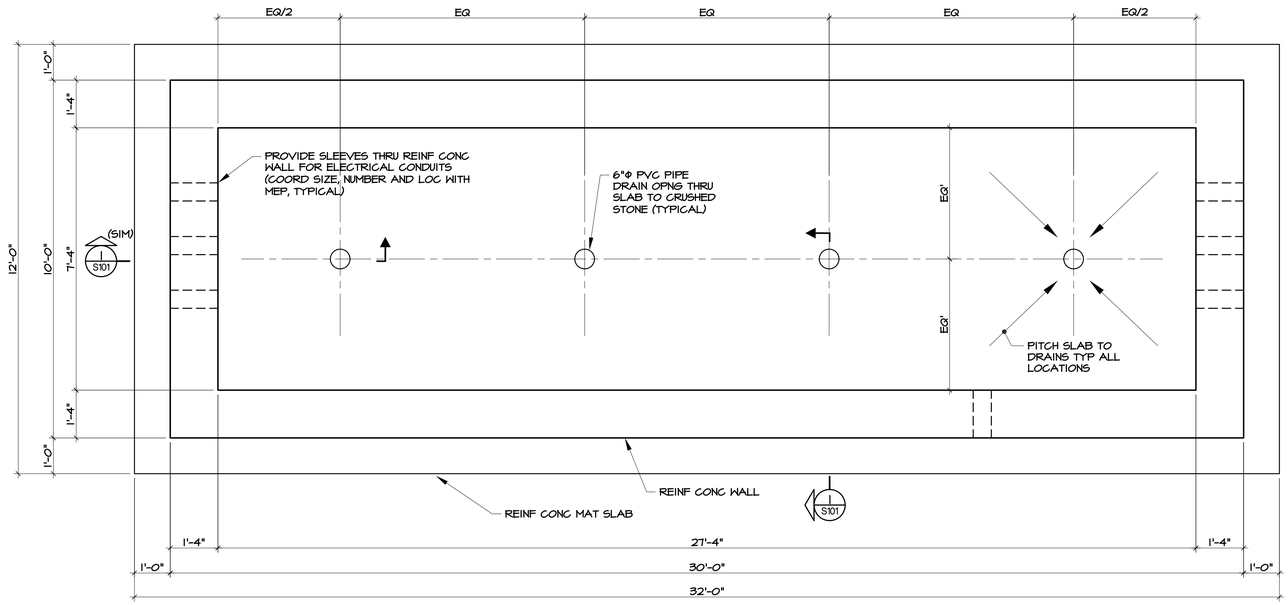
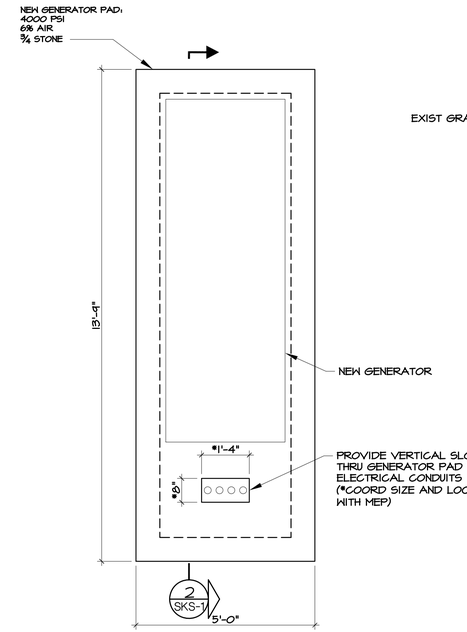


FOUNDATION PLAN

SCALE: 1/2" = 1'-0"

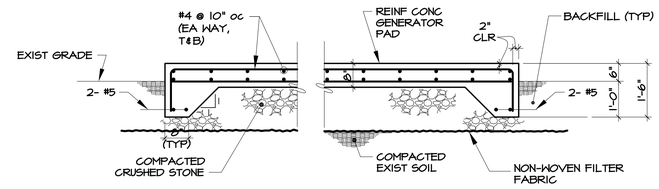
NOTE:

1. NEW MAT SLAB IS 10" REINFORCED CONCRETE SLAB WITH REINFORCING AS SHOWN IN SECTION PLACED ON A MINIMUM 6" CRUSHED STONE OVER LAYER OF NON-WOVEN FILTER FABRIC ON COMPACTED SUBGRADE.



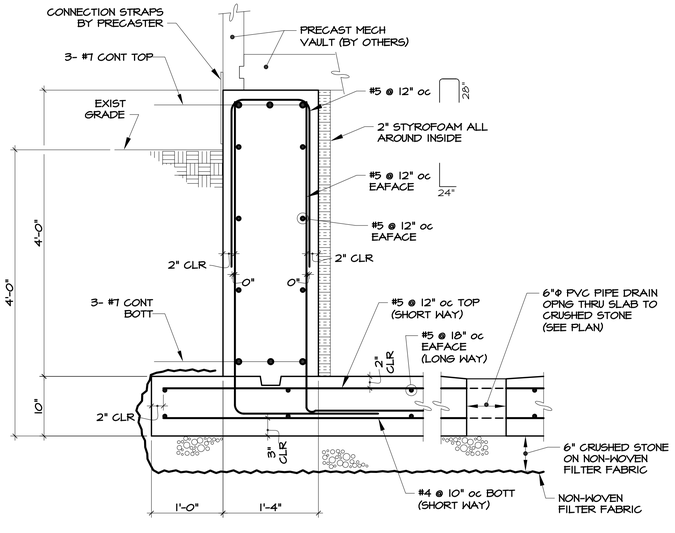
PLAN AT NEW TANK PAD

SCALE: 1/2" = 1'-0"



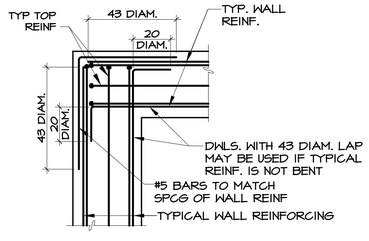
2 S101 SECTION

1/2" = 1'-0"



1 S101 SECTION

1" = 1'-0"



TYPICAL PLAN DETAILS OF CORNER BARS

NO SCALE

DESIGN BASIS

1. FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 MAINE UNIFORM BUILDING CODE (ICC 2009 INTERNATIONAL BUILDING CODE "IBC 2009" WITH REFERENCE TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS SEI/ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
2. FOUNDATION DESIGNED FOR WIND LOADS BASED ON THE FOLLOWING PARAMETERS:
   a. BUILDING CATEGORY = III
   b. BASIC WIND SPEED, V = 100 MPH (3 SEC. GUST)
   c. EXPOSURE CATEGORY = C
   d. IMPORTANCE FACTOR, Iw = 1.15
   e. TOPOGRAPHIC FACTOR Kzt = 1.0
   f. EXPOSURE COEFFICIENT, = .98
   g. VELOCITY PRESSURE, qz = 21.2 PSF
   h. NET DESIGN WIND PRESSURE 18.3 PSF
3. FOUNDATION DESIGNED FOR SEISMIC LOADS BASED ON THE FOLLOWING PARAMETERS:
   a. STRUCTURE CATEGORY = NON-BUILDING STRUCTURE
   b. SITE CLASS = E (ASSUMED FOR DESIGN)
   c. MAX. 0.2 SEC. SPECTRAL RESPONSE ACCELERATION, Ss = 0.31
   d. MAX. 1.0 SEC. SPECTRAL RESPONSE ACCELERATION, S1 = 0.08
   e. IMPORTANCE FACTOR, Ie = 1.25
   f. OCCUPANCY CATEGORY = III
   g. SEISMIC DESIGN CATEGORY = C
   h. BASIC SEISMIC-FORCE-RESISTING SYSTEM = ORDINARY PRECAST CONCRETE SHEAR WALLS
   i. RESPONSE MODIFICATION FACTOR, R = 3.0
   j. SYSTEM OVERSTRENGTH FACTOR, o = 2.5
   k. METHOD OF ANALYSIS: EQUIVALENT LATERAL FORCE PROCEDURE
4. FOUNDATION DESIGNED FOR SNOW LOADS BASED ON THE FOLLOWING PARAMETERS: GROUND SNOW LOAD 60 PSF; DESIGN ROOF SNOW LOAD 72 PSF
5. SPECIAL LOADS: FLOOR LIVE LOAD REQUIREMENT: 200PSF; INCREASED WHERE BATTERIES ARE PRESENT AS REQUIRED BY EQUIPMENT SELECTED.
6. FLOOR SLAB PROVIDED BY PRECASTER TO BE 6" UNIFORM THICKNESS.
7. DEAD LOADS INCLUDED FOR CONCRETE COMPONENTS, AND MECHANICAL EQUIPMENT ARE BASED ON WEIGHTS AND GEOMETRIES PROVIDED BY OTHERS.
8. ACI "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-02) AND "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315 - LATEST EDITION).

FOUNDATION NOTES

1. SOIL BEARING CAPACITY USED IN THE DESIGN OF FOUNDATIONS:

   0.75 TONS PER SQUARE FOOT

2. ALL FOOTINGS TO BEAR ON CRUSHED STONE ON FILTER FABRIC ON COMPACTED NATURAL UNDISTURBED SOIL HAVING MINIMUM BEARING CAPACITY AS INDICATED.
3. ALL BACKFILL SHALL BE FREE DRAINING POROUS GRAVEL MATERIAL FREE OF ORGANIC MATERIALS WITH FINES PASSING THE #100 SIEVE NOT EXCEEDING 10%.
4. BOTTOMS OF BUILDING FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE.
5. ALL SOIL SURROUNDING AND BENEATH FOOTINGS SHALL BE PROTECTED FROM FROST DURING CONSTRUCTION.
6. PROVIDE SLEEVES OR FORMED OPENINGS FOR CONDUIT ACCESS THOUGH FOUNDATION WALLS BELOW THE HUT AS REQUIRED. SLEEVES OR OPENINGS SHALL NOT CUT REINFORCING OR BE CLOSER THAN 2" TO REINFORCING BARS UNLESS CONDUITS ARE TO BE CAST INTO THE WALL. CONTRACTOR TO COORDINATE LOCATION AND ELEVATION OF CONUITS AND OPENINGS WITH ELECTRICAL AND TELECOM REQUIREMENTS. OPENINGS AND SLEEVES SHALL BE GROUTED SOLID AFTER CONDUIT INSTALLATION.

CONCRETE NOTES

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS: 4000 PSI (NORMAL WEIGHT)

   AGGREGATES TO CONFORM TO ASTM C33 REQUIREMENTS

   WATER: CLEAN, FRESH, POTABLE, FREE OF SUBSTANCES INJURIOUS TO CONCRETE

   CEMENT: CONFORM TO ASTM C150 TYPE I/2.

   AIR CONTENT: 6% +/- 1.5%.
   ADMIXTURES CONFORMING TO ASTM C260.

   CALCIUM CHLORIDE WILL NOT BE PERMITTED IN ANY CONCRETE.

   PRIOR TO PLACING CONCRETE, MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
2. ALL BAR REINFORCING FOR CONCRETE SHALL CONFORM TO ASTM A 615 GRADE 60 (DEFORMED). NO REINFORCING SHOWN ON DRAWING SHALL BE WELDED.
3. UNLESS OTHERWISE SHOWN, LOCATE REINFORCING BARS WITH THE FOLLOWING CLEAR DIMENSION TO FACE OF CONCRETE:

   2" CLEAR FOR #6 AND GREATER, AND WALL PANEL REINFORCEMENT.
   3" CLEAR TO BOTTOM OF FOOTING.
4. CONCRETE ACCESSORIES MUST BE ADEQUATE TO MAINTAIN REINFORCING ACCURATELY IN PLACE AND BE NON-CORROSIVE, NON-STAINING TYPE.
5. LAP ALL BAR REINFORCING IN CONCRETE ELEMENTS 48 BAR DIAMETERS
6. REFER TO ARCHITECTURAL AND MECHANICAL/ELECTRICAL/TELECOM DRAWINGS FOR ALL DEPRESSIONS, REVEALS, PROJECTIONS, SILLS, PIPE SLEEVES, DUCT OPENINGS, CONDUIT OPENINGS, ETC. THAT ARE TO BE CAST WITH CONCRETE.

AMES & WHITAKER Architects
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS
31 Liberty Street, Suite 208 Southington, Connecticut 06489 (860) 621-6944 Fax (860) 621-0957

Spiegel Zamecnik & Shah Inc.
Structural Engineers
54 Wall Street New Haven Connecticut 06511 203-624-9831 FAX 203-777-4227
2450 Virginia Ave NW Suite E312 Washington DC 20037 202-223-9500 FAX 202-223-9793

2015.01.083

REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE

DRAWINGS PREPARED FOR
AT&T CORPORATE REAL ESTATE

PROJECT TITLE:

TELECOMMUNICATIONS HUT

UNION STATION PLAZA
240-280 SAINT JOHN ST
PORTLAND

PTLFME01 Archoid AAB7WI

SHEET TITLE:

NEW FOUNDATION FOR PRECAST MECHANICAL VAULT

AT&T PROJECT NUMBER: E15823	DATE: 08/21/2017	SCALE: AS NOTED	
	DRAWN BY: SZS	CHECKED BY: DAC	
AT&T AUTHORIZATION: GREGG MIRANDO	SHEET: OF: XX SHEETS	SHEET NO. S101	
	AT&T DRAWING NO.:		