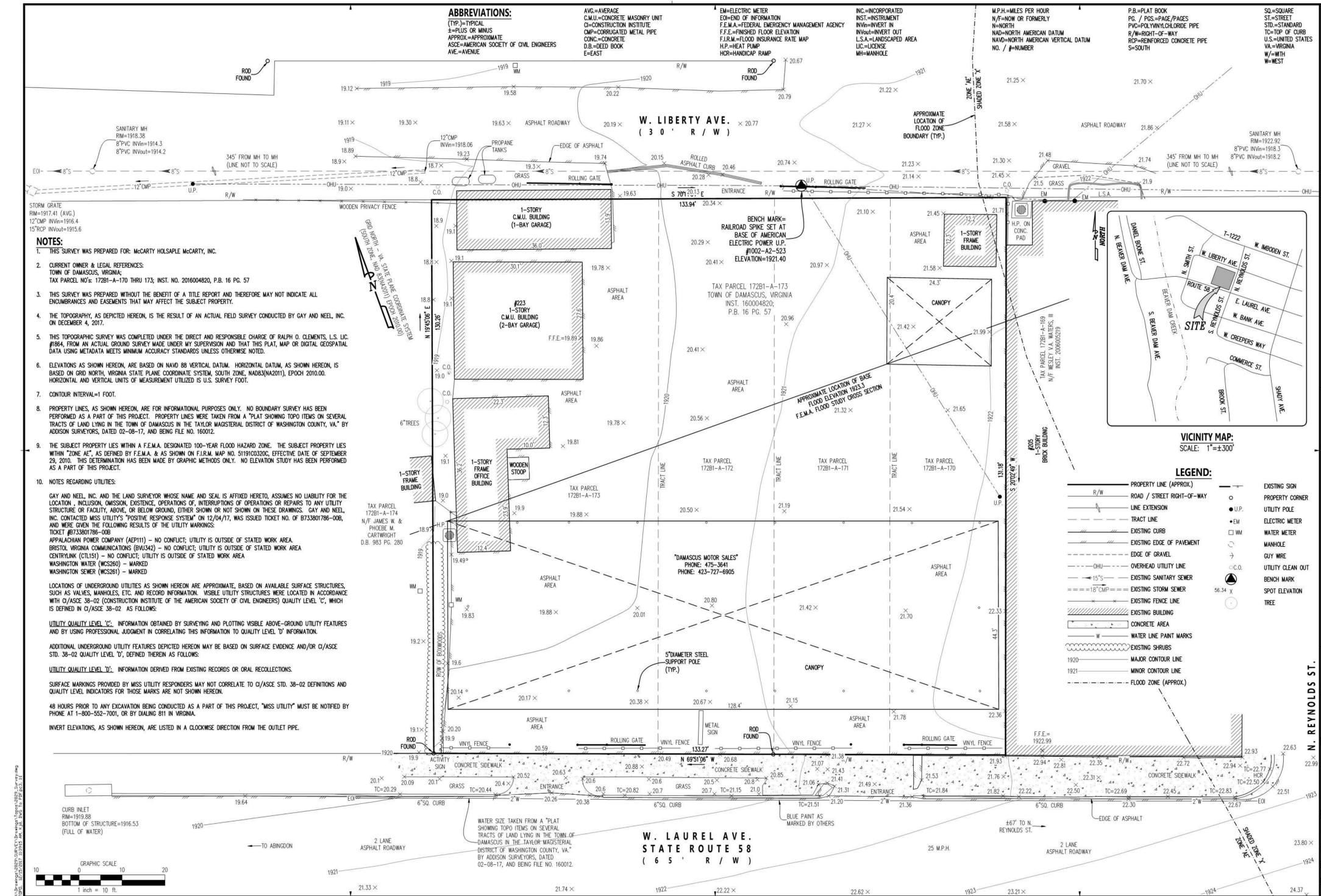


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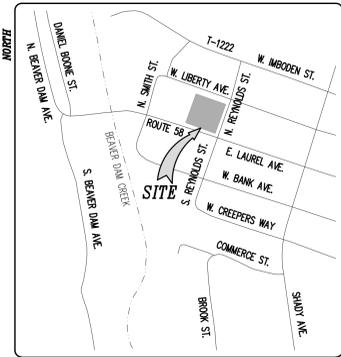
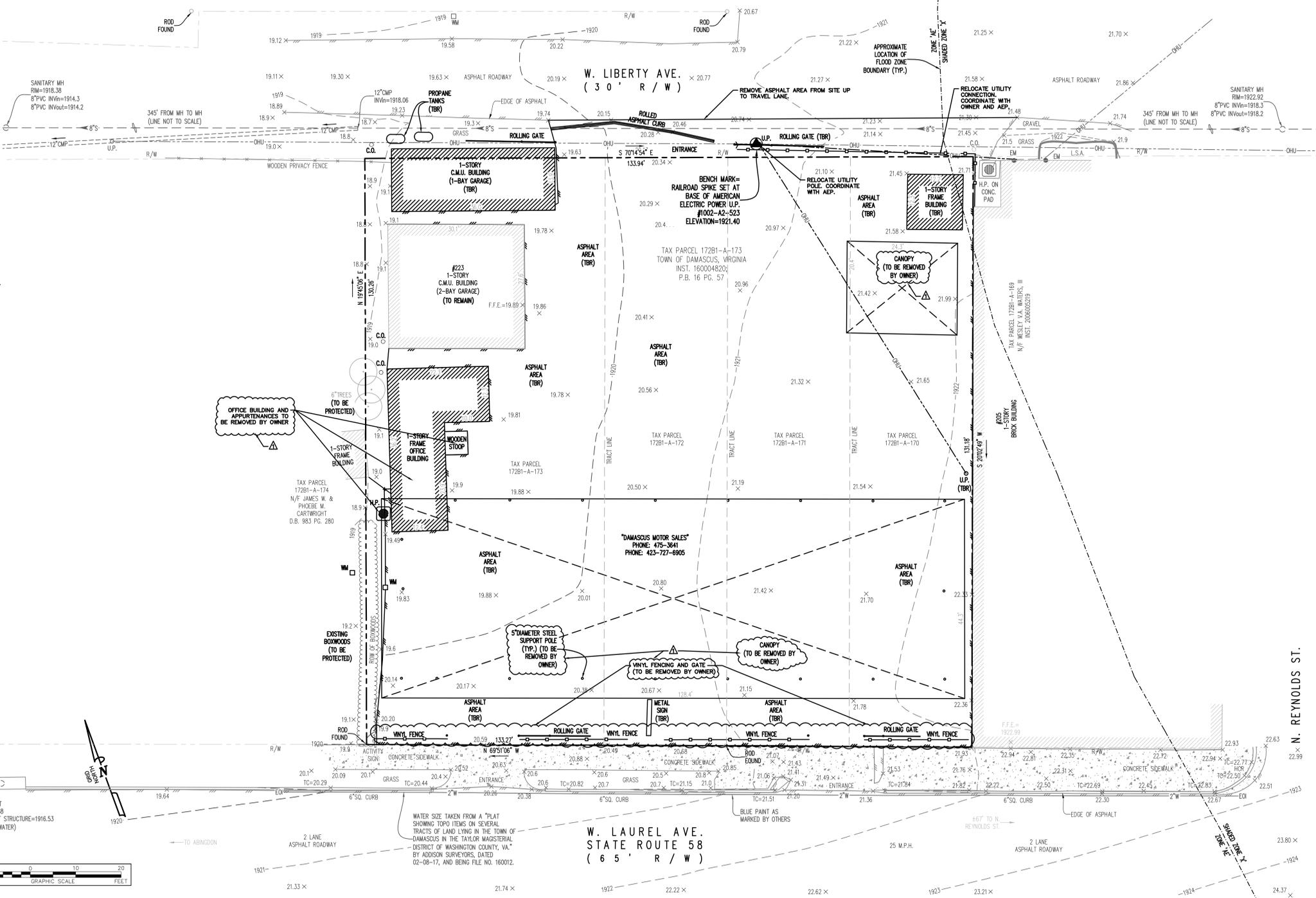


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- NOTES:**
- THIS SURVEY WAS PREPARED FOR: McCARTY HOLSAPLE McCARTY, INC.
 - CURRENT OWNER & LEGAL REFERENCES:
TOWN OF DAMASCUS, VIRGINIA;
TAX PARCEL NO'S: 17281-A-170 THRU 173; INST. NO. 2016004820, P.B. 16 PG. 57
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE MAY NOT INDICATE ALL ENCUMBRANCES AND EASEMENTS THAT MAY AFFECT THE SUBJECT PROPERTY.
 - THE TOPOGRAPHY, AS DEPICTED HEREON, IS THE RESULT OF AN ACTUAL FIELD SURVEY CONDUCTED BY GAY AND NEEL, INC. ON DECEMBER 4, 2017.
 - THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF RALPH O. CLEMENTS, L.S. LIC. #7084, FROM AN ACTUAL GROUND SURVEY MADE UNDER SUPERVISION AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA USING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
 - ELEVATIONS AS SHOWN HEREON, ARE BASED ON NAVD 88 VERTICAL DATUM. HORIZONTAL DATUM, AS SHOWN HEREON, IS BASED ON GRID NORTH, VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83(NAD2011), EPOCH 2010.00. HORIZONTAL AND VERTICAL UNITS OF MEASUREMENT UTILIZED IS U.S. SURVEY FOOT.
 - CONTOUR INTERVAL=1 FOOT.
 - PROPERTY LINES, AS SHOWN HEREON, ARE FOR INFORMATIONAL PURPOSES ONLY. NO BOUNDARY SURVEY HAS BEEN PERFORMED AS A PART OF THIS PROJECT. PROPERTY LINES WERE TAKEN FROM A "PLAT SHOWING TOPO ITEMS ON SEVERAL TRACTS OF LAND LYING IN THE TOWN OF DAMASCUS IN THE TAYLOR MAGISTERIAL DISTRICT OF WASHINGTON COUNTY, VA." BY ADDISON SURVEYORS, DATED 02-08-17, AND BEING FILE NO. 160012.
 - THE SUBJECT PROPERTY LIES WITHIN A F.E.M.A. DESIGNATED 100-YEAR FLOOD HAZARD ZONE. THE SUBJECT PROPERTY LIES WITHIN "ZONE AE", AS DEFINED BY F.E.M.A. & AS SHOWN ON F.I.R.M. MAP NO. 519100320C, EFFECTIVE DATE OF SEPTEMBER 29, 2010. THIS DETERMINATION HAS BEEN MADE BY GRAPHIC METHODS ONLY. F.E.M.A. F.I.R.M. MAPS SHOW THE 100 YEAR FLOOD ELEVATION TO BE 1924 FOR THE PROPERTY. NO ELEVATION STUDY HAS BEEN PERFORMED AS A PART OF THIS PROJECT.
 - NOTES REGARDING UTILITIES:
GAY AND NEEL, INC. AND THE LAND SURVEYOR WHOSE NAME AND SEAL IS AFFIXED HERETO, ASSUMES NO LIABILITY FOR THE LOCATION, INCLUSION, OMISSION, EXISTENCE, OPERATIONS OF, INTERRUPTIONS OF OPERATIONS OR REPAIRS TO ANY UTILITY STRUCTURE OR FACILITY, ABOVE, OR BELOW GROUND, EITHER SHOWN OR NOT SHOWN ON THESE DRAWINGS. GAY AND NEEL, INC. CONTACTED MISS UTILITIES "POSITIVE RESPONSE SYSTEM" ON 12/04/17, WAS ISSUED TICKET NO. OF 8733801786-008, AND WERE GIVEN THE FOLLOWING RESULTS OF THE UTILITY MARKINGS:
TICKET #8733801786-008
APPALACHIAN POWER COMPANY (AP111) - NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA.
BRISTOL VIRGINIA COMMUNICATIONS (BVIS42) - NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA.
CENTURYLINK (CTL151) - NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA.
WASHINGTON WATER (WCS261) - MARKED
LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE, BASED ON AVAILABLE SURFACE STRUCTURES, SUCH AS VALVES, MANHOLES, ETC. AND RECORD INFORMATION. VISIBLE UTILITY STRUCTURES WERE LOCATED IN ACCORDANCE WITH C/ASCE 38-02 (CONSTRUCTION INSTITUTE OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS) QUALITY LEVEL "C", WHICH IS DEFINED IN C/ASCE 38-02 AS FOLLOWS:
UTILITY QUALITY LEVEL "C": INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL "D" INFORMATION.
ADDITIONAL UNDERGROUND UTILITY FEATURES DEPICTED HEREON MAY BE BASED ON SURFACE EVIDENCE AND/OR C/ASCE STD. 38-02 QUALITY LEVEL "D", DEFINED THEREIN AS FOLLOWS:
UTILITY QUALITY LEVEL "D": INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.
SURFACE MARKINGS PROVIDED BY MISS UTILITY RESPONDERS MAY NOT CORRELATE TO C/ASCE STD. 38-02 DEFINITIONS AND QUALITY LEVEL INDICATORS FOR THOSE MARKS ARE NOT SHOWN HEREON.
48 HOURS PRIOR TO ANY EXCAVATION BEING CONDUCTED AS A PART OF THIS PROJECT, "MISS UTILITY" MUST BE NOTIFIED BY PHONE AT 1-800-552-7001, OR BY DIALING 811 IN VIRGINIA.
INVERT ELEVATIONS, AS SHOWN HEREON, ARE LISTED IN A CLOCKWISE DIRECTION FROM THE OUTLET PIPE.



- LEGEND:**
- PROPERTY LINE (APPROX)
 - ROAD / STREET RIGHT-OF-WAY
 - LINE EXTENSION
 - TRACT LINE
 - EXISTING CURB
 - EXISTING EDGE OF PAVEMENT
 - EDGE OF GRAVEL
 - OVERHEAD UTILITY LINE
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - EXISTING FENCE LINE
 - EXISTING BUILDING
 - CONCRETE AREA
 - WATER LINE PAINT MARKS
 - EXISTING SHRUBS
 - MAJOR CONTOUR LINE
 - MINOR CONTOUR LINE
 - FLOOD ZONE (APPROX)
 - EXISTING SIGN
 - PROPERTY CORNER
 - UTILITY POLE
 - ELECTRIC METER
 - WATER METER
 - MANHOLE
 - GUY WIRE
 - UTILITY CLEAN OUT
 - BENCH MARK
 - SPOT ELEVATION
 - TREE
 - TO BE REMOVED



**MCCARTY
HOLSAPLE
MCCARTY**
MHM
ARCHITECTS
& INTERIOR
DESIGNERS

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DAMASCUS TRAIL CENTER
223 W. Laurel Ave. Damascus, VA
DAMASCUS, VIRGINIA 24542

PROJECT INFORMATION
CONTRACT: SBC-00000000000000

ACTIVE DESIGN PHASE
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 RED-CHECK
 CONSTRUCTION DOCUMENTS
 CONSTRUCTION BIDDING PHASE
 CONSTRUCTION ADMINISTRATION

PROFESSIONAL ENGINEER
TREVOR M. KIMZEY
Lic. No. 036354
10/15/2019

CONSULTANT INFORMATION
GAY AND NEEL, INC.
1260 Radford Street
Christiansburg, Virginia 24073
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Fax: (540) 381-2773
Web: www.gayandneel.com

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	7/27/2018	ASSEMBLED #2

DRAWING INFORMATION
 SCALE: As Indicated
 SCALE GUIDE: 10/15/2019
 DWG ISSUED: MICHAEL G. GAY, PE
 PROJ MGR: MICHAEL G. GAY, PE
 PA/PC: TREVOR M. KIMZEY, PE
 DRAWN BY: SEC
 CHECKED BY:
 DRAWING TITLE:
DEMOLITION PLAN

KEY PLAN:

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 DRAWN BY: SEC
 CHECKED BY:
 DRAWING TITLE:
DEMOLITION PLAN

DRAWING NO:
C1-01

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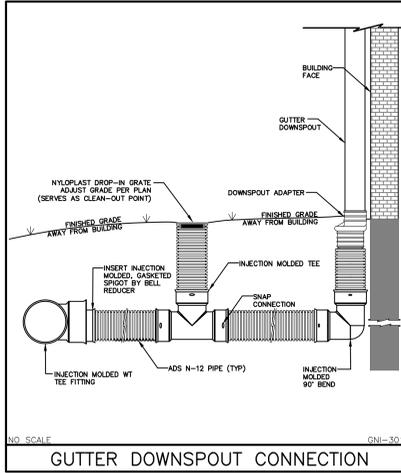
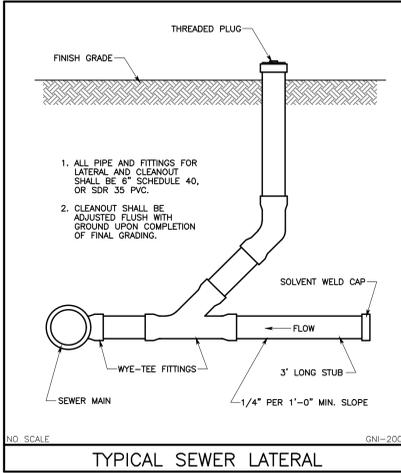
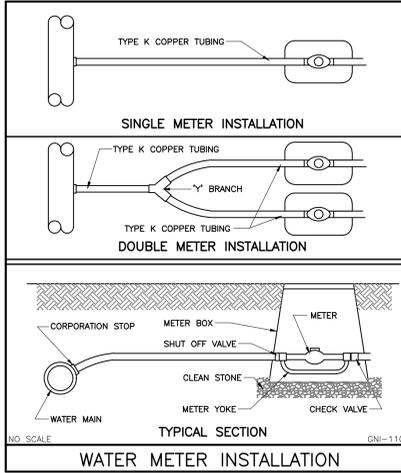
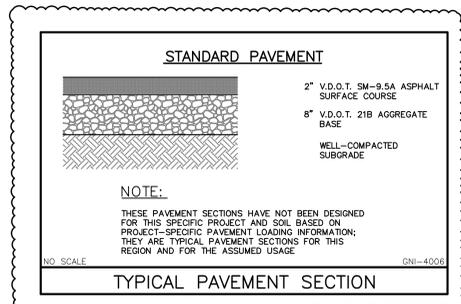
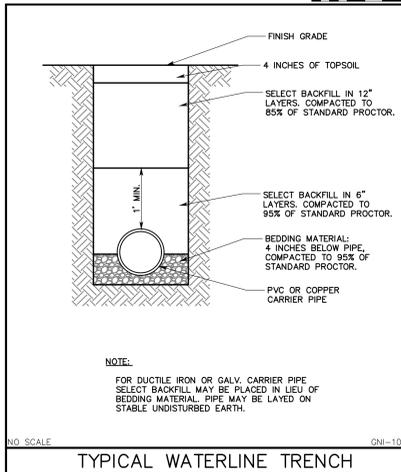
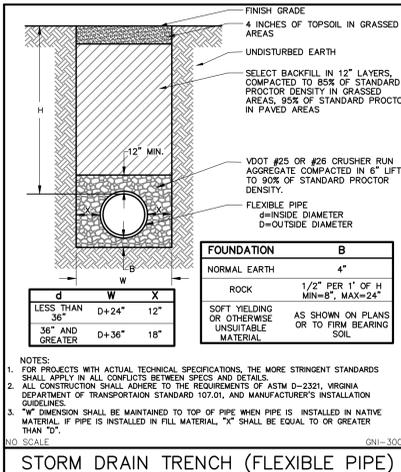
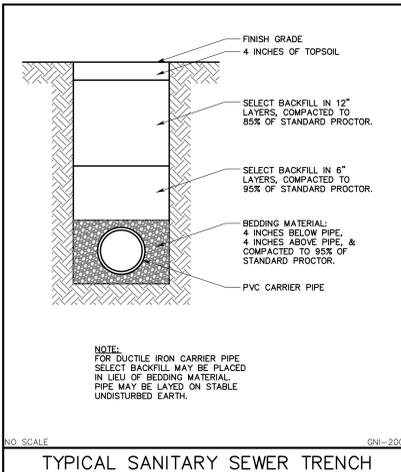
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**MCCARTY
HOLSAPLE
MCCARTY**

MHM

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ACTIVE DESIGN PHASE

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DESIGN DEVELOPMENT

REDI-CHECK

CONSTRUCTION DOCUMENTS

CONSTRUCTION BIDDING PHASE

CONSTRUCTION ADMINISTRATION

STATE OF VIRGINIA
TREVOR M. KIMZEY
Lic. No. 036354
10/15/2019
PROFESSIONAL ENGINEER

MCCARTY HOLSAPLE ARCHITECTS, INC.
DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS ONLY.
If not shown, verify current conditions with ARCHITECT.
Contractor shall check and verify all dimensions and conditions in the field.

GAY AND NEEL, INC.

ENGINEERING • LANDSCAPE ARCHITECTURE • SURVEYING

1260 Radford Street
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KEY PLAN:

REVISION INFORMATION

No.	Date	Description
1	7/27/2018	REVISION #2

DRAWING INFORMATION

SCALE: As Indicated

SCALE GUIDE: 10/15/2019

DWG ISSUED: MICHAEL G. GAY, PE

PREPARED BY: TREVOR M. KIMZEY, PE

CHECKED BY: SEC

DRAWING TITLE: SITE DETAILS

DRAWING NO: C2-02

TIME / DATE: 4/17/2018 10:41:19 AM

VESCH MINIMUM STANDARDS:

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

RESPONSE: DISTURBED AREAS WILL BE STABILIZED AS NOTED ON THESE PLANS. STABILIZED AREAS WILL BE INSPECTED WEEKLY AND AFTER SIGNIFICANT PRECIPITATION.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PROTECTION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

RESPONSE: STOCKPILES AND BORROW AREAS WILL BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES. THIS PERTAINS TO STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL TRANSPORTED OFFSITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM AND MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

RESPONSE: DISTURBED AREAS WILL BE SEEDING AS NOTED ON THESE PLANS. AN INSPECTION SCHEDULE IS INDICATED IN THE MS 1 RESPONSE.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPLOUSE LAND DISTURBANCE TAKES PLACE.

RESPONSE: ALL SEDIMENT TRAPS, PERIMETER DIKES, AND OTHER SEDIMENT TRAPPING MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBANCE UPLOUSE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

RESPONSE: ALL EARTHEN STRUCTURES SHALL BE STABILIZED IMMEDIATELY AFTER INSTALLATION.
- SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE TRAP OR BASIN.

A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.

RESPONSE: THERE IS NO SEDIMENT BASIN OR TRAP ASSOCIATED WITH THESE PLANS.

B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPOSED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL MAINTAIN THE CHANNEL IN A GOOD FORESTED CONDITION DURING A TWENTY-FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

RESPONSE: THERE ARE NO SEDIMENT BASINS ASSOCIATED WITH THESE PLANS.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

RESPONSE: CUT AND FILL SLOPES WILL BE STABILIZED IMMEDIATELY AFTER GRADING OPERATIONS AND SHALL BE PROVIDED WITH ADDITIONAL MEASURES IF EROSION BECOMES A PROBLEM.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

RESPONSE: NO CONCENTRATED RUNOFF SHALL BE ALLOWED TO FLOW DOWN GRADED SLOPES.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

RESPONSE: IF WATER SEEPS FROM A SLOPE FACE, ADDITIONAL SLOPE AND DRAINAGE PROTECTION WILL BE ADDED.
- ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

RESPONSE: ALL STORM SEWER STRUCTURES THAT WILL BE SUBJECT TO RUNOFF FROM THE PROJECT AREA WILL BE PROTECTED WITH INLET PROTECTION SO SEDIMENT-LADEN RUNOFF CANNOT ENTER THE SYSTEM WITHOUT BEING FILTERED OR TREATED TO REMOVE SEDIMENT.
- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

RESPONSE: ALL STORMWATER CONVEYANCE CHANNELS WILL BE PROPERLY SEEDING AND STABILIZED PRIOR TO BEING MADE OPERATIONAL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COTTERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

RESPONSE: THERE WILL BE NO WORK PERFORMED IN A LIVE WATERCOURSE DURING THIS PROJECT.
- WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

RESPONSE: THERE WILL BE NO WORK PERFORMED IN A LIVE WATERCOURSE DURING THIS PROJECT.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

RESPONSE: THERE WILL BE NO WORK PERFORMED IN A LIVE WATERCOURSE DURING THIS PROJECT.
- THE BED AND BANKS OF WATERCOURSES SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

RESPONSE: THERE WILL BE NO WORK PERFORMED IN A LIVE WATERCOURSE DURING THIS PROJECT.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

RESPONSE: ALL UNDERGROUND UTILITY LINES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

RESPONSE: MEASURES WILL BE USED TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO PAVED OR PUBLIC ROADS. ROAD SURFACES SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. NO STREET WASHING WILL BE ALLOWED UNTIL AFTER SEDIMENT IS REMOVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

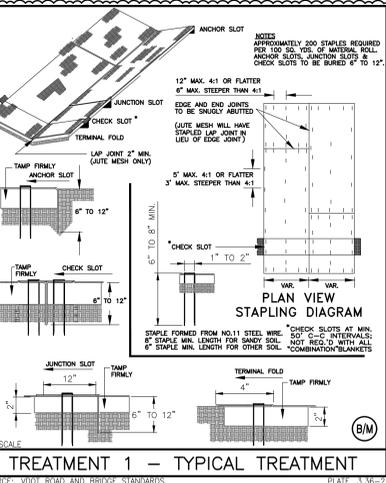
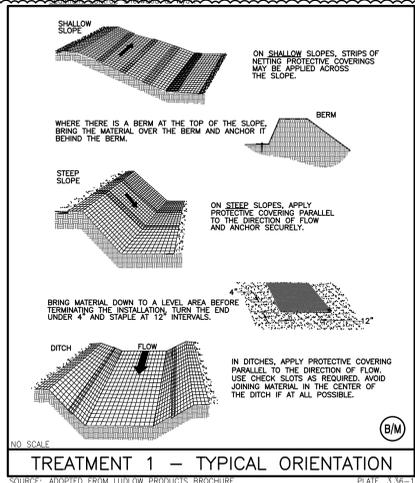
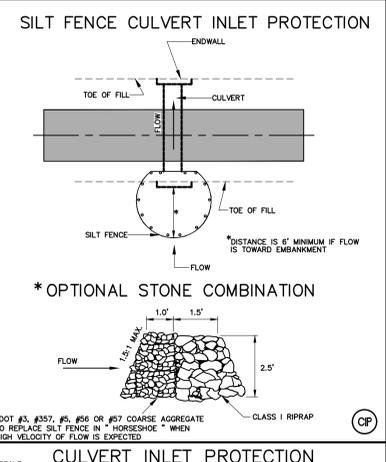
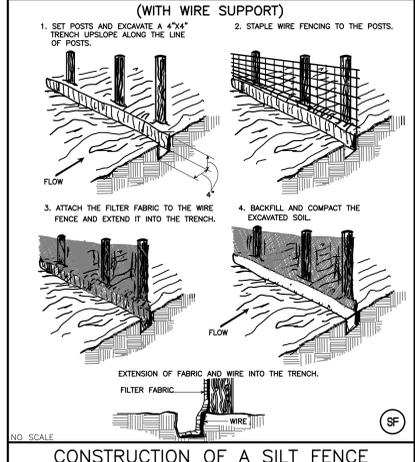
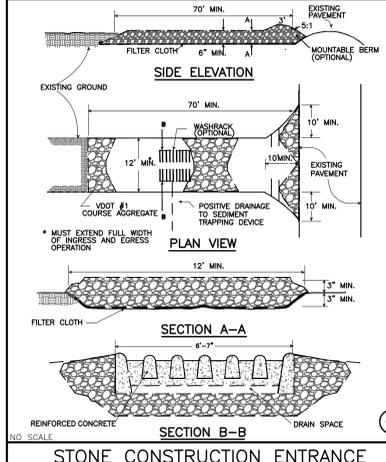
RESPONSE: ALL TEMPORARY MEASURES WILL BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION, UNLESS AUTHORIZED BY THE TOWN OF DAMASCUS. ALL TRAPPED SEDIMENT AND DISTURBED SOIL AREAS FROM REMOVAL OF MEASURE WILL BE PERMANENTLY STABILIZED.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
 B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
 1. THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION. OR NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM.
 2A. TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS; AND ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM.
 2B. TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM.
 2C. TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 (1) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR
 (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES; OR
 (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
 (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.
 D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
 E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.
 F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
 G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
 H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
 I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
 J. IN APPLYING THESE STORMWATER RUNOFF CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT AS A WHOLE SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

- K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.
- L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL BE SATISFIED BY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO:
 - DETAIL THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS
 - DETAIL AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM
 - REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIFICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO §101-562 OR 101-570 OF THE ACT.
- M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF §101-561 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§101-563.2 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH §VAC25-60-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSWMP) PERMIT REGULATIONS.
- N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN §VAC25-60-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSWMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.
- RESPONSE: THE SITE MEETS THE REQUIREMENTS OF THE ENERGY BALANCE EQUATION FOR CHANNEL PROTECTION FOR FLOOD PROTECTION, THE FLOW FROM THE PROPOSED SITE IS BELOW THE PRE-DEVELOPMENT CONDITION FLOWS FOR THE 10 YEAR STORM. REFER TO THE EROSION AND SEDIMENT CONTROL NARRATIVE FOR CALCULATIONS.

STANDARD EROSION & SEDIMENT CONTROL NOTES:

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VS 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT, ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.



TEMPORARY SEEDING MIXTURE

1 SEPTEMBER TO 15 FEBRUARY
 50/50 MIX OF ANNUAL RYEGRASS (Isolum multiflorum) & GENERAL (Winter) RYE (Single cereals)
 50-100 LB / ACRE (1-2 LB / 1000 SF)

15 FEBRUARY TO 30 APRIL
 ANNUAL RYEGRASS (Isolum multiflorum)
 60-100 LB / ACRE (2 LB / 1000 SF)

1 MAY TO 31 AUGUST
 GERMAN MILLET
 50 LB / ACRE (1 LB / 1000 SF)

LIME: PH TEST BELOW 4.2 4.2 TO 5.2 5.2 TO 6

FERTILIZER: 10-20-10 (OR EQUIVALENT NUTRIENT) @ 14 LB/1000 SF (600 LB/ACRE) LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2 TO 4 INCHES OF THE SOIL IF POSSIBLE.

MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDING AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH STANDARDS AND SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRAILABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

PERMANENT SEEDING MIXTURE

TYPE A
 15 OCTOBER TO 1 FEBRUARY
 K-31 FESCUE @ 5 LB / 1000 SF
 BORZY WINTER RYE @ 1/2 LB/1000 SF

1 FEBRUARY TO 1 JUNE
 K-31 FESCUE @ 5 LB / 1000 SF
 ANNUAL RYE @ 1/2 LB / 1000 SF

1 JUNE TO 1 SEPTEMBER
 K-31 FESCUE @ 5 LB / 1000 SF
 ANNUAL RYE @ 1/2 LB / 1000 SF

1 SEPTEMBER TO 15 OCTOBER
 K-31 FESCUE @ 5 LB / 1000 SF
 ANNUAL RYE @ 1/2 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)
 KENTUCKY 31 FESCUE @ 100 LB/AC
 RED TOP @ 2 LB/AC
 SEASONAL NURSE CROP* @ 20 LB/AC
 CROWNWET* @ 20 LB/AC

*USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:
 MARCH-MAY 15TH ANNUAL RYE
 MAY 16TH-AUG 15TH FOXTAIL MILLET
 AUG 16TH-OCT NOV-FEB WINTER RYE

**IF FLATPEA IS USED, INCREASE TO 30 LB/AC. ALL LEGUME SEED MUST BE PROPERLY INCULCATED. KEEPING LOWVEGRASS MAY ALSO BE INCLUDED IN ANY SLOPE OR LOW-MAINTENANCE MIXTURE DURING WARMER SEEDING PERIODS; AD 10-20 LB/AC IN MIXES.

LIME: 90 LB/1000 SF OF PULVERIZED AGRICULTURAL GRADE LIMESTONE (2 TONS/ACRE)

FERTILIZER: 23 LB/1000 SF OF 10-20-10 OR EQUIVALENT NUTRIENTS (1000 LB/ACRE)

MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDING AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH STANDARDS AND SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRAILABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

EROSION & SEDIMENT CONTROL MEASURES MAINTENANCE SCHEDULE

EASC SYMBOL	MAINTENANCE INSTRUCTIONS
CE	THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD OFFSITE OR ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ON VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
SF	SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC OF A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
CF	THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
TS	AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION WILL BE RE-SEEDING AS SOON AS SUCH AREAS ARE IDENTIFIED
PS	EVEN WITH CAREFUL, WELL-PLANNED SEEDING OPERATIONS, FAILURES CAN OCCUR. WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, THESE AREAS MUST BE RESEED IMMEDIATELY TO PREVENT EROSION DAMAGE. HOWEVER, IT IS EXTREMELY IMPORTANT TO DETERMINE FOR WHAT REASON GERMINATION DID NOT TAKE PLACE AND MAKE ANY CORRECTIVE ACTION NECESSARY PRIOR TO RESEEDING THE AREA.
M	ALL MULCHES AND SOIL COVERINGS SHOULD BE INSPECTED PERIODICALLY (PARTICULARLY AFTER RAINSTORMS) TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHOULD BE APPLIED. NETS AND MATS SHOULD BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, RE-INSTALL NETTING OR MATTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SILT FENCE OR DITCH. INSPECTIONS SHOULD TAKE PLACE UP UNTIL GRASSES ARE FIRMLY ESTABLISHED. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

MCCARTY HOLSAPLE MCCARTY
MHM
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 CONTACT: DAVID COLLINS, AIA, LEED AP
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 FACSIMILE: (865) 544-0022
 INTERNET: mhmc.com

DAMASCUS TRAIL CENTER
 223 W LOUISA AVE, DAMASCUS, VA
 DAMASCUS, VIRGINIA 24524

ACTIVE DESIGN PHASE
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 RED-CHECK
 CONSTRUCTION DOCUMENTS
 CONSTRUCTION BIDDING PHASE
 CONSTRUCTION ADMINISTRATION

CONSULTANT INFORMATION
 GAY AND NEEL, INC.
 1260 Radford Street
 Christiansburg, Virginia 24073
 Phone: (540) 381-6011
 Fax: (540) 381-2773
 Web: www.gayandneel.com

REVISION INFORMATION

No.	Date	Description
1	11/27/2018	ADDENDUM #2

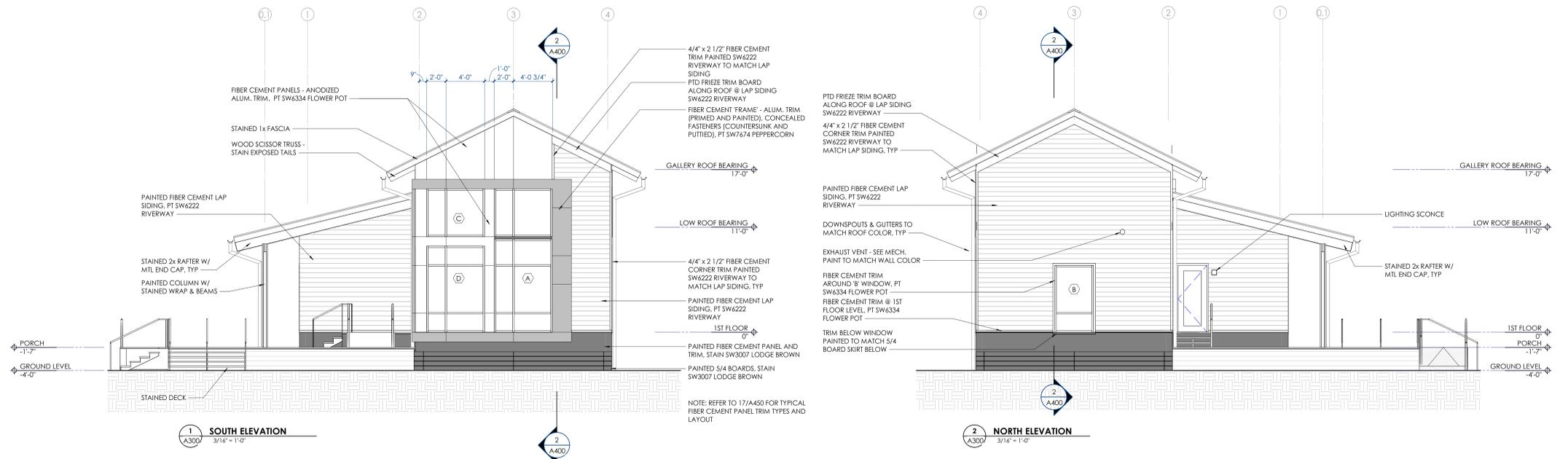
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 SCALE USED: 1/8" = 1'-0"
 DWG ISSUED BY: 10/15/2019
 PLOT INCH: MICHAEL G. GAY, P.E.
 PLOT PLOT: TREVOR N. KIMZEY, P.E.
 DRAWN BY: SEC
 CHECKED BY:
 DRAWING TITLE:
EROSION AND SEDIMENT CONTROL DETAILS
 DRAWING NO: **C5-02**

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BINDING EDGE

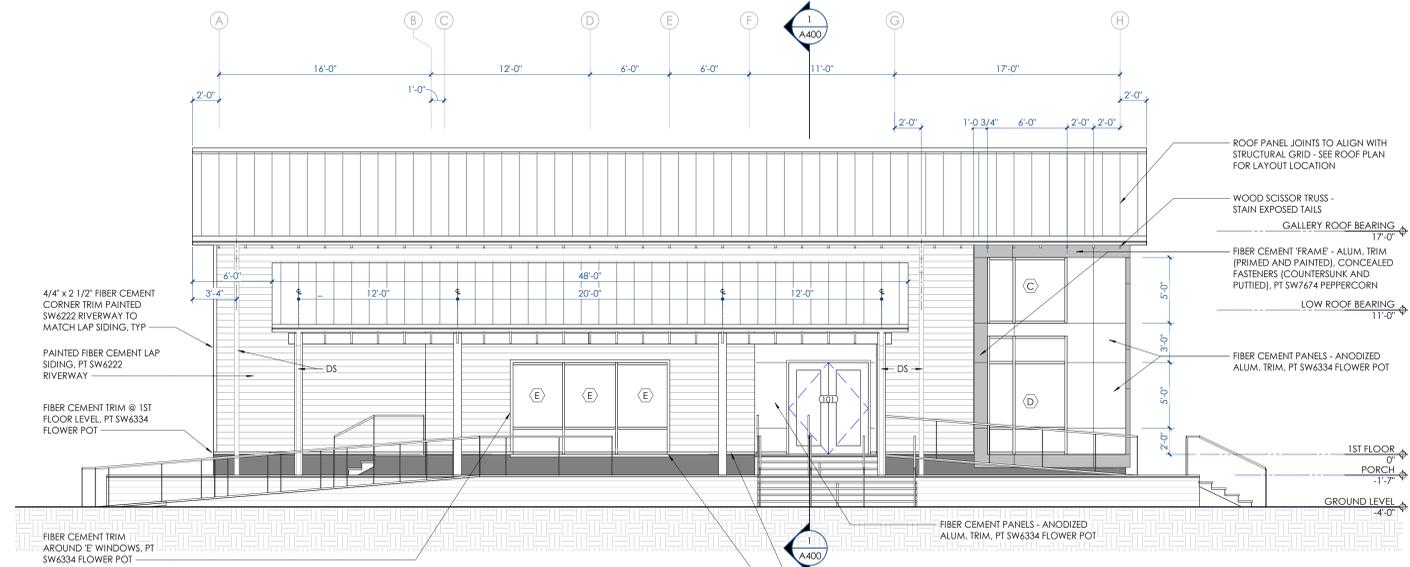
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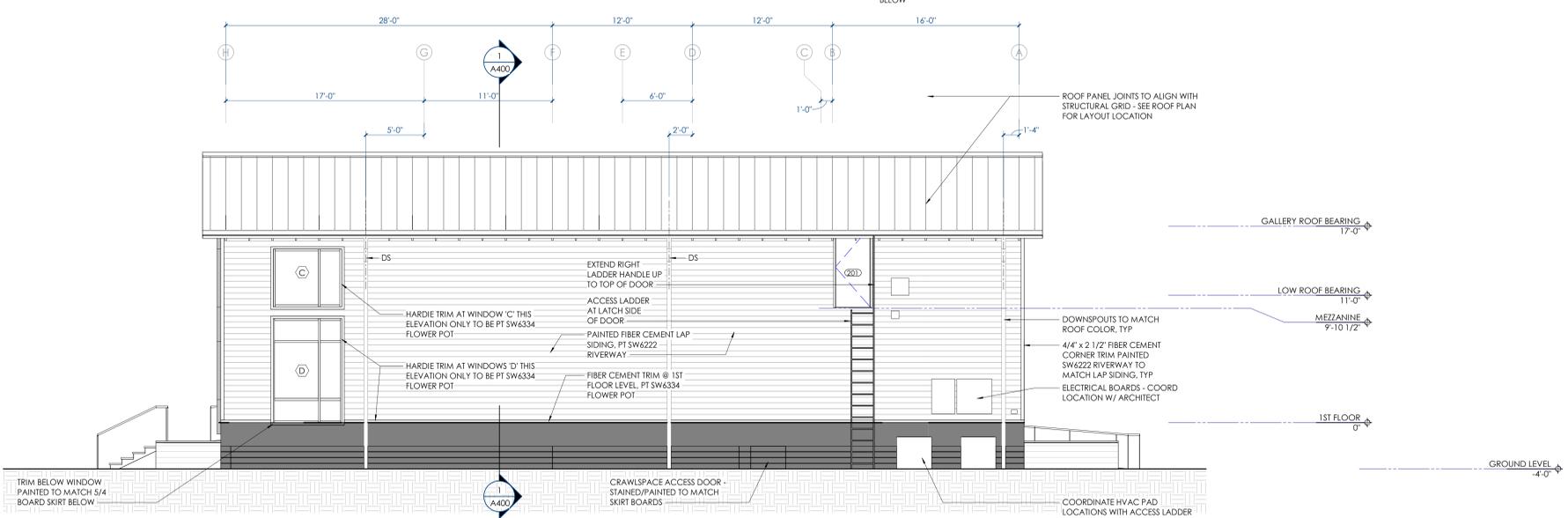


1 SOUTH ELEVATION
3/16" = 1'-0"

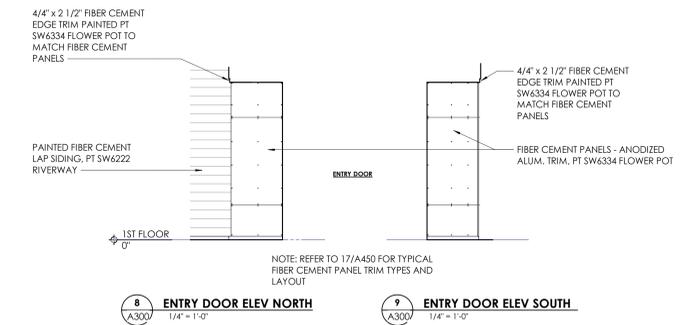
2 NORTH ELEVATION
3/16" = 1'-0"



3 WEST ELEVATION
3/16" = 1'-0"



4 EAST ELEVATION
3/16" = 1'-0"



8 ENTRY DOOR ELEV NORTH
1/4" = 1'-0"

9 ENTRY DOOR ELEV SOUTH
1/4" = 1'-0"

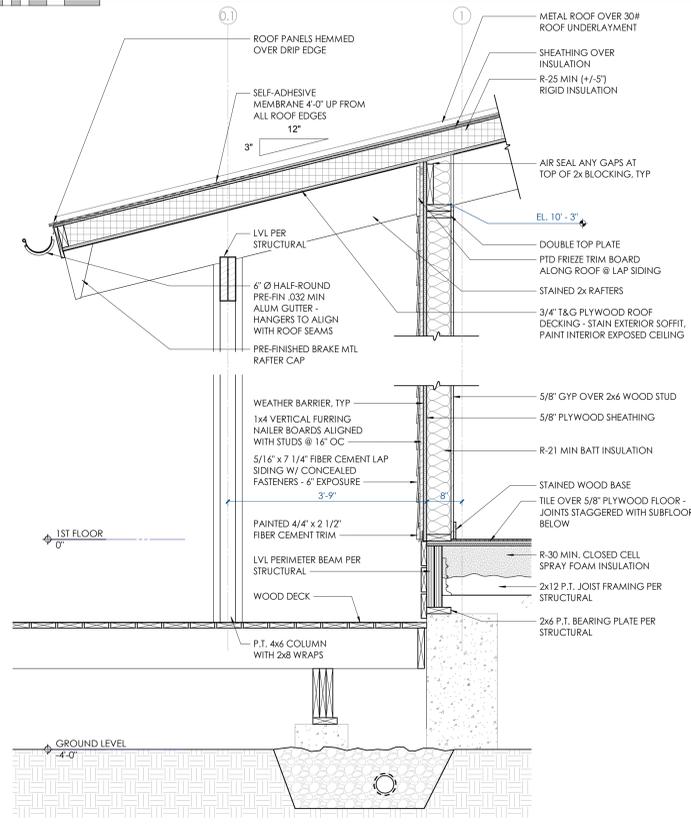


NO.	Date	Description
1	7/27/18	ADD #2

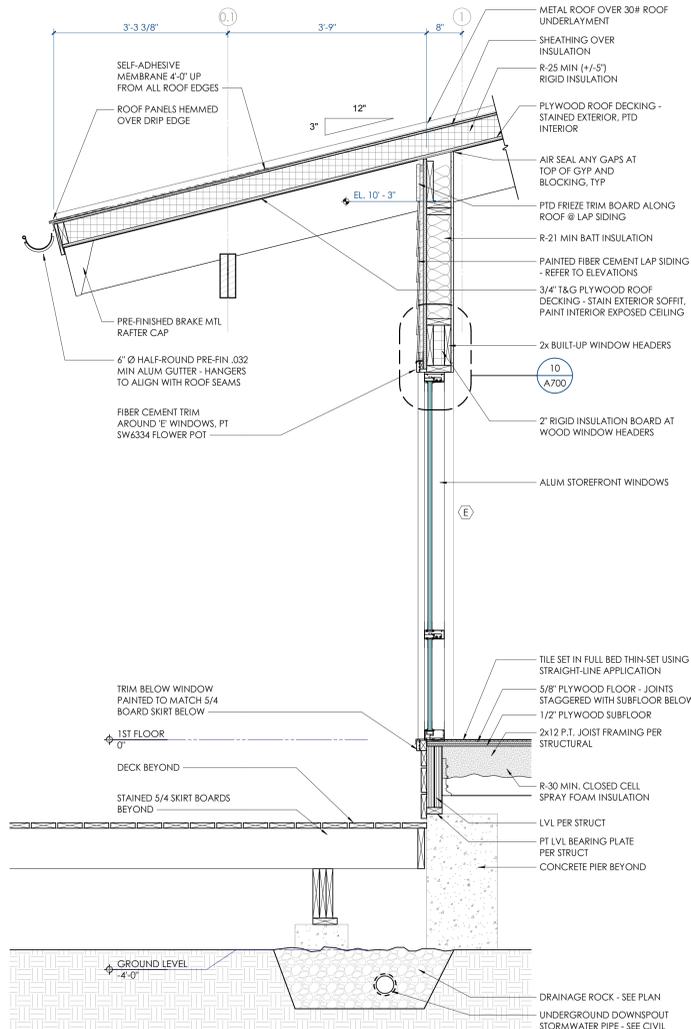
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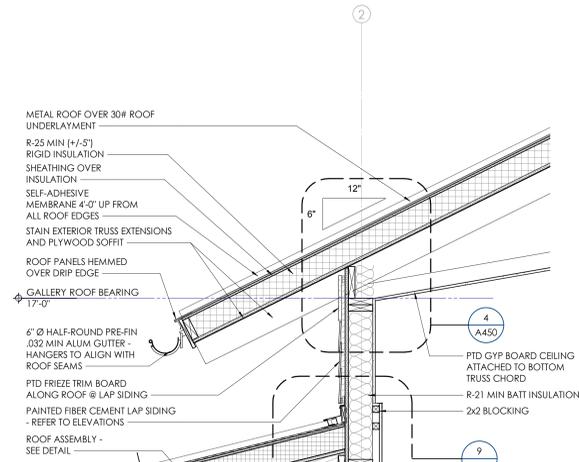
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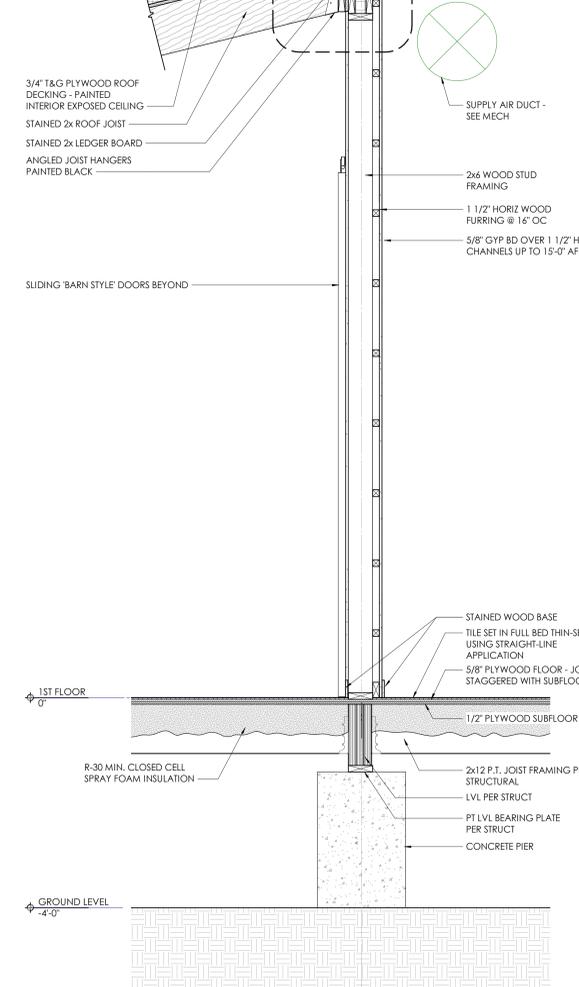
EXTERIOR WALL SECTION



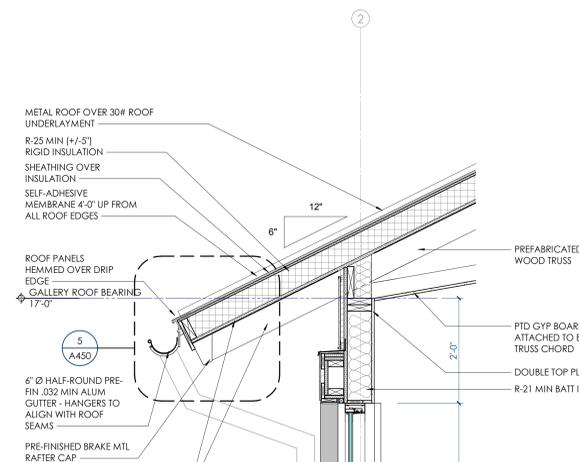
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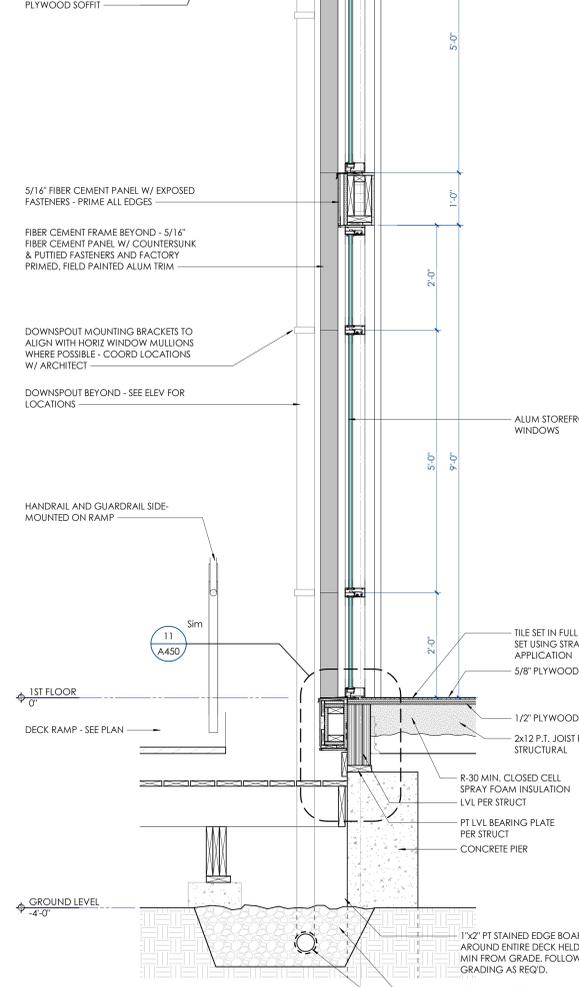
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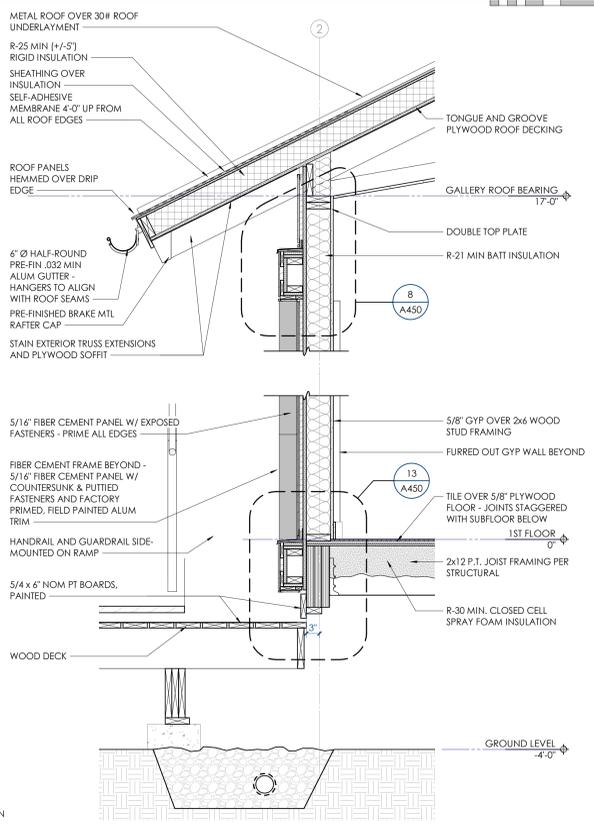
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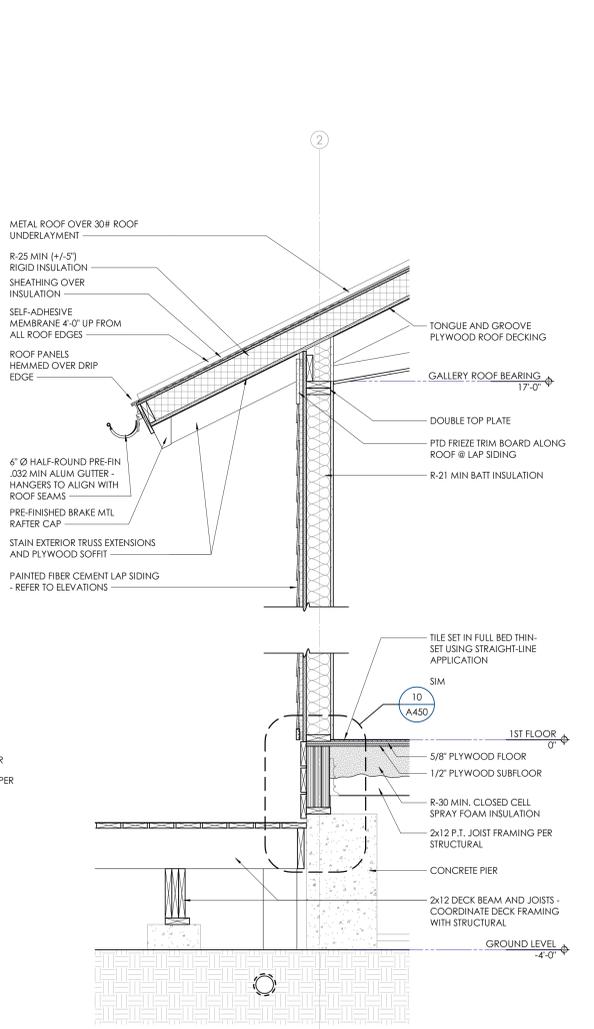
EXTERIOR WALL SECTION



EXTERIOR WALL SECTION



EXTERIOR WALL SECTION



EXTERIOR WALL SECTION

NOTE: ALL LAP SIDING TO COORDINATE LAP LOCATIONS/HEIGHTS AROUND BUILDING. 1ST COURSE LAP TO START AT +2-1/2" ABOVE 1ST FLOOR LEVEL. ABOVE FIBER CEMENT TRIM BASE. FOLLOW ALL MFR RECOMMENDATIONS FOR STAGGERED JOINTING AND FLASHING BEHIND BUTT JOINTS.



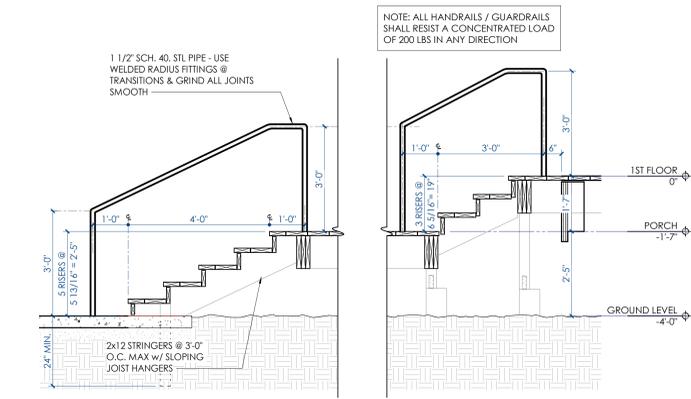
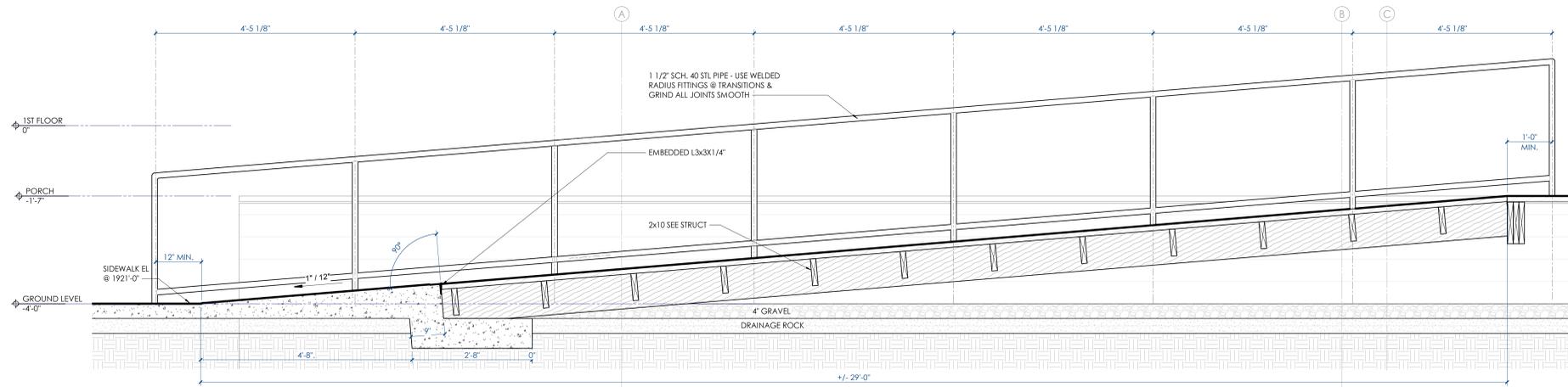
No.	Date	Description

SCALE:	3/4" = 1'-0"
SCALE GUIDE:	
DWG ISSUED:	15 OCT 2019
PRJ MGR:	D. COLLINS
PA / PC:	J. THOMAS
DRAWN BY:	B. ARCHER
CHECKED BY:	B. RAINES
DRAWING TITLE:	

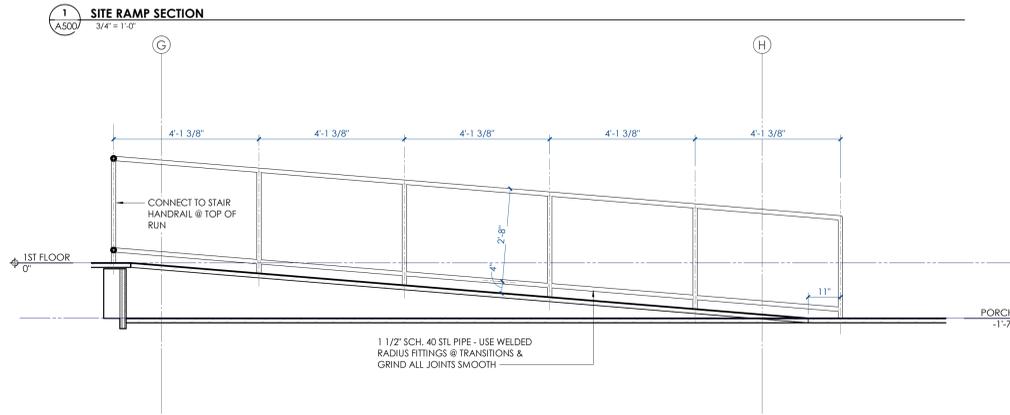
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BINDING EDGE

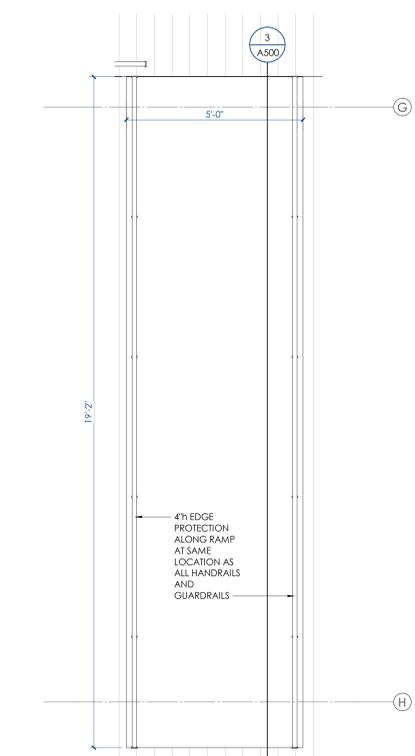
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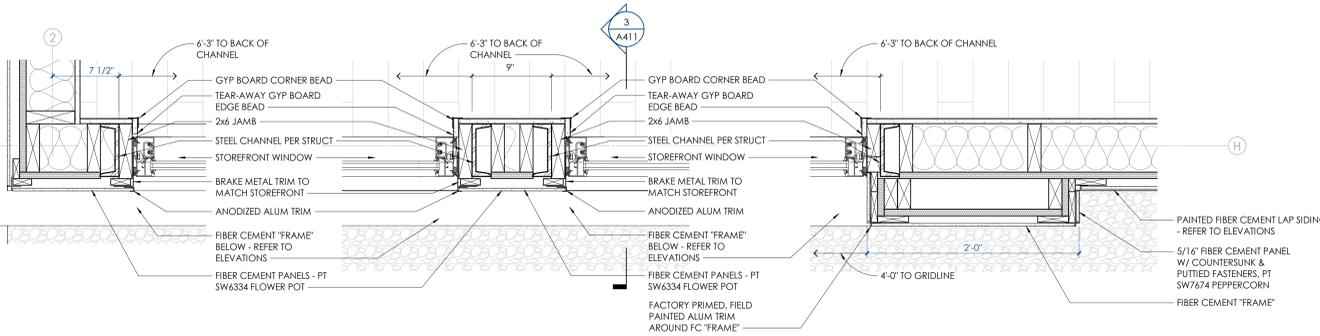
2 STAIR/HANDRAIL DTL. 1/2" = 1'-0"



3 DECK RAMP SECTION 1/2" = 1'-0"



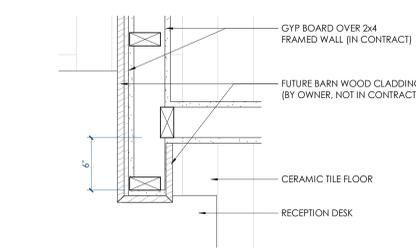
4 RAMP ENLARGED PLAN 1/2" = 1'-0"



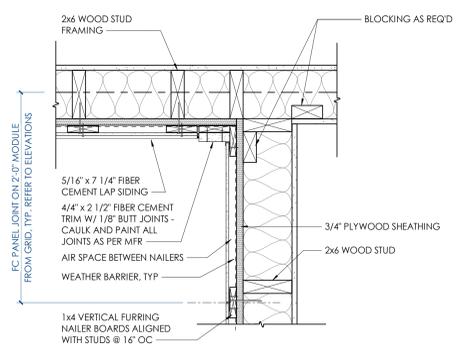
5 FIBER CEMENT 'FRAME' - PLAN DETAIL 1 1 1/2" = 1'-0"

6 FIBER CEMENT 'FRAME' - PLAN DETAIL 2 1 1/2" = 1'-0"

7 FIBER CEMENT 'FRAME' - PLAN DETAIL 3 1 1/2" = 1'-0"

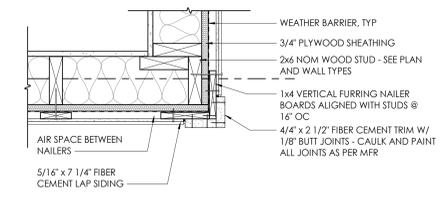


8 WOOD-CLAD WALL AND RECEPTION DESK 1 1/2" = 1'-0"



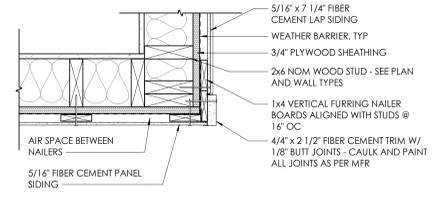
LAP TO PANEL - INSIDE CORNER

10 DETAIL AT FIBER CEMENT - @ INSIDE CORNER LAP TO PANEL 1 1/2" = 1'-0"



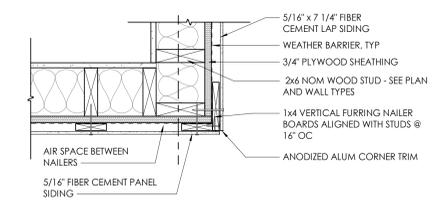
LAP TO LAP - OUTSIDE CORNER @ TYPICAL

11 DETAIL AT FIBER CEMENT - @ OUTSIDE CORNER LAP TO LAP 1 1/2" = 1'-0"



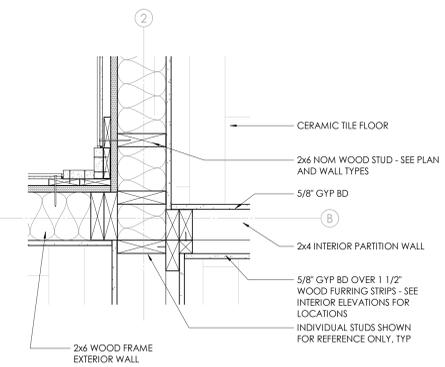
PANEL TO LAP - OUTSIDE CORNER @ FRONT DOOR

12 DETAIL AT FIBER CEMENT - @ OUTSIDE CORNER LAP TO PANEL 1 1/2" = 1'-0"



PANEL TO PANEL - OUTSIDE CORNER @ FRONT FACADE

13 DETAIL AT FIBER CEMENT - @ OUTSIDE CORNER PANEL TO PANEL 1 1/2" = 1'-0"



14 PLAN DETAIL AT GRIDS 2-B 1 1/2" = 1'-0"

MCCARTY HOLSAPLE MCCARTY
MHM
ARCHITECTS & INTERIOR DESIGNERS

17063

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PROJECT INFORMATION
CONTRACT: SBC-00000000000000

DAMASCUS TRAIL CENTER
223 W Laurel Ave, Damascus, VA
DAMASCUS, VIRGINIA 24236

ACTIVE DESIGN PHASE
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 REDL-CHECK
 CONSTRUCTION DOCUMENTS
 CONSTRUCTION BIDDING PHASE
 CONSTRUCTION ADMINISTRATION



MCCarty Holsaple McCarty, Inc.
Do NOT scale drawings, use given dimensions only.
A not shown, verify correct dimension with PROJECT. Contractor shall check and verify all dimensions and conditions of job site.

CONSULTANT INFORMATION

CODES OFFICIAL REVIEW

KEY PLAN

REVISION INFORMATION

No.	Date	Description

DRAWING INFORMATION

SCALE: As indicated
SCALE GUIDE:
DWG ISSUED: 15 OCT 2019
FR./MGR: D. COLLINS
PA./P.C.: J. THOMAS
DRAWN BY: B. ARCHER
CHECKED BY: B. RAINES
DRAWING TITLE:

PLAN DETAILS

DRAWING NO: A500

TIME / DATE: 10/18/2019 2:13:32 PM

BINDING EDGE

BINDING EDGE

BINDING EDGE

FINISH SCHEDULE

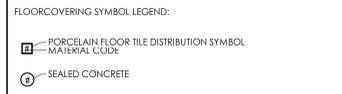
Table with columns: ROOM INFORMATION (NUMBER, NAME), FLOOR, WALL BASE, WALL FINISHES (NORTH, EAST, SOUTH, WEST), MILLWORK (HORZ, VERT), CLG, and NOTES. Lists finishes for rooms 101-109.

FINISH LEGEND

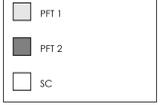
Table with columns: KEY NAME, MATERIAL, SPECIFICATION, LAST REVISION. Lists abbreviations, floor finishes, base/trim finishes, wall finishes, millwork finishes, miscellaneous, and miscellaneous items.

FLOOR FINISH SYMBOL LEGEND

FLOOR COVERING MATERIALS ARE IDENTIFIED ON BOTH THE ROOM FINISH SCHEDULE AND ON THE ATTACHED FLOOR COVERING DISTRIBUTION PLAN. THE COMPLEXITY OF FINISHES/MATERIALS ARE CLARIFIED ON THE DISTRIBUTION PLANS BY ONE OF THE SYMBOLS NOTED BELOW:

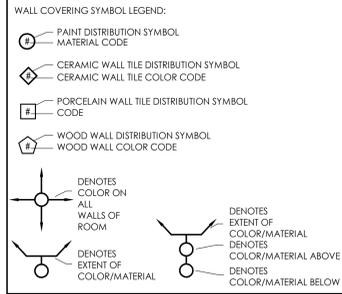


FINISH PLAN LEGEND

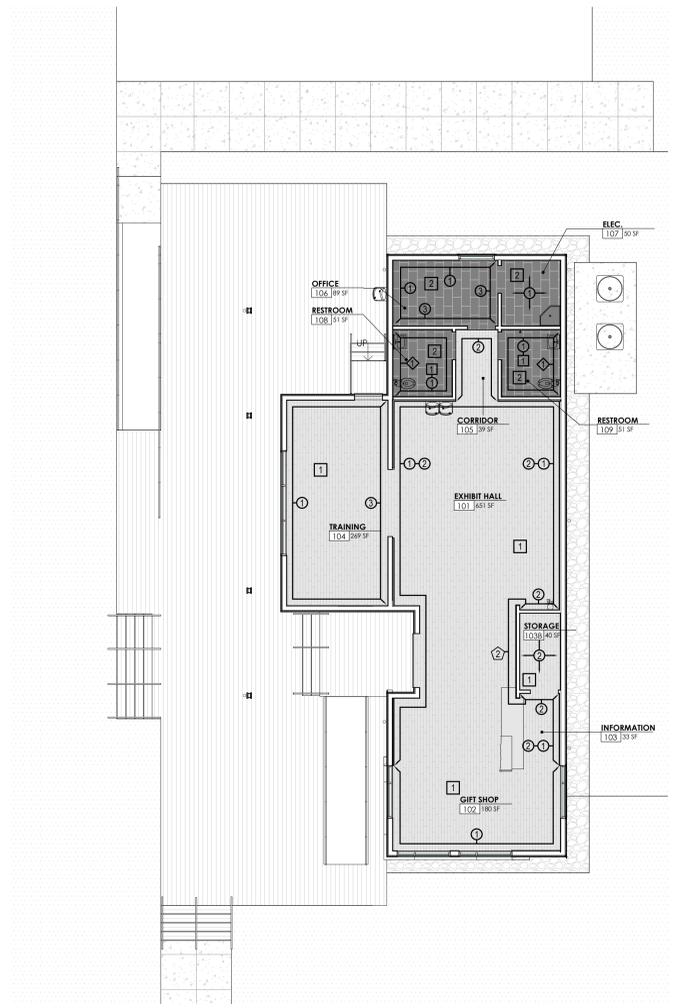


WALL FINISH SYMBOL LEGEND

WALL COVERING MATERIALS ARE IDENTIFIED ON BOTH THE ROOM FINISH SCHEDULE AND ON THE ATTACHED WALL COVERING DISTRIBUTION PLAN. THE COMPLEXITY OF FINISHES/MATERIALS ARE CLARIFIED ON THE DISTRIBUTION PLANS BY ONE OF THE SYMBOLS NOTED BELOW:



- FINISH NOTES:
1. FINISH SCHEDULE ASSUMES PLAN NORTH.
2. SEE FLOOR & WALL FINISH PLANS FOR MATERIAL LOCATIONS.
3. ALL SAMPLES TO BE SUBMITTED TO ARCHITECT IN DUPLICATE FOR APPROVAL.
4. SEE INTERIOR ELEVATIONS FOR PAINT COLOR LOCATIONS.



17063
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PROJECT INFORMATION
DAMASCUS TRAIL CENTER
223 W Laurel Ave, Damascus, VA
DAMASCUS, VIRGINIA 24236

ACTIVE DESIGN PHASE
[] SCHEMATIC DESIGN
[] DESIGN DEVELOPMENT
[] RED-CHECK
[] CONSTRUCTION DOCUMENTS
[] CONSTRUCTION BIDDING PHASE
[] CONSTRUCTION ADMINISTRATION

CONSULTANT INFORMATION

CODES OFFICIAL REVIEW

KEY PLAN:

REVISION INFORMATION

Table with columns: No., Date, Description. Includes revision history.

DRAWING INFORMATION
SCALE: As indicated
SCALE GUIDE:
DWG ISSUED: 15 OCT 2019
FR./MGR: D. COLLINS
PA./PC: J. THOMAS
DRAWN BY: T. ODOM
CHECKED BY: B. RAINES

FINISH SCHEDULES & FINISH PLAN

DRAWING NO: A900

2015 IBC STRUCTURAL SPECIAL INSPECTIONS

Table with columns: MATERIAL / ACTIVITY, TYPE OF INSPECTION, THIS PROJ.?, REFERENCE, INSPECTION / TEST BY*, MATERIAL / ACTIVITY, TYPE OF INSPECTION, THIS PROJ.?, REFERENCE, INSPECTION / TEST BY*. Includes sections for Foundations, Concrete Construction, Masonry Construction, Steel Construction, Seismic Force Resistance Inspections, and Seismic Resistance Testing.

STRUCTURAL SPECIAL INSPECTION NOTES:

- 1. Fabricator, supplier, ready-mixed plant or other production plant shall provide certificates from an approved independent inspection, testing or quality assurance agency attesting that the plant...
a. The plant is a certified production plant meeting the quality assurance standards of recognized national standards organization for product.
b. The plant maintains an agreement with an independent inspection or quality assurance agency to conduct periodic in-plant quality assurance inspections...

PREFABRICATED WOOD TRUSS:

- A. DESIGN, DETAILING, FABRICATION AND ERECTION SHALL COMPLY WITH:
1. TPI 1, NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION
2. TPI DSB, RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES
3. TPI HIS, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES...

Table with columns: LOCATION, MATERIAL SUPPORTED, LIVE LIMIT, LATERAL PRESSURE LIMIT, DEAD+LIVE LIMIT. Includes rows for ROOF, PLASTER, GYPSUM, STUCCO, NON-PLASTER (SUSPENDED), NO CEILING.

REFERENCE IBC TABLE 1604.3 (NOTE F), FOR COMPONENTS & CLADDING WIND LOAD DEFLECTIONS. MODIFY NOTE F, FOR THIS PROJECT, WHERE THE MAXIMUM REDUCTION IS TAKEN AS 0.7W.

LOADING - REFER TO LOADING INFORMATION IN STRUCTURAL NOTES

- D. PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT - WHERE REQUIRED ON THE TRUSS DESIGN DRAWINGS, COMPLY WITH IBC SECTION 2303.4.1.2 TRUSS MANUFACTURER SHALL PROVIDE INFORMATION, HARDWARE AND ACCESSORIES REQUIRED FOR TRUSS BRACING AND CONNECTIONS.
E. WOOD TRUSS FRAMING MATERIALS SHALL BE:
1. WOOD MATERIAL:
a. MINIMUM NO. 2 GRADE SOUTHERN PINE PER AGENCY CERTIFIED BY ALSIC
b. SURFACE DRY AT 19 PERCENT MAXIMUM MOISTURE CONTENT
2. METAL FRAMING ANCHORS AND ACCESSORIES:
a. GALVANIZED G60
b. ASTM A 663, OR HS/LAS TYPE A OR B
3. BOLTS/NUTS: ASTM A307 / ASTM A563
4. LAG SCREWS: ANSII/ASME STANDARD B18.2.1
5. WOOD SCREWS: ASME B18.6.1
6. NAILS: ASTM F1667
F. WOOD CONNECTORS - BASIS OF DESIGN
1. ALL WOOD CONNECTORS TO BE MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL. TO BE CONSIDERED EQUAL, THE CONNECTOR MUST BE CONFIGURED SIMILAR AND HAVE THE SAME OVERALL STRUCTURAL QUALITIES AS THE SIMPSON EQUIVALENT MODEL.
G. ALIGN WEBS OF TRUSSES, CONTRACTOR TO COORDINATE ANY UTILITIES IN TRUSSES WITH TRUSS SUPPLIER

STRUCTURAL NOTES:

STRUCTURAL WOOD:

- A. FASTENING:
1. AS INDICATED ON PLANS, SECTIONS AND DETAILS WITH MINIMUM OF:
a. IBC 2015 TABLE 2304.10.1
B. MISCELLANEOUS MATERIALS SHALL COMPLY WITH:
1. STEEL PLATES: ASTM A36
a. WELDING: E70XX ELECTRODES
2. BOLTS / NUTS: ASTM A307 / ASTM A563
3. LAG SCREWS: ANSII / ASME STANDARD B18.2.1
4. WOOD SCREWS: ASME B18.6.1 GALVANIZED
5. NAILS: ASTM F1667 GALVANIZED
6. ALL PRESSURE TREATED LUMBER FASTENERS: AISI/ASTM GRADE 316 / 305 / 304 STAINLESS
7. CONNECTORS TO MASONRY OR CONCRETE:
a. RED HEAD: TAPCON
b. HILT: KWIK-CON II
c. SIMPSON: TITEN 2
C. METAL FRAMING CONNECTORS AND ACCESSORIES:
1. STEEL SHEET GALVANIZED G60: ASTM A 663 OR HS/LAS TYPE A OR B
a. PRESSURE TREATED WOOD: STEEL SHEET GALVANIZED G185: ASTM A 663
2. SAW WOOD CONNECTION SCHEDULE
D. SAWN LUMBER:
1. DEPT. OF COMMERCE (DOC) VOLUNTARY PRODUCT STANDARD PS 20 AMERICAN SOFTWOOD LUMBER STANDARD
2. AMERICAN WOOD COUNCIL (AWC):
a. ANSI/APA NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
b. NATIONAL DESIGN SPECIFICATION SUPPLEMENT
c. AWC SDPWS SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC
3. GRADE STAMP ALL LUMBER OR PROVIDE WRITTEN CONFIRMATION OF GRADE AND COMPLIANCE WITH THESE REQUIREMENTS:
a. CONCERL STAMPS OR PROVIDE NON-STAMPED MATERIAL FOR EXPOSED LUMBER
4. GRADE: NO. 2 (MIN.) SOUTHERN PINE (SP) PER AGENCY CERTIFIED BY AMERICAN LUMBER STANDARD COMMITTEE (ALSC)
5. MOISTURE CONTENT: SURFACE DRY AT (19) PERCENT MAXIMUM
E. WOOD STRUCTURAL PANELS:
1. DEPT. OF COMMERCE (DOC) VOLUNTARY PRODUCT STANDARD PS 1 STRUCTURAL PLYWOOD
2. DEPT. OF COMMERCE (DOC) VOLUNTARY PERFORMANCE STANDARD PS 2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE WOOD PANELS"
3. APA PSD PANEL DESIGN SPECIFICATION AND SUPPLEMENTS
4. AS DESCRIBED AND SPECIFIED IN IBC 2303.1.5
5. SHALL BE INSTALLED CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
6. ALL PANEL JOINTS SHALL OCCUR OVER FRAMING.
7. PROVIDE EDGE SUPPORT WHERE INDICATED ON DRAWINGS OR AS RECOMMENDED BY ABOVE REFERENCES.
8. ROOF SHEATHING:
a. PLYWOOD: 240
b. SPAN RATING: S-3
c. GRADE STRESS LEVEL: S-3
d. SPECIES GROUP: 4
e. EXPOSURE CLASSIFICATION: EXTERIOR
f. THICKNESS: 3/4-INCH THICK
g. TONGUE & GROVE
h. ATTACHMENT:
i. PER IBC TABLE 2304.10.1
9. FLOOR SHEATHING:
a. PLYWOOD: 32/16
b. SPAN RATING: S-3
c. GRADE STRESS LEVEL: S-3
d. SPECIES GROUP: 4
e. EXPOSURE CLASSIFICATION: EXTERIOR
f. THICKNESS: 5/8-INCH THICK
g. TONGUE & GROVE
h. ATTACHMENT:
i. GLUE AND USE SPIRAL SHANK NAILS
ii. PER IBC TABLE 2304.10.1
10. WALL SHEATHING:
a. PLYWOOD: 240
b. SPAN RATING: S-3
c. GRADE STRESS LEVEL: S-3
d. SPECIES GROUP: 4
e. EXPOSURE CLASSIFICATION: EXTERIOR
f. THICKNESS: 1/2 IN.
g. ATTACHMENT:
i. PER IBC TABLE 2304.10.1
F. LAMINATED VENEER LUMBER (LVL)
1. ASTM D 5456 STANDARD SPECIFICATION FOR EVALUATION OF STRUCTURAL COMPOSITE LUMBER PRODUCTS
G. STRUCTURAL INSULATED PANELS (SIP)
1. APA PLYWOOD DESIGN SPECIFICATION SUPPLEMENT 4 - DESIGN & FABRICATION OF PLYWOOD SANDWICH PANELS.
2. PANEL DESIGN IS BASED UPON R-CONTROL PRODUCTS MANUFACTURED BY AFM CORPORATION (WWW.R-CONTROL.COM). SUBSTITUTE PRODUCTS MUST MEET OR EXCEED R-CONTROL PANEL PRODUCT PERFORMANCE SPECIFICATIONS.
3. PROVIDE SIP'S CAPABLE OF WITHSTANDING DESIGN LOADS INCLUDING DEAD LOAD, LIVE LOADS, WIND LOADS AND SEISMIC LOADS AS INDICATED ON THE PLANS.
4. PANEL DEPTH: 6 1/2 IN.
5. R-CONTROL TYPICAL SPLINE CONNECTION DETAIL: 102
6. ROOF PANELS: CONNECT TO SUPPORTS USING R-CONTROL SCREWS AT 8 IN. ON CENTER AND 6 IN. ON CENTER AT BOUNDARIES. COMPLY WITH REQUIREMENTS OF R-CONTROL LOAD DESIGN CHART #7 FOR ADDITIONAL INSTALLATION REQUIREMENTS.
7. DIAPHRAGM BOUNDARY ELEMENTS MUST CONSIST OF FULL-DEPTH, SOLID SAWN LUMBER, 2 IN. MINIMUM NOMINAL WIDTH, MIN. SPECIFIC GRAVITY OF 0.50, INSERTED IN SIP CORE, CONTINUOUS ACROSS PANEL JOINTS.
8. UNLESS SHOWN OTHERWISE, DIAPHRAGM BOUNDARY ELEMENTS MUST CONSIST OF FULL-DEPTH, SOLID SAWN LUMBER, 2 IN. MINIMUM NOMINAL WIDTH, MIN. SPECIFIC GRAVITY OF 0.50, INSERTED IN SIP CORE, CONTINUOUS ACROSS PANEL JOINTS.
9. SHOP DRAWINGS CLEARLY INDICATING CONNECTIONS AND MATERIALS TO BE USED SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
H. LATERAL SUPPORT FOR FLOOR AND ROOF FRAMING (2015 IBC 2308.4.6): WHERE NOMINAL DEPTH TO THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6:1, THERE SHALL BE ONE LINE OF BRIDGING FOR EACH 8 FT. OF SPAN. BRIDGING SHALL CONSIST OF NOT LESS THAN 1 IN. X 3 IN. LUMBER, DOUBLE NAILED AT EACH END, OF EQUIVALENT METAL BRACING OF EQUAL RIGIDITY OR FULL DEPTH BLOCKING.
I. WOOD FRAME IS DESIGNED AS A NON-SELF SUPPORTING SYSTEM. CONTRACTOR SHALL ADEQUATELY BRACE FRAME (FOR FULL WIND LOADS) UNTIL ROOF SHEATHING, SHEAR WALLS AND CONNECTORS HAVE BEEN COMPLETELY INSTALLED AND ACCEPTED. TEMPORARY BRACING SHALL BE DETAILED SO AS NOT TO INTERFERE WITH ANY OTHER TRADES.
J. DO NOT CUT OR NOTCH BUILT UP OR SOLID WOOD COLLUMNS, POSTS, JACK OR KING STUDS, LINTELS, GIRDERS OR OTHER KEY STRUCTURAL ELEMENTS. FOR NOTCHES OR HOLES IN OTHER ELEMENTS, REFER TO THE WOOD SECTION OF THE BUILDING CODE FOR LIMITATIONS (IBC 2015 2308).
1. OPENINGS IN ENGINEERED WOOD PRODUCTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
K. PRESERVATIVE TREATMENT - PER AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) U1 PER TABLE 2-1 SERVICE CONDITIONS FOR USE CATEGORY DESIGNATIONS:
1. ABOVE GROUND - PROTECTED: UC3A SILL PLATES
2. ABOVE GROUND - EXPOSED: UC3B DECKING, RAILS
3. GROUND CONTACT - GENERAL USE: UC4A DECK FRAMING, POSTS
4. GROUND CONTACT - HEAVY DUTY: UC4B
TYPICAL APPLICATIONS PROVIDED ABOVE ARE REPRESENTATIVE BUT NOT EXHAUSTIVE. USE APPROPRIATE USE CATEGORY FOR VARIOUS INSTALLATIONS PER TABLE 2-1.
5. PROVIDE AWPA VERIFICATION FOR MATERIALS TO BE USED.
a. CONCERL STAMPS OR PROVIDE NON-STAMPED MATERIAL FOR EXPOSED LUMBER.
6. KILN-DRY LUMBER AFTER PRESERVATIVE TREATMENT TO 19 PERCENT MAXIMUM MOISTURE CONTENT.

BINDING EDGE

BINDING EDGE

BINDING EDGE

MCCARTY HOLSPALE MCCARTY
MHM ARCHITECTS & INTERIOR DESIGNERS

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[] CONSTRUCTION DOCUMENTS
[] CONSTRUCTION BIDDING PHASE
[] CONSTRUCTION ADMINISTRATION

Professional Engineer Seal for Preston T. Pionk, Lic. No. 058124, dated 10-15-19.

PROSIM ENGINEERING, LLC
what we do matters
100 SOUTH BETH ST. MARION, VA 24354 276.782.8977

CODES OFFICIAL REVIEW

REVISION INFORMATION

Table with columns: No., Date, Description. Includes a section for DRAWING INFORMATION with fields for SCALE, SCALE GUIDE, DATE ISSUED, FR./MGR., PA./P.C., DRAWN BY, CHECKED BY, and DRAWING TITLE.

SPECIAL INSPECTIONS AND STRUCTURAL NOTES
DRAWING NO: S0.1

BINDING EDGE

BINDING EDGE

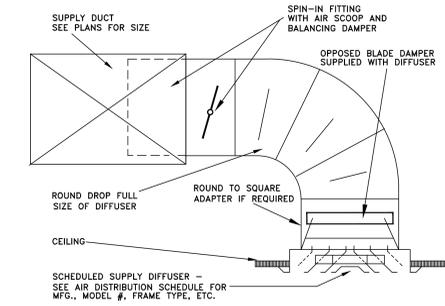
BINDING EDGE

H.V.A.C. LEGEND

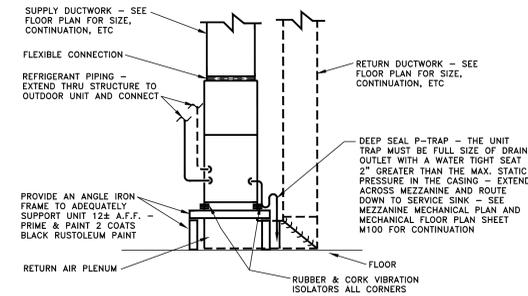
- SUPPLY DUCTWORK WITH 2" EXTERNAL INSULATION
- RETURN/RELIEF DUCTWORK WITH 2" EXTERNAL INSULATION
- FLEXIBLE DUCTWORK EQUAL TO GENFLEX 1L-1
- ROUND DUCTWORK WITH 2" EXTERNAL INSULATION
- FRESH AIR DUCTWORK WITH 2" EXTERNAL INSULATION
- ROOM THERMOSTAT - SEE CONTROL SPECIFICATION
- H.V.A.C. UNIT - SEE SCHEDULE AND DETAILS
- AIR DISTRIBUTION OUTLET - SEE SCHEDULE
- EXHAUST FAN - SEE SCHEDULE AND DETAIL
- S.F. SPIN-IN FITTING WITH AIR SCOOP
- B.D. BALANCING DAMPER - SEE DETAIL
- DSD DUCT MOUNTED SMOKE DETECTOR - TIE INTO H.V.A.C. UNIT FAN CIRCUIT FOR EMERGENCY SHUT DOWN CONTROL

H.V.A.C. EQUIPMENT SCHEDULE			
UNIT DESIGNATION	①	②	
TYPE INDOOR UNIT	SPLIT SYSTEM HEAT PUMP	SPLIT SYSTEM HEAT PUMP	
MANUFACTURER	CARRIER	CARRIER	
MODEL #	F24DMF048	F24DMF048	
HEATER KW	15 KW @ 240V/1#	20 KW @ 240V/1#	
MOTOR HP	3/4 H.P.	3/4 H.P.	
CFM	1600	1600	
E.S.P.	.50" AFTER WET COIL	.50" AFTER WET COIL	
VOLTAGE	230V/1#	230V/1#	
M.C.A.	83.4 A	108.4 A	
M.O.C.P.	90 A	110 A	
OUTDOOR UNIT MODEL #	25HBC548A	25HBC548A	
TOTAL COOLING	47,500	47,500	
SENSIBLE COOLING	36,260	36,260	
HEATING 47°	46,500	46,500	
C.O.P.	3.84	3.84	
HEATING 17°	29,000	29,000	
C.O.P.	2.66	2.66	
S.E.E.R.	15.0	15.0	
SYSTEM KW	3.79	3.79	
VOLTAGE	208/230V/1#	208/230V/1#	
M.C.A.	28.5 A	28.5 A	
D.E.F./HACR BREAK	40 A	40 A	
OUTSIDE AIR	95 CFM	300 CFM	

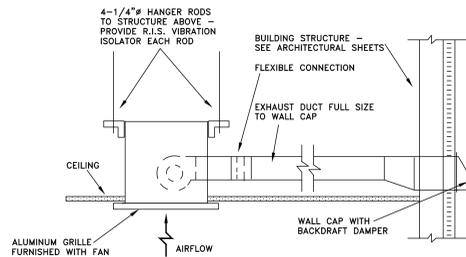
AIR DISTRIBUTION SCHEDULE									
MARK	MANUFACTURER & MODEL NO.	SERVICE	SIZE	C.F.M.	F.P.M.	DESCRIPTION	MATERIAL	FINISH	ACCESSORIES & FEATURES
SG-1	KRUEGER SHPC-04	SUPPLY	6X6	70	280	FOUR WAY THROW DIFFUSER WITH FLANGED FRAME	STEEL	WHITE	FULLY ADJUSTABLE WITH AIR PATTERN CONTROLLERS AND OPPOSED BLADE DAMPER WITH FLANGED FRAME
SG-2	KRUEGER SHPC-04		9X9	140	250				
SG-3	KRUEGER SHPC-04		9X9	150	292				
SG-4	KRUEGER SHPC-04		12X12	325	325				
SG-5	NOT USED								
SWS-1	NOT USED								
SWS-2	KRUEGER B80	SUPPLY	14X6	250	435	SIDEWALL SUPPLY GRILLE	STEEL	COLOR BY ARCHITECT	OPPOSED BLADE DAMPER DOUBLE DEFLECTION
SWS-3	NOT USED		12X6	325	650				
RG-1	KRUEGER S580	RETURN	10X10	210	315	RETURN GRILLE WITH 1" FILTER FRAME	ALUMINUM	WHITE	HORIZONTAL BLADES ANGLED TO PREVENT SEE THROUGH AND OPPOSED BLADE DAMPER MODEL 5FF FILTER FRAME WITH 1" FILTER AND 1/4 TURN FASTENERS
RG-2			24X12	750	375				
RG-3			24X12	755	390				
RG-4			24X12	1090	545				
RG-5	NOT USED								
RA-1	KRUEGER S580	RELIEF	12X6	235	470	RELIEF GRILLE WITH FLANGED FRAME	ALUMINUM	WHITE	HORIZONTAL BLADES ANGLED TO PREVENT SEE THROUGH
RA-2	NOT USED								



CEILING SUPPLY DIFFUSER CONNECTION DETAIL
NO SCALE

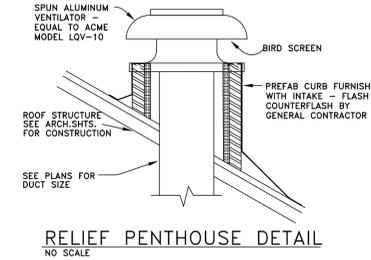


TYPICAL INDOOR H.V.A.C. UNIT DETAIL
NO SCALE

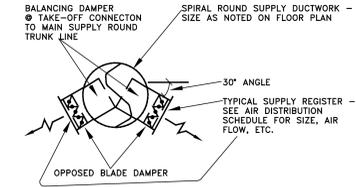


TYPICAL TOILET EXHAUST FAN DETAIL
NO SCALE

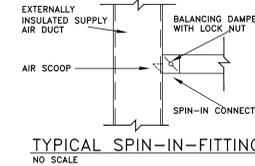
FAN NO.	MEG.	MODEL	CFM	S.P.	WATTS	PH/V.
1	ACME	VQ090E50	70	1/4"	32	1#/120



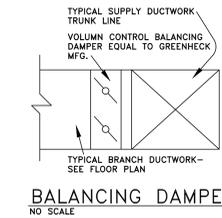
RELIEF PENTHOUSE DETAIL
NO SCALE



TYPICAL ROUND DUCT AIR DISTRIBUTION CONNECTION DETAIL
NO SCALE



TYPICAL SPIN-IN-FITTING
NO SCALE



TYPICAL SUPPLY DUCTWORK TRUNK LINE
NO SCALE

MCCARTY
HOLSAPLE
MCCARTY
MHM
ARCHITECTS
& INTERIORS
DESIGNERS

17063

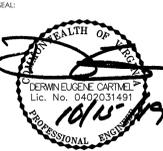
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PROJECT INFORMATION
CONTRACT: SBC-0000000000000000

DAMASCUS TRAIL CENTER

223 W Laurel Ave, Damascus, VA
DAMASCUS, VIRGINIA 24236

- ACTIVE DESIGN PHASE
- SCHEMATIC DESIGN
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 - CONSTRUCTION DOCUMENTS
 - CONSTRUCTION BIDDING PHASE
 - CONSTRUCTION ADMINISTRATION



McCarty-Holsapple-McCarty, Inc.
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Contractor shall check and verify all dimensions and conditions prior to use.

CONSULTANT INFORMATION

NO SCALE

CODES OFFICIAL REVIEW

NO SCALE

REVISION INFORMATION

NO SCALE

HE HOLSTON ENGINEERING, INC.
301 MONTGOMERY ST., SUITE #4, JOHNSON CITY, TN 37604 (423)926-5991 holsteng@out.net

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MECHANICAL DETAILS

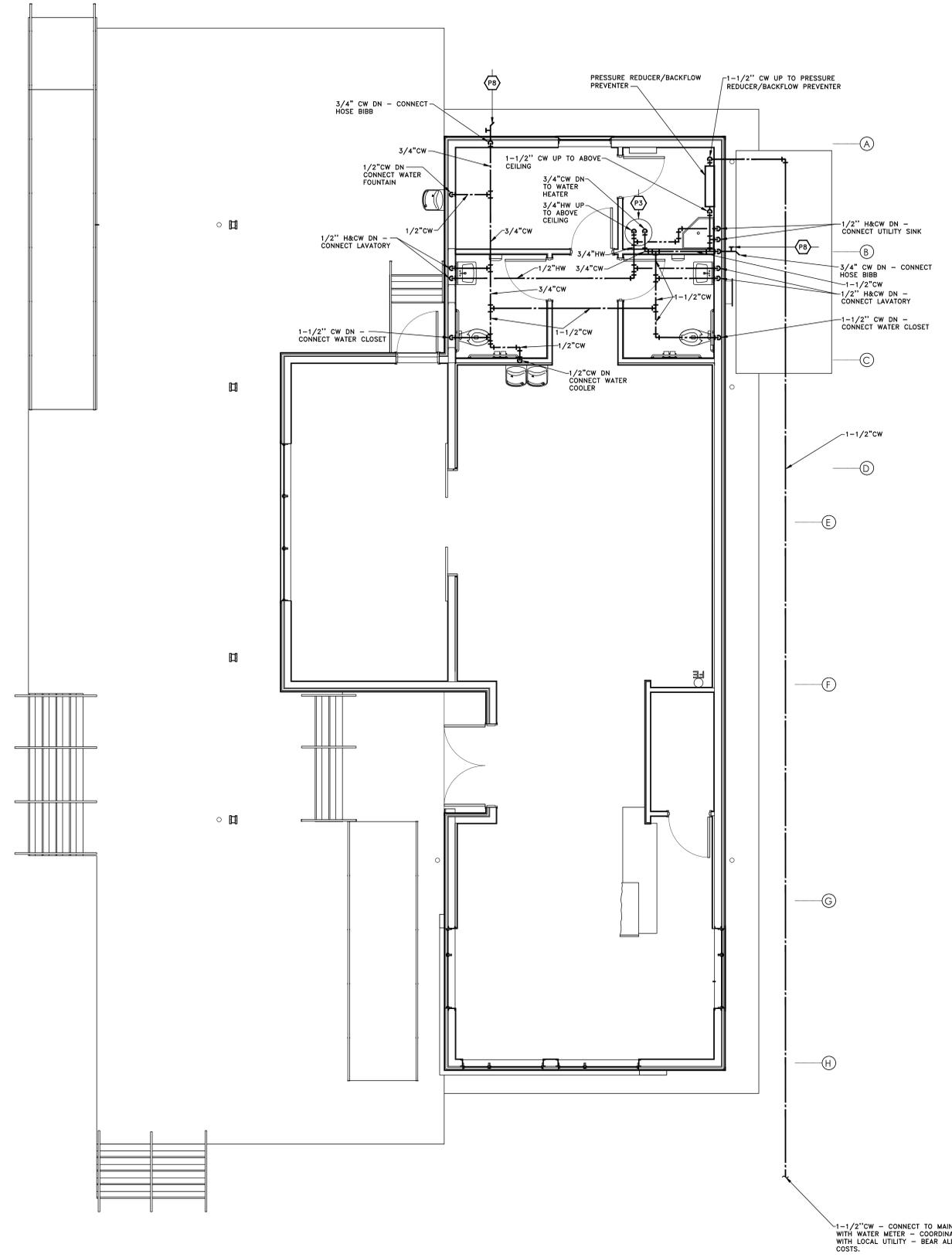
DRAWING NO: **M200**

PLOT DATE: 10/15/19 HE PROJECT # 17-031

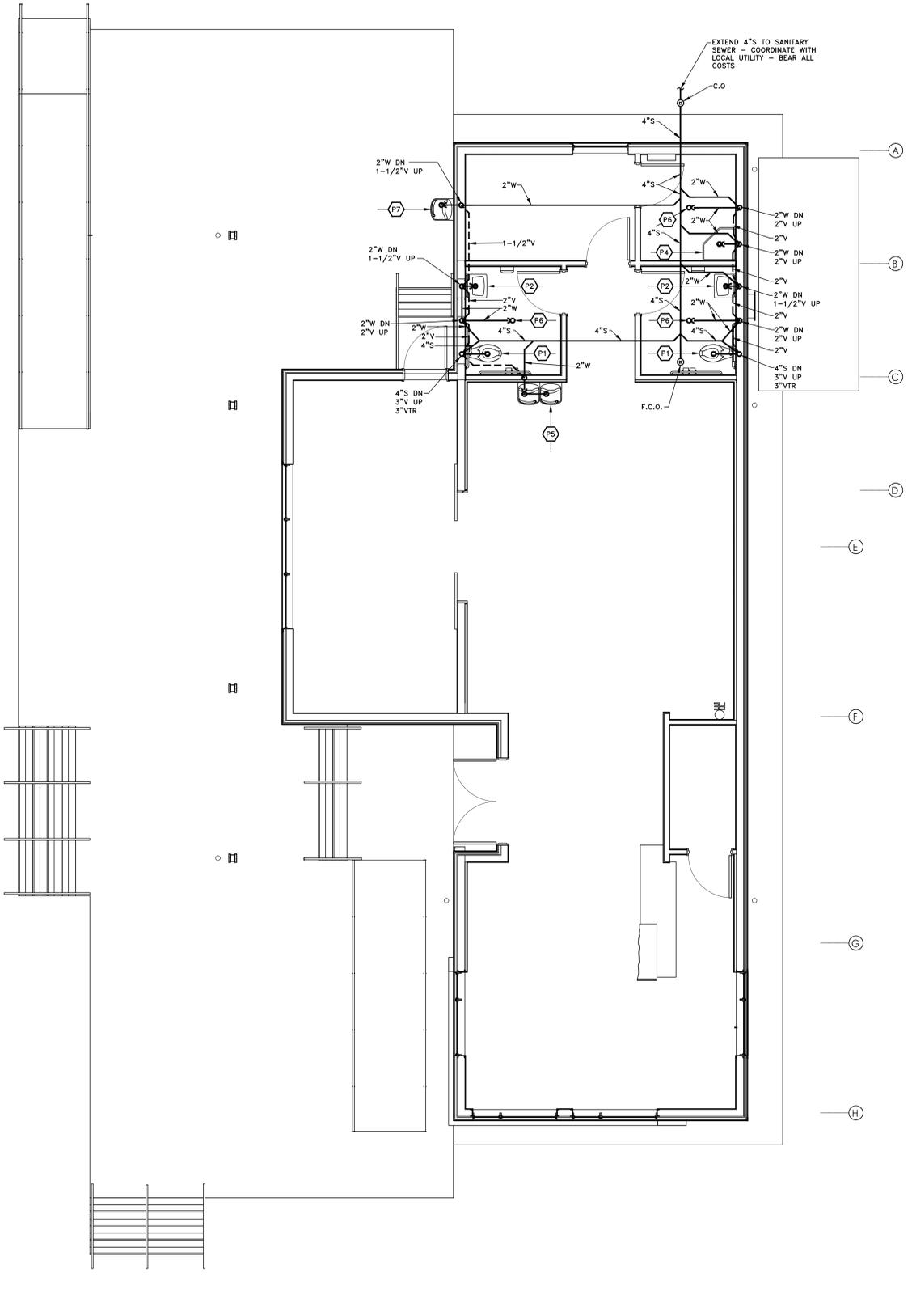
TIME / DATE: 2/23/2018 8:46:17 AM



No.	Date	Description
1	7/27/18	MISC.



TRAIL CENTER DOMESTIC WATER PIPING PLAN
1/4" = 1'-0"



TRAIL CENTER SANITARY SEWER, WASTE, AND VENT PIPING PLAN
1/4" = 1'-0"

HE HOLSTON ENGINEERING, INC.
301 MONTGOMERY ST., SUITE #4, JOHNSON CITY, TN 37604 (423)926-5991 holsteng@usit.net
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PLOT DATE: 10/15/19 HE PROJECT # 17-031

