

GENERAL NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY MUNICIPAL REQUIREMENTS FOR INSPECTIONS AND CERTIFICATIONS BY THE GEOTECHNICAL OR STRUCTURAL ENGINEER FOR THE WORK OF THE GENERAL CONTRACTOR. NOTIFY INVOLVED PARTY PRIOR TO BEGINNING WORK.
2. COORDINATE ALL WORK TO BE PERFORMED WITH RESPECT TO PROPERTY LINES, UTILITIES, SETBACKS, ADJACENT BUILDINGS, EASEMENTS, AND DESIGNATED LANDSCAPE AREAS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND SHORING THE STRUCTURE DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING AND MAINTAINING THE EXCAVATIONS REQUIRED FOR THE CONSTRUCTION SHOWN.
5. SEE CIVIL DRAWINGS FOR INFORMATION NOT SHOWN INCLUDING OPENINGS, PIPE SIZES AND ELEVATIONS.
6. UNLESS NOTED, OUTLET CONTROL STRUCTURES SHALL BE PRECAST STRUCTURES. DESIGN & DETAILING OF ATTACHMENT TO RETAINING WALL FOOTING TO BE BY PRECAST STRUCTURE MANUFACTURER. REFER TO THE PERMITTED CIVIL DRAWINGS FOR LOCATION OF STRUCTURES.
7. PROVIDE SAFETY RAIL AT ALL LOCATIONS WHERE TOP OF WALL IS LESS THAN 42" ABOVE HIGHEST GRADE.
8. PROVIDE STEEL PIPE SLEEVE FOR PIPES PASSING THROUGH THE WALL. GROUT AROUND PIPE AFTER PLACEMENT.

FOUNDATION NOTES:

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF.
2. GENERAL CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER TO SATISFY THE FOLLOWING REQUIREMENTS:
 - a. A GEOTECHNICAL ENGINEER MUST CERTIFY THAT HE HAS TESTED AND CONFIRMED THE SOIL PARAMETERS USED IN THE DESIGN OF THIS WALL.
 - b. THE GEOTECHNICAL ENGINEER MUST CERTIFY THAT HE APPROVED THE FOUNDATION CONDITIONS PRIOR TO THE POURING OF THE FOOTINGS.
3. ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR APPROVED STRUCTURAL FILL AND HAVE MINIMUM COVER OF 12" STEP FOUNDATION TO AVOID CONFLICT WITH SITE STRUCTURES AND UTILITIES.
4. BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL CONCRETE HAS CURED FOR 7 DAYS OR REACHED 70% OF SPECIFIED STRENGTH. BACKFILL SHALL BE DEPOSITED IN LIFTS PER THE GEOTECHNICAL ENGINEER'S REQUIREMENTS. LIFTS SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. COMPACTION OF BACKFILL SHALL BE WITH HAND COMPACTION EQUIPMENT WITHIN TEN (10) FEET OF THE RETAINING STRUCTURE.
5. REFER TO THE SOILS REPORT FOR ADDITIONAL BACKFILL REQUIREMENTS.
6. WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE PRE-CAST CONCRETE RELIEVING ARCH FOR PROTECTION.

REINFORCING NOTES:

1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE ACI.
2. REINFORCING BARS SHALL COMPLY WITH ASTM A-615 GRADE 60.
3. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS, AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS.
4. ALL CONCRETE WALLS TO BE DETAILED IN ELEVATION ON SHOP DRAWINGS, NO MORE THAN 50% OF HORIZONTAL WALL REINFORCING SHALL LAP IN A SINGLE VERTICAL PLANE.

MASONRY NOTES:

1. CONCRETE MASONRY UNITS: SHALL CONFORM TO ASTM C90, LIGHTWEIGHT UNITS. UNIT MINIMUM COMPRESSIVE STRENGTH = 1400 psi ON NET AREA. MORTAR SHALL CONFORM TO ASTM C270 CEMENT-LIME, TYPE S. COMPRESSIVE DESIGN STRENGTH = 1800 psi MIN. MASONRY SYSTEM COMPRESSIVE STRENGTH f_m = 1500 psi ON NET AREA. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", A MINIMUM COMPRESSIVE STRENGTH OF 2200 psi, AND A MAXIMUM SLUMP OF 4 INCHES.
2. FILL ALL MASONRY CELLS BELOW FINISHED FLOOR WITH GROUT. WHERE FINISHED FLOOR IS BELOW GRADE, FILL ALL CELLS BELOW GRADE.

DESIGN CRITERIA:

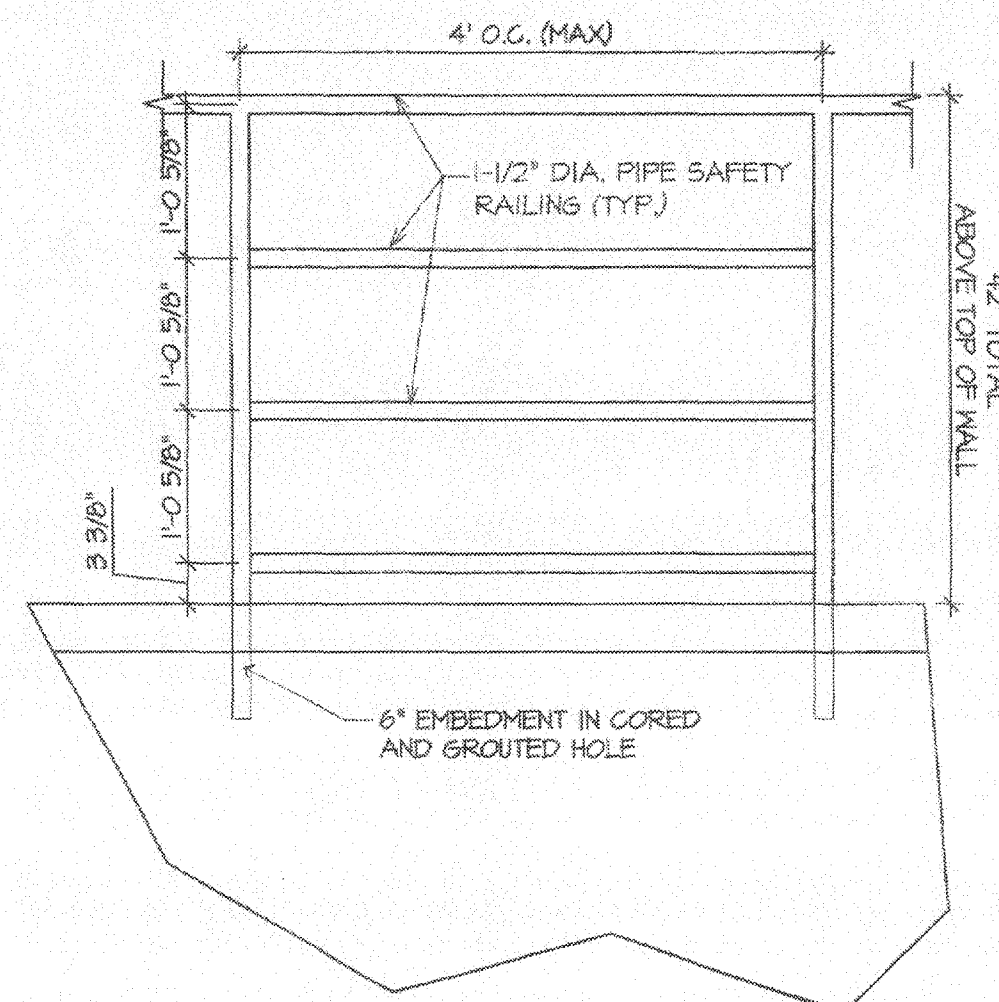
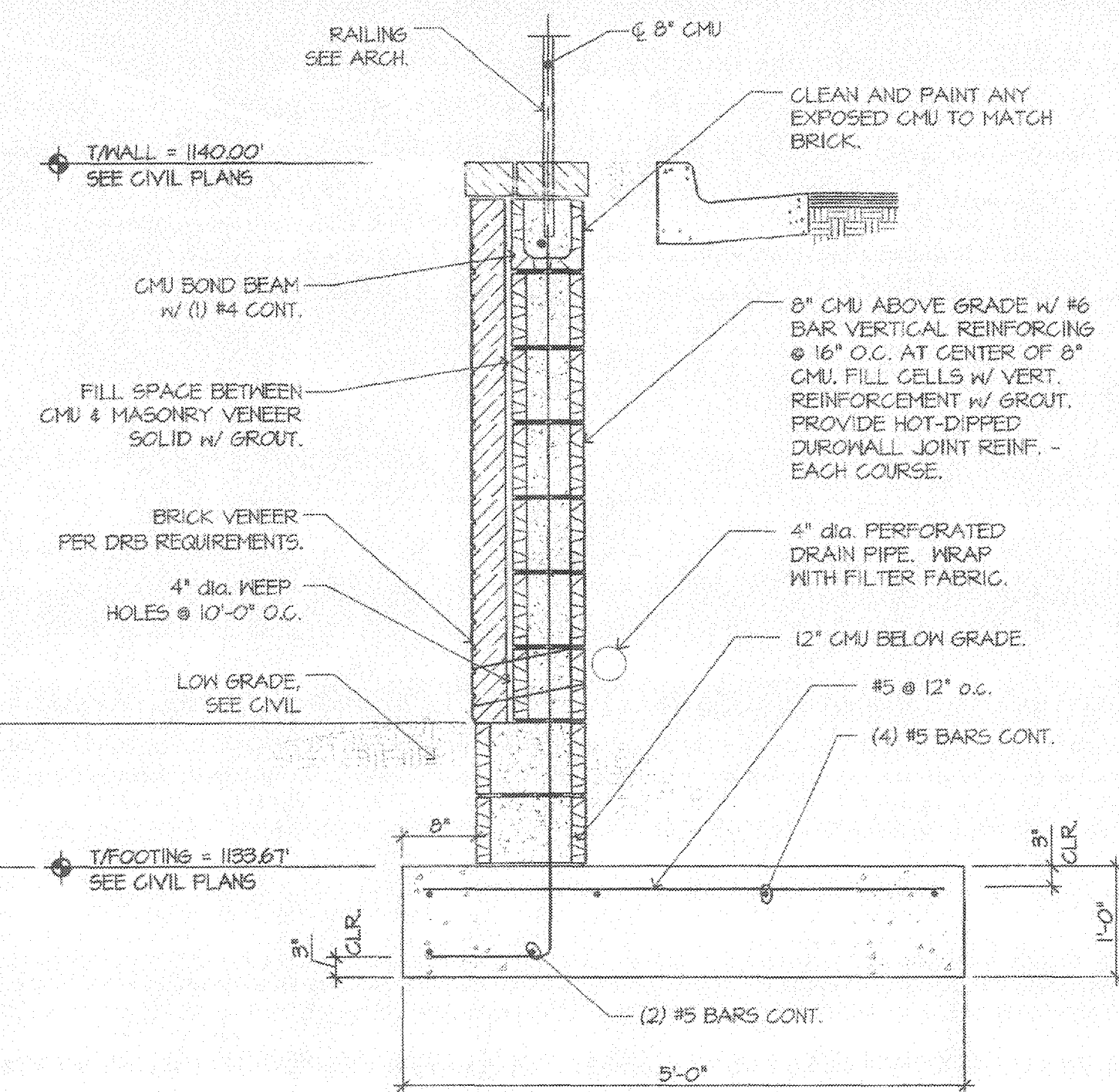
ACTIVE PRESSURE (LEVEL BACKFILL) = 40 pcf
 ACTIVE PRESSURE (SLOPING BACKFILL) = 60 pcf
 AT-REST PRESSURE = 60 pcf
 PASSIVE PRESSURE = 250 pcf
 WATER PRESSURE = 62.4 pcf
 COEFFICIENT OF FRICTION = 0.3
 DRAINED UNIT WEIGHT OF SOIL = 110 pcf
 BEARING CAPACITY OF SOIL = 2000 psf

REINFORCING LAP LENGTHS - 3000 psi CONC. (ACI 318-05)

BAR SIZE	TENSION LAP SPLICE CLASS "A"	TENSION LAP SPLICE CLASS "B"	COMPRESSION SPLICE
#3	17"	22"	9"
#4	22"	29"	11"
#5	28"	36"	14"
#6	33"	43"	17"
#7	40"	53"	20"
#8	55"	72"	22"
#9	62"	81"	25"
#10	70"	91"	28"
#11	78"	101"	31"

MASONRY LAP SPLICE TABLE - IBC 2006

BAR SIZE	ALLOWABLE STRESS (100% STRESS)
BAR SIZE	MIN. LAP LENGTH
#3	27"
#4	36"
#5	45"
#6	54"
#7	63"



SITE RETAINING WALL

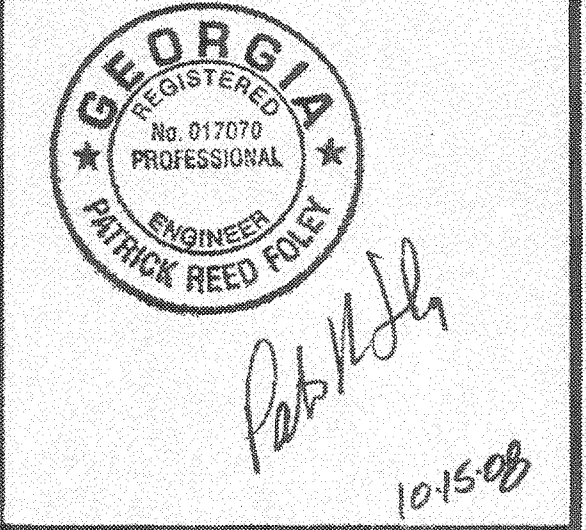
SAFETY RAIL ELEVATION

1 RETAINING WALL PLAN
 SCALE: 3/32" = 1'-0"

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Building #400
 at Village Walk
 Rucker Rd & Houze Rd
 LL 1238, 2nd District, 2nd Section
 City of Roswell, GA

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RETAINING WALL PLAN & DETAILS

RW1.1
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