

PLAN NOT VALID WITHOUT ORIGINAL WET STAMP

PROJECT NAME:

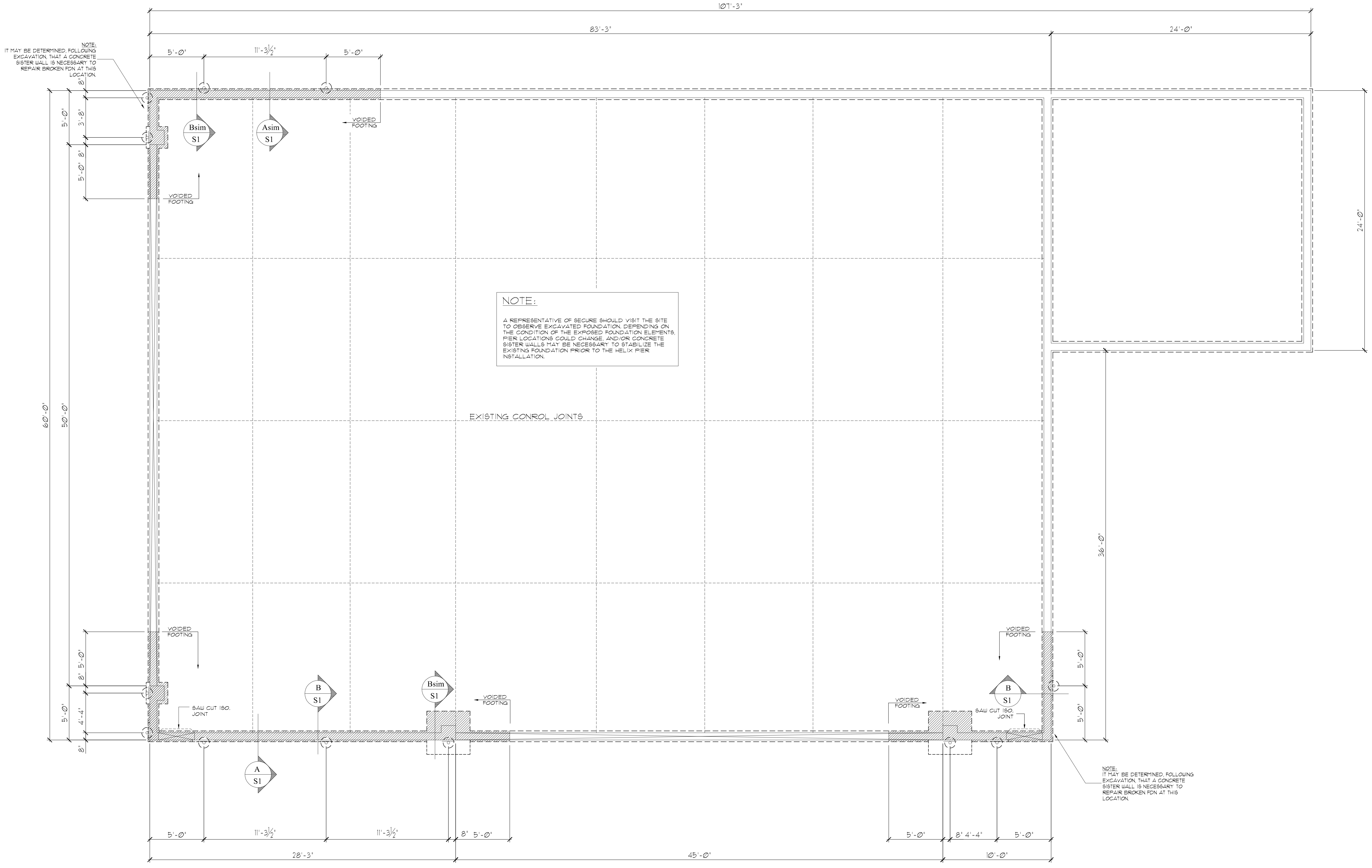
PROJECT NAME

PROJECT DESCRIPTION  
 STREET ADDRESS  
 CITY, STATE

CLIENT:  
 YOUR COMPANY  
 NAME  
 STREET ADDRESS  
 CITY, STATE  
 Contact: Your Name  
 Your Number

FOUNDATION REPAIR PLAN

NO.	DATE	REVISION/ISSUE



NOTE:  
 IT MAY BE DETERMINED, FOLLOWING EXCAVATION, THAT A CONCRETE SISTER WALL IS NECESSARY TO REPAIR BROKEN FDN AT THIS LOCATION.

NOTE:  
 A REPRESENTATIVE OF SECURE SHOULD VISIT THE SITE TO OBSERVE EXCAVATED FOUNDATION. DEPENDING ON THE CONDITION OF THE EXPOSED FOUNDATION ELEMENTS, PIER LOCATIONS COULD CHANGE, AND/OR CONCRETE SISTER WALLS MAY BE NECESSARY TO STABILIZE THE EXISTING FOUNDATION PRIOR TO THE HELIX PIER INSTALLATION.

NOTE:  
 IT MAY BE DETERMINED, FOLLOWING EXCAVATION, THAT A CONCRETE SISTER WALL IS NECESSARY TO REPAIR BROKEN FDN AT THIS LOCATION.

HELICAL PILE /  
 FOUNDATION PLAN  
 NOT TO SCALE

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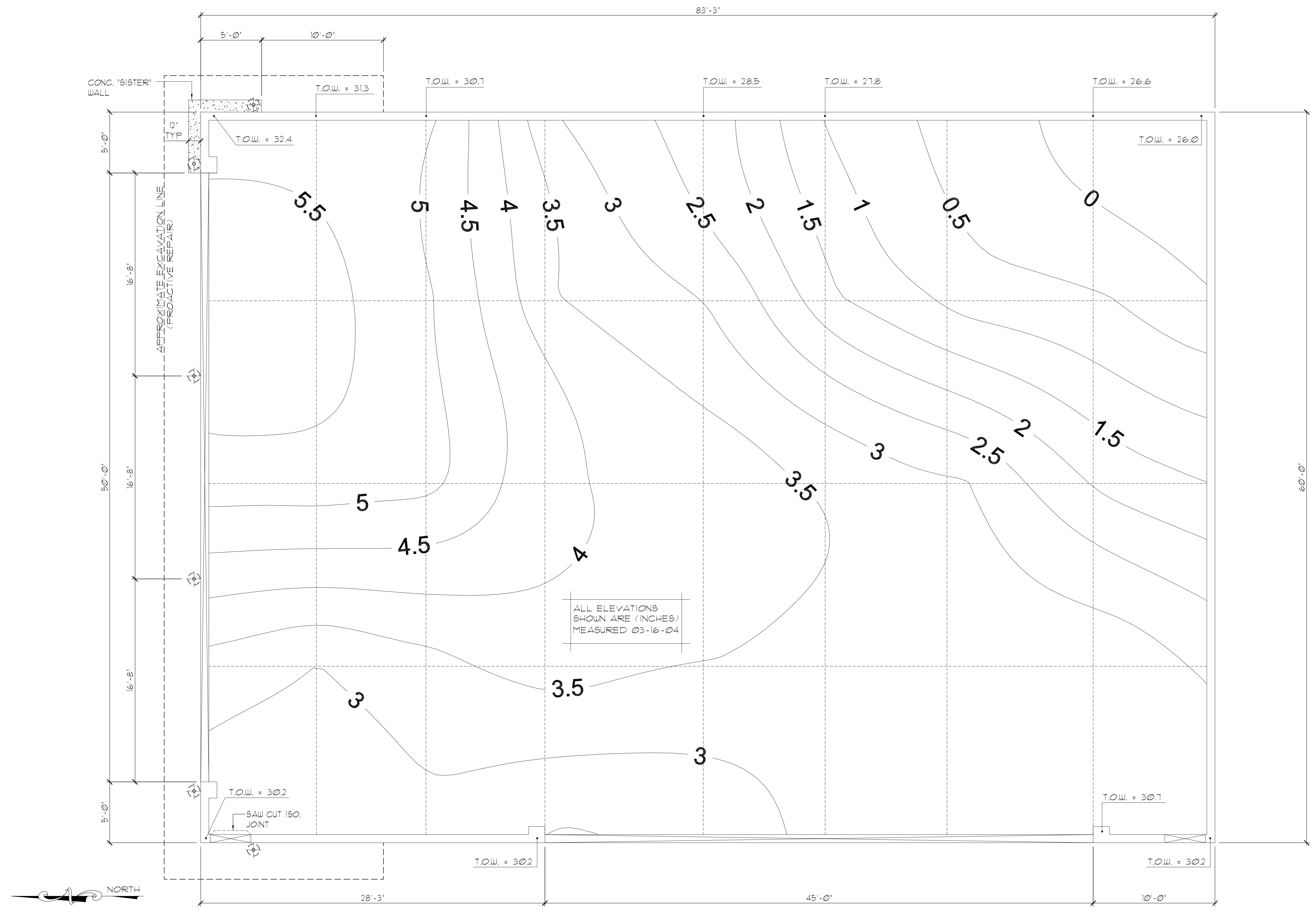
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FLOOR SLAB SURVEY

NO.	DATE	REVISION/ISSUE

DESIGNED BY: MMB DATE: 5/26/09  
 DRAWN BY: MMB SCALE: AS SHOWN  
 CHECKED BY: HAP  
 PROJECT NO: CR100



FOUNDATION ELEVATIONS  
 NOT TO SCALE

THESE DRAWINGS AND DETAILS ARE PROVIDED FOR GENERAL ENGINEERING PURPOSES AND SHALL NOT BE USED FOR OR IN ANY MANNER THAT CONFLICTS WITH ANY LAW OR PUBLISHED OR UNPUBLISHED ENGINEERING.



NO.	DATE	REVISION/ISSUE

## General Notes:

### 1. Codes:

This plan was prepared based on the 2003 I-Codes with local amendments and portions of the most recent versions of AISC Allowable Stress Design ninth edition.

This plan is based upon the following load parameters:

Roof: Live Load = 30 psf

Seismic: Zone B

Soils report by: Foundation Engineering, Project # 4525-1-1-1, Date: 8-25-05

### 2. Helix Piers

All Helix foundations and pier caps shall be capable of carrying the specified loads. Helix foundation installation should be observed by a representative from Your firm.

### Specifications :

Minimum shaft section = 2-7/8" SCH 80, HSS 3.00x0.25

Minimum Length = per schedule

Design Load = per schedule

Blades per Contractor/Manufacturer

Slack = 1/16" max per coupling

### 3. Backfill:

Magnum Geo-Solutions recommends moisture conditioned on-site soils be used for backfilling around all foundation walls. Backfill should be adequately compacted, placed in 8" max lifts, moisture treated to 0 to +3% above optimum moisture content, and graded to provide positive drainage away from the foundation. Backfill adjacent to the foundation may settle over time. The backfill must be monitored and maintained to provide adequate drainage away from the foundation.

### 4. Drainage:

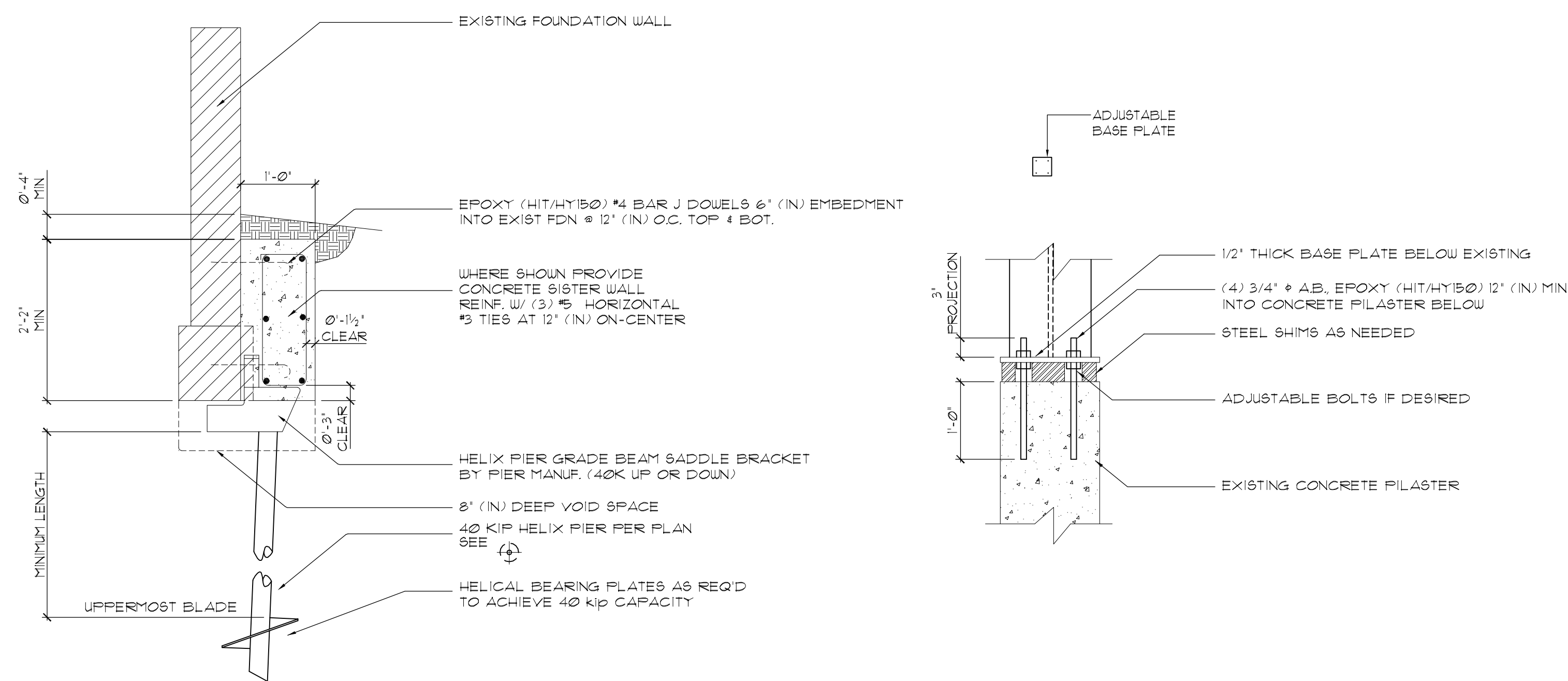
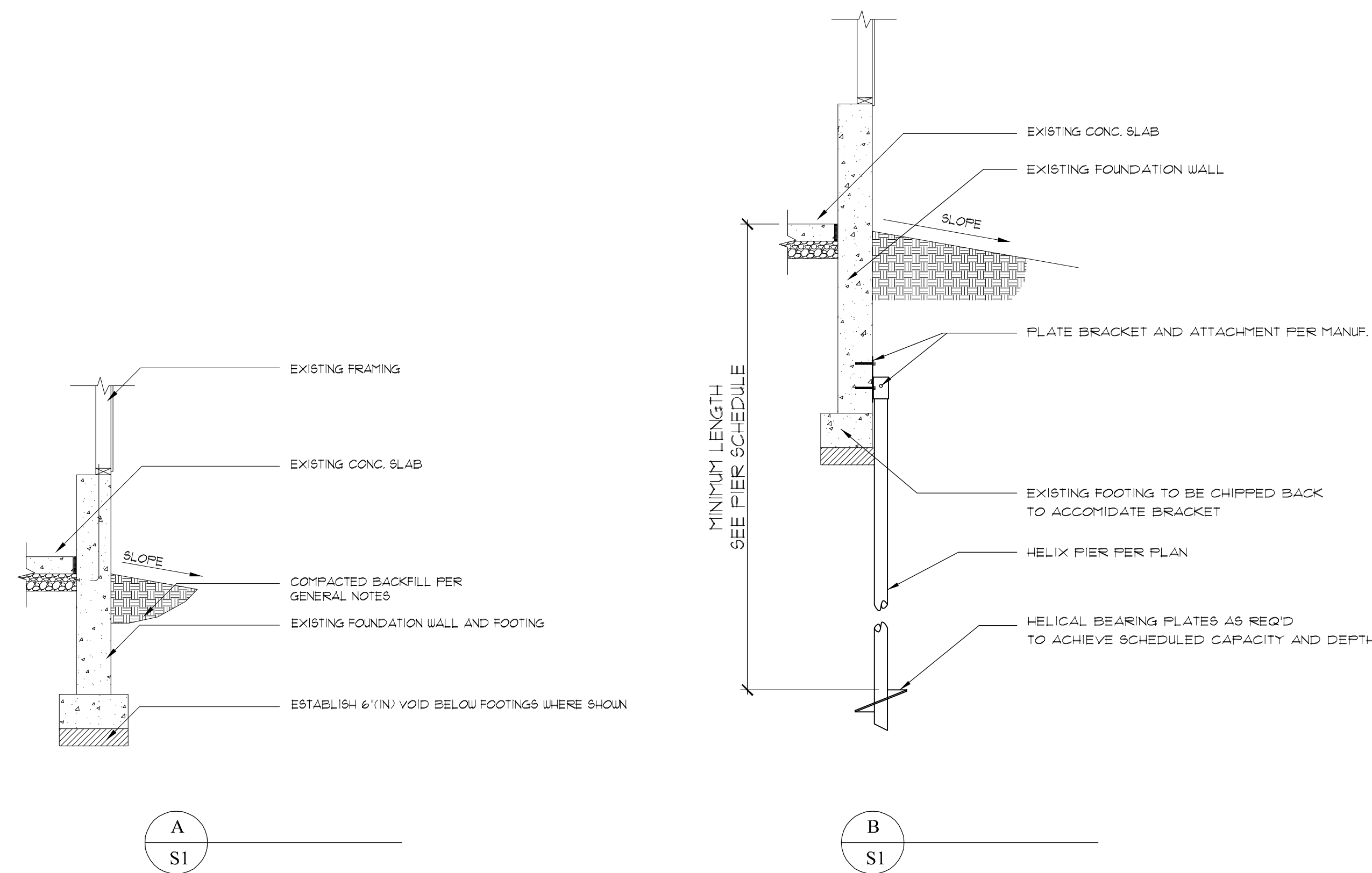
Provide and maintain positive drainage around the structure. Repair/install downspout extensions, where needed, and discharge water well away from the foundation. Re-slope the west trench drain in order to prevent ponding within the trench. Seal all tension cracks in the asphalt pavement. Re-seal periodically.

### 5. Replacement Slabs-on-grade:

Replacement slabs-on-grade should be 6" thick concrete reinforced w/ (1) #4 bar @ 18" (in) on-center each way centered in the slab. Slabs should bear on moistened and compacted subgrade and be isolated from grade beams, columns, plumbing, or other support structures by use of 1/2" (in) minimum isolation joint material. Run reinforcement thru control joints to reduce panel edge differential movements.

### 6. Limitations:

This plan is only a partial foundation repair design. It was prepared to address the areas of the structure that effect its functionality/use (i.e. doors on west and north ends). The building floor slab and other areas of the foundation will continue to move and may need to be underpinned at a later date. This plan was prepared to the level of skill and care ordinarily practiced by other engineers in this area at this time. No warrantee is expressed or implied. It is the contractors/owners responsibility to verify and coordinate all dimensions prior to construction. This partial foundation underpinning plan is based on the contractor/owner furnished plans and the above referenced specifications. Any discrepancies or changes should be brought to the attention of Magnum Geo-Solutions.



HELIX PIER SCHEDULE					
SYMBOL	QUANTITY	DESIGN CAPACITY	MIN. LENGTH	BRACKET CONNECTION	NOTES
	12	35 KIP DN OR UP	25 FEET OR REFUSAL W/ 12 K-FT TORQUE MOTOR	PLATE BRACKET PER MANUFACTURER	BLADES PER CONTRACTOR