## CUSTOM RESIDENCE:

# THE MARCUS RESIDENCE

## 2225 GREENVIEW ROAD NORTHBROOK, ILLINOIS

## ABBREVIATIONS

A D	ANOUADA				
A.D.	ANCHOR BOLI	F.D.	FLOOR DRAIN	PLYWO	PI YWOOD
A.C	AIR CONDITIONING	F.E.	FIRE EXTINGUISHER	0.00	PETWOOD
ACOUS.	ACOUSTIC	FF	FINISH FLOOR	P.S.F.	POUNDS PER SQUARE FOO POUNDS PER SQUARE INC POLYVINYLCHLORIDE QUARRY TILE
ADJ.	ADJUSTARI F	CIA	FINISH FLOOR	P.S.I.	POUNDS PER SQUARE INC
AFF	ABOVE FINISH FLOOD	rin.	FINISH	PVC.	POLYVINYI CHI ORIDE
ALI INA	ADOVE FINISH FEOUR	FIXI.	FIXTURE	Q.T.	OLIARRY THE
ALUM.	ALUMINUM	FLR.	FLOOR	R	DADILLO INCE
ALT.	ALTERNATE	ELSHG	FL ASHING	0.0	KADIUS
A.P.	ACCESS PANEL	ENID	COUNTRAL	K.D.	ROOF DRAIN
APPROX	APPROVINATE	FIND.	FOUNDATION	R &c S	ROD & SHELF
APCH	ADALITEATION	r.O.	FACE OF	REC	RECESSED
AITON.	ARCHITECTORAL.	F.S.	FOOTING SUMP	REFR	PEEDICEDATOD
<b>@</b>	AT	FTG.	FOOTING	DEC.	REPRIBERATOR
<u> </u>	ANGLE	FHRN	FLIDNIACE	NEG.	REGULAR
BD	BOARD	C 4	CALICE	KEINT.	REINFORCE
RI	RUIL T_IN	GA.	GAUGE.	RM.	ROOM
BIDC	DUCT-IN	GALV.	GALVANIZED	R.O.	ROUGH OPENING
DLDG.	BUILDING	G.F.I.	GROUND FAULT INTERRUPT	PP	PACE DAFTEDO
BOT.	BOTTOM	GLU-LAM	GILLE LAMINATED REAM	CCCT	ROOF KAFIERS
B/	BOTTOM OF	CAD FVIA	CYDCI IM	SEU1.	SECTION
BRG.	REARING	GIP.	UICAD	SHLV.	SHELVES
BRC D	DEADING DI ATT	HD	HEAD	SHT.	SHEET
DIG. PL.	DEARING PLAIL	HDR.	HEADER	SHWR	SHOWER
D.U.K.	BUILT UP ROOFING	HT.	HEIGHT	CHTC	SHOWER
CRPT.	CARPET	HM	HOLLOW METAL	SHID.	SHEATHING
CABT.	CABINET	11101	HOLLOW METAL	SIM.	SIMILAR
CI	CAST IDON	HURZ.	HURIZON I AL.	SL.	SLIDING
Č"i	CCH IND INCTO	H.P.	HIGH POINT	SPEC.	SPECIFICATION
C. U.	CEILING JOISTS	HTG.	HEATING	SO	COLLABE
C.J1.	CONSTRUCTION JOINTS	HVAC	HEAT VENTUATE AIR CONDITIONING	5. Q.	SWOARE
Ģ	CENTER LINE	INICHI	INCLUATION	3.3.	SANITARY SUMP
CEG.	CELLNG	INJUL.	INSULATION	SID.	STANDARD
CLO	CLOSET	IN I.	INTERIOR	STL.	STEEL
CALL	DONOBETE MAGONEN AND	<u>L</u> .	LINEN	STOR.	STORAGE
C.M.U.	CONCRETE MASONRY UNIT	LAM.	LAMINATE	STRUCT	STOLLOTLIDAL
C.O.	CASED OPENING	LAV.	LAVATORY	CHED	CHORENDER
COŁ.	COLUMN	£ 1	LIVE (CAD	30 SF.	SUSPENDED
CONC.	CONCRETE	L.D.	LIVE LUAD	<u>l</u> .,&x ₺.	TOP & BOTTOM
CONST	CONSTRUCTION	L.P.	LOW POIN!	T/	TOP OF
CONT	CONTINUOUS	MAX.	MAXIMUM	TÉL.	TELEPHONE
CON I.	CONTINUOUS	M.C.	MEDICINE CARINET	T & C	TONCHE & ODOONE
C. 1.	CERAMIC TILE	MECH	MECHANICAL	Thuic	TONGOE & GROUVE
C.W. (	COLD WATER	MED	MEDITAL	Trin.	THICK
DEMO. I	DEMOLITION	WILD.	MEDIUM	10	TRUSS JOIST
DIA	DIAMETER	MIN.	MINIMUM	T.O.P.	TOP OF PLATE
בות.		MISC.	MISCELLANEOUS	T. V.	TELEVISION
DIAG. L	DIAGONAL	M.L.	MICROLAM	TYP	TYDICAL
אור. [	DIMENSION	M.O.	MASONRY OPENING	11.0	TIFICAL
DISP. [	DISPOSAL	MPDI	MADDLE	U.U.	UNDER COUNTER
DIV. Î	DIVISION	MITOL.	MARDLE	U.O.N.	UNDER COUNTER UNLESS OTHERWISE NOTED VINYL COMPOSITION TILE
N.	DOWN	MIL.	METAL	V.C.T.	VINYL COMPOSITION THE
2000		M.W.	MICROWAVE	VERT.	VERTICAL
7 MAG 2' [	UKAWINGS	N.I.C.	NOT IN CONTRACT	VIE	VEDIEN IN EIGH
J.S. [	DOWNSPOUT	NO.	NUMBER	\A( /	VERTET IN FIELD
D.W. [	DISHWASHER	NOM	NOMBLA	w. /	WilH
ĒA. Ē	EACH	NUM.	NOMINAL	w.C.	WATER CLOSET
YIST	EXISTING	N. 1.5.	NOT TO SCALE	MC	WALK-IN CLOSET
	CATEDIAD INCHESTOS COMO CONTRA	O.	OVEN	WD.	WOOD
	EXTERIOR INSULATION FINISH SYSTEM	O. A.	OVER ALL	WDO	MANDOW
XP. E	EXPANSION	0.0	ON CENTED	VALUE OF THE PARTY	WINDOW
LECT. E	ELECTRICAL	OPP	ON CENTER	WT 1	WATER HEATER
	TEVATION	OPP.	OPPOSITE	W. /O.	WITHOUT
TIEV C	v /> 11Q/N	OPT.	OPTION AL	W.P.	WATERPROOF
LEV. E	COLUDATALE				
LEV. E	EQUIPMENT	PERF.	PERFORATED	WT	WEIGHT
LEV. E QUIP. E QUIV. E	ANCHOR BOLT AIR CONDITIONING ACOUSTIC ADJUSTABLE ABOVE FINISH FLOOR ALUMINUM ALTERNATE ACCESS PANEL APPROXIMATE ARCHITECTURAL AT ANGLE BOARD BUILT—IN BUILDING BOTTOM BOTTOM OF BEARING BEARING PLATE BUILT UP ROOFING CARPET CAST IRON CEILING JOISTS CONSTRUCTION JOINTS CENTER LINE CEILNG CLOSET CONCRETE MASONRY UNIT CASED OPENING COLUMN CONCRETE CONSTRUCTION CONTINUOUS CERAMIC TILE COLD WATER DEMOLITION DIAMETER DEMOLITION DIAMETER DIAGONAL DIMENSION DOWN DRAWINGS DOWNSPOUT DISH WASHER EACH EXISTING EXTERIOR INSULATION FINISH SYSTEM EXPANSION ELECTRICAL ELECTRICAL ELECTRICAL ELECTRICAL EACH WAY	PERF. PL.	PERFORATED PLATE	WT.	WEIGHT

LOCATION	PLAN		
		-	

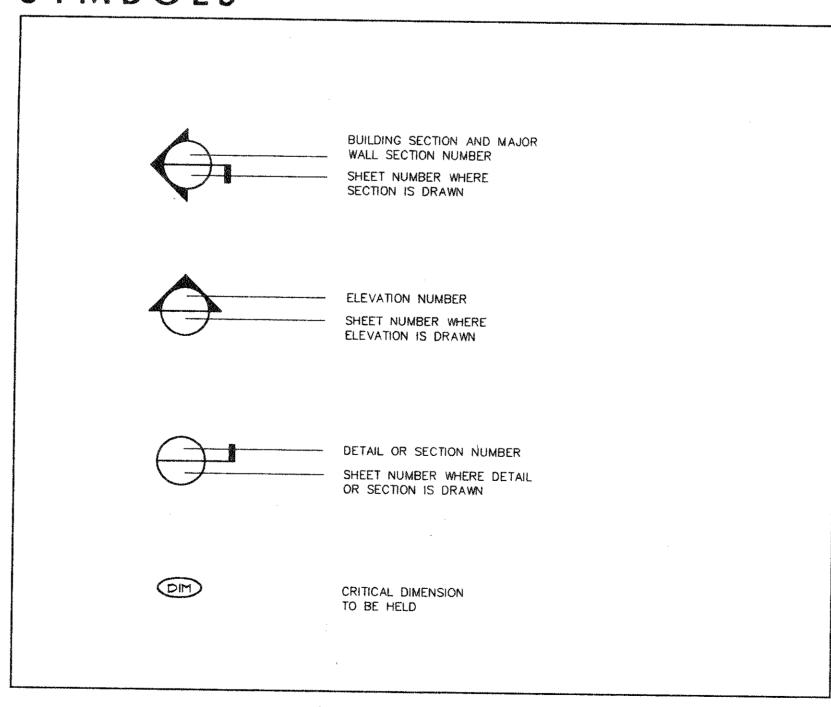
## LIST OF DRAWINGS

A1 A2 A3 A5 A6 A7 A9 A1 A1	COVER SHEET SITE PLAN, DETAILS FOUNDATION PLAN (SOUTH SIDE) FOUNDATION PLAN (NORTH SIDE) FLOOR PLAN (SOUTH SIDE) FLOOR PLAN (NORTH SIDE) SCHEDULES - COLUMN, LINTEL, DOOR, & WINDOW ELECT. MECH FLOOR PLAN (SOUTH SIDE), LIGHT & VENT SCHEDULE, ELECT. MECH FLOOR PLAN (NORTH SIDE), PLUMBING RISER DIAGRAMS EXTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS, ROOF PLAN, DETAILS INTERIOR ELEVATIONS SPECIFICATIONS

## MATERIALS

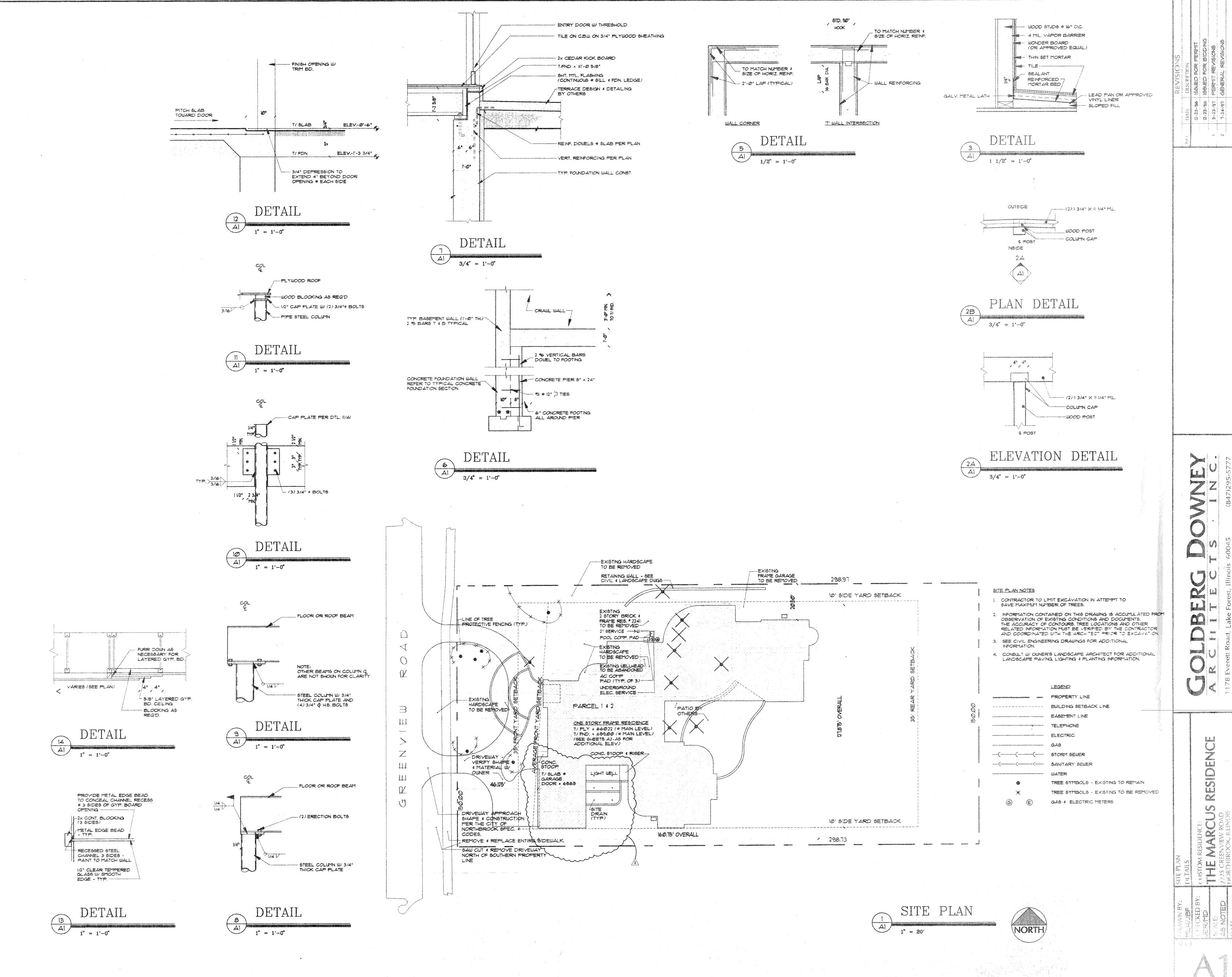
TOP SOIL	FULL HEIGHT PARTITION
FACE BRICK	ALUMINUM
CONCRETE MASONRY UNIT	STEEL
 CONCRETE	BATT INSULATION
ROUGH WOOD	RIGID INSULATION
PLYWOOD	GYPSUM WALL BOARD
FINISH WOOD	GRANULAR FILL
 LOW HEIGHT PARTITION	EARTH
STONE	

## SYMBOLS



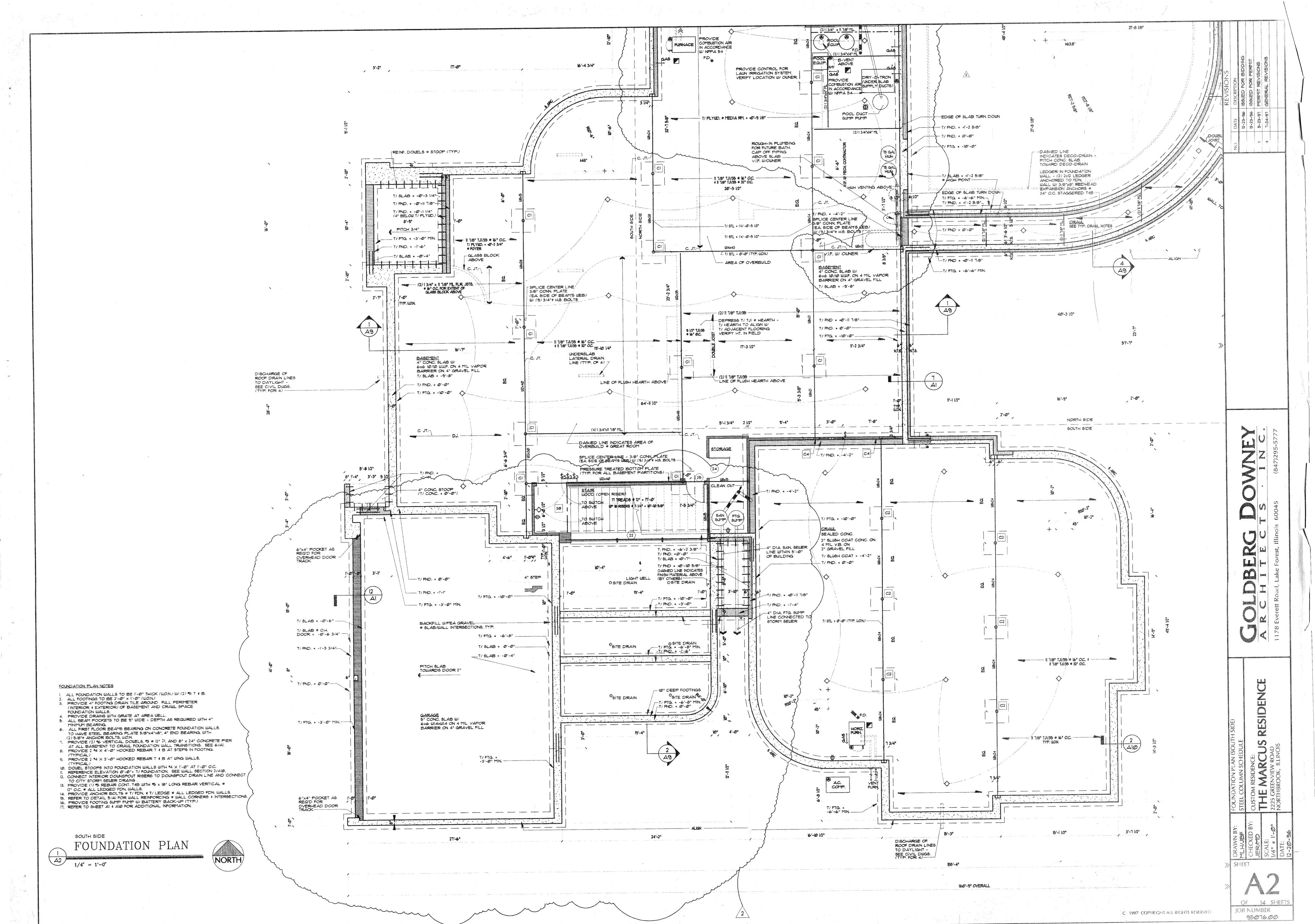
### GENERAL NOTES

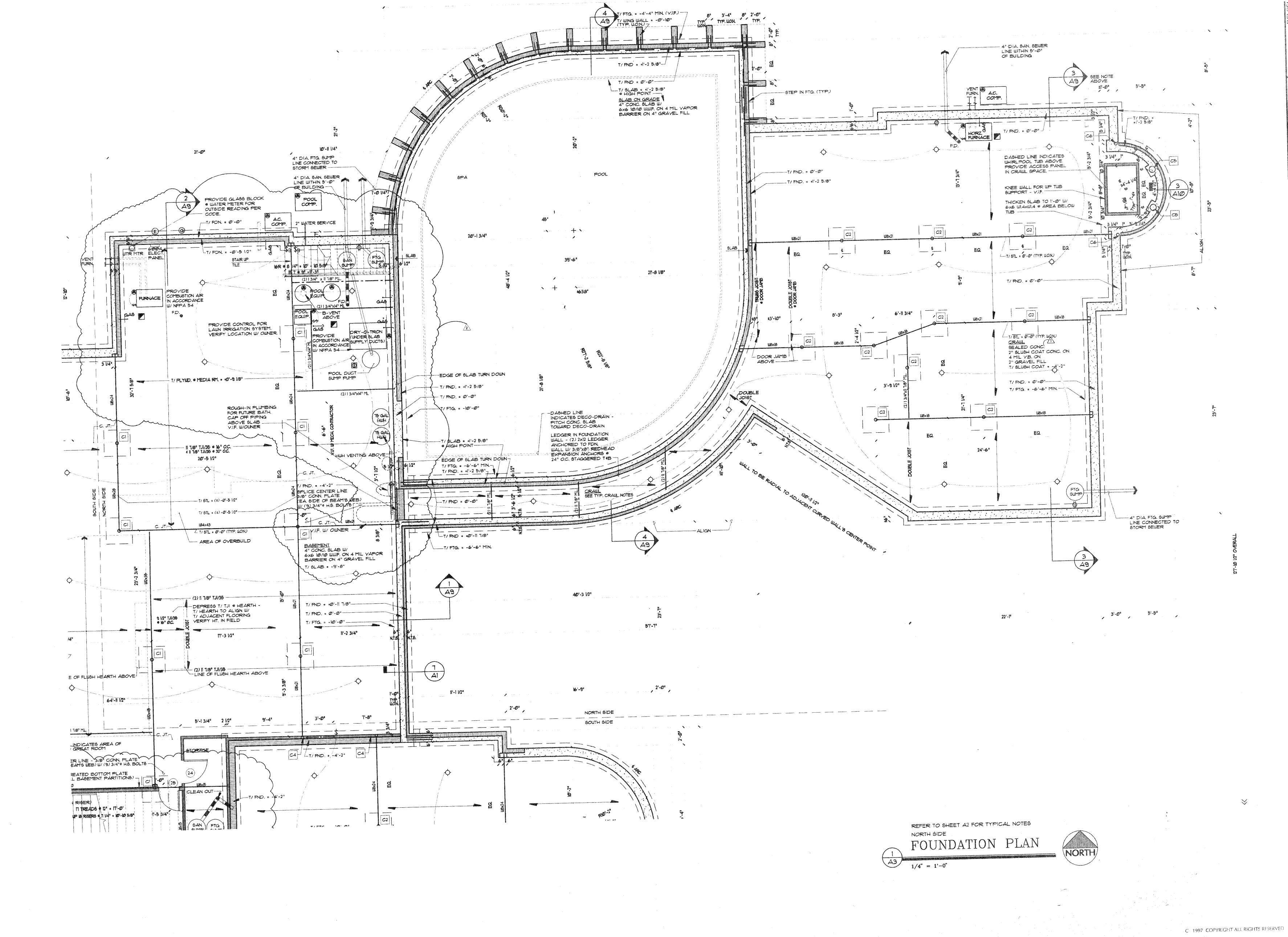
•	THE WORK CONTAINED IN THESE CONSTRUCTION DOCUMENTS SHALL BE PERFORMED UNDER ALA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" (LATEST EDITION).	14.	SHOP DRAWING REVIEW. ARCHITECT WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY
	ON SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.		ARCHITECT REFORE SUBMITTING A SUDD DRAWING OR ANY OF ATTENDED
	NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE.		TO ARCHITECT, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS
	THE PROJECT ARCHITECT OF GOLDBERG DOWNEY ARCHITECTS.INC. SHALL BE NOTIFIED SHOULD ANY DISCREPANCY OR QUESTIONS ARISE PERTAINING TO THESE DRAWINGS. NO CHANGE SHALL BE MADE WITHOUT REVIEW BY THE ARCHITECT.		CONTRACTOR: APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. ARCHITECT SHA ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION LINESS CONTRACTOR ADVISES A POLYSTORY OF THE STATE OF THE
	ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.		THE SHOP PRAWINGS AND RELATED MATERIAL (IE AND CALLED FOR ARE
	ALL EXTERIOR FRAME DIMENSIONS ARE TO FACE OF SHEATHING UNLESS NOTED OTHERWISE.		INDICATED BELOW. IN THE EVENT THAT ARCHITECT WILL REQUIRE MORE THAT TEN (10) WORKING DAYS TO PERFORM REVIEW, ARCHITECT SHALL SO NOTIFY CONTRACTOR.
	ALL EXTERIOR MASONRY DIMENSIONS ARE TO FACE OF MASONRY.		TEM: TJI LAYOUT, ROOF TRUSSES, STRUCTURAL STEEL, HVAC SYSTEM,
	ALL WORK PERFORMED AND MATERIALS USED SHALL COMPLY WITH THE FOLLOWING:		WINDOWS, CABINETRY, FINISHED STAIRS, POOL AND SPA, RAILS AND GUARDS AND CUT STONE.
	A. CABO 1992 AND VILLAGE OF NORTHBROOK AMENDMENTS.		ARCHITECT SHALL RETURN SHOP DRAWINGS AND RELATED MATERIALS WITH COMMENTS PROVIDED THAT EACH SUBMISSION HAS BEEN CALLED FOR AND IS
	<ul> <li>ALL APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.</li> </ul>		STAMPED "APPROVED" BY CONTRACTOR AS INDICATED ABOVE. ARCHITECT SHALL RETURN WITHOUT COMMENT MATERIAL NOT CALLED FOR OR WHICH HA NOT BEEN APPROVED BY CONTRACTOR.
	C. MANUFACTURERS' SPECIFICATIONS AND TRADE ASSOCIATIONS' RECOMMENDATIONS.	15.	THE FOLLOWING ARE NOT INCLUDED IN THE SCOPE OF WORK UNDER THESE CONTRACT DOCUMENTS.
	D. ACCEPTED ENGINEERING AND CONSTRUCTION PRACTICES.		A. CABINETRY AND BUILT-INS
	ALL CONTRACTORS SHALL VISIT JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING BIDS.		B. COUNTERTOPS C. APPLIANCES D. CARPETING
	ALL WORK SHALL BE PERFORMED IN A GOOD WORKMANLIKE MANNER. CONTRACTORS TO REMOVE THEIR DEBRIS AND LEAVE THE JOB SITE BROOM SWEPT AT THE END OF EACH WORKING DAY.		E. FLOOR AND WALL TILES F. RESILIENT FLOORING G. HARDWARE H. BATH ACCESSORIES
	CONTRACTORS SUBMITTING A RID WITH A RECOURT SUBSTITUTION CHALL OF		I. PLUMBING FIXTURES/STEAM GENERATOR
	REQUIRED TO SUBMIT MANUFACTURER'S PRODUCT DATA AND SAMPLES (WHERE APPROPRIATE) AT THE TIME OF BID SUBMISSION. ANY PRODUCT SUBSTITUTION		J. MIRRORS K. SHOWER ENCLOSURES AND DOORS
	OWNER/GENERAL CONTRACTOR AGREEMENT WILL NOT BE ACCEPTED.		L. CLOSET SHELVING AND BUILT-INS M. FIREPLACE SURROUND, HEARTHS, MANTELS AND GLASS DOORS N. AUDIO/VISUAL SYSTEMS
	CONTRACTORS SUBMITTING CHANGE ORDER PROPOSALS SHALL INCLUDE DOCUMENTATION OF LABOR AND MATERIAL BREAKDOWNS DETAIL TO SUPPORT COSTS (I.E. HOURLY RATES, UNIT COSTS, MATERIAL AMOUNTS, ETC.). CHANGE ORDERS SUBMITTED WITHOUT BREAKDOWNS WILL BE RETURNED WITHOUT REVIEW. CHANGE ORDERS MUST BE APPROVED IN WRITING BY OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF CHANGE IN THE WORK.		O. TELEPHONE SYSTEM P. SECURITY SYSTEM Q. DOORBELL AND CHIMES R. LIGHT FIXTURES S. RECESSED IRONING BOARD T. PATIOS/TERRACES
	OWNER WILL CAUSE THE ARCHITECT/ENGINEER, THEIR CONSULTANTS AND EMPLOYEES TO BE NAMED AS ADDITIONAL NAMED INSUREDS DUBER THE		U. FENCING (EXCEPT FOR TEMPORARY PROTECTIVE FENCING) V. EXTERIOR SPRINKLER SYSTEM W. LANDSCAPE LIGHTING
	BUILDERS RISK INSURANCE APPLICABLE TO THE PROJECT.		X. SIDEWALKS/DRIVEWAYS Y. FINISH GRADING, BLACK DIRT, AND LANDSCAPING
			INSTALLATION FOR ITEMS C, G, H, I, Q, R AND S ARE INCLUDED AS WELL AS FINAL CONNECTION FOR ITEMS C, I, Q, R AND S.



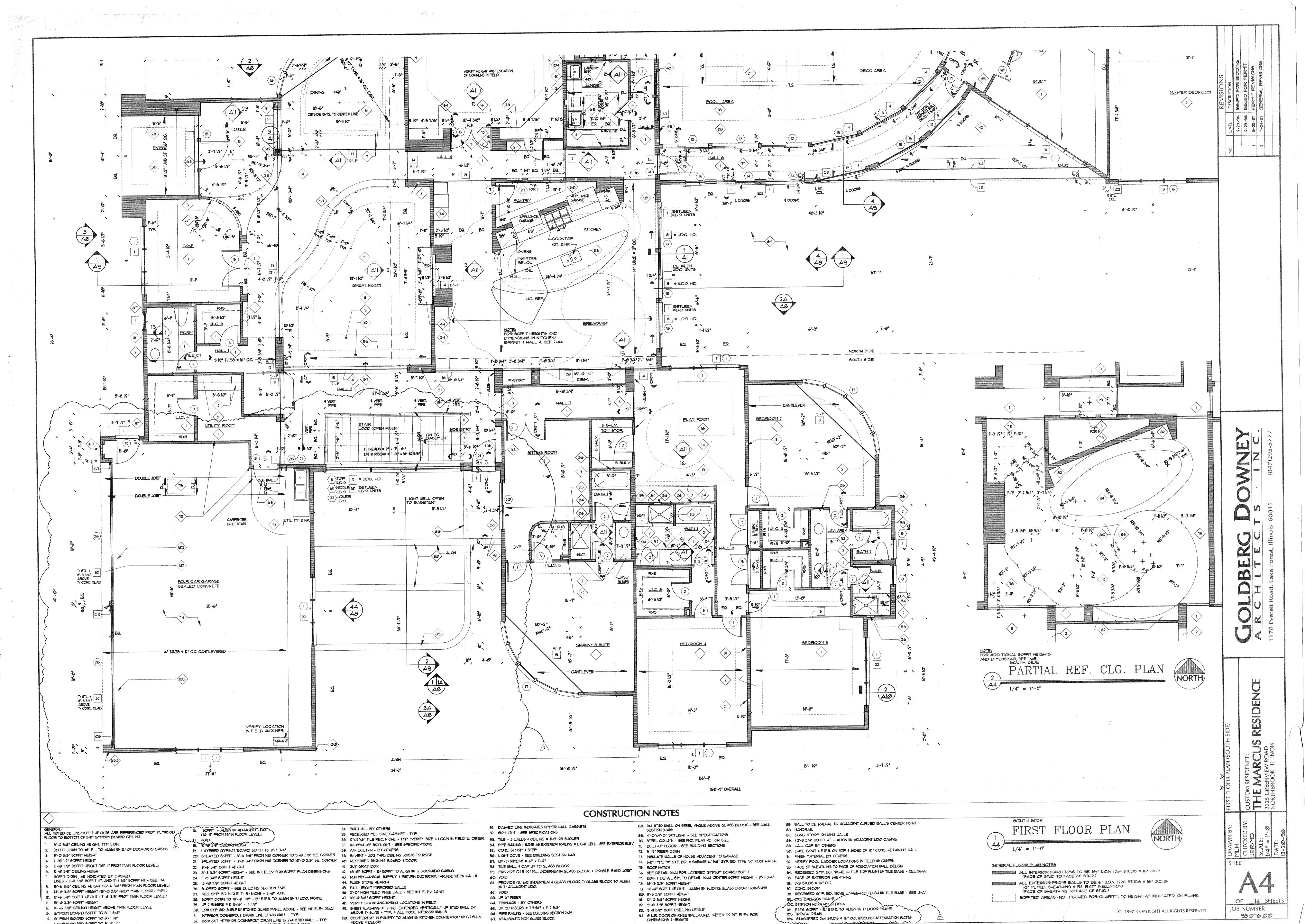
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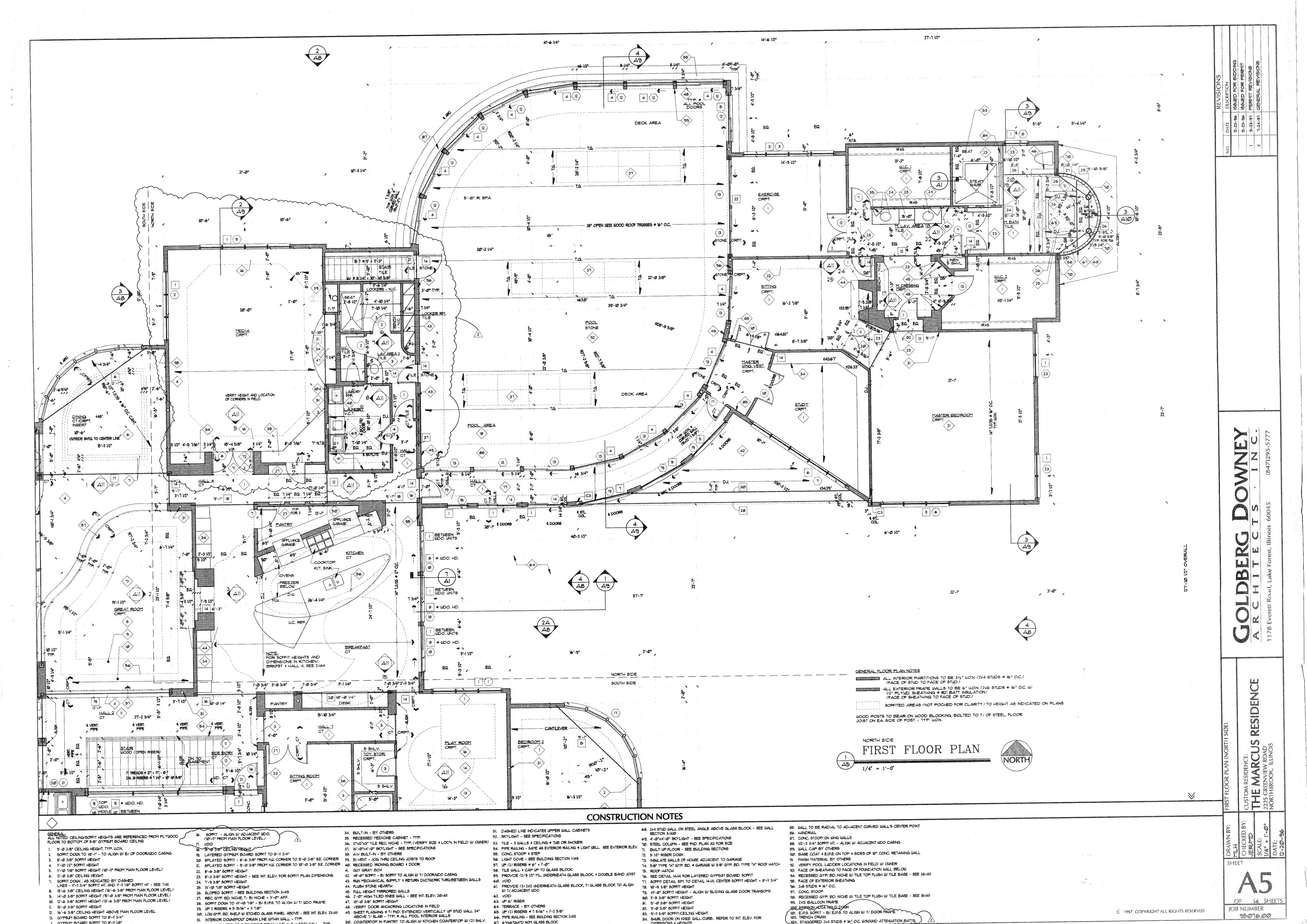
HENDER PARTY.



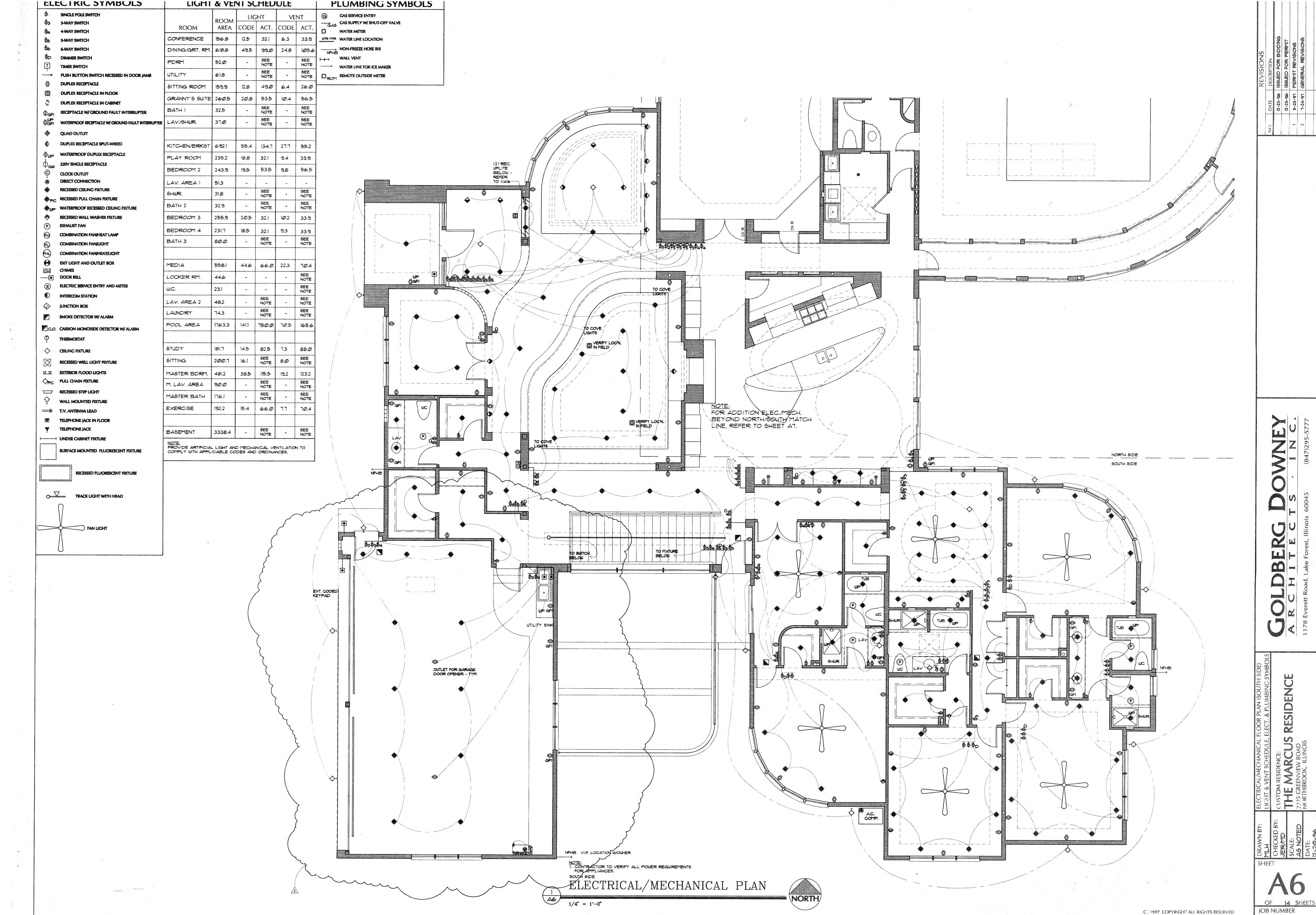


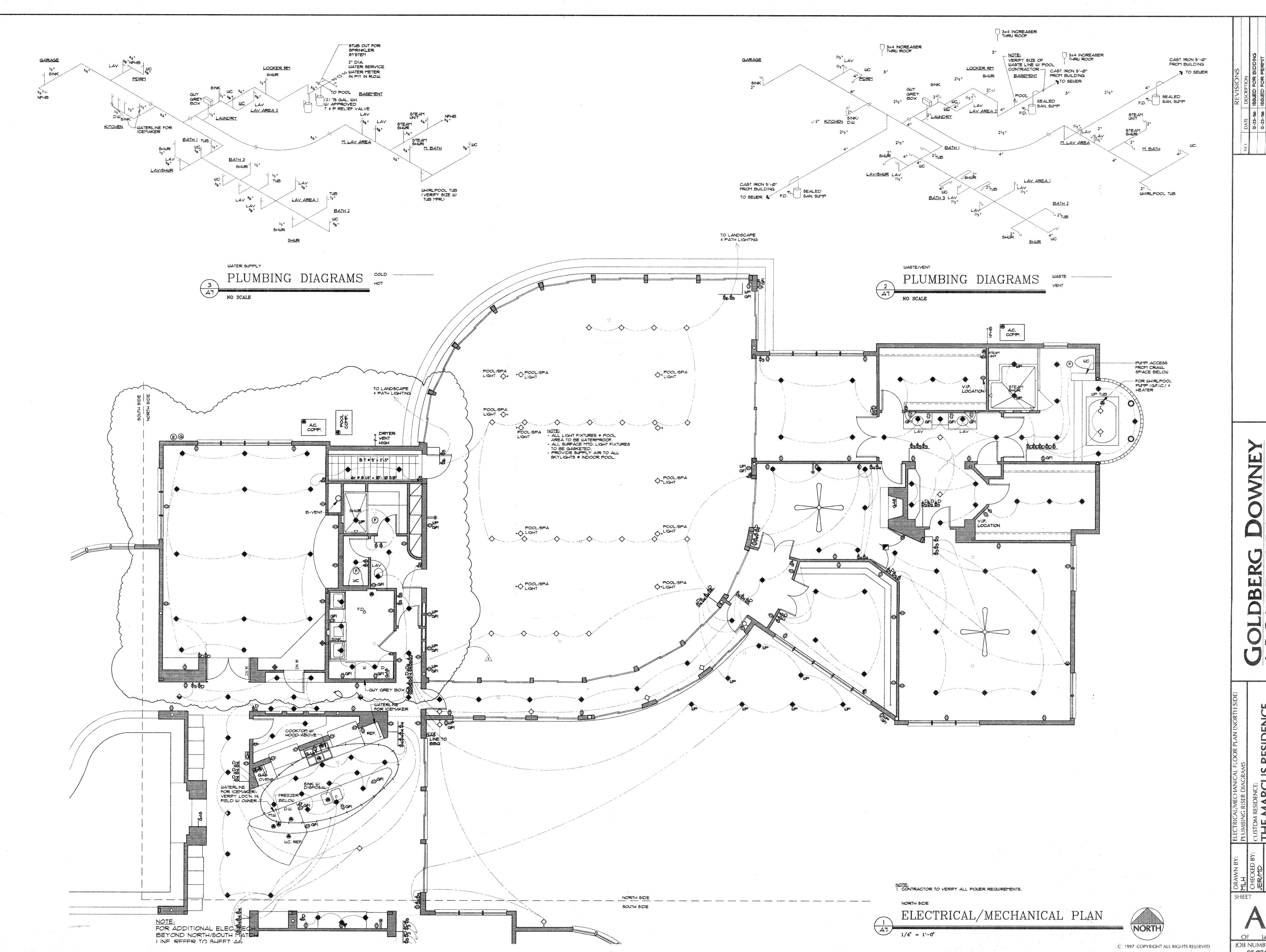
OF 4 SHEETS JOB NUMBER 35076.00



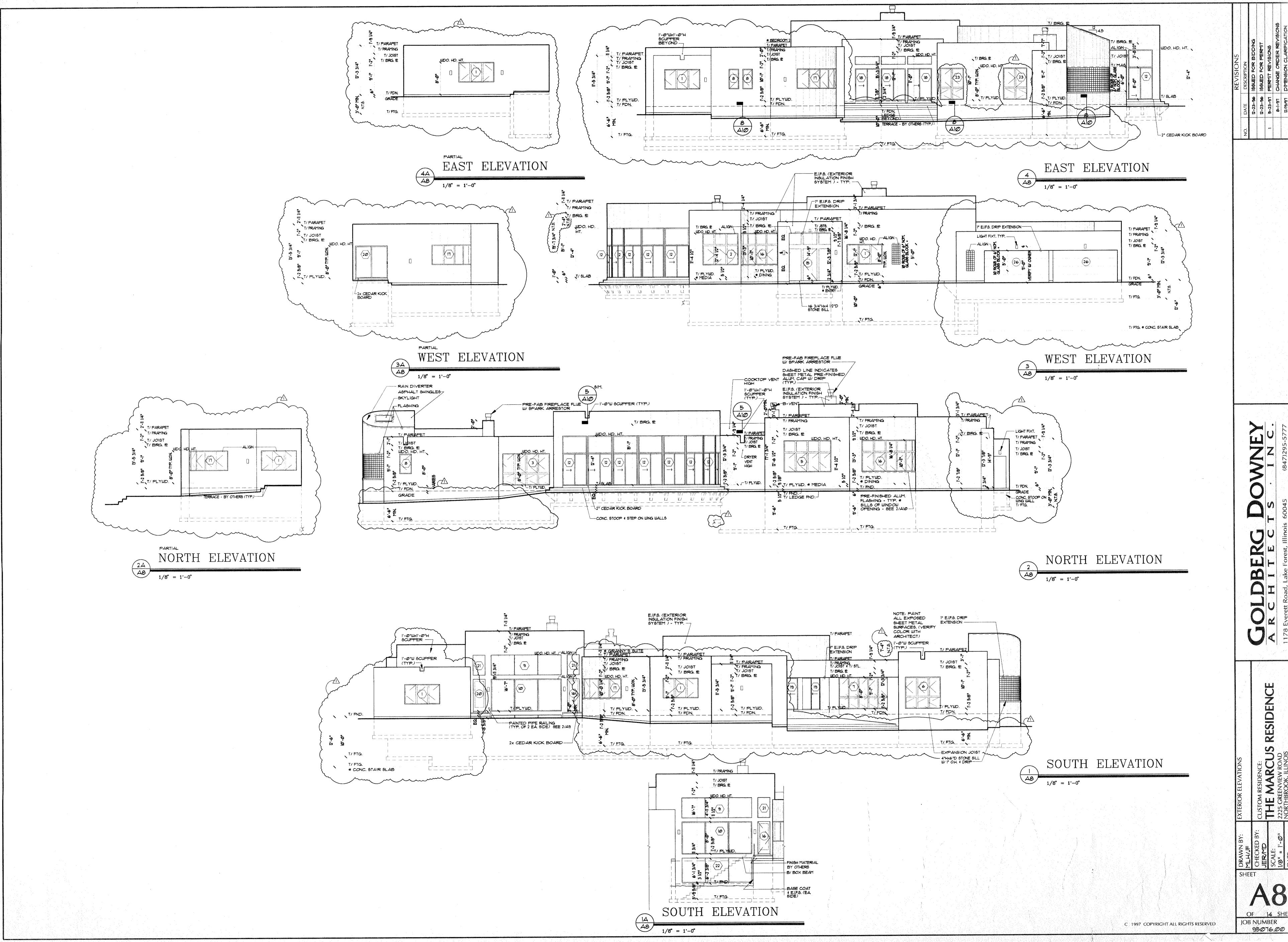


TOP CONNECTION  NO. NOM. SIZE O.D. STEEL CAP PLATE ANCHOR  CI 4" 4 1/2" 3/4" (4) 3/4  C2 3 1/2" 4" 3/4" (4) 3/4  C3 5"x5"x5/6" - 3/4" SEE DTL. 8/  C4 4" 4 1/2" 3/4" (4) 3/4  C5 8" 8625" 1/2", W/ 3/6" FILLET WELD (2) 3/4"  C6 4" 4 1/2" 3/4" (4) 3/4  C7 TUBE STEEL 5"x5"x5/6" - 3/4" SEE DTL. 8/  C8 5"x5"x5/6" - 3/4" SEE DTL. 8/  C9 TUBE STEEL 5"x5"x5/6" - 3/4" SEE DTL. 8/  C9 GENERAL NOTES:  I. WELD STEEL COLUMN TO TOP PE W/ 1/4" FILLET WELD - ALL	74" DIA 3/4" × 10" × 10" (4) 3/4" DIA 1'-0"×4'-0  74" DIA 3/4" × 10" × 10" (4) 3/4" DIA 1'-0"×3'-0  8/AI OR 9/AI 5/8"×5 1/2"×12" (4) 3/4" DIA BEAR O  4" DIA 3/4" × 10" × 10" (4) 3/4" DIA 1'-0"×3'-0  4" DIA 3/4" × 10" × 10" (4) 3/4" DIA 1'-0"×3'-0  4" DIA 3/4" × 10" × 10" (4) 3/4" DIA 1'-0"×3'-0  8/AI OR 9/AI 5/8"×5 1/2"×12" (4) 3/4" DIA BEAR OI  8/AI OR 9/AI 5/8"×5 1/2"×11 1/2" (4) 3/4" DIA BEAR OI  8/AI OR 9/AI 5/8"×5 1/2"×11 1/2" (4) 3/4" DIA BEAR OI	N FND. WALL - SEE 8/AI AND 9/AI  1/2" ♦ × 1 1/2" LONG ● 2'-Ø" O.C. VERTICALL"  SEE 8/AI AND 9/AI	
LOOSE LINTEL  NO. DESCRIPTION BEARING AT E  1 (3) 2x/2 (2/2x/6) FULL HT (2/2x/6)  2 (3) 1 3/4*/16" ML PARALLAM PARALLAM  3 (3) 1 3/4*/11 1/4" ML (2/2x/6) FULL HT (2/2x/6)  4 (2) 1 3/4*/11 1/4" ML PARALLAM PARAL	ENDS REMARKS  M6.1 FULL HT DROPPED  4* X B 1/4*  PALLAM DROPPED  M6.2 FULL HT DROPPED  M6.3 FULL HT DROPPED  M6.4 DROPPED  M6.4 DROPPED  M6.5 FULL HT DROPPED  M6.6 DROPPED  M6.7 FULL HT DROPPED, W SIMPSON FRAMING CLIP & DBL. SILL E  DROPPED - BETWEEN WDO. UNITS, W SIMPSON FRAMING  CLIP MARKS LSSG 1 LSSG 9 EA END OF BOX BEAM - T 1 B  M6.7 FULL HT CLIP MARKS LSSG 1 LSSG 9 EA END OF BOX BEAM - T 1 B  M6.8 FULSH - BUSD BLOCKING UNDER WOOD POST BOLTED  M6.9 PARALLAM  M6.1 FULSH - BEE PLAN FOR HT.  M6.1 DROPPED - SEE PLAN FOR HT.  M6.1 DROPPED - SEE PLAN FOR HT.  M6.2 DROPPED  M6.4 FULSH - SEE PLAN FOR HT.  M6.4 DROPPED - SEE PLAN FOR HT.  M6.5 DROPPED - SEE PLAN FOR HT.  M6.6 DROPPED - SEE PLAN FOR HT.  M6.6 DROPPED - SEE PLAN FOR HT.  M6.7 X B I/4*  M6.7 PLUSH - SEE PLAN FOR HT.  M6.8 PLUSH - SEE PLAN FOR HT.  M6.9 DROPPED - SEE PLAN FOR HT.  M6.9 DROPPED - SEE PLAN FOR HT.  M6.1 DROPPED - SEE PLAN FOR HT.  M6.2 DROPPED - SEE PLAN FOR HT.  M6.3 FULL HT CONNECT TO CS W I/2* SILL E, X WD. BLOCKING SOLIED TO WITH SOLIES CONNECT TO CG FROTT. SIAL CONNECT TO CG WITH SALE CONNECT TO CG WI	D. WIDTH HT. THK. DESCRIPTION MAT'L. FINISH MAT'L.  2'-6" 8'-0" 13/4" FLUSH S.C. U.D. PAINT U.D.  2'-4" GLASS PANEL S.C. U.D./GL. PAINT U.D.  3' (2) 2'-4" S.C. U.D. FAINT U.D.  4 2'-6" S.C. U.D. PAINT U.D.  5 (2)2'-8" S.C. U.D. PAINT U.D.  5 (2)2'-6" S.C. U.D. S.C. U.D.  6 '-8" 13/8" STEEL  6 (2)2'-0" 8'-0" 13/4" S.C. U.D.	MANUF. REMARKS  PELLA  ALICA IIV ADJACENT IDOG.  LOCK KEYED TO CUTSIDE  OF POOL.  ALICA IIV ADJACENT IDOG. / DOOR BELOUI  ALICA IIV ADJACENT IDOG.  ALICA IIV ADJACENT IDOG.
GENERAL NOTES:  1. ALL LINTEL HEIGHTS NOTED ON PLAN ARE REFERENCED FROM 2: ALL STEEL BEAMS TO BE PRE-PUNCHED FOR 1/2" BOLTS THE	DM T/ PLYWOOD - TYP. U.O.N.  13  14  15  16  16  17  18  18  19  19  19  19  10  11  11  12  13  14  15  16  16  17  18  19  19  19  19  19  19  19  19  19	2'-4"  FLUSH  STEEL  3'-6"  ENTRY DOOR  GLASS  2'-6"  FRENCH  SC. UD/GL.  2'-6"  FRENCH  STEEL  3'-0"  8'-0"  13/4"  FLUSH  STEEL  3'-0"  8'-0"  13/4"  FLUSH  STEEL  3'-0"  8'-0"  13/4"  FRENCH/INACTIVE  6C. UD/GL.  3'-0"  8'-0"  13/4"  FLUSH  STEEL  12'-6"  8'-0"  13/4"  FLUSH  STEEL  12'-6"  8'-0"  13/4"  FLUSH  SC. UD.  12'2'-6"  8'-0"  13/8"  FLUSH  SC. UD.  13/8"  FLUSH  SC. UD.  13/9"  FLUSH  SC. UD.  13/4"  FLUSH  SC. UD.  13/4"  FLUSH  SC. UD.  13/4"  FLUSH  SC. UD.  PAINT  UD.	PRIVACY  PASSAGE  PRIVACY  PASSAGE  INSULATED, W. WEATHERSTRIPPING  ENTRY DEADBOLT  PRIVACY  WOUBLE-KEYED DEADBOLT  WEATHER STRIPPING  PRIVACY  WOUBLE-KEYED DEADBOLT  WEATHER STRIPPING  PRIVACY  DEADBOLT  WWEATHERSTRIPPING  CLOSER  ALIGN W. TRANSOM 3196 FIXED  WWEATHERSTRIPPING  CLOSER  ALIGN W. TRANSOM 3196 FIXED  WWEATHERSTRIPPING  CLOSER  PASSAGE  PASSAGE  PASSAGE  PASSAGE  PASSAGE



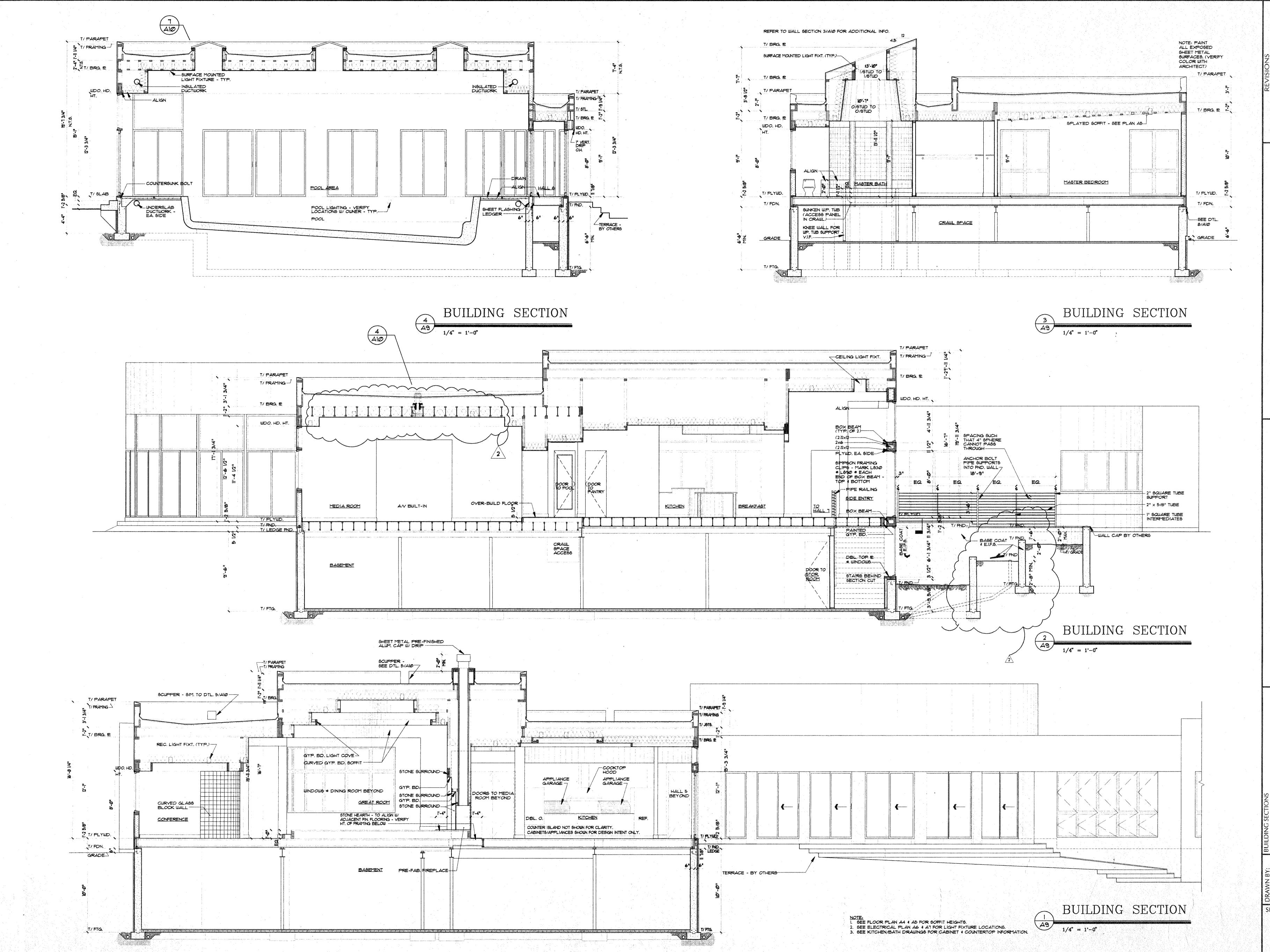


JOB NUMBER 95076.00



NARCU, ENVIEW ROAD ROOK, ILLINOIS

JOB NUMBER



 NO.
 DATE
 DESCRIPTION

 12-23-96
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 5-23-97
 ISOUED FOR PERMIT

 2
 1-24-97
 GENERAL REVISIONS

HITECTS · IN C.
Road, Lake Forest, Illinois 60045 (847)295-5777

TOM RESIDENCE:

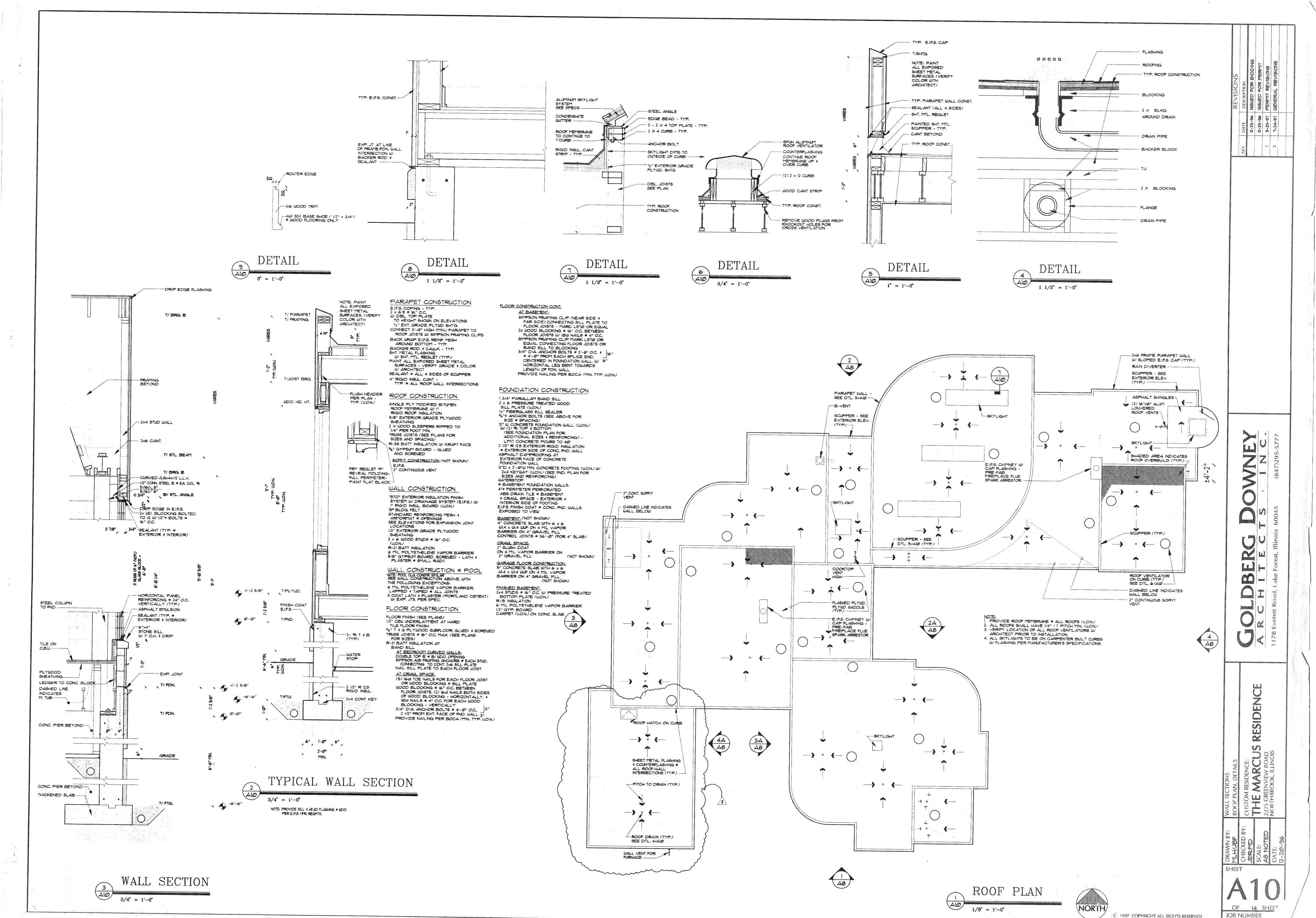
-E MARCUS RESIDENCE

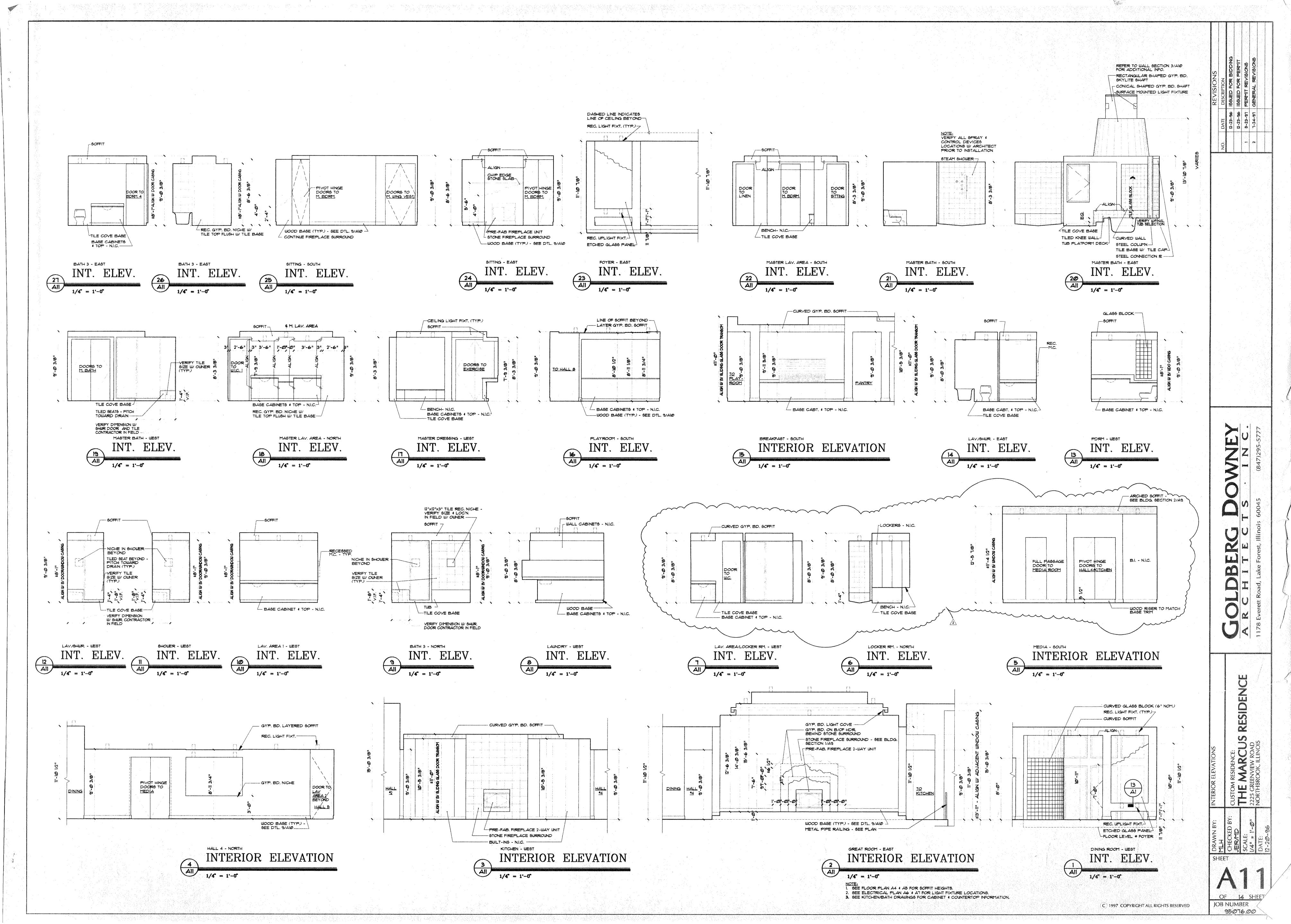
5 GREENVIEW ROAD

STHBROOK, ILLINOIS

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CONCRETE MASONRY UNITS SHALL BE TYPE I LOAD BEARING C.M.U. CONFORMING TO ASTM C90. PROVIDE TRUSS TYPE WALL REINFORCING DUR-O-WAL OR APPROVED EQUAL. DIMENSIONAL STONE SHALL BE LIMESTONE CONFORMING WITH ASTM C568. FINAL LIMESTONE SELECTION SHALL BY OWNER AND ARCHITECT. LIMESTONE SHALL BE EXTERIOR OOLITIC, SMOOTH FINISH OR EQUAL. ANCHORS SHALL BE HOT DIPPED GALVANIZED, SIZE AND TYPE TO SUPPORT LIMESTONE. MORTAR COLOR SHALL MATCH LIMESTONE. PROVIDE SHOP DRAWINGS FOR ALL CUT STONE DETAILING TO ARCHITECT FOR APPROVAL PRIOR TO A. GLASS BLOCK SHALL BE MANUFACTURED BY PITTSBURGH CORNING (OR APPROVED EQUAL).
GLASS BLOCK TO BE HOLLOW WITH ARGUS PATTERN SIZE 3 7/8" THICK X 6" HIGH AND 6" WIDE
(OR APPROVED EQUAL) WITH SMOOTH INNER AND OUTER FACES. EDGE COATING COLOR TO BE WHITE. (VERIFY PATTERN WITH OWNER).

B. PROVIDE "LX" FIBEROUS GLASS INSERTS AT BLOCK FOR GARAGE MORTAR FOR GLASS UNIT MASONRY TO COMPLY WITH ASTM C 270, PROPORTION SPECIFICATION, FOR TYPE S PORTLAND CEMENT-LIME MORTAR. COLOR TO BE WITH JOINT WIDTHS OF 1/4" UNLESS OTHERWISE NOTED. FOR JOINTS 1/4" OR LESS IN THICKNESS PROVIDE AGGREGATE GRADED FOR THIN JOINTS. DOVETAIL WIRE TIES: TRAPEZOIDAL-SHAPED TIES OF SIZE INDICATED, FABRICATED FROM 3/16" STEEL WIRE COMPLYING WITH ASTM A 82 FOR UNCOATED WIRE AND WITH ASTM A 641 FOR CLASS 3 ZINC COATING, ATTACHED TO 0.1046" THICK GALVANIZED STRAP SHAPED TO

D. VERTICAL SPACING OF PANEL REINFORCING AS INDICATED BELOW: PANEL (JOINT) REINFORCEMENT: LADDER-TYPE WELDED WIRE UNITS ZINC-COATED (GALVANIZED) STEEL WIRE. NOT MORE THAN 24" ON CENTER FOR UNITS OVER 3-1/8" PLACE PANEL REINFORCING IN JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS WITHIN GLASS UNIT MASONRY PANELS. LAP PANEL REINFORCING NOT LESS THAN 6" WHERE MORE THAN ONE LENGTH IS NECESSARY.

CLEAN GLASS UNIT MASONRY AFTER MORTAR HAS ATTAINED FINAL SET BUT BEFORE IT HAS DRIED ON BLOCK SURFACES BY USE OF SCRUB BRUSH WITH STIFF FIBER BRISTLES AND DAMP CLOTH. DO NOT USE ABRASIVE CLEANERS, STEEL WOOL OR WIRE BRUSH. DIVISION 5 - METALS

ALL STRUCTURAL STEEL TO BE A-36 U.O.N. ALL STRUCTURAL STEEL BOLTS TO BE A MINIMUM OF 3/4" A-325. USE METAL OR OTHER APPROVED SHIMS UNDER STEEL BEAMS AND COLUMNS. WOOD SHIMS ARE ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PAINT.

INTERIOR AND EXTERIOR PIPE RAILS TO BE PER 2/A9. PROVIDE 3/4" BASE PLATES WITH 3/4" DIAMETER ANCHOR BOLTS AT ALL COLUMNS (U.O.N.). PROVIDE 1/2" CAP PLATES WITH (4) 3/4" DIAMETER BOLTS AT ALL COLUMNS 8. ALL BEAMS TO BE BOLTED TO COLUMNS AT 2 LOCATIONS (MINIMUM). ALL STEEL TO HAVE HOLES FOR 1/2" DIAMETER BOLTS AT 16" O.C. STAGGERED AT TOP FLANGE TO

ACCEPT WOOD BLOCKING. 10. ALL BEAMS BEARING ON FOUNDATION WALLS SHALL HAVE 5/8" X WIDTH OF BEAM X 4" END BEARING - BEARING PLATES WITH (2) 5/8" DIAMETER ANCHOR BOLTS. 11. ASTM A500 GRADE B; FOR ALL STRUCTURAL TUBING (TS), FY-46 KSI. 2. ASTM A501 OR ASTM A53, TYPES E OR S, GRADE B; FOR ALL PIPE COLUMNS, FY-36 KSI.

13. ASTM A325; 3/4" DIAMETER BOLTS IN BEARING FOR ALL CONNECTIONS.
ASTM E70; ALL WELDING SHALL BE BY WELDERS QUALIFIED WITHIN THE PAST 12 MONTHS TO WELD IN THE REQUIRED POSITIONS, IN ACCORDANCE WITH AWS STANDARDS AND

4. ALL STEEL SHALL BE FABRICATED, DETAILED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS LATEST EDITION, AND WITH THE AISC CODE OF STANDARD PRACTICE. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEANS NECESSARY TO INSURE THE STABILITY OF THE STEEL FRAME DURING CONSTRUCTION, UNTIL ALL FINAL CONNECTIONS HAVE BEEN MADE, AND THE FRAME BECOMES SELF SUPPORTING AND STABLE. DIVISION 6 - WOODS AND PLASTICS ALL WOOD FRAMING SHALL CONFORM TO THE "TIMBER CONSTRUCTION STANDARDS — AITC 100" OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" AND "MANUAL FOR HOUSE FRAMING OF THE NATIONAL FOREST PRODUCTS

. ALL LUMBER SHALL CONFORM TO U.S. PRODUCT STANDARD PS-20 AND SHALL BE GRADE MARKED. ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1 AND SHALL BE GRADE MARKED. PLYWOOD CONSTRUCTION SHALL CONFORM TO THE "PLYWOOD CONSTRUCTION GUIDE" OF THE STRESS GRADE LUMBER SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" WITH AN ALLOWABLE Fb=1100 PSI EXCEPT WHERE NOTED OTHERWISE ON PLANS

AND FOR MICRO-LAMS.

ALL HEADER TO HEADER CONNECTIONS TO HAVE 1,000 LB. CAPACITY (MIN.-U.O.N.).

6. Fb MAY BE REDUCED WITH ENGINEERED ROOF TRUSSES. PROVIDE DOUBLE JOISTS UNDER ALL BEARING PARTITIONS PROVIDE DOUBLE JOISTS AND HEADERS AT STAIR OPENINGS.

REFER TO TRUSS JOIST STANDARDS FOR ALLOWABLE SIZE AND LOCATION OF HOLES AND SPECIFICATION OF BEARING HANGERS AND OTHER CONNECTIONS. 10. NOTCHING IS PERMITTED TO 1/6 JOIST DEPTH EXCEPT NO NOTCHING IN MIDDLE 1/3 OF SPAN, AT 1. HOLES MAY BE BORED THROUGH JOISTS WITH A MAXIMUM DIAMETER OF 2" WITH EDGES NOT

NEARER THAN 2" TO TOP OR BOTTOM OF JOIST, AT CONVENTIONAL FRAMING. 2. PROVIDE 1 X 3 CROSS BRACING WITH MAXIMUM SPACING OF 8'- 0" O.C., AT CONVENTIONAL

3. WOOD SILL PLATES ON TOP OF FOUNDATION WALLS SHALL BE PRESSURE TREATED AND LEVELED WITH 1/2" FIBER GLASS SILL SEALER WITH SHIMS AT 16" O.C. MAXIMUM AND ANCHORED WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" O.C.

4. ALL BOTTOM PLATES OF BASEMENT PARTITIONS TO BE PRESSURE TREATED. 15. PROVIDE 2x PLATE ON TOP OF ALL STEEL BEAMS.

16. ALL EXTERIOR AND BEARING PARTITIONS SHALL HAVE STUDS AT 16" O.C. WITH DOUBLE 2 X TOP PLATE, MINIMUM LAP 48" AND A 2 X SOLE PLATE. 17. ALL INTERIOR NON-BEARING PARTITIONS SHALL HAVE STUDS AT 16" O.C.

18. ALL CORNER POSTS SHALL BE NOT LESS THAN 3-2 X STUDS. ALL BEARING WALL OPENINGS SHALL BE FRAMED WITH 2-2 X 12 HEADER WITH 1/2" PLYWOOD SPACERS EXCEPT WHERE OTHERWISE NOTED.

20. BALLOON FRAME ALL WALLS AT VOLUME CEILINGS. 21. ALL SUBFLOORS TO BE 3/4" T&G PLYWOOD DECKING GLUED AND SCREWED AS PER SPECIFICATIONS OF THE AMERICAN PLYWOOD ASSOCIATION. 22. WALL SHEATHING SHALL BE 1/2" EXTERIOR GRADE PLYWOOD. NAIL AT EDGES WITH 10d NAILS AT 6"

O.C. AND 12" O.C. AT INTERMEDIATE STUDS. 23. IT SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO VERIFY ALL DIMENSIONS AND LOADINGS AND TO SUBMIT TWO (2) STAMPED SETS OF DRAWINGS TO THE LOCAL BUILDING DEPARTMENT FOR APPROVAL. 24. NO REMOVAL OR CUTTING OF WEBS, TOP CHORDS AND/OR BOTTOM CHORDS SHALL BE ALLOWED.

25. TRUSSES SHALL BE FABRICATED AND INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS. 26. TRUSS MANUFACTURER SHALL DESIGN TRUSS SIZE AND PLACEMENT TO ACCOMMODATE ROOF OPENINGS EXCEEDING IN WIDTH SPACING OF TRUSSES.

27. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS. 28. 1ST JOIST PARALLEL TO FOUNDATION WALL OR BEARING WALL TO BE DOUBLED AT BOTH FLOORS 29. BLOCKING SHALL BE INSTALLED WHERE NEEDED, PARTICULARLY KITCHENS, BATHS, CLOSETS AND STAIRS. 30. PROVIDE FIRESTOPPING AT ALL FURRING, PARTITIONS AND OUTSIDE STUD WALLS AT THE LEVEL OF EACH FLOOR OR CEILING AND AT THE JUNCTURE OF ROOF RAFTERS AND WALLS. PROVIDE ADDITIONAL FIRESTOPPING AS REQUIRED PER CODE. 31. PROVIDE DRYWALL OR DRAFTSTOP MATERIAL FLOOR TO CEILING BEHIND ALL TUBS ON OUTSIDE

SINGLE-SOURCE RESPONSIBILITY: OBTAIN MATERIALS FOR SYSTEM FROM MANUFACTURERS APPROVED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH OTHER SYSTEM COMPONENTS.

STORE MATERIALS INSIDE AND UNDER COVER; KEEP THEM DRY AND PROTECTED FROM THE WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AGING, CORROSION, DAMAGING TEMPERATURES, DAMAGE FROM CONSTRUCTION TRAFFIC; AND OTHER CAUSES. ENVIRONMENTAL

CONDITIONES, INSTALL SYSTEM ONLY WHEN AMBIENT OUTDOOR TEMPERATURES ARE AT LEAST 40?F AND SHALL REMAIN SO FOR AT LEAST 24 HOURS.

MANUFACTURERS/PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE CLASS PB SYSTEM BY ONE OF THE FOLLOWING:

PROVIDE MECHANICAL FASTENERS, BOARD INSULATION, REINFORCING FABRICS, BASE AND FINISH COAT MATERIALS, SEALANTS, AND ACCESSORIES THAT ARE COMPATIBLE WITH ONE ANOTHER AND APPROVED FOR USE BY SYSTEM MANUFACTURER.

POLYSTYRENE BOARD INSULATION: STO DRAINAGE EPS INSULATION BOARD ASTM C 578 FOR TYPE I

STRANDS WITH TENSILE STRENGTH OF NOT LESS THAN 145 LB AND 150 LB IN WARP AND FILL DIRECTIONS PER ASTM D 1682; COMPLYING WITH ASTM D 578 AND THE FOLLOWING REQUIREMENTS

PRODUCT: STO ARMOR MAT WITH STO CORNER MAT AT CORNERS AT WALLS AND OPENINGS.

STO BTS-B, POLYMER MODIFIED CEMENTITIOUS BASE COAT WITH FIBER REINFORCEMENT AND

DOW 790 OR APPROVED EQUAL AT EXPANSION JOINTS AND DOW 791 OR 795 AT

SEALANT PRODUCTS: PROVIDE MANUFACTURER'S STANDARD CHEMICALLY CURING, ELASTOMERIC SEALANT THAT IS COMPATIBLE WITH JOINT FILLERS, JOINT SUBSTRATES, AND OTHER RELATED

COMPLY WITH SYSTEM MANUFACTURER'S CURRENT PUBLISHED INSTRUCTIONS FOR STORAGE PROTECTION, PREPARATION, MIXING AND INSTALLATION OF SYSTEM AS APPLICABLE TO EACH TYPE

JOINT SEALANT SPECIFICATIONS FOR EXTERIOR INSULATION AND FINISH SYSTEMS. PROVIDE FINISH COAT AT ALL CONCRETE FOUNDATION WALLS EXPOSED TO VIEW.

15. INSTALL ROOF VENTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR

19. INSTALL ROOFING AND FLASHING IN ACCORDANCE WITH NATIONAL ROOFING CONTRACTORS

16. ROOF VENTS SHALL BE GREENHECK GRS-20 OR APPROVED EQUAL (PAINT BLACK).

21. PROVIDE BILCO TYPE "S" ALUMINUM ROOF SCUTTLE (OR APPROVED EQUAL).

MANUFACTURER'S STANDARD LIFETIME WARRANTY. (ALTERNATE).

NTERIOR FRAMES - UNFINISHED PINE (PAINT)

BUTTS, THRESHOLD AND WEATHERSTRIPPING

COMPLY WITH ASTM B221 AND ASTM B209.

GLASS - 1 5/16" INSULATING, TEMPERED AND LOW "E"

EXTERIOR FRAMES - ALUMINUM, STANDARD COLOR ANODIZED

16' X 4' ("GABLE TYPE") 2'-6" X 2'-6"

SERVICE DOOR - FLUSH INSULATED METAL (PAINT).
TYPICAL INTERIOR DOORS - FLUSH SOLID CORE (PAINT GRADE)
INTERIOR FRENCH DOORS - SOLID CORE PER ELEVATION (PAINT)

INTERIOR DOORS: FIRST FLOOR - CYLINDER LATCH SETS (N.I.C.)

EXTERIOR CODED KEYPAD. ALL GARAGE DOOR OPENER WIRING SHOULD BE 4-WIRE CONCEALED (PREWIRED). PROVIDE ELECTRONIC EYE FOR SAFETY REVERSE.

INTERIOR DOORS: CYLINDER LATCH SETS (N.I.C.) BASEMENT

PROVIDE DOOR BUMPERS AT ALL SWINGING DOORS.

COMPLETE INSTALLATION

WITH ENDURACOTE HARDWARE.

NOTE: ALL EXTERIOR DOORS SHOULD BE KEYED ALIKE.

PROVIDE FLUSH PULLS AT POCKET DOORS

PROVIDE OPENER WITH QUIET OPERATION OPTION.

SKYLIGHT SIZES

POOL AREA

BATH 3

4. DOOR HARDWARE SCHEDULE.

14. THE INTERSECTION OF PLUMBING AND CHASE WALLS WITH AN ATTIC SPACE SHALL BE MADE

18. PROVIDE MILL FINISH ALUMINUM VENTS WITH INSECT SCREEN AT WEST EXTERIOR WALL OF MASTER

ROOF SHINGLES TO 325# ASPHALT OF FIBERGLASS COMPOSITION WITH 25 YEAR GUARANTEE. VERIFY COLOR WITH OWNER AND ARCHITECT.

22. ROOFING MATERIAL TO BE "BRAI" (OR APPROVED EQUAL) SINGLE PLY MODIFIED BITUMEN MEMBRANE ON 1" PERLITE INSULATION, MOP APPLIED BASE SHEETS, TORCH APPLIED CAP SHEETS WITH COLORED GRANULAR SURFACE (10 YEAR GUARANTEE). VERIFY COLOR WITH OWNER AND

23. PROVIDE RUB-R-WALL FOUNDATION WATERPROOFING WITH 1/4" DOW PROTECTION BOARD AT ALL POURED CONCRETE AND CONCRETE MASONRY UNIT FOUNDATION WALLS. PROVIDE

WOOD WINDOWS AND GLASS DOORS TO BE PELLA, (PROVIDE ALTERNATE PRICING FOR MARVIN), IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.

A. GLASS - 5/8" INSULATING FOR WINDOWS (ALTERNATE FCR LOW "E")

3/4" TEMPERED INSULATING AT SLIDING DOORS (ALTERNATE FOR LOW "E")

B. EXTERIOR FRAMES - CLAD (CUSTOM COLOR)

SCREENS - AT ALL OPERABLE WINDOWS AND SLIDING DOORS, WHITE FRAMES.

VERIFY HARDWARE AND FRAME COLORS WITH OWNER.
PROVIDE CUSTOM CONTINUOUS WOOD CURVED SILLS AT UNITS IN CURVED WALLS (KYNAR

DOOR HARDWARE: ALL OTHER DOOR HARDWARE SHALL BE MANUFACTURER'S STANDARD

STANDARD CLEAR, 1" INSULATING SAFETY GLASS MATERIAL THAT COMPLIES WITH THE REQUIREMENTS OF ANSI 297.1 (ALTERNATE FOR LOW "E").
FINISH: KYNAR 500, PPG DURANAR STANDARD COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS. COMPONENTS: PROVIDE ALL NECESSARY FRAMING,

FASTENERS, FLASHING, GLAZING TAPES AND SEALANTS, AND ANY ACCESSORIES FOR A

COMPLY WITH MANUFACTURER'S INSTRUCTION AND RECOMMENDATIONS FOR INSTALLATION

FINISH OR EQUAL). PROVIDE CUSTOM ALUMINUM MULL COVERS AT UNITS IN CURVED

H. ALUMINUM ENTRANCES AND STOREFRONTS (ALTERNATE)
ALUMINUM ENTRANCES AND STOREFRONT SYSTEMS SHALL WITHSTAND A 20 PSF WIND LOAD.

ALUMINUM MEMBERS: ALLOY AND TEMPER AS RECOMMENDED BY MANUFACTURER;

GLASS: GLAZE ALUMINUM ENTRANCES AND STOREFRONTS WITH MANUFACTURER'S

SKYLIGHTS TO BE SUPER SKY OR APPROVED EQUAL IN ACCORDANCE WITH THE FOLLOWING

3. PROVIDE THE FOLLOWING DOORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS:

SERVICE DOOR FROM GARAGE TO HOUSE - FLUSH INSULATED METAL (PAINT)

FRONT DOOR - MORTISE INTERCONNECTED LOCKS AT EXTERIOR DOORS (N.I.C.)

PROVIDE 2 SPRING HINGES AND ONE STANDARD BUTT HINGE AT 'B' LABEL DOORS

GARAGE OVERHEAD DOORS - RAYNOR (OR APPROVED EQUAL) FLUSH DECADE SHOWCASE

REAR SERVICE DOORS - MORTISE INTERCONNECTED LOCKS AT EXTERIOR DOORS (N.I.C.)

ALL DOORS SHALL HAVE 1 1/2 PAIRS OF BUTT HINGES (U.O.N.) FINISH TO MATCH DOOR

PROVIDE 1/2 HP CHAIN DRIVE GARAGE DOOR OPENER FOR EACH DOOR WITH 4 REMOTES AND ONE (1)

- WHITE FINISH AT SLIDING DOORS WHITE AT CASEMENTS

PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF "EIMA

REINFORCING FABRIC: BALANCED, ALKALI-RESISTANT OPEN WEAVE GLASS FIBER FABRIC TREATED

COLORS AND TEXTURES OF PROTECTIVE COATING: AS SELECTED BY ARCHITECT FROM

FOR COMPATIBILITY WITH OTHER SYSTEM MATERIALS; MADE FROM CONTINUOUS MULTIEND

APPROVED BY SYSTEM MANUFACTURER FOR MATERIAL QUALITIES.

1. IMPACT RESISTANT REINFORCING FABRIC: 15.0 OZ. PER SQ. YD.

SPECIALTY MESH: 4.5 OZ PER SQUARE YARD. PRODUCT: STO DETAIL MESH AT DETAIL AREAS.

3. STANDARD MESH: 4.8 OZ. PER SQUARE YARD

PRIMER: STO SILCO PRIME, SILICONE ENHANCED PRIMER

STARTER TRACK: PLASTIC COMPONENTS PART NO. STDE

PORTLAND CEMENT AT WALLS.

WATER: CLEAN AND POTABLE

FINISH COAT MATERIALS: STO SILCO LIT 3.0

PERIMETER JOINTS.
SEALANT COLOR: TO MATCH COLOR OF E.I.F.S.

13. SCUPPERS SHALL BE PREFINISHED ALUMINUM 0.032".

17. SOFFIT VENTS SHALL BE PLASTIC COMPONENTS NO. 548-1

INSTALLATION ON A SINGLE PLY ROOF.

ASSOCIATION RECOMMENDATIONS.

FOR MINIMUM WEIGHT:

ALL WALLS, EXCEPT GARAGE, TO BE 5/8" GYPSUM BOARD (GLUED AND SCREWED TYPICAL, SCREW ONLY AT EXTERIOR WALLS WITH VISQUEEN VAPOR BARRIER). 2. ALL CEILINGS TO BE 5/8" GYPSUM BOARD (GLUED AND SCREWED).

6. COORDINATE INSTALLATION OF WINDOWS AND DOORS WITH OWNERS SECURITY CONSULTANT.

PROVIDE APPROVED SAFETY GLAZING AT HAZARDOUS LOCATIONS

DIVISION 9 - FINISHES

3. GARAGE WALLS AND CEILING SHALL BE 5/8" TYPE "X" GYPSUM BOARD. WHERE GAS FURNACE IS LOCATED IN A BASEMENT, PROVIDE 5/8" TYPE "X" GYPSUM BOARD ON WALLS AND CEILING 4'- 0" BEYOND HEATING DEVICE, TAPE COAT ONLY. (LEVEL 1 ACCORDING TO THE "RECOMMENDED SPECIFICATION ON LEVELS TO GYPSUM BOARD FINISH")

5. SMALL RADIUS CORNERS OF WALLS AND CEILINGS SHALL BE 3-COATS PLASTER SANDED AND POOL WALLS AND CEILING SHALL BE 3-COATS PLASTER SANDED AND PAINTED.

THIS SECTION INCLUDES EXTERIOR PORTLAND CEMENT PLASTERING WORK.
SUBMIT PRODUCT DATA FOR ALL SPECIFIED PRODUCTS WHEN DIRECTED BY ARCHITECT.
SUBMIT 12" X 12" SAMPLES OF AVAILABLE FINISHES FOR ARCHITECT'S SELECTION PRIOR TO PRIOR TO INSTALLATION OF PLASTER WORK, WHEN DIRECTED BY ARCHITECT, FABRICATE MOCK-UP PANELS IN FIELD TO DEMONSTRATE AESTHETIC EFFECTS OF APPLICATION AS WELL AS QUALITIES OF MATERIALS AND ERECTION. OBTAIN ARCHITECT'S ACCEPTANCE OF MOCK-UPS BEFORE START OF PLASTER WORK.
COMPLY WITH REQUIREMENTS OF SPECIFIED ASTM STANDARDS AS IF REPRODUCED IN THEIR ENTIRETY HEREIN.

EXPANDED METAL LATH MANUFACTURERS: GOLD BOND BUILDING PRODUCTS DIV., NATIONAL GYPSUM CO., UNITED STATES GYPSUM CO. OR ARCHITECT APPROVED EQUAL. ACCESSORIES MANUFACTURERS: SAME AS METAL LATH MANUFACTURERS OR FRY REGLET EXPANDED METAL LATH: FABRICATE EXPANDED METAL LATH FROM GALVANIZED STEEL SHEET TO PRODUCE DIAMOND MESH LATH, FLAT OR SELF-FURRING CONFIGURATION AS REQUIRED, 3.4 LBS. PER SQ. YD. WEIGHT, COMPLYING WITH ASTM C 847. LATH ATTACHMENT DEVICES: MATERIAL AND TYPE REQUIRED BY ASTM STANDARDS AND RECOMMENDED BY LATH MANUFACTURER. METAL CORNER REINFORCEMENT: EXPANDED LARGE-MESH DIAMOND MESH LATH FABRICATED FROM GALVANIZED STEEL OR WELDED WIRE MESH FABRICATED FROM 0.0475"

METAL CORNER BEADS: SMALL NOSE CORNER BEADS FABRICATED FROM GALVANIZED STEEL, WITH EXPANDED FLANGES OF LARGE—MESH DIAMOND LATH TO ALLOW FULL INCASEMENT BY PLASTER. CASING BEADS: SQUARE-EDGED STYLE, WITH EXPANDED FLANGES AND REMOVABLE PROTECTIVE TAPE, OF GALVANIZED STEEL CONTROL JOINTS: PREFABRICATED, OF GALVANIZED STEEL. PROVIDE ONE OF THE FOLLOWING TYPES AS INDICATED ON THE DRAWINGS:

 ONE-PIECE TYPE: FOLDED PAIR OF NONPERFORATED SCREENS IN M-SHAPED CONFIGURATION, WITH EXPANDED FLANGES.
 TWO-PIECE TYPE: PAIR OF CASING BEADS WITH BACK FLANGES FORMED TO PROVIDE TO PROVIDE TO PROVIDE TO PROVIDE TO PROVIDE TO PROVIDE. SLIP-JOINT ACTION, ADJUSTABLE FOR JOINT WIDTHS FROM 1/8 INCH TO 5/8 INCH. BASE COAT CEMENTS: PORTLAND CEMENT, ASTM C 150, TYPE I OR II. FINISH COAT CEMENT: PORTLAND CEMENT, ASTM C 150, TYPE I, WHITE LIME: SPECIAL HYDRATED LIME FOR FINISHING PURPOSES, ASTM C 206, TYPE S. SAND AGGREGATE FOR BASE AND FINISH COATS: ASTM C 897, MANUFACTURED OR NATURAL WHITE SAND FOR FINISH COATS.
WATER FOR MIXING AND FINISHING PLASTER: DRINKABLE AND CLEAN.
PORTLAND CEMENT PLASTER BASE COAT MIXES AND COMPOSITIONS: COMPLY WITH ASTM C

926. ADJUST MIX PROPORTIONS BELOW WITHIN LIMITS SPECIFIED TO ATTAIN WORKABILITY. THREE-COAT WORK OVER METAL LATH: ALLOW FOR LOCAL VARIATIONS IN SAND 1. SCRATCH COAT: 1 PART PORTLAND CEMENT, 3/4 TO 1-1/2 PARTS LIME, 2-1/2 TO 4 PARTS SAND. BROWN COAT: 1 PART PORTLAND CEMENT, 3/4 TO 1-1/2 PARTS LIME, 3 TO 5 PARTS SAND. PORTLAND CEMENT PLASTER FINISH COATS: COMPLY WITH ASTM C 926 AND

a) JOB MIXED FINISH COAT: 1 PART PORTLAND CEMENT, 1-1/2 PARTS LIME, FACTORY-PREPARED FINISH COAT: MANUFACTURER'S STANDARD PRODUCT REQUIRING ADDITION OF WATER ONLY; WHITE COLOR.

i) PRODUCT: ORIENTAL EXTERIOR FINISH STUCCO MANUFACTURED BY UNITED STATES GYPSUM CO.

MECHANICALLY MIX CEMENTITIOUS AND AGGREGATE MATERIALS FOR PLASTERS TO COMPLY WITH APPLICABLE ASTM APPLICATION STANDARDS. PART 3 - EXECUTION

INSTALL LATHING TO COMPLY WITH ASTM C 1063.
INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING AT TERMINATIONS IN THE WORK AND FOR SUPPORT OF FIXTURES, HEAVY TRIM AND SIMILAR WORK TO COMPLY WITH DETAILS INDICATED.

INSTALL PLASTER ACCESSORIES OF TYPE INDICATED AND IN COMPLIANCE WITH ASTM C 1063.

MITER OR COPE ACCESSORIES AT CORNERS; INSTALL WITH TIGHT JOINTS AND IN ALIGNMENT. PROVIDE THE FOLLOWING TYPES TO COMPLY WITH REQUIREMENTS INDICATED FOR

CORNER REINFORCEMENT: INSTALL AT EXTERNAL CORNERS UNLESS OTHERWISE CORNER BEAD: INSTALL AT EXTERNAL CORNERS WHERE INDICATED CASING BEADS: INSTALL AT TERMINATIONS OF PLASTER WORK UNLESS OTHERWISE CONTROL JOINTS: INSTALL CONTROL JOINTS A MAXIMUM OF 18 FEET IN EITHER DIRECTION BUT NOT EXCEEDING 144 SQ. FT. AREA. WHERE FACTORY PREPARED PROPRIETARY FINISH COATS ARE USED, DO NOT EXCEED 10 FEET IN EITHER DIRECTION AND 100 SQ. FT. AREA. REVIEW CONTROL JOINT LOCATIONS IN FIELD WITH

TOLERANCES: DO NOT DEVIATE MORE THAN 1/8 INCH IN 10'-0" FROM A TRUE PLANE IN FINISHED PLASTER SURFACES, AS MEASURED BY A 10'-0" STRAIGHTEDGE PLACED AT ANY LOCATION ON SURFACE. SEQUENCE PLASTER APPLICATION WITH THE INSTALLATION AND PROTECTION OF OTHER WORK SO THAT NEITHER WILL BE DAMAGED BY THE INSTALLATION OF THE OTHER. PLASTER FLUSH WITH BUILT-IN ITEMS OR ACCESSORIES THAT ACT AS A PLASTER GROUND, UNLESS OTHERWISE INDICATED.

APPLY PORTLAND CEMENT PLASTER MATERIALS, COMPOSITIONS, AND MIXES TO COMPLY WITH ASTM C 926, MANUFACTURER'S INSTRUCTIONS AND THE FOLLOWING: USE MINIMUM OF THREE-COAT WORK (SCRATCH, BROWN, FINISH) OVER METAL LATH. FINISH COAT: TEXTURE AS SELECTED BY ARCHITECT FROM SUBMITTED SAMPLES OF EITHER JOB MIXED FINISH COAT OR FACTORY PREPARED PROPRIETARY FINISH COAT. IF FACTORY PREPARED FINISH COAT IS USED, APPLY IN TWO COATS WHERE ONE COAT DOES NOT PROVIDE ADEQUATE COVERAGE AS DETERMINED BY THE ARCHITECT.

H. MOIST-CURE PORTLAND CEMENT PLASTER BASE AND FINISH COATS TO COMPLY WITH ASTM C 926, INCLUDING RECOMMENDATIONS FOR TIME BETWEEN COATS AND CURING IN "ANNEX A2 DESIGN CONSIDERATIONS."

CUT, PATCH, POINT UP, AND REPAIR PLASTER AS NECESSARY TO ACCOMMODATE OTHER WORK AND TO RESTORE CRACKS, DENTS, AND IMPERFECTIONS. REPAIR OR REPLACE WORK TO ELIMINATE BLISTERS, BUCKLES, EXCESSIVE CRAZING AND CHECK CRACKING, DRY OUTS, FFLORESCENCE, SWEAT OUTS, AND SIMILAR DEFECTS AND WHERE BOND TO THE SUBSTRATE REMOVE TEMPORARY PROTECTION AND ENCLOSURE OF OTHER WORK. REPAIR SURFACES THAT HAVE BEEN STAINED, MARRED, OR OTHERWISE DAMAGED DURING THE PLASTERING

PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE PLASTER WORK BEING WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION. PROVIDE CEMENTITIOUS BACKER UNIT (CBU) OR APPROVED EQUAL ON ALL SIDES OF SHOWER AND TUB ENCLOSURES TO RECEIVE TILE.

FLOOR FINISHES TO BE AS NOTED ON THE PLAN. ALL RESILIENT FLOORING TO BE INSTALLED OVER 1/4" HARDBOARD UNDERLAYMENT OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.

10. ALL CERAMIC TILE TO BE INSTALLED IN THINSET OVER CBU/MUDSET. INSTALL CERAMIC TILE IN ACCORDANCE WITH TCA F144-96 FOR FLOORS, TCA B412-96 AT BATHTUB, TCA B415-96 AT SHOWER

11. ALL MARBLE TO BE INSTALLED IN THINSET OVER CBU AND IN ACCORDANCE WITH THE FOLLOWING **SPECIFICATIONS**  MATERIALS: MARBLE SHALL HAVE AN ABRASIVE HARDNESS (HA) WITH A MINIMUM OF 10.0 WHEN TESTED

IN ACCORDANCE WITH ASTM C241. SEE MARBLE SPEC LIST FOR MARBLE TYPE AND SUPPLIER. FURNISH FOR ARCHITECTS APPROVAL, SAMPLE(S) AS REQUIRED, SHOWING GENERAL RANGE AND AMOUNT (IN PROPORTION TO THE SIZE OF THE SAMPLE) OF COLOR AND MARKINGS TO BE EXPECTED IN THE MARBLE TO BE USED. MIA GROUP CLASSIFICATION FOR SOUNDNESS SHALL BE SHOWN ON THE SAMPLE LABEL. THE APPROVED SAMPLE(S) WILL BE THE STANDARD FOR SELECTION AND FINISH OF THE MARBLE SUPPLIED UNDER THE CONTRACT.

DELIVERY AND STORAGE MARBLE SHALL BE CAREFULLY PACKED AND LOADED FOR SHIPMENT, AND ALL NECESSARY PRECAUTIONS TAKEN AGAINST DAMAGE IN TRANSIT. CLEAN, NONSTAINING MATERIALS SHALL BE USED FOR BLOCKING AND PACKING. EXTREME CARE SHALL BE EXERCISED TO PREVENT DAMAGE (PHYSICAL, CLIMATIC) AND STAINING DURING THE STORAGE PERIOD. THE

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE MARBLE AGAINST DAMAGE BY OTHERS DURING STORAGE. FOLLOWING INSTALLATION, THE MARBLE SHALL BE CAREFULLY CLEANED TO REMOVE ANY DIRT OR MORTAR AND ANY STAINS OR DEFACEMENTS. NO ACIDS, HARSH ABRASIVES OR WIRE

DURING INSTALLATION AND AFTER CLEANING BY THE MARBLE SUBCONTRACTOR, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL MARBLE WORK

NONSTAINING ADHESIVE - SHALL MEET THE REQUIREMENTS OF ANSI (USAS) A136.1. MARBLE TILES SHALL BE SET IN A FULL BED OF ADHESIVE, ACCURATELY IN PLACE WITH JOINTS UNIFORM AND OF THE SPECIFIED WIDTH. JOINTS SHALL BE GROUTED WITH CEMENT

EXCEPT IN THE CASE OF UNFILLED TRAVERTINE WHERE TIGHT JOINTS SHALL BE USED. 12. ALL DRYWALL SURFACES AND PAINTED WOODWORK TO RECEIVE ONE (1) PRIME AND TWO (2) FINISH LATEX PAINT COATS (LIGHT COLORS ONLY). ALL INTERIOR WOOD TRIM TO BE BACK-PRIMED. DOORS TO BE PAINTED (SEALED), ALL SIX (6) SIDES. VERIFY FINISH WITH OWNER AND ARCHITECT. 13. PAINT ROOF VENTS FLAT BLACK

14. ALL RECESSED MIRRORED MEDICINE CABINETS TO BE FLUSH WITH ADJACENT MIRRORS AND HAVE METAL EDGE PULL/TOUCH LATCH WITH MAGNETIC CATCH. ALL CABINETRY SHALL BE BUILT TO AWI CUSTOM GRADE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATING CABINETRY.

ALL CLOSET SHELVING TO BE N.I.C. 3. ALL RECESSED MEDICINE CABINETS TO BE 14 X 36 PLASTIC LAMINATE WITH ADJUSTABLE GLASS 4. PROVIDE THE FOLLOWING PRE-FABRICATED FIREPLACES:

PROVIDE MANUFACTURERS NON-COMBUSTIBLE HEARTH EXTENSION UNDER FLUSH HEARTHS. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND IN COMPLIANCE WITH ALL APPLICABLE 5. PROVIDE CERAMIC FIREPLACE LOGS AT ALL FIREPLACES.

DIVISION 11 - EQUIPMENT STEAM SHOWER SHALL BE N.I.C. 2. RECESSED IRONING BOARD SHALL BE N.I.C. DIVISION 12 - FURNISHINGS

SUPERIOR ST-3840A AT GREAT ROOM.

SUPERIOR RD-3300A AT MASTER SITTING ROOM.

DIVISION 13 - SPECIAL CONSTRUCTION 1. THIS SECTION INCLUDES THE FOLLOWING: CONTROLS, HEATERS, FILTERS, COVERS, LIGHTS, HANDRAILS AND DECK DRAINS.

B. ALL ASSOCIATED EQUIPMENT AND ACCESSORIES INCLUDING BUT NOT LIMITED TO: PUMPS,

SUBMIT SHOP DRAWINGS FOR POOL AND SPA TO ARCHITECT FOR REVIEW AND TO VILLAGE OF NORTHBROOK FOR PERMIT. SIZE AND DIMENSIONS OF POOL AND SPA SHOWN ON ARCHITECTURAL DRAWINGS ARE SCHEMATIC IN NATURE AND FOR BIDDING PURPOSES ONLY.

SUBMIT PRODUCT DATA FOR ALL POOL/SPA EQUIPMENT AND ACCESSORIES. C. POOL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN AND DETAILING OF POOL AND REINFORCED CONCRETE POOL AND ASSOCIATED WORK

REINFORCED CONCRETE. FOR THE PURPOSE OF THIS TEXT, THE SPECIFICATIONS FOR SPA SHALL BE THE SAME AS THOSE FOR POOL, AND THE WORK "POOL" SHALL PERTAIN TO BOTH TYPES OF VESSELS. THE PROPORTIONS OF THE VARIOUS COMPONENTS OF EACH CUBIC YARD

1250 LBS CLEAN #2 TORPEDO SAND 1800 LBS 3/8" X 5/8" WASHED GRAVEL 658 LBS PORTLAND CEMENT 8 OUNCES "DAREX" OR EQUAL AIR ENTRAINMENT COMPOUND 20 GALLONS POTABLE WATER HE COMPRESSIVE STRENGTH OF THE ABOVE "MIX" SHALL ACHIEVE A MINIMUM OF 5000 LBS PER SQUARE INCH IN 28 DAYS.

THE FLOOR OF THE POOL SHALL BE A MINIMUM OF 6" THICK, AND SHALL BE PLACED OVER A UNIFORM 3" THICK BED OF 3/4" NOMINAL WASHED GRAVEL. THE WALLS OF THE POOL SHALL BE A UNIFORM 10" THICKNESS FROM THE TOP OF THE POOL WALL DOWN 41" TO THE SAFETY LEDGE. THE SAFETY LEDGE SHALL BE 6" WIDE, AND THE DEEP PORTION OF THE EDGE OF THE LEDGE AS SHOWN ON THE ARCHITECTURAL PLANS. THE SAFETY LEDGE AREA ACTS AS A FOOTING FOR THE POOL WALLS AND SHALL BE A MINIMUM OF 8" IN VERTICAL THICKNESS THERE SHALL BE EIGHT (8) #4 REINFORCING RODS HORIZONTALLY IN THE UPPER POOL WALL COMPLETELY AROUND THE PERIMETER OF THE POOL STRUCTURE, AS PER THE RCHITECTURAL DRAWINGS. VERTICAL REINFORCING RODS IN THE POOL WALLS SHALL OCCUR AT 16" ON CENTER. ALL REINFORCING STEEL SHALL OVERLAP AT LEAST 20 DIAMETERS WHEN JOINING SUCCESSIVE LENGTHS OF REINFORCING. THE FLOOR AREA OF THE POOL SHALL CONTAIN 6" X 6" #10/10 STEEL WIRE MESH THROUGHOUT, AND SHALL BE POURED MONOLITHICALLY WITH THE UPPER POOL WALL WITH NO JOINT. DURING THE PLACEMENT OF THE CONCRETE FLOOR, EXTREME CARE SHALL BE USED TO ASSURE THAT THE REINFORCING MESH IS CONTINUALLY PULLED UP INTO THE CENTER OF THE FLOOR

THE POOL SKIMMERS SHALL BE CAST MONOLITHICALLY WITHIN THE CONCRETE STRUCTURE SO THAT THEY ARE SURROUNDED BY A MINIMUM OF 8" OF CONCRETE. ALL STEEL REINFORCING SHALL BE COMMONLY GROUNDED WITH LIGHT NICHES, DECK BOXES, LADDER AND RAILORS, AND PUMP MOTORS, USING #8 BARE COPPER GROUNDING WIRE, ALL N ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES

ALL PLUMBING LINES SHALL BE SCHEDULE 40 PRESSURE OR 100# PRESSURE POLYETHYLENE PIPE NSF APPROVED FOR POTABLE WATER. ALL INSERT FITTINGS USED FOR "POLYPIPE" SHALL BE GALVANIZED STEEL OR BRASS. NO PLASTIC INSERT FITTINGS SHALL BE ALLOWED. ALL PLUMBING LINES BURIED IN THE CONCRETE SHALL BE PRESSURE TESTED PRIOR TO COMMENCEMENT OF CONCRETE PLACEMENT

ALL CONDUIT RUNNING FROM SUBMERSIBLE WET LIGHT NICHES TO DECK BOXES SHALL BE 3/4" TYPE K SOFT COPPER. NO STEEL CONDUIT SHALL BE USED FOR THIS PURPOSE. ALL DECK BOXES SHALL BE U.L. APPROVED FOR SWIMMING POOL SERVICE. ALL SWIMMING POOL AND SPA LIGHTING SHALL BE OF THE LOW VOLTAGE TYPE, USING U.L. APPROVED COMPONENTS. BEFORE THE PLACEMENT OF CONCRETE BEGINS, THE FOOTING, STRUCTURAL, PLUMBING, AND ELECTRICAL GROUNDING INSPECTIONS SHALL HAVE BEEN ACCOMPLISHED BY THE

THE POOL "MAIN DRAIN" SHALL BE BEDDED IN A MINIMUM OF 8" OF CONCRETE AND SHALL BE ABOVE A "SUMP" CONTAINING AT LEAST ONE CUBIC YARD OF WASHED GRAVEL. A 2" HYDROSTATIC RELIEF LINE WILL RUN VERTICALLY UP FROM THE GRAVEL BED BELOW INTO THE BOTTOM OF THE MAIN DRAIN HOUSING AND WILL BE TOPPED BY A 2" HYDROSTATIC AT THE TOP OF THE POOL WALL AND DIRECTLY BENEATH THE COPING THERE SHALL BE A 6" HIGH BORDER OF CERAMIC TILE. THIS TILE LINE SHALL BE INCISED INTO THE POOL WALL IN A PREFORMED NICHE AND SHALL BE "MUD SET" IN PORTLAND CEMENT MORTAR. THE TILE USED ON THE EXTERIOR POOL SHALL BE GUARANTEED "FROSTPROOF". THE INSTALLATION

SHALL BE IN ACCORDANCE WITH PROCEDURES RECOMMENDED BY THE AMERICAN TILE THE INTERIOR OF THE POOL SHALL BE FINISHED WITH A FOUR COAT PROCESS. WHEN THE POOL IS READY FOR FINISHING, IT SHALL FIRST BE ACID WASHED WITH STRAIGHT 18 DEGREI BAUME MURIATIC ACID TO REMOVE ANY DIRT OR RESIDUE OF THE CONSTRUCTION PROJECT.

THE ACID WILL THEN BE NEUTRALIZED. AFTER THOROUGH RINSING THE POTABLE WATER, THE POOL SHALL BE COATED WITH (2) COATS OF "THOROSEAL" SHALL INCLUDE "ACRYL 60" AND POTABLE WATER, ALL ACCORDING TO THE MANUFACTURER'S DIRECTIONS. AFTER EACH SUCCESSIVE COAT OF "THOROSEAL" HAS DRIED, THE ENTIRE POOL SHALL BE HAND RUBBET WITH RUBBING STONES TO ASSURE UNIFORM SMOOTHNESS THROUGHOUT. AFTER THE SECON COAT OF "THOROSEAL" HAS BEEN RUBBED AND THE RUBBING DUST HAS BEEN VACUUMED OUT, THE POOL SHALL BE COATED WITH TWO COATS OF TNEMEC SERIES 66 HIGH BUILD EPOXOLINE ENAMEL, AS PRODUCED BY THE TNEMEC CORPORATION, KANSAS CITY, MO., OR

THE SWIMMING POOL AND SPA DESCRIBED HEREIN SHALL BE CONSTRUCTED OF GUNITE CONCRETE WITH A PLASTERED SURFACE. FOR THE PURPOSE OF THIS TEXT, THE SPECIFICATIONS FOR SPA SHALL BE THE SAME AS THOSE FOR POOL, AND THE WORK "POOL" SHALL PERTAIN TO BOTH TYPES OF VESSELS. THE PROPORTIONS OF THE VARIOUS COMPONENTS OF EACH CUBIC YARD OF CONCRETE SHALL BE AS FOLLOWS:

2600 LBS CLEAN #2 TORPEDO SAND 846 LBS PORTLAND CEMENT 6 OUNCES "DAREX" OR EQUAL AIR ENTRAINMENT COMPOUND 150 LBS FLY ASH 33 GALLONS POTABLE WATER

THE COMPRESSIVE STRENGTH OF THE ABOVE "MIX" SHALL ACHIEVE A MINIMUM OF 6800 LBS PER SQUARE INCH IN 28 DAYS. THE FLOOR OF THE GUNITE POOL SHALL BE A MINIMUM OF 6" THICK, AND SHALL BE PLACED OVER A UNIFORM 3" THICK BED OF 3/4" NOMINAL WASHED GRAVEL. THE WALLS OF THE POOL SHALL BE A MINIMUM 8" THICKNESS (4" AT CONCRETE PIERS) FROM THE FLOOR UPWARDS TO WITHIN 18" OF THE TOP OF THE POOL WALL. THE TOP OF THE POOL WALLS SHALL CONSIST OF AN 18" HIGH BOND BEAM, 10" IN THICKNESS. CONCRETE POOL SHALL CONTAIN #3 REINFORCING RODS (3/8" DIAMETER) AT 12" CENTERS BOTH HORIZONTAL AND VERTICAL IN THE WALLS AND CONTINUING INTO THE FLOOR AT 12" CENTERS BOTH LENGTHWISE AND ACROSS THE POOL FLOOR. ALL REINFORCING STEEL SHALL OVERLAP AT LEAST 20
DIAMETERS WHEN JOINING SUCCESSIVE LENGTHS OF REINFORCING. WHEN LAYING THE
STEEL GRID IN THE FLOOR AREAS, THE GRID SHALL BE SUPPORTED ON STEEL "CHAIRS"
DESIGNED FOR THIS PURPOSE. THE USE OF BROKEN PIECES OF BRICK OR STONE TO SUPPORT
THE REINFORCING GRID WILL NOT BE TOLERATED. POOL SHALL WITHSTAND THE WATER
PRESSURE FROM WITHIN AND RESIST THE PRESSURE OF THE EARTH WHEN THE POOL IS

EMPTY, TO A PRESSURE OF 2,200 POUNDS/SQ. FT. P.S.F. MINIMUM. THE TOP OF THE "BOND BEAM" DIRECTLY BETWEEN THE COPING AREA SHALL CONTAIN TWO

(2) #4 REINFORCING RODS HORIZONTALLY AROUND THE POOL STRUCTURE. ALL REINFORCING
STEEL SHALL BE PLACED IN THE CENTER OF THE CONCRETE MASS, AND IN NO CASE SHALL ANY REINFORCING RODS BE CLOSER THAN 3" FROM THE WATER'S EDGE. D. THE POOL SKIMMERS SHALL BE CAST MONOLITHICALLY WITHIN THE CONCRETE STRUCTURE SO THAT THEY ARE SURROUNDED BY A MINIMUM OF 8" OF CONCRETE. ALL STEEL

REINFORCING SHALL BE COMMONLY GROUNDED WITH LIGHT NICHES, DECK BOXES, LADDER AND RAILING ANCHORS, AND PUMP MOTORS, USING #8 BARE COPPER GROUNDING WIRE, ALL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES. ALL PLUMBING LINES SHALL BE SCHEDULE 40 PRESSURE OR 100# PRESSURE POLYETHYLENE PIPE NSF APPROVED FOR POTABLE WATER. ALL INSERT FITTINGS USED FOR "POLYPIPE" SHALL BE GALVANIZED STEEL OR BRASS. NO PLASTIC INSERT FITTINGS SHALL BE ALLOWED. ALL PLUMBING LINES BURIED IN THE GUNITE CONCRETE SHALL BE PRESSURE TESTED PRIOR

TO COMMENCEMENT OF CONCRETE PLACEMENT. F. ALL CONDUIT RUNNING FROM SUBMERSIBLE WET LIGHT NICHES TO DECK BOXES SHALL BE 3/4" TYPE K SOFT COPPER. NO STEEL CONDUIT SHALL BE USED FOR THIS PURPOSE. ALL DECK BOXES SHALL BE U.L. APPROVED FOR SWIMMING POOL SERVICE. ALL SWIMMING POOL AND

BEFORE THE PLACEMENT OF CONCRETE BEGINS, THE FOOTING, STRUCTURAL, PLUMBING, AND ELECTRICAL GROUNDING INSPECTIONS SHALL HAVE BEEN ACCOMPLISHED BY THE VILLAGE OF NORTHBROOK. THE POOL "MAIN DRAIN" SHALL BE BEDDED IN A MINIMUM OF 8" OF CONCRETE AND SHALL BE ABOVE A "SUMP" CONTAINING AT LEAST ONE CUBIC YARD OF WASHED GRAVEL. A 2" HYDROSTATIC RELIEF LINE WILL RUN VERTICALLY UP FROM THE GRAVEL BED BELOW INTO

HE BOTTOM OF THE MAIN DRAIN HOUSING AND WILL BE TOPPED BY A 2" HYDROSTATIC I. AT THE TOP OF THE POOL WALL BENEATH THE COPING, THERE SHALL BE A 6" HIGH BORDER OF CERAMIC TILE. THIS TILE LINE SHALL BE APPLIED DIRECTLY TO THE GUNITE POOL SURFACE, SO THAT THE FUTURE PLASTER SURFACE CAN "WASH" DIRECTLY TO LOWER EDGE OF THE TILE. THE TILE SHALL BE "MUD SET" IN PORTLAND CEMENT MORTAR, IN ACCORDANCE WITH RECOMMENDED PROCEDURES OF THE AMERICAN TILE INSTITUTE. THE

THE INTERIOR OF THE POOL SHALL BE FINISHED WITH "MARCITE" PLASTER. WHEN THE POOL IS READY FOR FINISHING, IT SHALL FIRST BE ACID WASHED WITH STRAIGHT 18 DEGREE BAUME MURIATIC ACID TO REMOVE ANY DIRT OR RESIDUE OF THE CONSTRUCTION PROJECT. THE ACID WILL THEN BE NEUTRALIZED AND THEN THE POOL WILL BE RINSED THOROUGHLY WITH POTABLE WATER. THE POOL WILL THEN BE FINISHED BY SKILLED PLASTERERS, USING STANDARD PROCEDURES RECOMMENDED BY THE AMERICAN PLASTER INSTITUTE. THE FORMULATION OF THE "MARCITE" MIX SHALL BE AS FOLLOWS:

(1) 94# BAG MEDUSA PORTLAND CEMENT (OR EQUAL)
(4) 166# BAGS WHITE MARBLE DUST (MARCITE OR EQUAL) EQUAL PORTIONS OF POTABLE WATER AND ACRYL 60 TO CREATE A WORKABLE MIX

BY JACUZZI, LITTLE ROCK, ARKANSAS, OR EQUAL. THE PUMP CIRCUITS SHALL ALL BE GFCI PROTECTED. AND ALL PUMP MOTORS SHALL BE COMMONLY GROUNDED WITH THE BONDING GRID. POOL PUMPS SHALL BE SIZED AS FOLLOWS: INDOOR POOL SHALL HAVE ONE (1) 1 1/2 H.P. PUMP, CAPABLE OF 100 GPM OUTPUT AT 30 FEET TOTAL DYNAMIC HEAD.

ALL POOL AND SPA PUMPS SHALL BE 220 VAC SINGLE PHASE, MAGNUM AS MANUFACTURED

2. INDOOR SPA SHALL HAVE (1) 3/4 HP PUMP ON THE FILTRATION AND HEATING CIRCUIT, AND ONE (2) 1 1/2 H.P. PUMP ON THE HYDROTHERAPY CIRCUIT. 3. INDOOR SPA SHALL HAVE REGENERATIVE BLOWERS FOR AIR INDUCTION INTO THE SEAT AREAS. THE BLOWERS SHALL BE 2 H.P. ROTON, OR EQUAL, AS PRODUCED BY AIR

POOL SHALL BE EQUIPPED WITH PUREX MINI-MAX TROPIC ISLE POOL HEATER, MODEL 250M,

OR EQUAL. PUREX POOL HEATER MANUFACTURED BY THE HYDROTECH CHEMICAL CORPORATION, MARIETTA, GEORGIA. SPA SHALL BE EQUIPPED WITH TRITON MIHIMAX 250,000 BTU AS MANUFACTURED BY PAC FAB, INC., SANFORD, NORTH CAROLINA. POOL SHALL BE EQUIPPED WITH "JACUZZI TRISHOPS" HIGH RATE CARTRIDGE FILTER, MODEL TC300, MANUFACTURED BY JACUZZI TRISHOPS, LITTLE ROCK, ARKANSAS, OR EQUAL. FILTER IS RATED AT 100 GPM FILTRATION RATE AND IS NSF APPROVED. SPA SHALL BE EQUIPPED WITH JACUZZI CF 150 STAINLESS STEEL CARTRIDGE FILTER AS MANUFACTURED BY HYDROTECH CHEMICAL CORPORATION, OR EQUAL. FILTER IS RATED AT 150 GPM AND IS NSF APPROVED.

ALL UNDERWATER LIGHTS FOR THE POOL AND SPA SHALL BE 12 VOLT, 75 WATT HALOGEN LAMP UNITS, WET NICHE TYPE, UL LISTED, AND CONNECTED TO UL LISTED STEP DOWN TRANSFORMERS DESIGNED FOR THIS PURPOSE, ALL IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES. THE LIGHTS AND ASSOCIATED NICHES SHALL BE PUREX TRITON'S HORIZON SERIES AS PRODUCED BY PAC FAB, INC., OR EQUAL. ALL LIGHTS SHALL INCLUDE HEAT SENSING LOW WATER CUT OFF DEVICES. POOL SHALL HAVE SIX (6) SUCH LIGHTS EACH, SPACED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. SPA SHALL HAVE ONE LIGHT AS SHOWN ON THE ARCHITECTURAL DRAWINGS. TRIMS SHALL BE STAINLESS STEEL. PROVIDE DARK BLUE COLOR—PAK LENSES. PERIMETER LIGHTING BELOW COPING AT INTERIOR FACE OF POOL AND SPA SHALL BE ACCENT GLO FIBER OPTIC LIGHTING AS MANUFACTURED BY FIBERSTARS, INC., FREMONT, CALIFORNIA. PROVIDE COLOR WHEEL AND REMOTE CONTROL.

POOL SHALL BE EQUIPPED WITH "AQUAZONE" #200VR OZONE GENERATOR AS PRODUCED BY AQUAZONE PRODUCTS COMPANY, ELK GROVE VILLAGE, ILLINOIS, OR EQUAL. EACH UNIT SHALL BE PROPERLY SIZED PER THE MANUFACTURER'S SPECIFICATIONS. SPA TO BE EQUIPPED WITH AQUAZONE 100 GENERATOR. POOL AND SPA SHALL BE EQUIPPED WITH CLARITEC NATURE 2 PROFESSIONAL PURIFIER BY FOUNTAINHEAD TECHNOLOGIES, INC.

POOL SHALL HAVE THREE SETS OF RECESSED STEPS. THE STEPS SHALL BE MOLDED WHIT CYCOLCA PLASTIC AND IMBEDDED IN THE CONCRETE SIDEWALL OF THE POOL WHERE SHOWN ON THE ARCHITECTURAL PLANS. LADDER SHALL HAVE THREE STEP TREADS AS MANUFACTURED BY THE FROST COMPANY, KENOSHA, WISCONSIN, CAT. NUMBER S3988 OR EQUAL. AT THE TOP OF THE WALL AND SET INTO THE DECK SHALL BE A PAIR OF STAINLESS STEEL GRAB RAILS, FROST COMPANY #41791 OR EQUAL. THESE GRAB RAILS SHALL BE SET INTO FROST DECK ANCHORS, #A41650 OR EQUAL. DECK ANCHORS SHALL BE PROPERLY

POOL SHALL HAVE FOUR (4) INLET JETS, MASTER SUPPLY #M5075, WHITE CYCOLAC, OR EQUAL. SPA SHALL HAVE EIGHT (8) JETS (2 MICRO'SSAGE AND 6 CONVERTA'SSAGE) AS

SPA SHALL HAVE AN AIR BAR IN THE SEAT, PLUMBED IN A COMPLETE LOOP WITH COMPRESSED AIR ENTRIES AT OPPOSITE POINTS ON THE LOOP FOR EQUAL AIR DISPERSION. THIS BAR SHALL BE MASTER SUPPLY #M6000 OR EQUAL. H. POOL DECK DRAINS SHALL BE "DECK-O-DRAIN MARK II", AS PRODUCED BY DFC CORPORATION, ELGIN, ILLINOIS. THE DECK DRAINS SHALL BE PLUMBED INTO THE SANITARY

PROVIDE (2) STAINLESS STEEL PIPE SLEEVES IN POOL WALLS/COPING AS REQUIRED FOR

MOUNTING OF RECREATIONAL NET. SLEEVES TO BE FABRICATED AND INSTALLED AS NECESSARY TO PROVIDE LEVEL INSTALLATION OF NET. SLEEVES TO BE FLUSH WITH POOL SPA SHALL BE EQUIPPED WITH TAPERED VINYL JACKETED INSULATED COVER AS PRODUCED BY SUNSTAR MANUFACTURING, SAN MARCOS, CALIFORNIA, OR EQUAL. COVER SHALL BE EQUIPPED WITH A LOCKING ASSEMBLY TO FASTEN THE COVER TO THE DECK. THE VINYL COLOR SELECTION SHALL BE MADE BY THE ARCHITECT AND/OR OWNER. SPA SHALL ALSO BE EQUIPPED WITH A FLOATING BLANKET, COLOR TO BE SELECTED, ALSO AS PRODUCED BY SUNSTAR MANUFACTURING, OR EQUAL.

SAFETY PRECAUTIONS: SWIMMING POOL SHALL BE EQUIPPED WITH ONE THROWING RING BUOY NOT MORE THAN FIFTEEN INCHES (15") IN DIAMETER AND HAVING SIXTY FEET (60') OF THREE-SIXTEENTHS INCH (3/16") MANILA LINE ATTACHED, AND ONE OR MORE LIGHT B STRONG POLES WITH BLUNTED ENDS AND NOT LESS THAN TWELVE FEET (12') IN LENGTH, FOR

DIVISION 14 - CONVEYING SYSTEMS

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE THE DESIGN AND INSTALLATION OF HEATING, COOLING, AND VENTILATING SYSTEMS, INCLUDING BUT NOT LIMITED TO HEATING PLANT(S) DISTRIBUTION, AIR CONDITIONING SYSTEM, HUMIDIFICATION, TEMPERATURE (DUAL SETTING/COMPUTER SETBACK THERMOSTATS) AND HUMIDIFICATION CONTROL, ELECTRONIC AIR CLEANER/FILTER, EXHAUST FANS, GAS FIRED EQUIPMENT FLUES AND APPLIANCE VENTS. ALL FURNACES SHALL BE HIGH EFFICIENCY. ENTIRE SYSTEM SHALL CONFORM TO APPLICABLE ASHRAE AND SMACNA STANDARDS. CONTRACTOR SHALL CALCULATE HEAT LOSS AND GAIN, SIZE ALL DUCTS AND EQUIPMENT TO GUARANTEE SYSTEM WILL HEAT HOUSE TO 740F AT -150 OUTSIDE TEMPERATURE WITH 15 M.P.H. WIND AND COOL HOUSE TO 740F AT 950 OUTSIDE TEMPERATURE CONTRACTOR TO PROVIDE THE NUMBER, MANUFACTURER, AND EFFICIENCY OF THE FURNACES, A/C COMPRESSOR AND ASSOCIATED EQUIPMENT REQUIRED TO MEET THE MECHANICAL HEATING AND

COOLING SPECIFICATIONS AT TIME OF BID SUBMITTAL. FURNACES HAVE BEEN ANTICIPATED. ZONED AS FOLLOWS:

ZONE 1 - EAST WING ZONE 2 - SOUTH WIN ZONE 3 - WEST WING - SOUTH WING ZONE 4 - DRY-O-TRON COOLING AND HUMIDIFICATION CONTROL SYSTEM FOR INDOOR POOL. ZONE 5 - GARAGE-WILLIAMS "FORSAIRE" DIRECT VENT FURNACE. SHOP DRAWINGS ARE TO BE SUBMITTED INDICATING DUCT, FLUE, AND VENT SIZES AND LOCATIONS SUPPLY AND RETURN GRILLE SIZES AND LOCATIONS, MANUFACTURERS LITERATURE ON EQUIPMENT BEING SUPPLIED, AND CALCULATIONS FOR HEAT LOSS, HEAT GAIN, AND SYSTEM SIZING. SHOP PRAWINGS AND LITERATURE ARE TO BE SUBMITTED FOR ARCHITECT'S REVIEW PRIOR TO

MECHANICAL CONTRACTOR TO REVIEW LAYOUT OF SUPPLY AND RETURN GRILLS AND LOCATION OF THERMOSTATS WITH ARCHITECT AND INTERIOR DESIGNER IN FIELD PRIOR TO INSTALLATION. GARAGE HEATER SHALL BE CAPABLE OF HEATING TO 400 - 500 AT 00 OUTSIDE TEMPERATURE. PROVIDE COMBUSTION AIR FOR FURNACES AND WATER HEATERS IN ACCORDANCE WITH NFPA 54. PROVIDE SUPPLY AIR DUCTWORK TO ALL SKYLIGHTS INCLUDING INDOOR POOL, MASTER BATH AND ALL SUPPLY REGISTERS TO BE 4" X 10" UNLESS NOTED OTHERWISE. PAINT INSIDE OF FLOOR SUPPLY DUCTS ONE (1) COAT FLAT BLACK.

ALL SUPPLY, RETURN AND EXHAUST DUCT OPENINGS SHALL BE COVERED WITH SCREENING DURING JOINTS AND SEAMS OF SUPPLY AND RETURN DUCTS TO BE SECURED PROPERLY AND SUBSTANTIALLY PROVIDE HIGH/LOW RETURN AIR REGISTERS IN EACH ROOM.

ALL SHEET METAL DUCT SYSTEMS TO HAVE SUFFICIENT IN-LINE DAMPERS FOR BALANCING PURPOSES. 10. RUN ALL DUCTWORK TIGHT TO UNDERSIDE OF FLOOR CONSTRUCTION IN BASEMENT/CRAWL SPACE. 11. ALL DUCTWORK TO SPAS AND POOLS TO BE ALUMINUM. PITCH ALL DUCTWORK TO DRAIN/SUMP. 12. TYPE "B" FLUES TO BE INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND MANUFACTURER'S 13. HEATING CONTRACTOR TO CONNECT FLUE FROM HOT WATER HEATER INTO FURNACE FLUE.

14. CHIMNEY OR VENT CONNECTORS SHALL HAVE A RISE OF AT LEAST 1/4" TO THE FOOT OF RUN AND BE 15. VENT ALL POWDER ROOM AND BATH EXHAUST FANS THROUGH ATTIC TO ROOF VENTS 16. DRYERS TO BE VENTED DIRECTLY TO THE EXTERIOR AND PROVIDED WITH BACK DRAFT DAMPERS. 17. ALL GAS LINES TO GAS APPLIANCES SHALL BE RUN BY PLUMBING CONTRACTOR AND PROVIDED WITH

18. VERIFY LOCATION OF GAS LOG LIGHTER WITH ARCHITECT IN FIELD. 19. HEATING CONTRACTOR TO RUN ALL CONDENSATE LINES TO FLOOR DRAIN. 20. PLASTIC (PVC) PIPING FOR WASTE AND VENT AND COPPER (OR EQUAL) WATER SUPPLY PIPING SHALL CONFORM TO LATEST ASTM SPECIFICATIONS FOR RESIDENTIAL USE.

A SHUT-OFF VALVE AT THE APPLIANCE.

21. PROVIDE 2, 75-GALLON WATER HEATERS WITH 10-YEAR GUARANTEE. 22. PROVIDE "ACE-IN-THE-HOLE" BATTERY BACK-UP FOR FOOTING SUMPS. PROVIDE WALL-MOUNTED 23. PROVIDE GRAVITY FEED HOT WATER RECIRCULATING SYSTEM THROUGHOUT HOUSE.

24. PROVIDE CLEANOUTS AT EVERY CHANGE OF DIRECTION AND IN ANY RUN WITH A BEND GREATER 25. PROVIDE SHUT-OFF VALVES AT EACH HOT AND COLD WATER LINE AT EVERY FIXTURE.

26. PROVIDE 12" AIR CHAMBERS AT EACH HOT AND COLD WATER LINE AT EVERY FIXTURE. DIVISION 16 - ELECTRICAL

PROVIDE A MINIMUM OF 600 AMP SERVICE. PROVIDE UNDERGROUND ELECTRIC SERVICE. INCLUDE ALL UTILITY COMPANY CHARGES. 3. ALL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. 4. ALL WP RECEPTACLES SHALL BE WEATHER-PROOF AND HAVE GROUND FAULT INTERRUPTER.

5. ALL INTERIOR RECEPTACLES SHALL BE OF THE GROUNDED TYPE. ALL OUTLETS DESIGNATED TO BE GFI ARE TO BE U.L. LISTED GFI OUTLETS, NOT STANDARD OUTLETS CONNECTED TO A GFI CIRCUIT. GFI CIRCUITS MAY ONLY BE USED FOR THOSE DIRECT-WIRED APPLIANCES AND FIXTURES THAT REQUIRE GFI PROTECTION. RECEPTACLES IN KITCHEN MOUNTED AT 46" AND BATHS AT 42" TO BE INSTALLED ABOVE COUNTER

. ALL OTHER RECEPTACLES NOT MENTIONED ABOVE TO BE INSTALLED HORIZONTALLY AT 16" ABOVE FLOOR (VERIFY WITH OWNER). 9. WALL SWITCHES TO BE INSTALLED 46" ABOVE FLOOR. 10. ALL DIRECTLY CONNECTED HVAC AND KITCHEN APPLIANCES TO BE DIRECT WIRED BY ELECTRICIAN.

11. CONTRACTOR SHALL VERIFY POWER REQUIREMENTS FOR ALL APPLIANCES IN FIELD PRIOR TO 12. SMOKE DETECTORS TO BE U.L. APPROVED AND MEET GOVERNING CODE REQUIREMENTS. COORDINATE LOCATIONS AND INSTALLATION WITH OWNERS SECURITY CONSULTANT. 13. ALL RECESSED ELECTRICAL FIXTURES SHALL BE LOCATED A MINIMUM OF 2" FROM ANY

14. RECESSED FIXTURES INSTALLED IN INSULATED CEILINGS TO BE "IC" TYPE. 15. EXERCISE CARE WITH CONDUIT AND ELECTRIC BOX WHEN SWITCHES OR RECEPTACLES ARE AT POCKET DOOR LOCATIONS TO INSURE DOOR DOES NOT SCRAPE AGAINST CONDUIT OR ELECTRIC BOX. 16. COORDINATE LOCATION OF LIGHT FIXTURES AND SWITCHES WITH OWNER AND/OR ARCHITECT IN FIELD PRIOR TO INSTALLATION.

17. ALL SURFACE-MOUNTED LIGHT FIXTURES NOT SPECIFIED TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. 18. VERIFY COLOR OF OUTLETS AND SWITCHES WITH OWNER. 19. COORDINATE INSTALLATION OF SECURITY SYSTEM WITH OWNER'S SECURITY CONSULTANT.

 COORDINATE INSTALLATION OF SOUND SYSTEM WITH OWNERS AUDIO/VIDEO CONSULTANT. 21. T.V. JACKS TO BE PREWIRED FOR CABLE T.V., COORDINATE COMPATIBILITY AND INSTALLATION WITH LOCAL CABLE T.V. COMPANY. 22. ALL TELEPHONE WIRING SHALL BE "HOME RUN". ALL WIRING SHALL BE TWISTED PAIR. ALL TELEPHONE JACKS SHALL BE MODULAR. PROVIDE DUPLEX JACKS WHERE MULTIPLE LINES OCCUR.

A. THE MARCUS RESIDENCE, 2225 GREENVIEW ROAD, NORTHBROOK, IL, PLAN #95076, DATED 12-20-96 SHEETS AO - A12. CONTACT THE GENERAL CONTRACTOR FOR BID SUBMISSION.

B. CONTRACT DOCUMENTS MAY BE OBTAINED AT THE OFFICE OF THE THE OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS, T WAIVE ANY INFORMALITIES IN BIDDING, OR ACCEPT THE BID THAT, IN HIS OPINION, WILL SERVE HIS BEST INTEREST.

CONTRACTORS SUBMITTING A BID WITH A PRODUCT SUBSTITUTION SHALL BE REQUIRED TO SUBMIT MANUFACTURER'S PRODUCT DATA AND SAMPLES (WHERE APPROPRIATE) AT THE TIME OF BID SUBMISSION. ANY PRODUCT SUBSTITUTION NOT APPROVED BY ARCHITECT AND OWNER PRIOR TO EXECUTION OF OWNER/GENERAL CONTRACTOR AGREEMENT WILL NOT BE ACCEPTED.

THIS NOTICE IS WRITTEN IN THE NAME OF THE OWNER.

INSTRUCTIONS TO BIDDERS

A. CONTRACTORS ARE REQUIRED TO MAKE A SITE INSPECTION. PLEASE CALL SELWYN MARCUS AT 926-1754 TO SET UP AN APPOINTMENT. PROVIDE CONTRACTOR'S SPREAD SHEET (WITHOUT SUBCONTRACTOR NAMES) SHOWING LINE ITEM COSTS FOR EACH TRADE. THE FOLLOWING ITEMS ARE TO BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR:

> HARDWAR BATH ACCESSORIES PLUMBING FIXTURES DOORBELLS AND CHIMES LIGHT FIXTURES RECESSED IRONING BOARD

D. PROVIDE PRICING FOR THE FOLLOWING ALTERNATES: PROVIDE ALUMINUM WINDOWS AND GLASS DOORS AS SPECIFIED, PROVIDE MARVIN WOOD WINDOWS AND GLASS DOORS, IN LIEU OF PELLA AS SPECIFIED.
PROVIDE LOW "E" GLASS AT ALL WINDOWS AND GLASS DOORS. DELETE INTERIOR FOOTING PERIMETER DRAIN LINES, EXTERIOR PERIMETER DRAIN LINES TO REMAIN. PROVIDE RUB-R-WALL FOUNDATION WALL WATERPROOFING, IN LIEU OF DAMPPROOFING. PROVIDE MANUFACTURER'S STANDARD LIFETIME WARRANT PROVIDE STO "ARMORMAT" AT ENTIRE HOUSE, IN LIEU OF STANDARD MESH. PROVIDE GUNITE POOL CONSTRUCTION AS SPECIFIED, IN LIEU OF

POURED CONCRETE.
PROVIDE 10" WIDE WALLS AND 10" DEEP FOOTINGS AT CRAWL SPACE AND GARAGE, IN LIEU OF 12" WIDE FOUNDATION WALL. E. BIDS SHOULD INCLUDE THE FOLLOWING ALLOWANCES: FOYER DOOR: \$3,000.00

F. SCHEDULES

FOLLOWING THE AWARDING OF THE CONTRACT AND TO COMPLETE THE WORK AS QUICKLY AS GOOD CONSTRUCTION PRACTICE ALLOWS.
CONTRACTORS SHALL INCLUDE COSTS FOR PERMITS AND FEES IN THEIR BID. CONTRACTORS SHALL PROVIDE NECESSARY WINTER CONSTRUCTION PROTECTION INCLUDING BUT NOT LIMITED TO: FROST PROTECTION IN EXCAVATIONS, COLD WEATHER CONCRETE WORK AND

INCLUDE IN YOUR BID ALL PERMITS, SPOT SURVEY OF FOUNDATION AT COMPLETION OF BACKFILL, COST OF INSPECTIONS, AND SITE CLEARING AS NECESSARY, RUBBISH REMOVAL, TEMPORARY ROADS AS REQUIRED, A PROFESSIONAL CLEANING OF HOUSE PRIOR TO OCCUPANCY AND ALL OTHER INCIDENTAL EXPENSES NECESSARY TO ACCOMPLISH THE WORK. PRICES QUOTED IN BASE PROPOSALS SHALL BE GUARANTEED FOR A PERIOD OF THIRTY DAYS AFTER DATE OF PROPOSAL. ALTERNATES SHALL BE GUARANTEED FOR SIXTY DAYS AFTER DATE.

H. BIDDER'S RESPONSIBILITY FOR CONDITIONS OF WORK AND SITE BEFORE SUBMITTING A BID. BIDDERS SHALL CAREFULLY EXAMINE THE DRAWINGS, AND OTHER DATA MADE AVAILABLE, VISIT THE SITE OF THE WORK FULLY INFORM THEMSELVES AS TO ALL EXISTENT CONDITIONS AND LIMITATIONS, INCLUDING STRUCTURE OF THE GROUND, SUBSURFACE CONDITIONS, THE OBSTACLES WHICH MAY BE ENCOUNTERED, AND ALL OTHER RELEVANT MATTERS CONCERNING THE WORK TO BE PERFORMED AND SHALL INCLUDE IN THE BID A SUM TO COVER THE COST OF ALL SUCH ITEMS TO BE INCLUDED IN THE CONTRACT. NO BIDDER TO WHOM A CONTRACT IS AWARDED SHALL BE ALLOWED ANY EXTRA COMPENSATION ON ACCOUNT OF ANY

MATTER OR THING CONCERNING WHICH SUCH BIDDER MIGHT HAVE INFORMED HIMSELF PRIOR TO THE BIDDING. THE LANDSCAPE ARCHITECT IS LAND DESIGN COLLABORATIVE, EVANSTON, ILLINOIS. CONTRACTORS SHALL COORDINATE WITH JIM GAMBLE (328-4435) ALL ASPECTS OF CONSTRUCTION NECESSARY, INCLUDING, BUT NOT LIMITED TO: INSTALLATION OF STONE BASE, PROTECTION OF TREES, STOCKPILING OF SOIL, ROUGH GRADING AND POURING OF STOOPS.

INTERPRETATION OF CONTRACT DOCUMENTS: IF ANY PERSON CONTEMPLATING SUBMITTING A BID FOR THE PROPOSED CONTRACT IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE CONTRACT DOCUMENTS OR OTHER DATA, HE MAY SUBMIT TO THE ARCHITECT A REQUEST FOR AN INTERPRETATION. THE PERSON SUBMITTING A WRITTEN REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY. ANY INTERPRETATION OF THE DOCUMENTS WILL BE MADE ONLY BY AN ADDENDUM DULY ISSUED. A COPY OF SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH BIDDER OF RECORD.

C.

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