

# DECORATIVE CONCRETE BLOCK PILLARS

FOR USE WITH OPTIONAL DECORATIVE GATE ATTACHMENT (UNDER SEPARATE CERTIFICATION)

TYPICAL INSTALLATION: NON-STRUCTURAL, DECORATIVE, GROUND LEVEL NON-SLOPED ONLY

DRAWING VALID ONLY WITH ORIGINAL SIGNATURE AND RAISED SEAL. THIS PLAN IS VALID FOR (1) LOCATION/PERMIT PER SEALED DRAWING

FRANK L. BENNARDO, P.E.  
PE# 0046549

01/26/2018

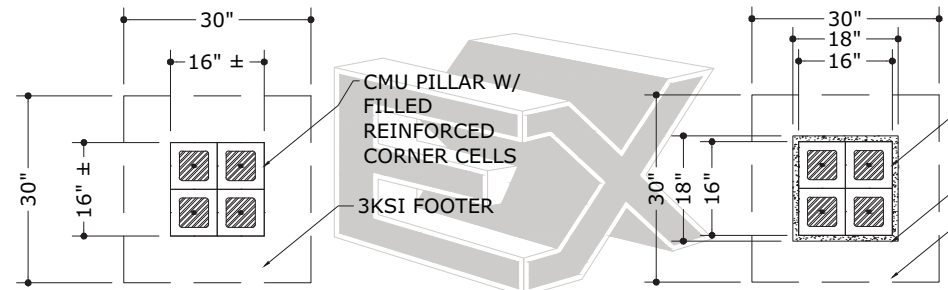
IF CHECKED, CERTIFYING P.E. APPEARS BELOW  
GORDON DIBATISTO, P.E.  
PE# 82328

**NOTICE: IF THIS SHEET DOES NOT CONTAIN AN ORIGINAL SIGNATURE & ENGINEER SEAL:**

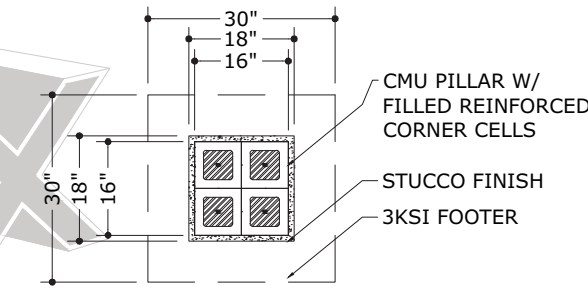
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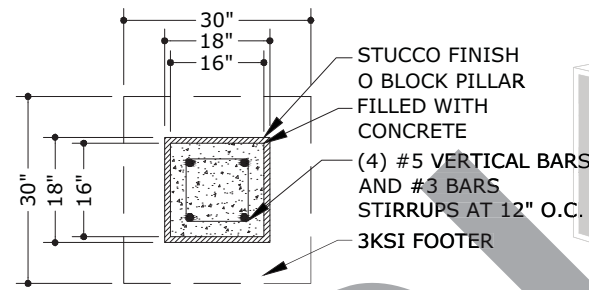
**DECORATIVE PILLARS**  
MASTER PLAN SHEET  
FLORIDA BUILDING CODE  
ASCE 7-10 - ABOVE GRADE SIGN METHOD



**16" PILLAR PLAN**  
(NOT INCLUDING FINISHES)

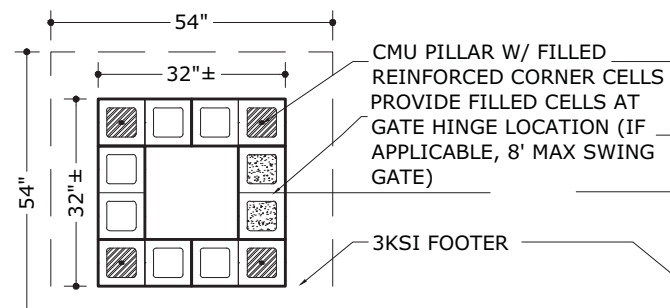


**18" PILLAR PLAN**  
(INCLUDING FINISHES)

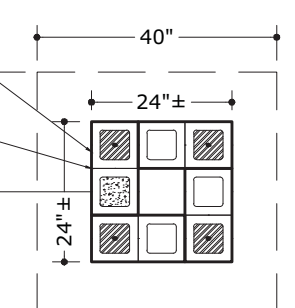


**18" PILLAR PLAN (O BLOCK)**  
(INCLUDING FINISHES)

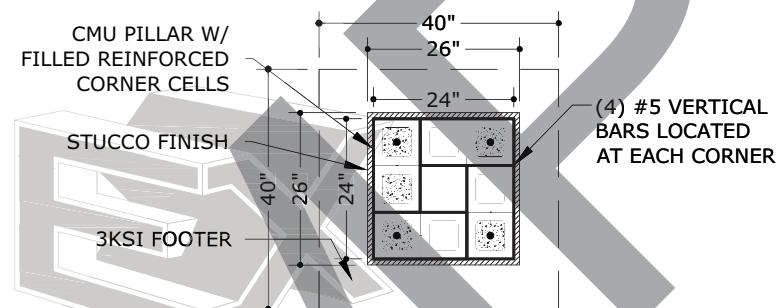
NOTE: OTHER PILLAR SIZES FOLLOW SIMILAR DIMENSIONING



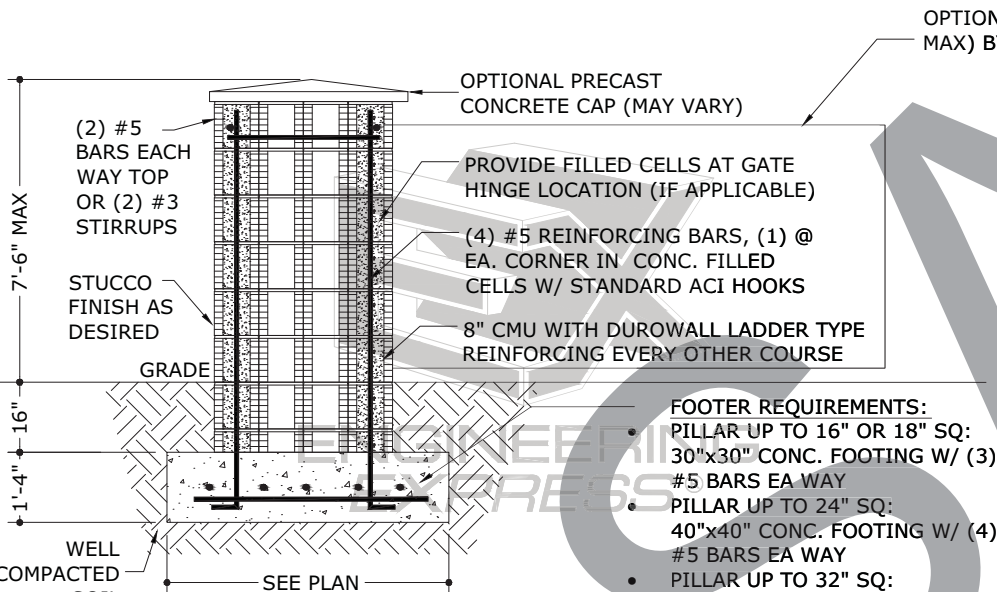
**32" PILLAR PLAN**  
(NOT INCLUDING FINISHES)



**24" PILLAR PLAN**  
(NOT INCLUDING FINISHES)

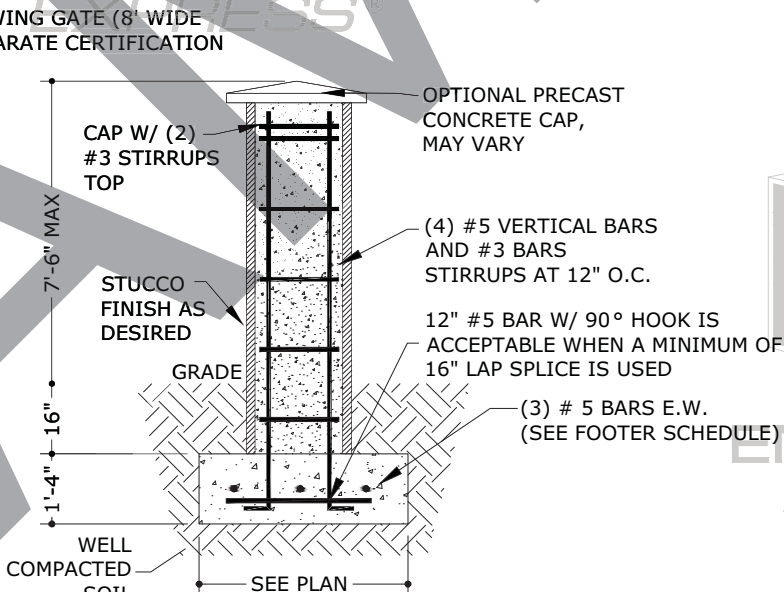


**26" PILLAR PLAN**  
(INCLUDING FINISHES)



**PILLAR DETAIL (32" SHOWN)**  
OTHER SIZES FOLLOW REQUIREMENTS HEREIN SECTION VIEW

- FOOTER REQUIREMENTS:**
- PILLAR UP TO 16" OR 18" SQ: 30"x30" CONC. FOOTING W/ (3) #5 BARS EA WAY
  - PILLAR UP TO 24" SQ: 40"x40" CONC. FOOTING W/ (4) #5 BARS EA WAY
  - PILLAR UP TO 32" SQ: 54"x54" CONC. FOOTING W/ (5) #5 BARS EA WAY



**PILLAR DETAIL (18" O-BLOCK SHOWN)**  
SECTION VIEW

- THIS PLAN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017).
- DESIGN BASED ON ASCE 7-10 USING  $V_{ult} = 165$  MPH /  $V_{asd} = 128$  MPH (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), EXPOSURE 'D', RISK CATEGORY I, USING THE 'ABOVE GRADE SIGN METHOD'.
- SEISMIC DESIGN DOES NOT GOVERN. SEISMIC PARAMETERS CHECKED: RISK CATEGORY II, IMPORTANCE FACTOR 1.0.
- THIS DETAIL IS PREPARED AS A GENERAL NON-STRUCTURAL DESIGN FOR DECORATIVE PURPOSES ONLY. TYPICAL FIELD CONDITIONS ARE ASSUMED IN THE DESIGN. SHOULD ANY SPECIFIC CONDITION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR AND PERMITTING CONTRACTOR. CARE SHALL BE TAKEN BY CONTRACTOR IN ALL APPLICATIONS OF THIS DETAIL.
- CONCRETE NOTES: ALL CONCRETE AND EPOXY TO REACH A MIN. COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. SURROUNDING SOIL TO BE COMPACTED TO 95% OPTIMUM DENSITY, 2500 PSF MIN. ALL REINFORCING MASONRY WORK SHALL CONFORM TO ACI 530.1/ASCE 6 "SPECIFICATIONS FOR MASONRY STRUCTURES" ( $f'_m = 1500$ psi). CMU SHALL CONFORM TO ASTM C 90. MORTAR TYPE SHALL BE 1-M PER ASTM C 270. GROUT SHALL CONFORM TO ASTM DESIGNATION C476. PROVIDE DUR-O-WALL HORIZONTAL JOINT REINFORCEMENT FULL LENGTH OF COLUMN BEGINNING AT SECOND COURSE FROM BOTTOM AND EVERY OTHER COURSE THEREAFTER PER MFR. SPECIFICATIONS (U.N.O.).
- STEEL REINFORCEMENT: ALL REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60 (U.N.O.), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST AND BENT, LAPPED, PLACED, SUPPORTED AND FASTENED ACCORDING TO THE "ACI DETAILING MANUAL" AND ACI 318. ALL STEEL SHALL BE SECURELY HELD IN PLACE DURING POURING OF CONCRETE. IF REQUIRED, ADDITIONAL BARS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. MINIMUM 3" EDGE DISTANCE FROM ANY CONCRETE FACE FOR ALL BARS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE OR MISLEADING INFORMATION ON THIS PLAN. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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REMARKS	DRWN	CHKD	DATE
2017 FLB/UPDATES	FLB		01/26/18

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SCALE: NTS UNLESS NOTED  
**1** OF 1