STRUCTURAL NOTES:

GENERAL:

CONFORM TO THE BUILDING CODE OF THE STATE OF ILLINOIS, WITH BEST INDUSTRY STANDARDS, AND ALL EXISTING CODES, REGULATIONS AND GOVERNING AUTHORITIES WHO'S APPROVAL IS REQUIRED.

THE DRAWINGS ARE CONSTRUCTION DOCUMENTS, AND AS SUCH, DICTATE THE FUNCTION AND STANDARDS THAT ARE REQUIRED TO BE MET FOR THE PROJECT. THE OWNER SHALL RECOGNIZE AND FUND ALL "CHANGE IN SCOPE" EXTRAS THAT THEY HAVE INITIATED AND APPROVED. IT IS UNDERSTOOD AND AGREED THAT FILLING IN DETAILS THAT ARE IMPLIED BY FUNCTION, SIMILAR DETAILS, OR INDUSTRY STANDARDS SHALL NOT BE A CHANGE IN SCOPE OF THE PROJECT AND SHALL NOT BE CONSIDERED EXTRA WORK. THE OWNER WILL NOT RECOGNIZE ANY REQUESTS FOR EXTRAS IN ANY CIRCUMSTANCES WHERE THEY WERE NOT INFORMED FULLY IN ADVANCE AND AGREED TO THE PROPOSED CHANGE AND THE AMOUNT.

THE ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, PLUMBING, HVAC, ELECTRICAL AND ALL OTHER DRAWINGS ARE COMPLEMENTARY. NOTES AND DETAILS ON ONE DRAWING APPLY TO ALL OTHER DRAWINGS. REFER TO ALL OF THOSE DRAWINGS FOR OTHER NOTES AND DETAILS THAT APPLY TO THE STRUCURAL DRAWINGS.

VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND WITH THE ARCHITECTURAL, FIRE PROTECTION, PLUMBING, HVAC, ELECTRICAL, AND ALL OTHER DRAWINGS BEFORE PERFORMING ANY WORK.

BEFORE STARTING ANY DEMOLITION WORK OR MODIFICATIONS TO THE EXISTING STRUCTURE, SUBMITT A PLAN DETAILING THE SEQUENCING AND TIMING OF SUCH OPERATION TO THE ARCHITECT.

SEE THE ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RATINGS, FIRE BLOCKING, FIRE STOPPING, STAIR FRAMING, BALCONY FRAMING, AND ENTRY STOOPS.

ALL SUBCONTRACTORS SHALL CO-ORDINATE THEIR WORK WITH THE WORK OF ALL OTHER ALL OTHER SUBCONTRACTOR'S. THIS APPLIES WITHOUT LIMITATIONS TO VERIFICATION OF THE LOCATIONS AND SIZES OF OPENINGS AND CLEARANCES REQUIRED FOR SPRINKLER. PLUMBING. HVAC AND ELECTRICAL WORK.

SUBMIT SHOP DRAWINGS FOR REVIEW AS FOLLOWS:

- 1. ALL SHOP DRAWINGS SHALL BE DRAWN ON 24" X 36" SHEETS.
- 2. INITALLY, SUBMIT A PDF FILE OF THE SHOP DRAWINGS FOR REVIEW. NO PRINTED COPIES ARE REQUIRED AT THE FIRST SUBMITTAL.
- 3. AFTER THE INITIAL REVIEW IS COMPLETE, MAKE THE REQUIRED CORRECTIONS AND RESUBMIT A PDF FILE FOR FINAL REVIEW.
- 4. AFTER THE FINAL REVIEW IS COMPLETE, SUBMIT A PDF FILE FOR THE RECORD AND MAKE THREE PRINTS OF THE SHOP DRAWINGS FOR THE ARCHITECT'S USE.

DESIGN LOADS:

SNOW LOADS:

	GROUND SNOW LOAD SNOW EXPOSURE FACTOR SNOW IMPORTANCE FACTOR THERMAL FACTOR FLAT SNOW LOAD RAIN ON SNOW LOAD	25 PSF 1.00 1.00 1.00 17.5 PSF 5 PSF
	WIND LOAD	
	BASIC WIND SPEED BUILDING OCCUPANY CATEGORY WIND IMPORTANCE FACTOR WIND EXPOSURE WINDWARD COEFFICIENTS INTERNAL COEFFICIENTS LEEWARD COEFFICIENTS SIDEWALL COEFFICIENTS ROOF COEFFICIENTS COMPONENT AND CLADING	115 MPH II 1.00 C +0.80 (19.2 PSF) =/- 0.18 (5.1 PSF) -0.50 (12.0 PSF) -0.70 (17.0 PSF) FIRST 10' = -0.9 SECOND 10' = 0.9 FROM 20' TO 40' = -0.5 BEYOND 40' = -0.3 SEE IBC 2012
	SEISMIC	
_	SEISMIC USE GROUP SEISMIC LOAD IMORTANCE FACTOR SEISMIC SITE CLASS	1.00
•	MAPPED SPECTRAL RESPONSE ACCELLERATION SS MAPPED SPECTRAL RESPONSE ACCELLERATION S1	0,1309

ANALYSIS PROCEDURE: EQUIVALENT LATER FORCE METHOD

2. ORDINANCE PLAIN MASONRY SHEER WALLS R 1 1/2

NET ALLOWABLE SOIL PRESSURE: 2,000 PSF (ASSUMED)

EARTHWORK:

NO GEOTECHNICAL REPORT HAS BEEN PROVIDED FOR THIS PROJECT.

1. LIGHT-FRAMED (WOOD) WALLS SEAMED WITH WOOD STRUCTURAL PANELS

ALL FOOTINGS SHALL BE FOUND ON FIRM UNDISTURBED SOIL.

THE OWNER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS TO TEST THE SOIL BEFORE PLACING ANY FOOTINGS OR SLABS. THE OWNER SHALL PAY FOR INITIAL TESTING. CONTRACTOR SHALL PAY FOR ANY RETESTING REQUIRED DUE TO FAILURE OF THEIR WORK TO MEET SPECIFICATIONS.

CAST-IN PLACE CONCRETE:

SEISMIC DESIGN CATEGORY

BASIC SEISMIC RESISTING FORCE SYSTEMS:

RATED FOR OTHER RESISTANCE $R=6\frac{1}{2}$

COMFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301-10.

CONCRETE SCHEDULE:

LOCATION	28 DAY STRENGTH	MAXIMUI SIZE COURSE AGGREG	
FOOTINGS INTERIOR FLOORS AND WALLS WALLS EXPOSED TO WEATHER EXTERIOR SLABS	3,000 PSI 4,000 PSI 4,000 PSI 4,000 PSI	3/4" 3/4" 3/4" 3/4"	AIR ENTRAINED AIR ENTRAINED

ALL CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR TYPE II.

ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.

REINFORCING BARS IN EXTERIOR LOCATIONS SHALL BE EPOXY COATED.

ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A496.

ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRATICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AS PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE. ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE LATEST "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS" AS PUBLISHED BY THE

SHOW ON REINFORCING SHOP DRAWINGS, LOCATIONS OF ALL SLAB BOLSTERS, LOW AND HIGH CHAIRS, AND ALL ACCESSORIES REQUIRED FOR ACCURATE PLACEMENT OF ALL REINFORCING STEEL.

CONCRETE REINFORCING STEEL INSTITUTE.

ALL CONCRETE ACCESSORIES, SUCH AS CHAIRS, TIESD, BOLSTERS, AND SIMILAR ITEMS THAT WILL REMAIN IN CONTACT WITH THE SURFACE OF THE CONCRETE SHALL BE PLASTIC TIPPED.

IN CONCRETE WALS, ALL HORIZONTAL AND VERTICAL BARS SHALL BE CONTINUOUS. BARS MAY BE SPLICED USING A 36 DAR DIAMETER LAP, EXCEPT IN RETAINING WALLS; WHERE VERTICAL BARS SHALL BE MADE IN ONE PIECE. VERTICAL BARS IN OTHER WALLS SHALL BE SPLICED AT FLOORS.

WHERE NO REINFORCING IS CALLED FOR, PROVIDE MINIMUM REINFORCING AS FOLLOWS:

LOCATION MINIMUM REINFORCING SLABS ON GRADE 6X6 W1.4 X W1.4 WWM @ MID THICKNESS AT OPENINGS IN WALLS 3#6 X 4'-0" LONGER THAN THE OPENING WIDTH + 2#5 X 4'-0" DIAG BARS @ EA FACE @ EA CORNE WALLS LESS THAN 10" THICK WALLS 10" THICK OR THICKER MINIMUM REINFORCING #40 12 EA WAY @ MID THICKNESS #40 12 EA WAY @ MID-THICKNESS		
AT OPENINGS IN WALLS 3#6 X 4'-0" LONGER THAN THE OPENING WIDTH + 2#5 X 4'-0" DIAG BARS @ EA FACE @ EA CORNE WALLS LESS THAN 10" THICK #4@12 EA WAY @ MID-THICKNESS WALLS 10" THICK #4@12 EA WAY, EA FACE	LOCATION	MINIMUM REINFORCING
WALLS + 2#5 X 4'-0" DIAG BARS @ EA FACE @ EA CORNE WALLS LESS THAN #4@12 EA WAY @ MID-THICKNESS 10" THICK #4@12 EA WAY, EA FACE	SLABS ON GRADE	6X6 W1.4 X W1.4 WWM @ MID THICKNESS
10" THICK WALLS 10" THICK #4@12 EA WAY, EA FACE		3#6 X 4'-0" LONGER THAN THE OPENING WIDTH + 2#5 X 4'-0" DIAG BARS @ EA FACE @ EA CORNER
,	*** ***********************************	#4@12 EA WAY @ MID-THICKNESS
		#4@12 EA WAY, EA FACE

EARTH CUTS ARE NOT PERMITTED FOR FOOTING FORMS.

UNLESS NOTED OTHERWISE, ALL WALL FOOTINGS SHALL BE 12" THICK AND 12" WIDER THAT THE WALL THEY SUPPORT AND SHALL BE REINFORCED WITH 1#5 CONTINUOUS FOR EACH 8" WIDTH OF FOOTING.

SUPPORTING STRUCTURE

2#4 CONT + #4 DOWELS @ 12" O.C. INTO

UNLESS NOTED OTHERWISE, PROVIDE 3/4" X 45 DEGREE CHAMFER ON ALL NON-REINTRANT EXPOSED CORNERS OF BEAMS, COLUMNS, WALLS, AND PIERS.

BEVELING OF INTERIOR CORNERS AND EDGES OF FORMED JOINTS OF PERMANENTLY EXPOSED SURFACES IS NOT REQUIRED.

PROVIDE CONCRETE PROTECTION FOR REINFORCING STEEL AS FOLLOWS:

LOCATION	COVER
BOTTOM OF FOOTINGS WALL FACES EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND WALL FACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND COLUMN AND PIERS, OVER TIES OR SPIRIALS	3" 1 1/2" FOR #5 AND SMALLER 3" 2" FOR #6 OR LARGER 3/4" FOR #11 AND SMALLER 1 1/2" FOR #14 AND #18 1 1/2"

REINF COVER

CURBS

CONCTRUCTION JOINTS SHALL BE PERMITTED ONLY AT THE DIRECTION OF THE ARCHITECT.

NO HORIZONTAL JOINTS SHALL BE MADE IN STRUCTURAL BEAMS OR SLABS.

CONSTRUCTION JOINTS, WHERE PERMITTED, SHALL BE MADE WITH KEYED BULKHEADS. JOINTS IN COLUMNS, PIERS, AND WALLS SHALL BE MADE AT THE UNDESIDE OF FLOORS,

SLABS, BEAMS, OR GIRDERS AND AT THE TOP OF FOOTINGS AND FLOOR SLABS.

PROVIDE FOR INSTALLATION OF EMBEDED ITEMS REQUIRED FOR ADJOINING WORK AND ITS

CONSTRUCTION JOINTS IN SLABS-ON-GRADE SHALL BE MADE WITH #4 DOWELS @

CONTROL JOINTS SALL BE SAW CUT TO A DEPTH OF ONE QUARTER OF THE THICKNESS OF THE SLAB BUT NO LESS THAN 1" WITHIN 12 HOURS AFTER THE SLAB HAS BEEN PLACED. JOINTS SHALL BE SPACED NO GREATER THAN 30 TIMES THE THICKNESS OF THE SLAB.

THE OWNER SHALL EMPLOY THE SERVICES OF A CONCRETE TESTING LABORATORY TO SAMPLE AND PERFORM CONCRETE TESTS. THE OWNER SHALL PAY FOR INITIAL TESTING. THE CONTRACTOR SHALL PAY FOR ALL RETESTING REQUIRED DUE TO FAILURE OF THEIR WORK TO MEET SPECIFICATIONS.

MASONRY NOTES:

CONFORM TO THE LATEST APPLICABLE STANDARDS OF THE AMERICAN CONCRETE INSTITUE. THE NATIONAL CONCRETE MASONRY ASSOCIATION, AND THE BRICK INSTITUTE OF AMERICA.

HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE II, TYPE N, F'c = 2,250 PSI.

MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, F'c = 2,500 PSI.

GROUT SHALL CONFORM TO ASTM C-476, F'c = 2,500 PSI

REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.

ALL BLOCK SHALL BE LAID WITH FULL HORIZONTAL AND VERTICAL FACE SHELL BEDDING.

BLOCK WEBS AT CELLS THAT CONTAIN REINFORCING SHALL BE FULL BEDDED.

BLOCK CELLS CONTAINING REINFORCING SHALL BE ALIGNED VERTICALLY AND GROUTED SOLID.

PROVIDE HORIZONTAL BOND BEAMS AT ALL FLOOR AND ROOF LINES. REINFORCE 8" WALLS WITH 2#5s CONTINUOUS. REINFORCE 12" WALLS WITH 3#5s CONTINUOUS.

VERTICAL AND HORIZONTAL REINFORCING SHALL BE CONTINUOUS EXCEPT THAT REINFORCING MAY BE SPLICED USING A LAP OF 48 BARS DIAMETERS WITH A MINIMUM LAP OF

PROVIDE DUROWALL AT 16" O.C. IN ALL BLOCK WALLS.

PROVIDE REINFORCING SHOP DRAWINGS FOR ALL BAR REINFORCING.

WHERE STEEL BEAMS OR LINTELS BEAR ON MASONRY WALLS, BEAR A MINIMUM OF 8" ON THE WALL AND PROVIDE A MINIMUM OF 8" OF SOLID MASONRY UNDER THE BEAM.

STRUCTURAL AND MISCELLANEOUS STEEL:

CONFORM TO THE LATEST APPLICABLE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

WIDE FLANGE BEAMS AND COLUMNS SHALL CONFORM TO ASTM A992 GRADE 50 EXISTING WIDE FLANGE BEAMS AND COLUMNS CONFORM TO ASTM A36

STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B FY = 46 KSI STEEL PLATES, ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36

PIPES ARE IDENTIFIED BY THEIR NOMINAL DIAMETER AND WEIGHT PER FOOT.

STD: STANDARD WEIGHT

XS: EXTRA STRONG XXS: DOUBLE EXTRA STRONG

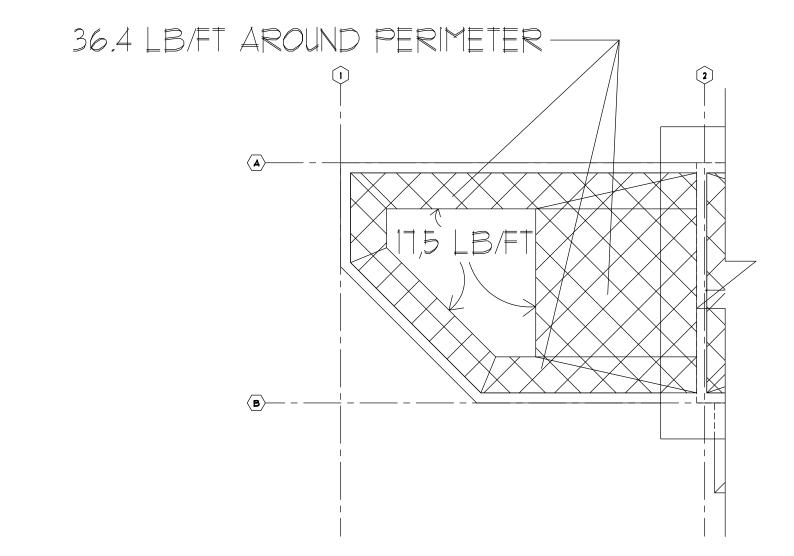
BOLTS SHALL COMFORM TO ASTM A325-X WELDING ELECTRODES SHALL CONFORM TO E70XX.

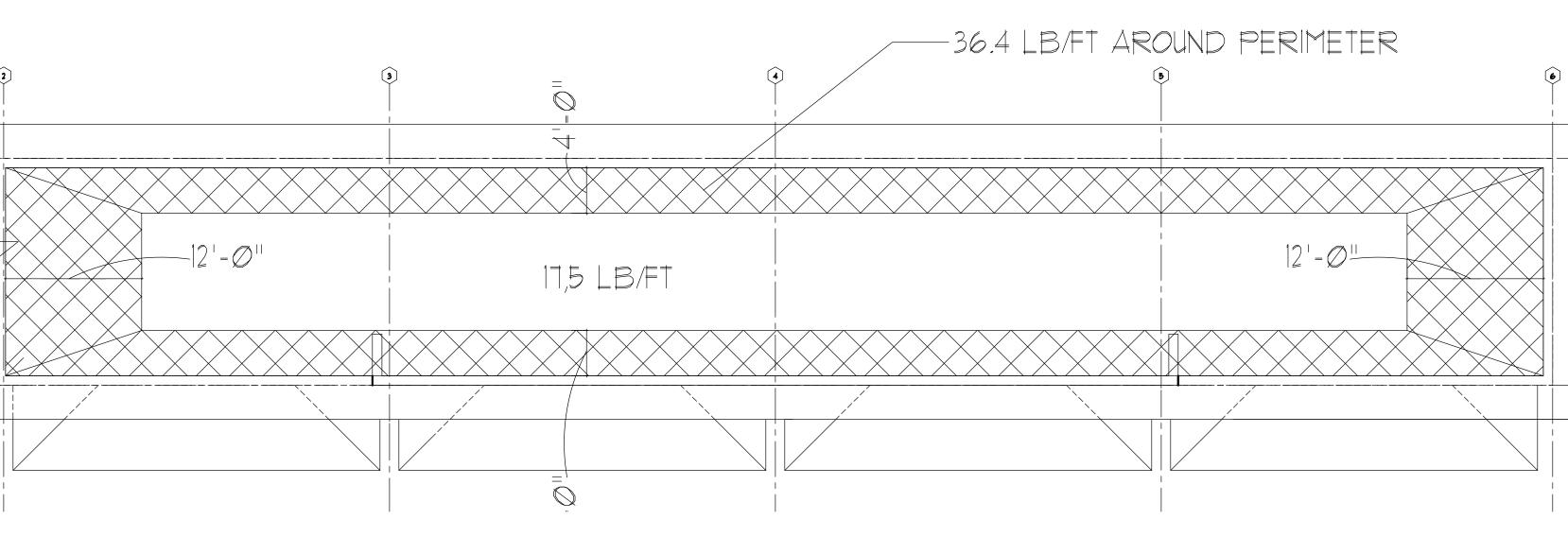
THE FABRICATOR SHALL SELECT OR COMPLETE THE CONNECTION DETAILS WHILE PREPARING THE SHOP AND ERECTION DRAWINGS. FOLLOW THE SCHEMATIC DETAILS ON THE DRAWINGS. THE LOADS SHOWN ON THE DRAWINGS ARE SERVICE LOADS. USE THE ASD METHOD TO SELECT OR COMPLETE THE CONNECTION DETAILS.

UNLESS NOTED OTHERWISE, DESIGN BEAM TO COLUMN CONNECTIONS TO CARRY ONE HALF THE TOTAL MAXIMUM UNIFORM LOAD THAT A CONTINUOSLY LATERALLY SUPPORTED BEAM OF THE SIZE INDICATED CAN CARRY OVER THE SPAN SHOWN.

PROVIDE ADJUSTABLE MASONRY ANCHORS ON BEAMS AND COLUMNS AT 16" O.C. AT EACH FACE IN CONTACT WITH THE MASONRY.

SHOP PAINT AND FIELD TOUCH UP ALL STEEL





SNOW LOADING PLAN

SCALE: 3/32"=1'-Ø"

ANIZ @ 2016 ANTONIO FANIZZA ASSOC. LTD. THESE DRAWINGS AND SPECIFICATIONS ARE PROPERTY OF ANTONIO FANIZZA ASSOC. LTD, WERE PREPARED FOR USE ON THIS SPECIFIC SITE AND FOR A SPECIFIC DATE AND SHALL NOT BE COPIED, OR REPRO-DUCED IN ANY FORM OR MEANS AVAILABLE WITHOUT WRITTEN AUTHORIZATION. UNAUTHORIZED USE IS NOT ALLOWED. IT IS FURTHER ASSUMED PRIOR OF DRAWINGS USE, ALL FEES HAVE BEEN PAID IN FULL. FAILURE TO DO SO, THE USER WILL BE RESPONSIBLE FOR ALL COURT COST AND HEREBY CERTIFY THAT THIS IPLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITEC INDER THE LAWS OF THE STATE OF ILLINOIS AND THE VILLAGE OF SKOKIE CODES AND ORDINANCE THEY ARE IN COMPLIANCE WITH ALL APPLICABLE CODES NOLLIDING THE ENVIRONMENTAL BARRIERS ACT (449-LCS) AND THE ILLINOIS ACCESSIBILITY CODE (TILL ADMICODE 409) AS SIGNIFIED BY MY HAND AND SEAL. REVISION PER CITY COMMENTS 12.19.2016 PER CITY COMMENT 01042011 PER CITY COMMENT Ø1252Ø17 CERTIFICATION AND SEAL released 10.14.2016 drawn by $_{-}$ checked by . sheet