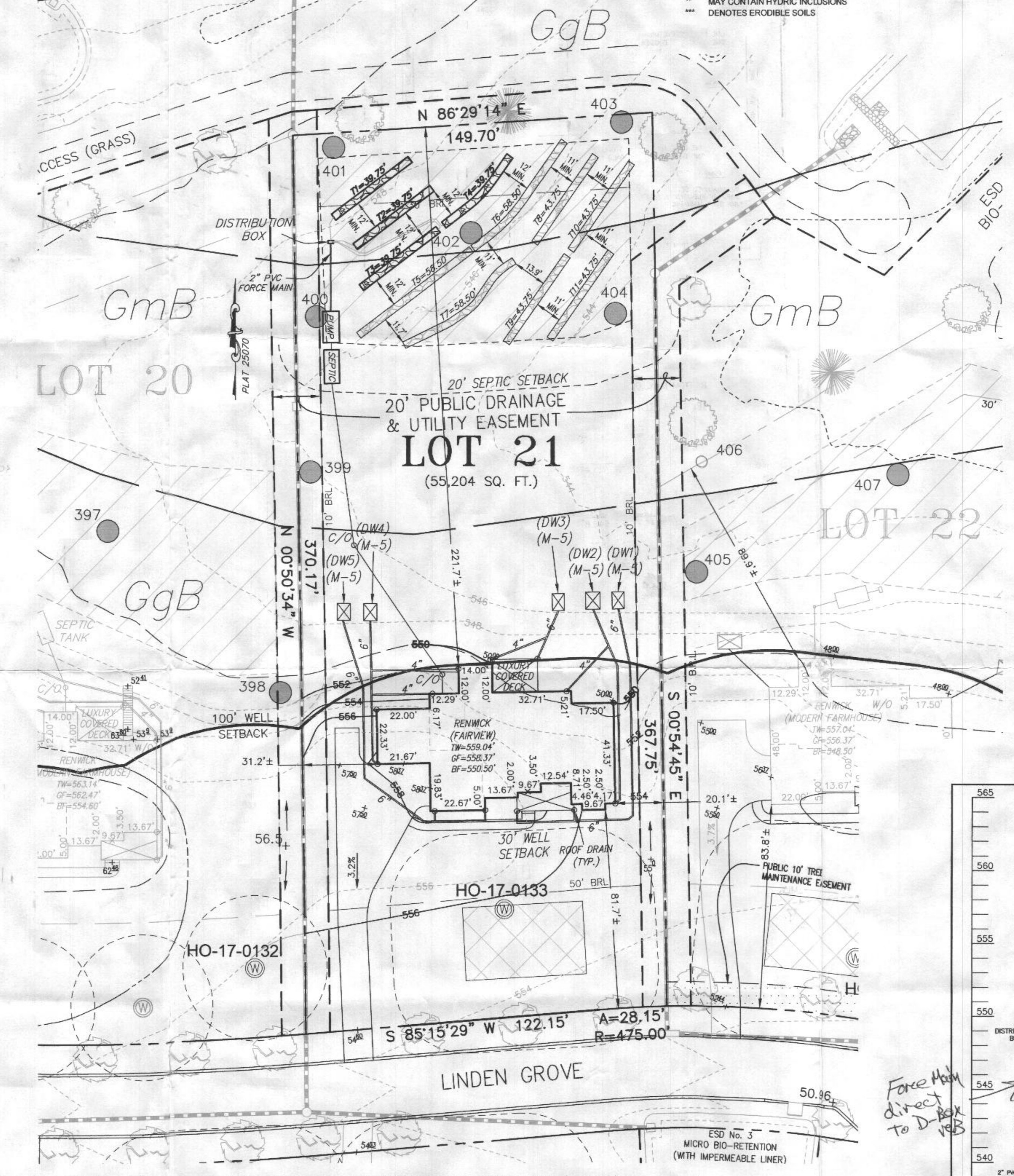
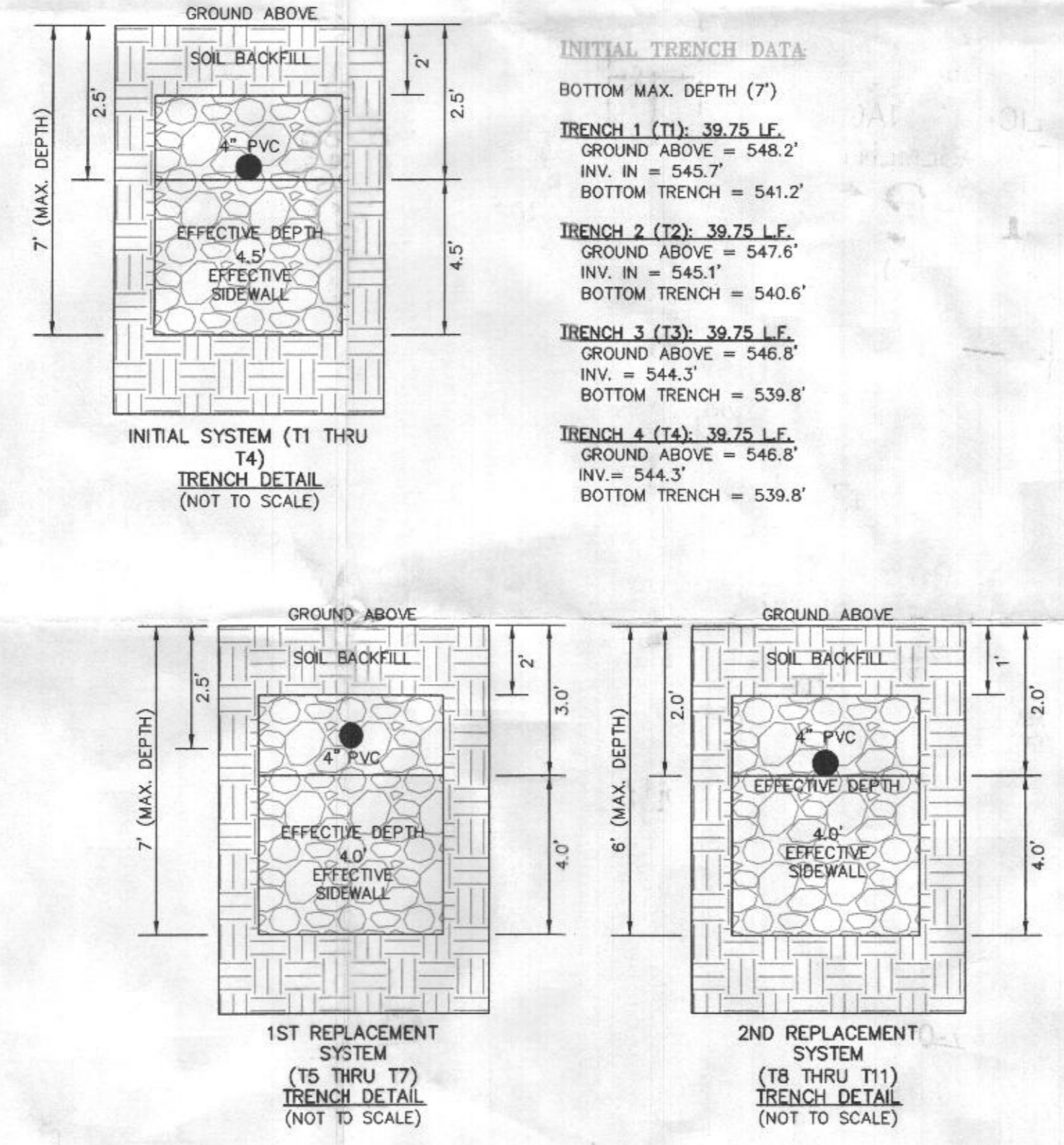
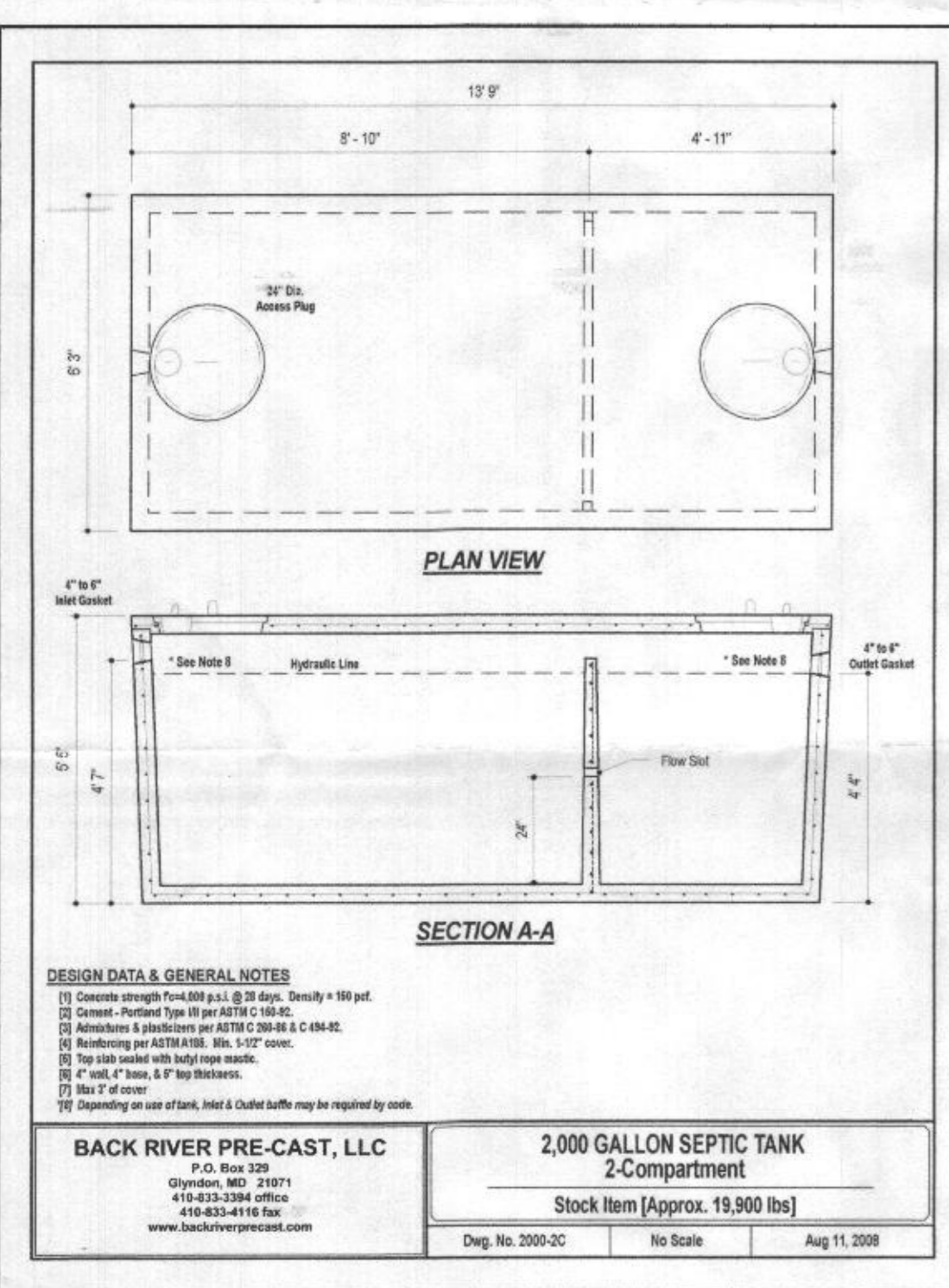
- LEGEND:**
- BRL BUILDING RESTRICTION LINE
  - (W) WELL LOCATION
  - T.W. TOP OF WALL
  - G.F. GARAGE FLOOR
  - B.F. BASEMENT FLOOR

**SOILS LEGEND**

| SOIL | NAME  | CLASS | Kw |
|------|---|-------|----|
| Brd  | BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES   | B     | 20 |
| GgB  | GLENELG LOAM, 0 TO 3 PERCENT SLOPES               | B     | 20 |
| GgB  | GLENELG LOAM, 3 TO 8 PERCENT SLOPES               | B     | 20 |
| GgC  | GLENELG LOAM, 8 TO 15 PERCENT SLOPES              | B     | 20 |
| GmA  | GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES        | C     | 37 |
| GmB  | GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES        | C     | 37 |
| GmB  | GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES       | C     | 37 |
| GmB  | GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES | C     | 37 |
| MnC  | MANOR LOAM, 8 TO 15 PERCENT SLOPES                | B     | 24 |



- GENERAL NOTES:**
- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
  - EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
  - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
  - BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
  - ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
  - THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
  - THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



**LOW PRESSURE DISTRIBUTION SYSTEM CALCULATIONS**

FLOW = 50 GPM  
TIMED DOSE = 50 GPM @ 2.5 MINUTE INTERVALS IS 125 GALLONS PER DOSE  
TOTAL DOSE PER DAY = 125 GALLONS X 6 EVENTS PER DAY IS 750 GPD

TRENCH 1 (T1) INV. ELEV.=545.70' LENGTH=39.75'  
TRENCH 2 (T2) INV. ELEV.=545.10' LENGTH=39.75'  
TRENCH 3 (T3) INV. ELEV.=544.30' LENGTH=39.75'  
TRENCH 4 (T4) INV. ELEV.=544.30' LENGTH=39.75'

FORCEMAN LENGTH = 28.00' TYPE=SCH40  
MIN. SYSTEM DISCHARGE RATE = 50 GPM  
MANIFOLD DIAMETER = 2 IN.  
FORCE MAIN DIAMETER = 2 IN.  
MINIMUM DOSE = 125 GAL

DESIGN FLOW = 750 GPD  
PUMP OFF ELEV. = 541.52'  
INV. OUT PUMP TANK = 545.95'  
PUMP BOTTOM ELEV. = 540.27'  
PUMP SELECTED = 3/10 HP

VELOCITY = 4.87 FPS  
VELOCITY = 4.87 FPS  
VELOCITY = 4.87 FPS

FRICION LOSS (TABLE 4.4) = 3.98  
FRICION LOSS (TABLE 4.4) = 3.98  
FRICION LOSS = 3.98

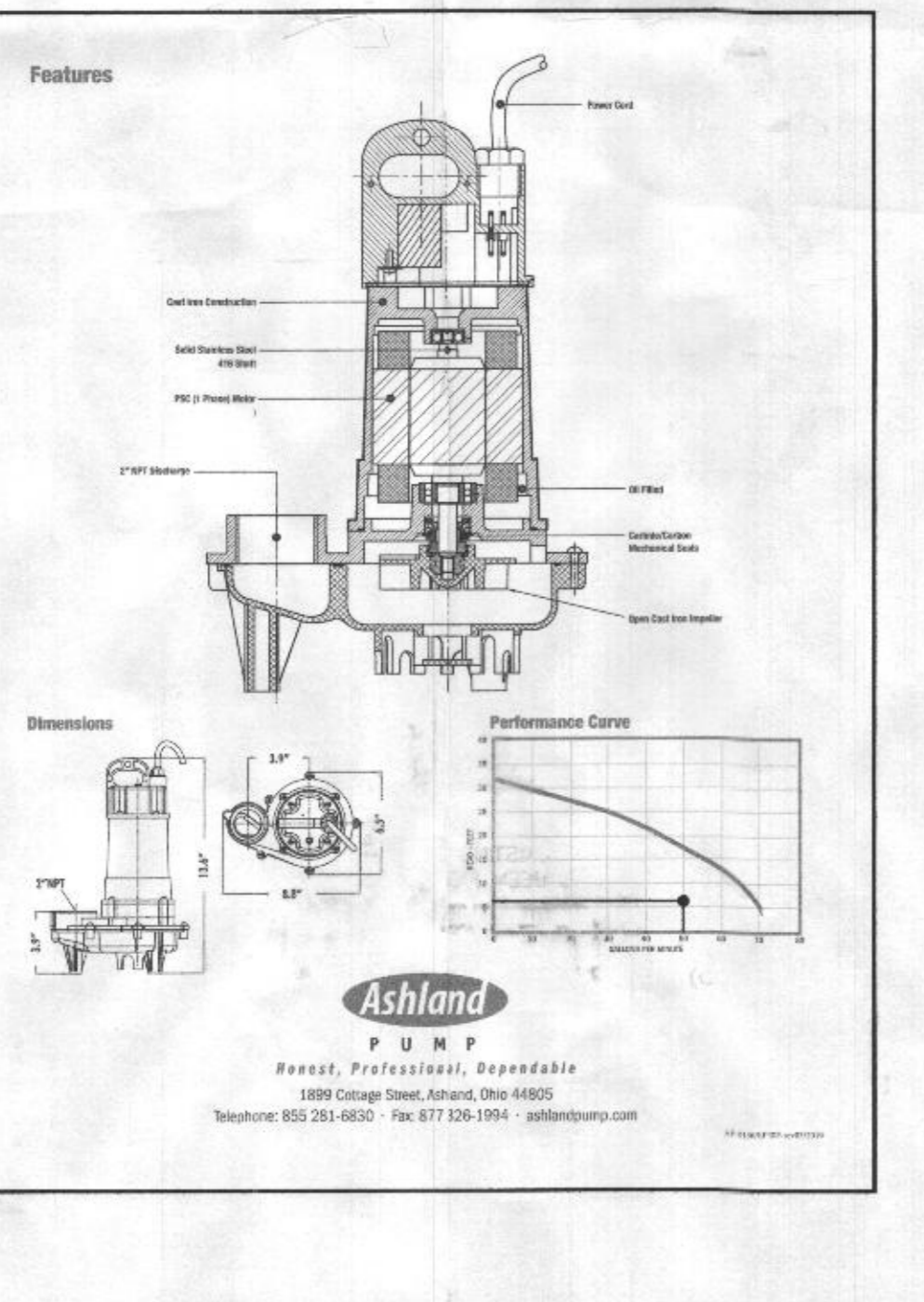
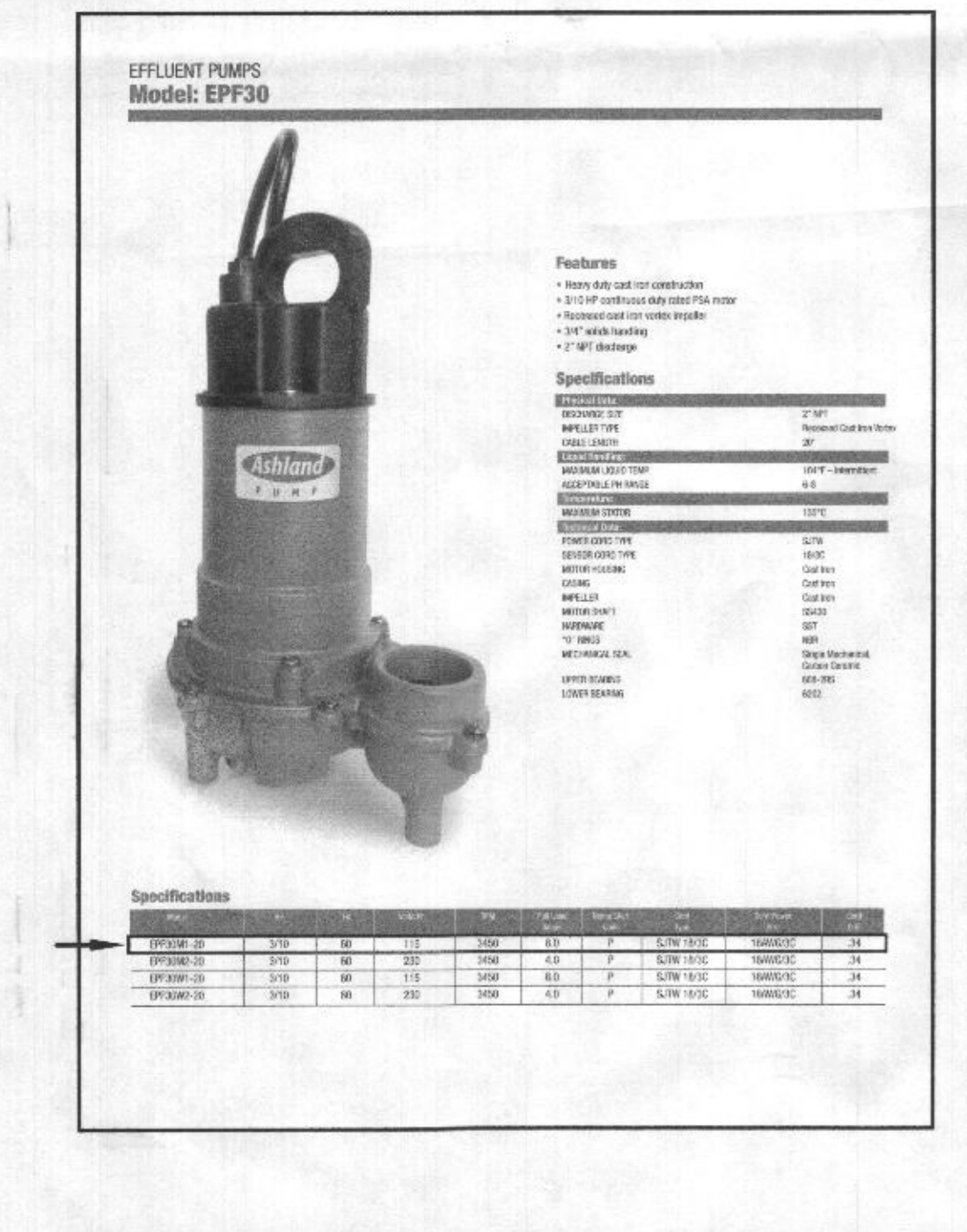
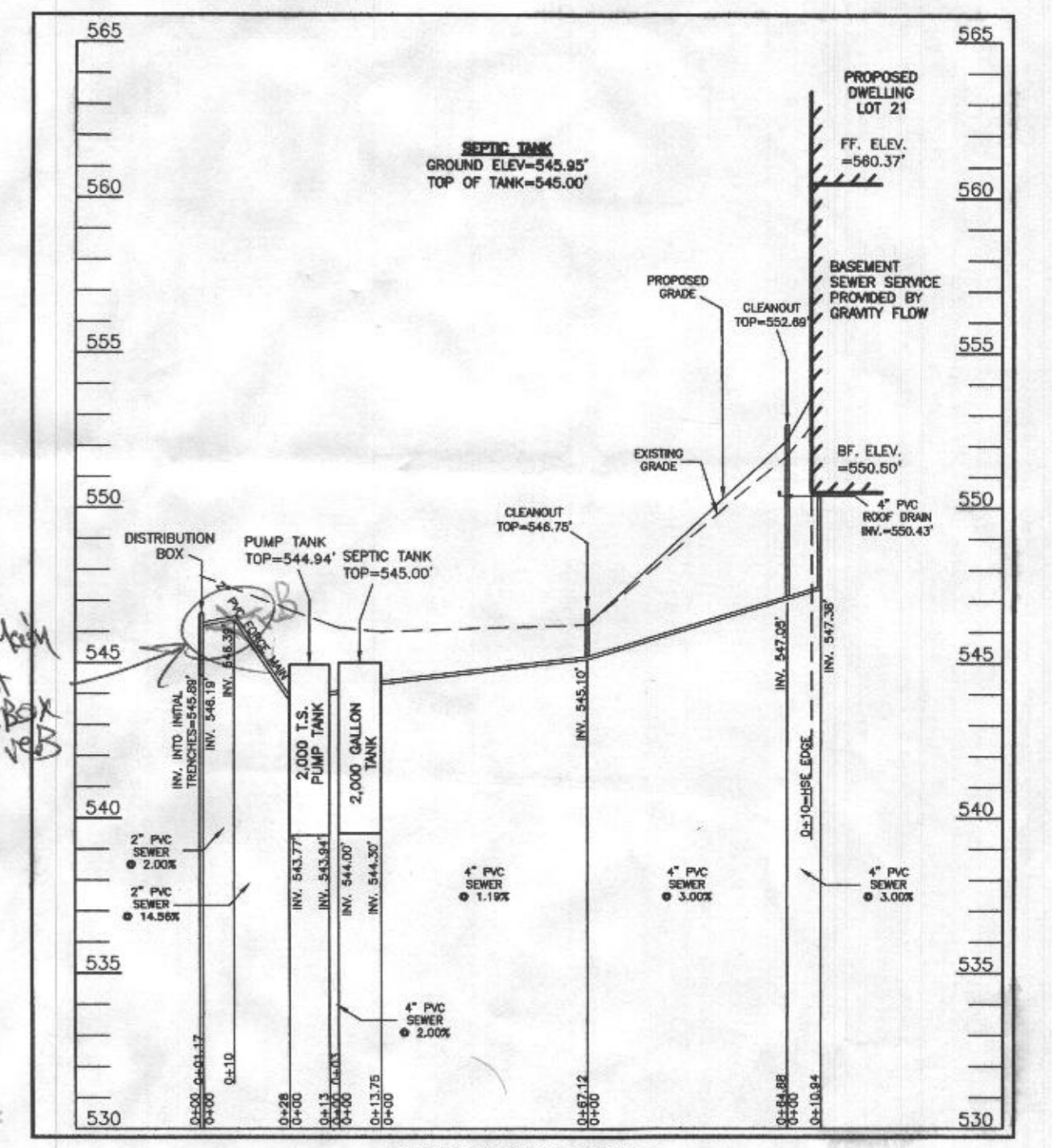
LENGTH OF FM FROM PUMP TANK TO DISTRIBUTION BOX = 28.00' (ADD 6' PER BEND) = N/A  
# OF (45°) BENDS IN FM = N/A (ADD 10' PER BEND) = N/A  
# OF (90°) BENDS IN FM = N/A  
TOTAL LENGTHS = 28.00'  
TOTAL ADD'L LENGTHS = N/A  
TOTAL ADD'L LENGTHS = N/A  
TOTAL LENGTHS = 28.00'  
(50 GPM OF 2" PVC = 3.98 PER 100' PIPE); 3.98 / 100' = 0.0398 x 28.00' = 1.11'

FRICION HEAD = 1.11' FT. (PER ABOVE CALCULATION)  
STATIC HEAD = 4.87' FT. (HIGHEST POINT IN DISTRIBUTION SYSTEM - PUMP OFF FLOAT ELEVATION)  
TOTAL DYNAMIC HEAD = 5.98' FT. (FRICION HEAD + STATIC HEAD)

THEREFORE A PUMP CAPABLE OF DELIVERING AT LEAST 50 GPM AGAINST 5.98' OF HEAD IS REQUIRED.  
EPF30M1-20, 3/10 H.P. IS EFFICIENT

- SEWAGE DISPOSAL SYSTEM DATA (5 BDRM)**
- PROPOSED INVERT AT FOUNDATION WALL: 547.10'
- EX. GRADE OVER TANK: 546.07'  
PROPOSED GRADE OVER TANK: 545.95'  
INVERT IN: 544.30' INVERT OUT: 544.00'
  - DISTRIBUTION BOX  
EXISTING GRADE OVER TANK: 547.50'  
PROPOSED GRADE OVER TANK: 547.50'  
INVERT IN: 543.28' INVERT OUT: 542.98'
  - INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD x 0.6 APP. RATE = 1,250 SF  
USE 3" WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
12" MIN. SPACING BETWEEN TRENCH EDGES  
1,250 SF x 3" WIDTH = 417 LF x 0.38 (SIDEWALL REDUCTION) = 158.33 LF MIN.  
USE 4 38.75' LONG TRENCHES = 158.00 LF
  - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD x 0.6 APP. RATE = 1,250 SF  
USE 3" WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
11" MIN. SPACING BETWEEN TRENCH EDGES  
1,250 SF x 3" WIDTH = 417 LF x 0.42 (SIDEWALL REDUCTION) = 175 LF MIN.  
USE 3 58.50' LONG TRENCHES = 175.50 LF
  - 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
750 GPD x 0.6 APP. RATE = 1,250 SF  
USE 3" WIDE TRENCH WITH 54" GRAVEL BELOW PIPE  
11" MIN. SPACING BETWEEN TRENCH EDGES  
1,250 SF x 3" WIDTH = 417 LF x 0.42 (SIDEWALL REDUCTION) = 175 LF MIN.  
USE 4 43.75' LONG TRENCH = 175.00 LF

**WELL LOCATION CERTIFICATION:**  
THE EXISTING WELL SHOWN FOR LOT 21 (TAG NO. HO-17-0133) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.



**ESE CONSULTANTS**  
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DATE: 06/28/2021 SCALE: 1"=30' FILE: 0305 LOT 21.rvt  
CHK'D: M.L.B. JOB NO: 4683 DRAWN: R.C.K.