

REMODELING PROJECT

114 S. 12th St. Building

INDEX OF DRAWINGS

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IMPORTANT:
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KELLY E. LYONS, P.E. # 56191

GENERAL NOTES

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE STRUCTURAL PLANS & SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING 2010 RESIDENTIAL R301 FOR 145 MPH WIND, 3 SEC. GUST EXPOSURE B, IMPORTANCE FACTOR = I, ENCLOSED, BUILDING CATEGORY II.

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTOR'S USE OR, ALL PROPERTY MARKERS SHALL BE SPOSED AND A STRING STRETCHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

PRIOR TO START CONSTRUCTION G. C. SHALL VERIFY W/ TRUSS MANUFACT AND STRUCTURAL ENGINEER THE LOCATION OF ALL INTERIOR LOAD BEARING WALLS TO ADJUST SLAB AS NECESSARY.

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VERIFY ALL DIMENSIONS AT JOB BEFORE STARTING CONSTRUCTION IN ORDER TO AVOID PROBLEMS DURING CONSTRUCTION.

SEE SHEET S1 FOR TERMITE TREATMENT

ALL TECH STRUCTURAL ENGINEERING INC. ENGINEER
KELLY E. LYONS, P.E.
2121 BEARS AVE.
TAMPA, FLORIDA 33618
PHONE: (813) 969-2099
P.E. # 56191
BL # EB9333

CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL [] RES. [] COM. []
[] SITE [] LOG [] FIELD [] NO PLAN []
[] REVIEW [] APPROVAL []
BUILDING: DATE: []
PLUMBING: DATE: []
MECHANICAL: DATE: []
ELECTRICAL: DATE: []
COMMENTS: []
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES. It is unlawful to make any changes or alterations without written approval from the City of Tampa Construction Services Division. The Stamping of this plan SHALL NOT be held to permit or approve the construction of any City or State Codes.
RENEWAL FOR CODE COT. CHANGE

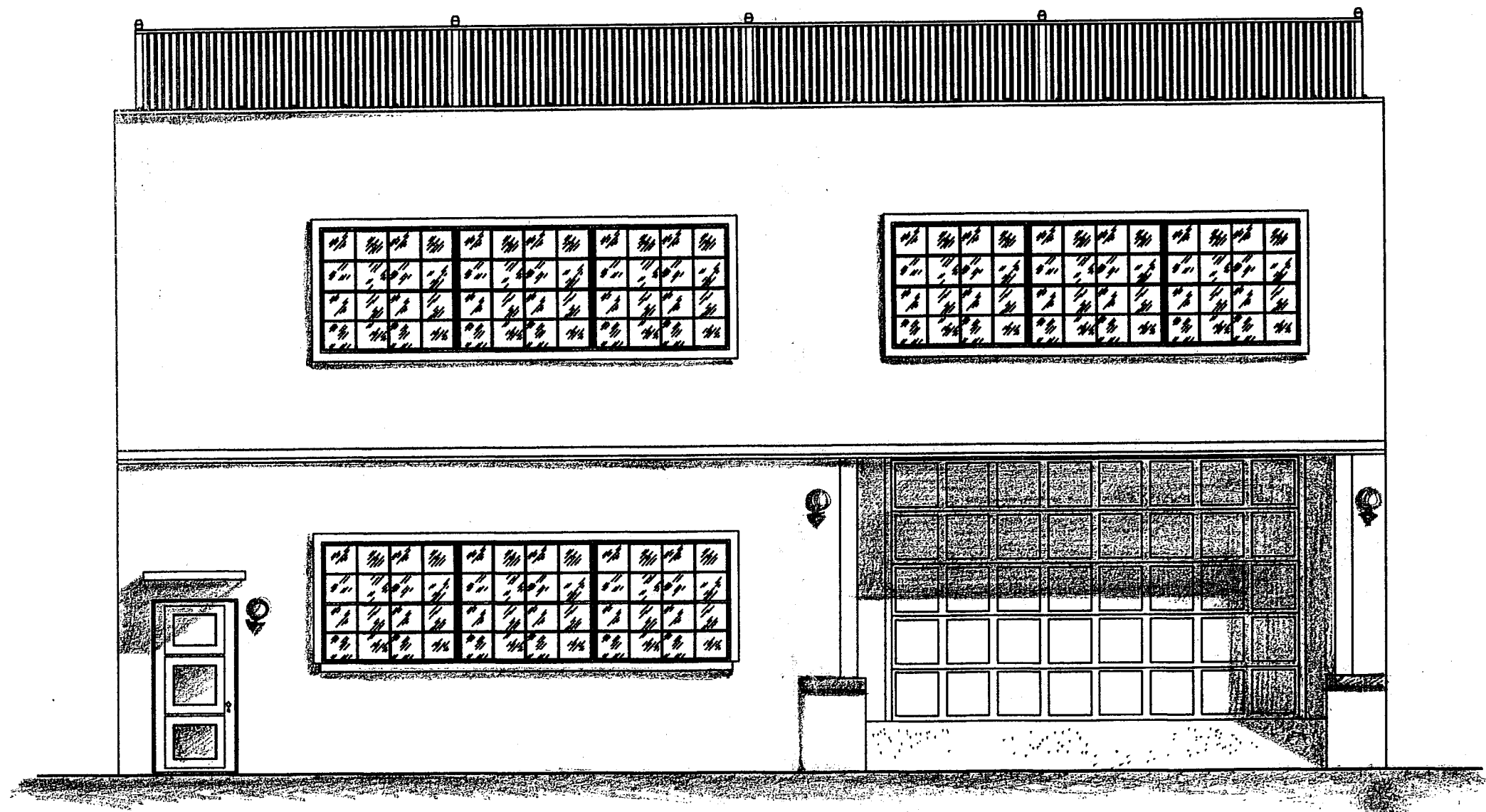
SHEET 1 of 10 A1
SITE PLAN

BUILDER:
Tran Contracting, Inc.
12516 Sugar Pine Way, Tampa, Florida, 33624
Phone: (813) 293-1684 Fax: (813) 967-8989
President: Hui Y. Tran PE 56191
LIC. CGC1513229 & CAC1816079

PROJECT: Remodeling Project
Address: 114 S. 12th St., Tampa, Florida
Owner(s):
Phone: (813) 495-6491 PROJECT #: 205

ENGINEERING BY:
All Tech Structural Engineering, Inc.
2121 W. Bears Ave. Tampa, Florida, 33618
Phone: (813) 503-4211 Fax: (813) 247-7409
Engineer: Kelly E. Lyons P.E. # 56191 BL # EB9333

DRAWINGS BY:
Navarete Drafting, Inc.
5114 S. 66 Street, Tampa, FL 33619
(813) 626-8432
Draftman: Gabriel Navarete



BUILDING IS LOCATED IN AN AIR BORN DEBRIS AREA. IMPACT GLASS ON DOORS AND WINDOWS OR OPENINGS PROTECTION REQUIRED.

R301.2.1.2 Protection of openings.
Wood structural with a minimum thickness of 7/16 inch (11 mm) and a maximum span of 8 feet (2438 mm) shall be permitted for opening protection in one and two story buildings. Panels shall be pre-cut and attached to the framing surrounding the opening containing the product with the glazed opening. Panels shall be pre-drilled as required for the anchorage method and shall be secured with the attachment hardware provided. Attachments shall be designed to resist the component and cladding loads determined in accordance with either Table R301.2(2) or ASCE 7, with the permanent corrosion-resistant attachment hardware provided and anchors permanently installed on the building. Attachment in accordance with Table R301.2.1.2 is permitted for buildings with a mean roof height of 33 feet (10 058 mm) or less where Vasd determined in accordance with Section R301.2.1.3 does not exceed 130 miles per hour (58 m/s).

TABLE R301.2.1.2 WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS(a,b,c,d)

FASTENER TYPE	FASTENER SPACING (inches) a,b		
	Panel span ≤ 4 feet	4 feet < Panel span ≤ 6 feet	6 feet < Panel span ≤ 8 feet
No. 8 wood screw based anchor with 2-inch embedment length.	16	10	8
No. 10 wood screw based anchor with 2-inch embedment length.	16	12	9
1/4-inch lag screw based anchor with 2-inch embedment length.	16	16	16

For Slt: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound = 4.448 N, 1 mile per hour = 0.447 m/s.

a. This table is based on Vasd, as determined in accordance with Section R301.2.1.3, of 130 mph and a 33-foot mean roof height.

b. Fasteners shall be installed at opposing ends of the wood structural panel. Fasteners shall be located a minimum of 1 inch from the edge of panel.

c. Anchors shall penetrate through the exterior wall covering with an embedment length of 2 inches minimum into the building frame. Fasteners shall be located a minimum of 2 1/2 inches from the edge of concrete block or concrete.

d. Where panels are attached to masonry or masonry/concrete, they shall be attached using vibration-resistant anchors having a minimum ultimate withdrawal capacity of 1500 pounds.

PROTECTION PANELS SHOULD BE KEPT IN A SAFE, SECURE & PROTECTED PLACE. THEY SHOULD BE LABELED AND EASY TO ACCESS.

DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN ON THE DOCUMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. NOTIFY US IMMEDIATELY REGARDING ANY DISCREPANCIES.

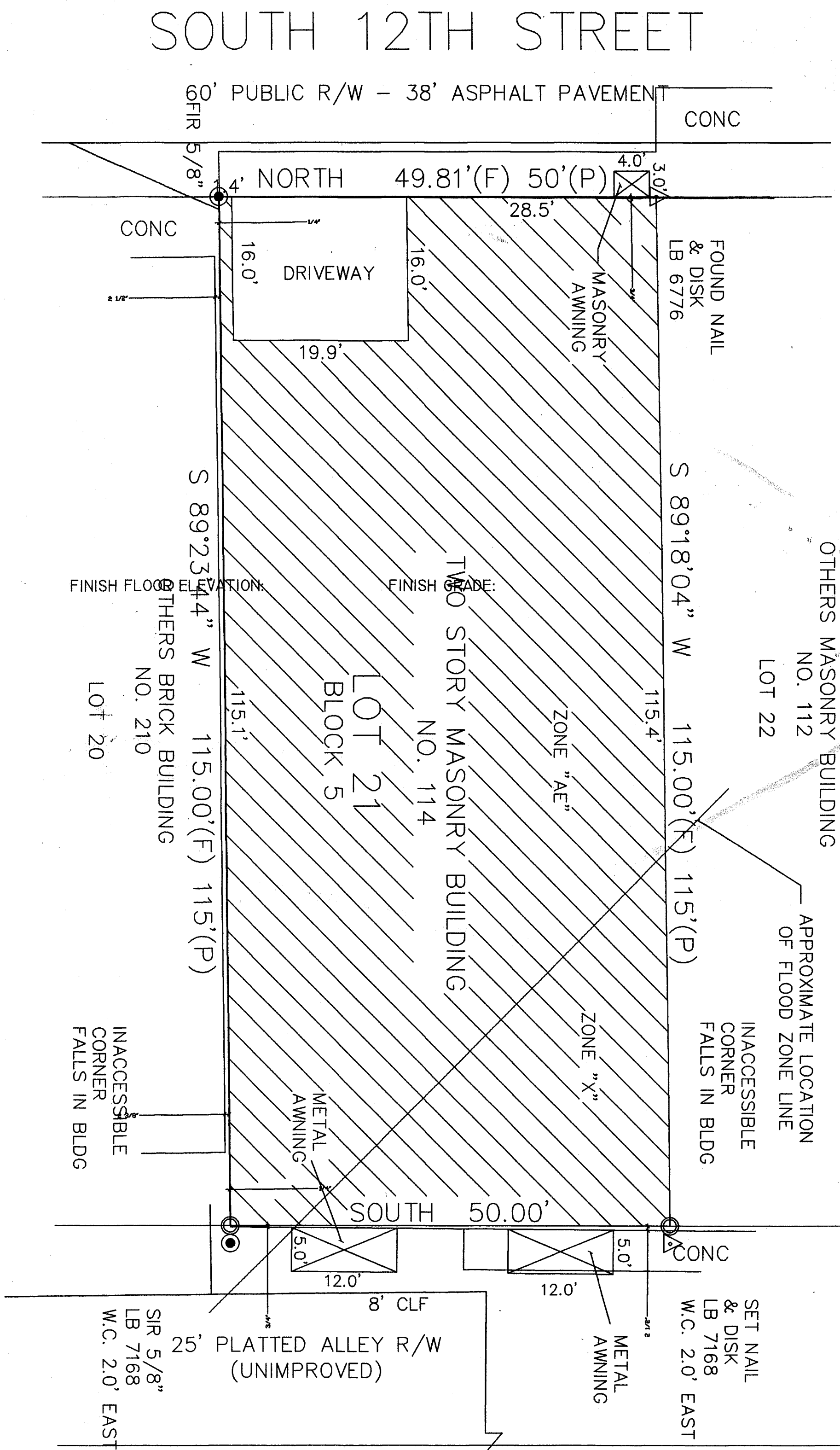
NO PROTECTED TREES ON THE PREMISES OR ON ADJACENT PROPERTIES 20' OR CLOSER TO THE NEW ADDITION.

ADDITION FINISH FLOOR ELEVATION TO MATCH EXISTING HOUSE FINISH FLOOR ELEVATION.

EXISTING FINISH GRADE TO REMAIN UNDISTURBED. NO NEW FILL OUTSIDE THE FOUNDATION LIMITS WILL BE PLACED.

APPROVED PRODUCTS LIST

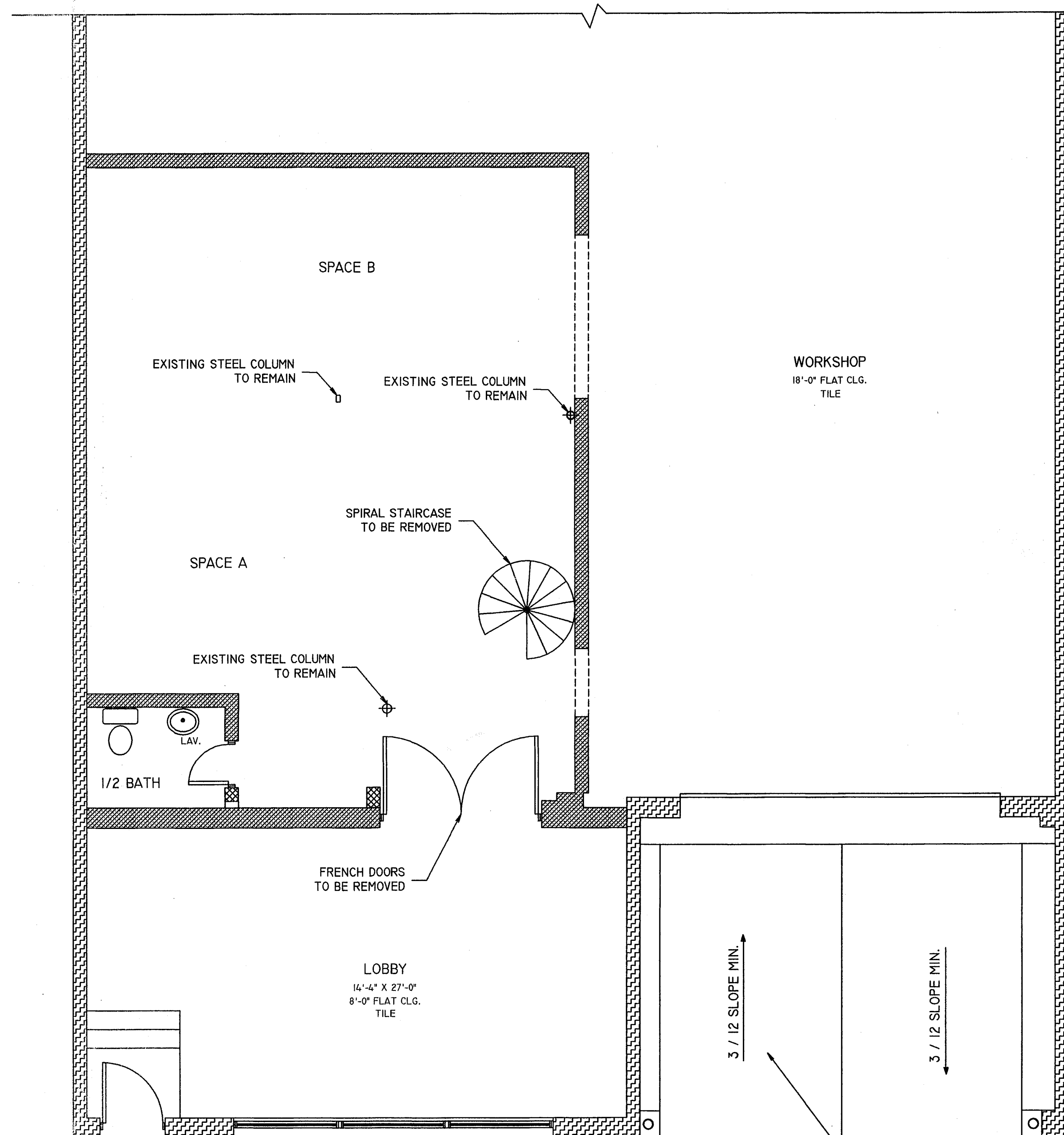
PRODUCT CATEGORY	SUB-CATEGORY	MANUFACTURER	STATE OF FLORIDA APPROVAL NUMBER	EXPIRATION DATE
Structural Component	Wood Connector Anchors	Simpson Strong Tie Co.	FL9589-S, FL474-96, FL10860-6, FL10860-12, FL10849-6, FL104556-II, FL11473-18, FL10655-94	APPROVED
Structural Component	Concrete Lintel	Cast-Crete Corporation	FL158-R5	APPROVED
Structural Component	SoFlits	Aloxex Home Exterior, Inc.	FL11506-4	APPROVED
Doors	Exterior Doors (Swinging Door)	Therma-tro Corp.	FL5891-R3, FL 6993-R3, FL7347-R4, FL8604-R4, FL9202-R4	APPROVED
Doors	Garage Doors	Clopay Bldg Products	FL5675, FL5678, FL5684, FL10396	APPROVED
Doors	Sliding Glass Doors	Marvin Windows & Doors	FL4939	APPROVED
Doors	Sliding Glass Doors	American Craftsman	FL10976	APPROVED
Windows	Single Hung	Jeld-Wen	FL10970-R2, FL11120-R5, FL14095-R1, FL14104-R4, FL14707-R1	APPROVED
Windows	Single Hung	POT Industries	FL239-R18, FL1435-R10	APPROVED
Windows	Fixed	POT Industries	FL243-12, FL5012-R9, FL15045-R1	APPROVED
Roofing	Barrel Tile	Hanson Roof Tile	FL3505-R2	APPROVED
Roofing	Asphalt Shingles	GAF Materials Corp.	FL10124-R1	APPROVED
Roofing	Built Up Roof	GAF	FL11946-R2	APPROVED
Roofing	Underlayment	GAF	FL10626-R7, FL15487	APPROVED
Roofing	Ridge Vents	Tanko Building Prod.	FL6267-R1	APPROVED
Panel Wall	Glass Block	Pittsburgh Coming Corp.	FL1363-R4	APPROVED



SITE PLAN

SCALE: 1" = 20'

96050/418576 419620



EXISTING FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

WALL LEGEND

	EXISTING EXTERIOR MASONRY WALLS (BEARING)		NEW 2 X 4 INTERIOR FRAMED WALLS (NON-BEARING)
	EXISTING INTERIOR MASONRY WALLS (BEARING)		NEW 8" MASONRY WALLS
	EXISTING 2 X 4 INTERIOR FRAMED WALL		NEW 2 X 4 INTERIOR FRAMED WALLS (NON-BEARING)
	EXISTING WALLS TO BE REMOVED		NEW 2 X 6 WALLS

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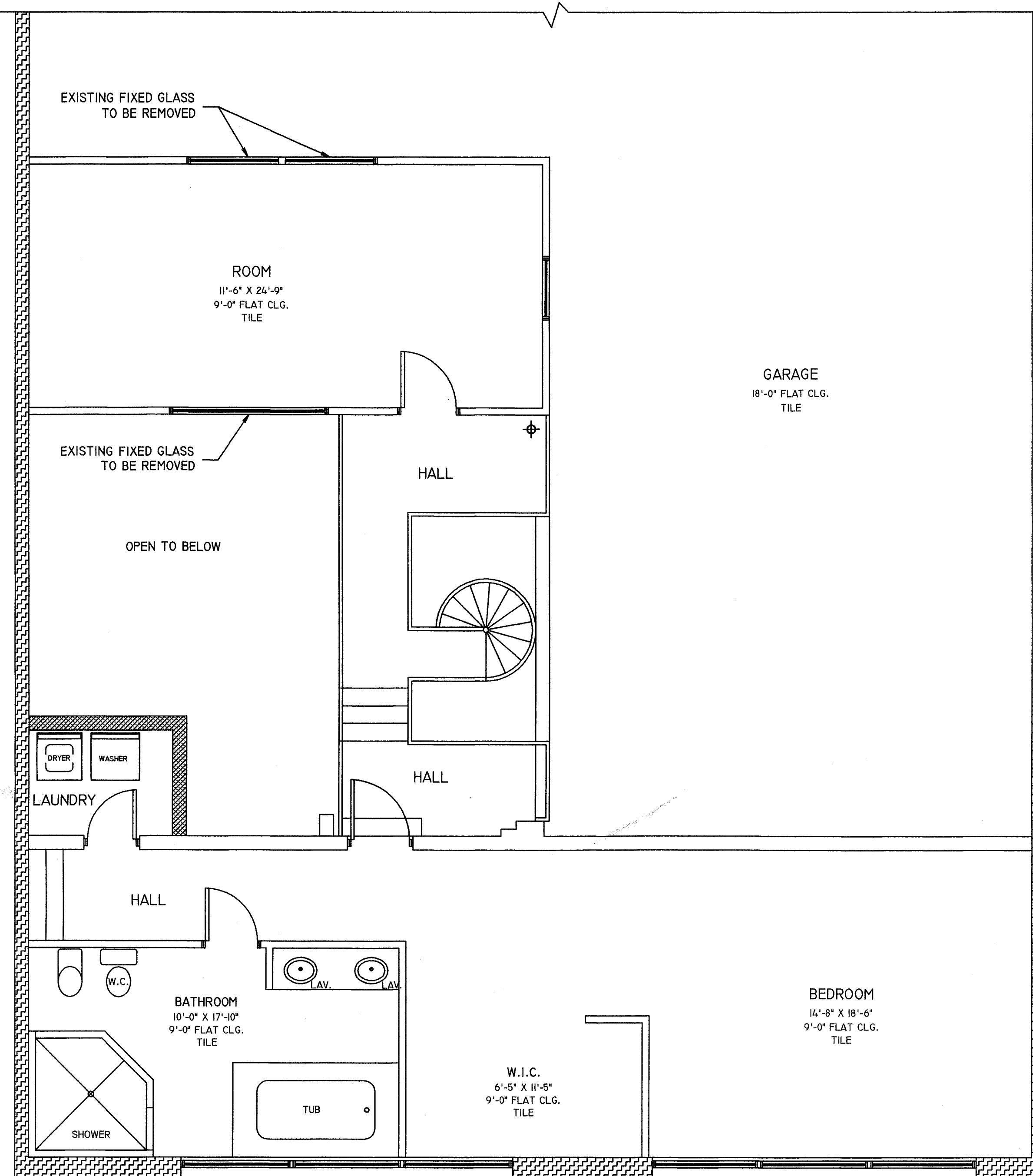
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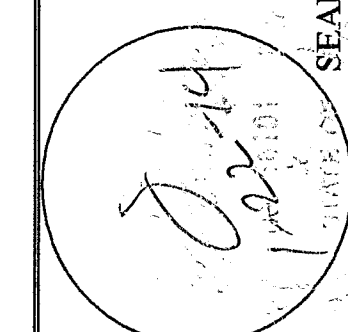
ALL TECH STRUCTURAL ENGINEERING, INC. ENGINEER KELLY E. LYONS, P.E. 2121 W. BEARS AVE. TAMPA, FLORIDA 33618. PHONE: (813) 969-2099 P.E. # 56191 BL # EB9333



EXISTING SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

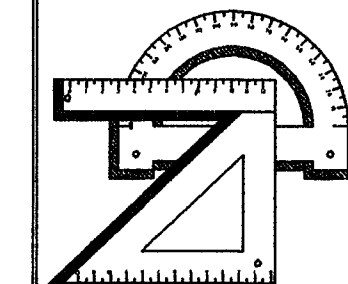
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Engineer: Kelly E. Lyons PE 56191
BL # EB9333

DRAWINGS BY:
Navarrete Drafting, Inc.
5114 S. 66 Street, Tampa, FL, 33619.
(813) 626 8432
Draftman: Gabriel Navarrete



SHEET
2 of 10 **A2**
EXISTING FIRST & SECOND FLOOR PLAN

NEW FIRST FLOOR PLAN

WALL LEGEND

	EXISTING EXTERIOR MASONRY WALLS (BEARING)		NEW 2 X 4 INTERIOR FRAMED WALLS (NON-BEARING)
	EXISTING INTERIOR MASONRY WALLS (BEARING)		NEW 8" MASONRY WALLS
	EXISTING 2 X 4 INTERIOR FRAMED WALL		NEW 2 X 4 INTERIOR FRAMED WALLS (BEARING)
	EXISTING WALLS TO BE REMOVED		NEW 2 X 6 WALLS

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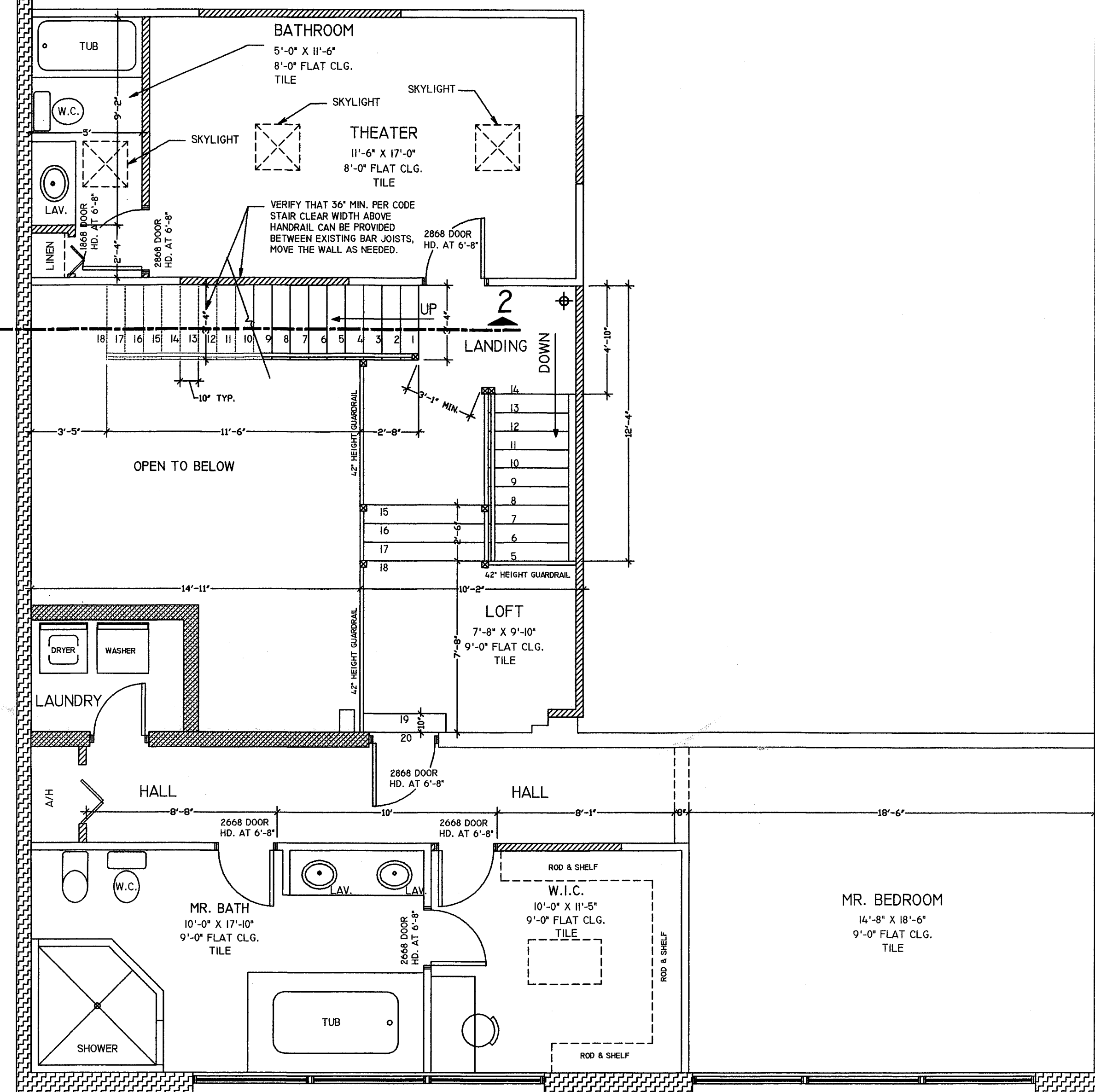
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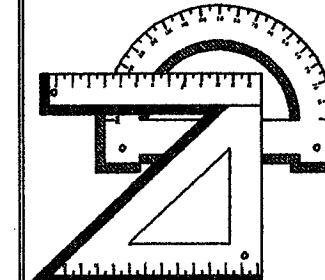
ALL TECH STRUCTURAL ENGINEERING, INC.
ENGINEER
KELLY E. LYONS P. E.
2121 BEARS AVE.
TAMPA, FLORIDA 33618
PHONE: (813) 969 - 2099
P.E. # 56191
BL # EB9333



NEW SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

DRAWINGS BY:

Navarrete Drafting, Inc.
5114 S. 66 Street, Tampa, FL, 33619.
(813) 626 8432
Draftsman: Gabriel Navarrete



SHEET
3 of 10 **A3**

NEW
FIRST & SECOND
FLOOR PLAN

ENGINEERING BY:
All Tech Structural Engineering, Inc.
2121 W. Bearss Ave. Tampa, Florida, 33618.
Phone: (813) 503 4211 Fax: (813) 247 7409
Engineer: Kelly E. Lyons PE 56191 BL EB0233

PROJECT: Remodeling Project

Address: 114 S. 12th St., Tampa, Florida

Owner(s):

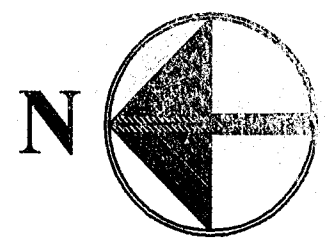
Phone: (813) 495-6491

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FOR 145 MPH WIND, 3 SEC. GUST
EXPOSURE B, IMPORTANCE FACTOR = 1,
ENCLOSED, BUILDING CATEGORY II.



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SEE SHEET S-1 FOR
TERMITE TREATMENT

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ENGINEER
KELLY E. LYONS P. E.
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TAMPA, FLORIDA 33618
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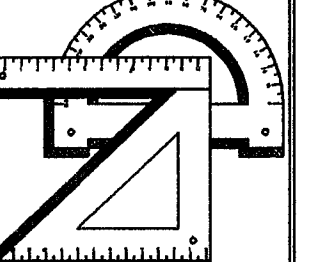
STRUCTURAL NOTES

- ① 1/8" X 2" X 2" A36 METAL ANGLE WELDED
TO TOP CHORD OF EXISTING BAR JOIST
W/ 1/8" FILLET WELD & E70 ELECTRODES.
- ② 2 X 12'S RAFTERS W/ LSLUZOI USING
(8) - 3/16" X 2" TAPCONS AND (4) - 10 #4
NAILS TYP.
- ③ 2 X 6 LEDGER ATTACHED TO EXISTING
CONC. BLOCK WALL USING 1/4" X 5" X 5"
TAPCONS 2 ROWS 8" O.C.

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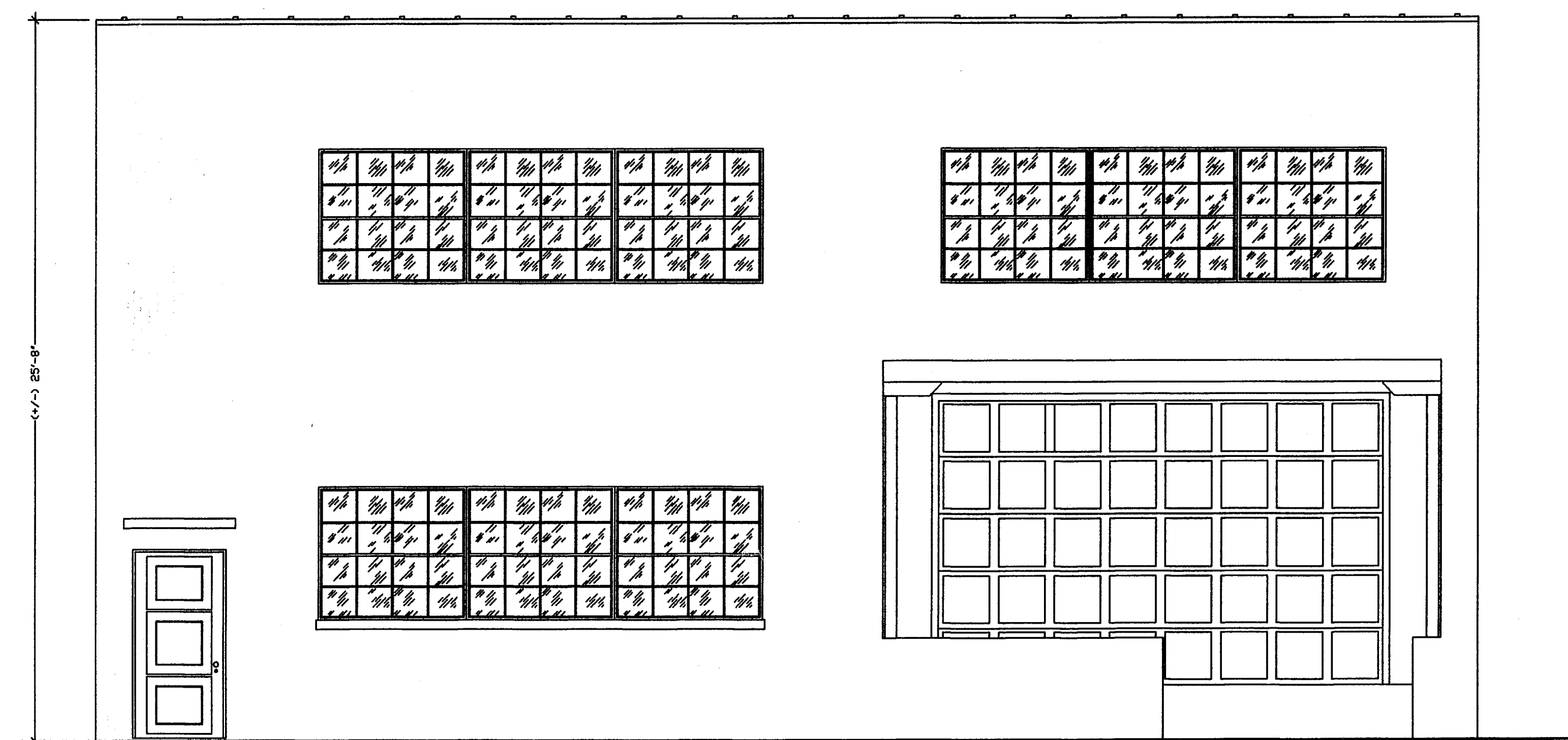
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DRAFTSMAN: GABRIEL NAVARRETE



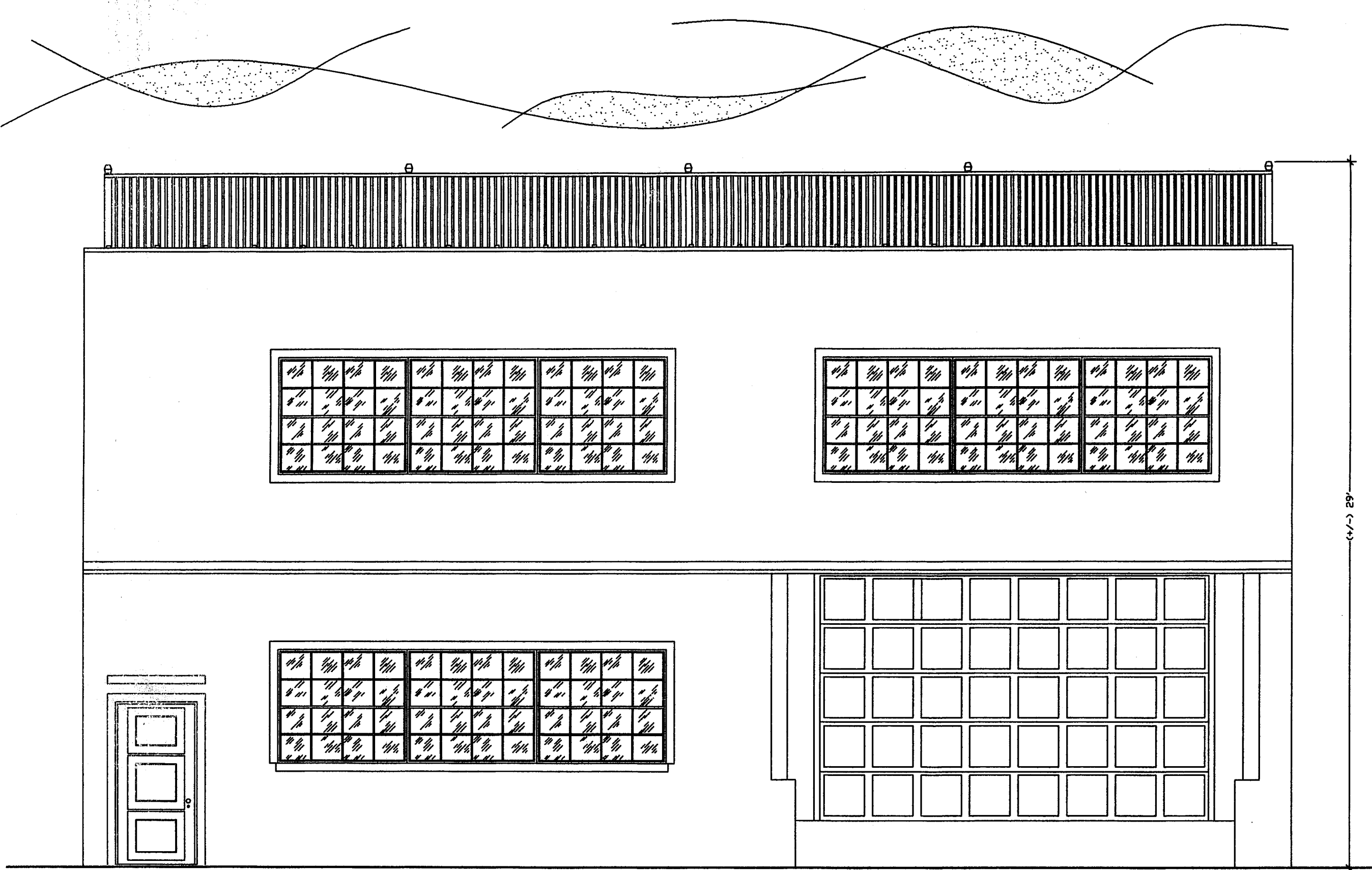
SHEET
4 of 10 A4

ROOF FRAMING
PLAN &
ELEVATIONS



EXISTING FRONT ELEVATION

SCALE: 1/4" = 1'-0"



NEW FRONT ELEVATION

SCALE: 1/4" = 1'-0"

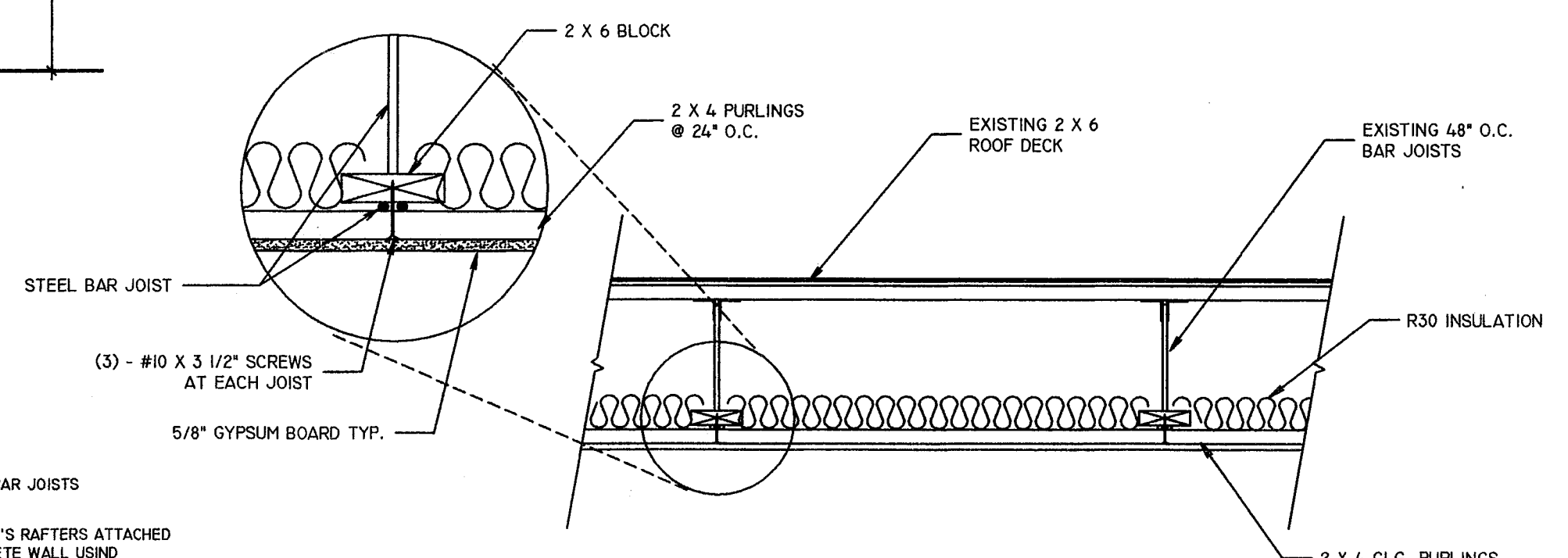
EMERGENCY EGRESS
ONE SASH OF THIS GROUP MUST BE EQUIPPED
WITH EMERGENCY EGRESS
HARDWARE TO COMPLY WITH GOVERNING FIRE
AND BUILDING CODES.

EMERGENCY ESCAPE WINDOW
MAXIMUM SILL HEIGHT FROM FLOOR: 44"
MINIMUM CLEAR OPENING HEIGHT: 20"
MINIMUM CLEAR OPENING WIDTH: 20"
MINIMUM CLEAR OPENING AREA: 5.7 SQ. FT.
GROUND FLOOR CLEAR OPENING: 5.0 SQ. FT.

NOTE:
FLASHING SHALL BE INSTALLED AT WALL AND
ROOF INTERSECTIONS, AT ALL CHANGES IN ROOF,
SLOPE OR DIRECTION, AT GUTTERS, AND AROUND
ROOF OPENINGS.

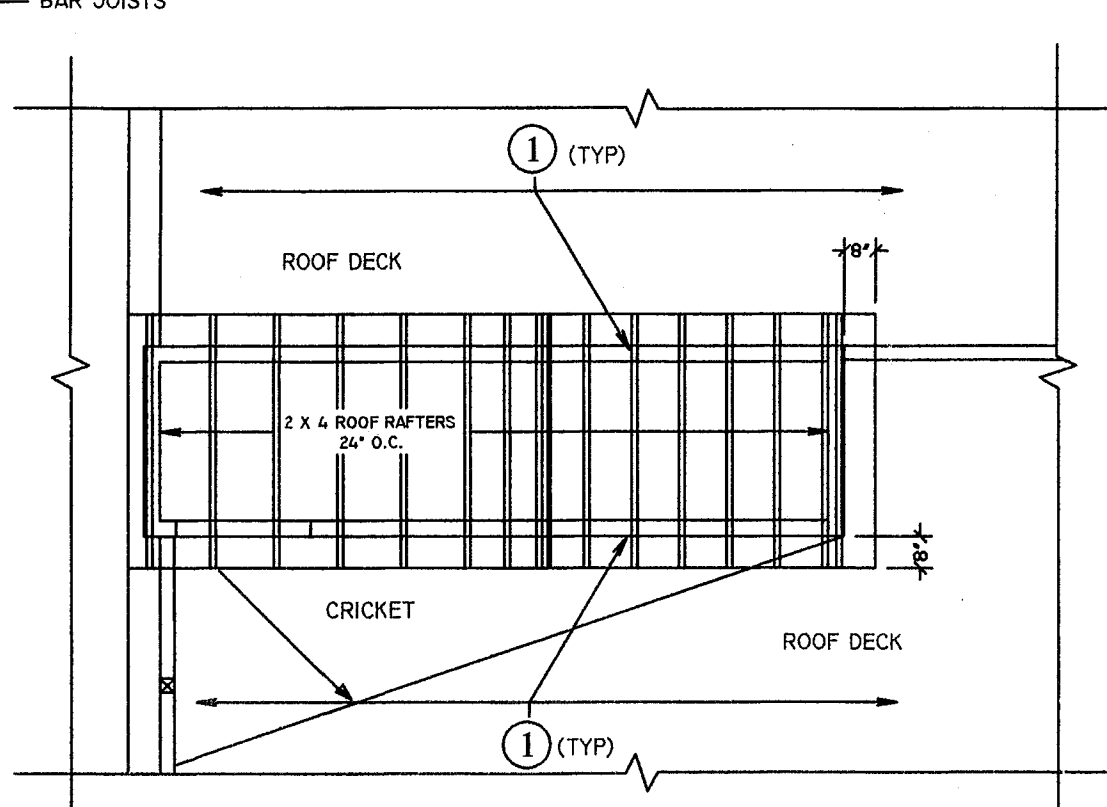
JOISTS LEGEND

===== EXISTING BAR JOISTS
————— NEW 2 X 12'S RAFTERS ATTACHED
TO CONCRETE WALL USING



ROOF FRAMING PLAN

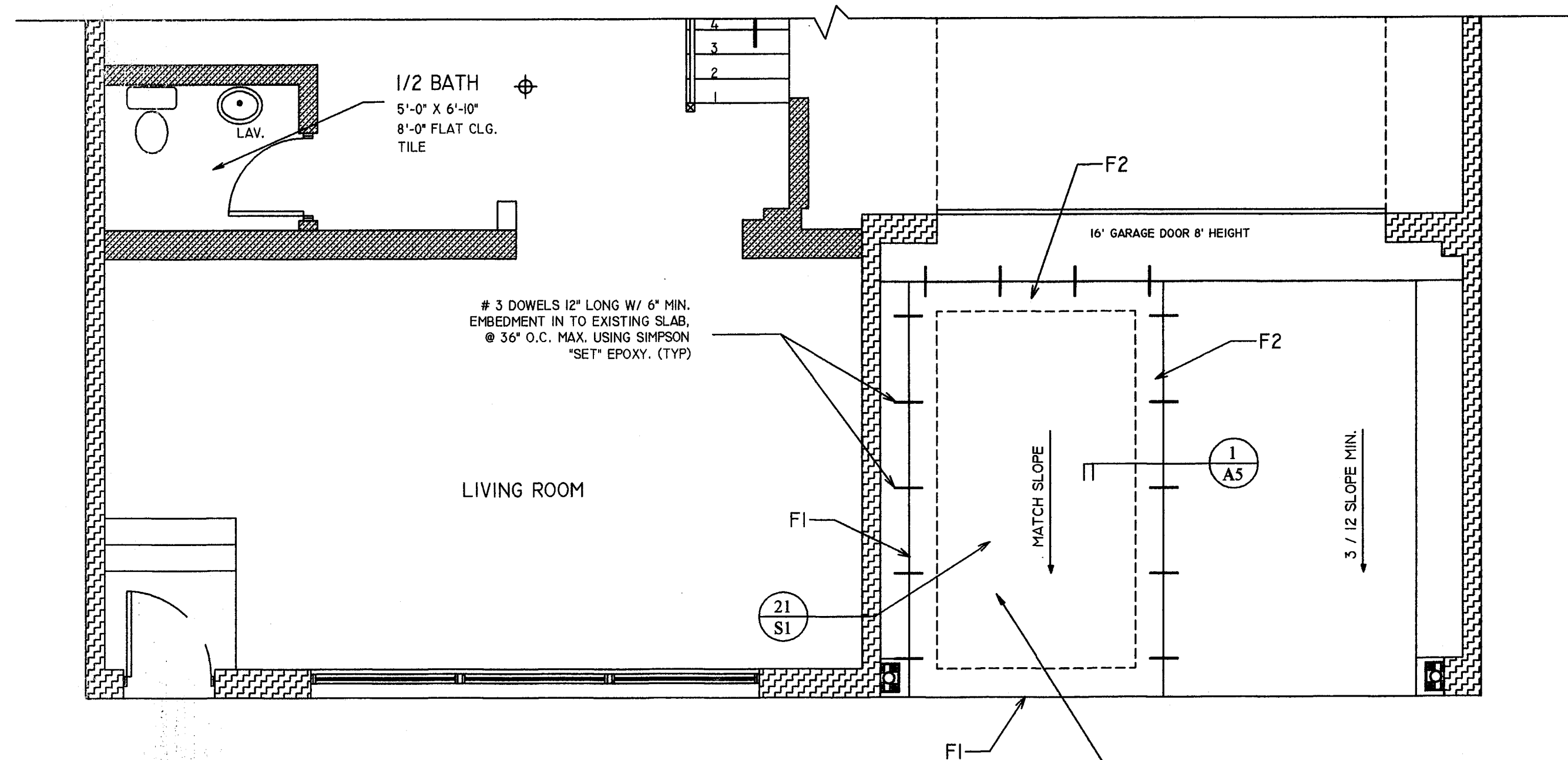
SCALE: 1/4" = 1'-0"



STAIRCASE ROOF FRAMING

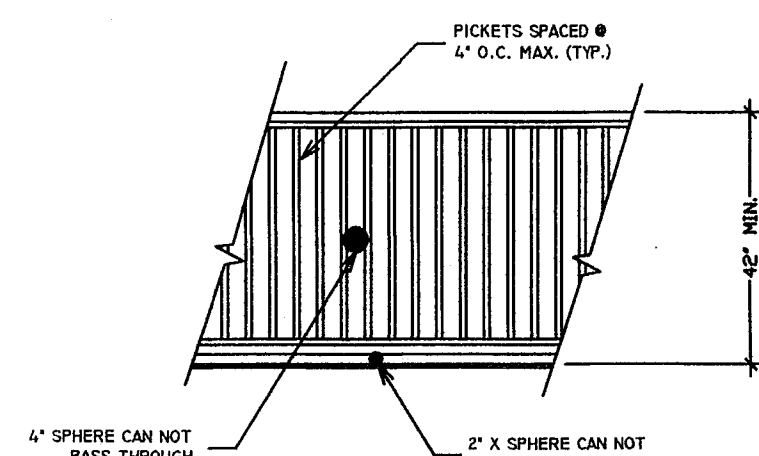
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GLG. ATTACHEMENT
SCALE: N.T.S.



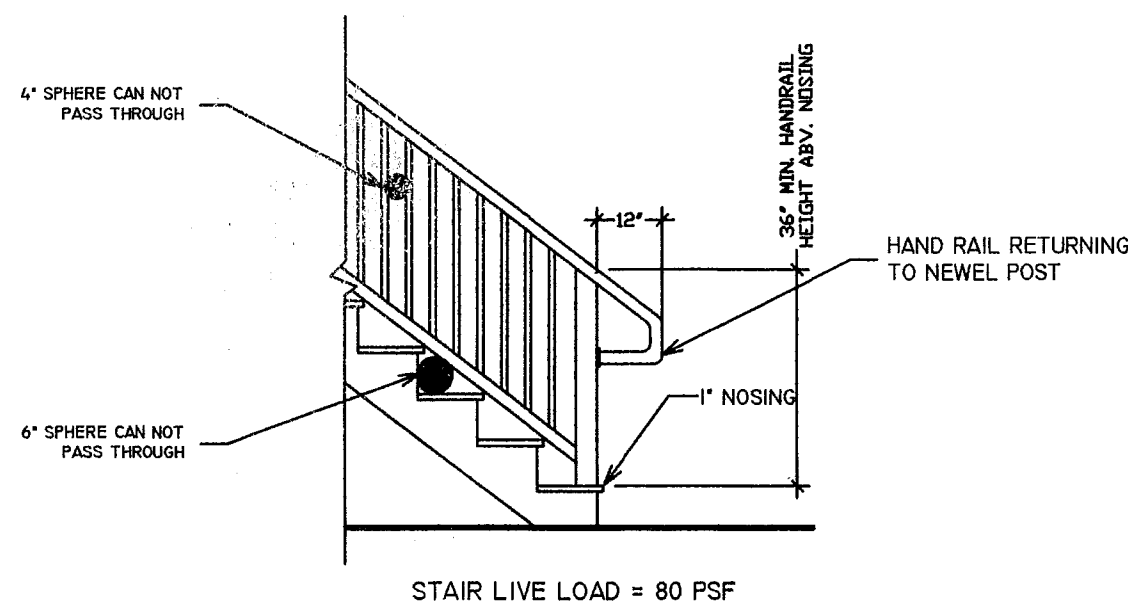
FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



GUARDRAIL

NOTE:
SELECTED HANDRAIL SHALL BE DESIGNED TO SUPPORT 50 PLF OR A CONCENTRATED LOAD OF 200 LB. APPLIED AT ANY POINT IN ANY DIRECTION.



STAIR LIVE LOAD = 80 PSF

HANDRAIL

NEW HANDRAIL & GUARDRAILS DETAILS

SCALE: 1" = 1'-0"

2
A5

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	12" H. X 12" W. FOOTER	W/ (1) #5 BARS CONT.
F2	8" H. X 16" W. FOOTER	W/ (2) #5 BARS CONT.

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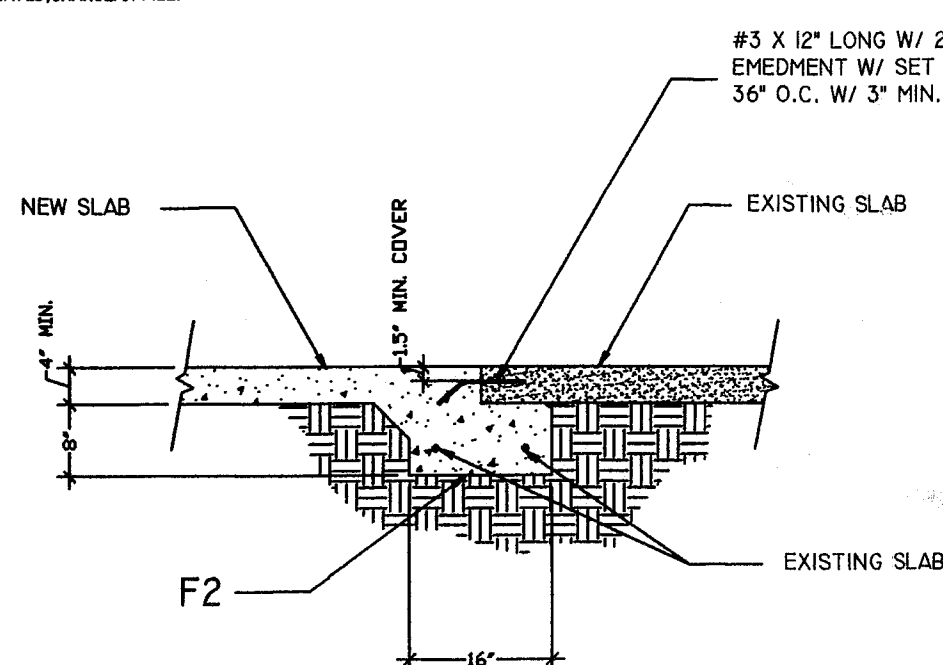
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IMPORTANT:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS BEFORE CONSTRUCTION BEGINS. ALLTECH STRUCTURAL ENGINEERING INC. IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS PROJECT ONLY. ANY DISCREPANCY BETWEEN FILED CONDITIONS, OTHER DESIGN PROFESSIONAL'S SHOP DRAWINGS, CONTRACTOR'S BUILDING METHODS, AND THESE SIGNED AND SEALED DRAWINGS, MUST BE BROUGHT TO THE ATTENTION OF ALLTECH STRUCTURAL ENGINEERING INC. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. KELLY E. LYONS, P.E. # 56091

BUILDING IS LOCATED IN AN AIR BORN DEBRIS AREA. IMPACT GLASS ON DOORS AND WINDOWS OR OPENINGS PROTECTION REQUIRED.

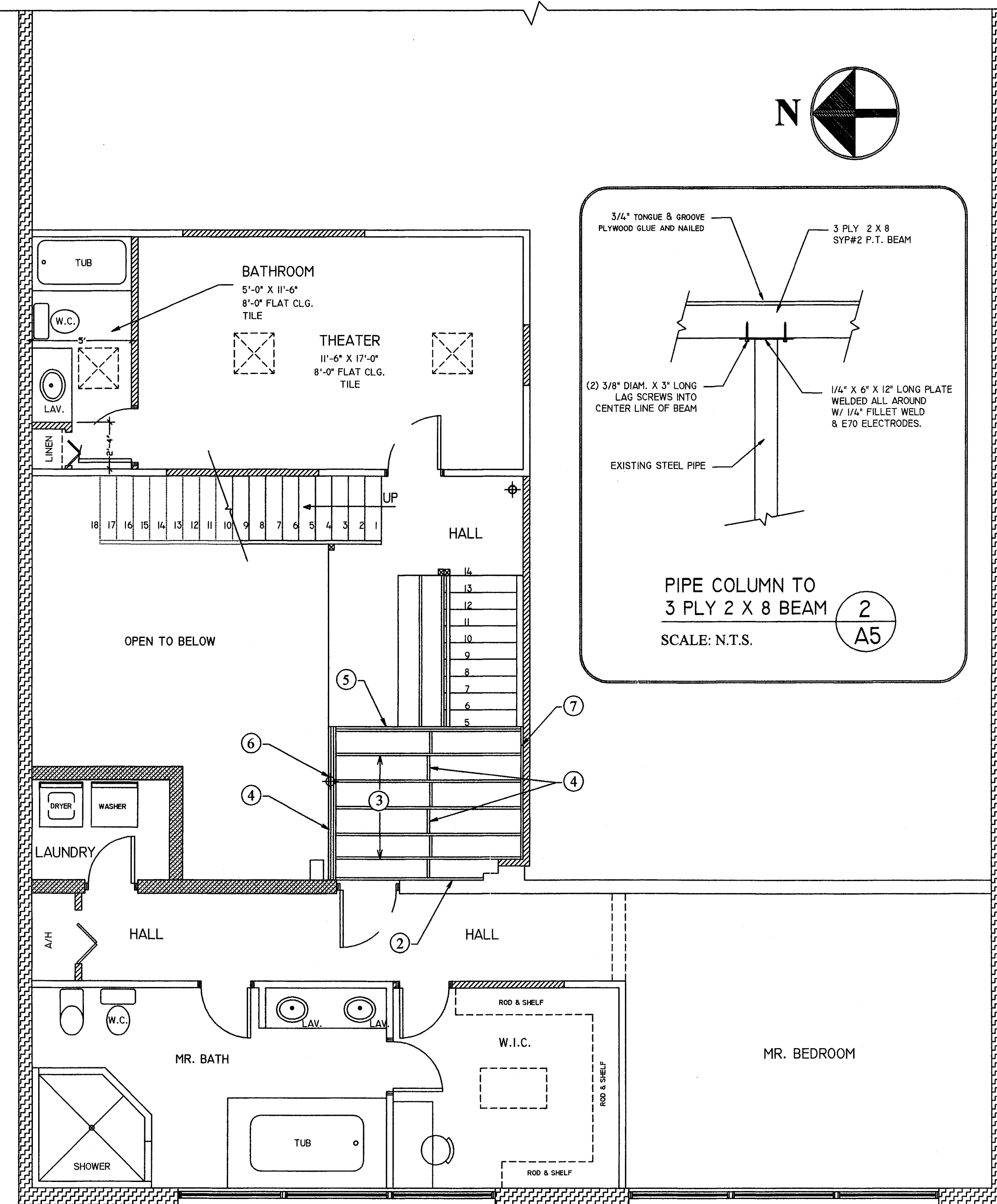
DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN ON THE DOCUMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. NOTIFY US IMMEDIATELY REGARDING ANY DISCREPANCIES.



NEW TO OLD SLAB CONNECTION

SCALE: N.T.S.

1
A5



FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

STRUCTURAL NOTES

- 2 X 8 SYP#2 P.T. LEDGER ATTACHED FRAME WALL W/ TWO ROWS 10d NAILS AND SDS SCREWS 16" O.C. STAGGERED.
- 2 X 8 SYP#2 P.T. LEDGER ATTACHED TO CONCRETE WALL USING 1/4" X 3 1/2" TAPCONS 2 ROWS 16" O.C.
- 2 X 8 SYP#2 P.T. JOISTS 12" O.C. ATTACHED TO BEAMS USING SIMPSON HUS26 W/ (20) 16d NAILS & 6 16d NAILS. (1550# MAX. UPLIFT)

- 3 PLY 2 X 8 SYP#2 P.T. FLOOR BEAM ATTACHED PLIES USING 16d NAILS IN TWO ROWS 8" O.C. ATTACH TO MASONRY USING SIMPSON HUS28 USING (8) 3/16" X 2" TAPCONS & 10d NAILS.
- DBL 2 X 8 SYP#2 P.T. FLOOR BEAM ATTACHED PLIES USING 16d NAILS IN TWO ROWS 8" O.C. ATTACH TO MASONRY USING SIMPSON HUS28 USING (8) 3/16" X 2" TAPCONS & 10d NAILS.

- EXISTING STEEL PIPE COLUMN SEE DETAIL 2/A5.

- 2 X 8 BLOCKING AT MID SPAN W/ (3) 16d TOE NAILS @ EACH END.

BUILDER:
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12516 Sugar Pine Way, Tampa, Florida, 33624,
Phone: (813) 293-1684 Fax: (813) 967-8989
President: Hai V. Tran PE 56191
LIC. CGC1513229 & CAC1816079

PROJECT : Remodeling Project

Address: 114 S. 12th St, Tampa, Florida

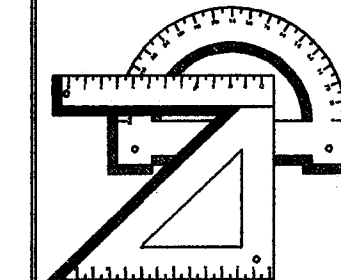
Owner(s):

Phone: (813) 495-6491

PROJECT #: 205

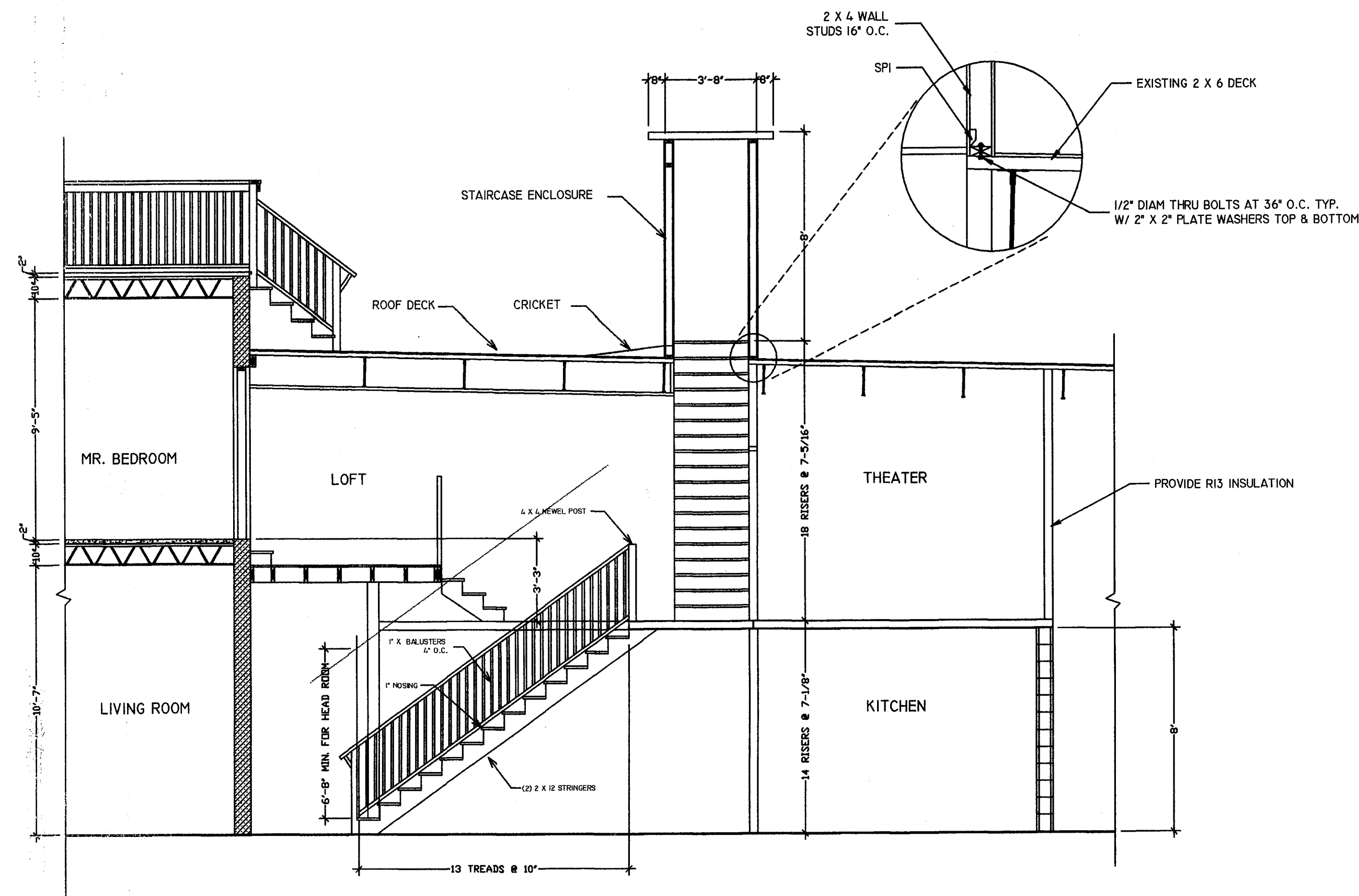
ENGINEERING BY:
All Tech Structural Engineering, Inc.
2121 W. Bearss Ave, Tampa, Florida, 33618.
Phone: (813) 593-4211 Fax: (813) 247-7409
Engineer: Kelly E. Lyons PE 56191
BL EB9333

DRAWINGS BY:
Navarete Drafting, Inc.
5114 S. 66 Street, Tampa, FL, 33619.
(813) 626-8432
Draftman: Gabriel Navarete



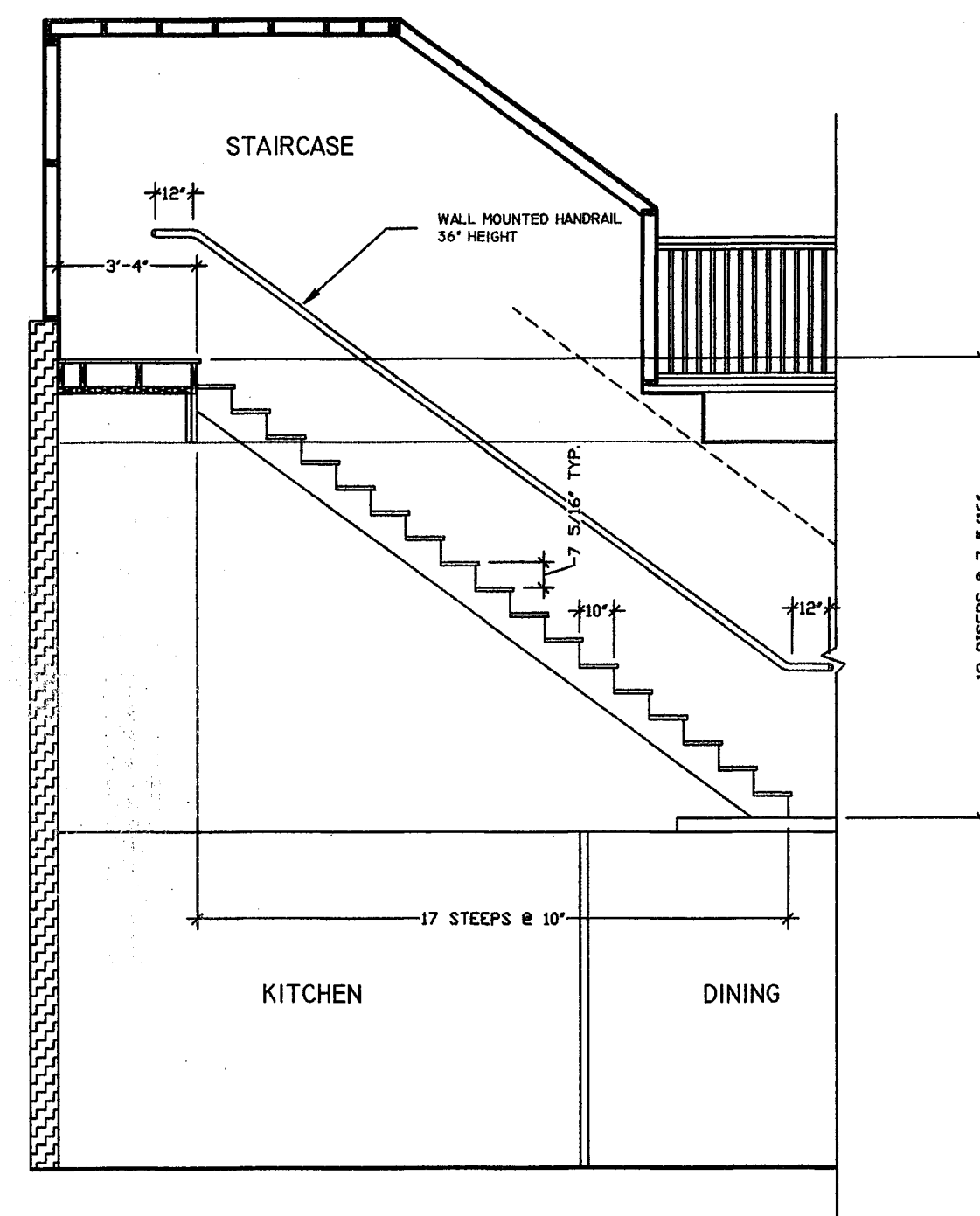
SHEET
5 of 10

FOUNDATION & FLOOR FRAMING PLAN



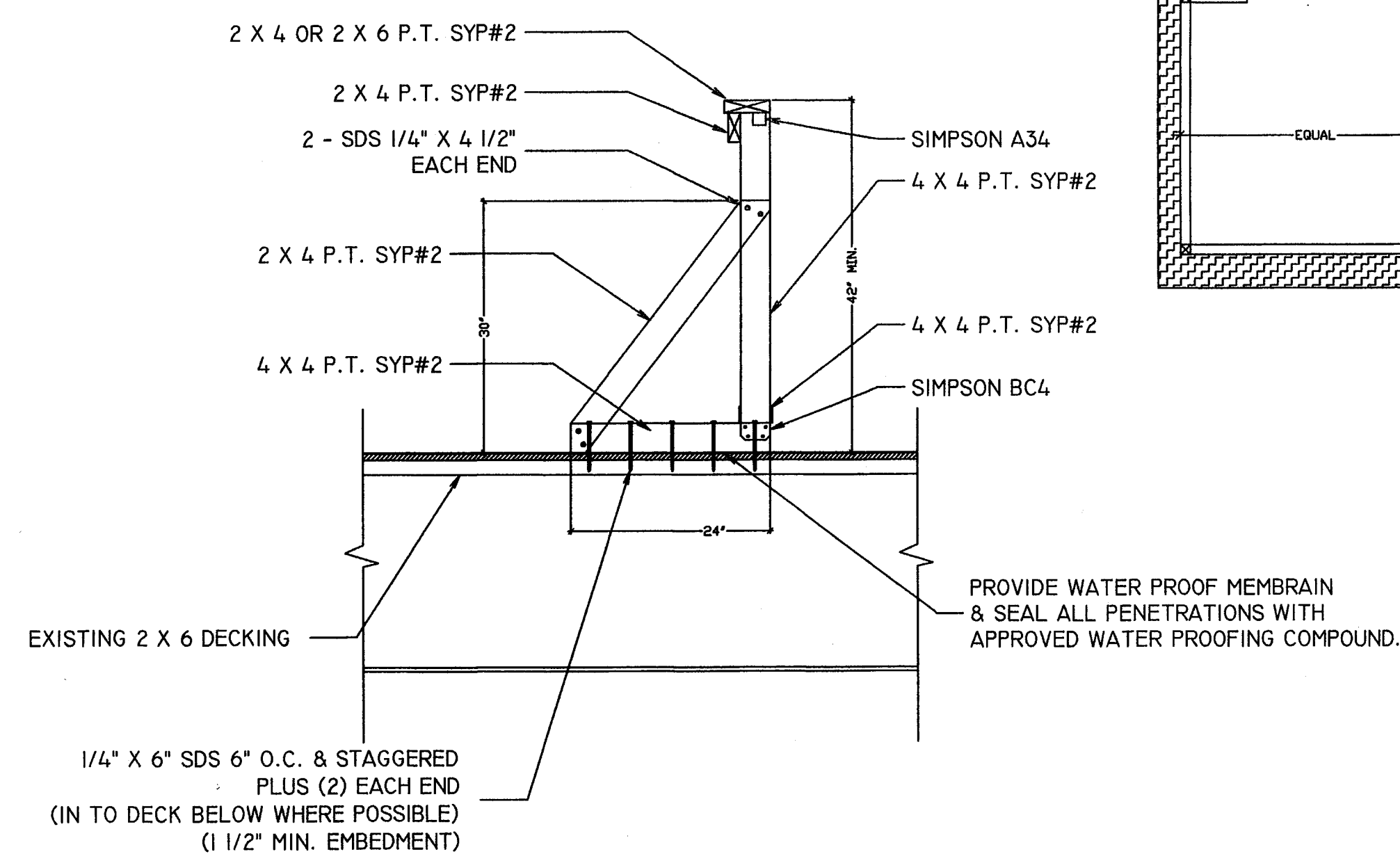
BUILDING SECTION 1 - 1

SCALE: 1/4" = 1'-0"



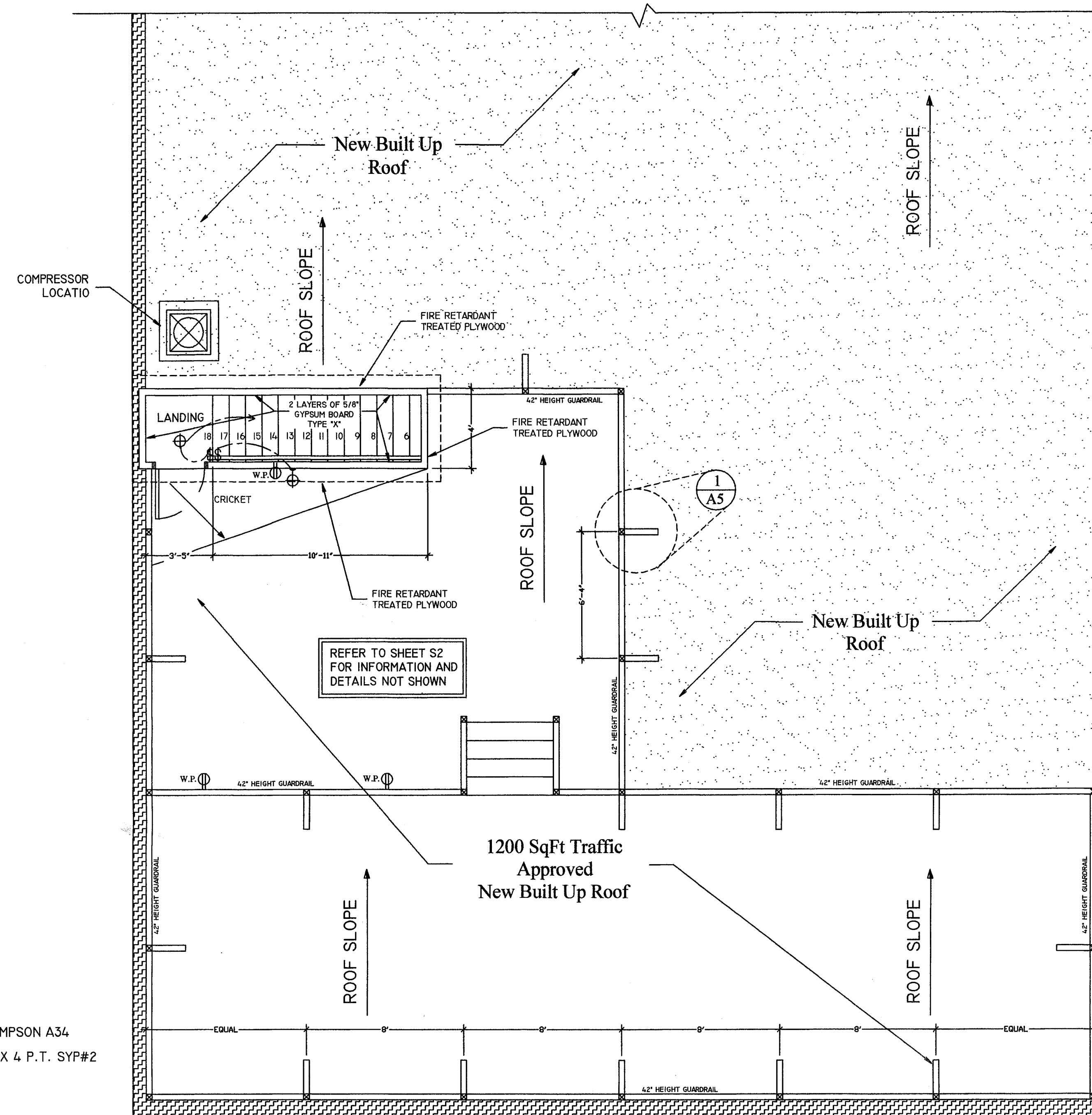
BUILDING SECTION 2 - 2

SCALE: 1/4" = 1'-0"



GARD RAIL CONSTRUCTION

SCALE: N.T.S.



ROOF DECK PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

TO THE BEST OF THE ENGINEERS KNOWLEDGE AND BELIEF, THESE STRUCTURAL PLANS & SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING 2010 RESIDENTIAL R301 FOR 145 MPH WIND, 3 SEC. GUST EXPOSURE B, IMPORTANCE FACTOR = 1, ENCLOSED, BUILDING CATEGORY II.

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTOR'S USE OR, ALL PROPERTY MARKERS SHALL BE SPOSED AND A STRING STRETCHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

PRIOR TO START CONSTRUCTION G. C. SHALL VERIFY W/ TRUSS MANUFACT AND STRUCTURAL ENGINEER THE LOCATION OF ALL INTERIOR LOAD BEARING WALLS TO ADJUST SLAB AS NECESSARY.

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VERIFY ALL DIMENSIONS AT JOB SITE BEFORE STARTING CONSTRUCTION IN ORDER TO AVOID PROBLEMS DURING CONSTRUCTION.

ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETED, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTIONS.

SEE SHEET S1 FOR TERMITE TREATMENT

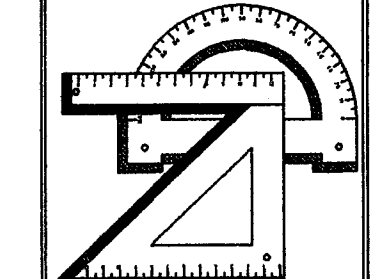
ALL TECH STRUCTURAL ENGINEERING, INC. ENGINEER KELLY E. LYONS P. E. 2121 BEARS AVE. TAMPA, FLORIDA 33618 PHONE: (813) 969-2099 P.E. # 56191 BL # EB9333

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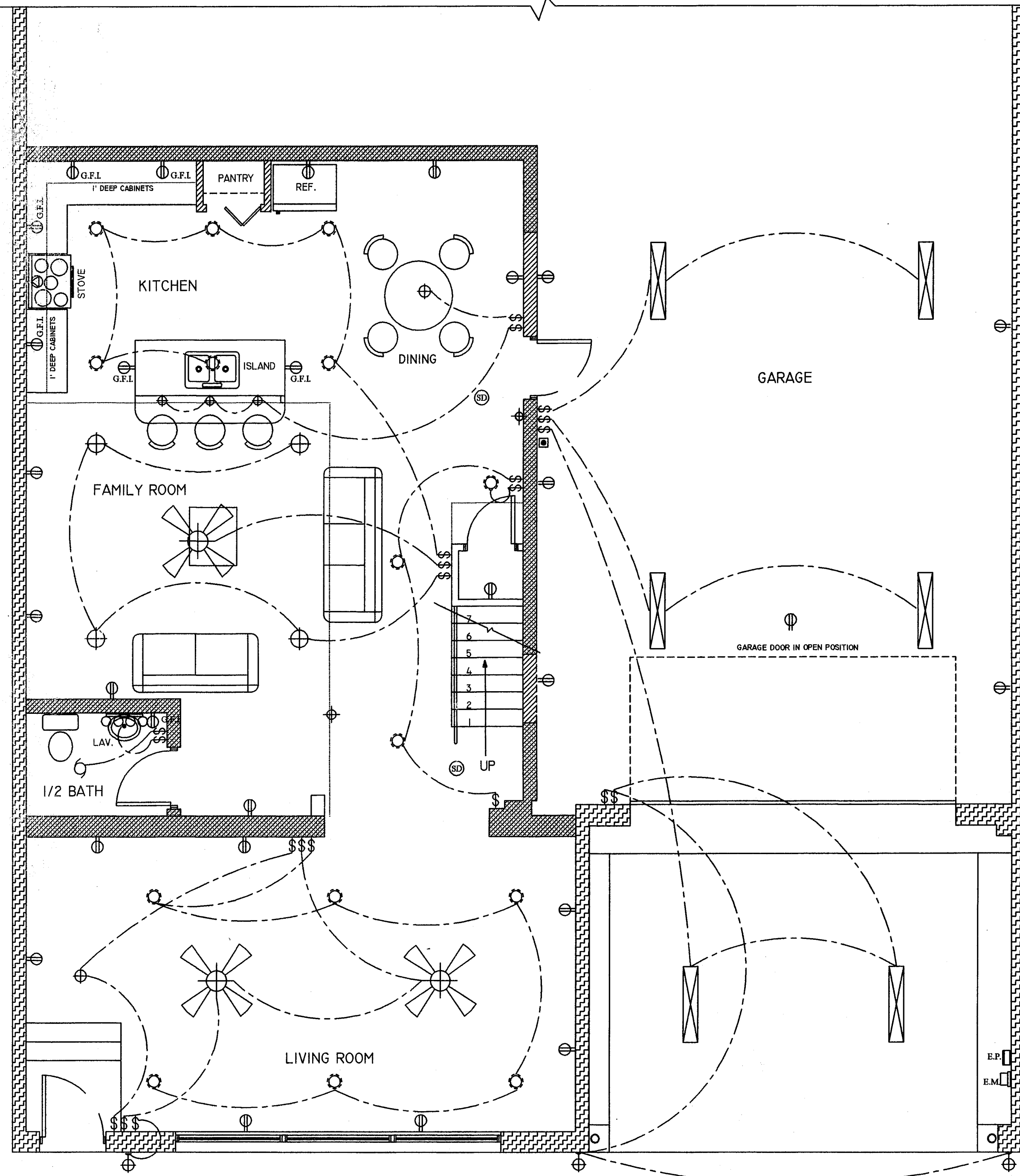
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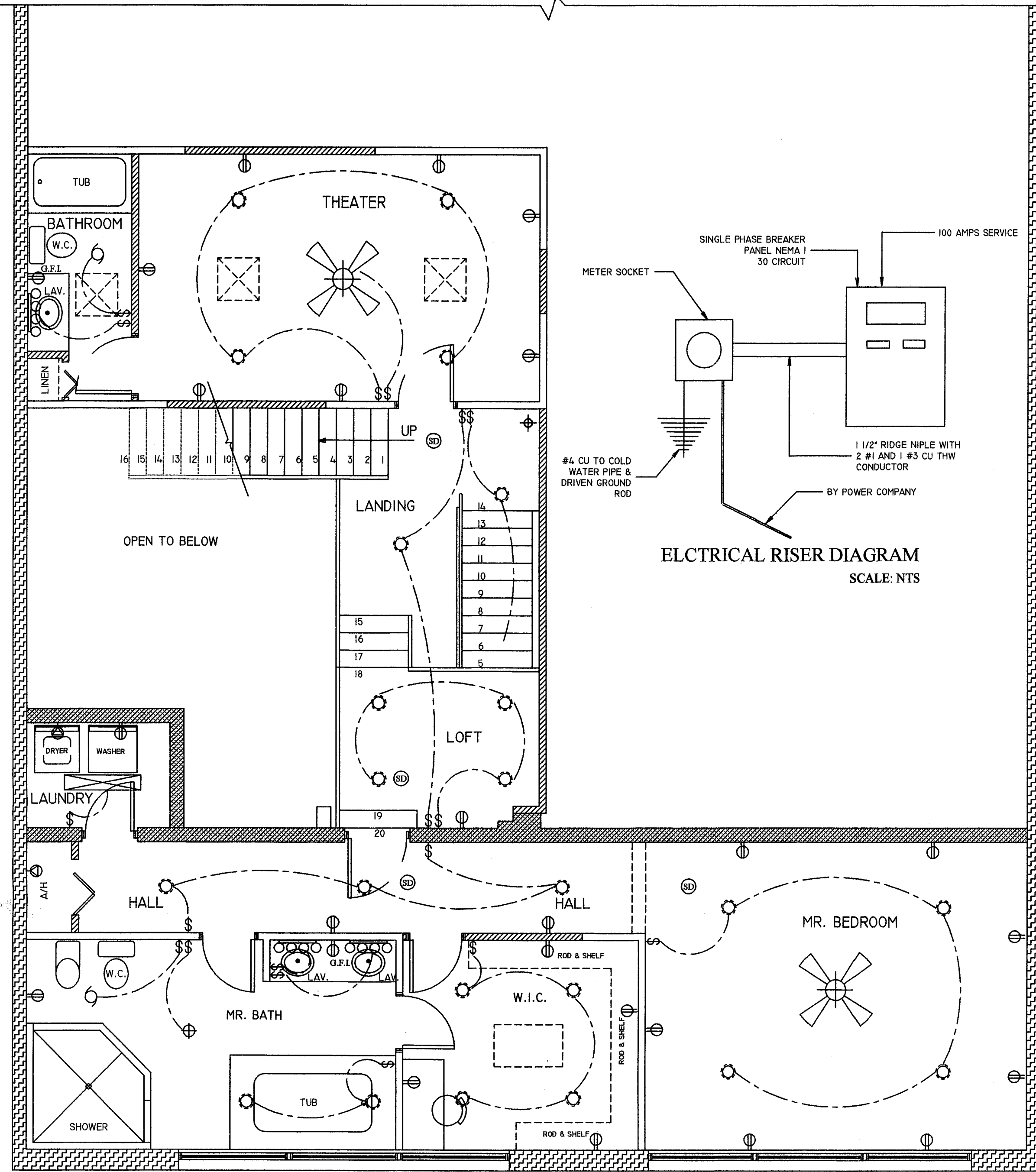


SHEET
6 of 10 **A6**

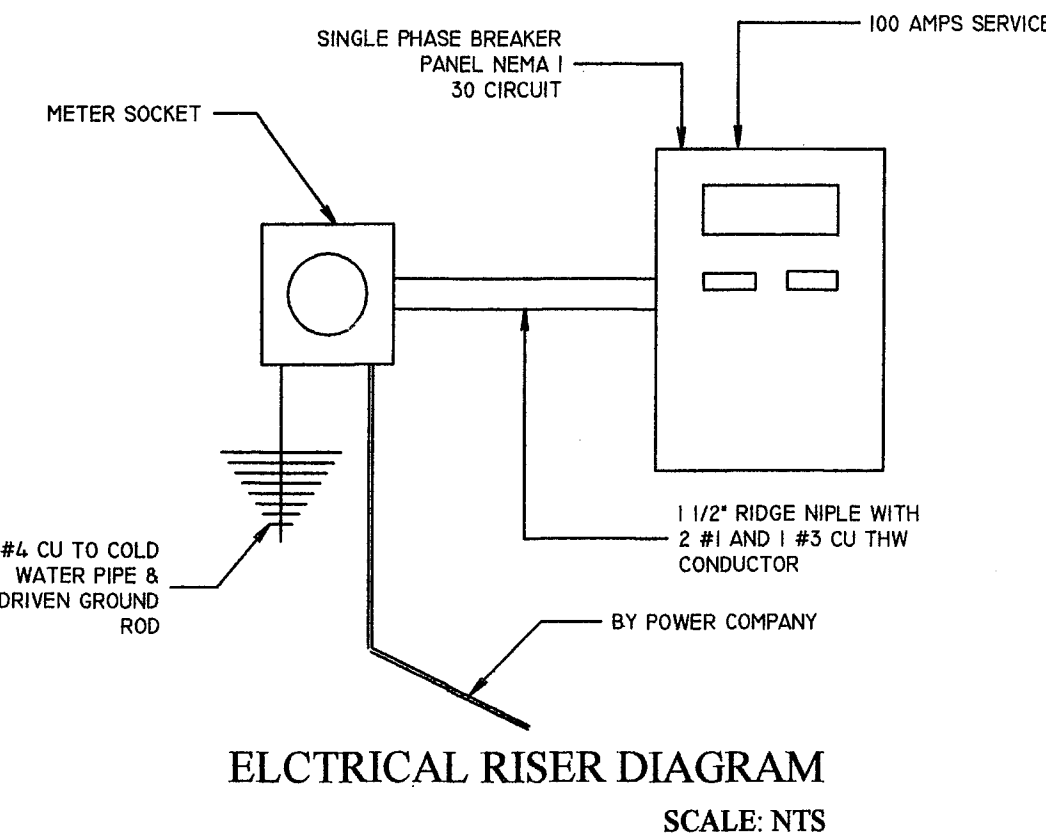
**ROOF DECK
PLAN &
SECTIONS**



FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETED, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTIONS.

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ELECTRICAL KEY

- ⊕ DUPLEX CONVENIENCE OUTLET
- ⊕ DUPLEX OUTLET ABOVE COUNTER
- ⊕ A.F. ARC-FAULT OUTLET
- ⊕ W.P. WEATHERPROOF DUPLEX OUTLET
- ⊕ G.F.I. GROUND FAULT INTERRUPTER DUPLEX OUTLET
- ⊕ G.F.I. / W.P. GROUND FAULT & WEATHERPROOF INT. DUPLEX OUTLET
- ⊕ HALF SWITCH DUPLEX OUTLET
- ⊕ SPECIAL PURPOSE OUTLET
- ⊕ DUPLEX OUTLET IN FLOOR
- ⊕ 220 VOLT OUTLET
- ⊕ WALL SWITCH
- ⊕ THREE-WAY SWITCH
- ⊕ FOUR-WAY SWITCH
- ⊕ RHEOSTAT SWITCH
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE

- ⊕ WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ RECESSED INCANDESCENT LIGHT FIXTURE
- ⊕ LIGHT FIXTURE WITH PULL CHAIN
- ⊕ TRACK LIGHT
- ⊕ FLUORESCENT LIGHT FIXTURE (1 UNIT)
- ⊕ FLUORESCENT LIGHT FIXTURE (2 UNITS)
- ⊕ EXHAUST FAN
- ⊕ EXHAUST FAN/LIGHT COMBINATION
- ⊕ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕ CHIMES (OPTIONAL)
- ⊕ PUSHBUTTON SWITCH (OPTIONAL)
- ⊕ SMOKE DETECTOR/CO₂ COMBINATION
- ⊕ DUPLEX OUTLET ON THE FLOOR

- ⊕ TELEPHONE (OPTIONAL)
- ⊕ TELEVISION (OPTIONAL)
- ⊕ THERMOSTAT
- ⊕ ELECTRIC METER
- ⊕ ELECTRIC PANEL
- ⊕ DISCONNECT SWITCH
- ⊕ SPEAKER (OPTIONAL)
- ⊕ ROUGH-IN FOR OPT. CEILING FAN
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ W/ ROUGH-IN FOR OPT. CEILING FAN
- ⊕ FLOOD LIGHT
- ⊕ DOOR BELL

- ⊕ THEATRICAL LIGHTS
- ⊕ PUSHBUTTON FOR GARAGE DOOR OPENER
- ⊕ OPT. SPEAKERS
- ⊕ IRRIGATION OUTLET
- ⊕ UNDER COUNTER OUTLET
- ⊕ INTERCOM CONTROL
- ⊕ INTERCOM CONTROL

NOTES

1. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
2. PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
3. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES & RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISH FLOOR:

SWITCHES- 42"
OUTLETS- 12"
TELEPHONE- 14"
TELEVISION- 14"

4. ALL SMOKE DETECTORS SHALL BE WIRED ON (1) CIRCUIT.

5. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO INSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH N.E.C., S.B.C.C.I. - 97, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

PER SECTION 210-12 ARC-FAULT CIRCUIT INTERRUPTER PROTECTION.
ALL 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEVS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

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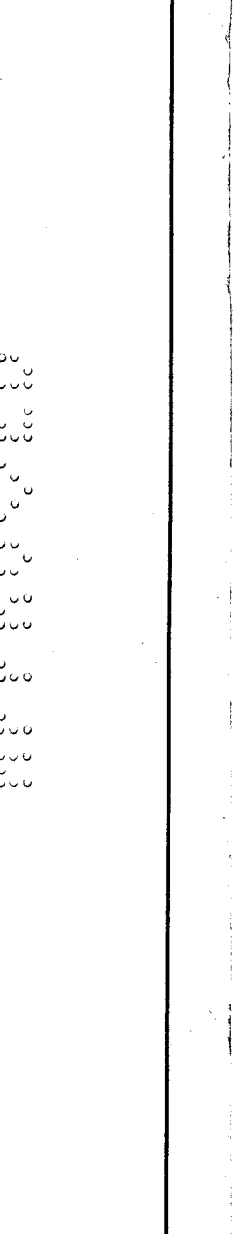
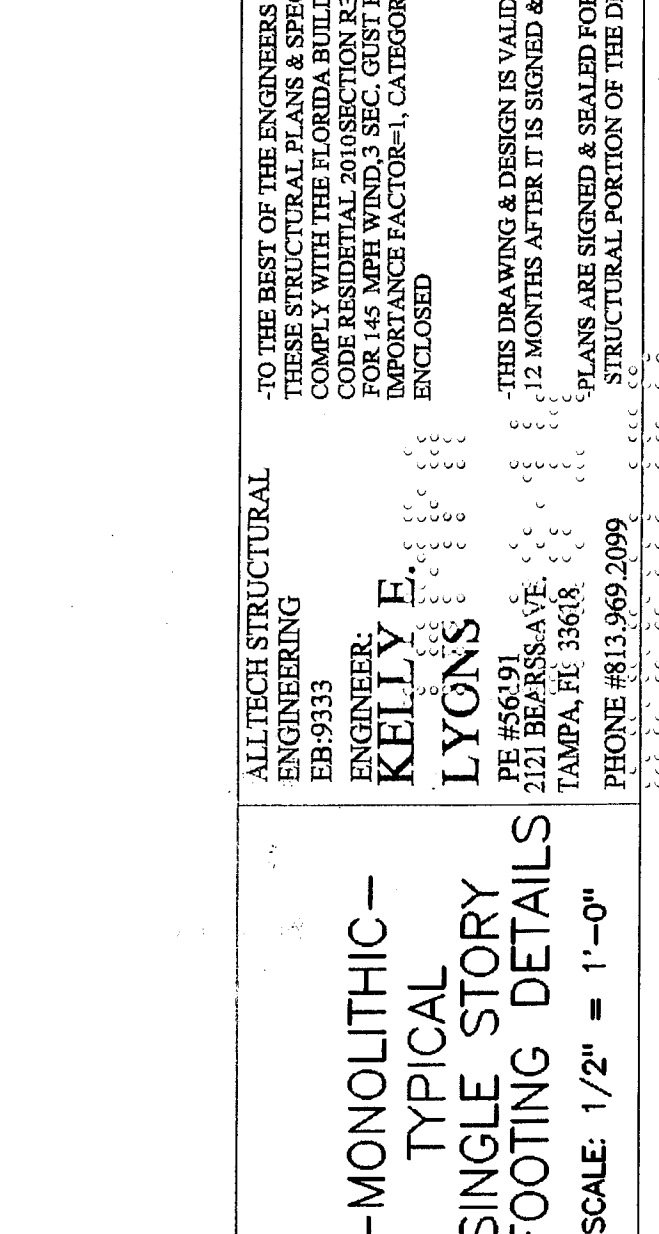
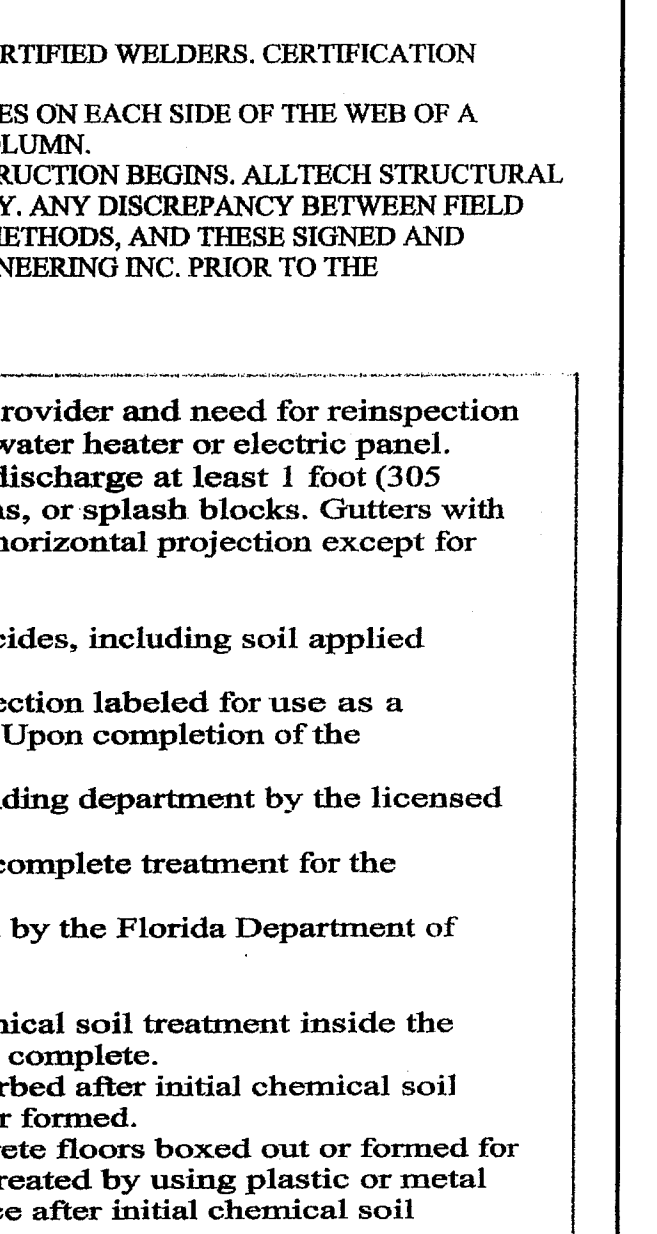
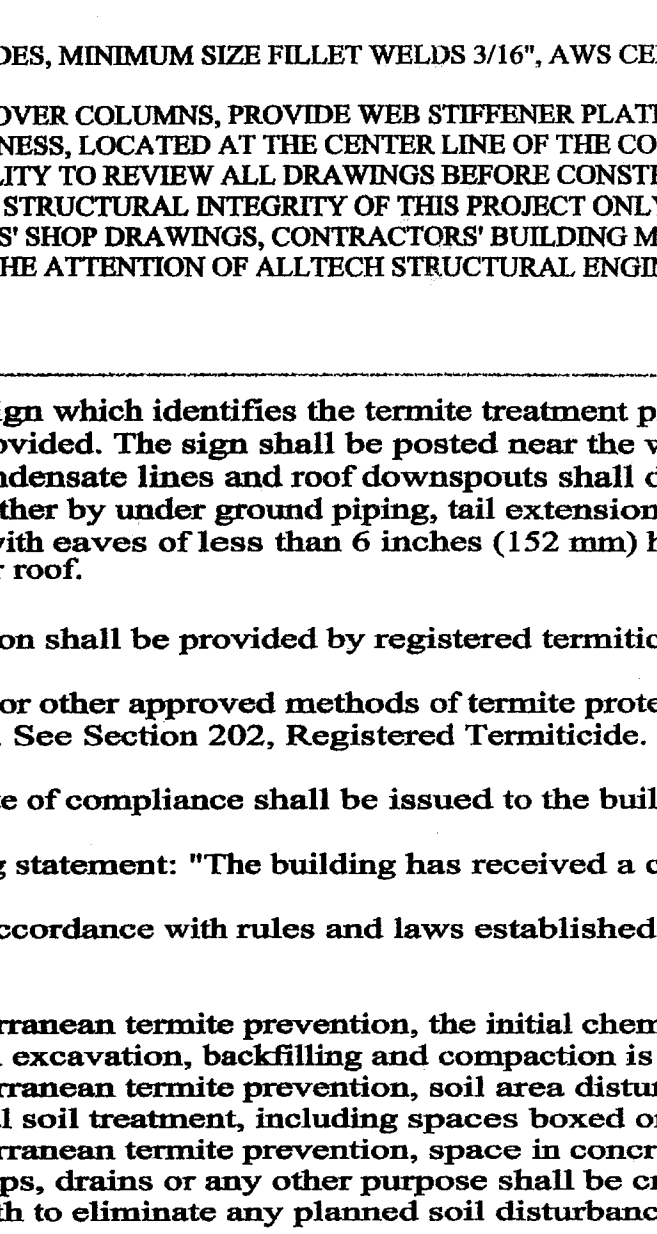
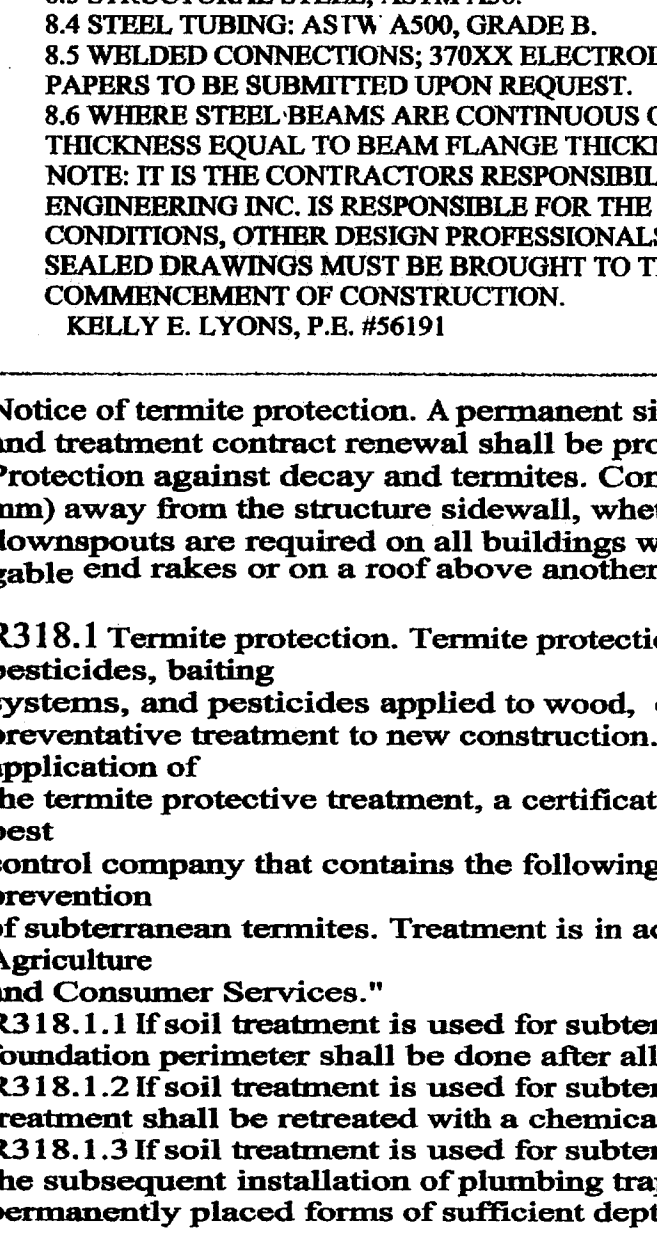
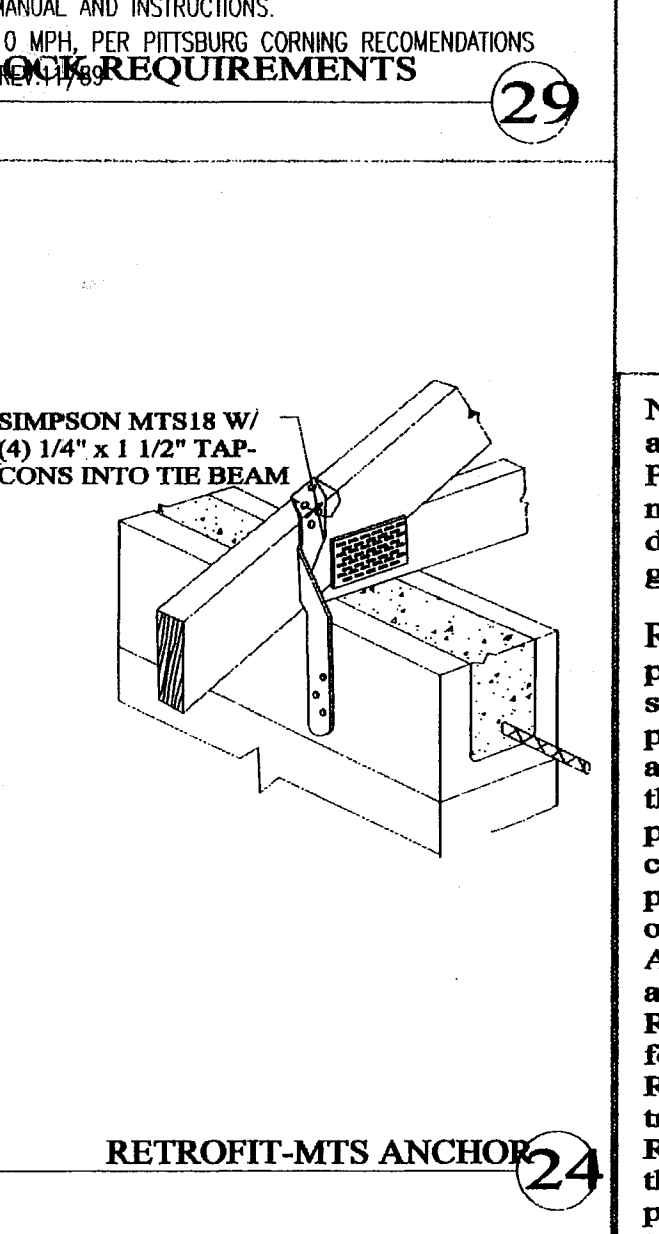
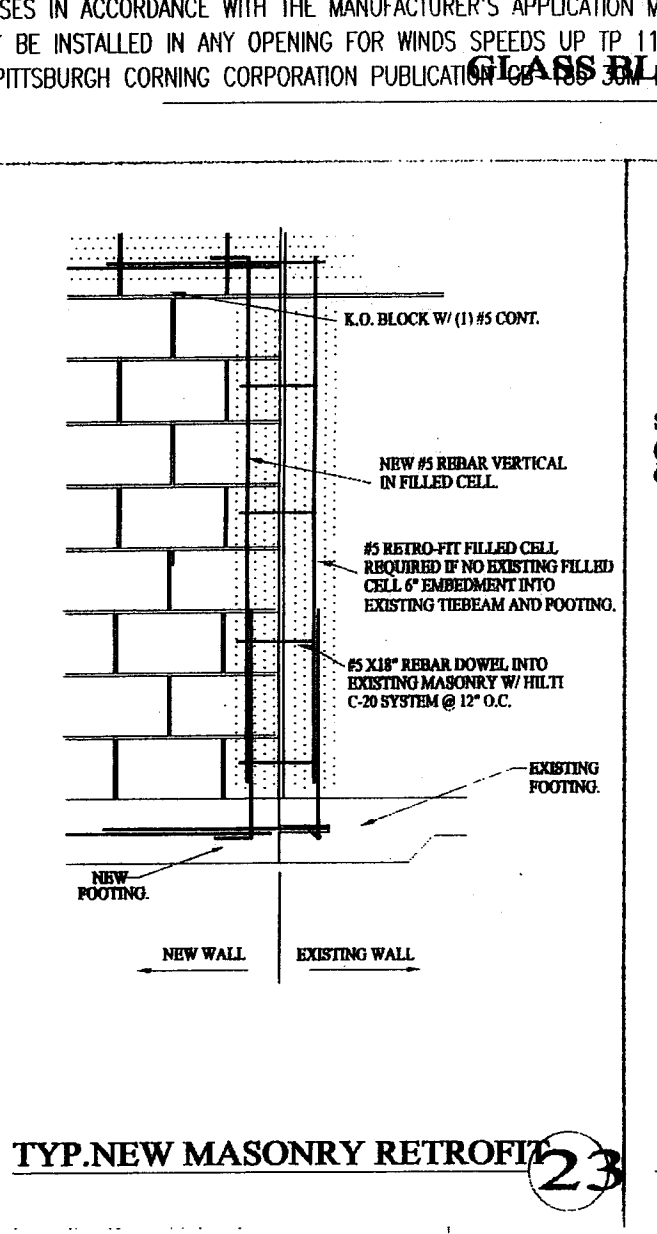
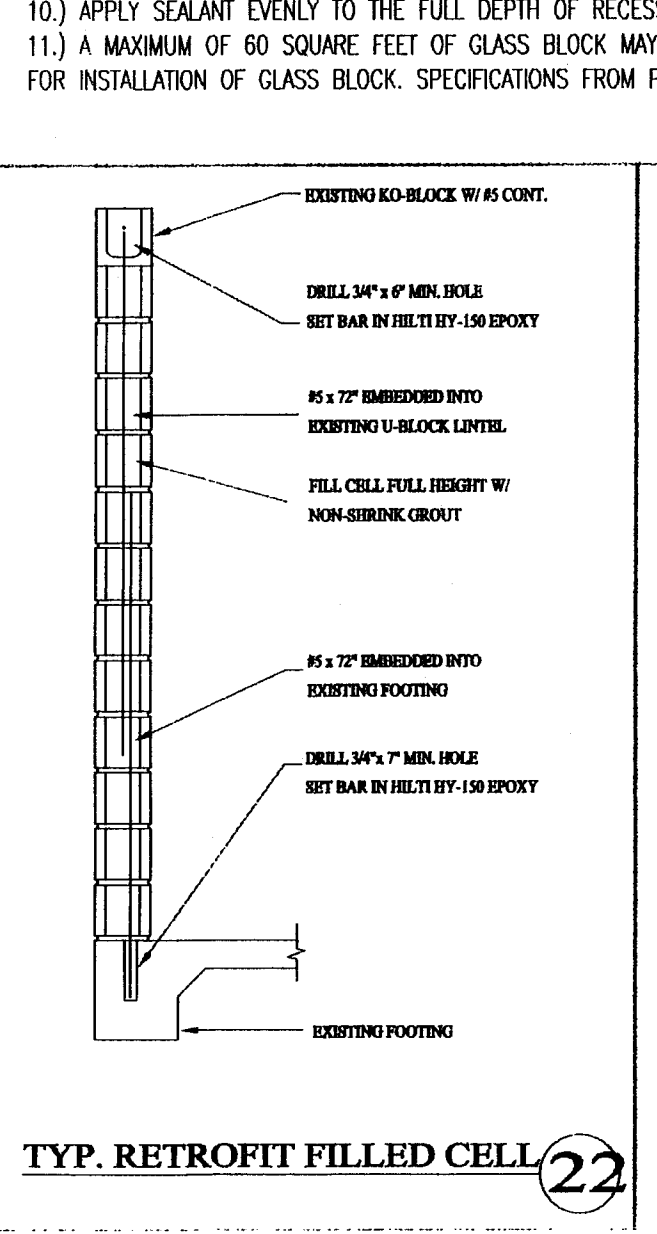
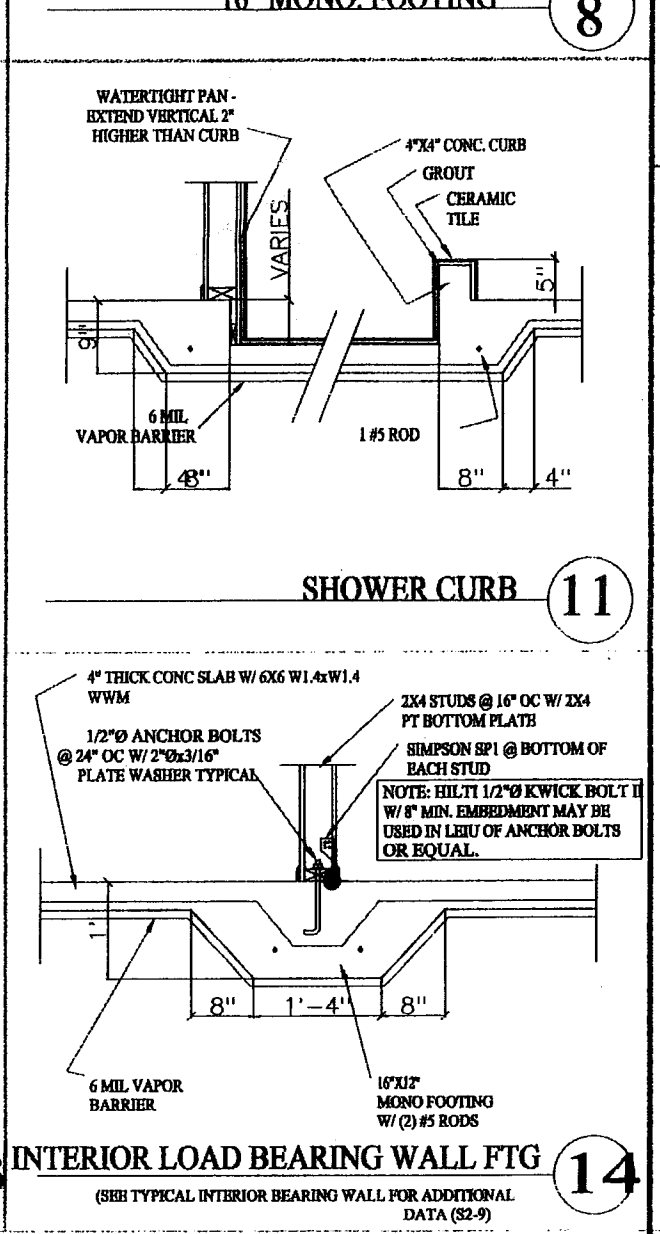
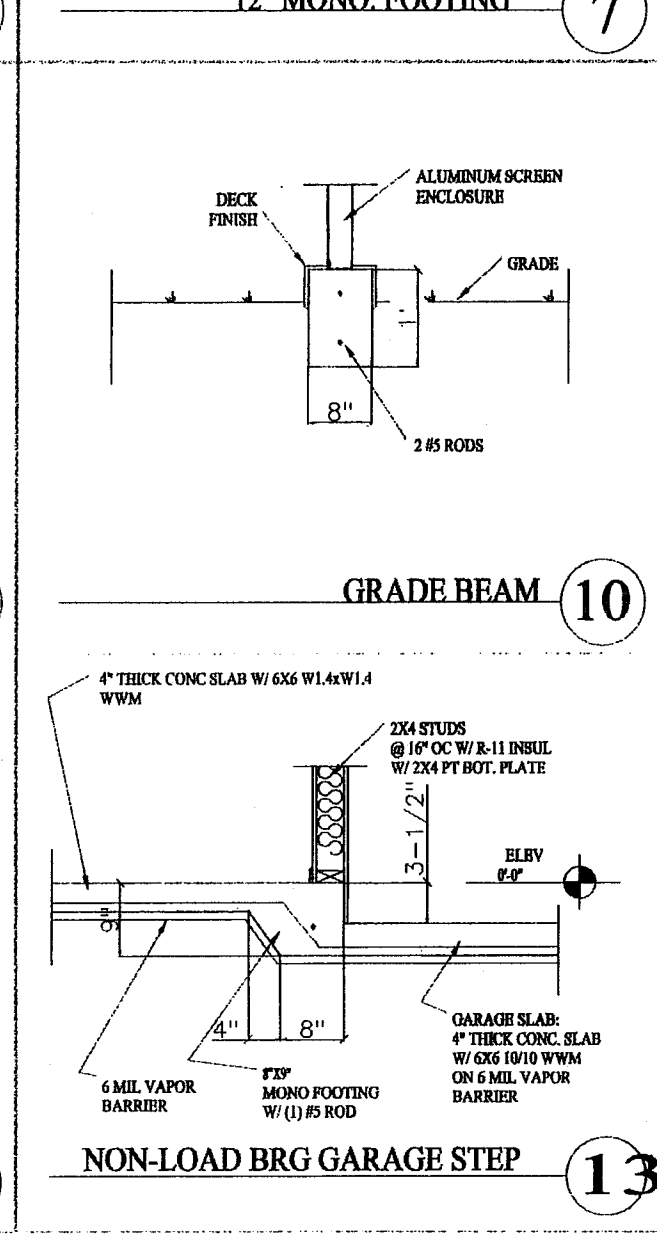
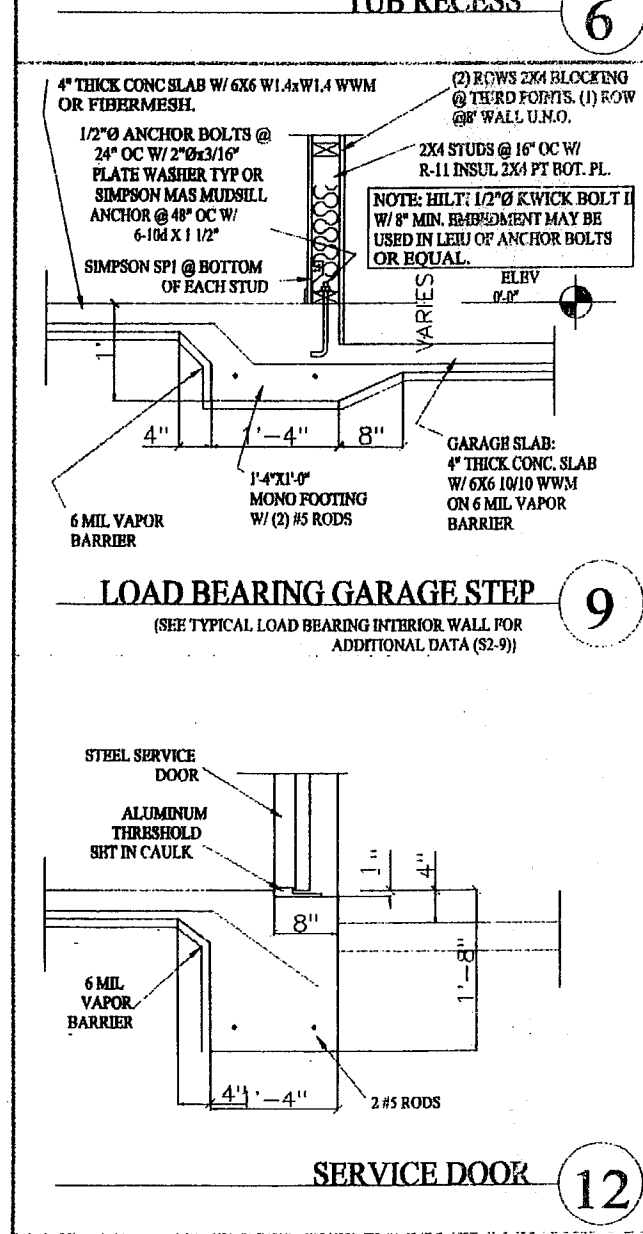
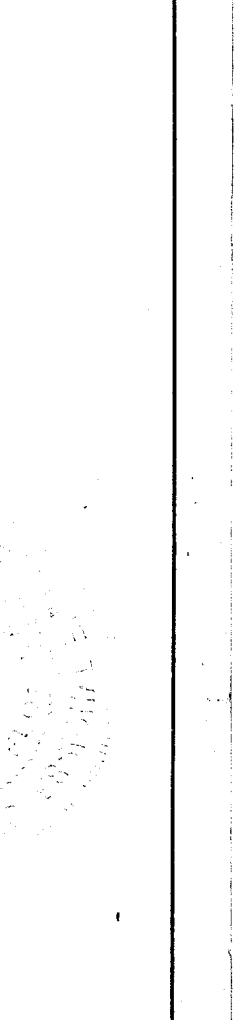
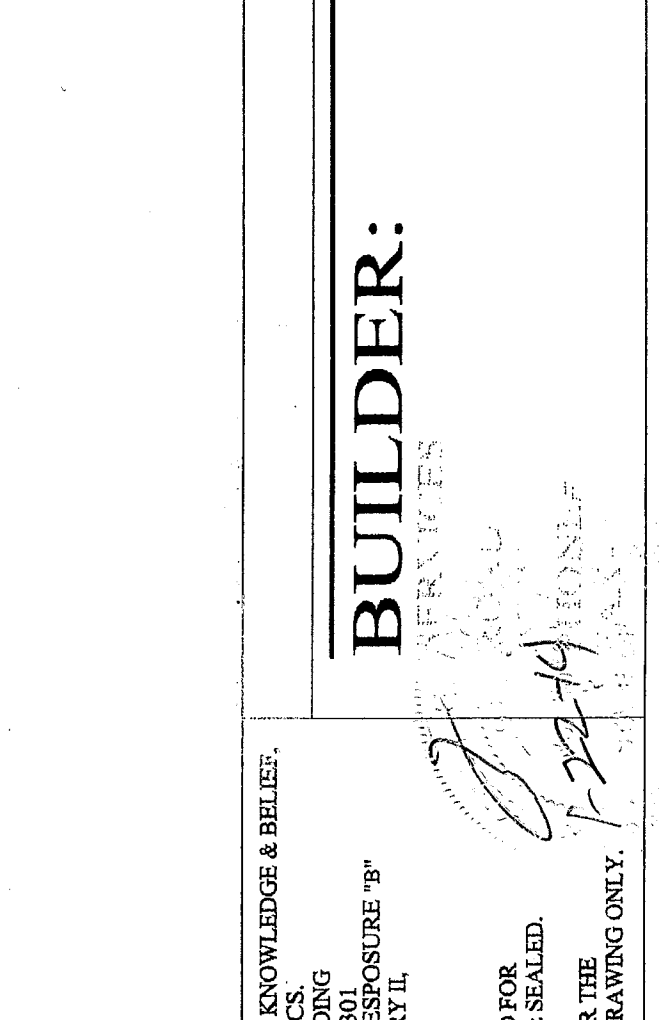
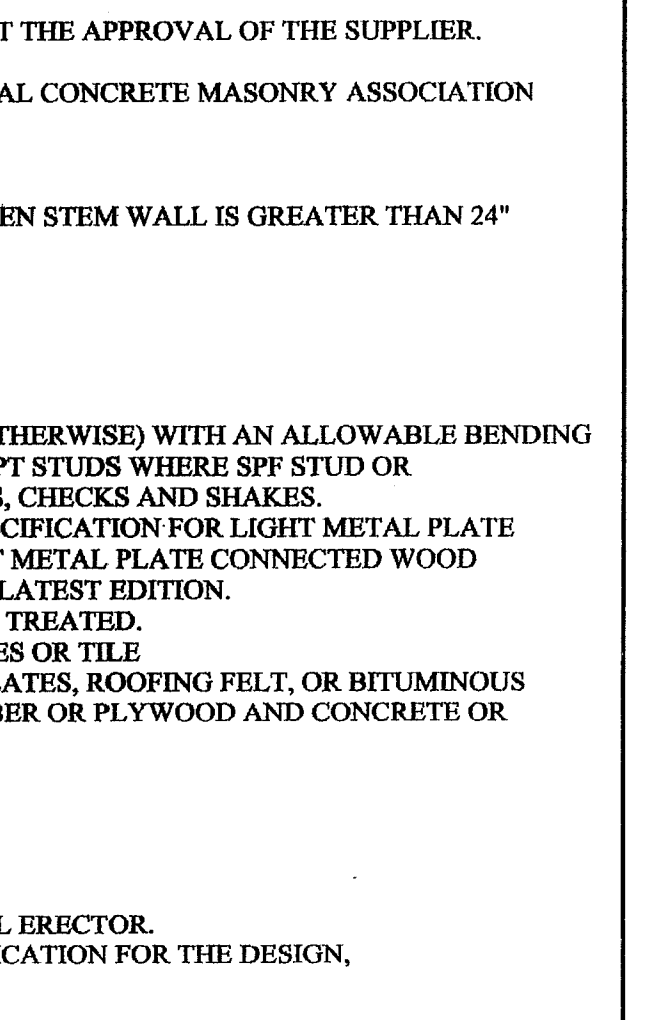
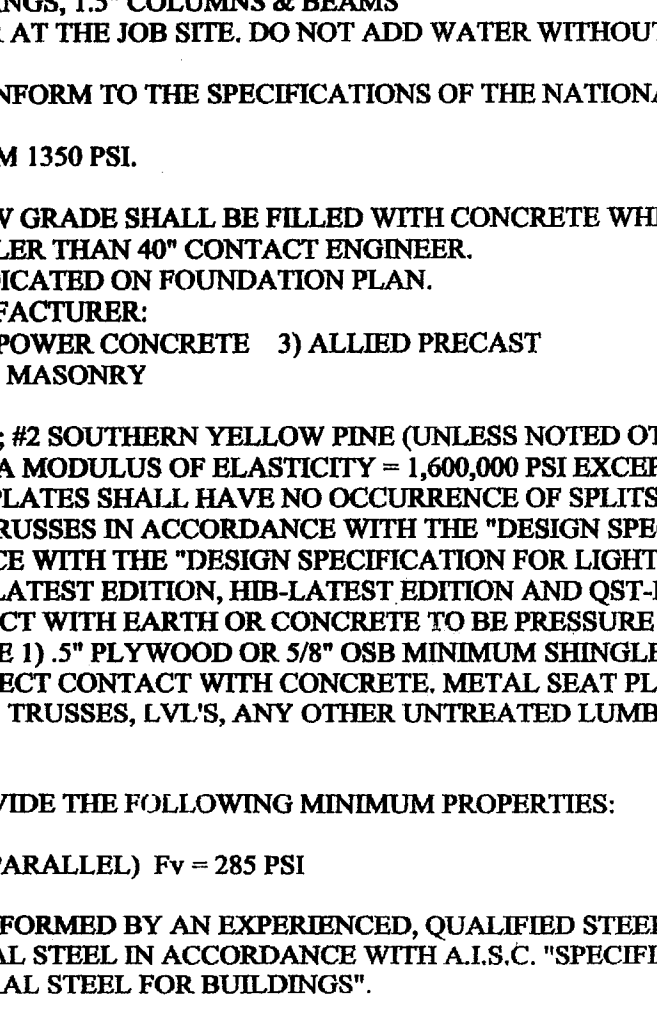
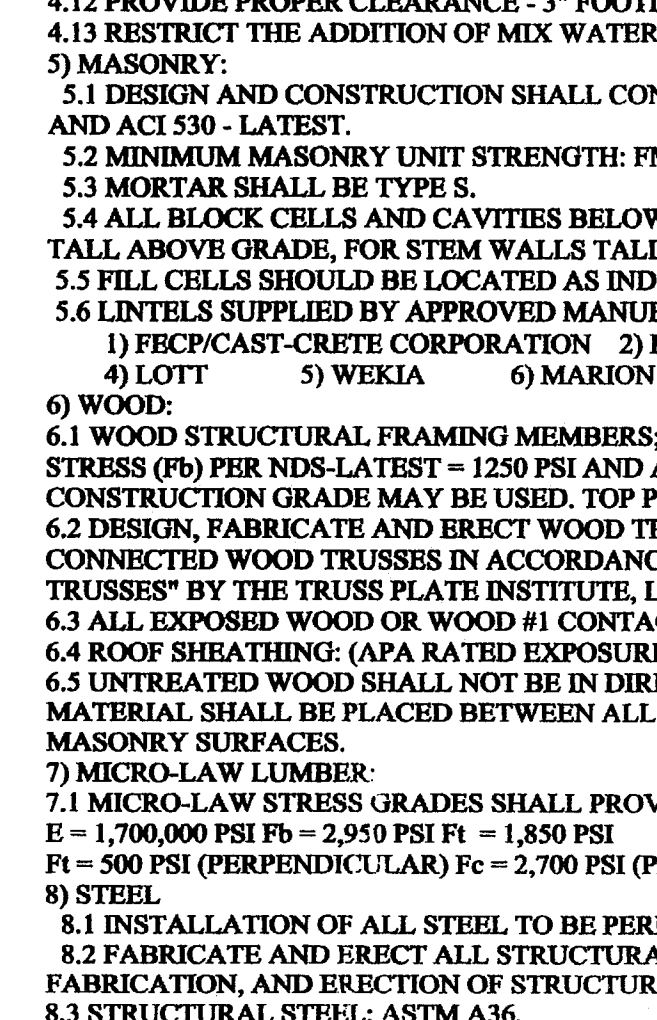
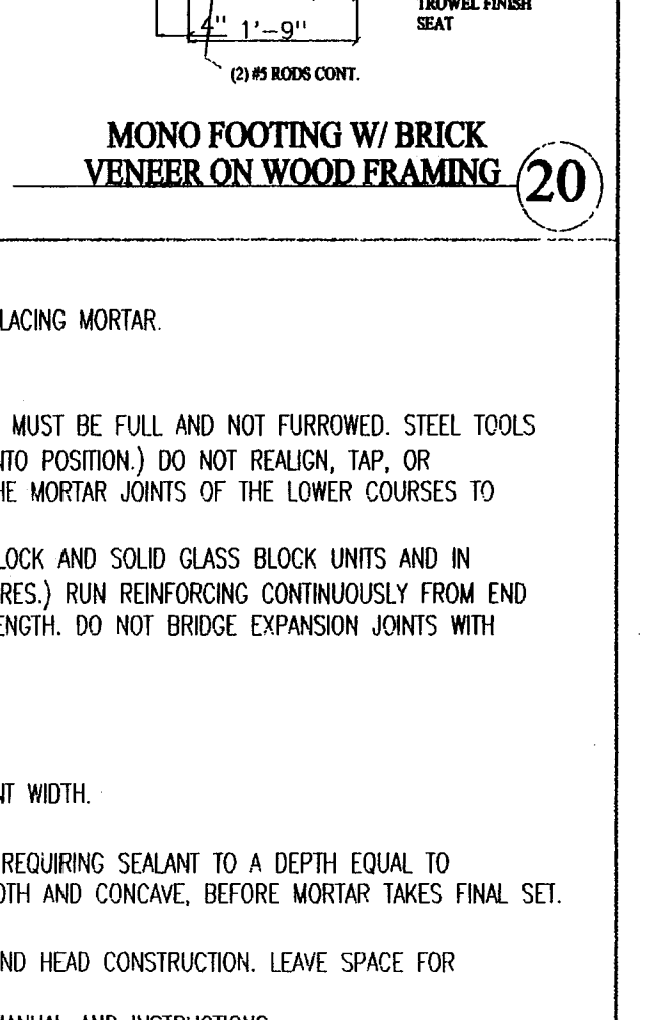
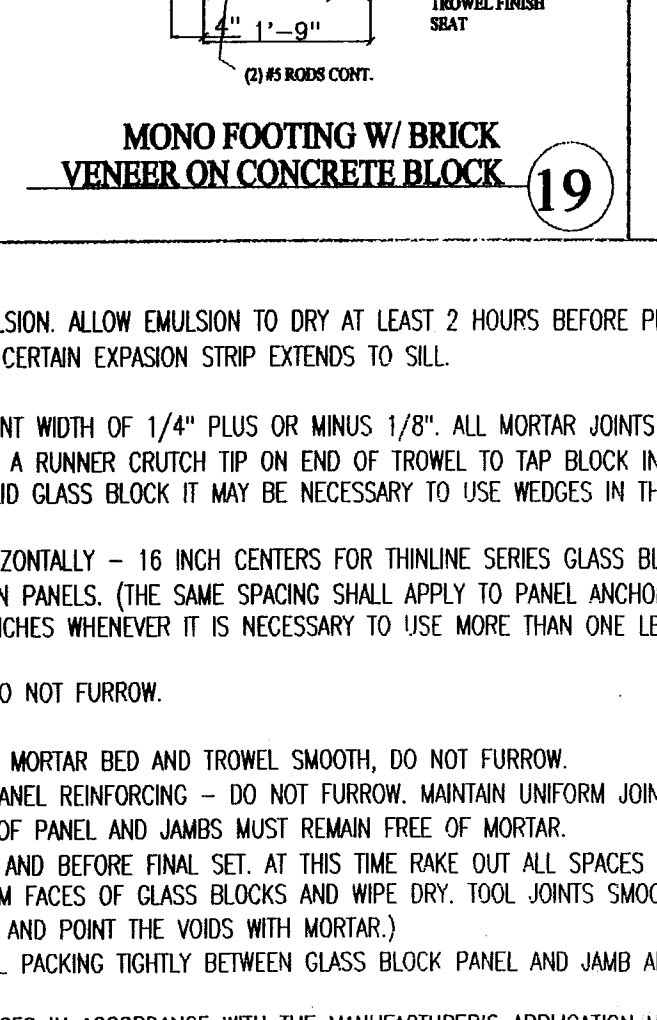
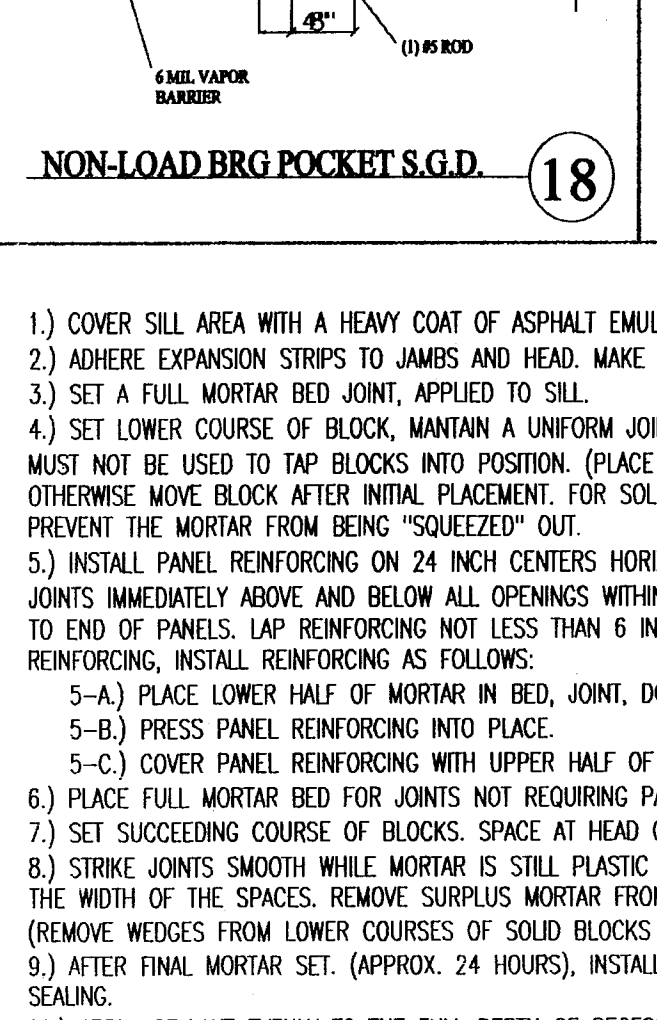
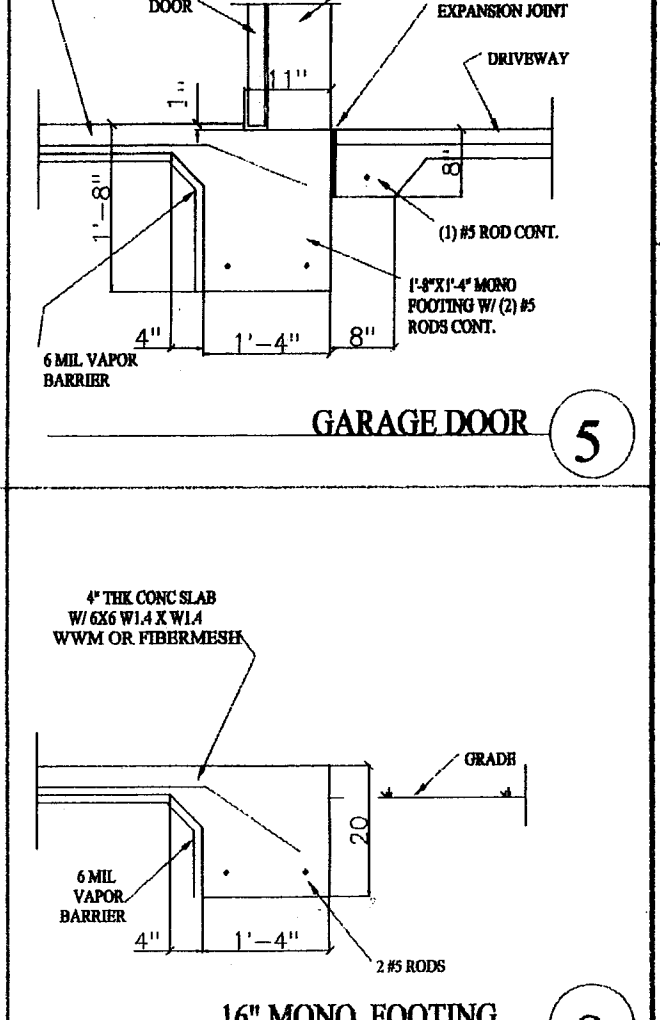
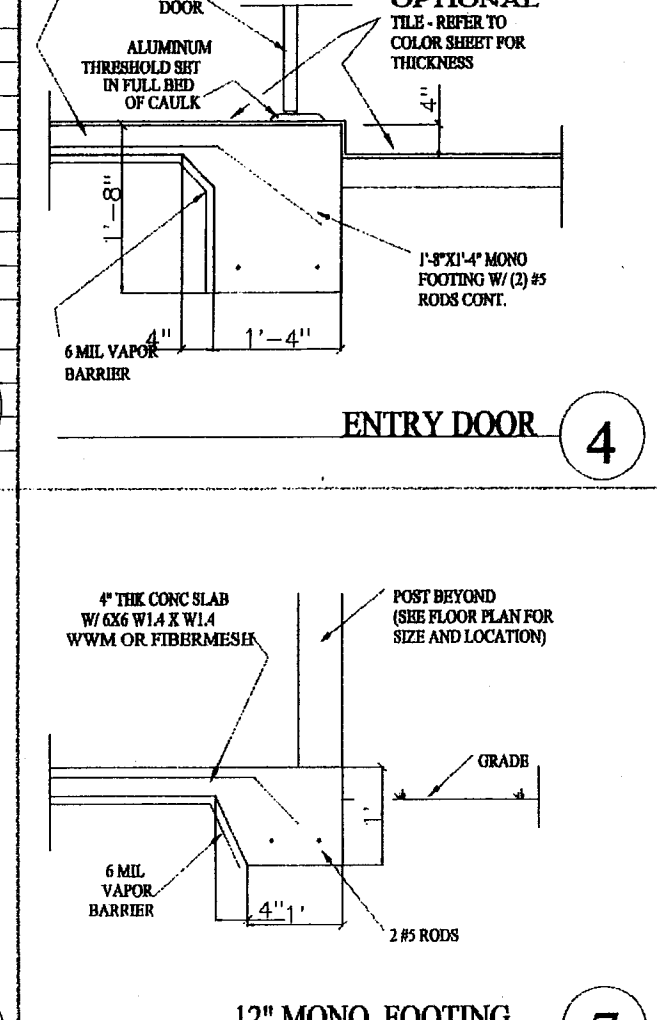
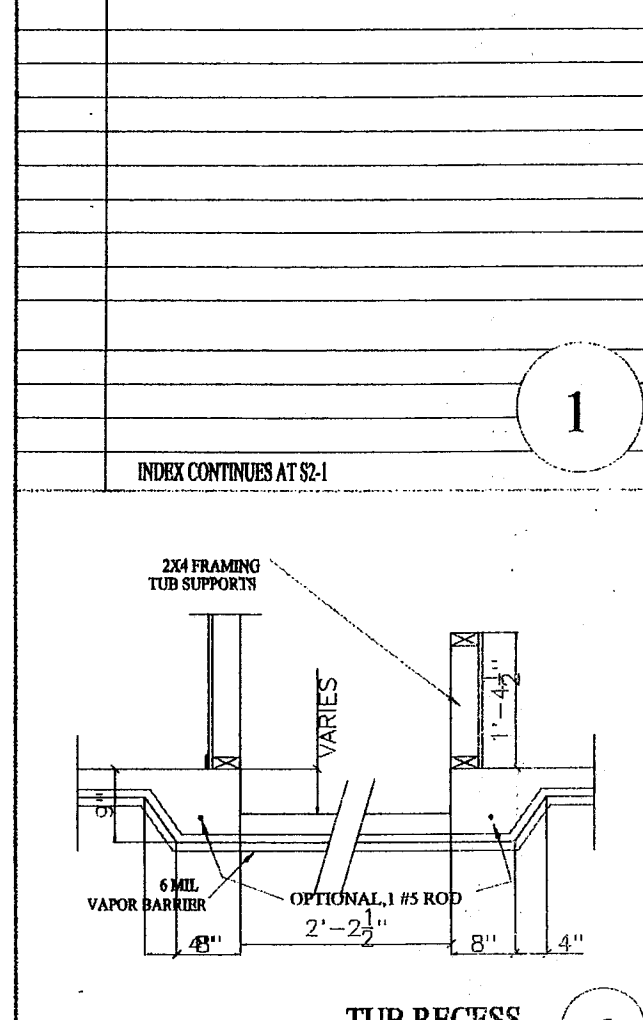
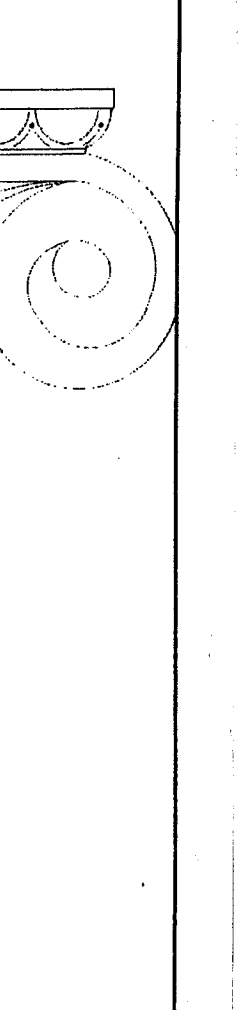
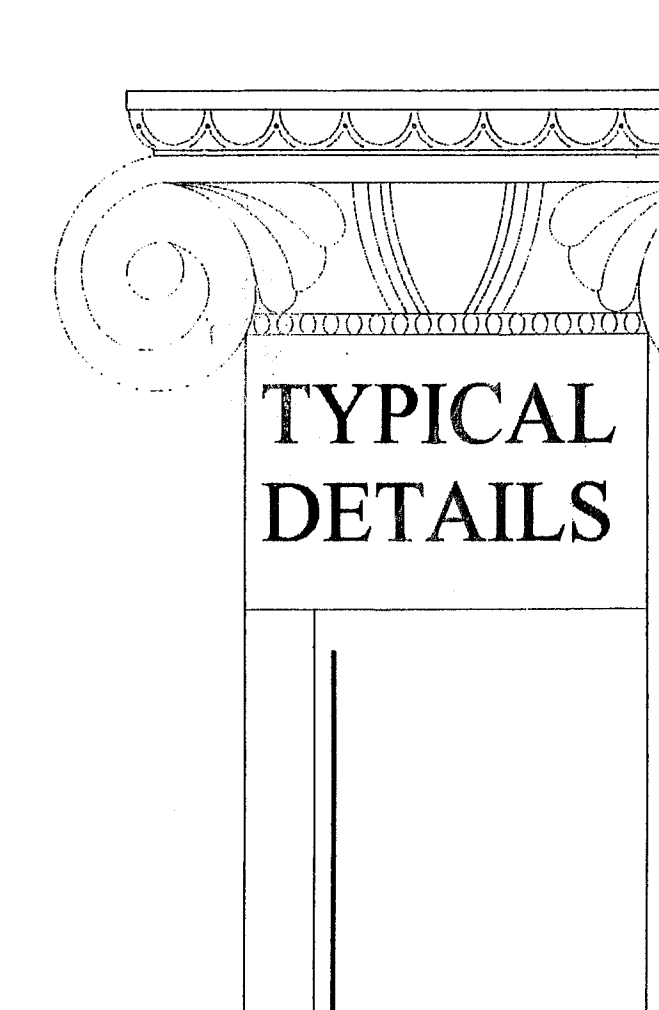
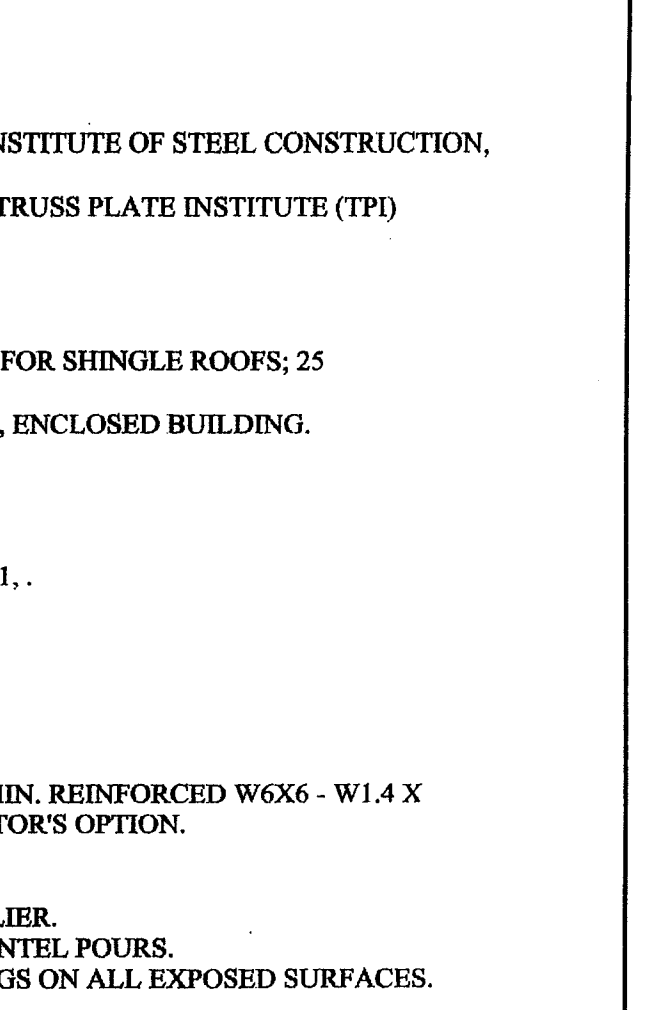
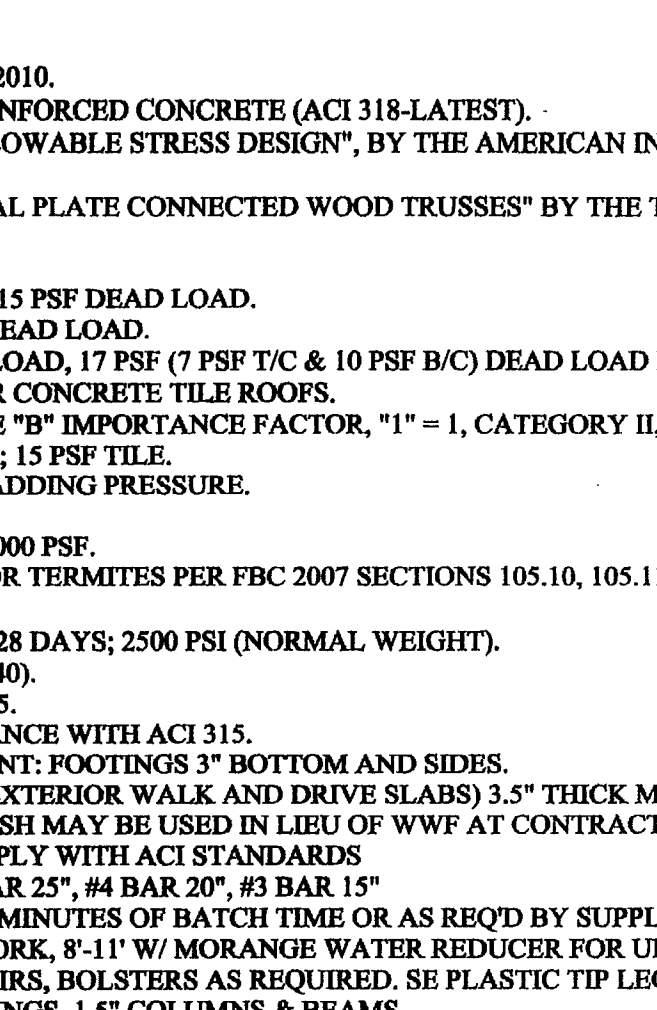
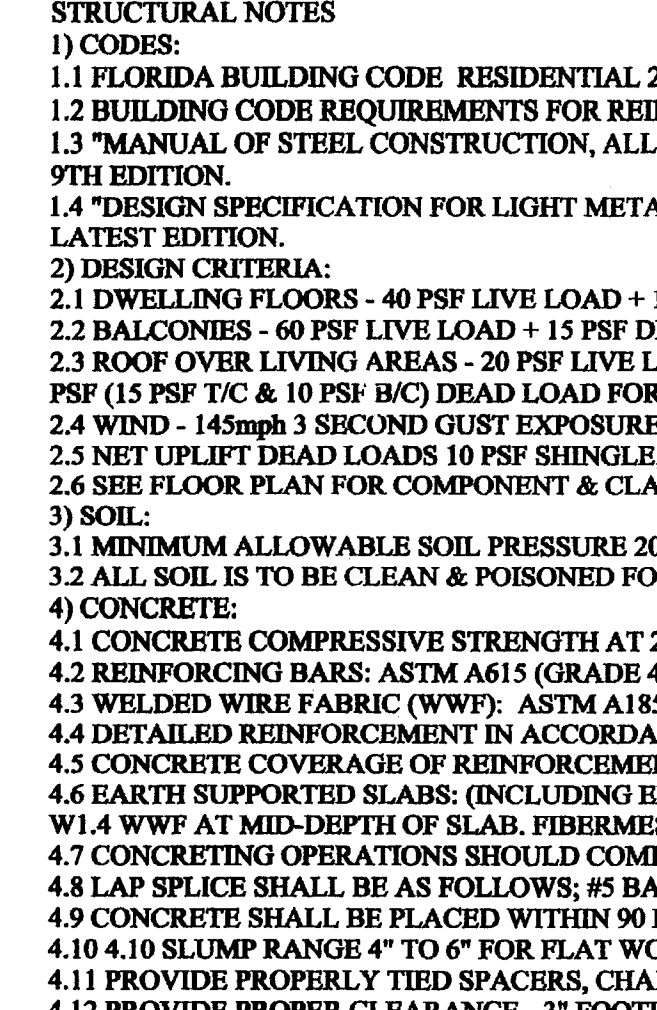
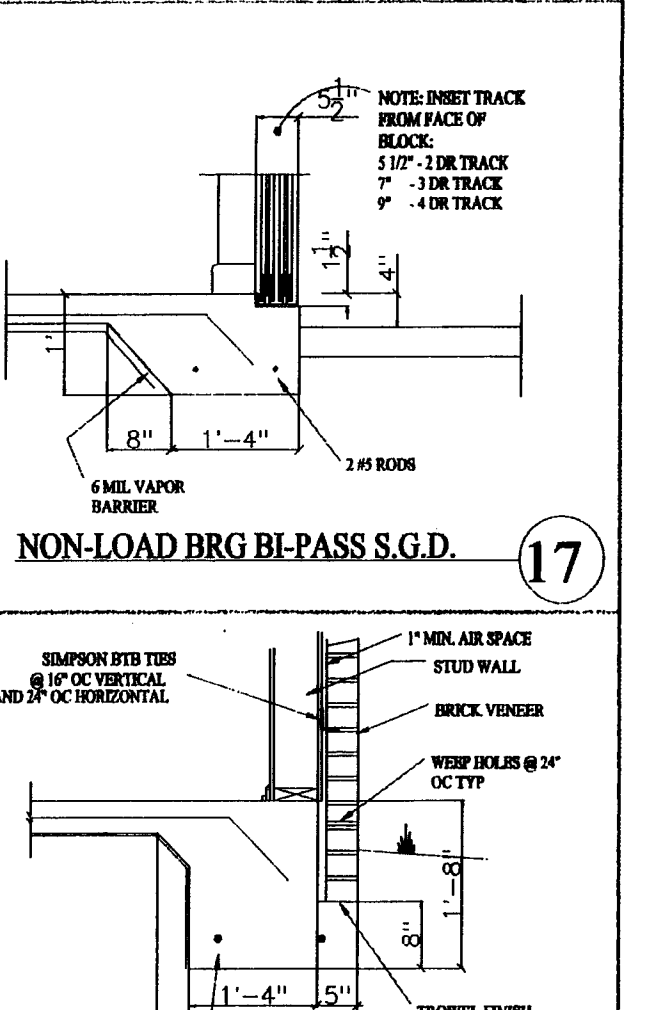
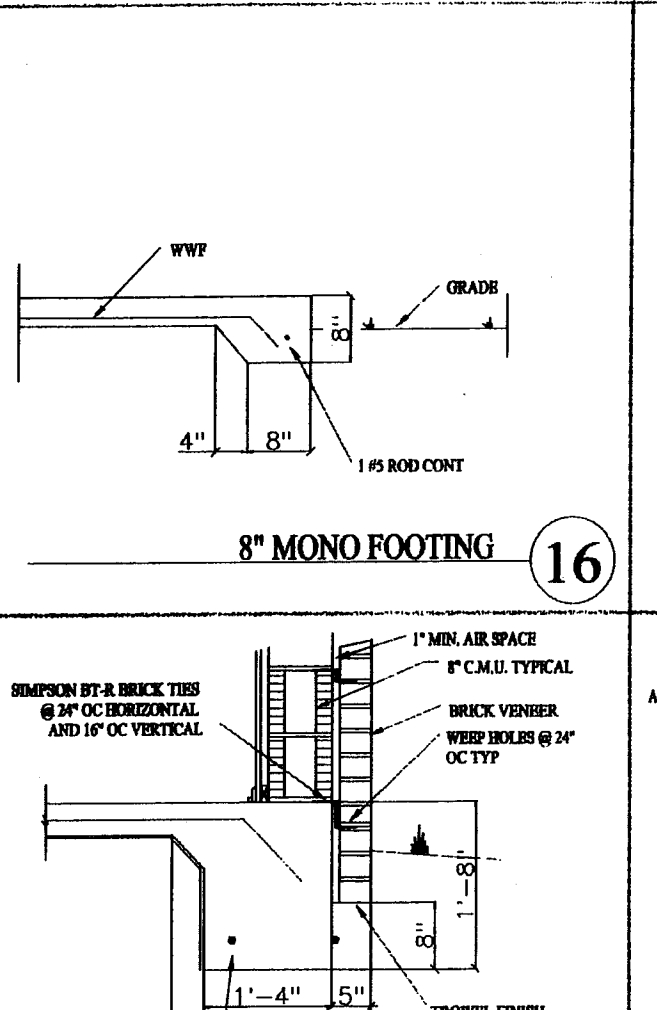
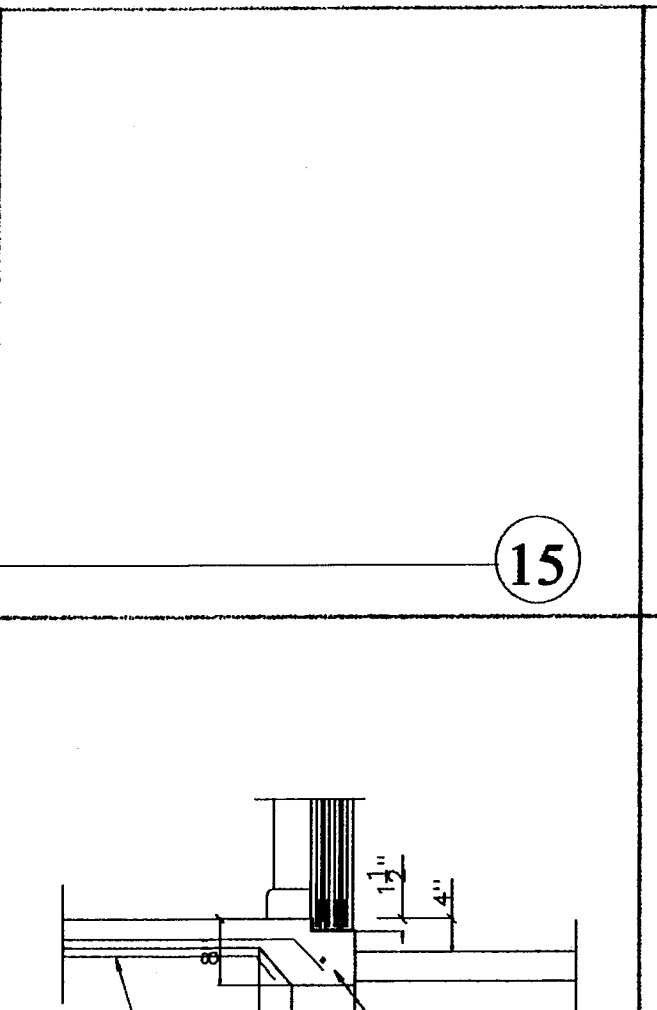
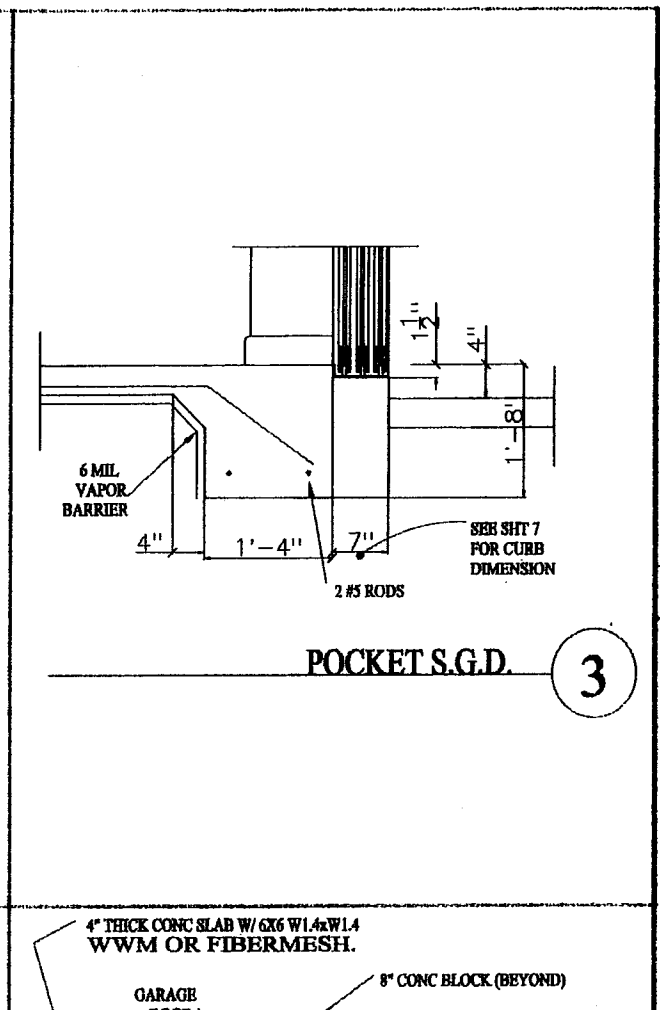
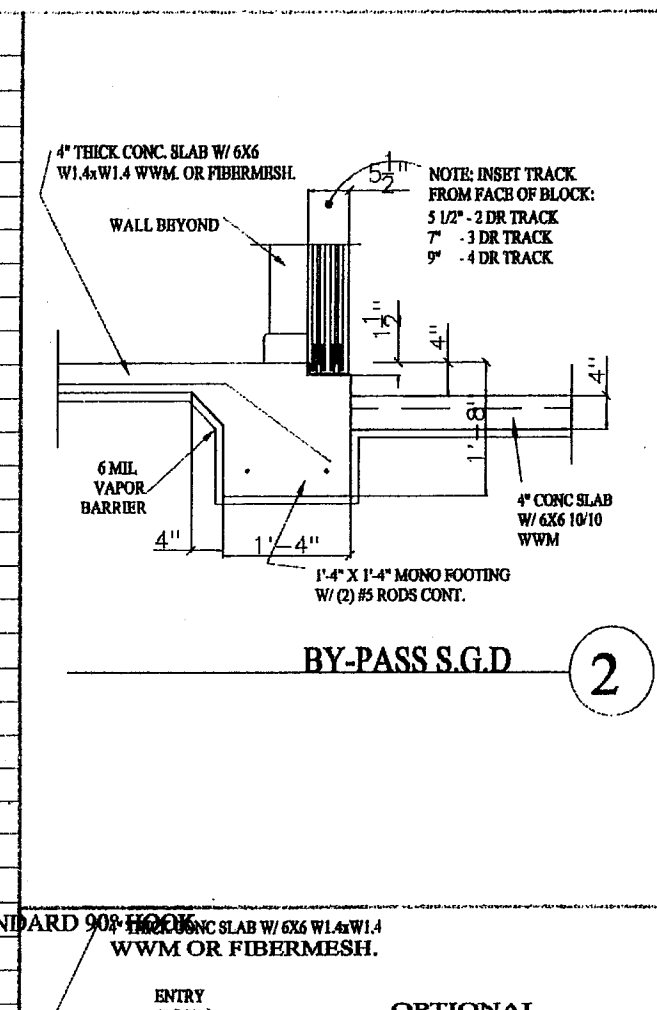
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SHEET
7 of 10 **A7**
FIRST & SECOND
ELECTRICAL PLAN

DETAIL	DESCRIPTION
S-1	INDEX
S-2	BY-PASS S.G.D.
S-3	POCKET S.G.D.
S-4	ENTRY DOOR
S-5	GARAGE DOOR
S-6	TUB RECESS
S-7	12" MONO FOOTING
S-8	16" MONO FOOTING
S-9	LOAD BEARING GARAGE STEP
S-10	GRADE BEAM
S-11	SHOWER CURB
S-12	SERVICE DOOR
S-13	NON-LOAD BEARING GARAGE STEP
S-14	INTERIOR LOAD BEARING WALL FTG
S-15	8" MONO FOOTING
S-16	NON-LOAD BEARING BL-PASS S.G.D.
S-17	POCKET S.G.D.
S-18	MONO FOOTING W/ BRICK VENEER ON CONCRETE BLOCK
S-19	MONO FOOTING W/ BRICK VENEER ON WOOD FRAMING
S-20	TERMITE TREATMENT SOIL CHEMICAL BARRIER METHOD
S-21	TYP. RETROFIT FILLED CELL
S-22	TYP. NEW MASONRY RETROFIT
S-23	RETIROFIT - MTS ANCHOR
S-24	COMPONENT & CLADDING DESIGN PRESSURE TABLE
S-25	REINFORCING BAR LAP SPLICES TYP. #5 STANDARD 90° HOOK
S-26	REINFORCING BAR LAP SPLICES TYP. #5 STANDARD 90° HOOK
S-27	REINFORCING BAR LAP SPLICES TYP. #5 STANDARD 90° HOOK
S-28	TYPICAL BEAM TO CMU WALL CONNECTION



tributary area (ft ²)	roof (gcp=+/- .18)	wall (gcp=+/- .18)
10	23.3	-95.4
20	21.3	-89.2
50	18.5	-81.0
100	16.5	-74.8
500		30.2

tributary area (ft ²)	roof (gcp=+/- .18)	wall (gcp=+/- .18)
10	23.3	-95.4
20	21.3	-89.2
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tributary area (ft ²)	roof (gcp=+/- .18)	wall (gcp=+/- .18)
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20	21.3	-89.2
50	18.5	-81.0
100	16.5	-74.8
500		30.2

STRUCTURAL NOTES

- 1) CODES:
- 2) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-LATEST).
- 3) "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN", BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 9TH EDITION.
- 4) "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY THE TRUSS PLATE INSTITUTE (TPI) LATEST EDITION.
- 5) DESIGN CRITERIA:
- 6) DWELLING FLOORS - 40 PSF LIVE LOAD + 15 PSF DEAD LOAD.
- 7) BALCONIES - 60 PSF LIVE LOAD + 15 PSF DEAD LOAD.
- 8) ROOF OVER LIVING AREAS - 20 PSF LIVE LOAD, 17 PSF (7 PSF T/C & 10 PSF B/C) DEAD LOAD FOR SHINGLE ROOFS; 25 PSF (15 PSF T/C & 10 PSF B/C) DEAD LOAD FOR CONCRETE TILE ROOFS.
- 9) WIND - 145mph 3 SECOND GUST EXPOSURE "B" IMPORTANCE FACTOR, "I" = 1, CATEGORY II, ENCLOSED BUILDING.
- 10) NET UPLIFT DEAD LOADS 10 PSF SHINGLE; 15 PSF TILE.
- 11) SEE FLOOR PLAN FOR COMPONENT & CLADDING PRESSURE.
- 12) SOIL:
- 13) MINIMUM ALLOWABLE SOIL PRESSURE 2000 PSF.
- 14) ALL SOIL IS TO BE CLEAN & POISONED FOR TERMITES PER FBC 2007 SECTIONS 105.10, 105.11.
- 15) CONCRETE:
- 16) CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS; 2500 PSI (NORMAL WEIGHT).
- 17) REINFORCING BARS: ASTM A615 (GRADE 40).
- 18) WELDED WIRE FABRIC (WWF): ASTM A185.
- 19) DETAILED REINFORCEMENT IN ACCORDANCE WITH ACI 315.
- 20) CONCRETE COVERAGE OF REINFORCEMENT: FOOTINGS 3" BOTTOM AND SIDES.
- 21) EARTH SUPPORTED SLABS (INCLUDING EXTERIOR WALK AND DRIVE SLABS) 3.5" THICK MIN. REINFORCED W6x6 - W14 X W14 WWF AT MID-DEPTH OF SLAB. FIBERMESH MAY BE USED IN LIEU OF WWF AT CONTRACTOR'S OPTION.
- 22) CONCRETE OPERATIONS SHOULD COMPLY WITH ACI STANDARDS.
- 23) LAP SPLICE SHALL BE AS FOLLOWS; #5 BAR 25", #4 BAR 20", #3 BAR 15"
- 24) CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME OR AS REQ'D BY SUPPLIER.
- 25) 10' x 10' SLUMP RANGE 4" TO 6" FOR F.L.C. WORK, 8-11" W/MORANGE WATER REDUCER FOR UNTEL POURS.
- 26) PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS AS REQUIRED. BE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.
- 27) PROVIDE PROPER CLEARANCE - 3" FOOTINGS, 1.5" COLUMNS & BEAMS
- 28) RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE SUPPLIER.
- 29) MASONRY:
- 30) DESIGN AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND ACI 530 - LATEST.
- 31) MINIMUM MASONRY UNIT STRENGTH: FM 1350 PSI.
- 32) MORTAR SHALL BE TYPE S.
- 33) ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE WHEN STEM WALL IS GREATER THAN 24" TALL ABOVE GRADE. FOR STEM WALLS TALLER THAN 40" CONTACT ENGINEER.
- 34) FILL CELLS SHOULD BE LOCATED AS INDICATED ON FOUNDATION PLAN.
- 35) LINTELS SUPPLIED BY APPROVED MANUFACTURER:
- 36) 1) FBC/CAST-CRTE CORPORATION 2) POWER CONCRETE 3) ALLIED PRECAST 4) LOTT 5) WELKA 6) MARION MASONRY
- 37) WOOD:
- 38) WOOD STRUCTURAL FRAMING MEMBERS; #2 SOUTHERN YELLOW PINE (UNLESS NOTED OTHERWISE) WITH AN ALLOWABLE BENDING STRESS (Fb) PER NDS-LATEST = 1250 PSI AND A MODULUS OF ELASTICITY = 1,600,000 PSI EXCEPT STUDS WHERE SPF STUD OR CONSTRUCTION GRADE MAY BE USED. TOP PLATES SHALL HAVE NO OCCURRENCE OF SPLITS, CHECKS AND SHAKES.
- 39) DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY THE TRUSS PLATE INSTITUTE, LATEST EDITION, HIB-LATEST EDITION AND QST-LATEST EDITION.
- 40) ALL EXPOSED WOOD OR WOOD #1 CONTACT WITH EARTH OR CONCRETE TO BE PRESSURE TREATED.
- 41) ROOF SHATHING (APA RATED EXPOSURE 1) 5" PLYWOOD OR 5/8" OSB MINIMUM SHINGLES OR TILE
- 42) UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE. METAL SEAT PLATES, ROOFING FELT, OR BITUMINOUS MATERIAL SHALL BE PLACED BETWEEN ALL TRUSSES, LVL'S, ANY OTHER UNTREATED LUMBER OR PLYWOOD AND CONCRETE OR MASONRY SURFACES.
- 43) MICRO-LAW LUMBER:
- 44) MICRO-LAW STRESS GRADES SHALL PROVIDE THE FOLLOWING MINIMUM PROPERTIES:
- 45) E = 1,700,000 PSI Fb = 2,950 PSI Ft = 1,850 PSI
- 46) F = 500 PSI (PERPENDICULAR) Fc = 2,700 PSI (PARALLEL) Fv = 285 PSI
- 47) STEEL:
- 48) INSTALLATION OF ALL STEEL TO BE PERFORMED BY AN EXPERIENCED, QUALIFIED STEEL ERECTOR.
- 49) FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- 50) STRUCTURAL STEEL; ASTM A36.
- 51) STEEL TUBING; ASTM A500, GRADE B.
- 52) WELDED CONNECTIONS; 3/8"X ELECTRODES, MINIMUM SIZE FILLET WELDS 3/16", AWS CERTIFIED WELDERS. CERTIFICATION PAPERS TO BE SUBMITTED UPON REQUEST.
- 53) WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES ON EACH SIDE OF THE WEB OF A THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED AT THE CENTER LINE OF THE COLUMN.
- 54) NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS BEFORE CONSTRUCTION BEGINS. ALLTECH STRUCTURAL ENGINEERING INC. IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS PROJECT ONLY. ANY DISCREPANCY BETWEEN FIELD CONDITIONS, OTHER DESIGN PROFESSIONALS' SHOP DRAWINGS, CONTRACTORS' BUILDING METHODS, AND THESE SIGNED AND SEALED DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF ALLTECH STRUCTURAL ENGINEERING INC. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 55) KELLY E. LYONS, P.E. #56191

TERMITES

Notice of termite protection. A permanent sign which identifies the termite treatment provider and need for reinspection and treatment contract renewal shall be provided. The sign shall be posted near the water heater or electric panel. Protection against decay and termites. Condensate lines and roof downspouts shall discharge at least 1 foot (305 mm) away from the structure sidewall, whether by under ground piping, tail extensions, or splash blocks. Gutters with downspouts are required on all buildings with eaves of less than 6 inches (152 mm) horizontal projection except for gable end rakes or on a roof above another roof.

R318.1 Termite protection. Termite protection shall be provided by registered termiticides, including soil applied pesticides, baiting systems, and pesticides applied to wood, or other approved methods of termite protection labeled for use as a preventative treatment to new construction. See Section 202, Registered Termiticide. Upon completion of the application of the termite protective treatment, a certificate of compliance shall be issued to the building department by the licensed pest control company that contains the following statement: "The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services."

R318.1.1 If soil treatment is used for subterranean termite prevention, the initial chemical soil treatment inside the foundation perimeter shall be done after all excavation, backfilling and compaction is complete.

R318.1.2 If soil treatment is used for subterranean termite prevention, soil area disturbed after initial chemical soil treatment shall be retreated with a chemical soil treatment, including spaces boxed or formed.

R318.1.3 If soil treatment is used for subterranean termite prevention, space in concrete floors boxed out or formed for the subsequent installation of plumbing traps, drains or any other purpose shall be created by using plastic or metal permanently placed forms of sufficient depth to eliminate any planned soil disturbance after initial chemical soil treatment.

R318.1.4 If soil treatment is used for subterranean termite prevention, chemically treated soil shall be protected with a minimum 6 millimeter vapor retarder to protect against rainfall dilution. If rainfall occurs before vapor retarder placement, retreatment is required. Any work, including placement of reinforcing steel, done after chemical treatment until the concrete floor is poured, shall be done in such manner as to avoid penetrating or disturbing treated soil.

R318.1.5 If soil treatment is used for subterranean termite prevention, concrete overpour or mortar accumulated along the exterior foundation perimeter shall be removed prior to exterior chemical soil treatment, to enhance vertical penetration of the chemicals.

R318.1.6 If soil treatment is used for subterranean termite prevention, chemical soil treatments shall also be applied under all exterior concrete or grade within 1 foot (305 mm) of the primary structure sidewalls. Also, a vertical chemical barrier shall be applied promptly after construction is completed, including initial landscaping and irrigation/sprinkler installation.

R318.1.7 If a registered termiticide formulated and registered as a bait system is used for subterranean termite prevention, Sections R320.1.1 through R320.1.6 do not apply; however, a signed contract assuring the installation, maintenance and monitoring of the baiting system for a minimum of five years from the issue of the certificate of occupancy shall be provided to the building official prior to the pouring of the slab, and the system must be installed prior to final building approval. If the baiting system directions for use require a monitoring phase prior to installation of the pesticide active ingredient, the installation of the monitoring phase components shall be deemed to constitute installation of the system.

R318.1.8 If a registered termiticide formulated and registered as a wood treatment is used for subterranean termite prevention, Sections R318.1.1 through R318.1.6 do not apply. Application of the wood treatment termiticide shall be as required by label directions for use, and must be completed prior to final building approval.

R318.2 Penetration. Protective sleeves around metallic piping penetrating concrete slab-on-grade floors shall not be of cellulose-containing materials. If soil treatment is used for subterranean termite protection, shall receive application of a termiticide in annular space between sleeve and pipe.

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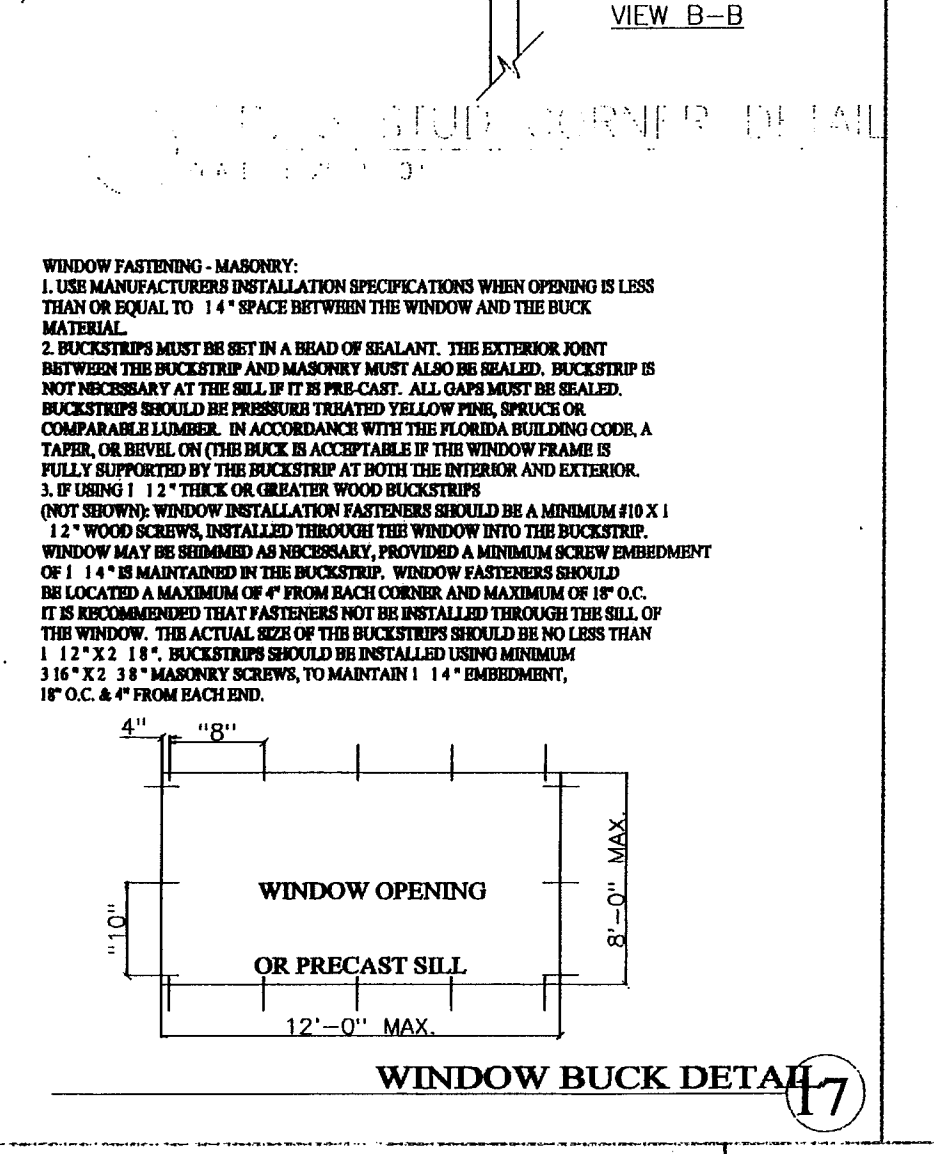
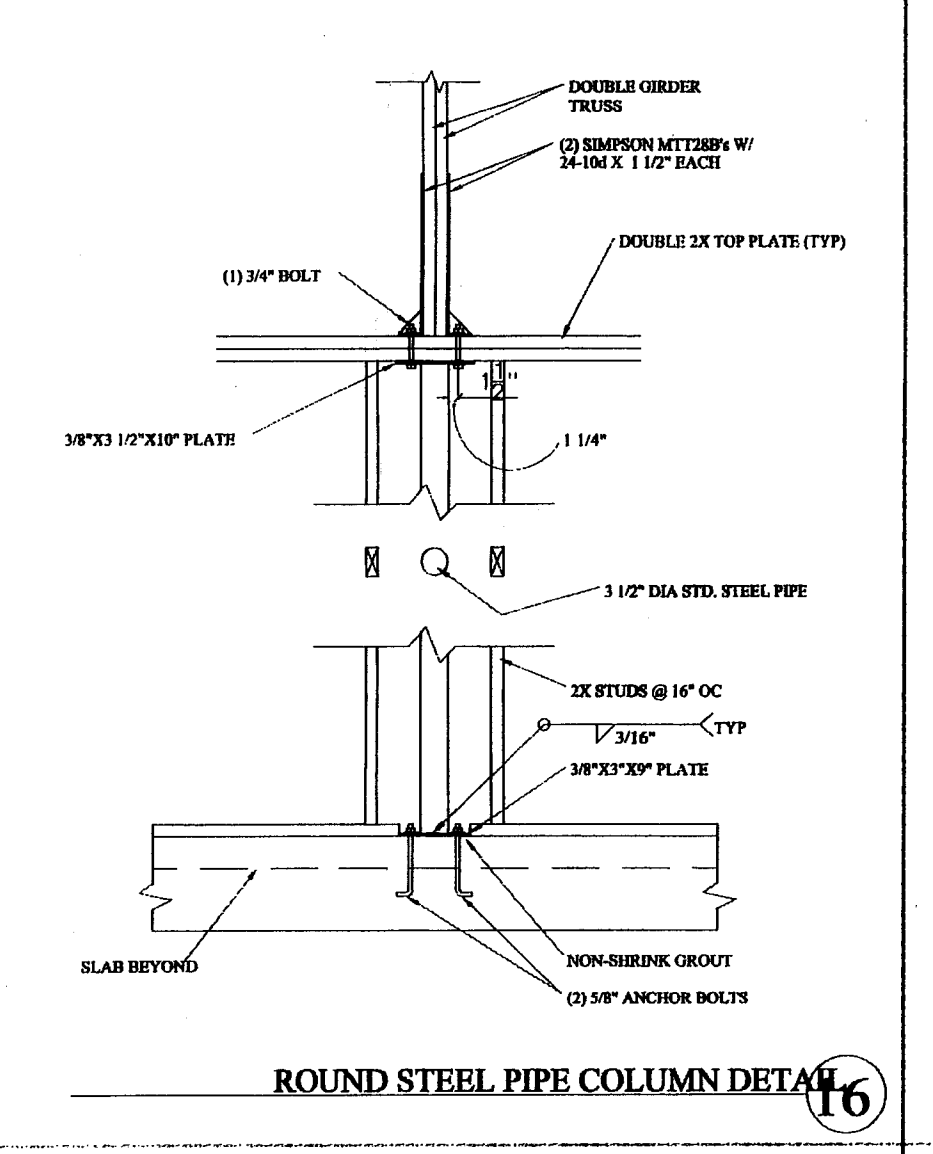
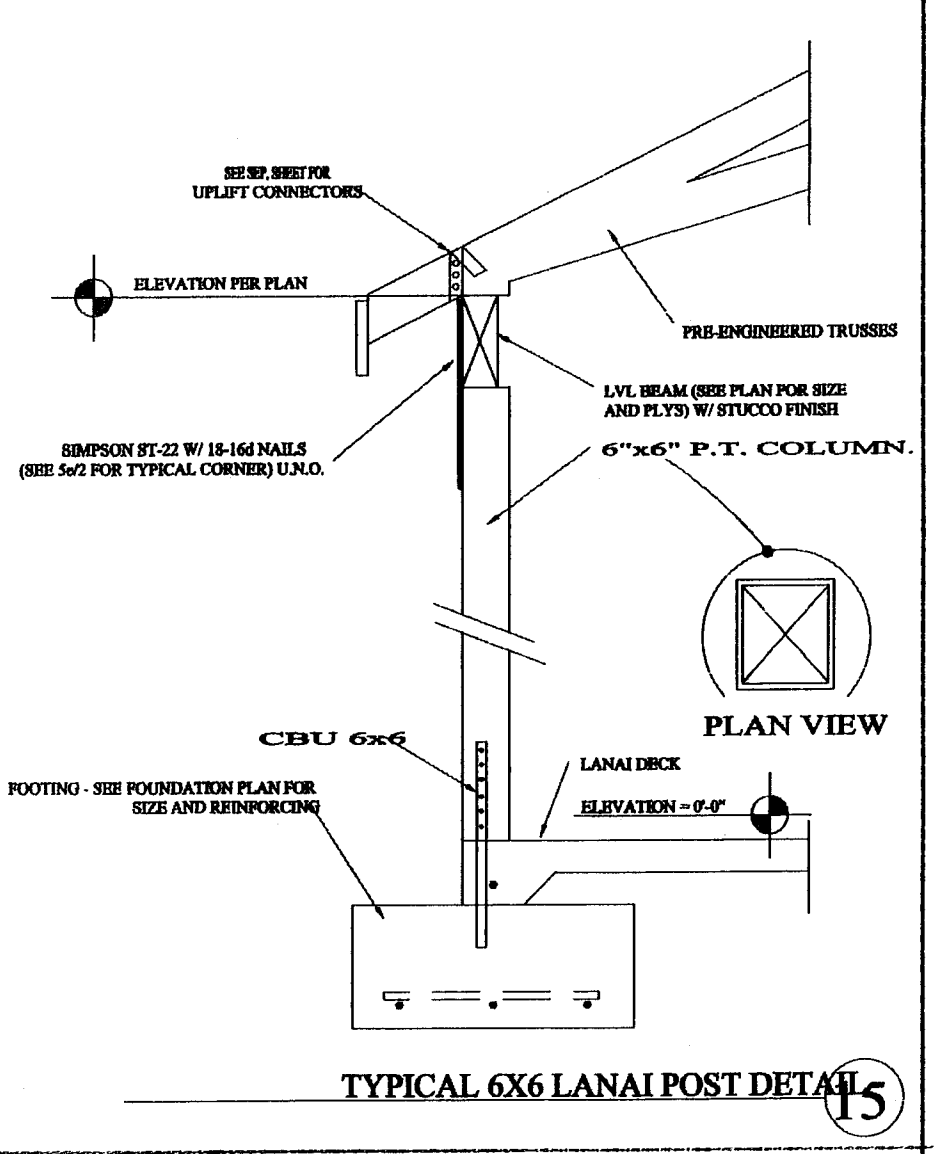
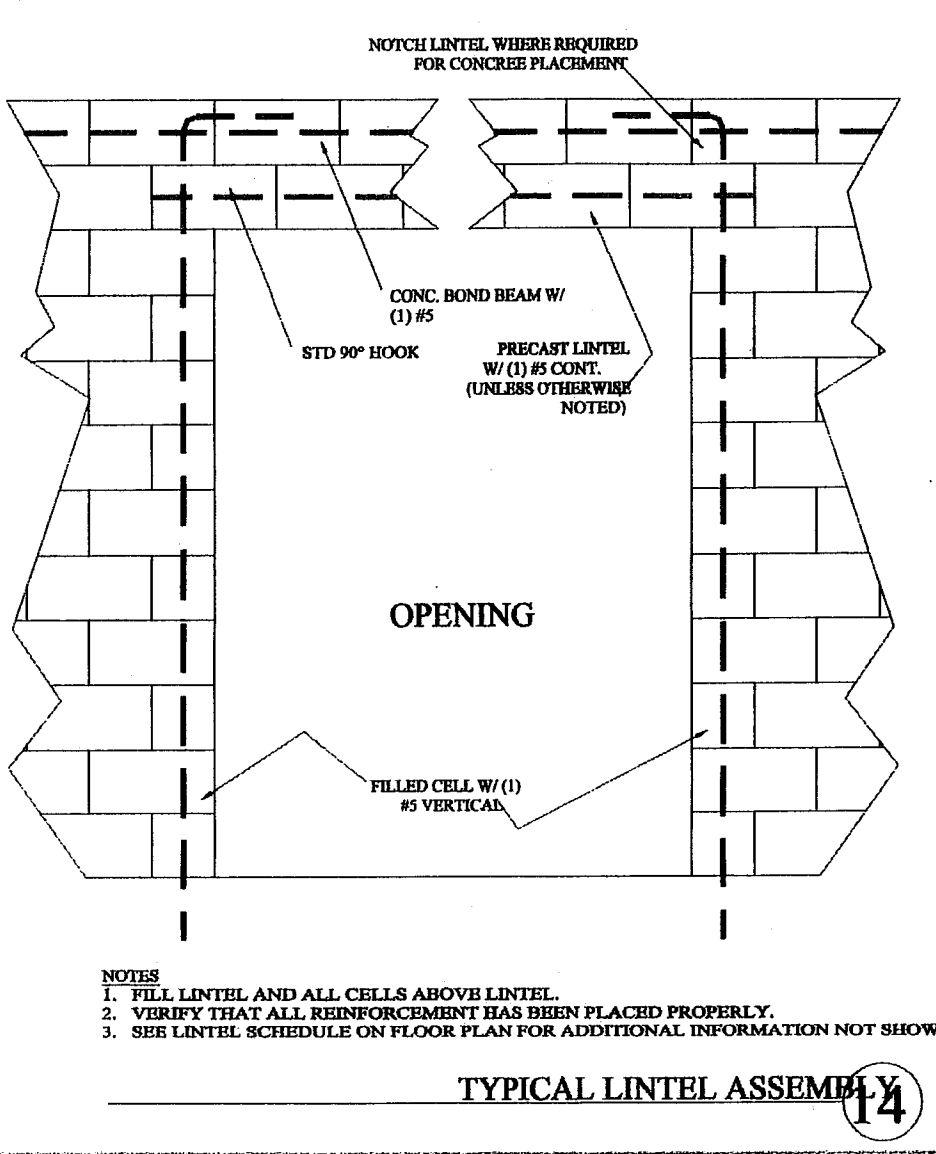
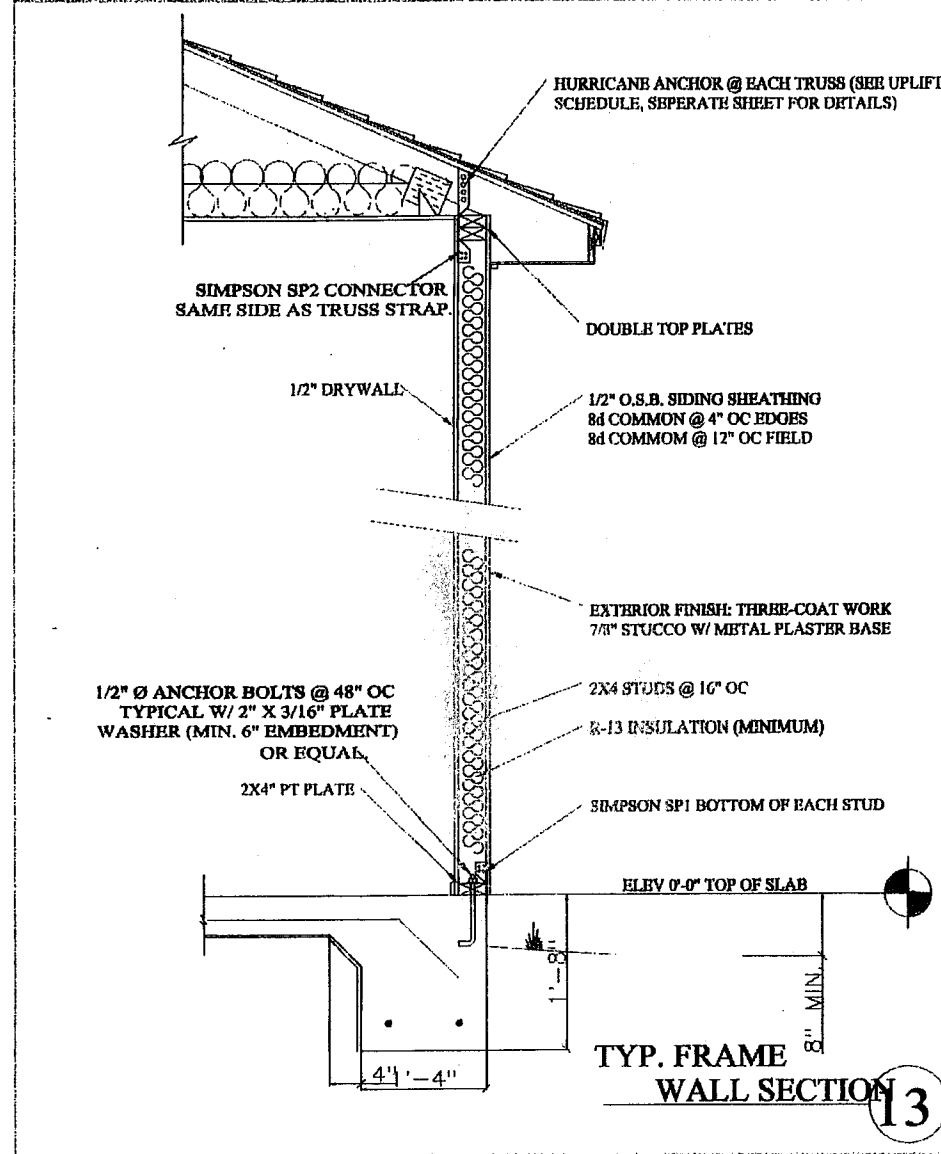
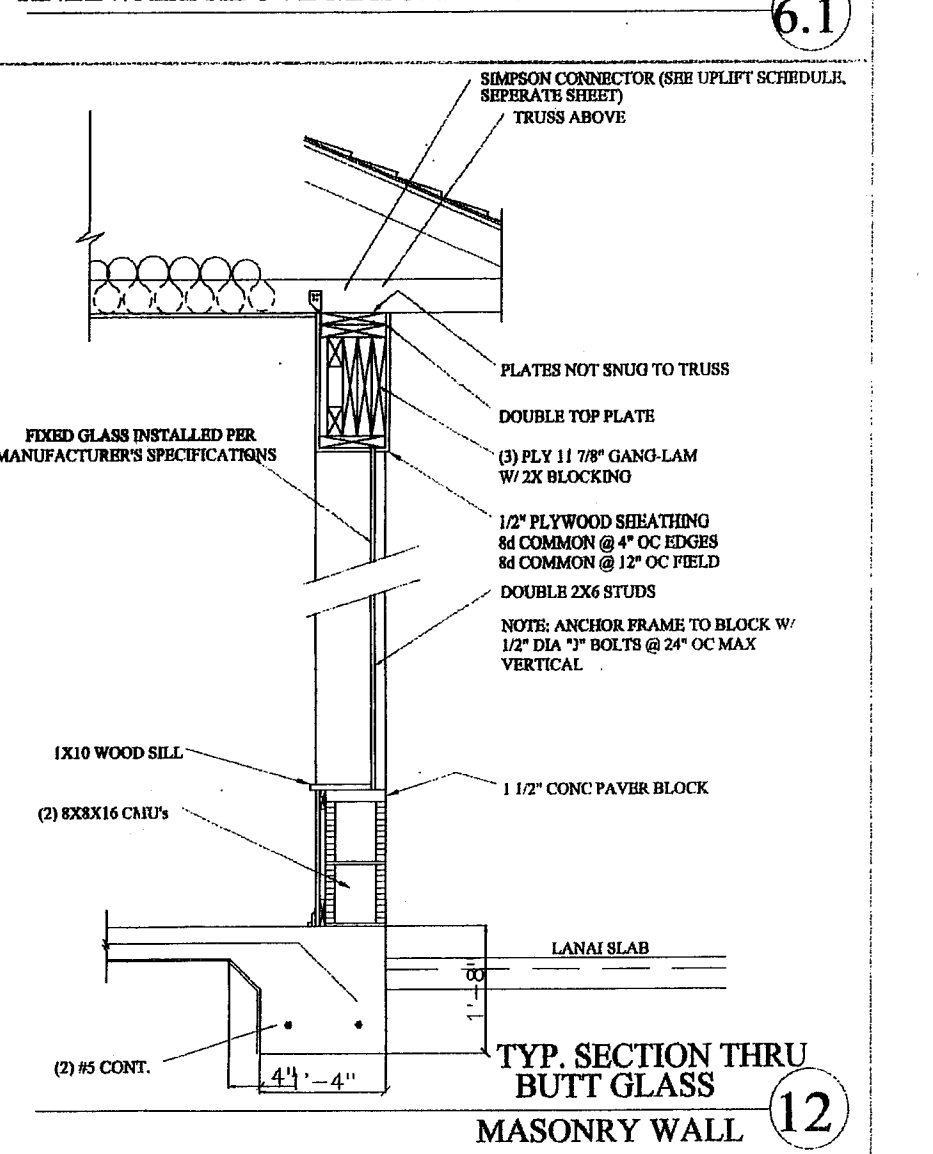
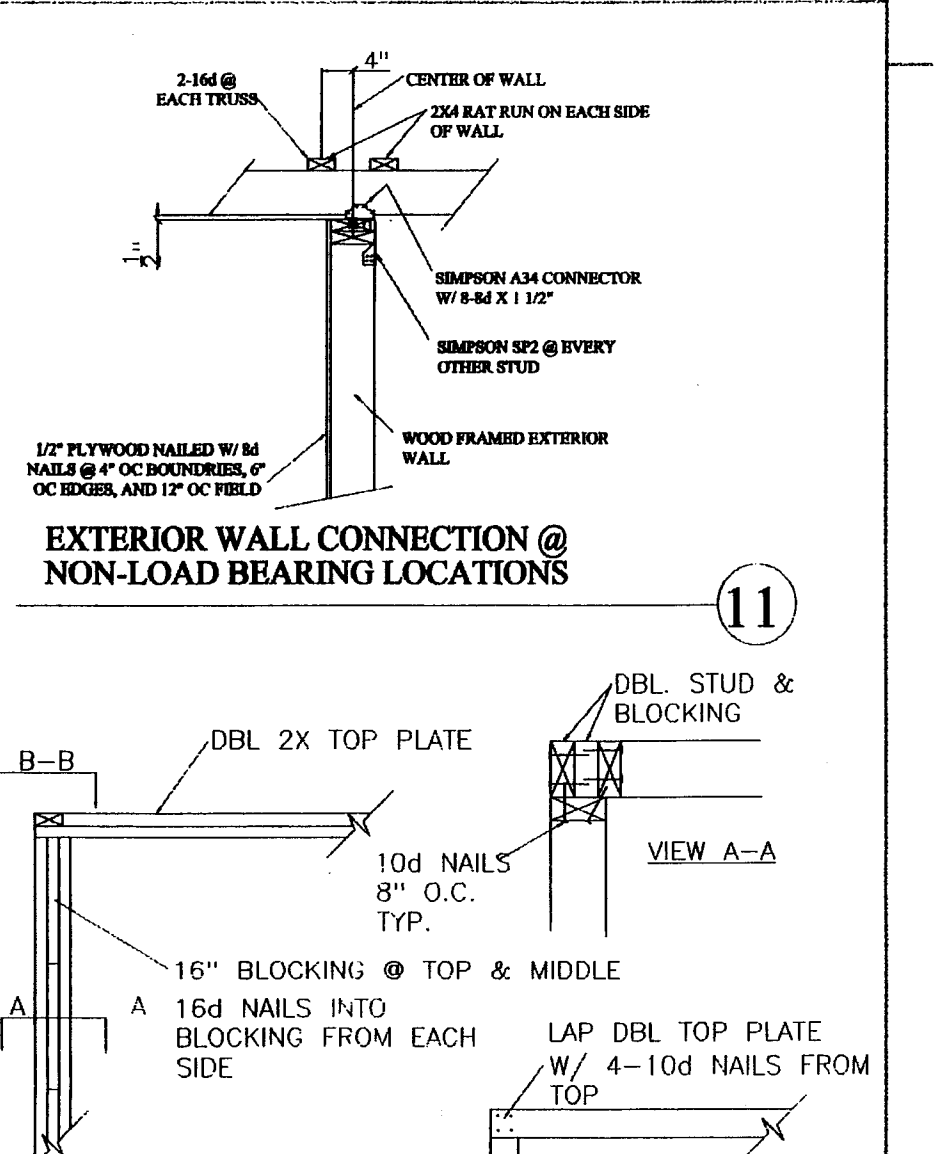
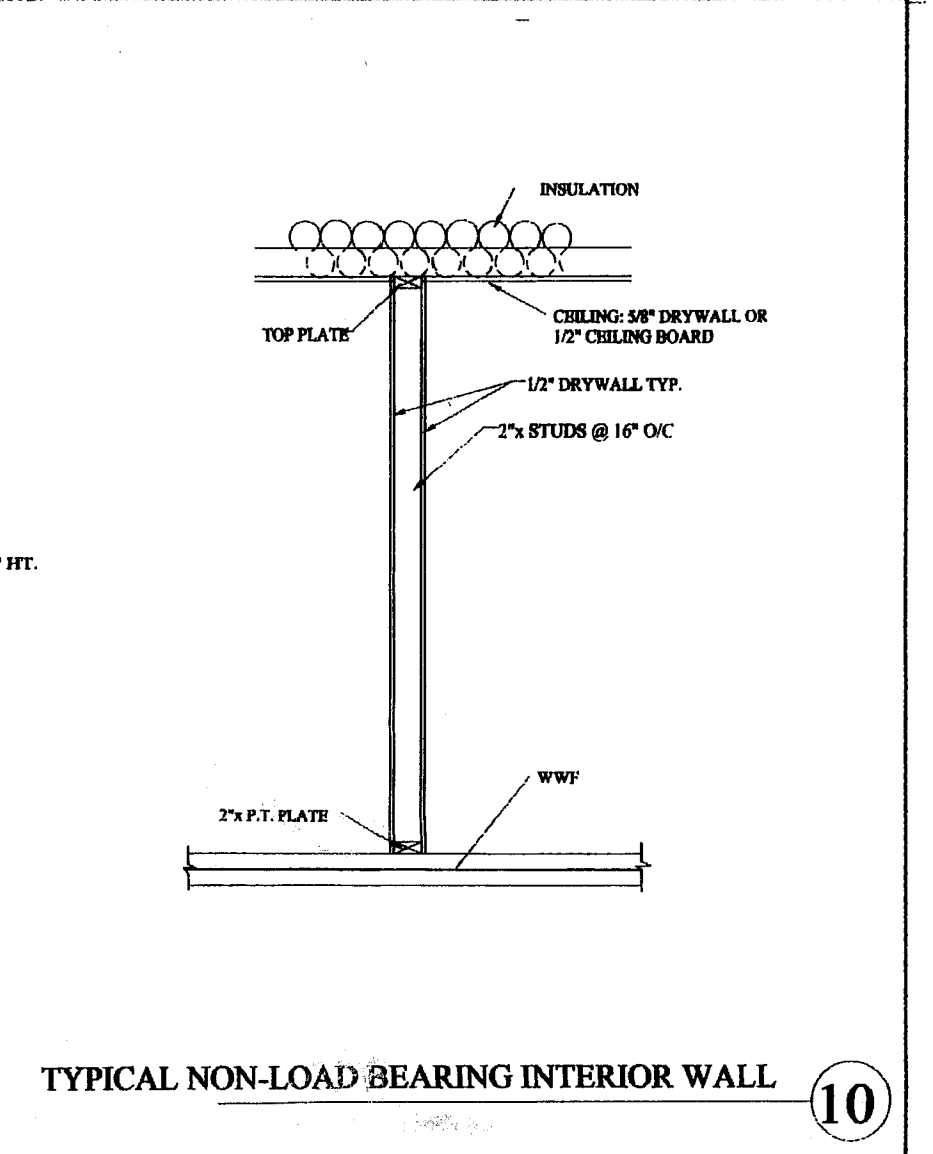
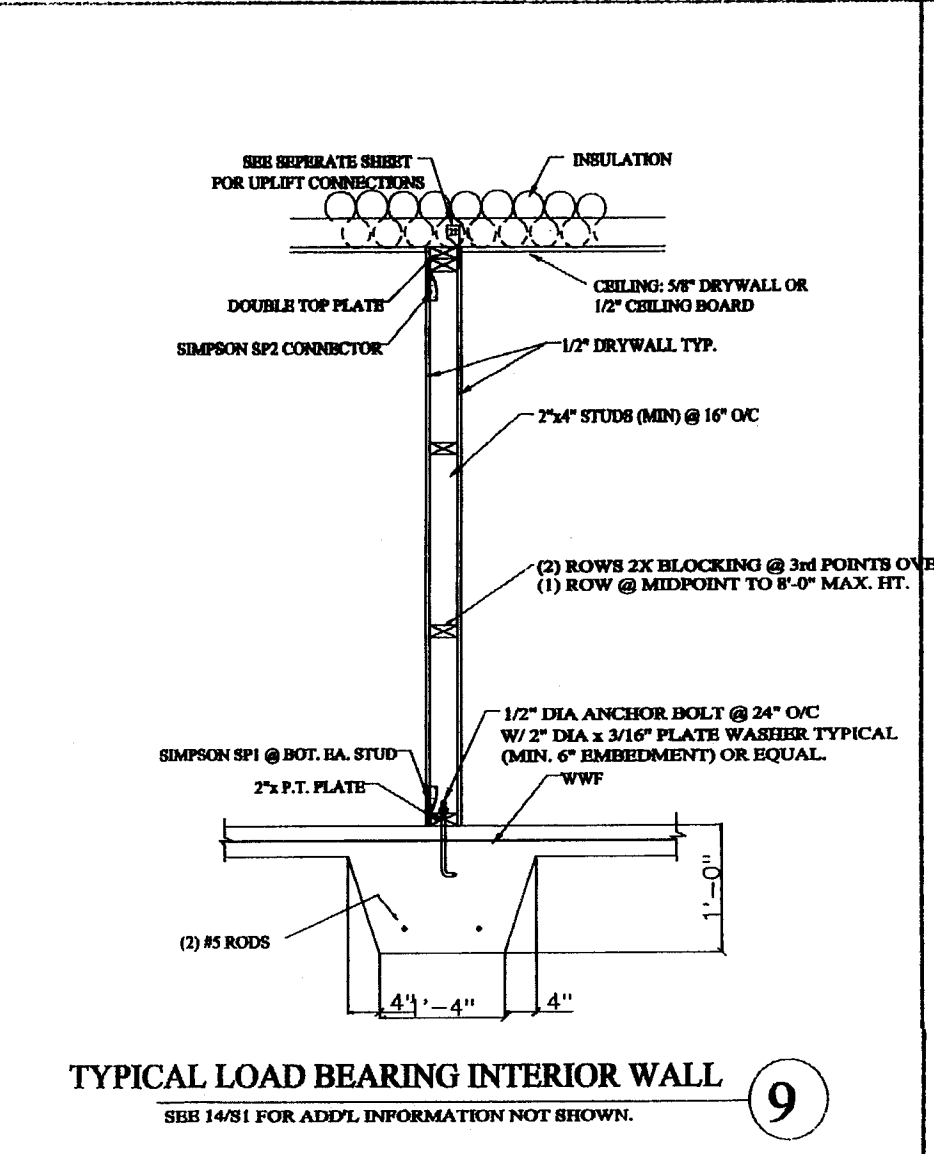
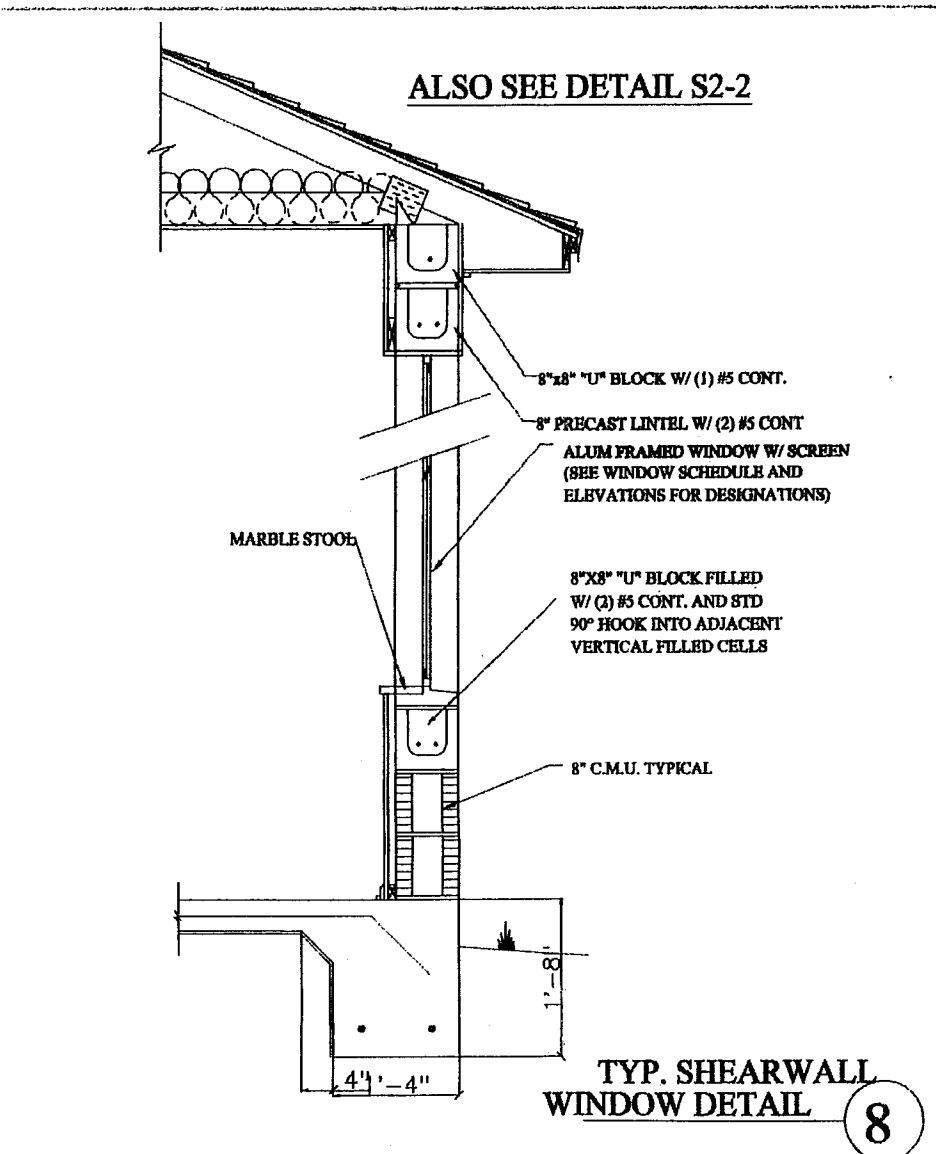
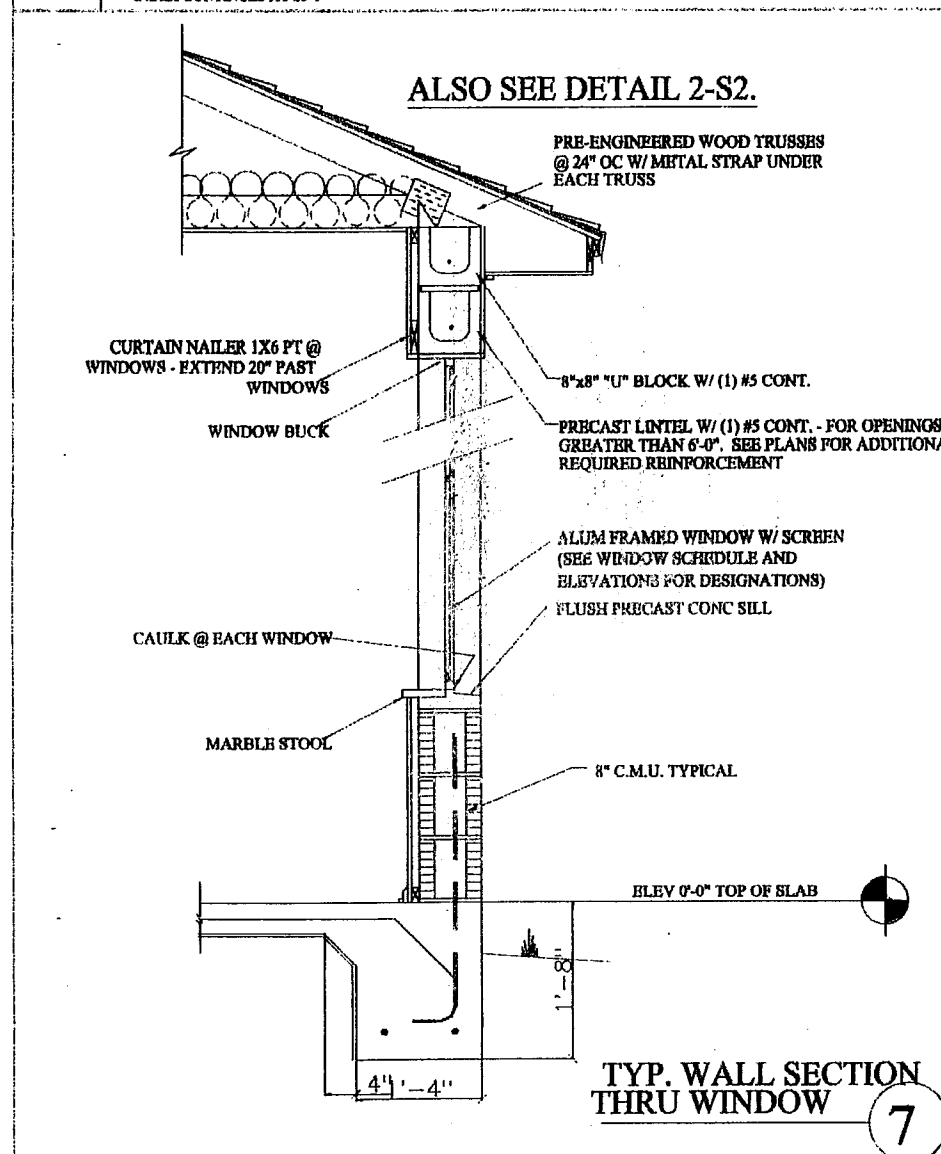
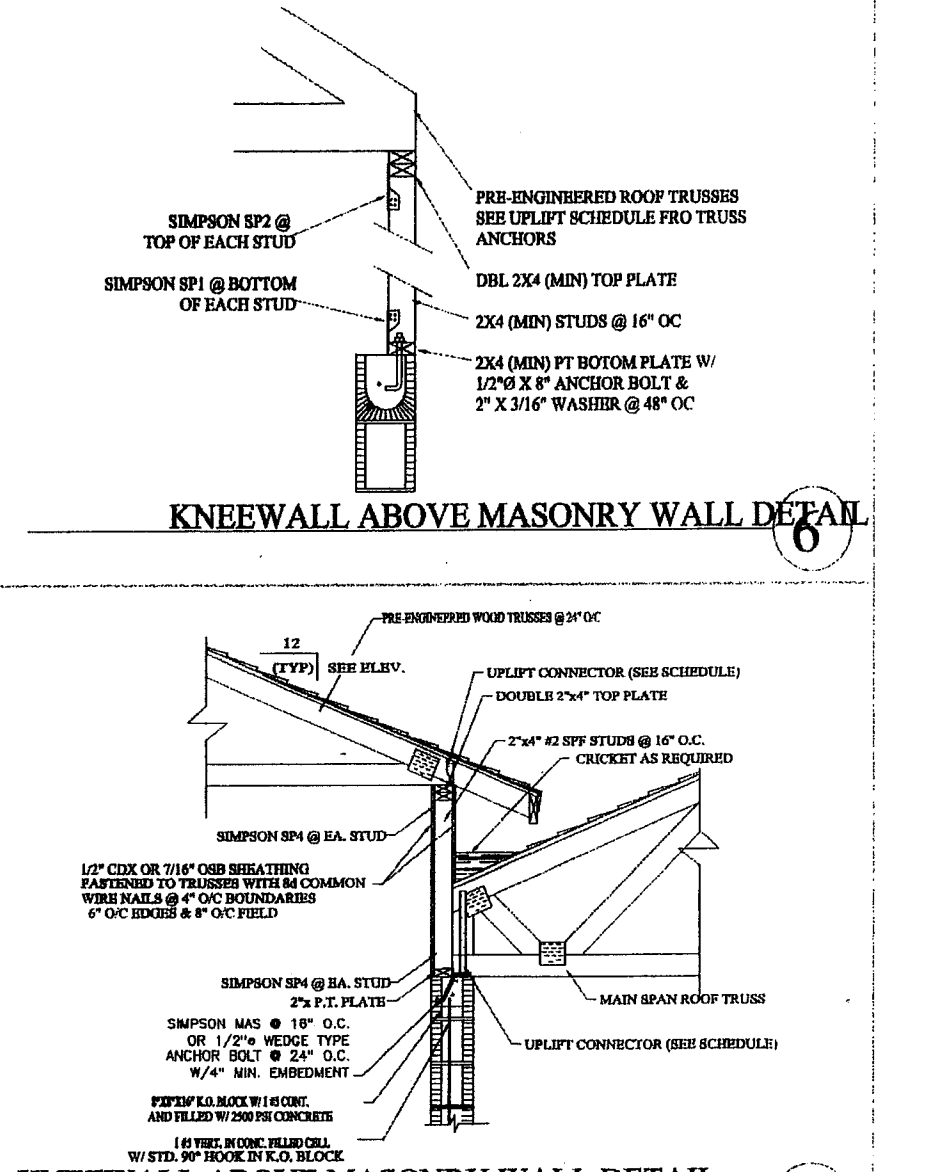
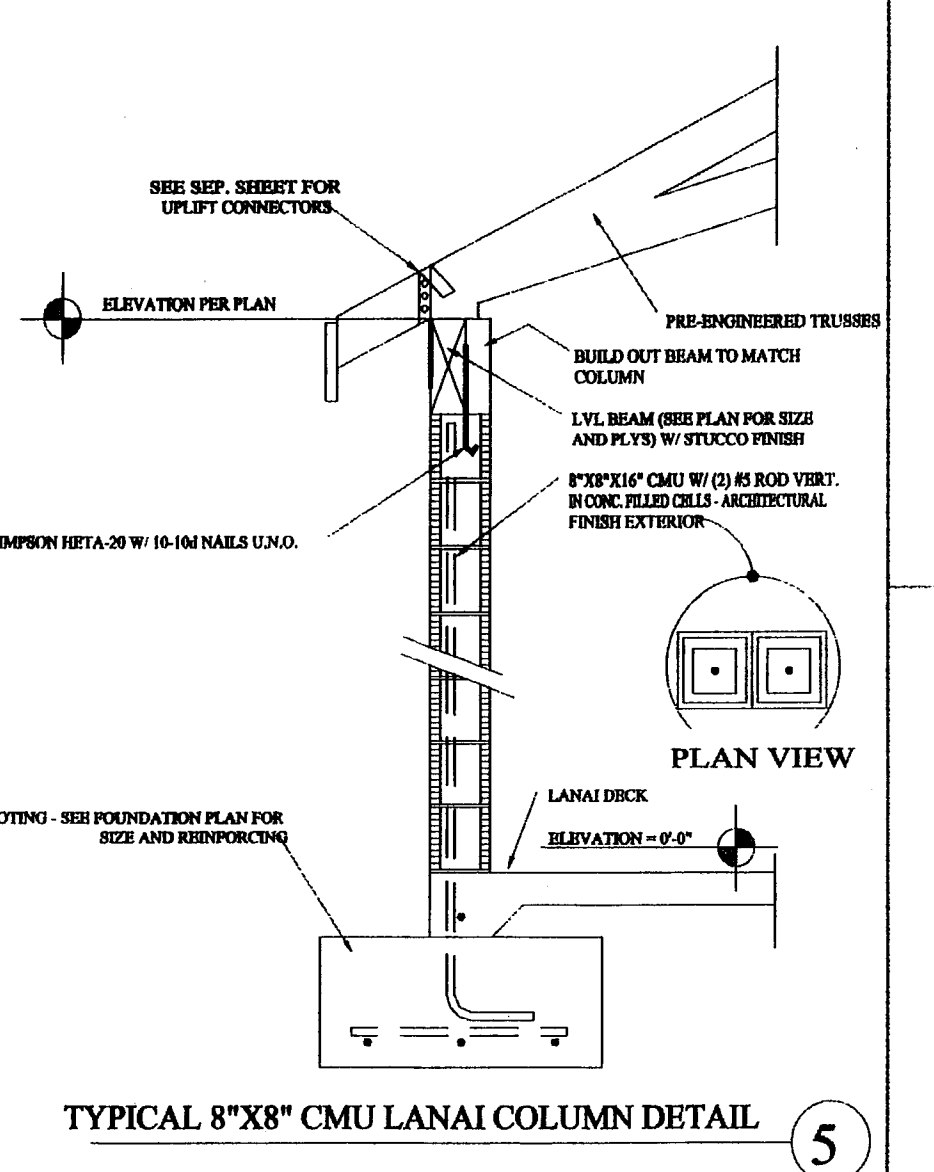
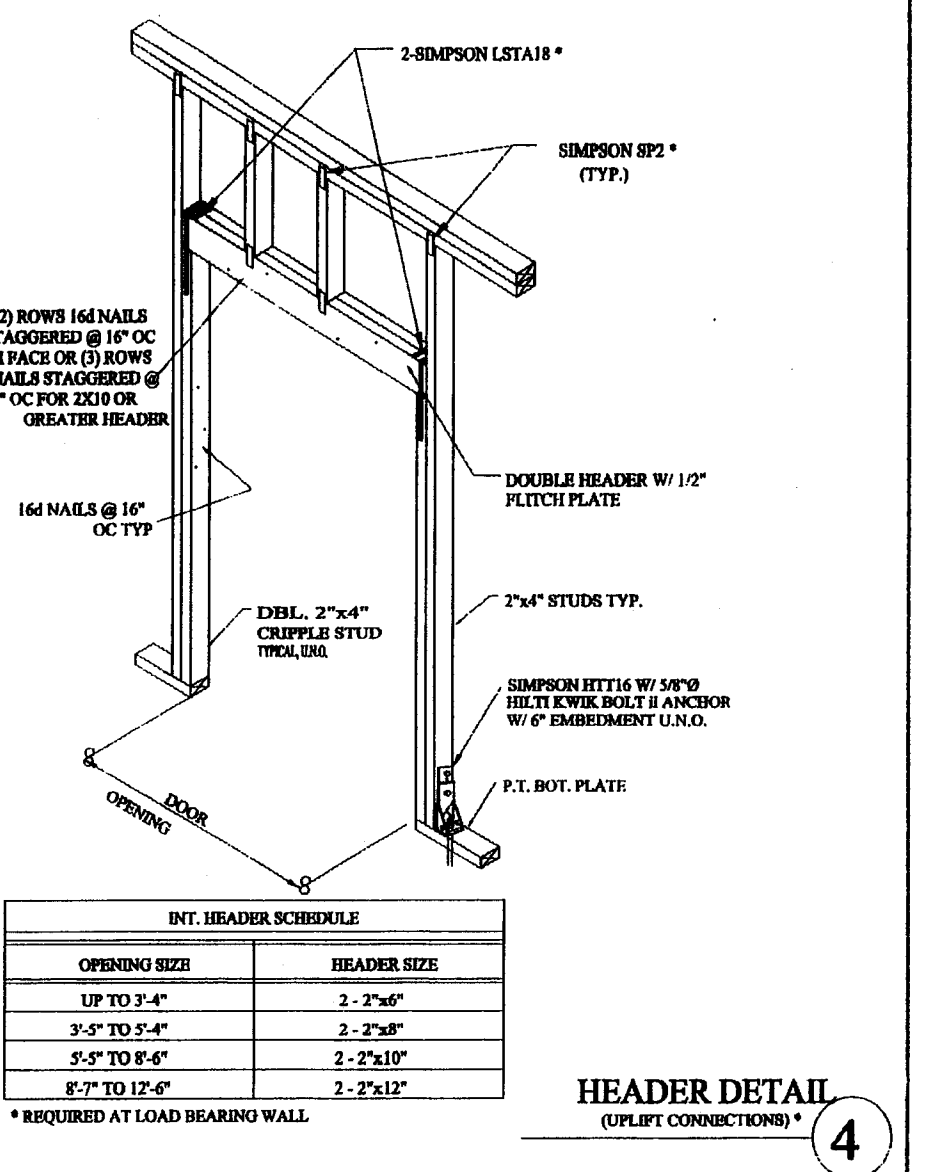
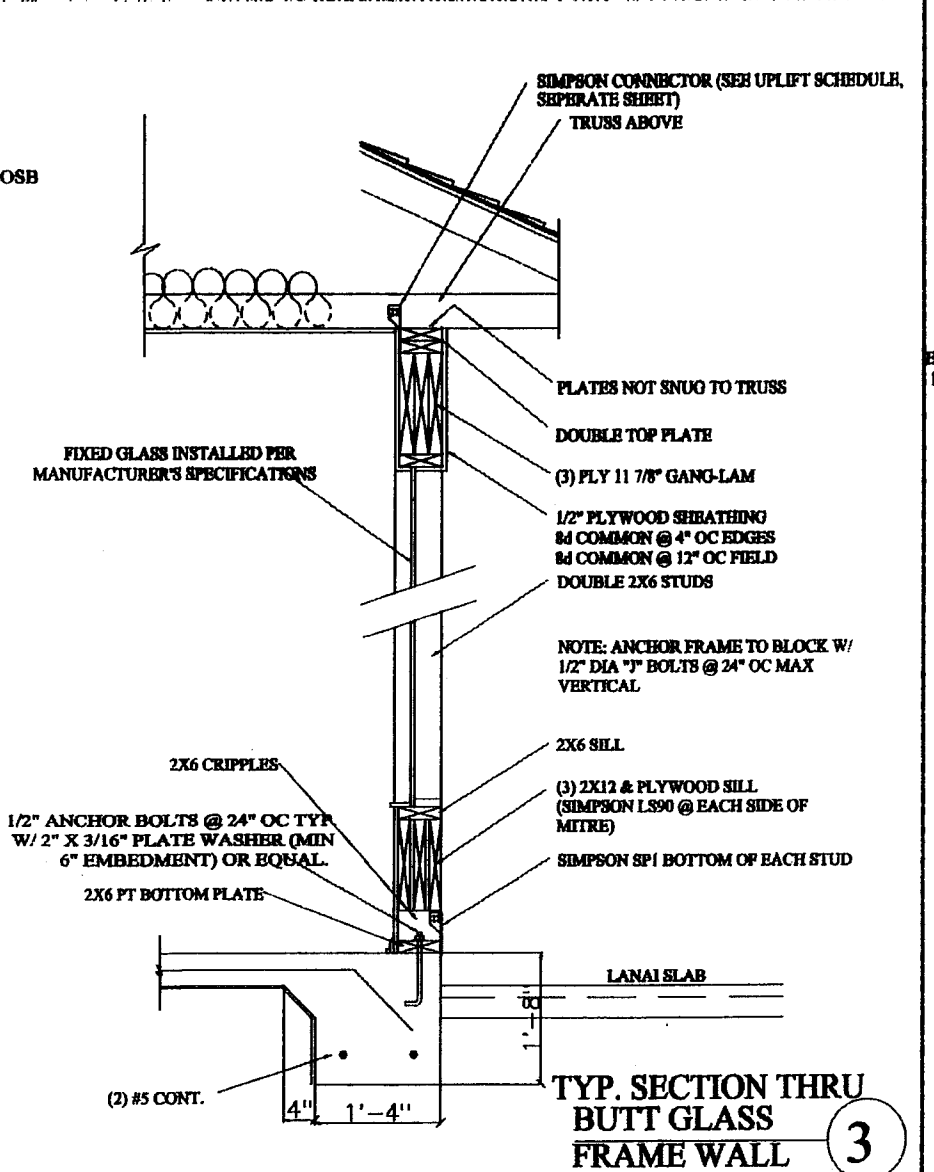
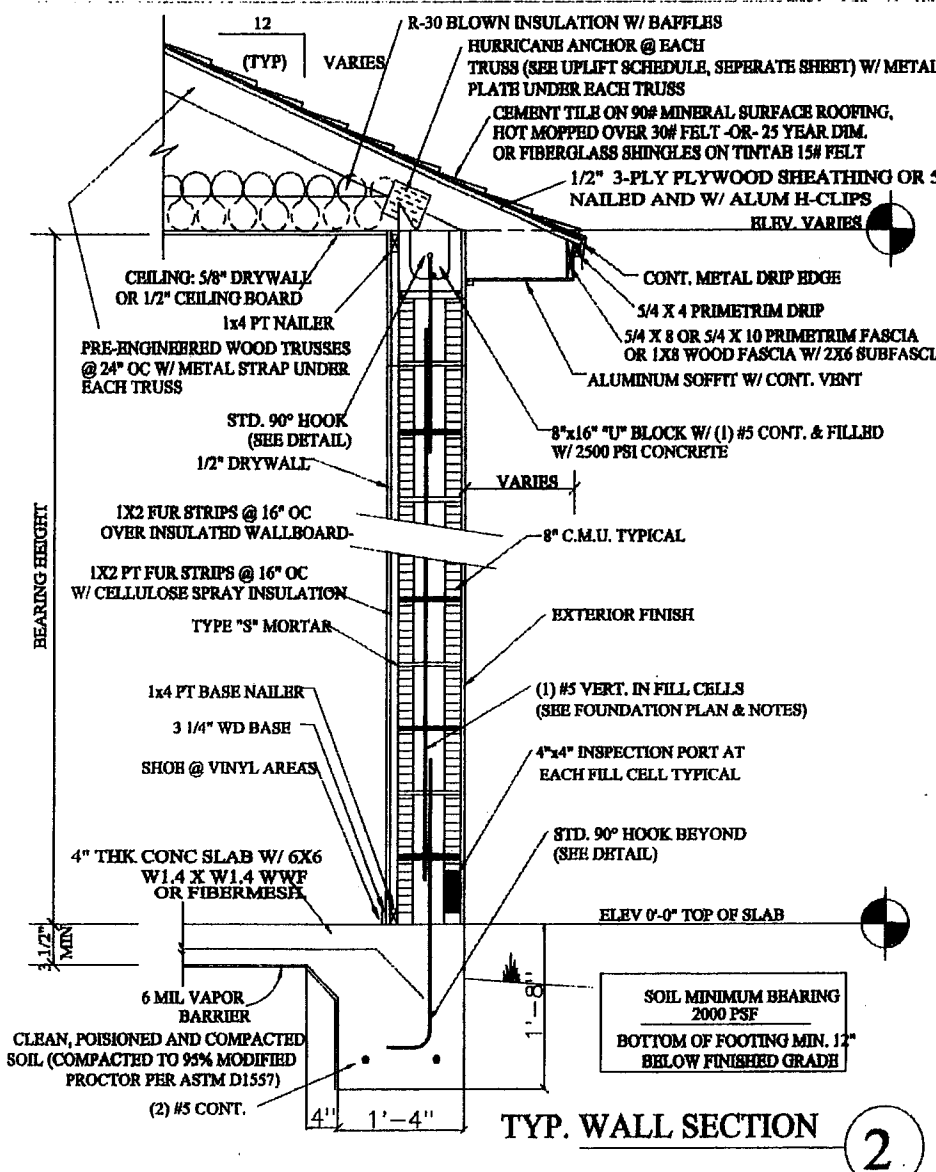
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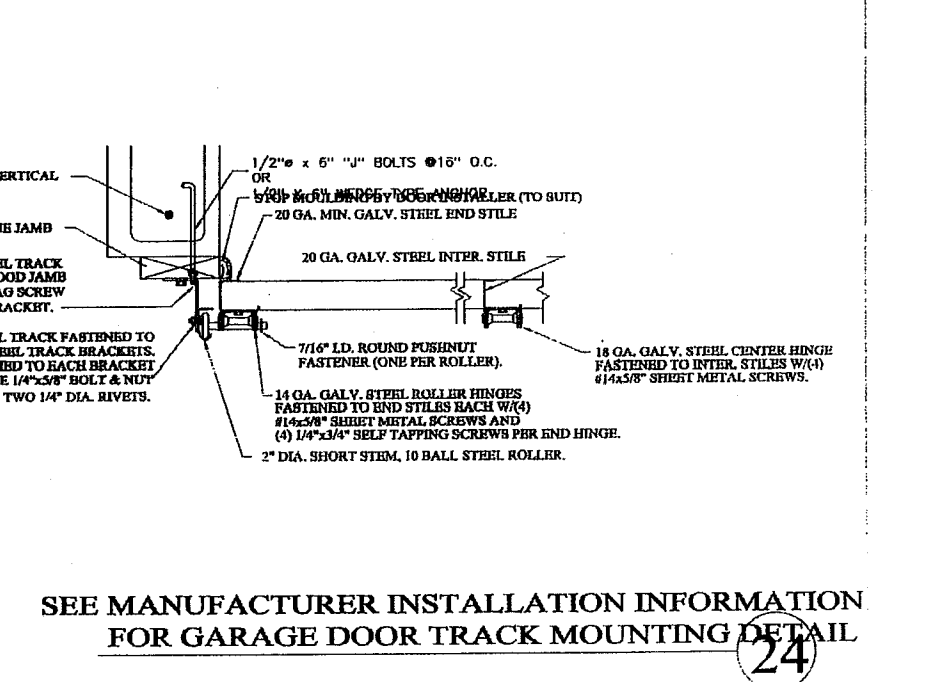
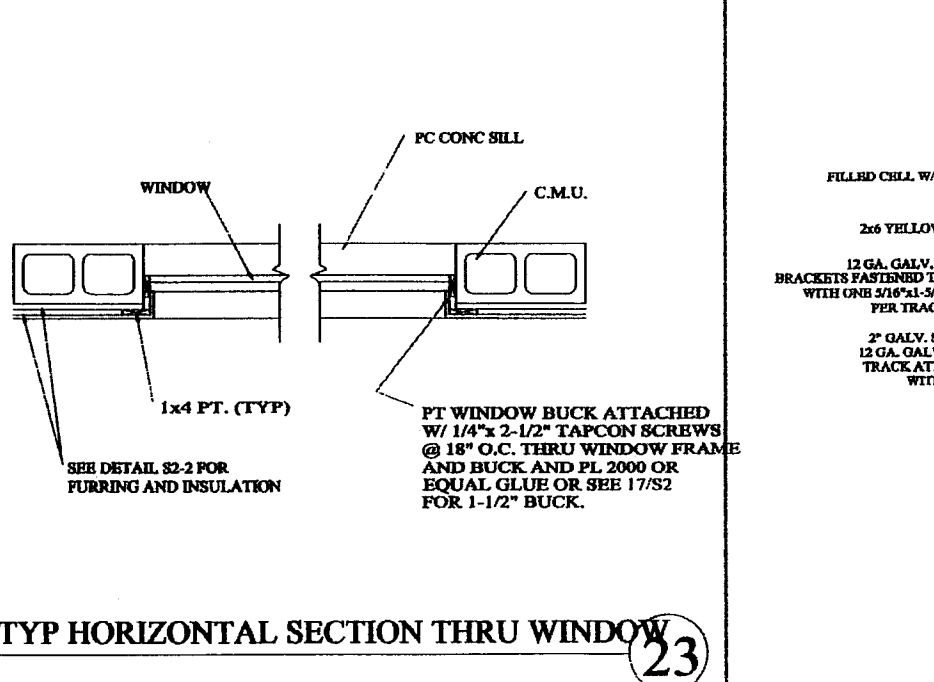
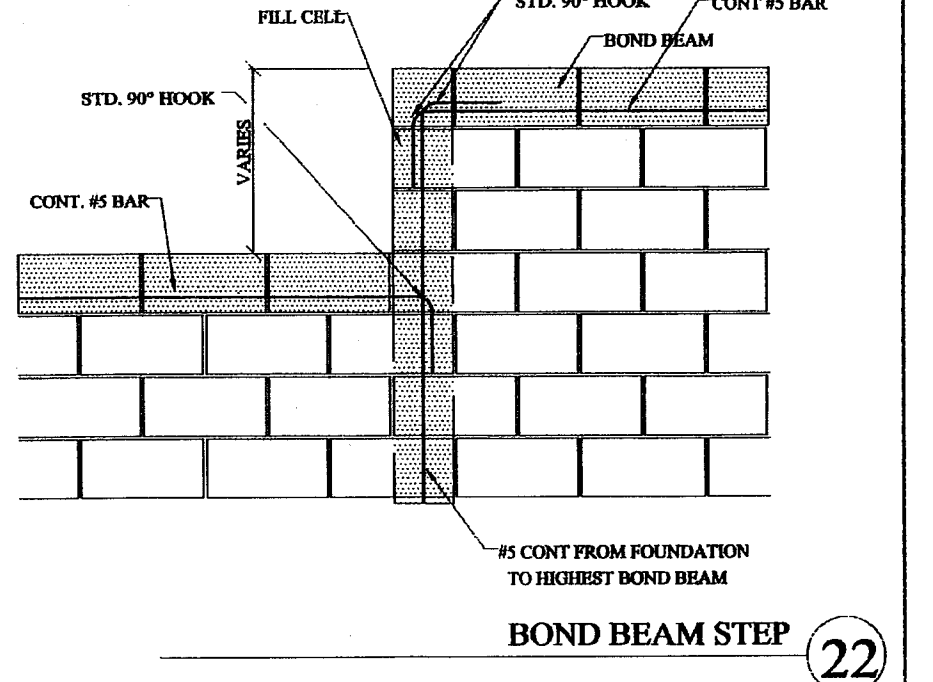
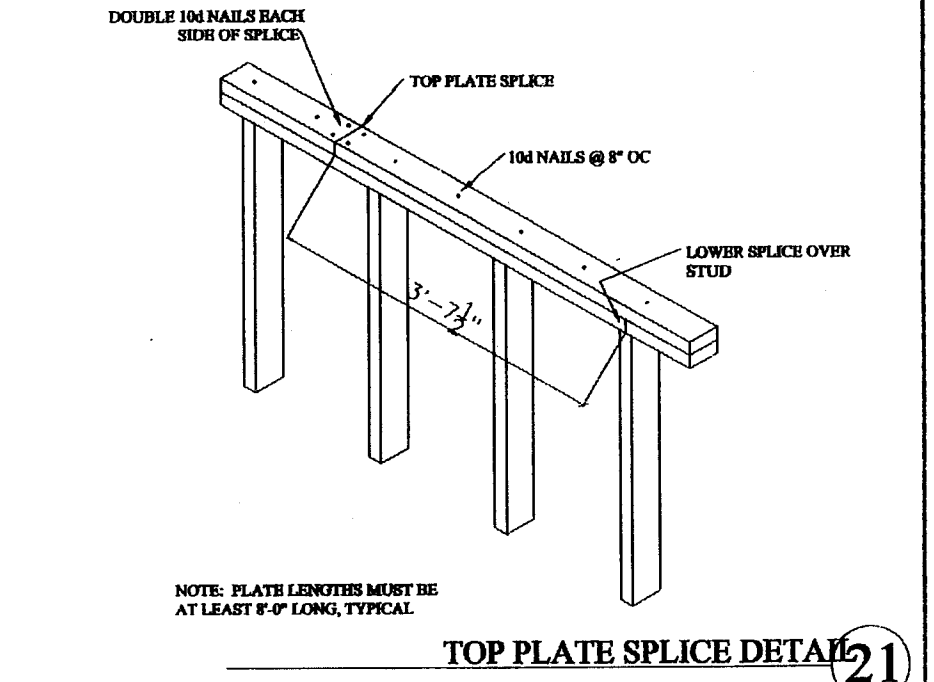
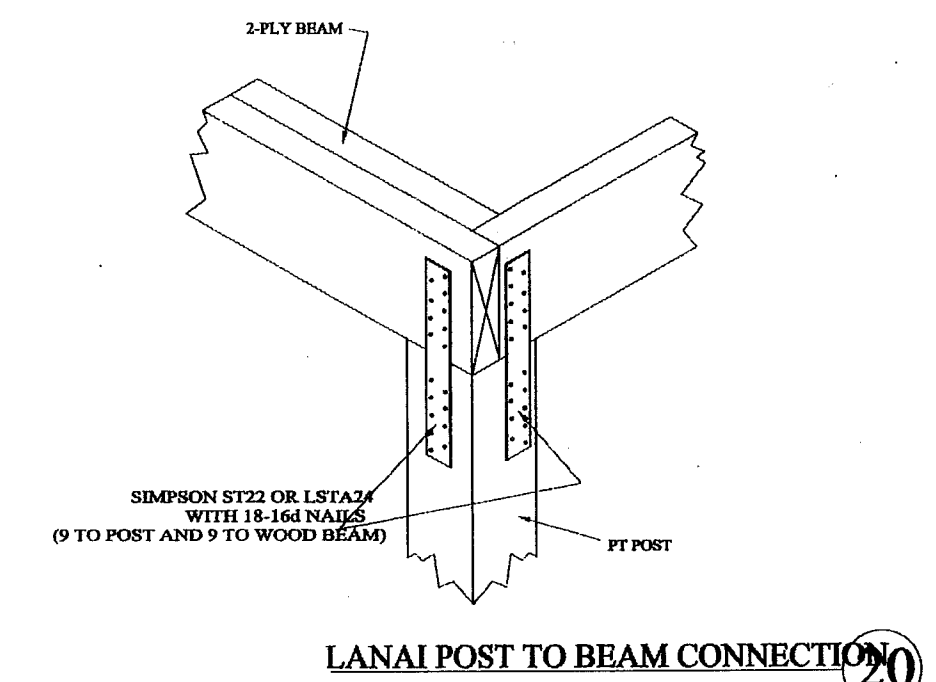
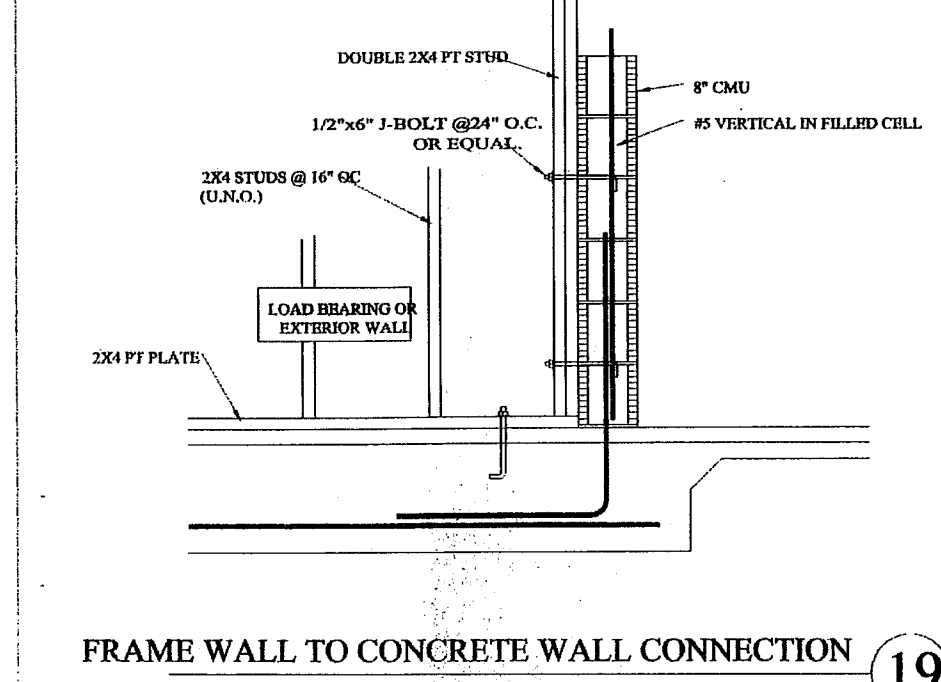
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DETAIL	DESCRIPTION
S-1	INDEX
S-2	TYPICAL WALL SECTION
S-3	TYPICAL SECTION THRU BUTT GLASS - FRAME WALL
S-4	HEADER DETAIL
S-5	TYPICAL 8"X8" CMU LANAI COLUMN DETAIL
S-6	KNEEWALL ABOVE MASONRY WALL DETAIL
S-7	TYPICAL WALL SECTION THRU WINDOW
S-8	TYPICAL SHEARWALL WINDOW DETAIL
S-9	TYPICAL LOAD BEARING INTERIOR WALL
S-10	TYPICAL NON-LOAD BEARING INTERIOR WALL
S-11	EXTERIOR WALL CONNECTION @ 1/2" LOAD BEARING LOCATIONS
S-12	TYPICAL SECTION THRU BUTT GLASS - MASONRY WALL
S-13	TYPICAL LINTEL ASSEMBLY
S-14	TYPICAL 6"X6" LANAI POST DETAIL
S-15	ROUND STEEL PIPE COLUMN DETAIL
S-16	WINDOW BUCK DETAIL
S-17	CAST-CRETE PRECAST LINTEL SAFE LOAD TABLE
S-18	FRAME WALL TO CONCRETE WALL CONNECTION
S-19	LANAI POST TO BEAM CONNECTION
S-20	TOP PLATE SPLICE DETAIL
S-21	BOND BEAM STEP
S-22	TYPICAL HORIZONTAL SECTION THRU WINDOW
S-23	GARAGE DOOR TRACK MOUNTING DETAIL



LENGTH	SAFE LOAD - POUNDS PER LINEAL FOOT	UNFILLED 8"X8"	FILLED 8"X8" FILLER W/1-45 T&B
4'-0" (12') PRECAST	2029	6039	
4'-0" (12') PRECAST	1651	6039	
3'-4" (10') PRECAST	1184	5057	
3'-0" (9') PRECAST	972	4144	
2'-8" (8') PRECAST	937	3396	
2'-4" (8') PRECAST	767	2610	
2'-0" (6') PRECAST	573	1818	
1'-8" (16") PRECAST	456	1541	
1'-4" (16") PRECAST	445	1365	
1'-0" (16") PRECAST	414	1254	
1'-0" (16") PRECAST	362	1076	
1'-0" (16") PRECAST	383	1003	
1'-0" (16") PRESTRESSED	N.R.	1370	
1'-0" (16") PRESTRESSED	N.R.	1250	
1'-0" (16") PRESTRESSED	N.R.	950	
1'-0" (16") PRESTRESSED	N.R.	750	
1'-0" (16") PRESTRESSED	N.R.	940	
1'-0" (16") PRESTRESSED	N.R.	870	
1'-0" (16") PRESTRESSED	N.R.	720	



TYPICAL DETAILS

BUILDER:

TO THE BEST OF THE ENGINEER'S KNOWLEDGE & BELIEF, THESE STRUCTURAL PLANS & SPECS. ARE IN ACCORDANCE WITH THE 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) AND THE 2015 INTERNATIONAL BUILDING CODE (IBC) FOR 1-1/2" MIN. WIND SPEED EXPOSURE "B". THIS DRAWING & DESIGN IS VALID FOR 12 MONTHS AFTER IT IS SIGNED & SEALED. PLANS ARE SIGNED & SEALED FOR THE STRUCTURAL PORTION OF THE DRAWING ONLY.

ALL TECH STRUCTURAL ENGINEERING
EN-9333
KELLY F. LYONS
2015 PEARS, AVE.
TAMPA, FL 33618
PHONE: 813.969.2099

MONOLITHIC - TYPICAL SINGLE STORY FOOTING DETAILS
SCALE: 1/2" = 1'-0"

DESIGNED BY: KELLY LYONS
DRAWN BY: KEL
DATE: 5-9-10
REVISED:

S2 MONO

