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PROJECT NAME:

PROJECT NAME

PROJECT DESCRIPTION
 STREET ADDRESS
 CITY, STATE

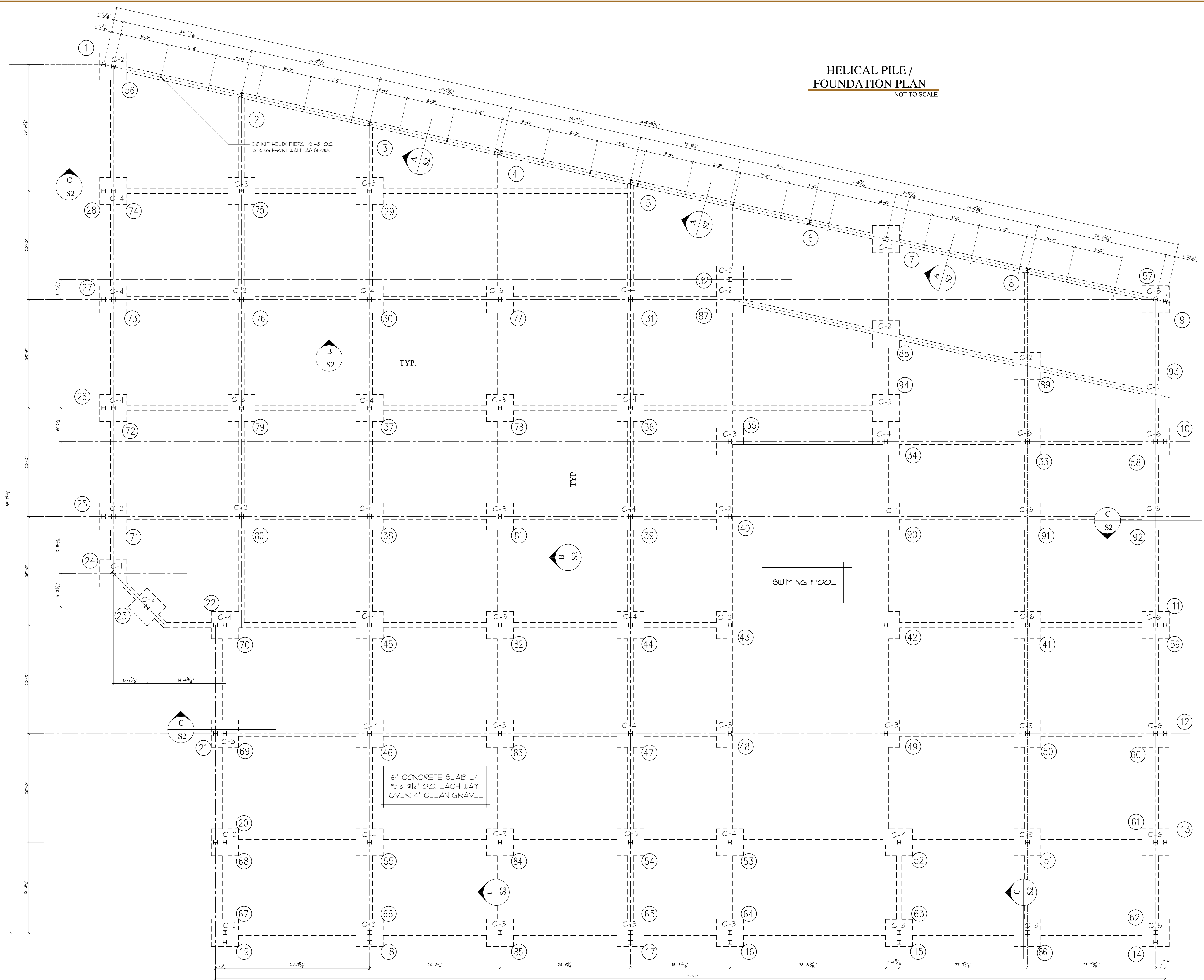
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HELICAL PILE LAYOUT & FOUNDATION PLAN

NO.	DATE	REVISION/ISSUE

DESIGNED BY: MMB DATE: 5/26/09
 DRAWN BY: MMB SCALE: AS SHOWN
 CHECKED BY: HAP
 PROJECT NO: CN8

HELICAL PILE /
 FOUNDATION PLAN
 NOT TO SCALE



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HELIX PIER CAP SCHEDULE

CASE	C-1	C-2	C-3	C-4	C-5	C-6
PLAN						
SECTION						
NO. OF PIERS	1	2	3	4	5	6
NOTES	1. EXTEND GRADE BEAM TOP & BOT. REINF. STEEL THRU PIER CAP. 2. INTERRUPT (UNSPliced) BOTTOM MIDDLE GRADE BEAM REINF. STEEL AT HELIX SHAFTS 3. SPACE HELIX PIERS MINIMUM OF 3'-0" ON CENTERS IN ALL DIRECTIONS, TYP. 4. MINIMUM DISTANCE FROM EDGE OF PIER CAP TO CENTER OF HELIX PIER = 1'-3", TYP.			5. ALL HELIX PIERS SHALL BE INSTALLED TO SUPPORT 50 KIPS DESIGN LOAD WITH A MINIMUM FACTOR OF SAFETY OF 2.0. 6. ALL HELIX PIERS TO BE 3" O.D. TUBULAR SHAFT, @ 250' WALL, AS MANUF. BY MAGNUM PIERING, INC. OR EQUAL 7. FIT ENDS OF ALL HELIX PIERS WITH GALVANIZED MP1902 GRADE BEAM CAP BY MAGNUM PIERING, INC. OR EQUAL		

Foundation Notes:

Materials:

This plan is based upon the following material properties:

Concrete: Concrete shall contain Type II cement, 6% +/- 1% air entrainment, and a minimum 28 day compressive strength of 4000 psi.

Reinforcing: Reinforcing shall be deformed grade 60 steel and shall conform to ASTM A615. Minimum concrete cover shall be 1-1/2" (R) UNO. on the plan. Overlaps shall be 36 bar diameters but not less than 24" (R). Detail reinforcing bars in accordance to the ACI detailing manual and ACI code, latest edition. All foundation wall reinforcement should be wired in place. Slab reinforcement shall utilize chairs or other acceptable methods to achieve the required cross section location.

Anchor Bolts: Foundation anchor bolts shall be as shown on Structural Plans.

Backfill:

Magnum recommends foundation walls not be backfilled for a minimum of eight days after placement of concrete. Start backfilling of foundation walls at corners. The backfill material and compaction process shall be per the geotechnical engineers recommendations. At a minimum, backfill should be adequately compacted and graded to provide adequate drainage away from the foundation.

Helical Pier Notes

1. All helix foundations and pier caps shall be as manufactured by Magnum Piering Inc. or equivalent.
2. Exterior slabs shall be isolated from the rest of the structure.
3. Helix foundation installation should be observed by a Licensed New York Engineer to verify installation torques and minimum depth.
4. All construction shall be in conformance with local Code.
5. Contractor to verify all measurements prior to construction.

Approved by Howard A. Perko, P.E.

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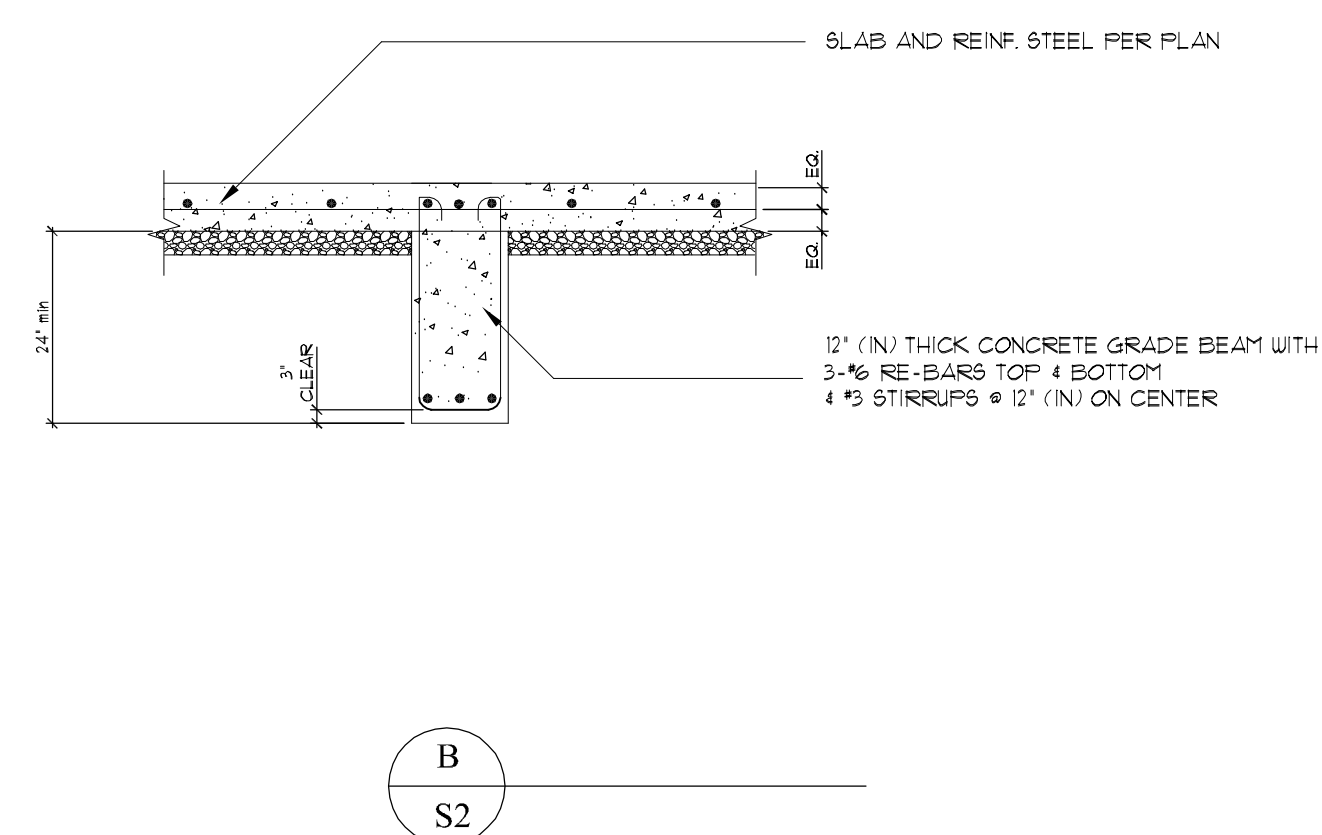
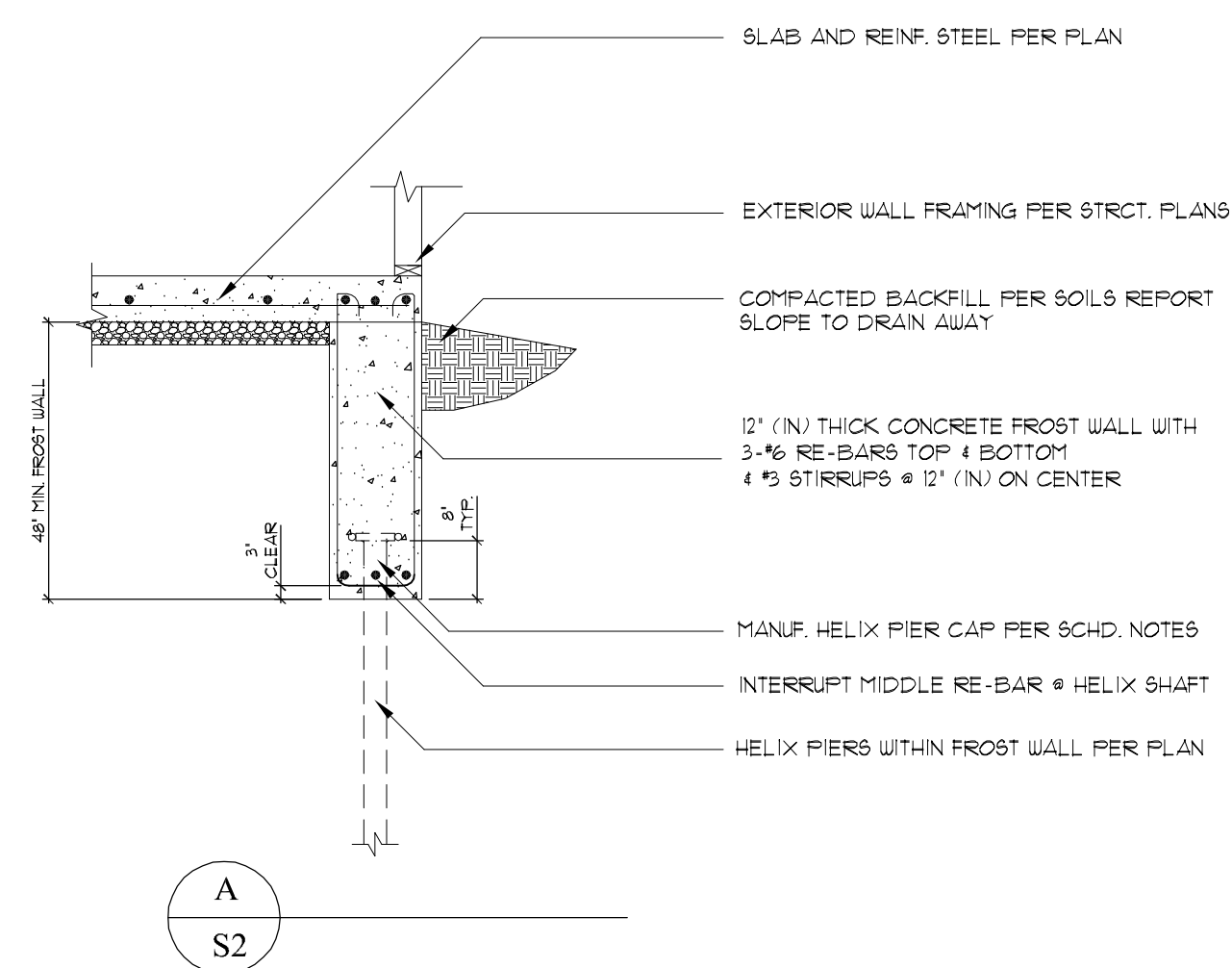
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FOUNDATION AND PILE DETAILS

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