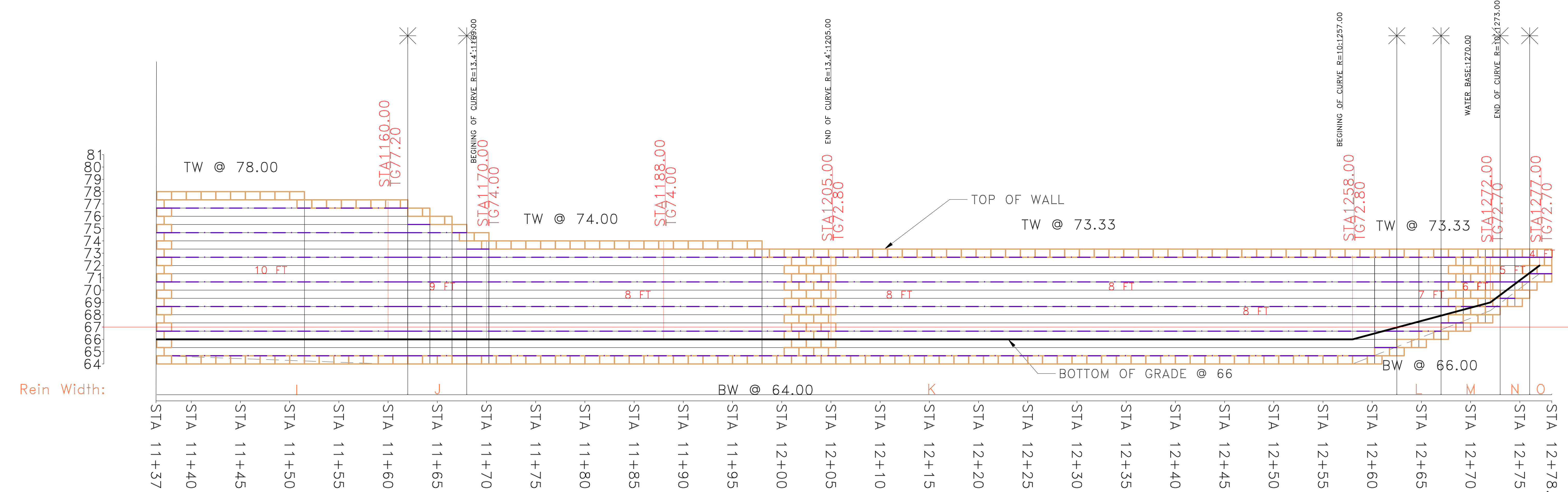
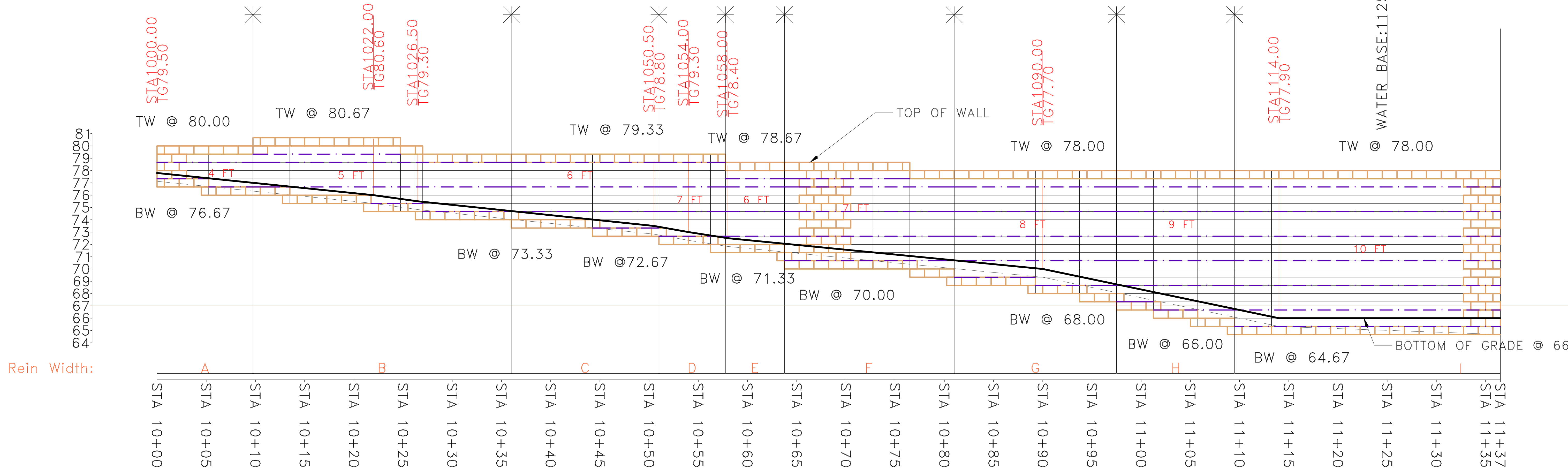
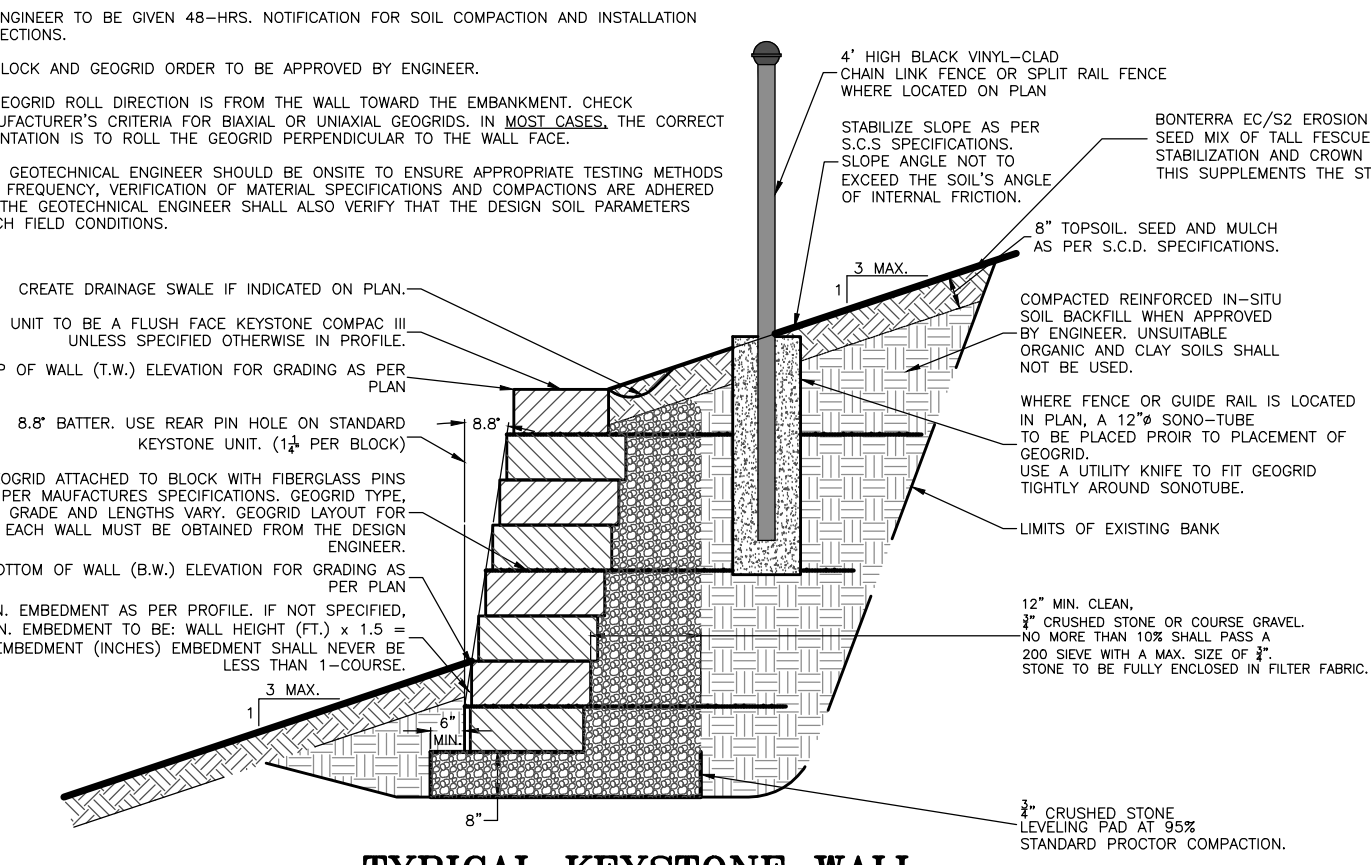


MIDDLE WALL



- RETAINING WALL DESIGN STANDARDS**
- 1) COLUMB EARTH PRESSURE METHODOLOGY AS PER NCEM DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS.
 - 2) WALL TO UTILIZE PECCAN BLENDED KEYSTONE COMPACT III STRAIGHT FACE BLOCK WITH A 1" SETBACK PER COURSE (6 DEGREES) WITH THE EXCEPTION OF THE BASE COURSE. BASE COURSE TO BE STANDARD III STRAIGHT BLOCK.
 - 3) MINIMUM EMBEDEDMENT TO BE 14/7.
 - 4) WHERE BASE OF WALL IS WITHIN THE DETENTION PONDS, THE BASE OF THE WALL TO BE UPON A 4" WIDE LEVELING PAD OF 3/4" CLEAN #57 CRUSHED STONE WRAPPED IN GEGRID SET UPON FIRM BEARING SOIL.
 - 5) WHERE WALL IS WITHIN THE DETENTION PONDS, SHALL BE BACKFILLED TO ELEVATION 68.0 WITH CLEAN 3/4" #57 CRUSHED STONE.
 - 6) SITE ENGINEER TO CONFIRM SOIL BEARING OF 2000 PSF.
 - 7) 12" BEHIND WALL TO BE BACKFILLED WITH CLEAN 3/4" #57 CRUSHED STONE.
 - 8) THE BACKFILL WITHIN THE REINFORCED SOIL ZONE TO BE SAND/GRAVEL WITH AN INTERNAL ANGLE OF FRICTION OF 34 DEGREES OR BETTER AND A UNIT WEIGHT OF 120 PCF COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - 9) ONLY HAND OPERATED COMPACTION EQUIPMENT TO BE ALLOWED WITHIN 3 FEET OF THE REAR OF THE WALL.
 - 10) BACKFILLED GRADED SLOPE ATOP WALL NOT TO EXCEED 3H:1V.
 - 11) DESIGN SURCHARGE LOAD AT TOP OF SLOPE IS 50 PSF.
 - 12) MINIMUM GEGRID LENGTH IS 6H.
 - 13) MINIMUM RADIUS OF CURVATURE IS 10'.
 - 14) FACTORS OF SAFETY AS FOLLOWS:
 BASE SLIDING FS = 1.5
 OVERTURNING FS = 2.0
 INTERNAL SLIDING FS = 1.5
 TENSILE OVERSTRESS FS = 1.5
 CONNECTION FS = 1.5
 INTERNAL STABILITY FS = 1.5
 BEARING FS = 2.0



REVISION	DIGEST

SCALE:
HORIZONTAL 1" = 5'
VERTICAL 1" = 4'

Lily Latimer
TIBOR LATINCIS
N.J. REG. NO. 24, N.E.P. 3738
CONKLIN ASSOCIATES
PROFESSIONAL ENGINEERS AND LAND SURVEYORS
29 CHURCH STREET
P.O. BOX 282, RAMSEY, NJ 07446
PHONE (201) 327-0443, FAX (201) 934-1097
CERTIFICATE OF AUTHORIZATION #24GA28046300

SHEET 8 OF 8

RETAINING WALL DESIGN
DETAILS
LOT 3 - BLOCK 4104
DURAR AVENUE
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY
FOR
HOPPER CONDOMINIUM ASSOCIATION, INC.

SCALE: 5H:4V
ORIGINAL PLAN DATE: 11/28/16
SURVEY DATE: 11/18/16

FILE NO.: PLOT NO.:3 WALLS - 5H-4V.dwg final.dwg