

CONCRETE

ALL CONCRETE SHALL HAVE SAND AND GRAVEL AGGREGATE TYPE 1 PORTLAND CEMENT AND SHALL HAVE A COMPREHENSIVE STRENGTH (F'c) OF 3,000 PSI AT 28 DAYS. DRILLED FOOTINGS MAY BE 2500 PSI AT 28 DAYS.

MINIMUM CEMENT RATIO TO BE: 5 SACKS PER CUBIC YARD FOR 3000 PSI CONCRETE.

MAXIMUM AMOUNT OF FLY ASH TO BE 20% OF CEMENT WEIGHT. FLY ASH NOT TO BE SUBSTITUTED TO REDUCE MINIMUM CEMENT RATIO.

ALL CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.

DETAILING, FABRICATION AND PLACING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI SP-88, LATEST EDITION.

CONTINUOUS REINFORCEMENT FOR SLABS ON GRADE AND HORIZONTAL BARS IN FOOTINGS SHALL HAVE MINIMUM LAP AT SPLICES AS FOLLOWS (UNLESS OTHERWISE NOTED:)

*NO. 3 BARS.. 16" * NO. 4 BARS..22" * *NO. 5 BARS..27" *NO. 6 BARS.. 42" * *NO. 7 BARS...38" * *NO. 8 BARS..43"

CONTINUOUS REINFORCEMENT FOR GRADE BEAMS SHALL HAVE MINIMUM LAP AT SPLICES AS FOLLOWS (UNLESS OTHERWISE NOTED:)

*NO. 3 BARS.. 21" * *NO. 4 BARS...28" * *NO. 5 BARS...35" *NO. 6 BARS.. 42" * *NO. 7 BARS...49" * *NO. 8 BARS...59"

PROVIDE CORNER BARS EQUAL IN SIZE AND NUMBER BY FOUR FEET WITH A 90 DEGREE BEND AT THE CORNER, IN THE EXTERIOR FACE OF BEAMS AND WALLS. CORNER BARS NEED NOT TO BE LARGER THAN #5 SEE TYPICAL DETAIL FOR CORNER BARS.

REINFORCING BARS MAY NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS, (SEE SECTION 7.7 ACI 318, LATEST EDITION, FOR CONDITIONS NOT NOTED:)

ALL CONCRETE FORMED AGAINST THE GROUND..... 3" SIDES AND BOTTOMS OF GRADE BEAMS..... 3"

EXTERIOR FACE OF ALL GRADE BEAMS SHALL BE BOARD FORMED FOR ALL EXPOSED SURFACES.

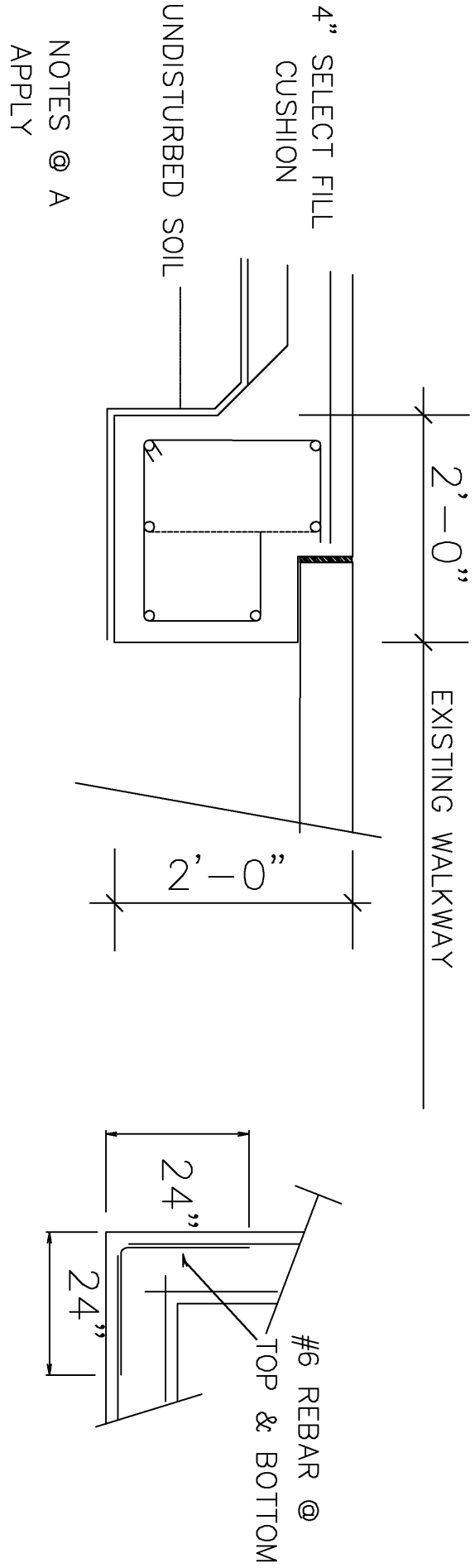
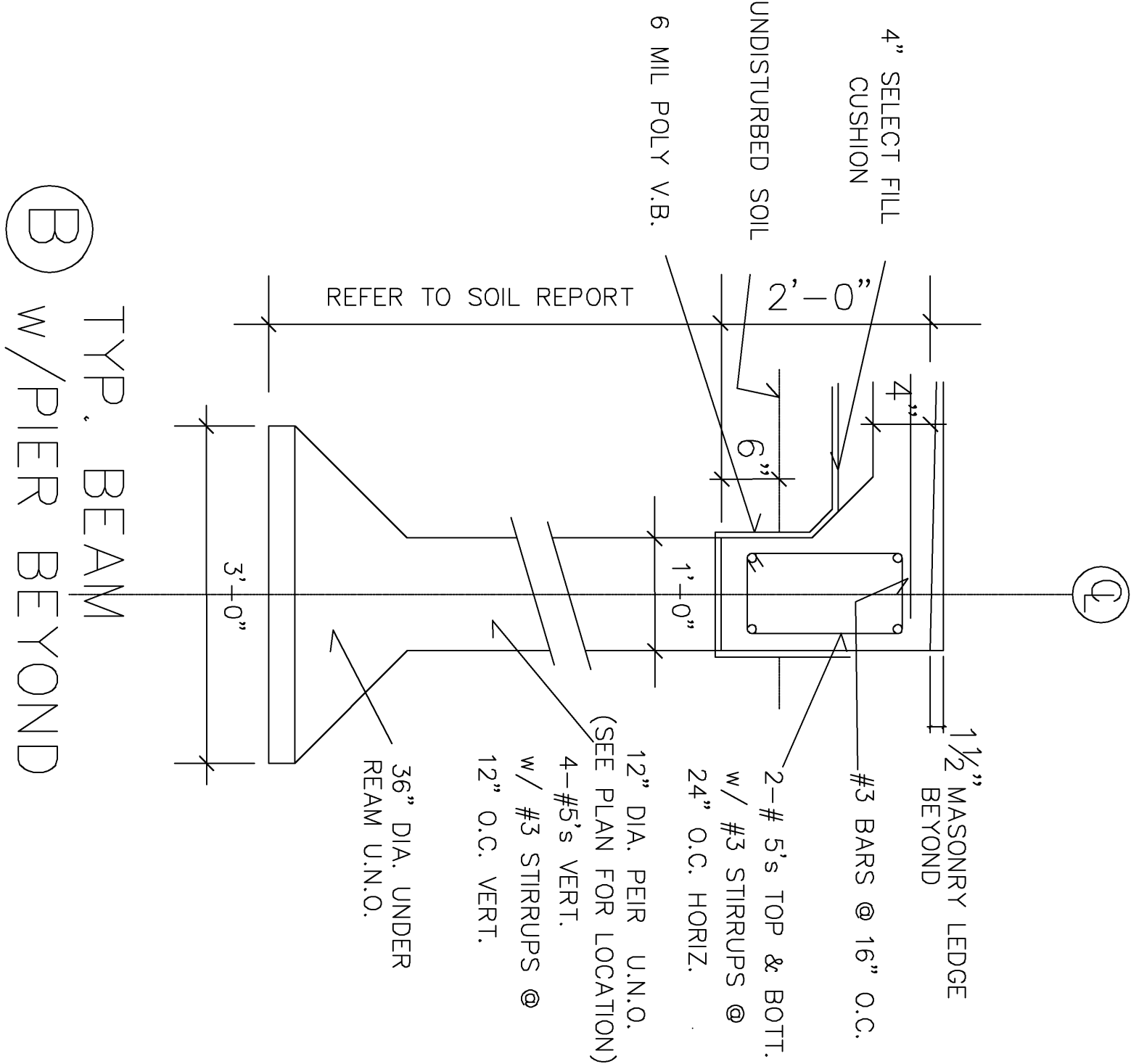
ALL MIXING, TRANSPORTING, PLACING AND CURING CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATION OF THE LATEST EDITIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 318, ACI 309, ACI 305 AND ACI 308. MAXIMUM FREE FALL FOR CONCRETE TO BE 3'-0".

NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT AT CONSTRUCTION JOINTS EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE DETAILED.

HORIZONTAL REINFORCEMENTS SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.

FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE. THIS SHALL BE A MINIMUM OF SEVEN DAYS AFTER THE CONCRETE IS POURED.

ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATION, SPADING OR RODDING, SO THAT THE CONCRETE IS THOROUGHLY WORKED AROUND THE REINFORCEMENT, EMBEDDED ITEMS, AND INTO THE CORNERS OF FORMS, ELIMINATING ALL AIR OR STONE POCKETS WHICH MAY CAUSE HONEYCOMBING. CARE SHALL BE TAKEN NOT TO OVER VIBRATE AND CAUSE SEGREGATION.



NOTES @ A

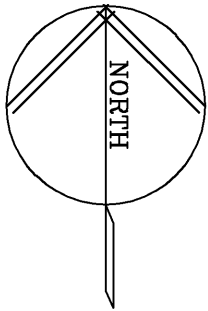
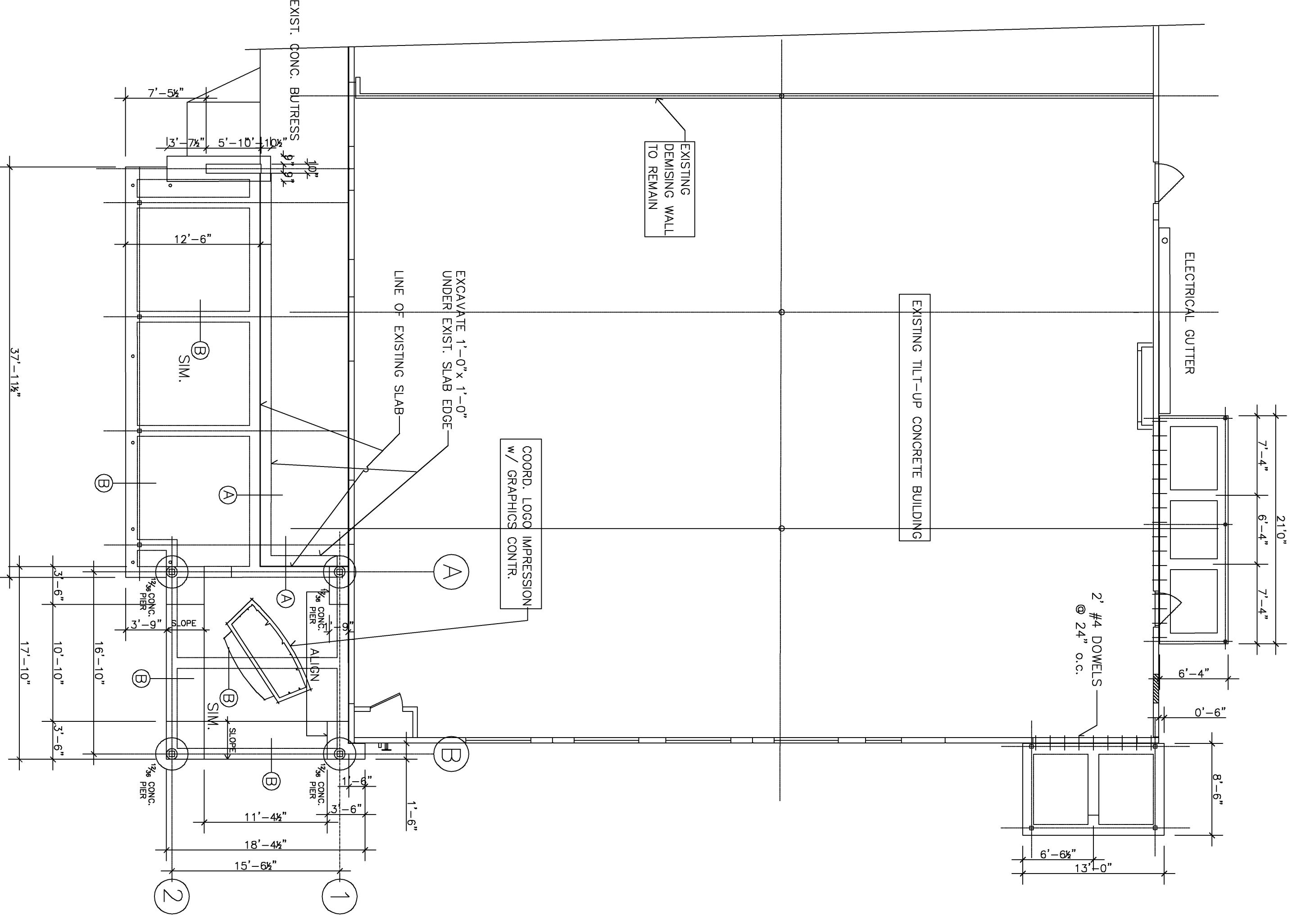
TYP. BEAM @ EXIST. WALK

TYP. BAR DETLS @ CORNER

FOUNDATION DETAILS

N.T.S.

2



CONCRETE NOTES

3

FOUNDATION PLAN

1/8"=1'-0"

1

FOR CONSTRUCTION 08.31.11.

S1.0

ISSUE LOG	
N.O.	DESCRIPTION
1	
2	
3	
4	
5	
6	

Designed by
Drawn by
Checked by

Project Name:

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Sheet Name:	
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