

DECK INSTALLATION SPEC SHEET (CONSTRUCTION PERMIT)

TO: ALL RESIDENTS AND CONTRACTORS
FROM: TED STOCKER, BUILDING INSPECTOR
RE: ISSUANCE OF PERMITS FOR DECK INSTALLATION

INSTALLATION OF ALL DECKS MUST FOLLOW ATTACHED SPEC

Before a permit is issued a drawing must be submitted to the Building Inspector 24 hours prior to the issuance of the permit. The Building Inspector / City Engineer will notify the resident/contractor when the permit has been approved. The drawing should include a plot survey of the property, the name of the resident, the name of the contractor, the address of the project and telephone numbers where resident/contractor can be reached during the day. The drawing must include the following:

- Show top and side views
- Show type of material used
- Show size and location of:
 - Footings (Minimum of thirty (30) inches)
 - Support posts
 - Floor Joists
 - Decking
 - How attached to house
 - Railings
 - Steps (Rise and Tread)
 - Location of power lines. Must be located a minimum of ten (10) feet above floor of deck.

PERMIT FEES FOR DECK INSTALLATION ARE BASED ON THE PRICE OF CONSTRUCTION

PIER HOLES MUST BE INSPECTED BEFORE CONCRETE IS POURED

If you have any questions, please contact the Building Department at 314-867-0076. The Inspector is usually in the office 8:30-9:00 am, 12:10-1:50pm and 4:20-4:30pm.

To schedule an inspection contact the Building Department, 314-867-0076 for an appointment.

INSPECTIONS REQUIRED

- Depth of post holes before setting post/piers in concrete
- Framing of deck/railing/steps (all equal risers)
- Final after completion of installation

Call for inspection the day before or the morning of the day work begins.

MATERIAL SPECIFICATIONS

FABRIC: 9 or 11 gauge two (2) inch mesh chain link, maximum four (4) feet high

POSTS & RAILS:

	OUTSIDE DIAMETER	MIN. WALL THICKNESS	CONCRETE		POST DEPTH BELOW GRADE
			DEPTH	WIDTH	
END & GATEPOST	1 7/8"	.065 - .069	30"	8"	18"
LINE POST	1 5/8"	.065 - .069	24"	6"	24"
BRACES AND TOP RAIL	1 3/8"	.065 - .069			

All posts shall be:

- capped to avoid water inside
- minimum ten (10) feet apart, set plumb and in line just inside the property line so that the fabric is on the property line

CONCRETE:

- shall be minimum four (4) sack mix
- shall be crowned around the post to cause water to shed
- crown to be hidden 2" under grade is optional

TOP RAIL / GUARD RAIL:

- shall be installed to support the end posts
- Any change of direction of thirty (30) degree shall require an end post.
- Any deck over thirty (30) inches above grade is required to have a thirty-six (36) inch guardrail with openings less than four (4) inches.
- Guardrails to stairs can be thirty-four (34) inches in height when measured from the leading edge of the tread with openings of four & three-quarters (4 ¾) inches and the six (6) inch opening formed by steps.

FABRIC

- Shall be stretched tight from terminal posts attached with wire ties approximately twelve (12) inches apart.
- The fabric shall be fastened to each end post independently by a tension bar and bands twelve (12") inches apart.
- A bottom tension wire is required and to be interwoven or fastened to the fence every twenty-four (24") inches with hog rings. (Commercial only)

FLOOR FRAMING

- Live load of 40 lbs and dead load of 10 lbs.

- Verify the span of the floor joists.
- Ledger connection to house with the proper size and spacing of fasteners. Provide $\frac{1}{2}$ x 4 inch lag with washers every sixteen (16) inches.
- Approved hangers used.
- Cantilever joists with proper back span 2:1
- Proper connection to supporting beam. Provide three (3) nails per joist or hurricane strap.

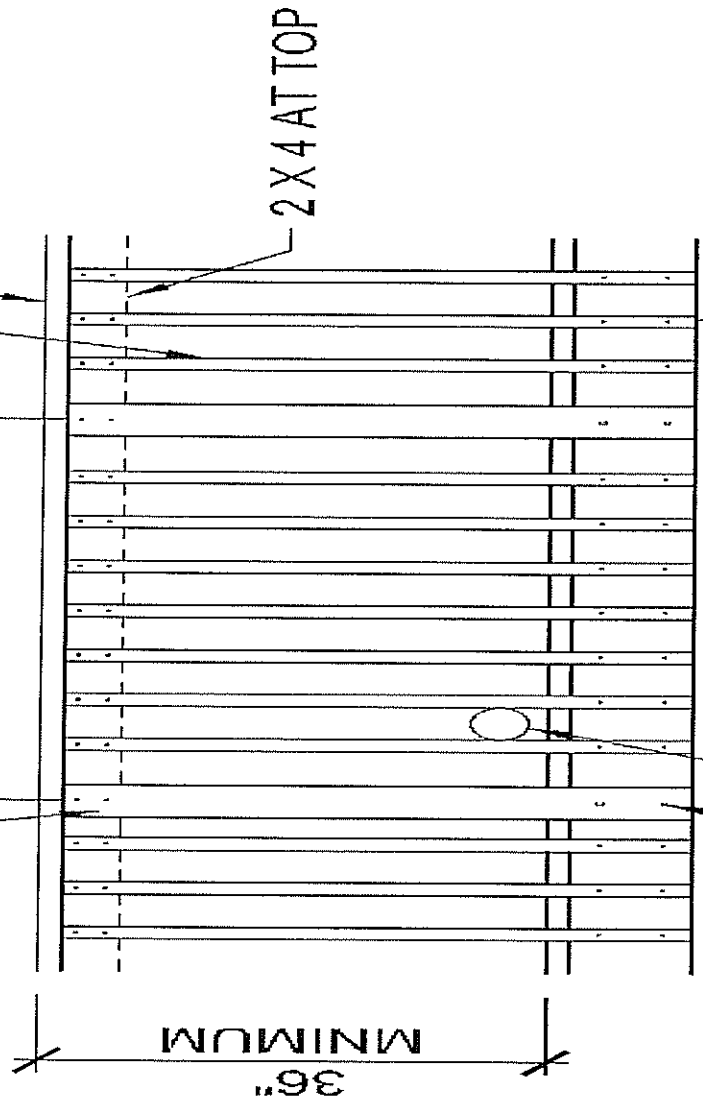
STAIRS

- Measure the rise and tread lengths. Seven & three-fourths ($7 \frac{3}{4}$) inch maximum riser height and ten (10) inch minimum tread.
- All equal risers
- Verify three (3) stringers are used.
- Guardrail height and graspable handrail.

4 X 4 POST, TYP,
DO NOT NOTCH

4'-0" MAX SPACING

2 X 2 PICKET, TYP,
2 X 6 OR 5/4 BOARD
RAIL CAP

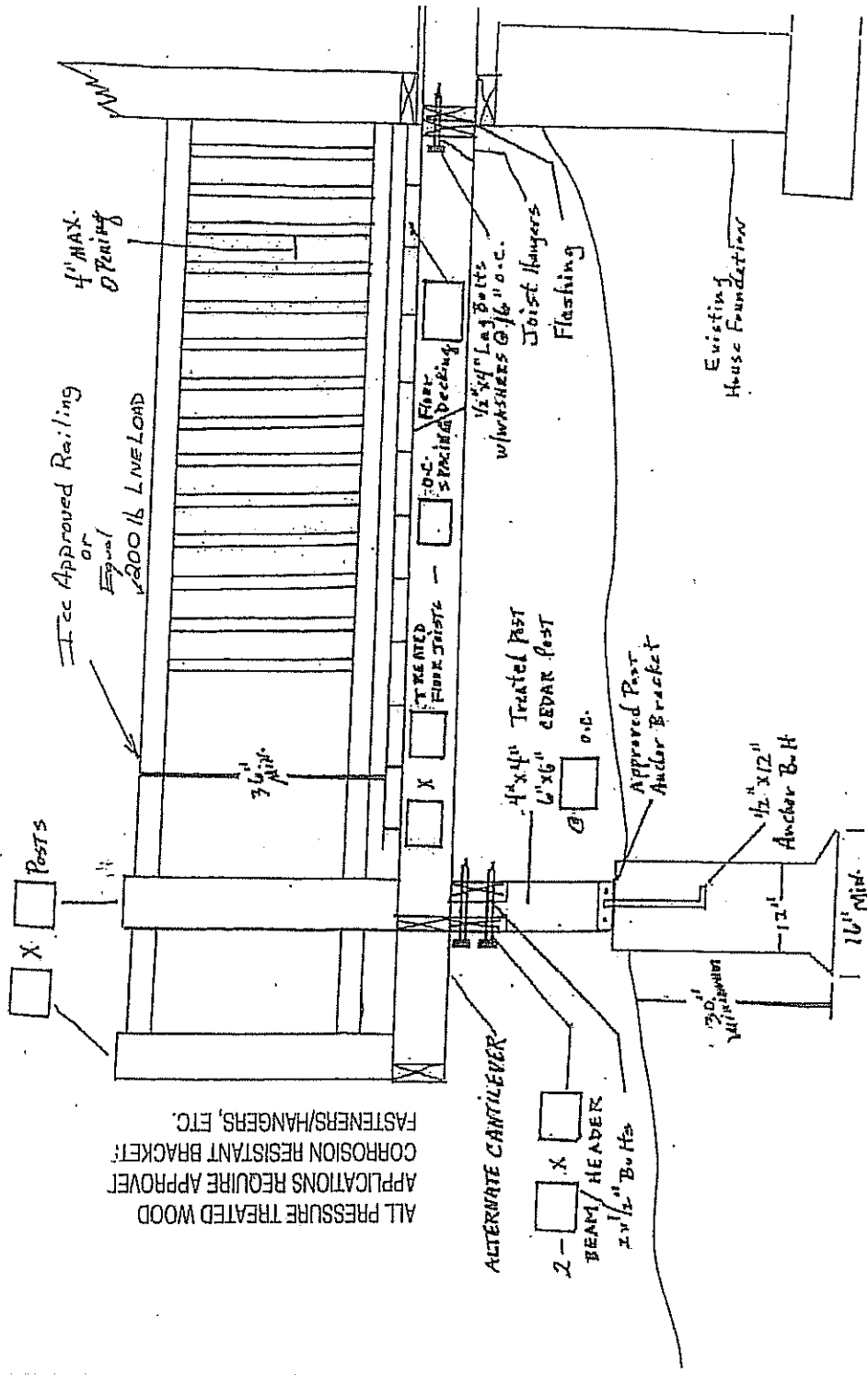


2 X 4 AT TOP

ATTACH PICKETS AT TOP
AND BOTTOM WITH
2- #8 SCREWS OR 2- 8d
SPIRAL SHANK NAILS EACH.

OPENINGS SHALL NOT
ALLOW THE PASSAGE
OF A 4" DIA SPHERE

SEE GUARD POST
ATTACHMENT DETAILS



ALL PRESSURE TREATED WOOD APPLICATIONS REQUIRE APPROVED CORROSION RESISTANT BRACKET FASTENERS/HANGERS, ETC.

ALTERNATE CANTILEVER

2 - X BEAM/HEADER 2x1/2" Bo Hts

30" MINIMUM

12"

10" MIN.

Approved Post Anchor Bracket

1/2" x 12" Anchor B-H

4" x 4" Treated Post 6" x 6" CEDAR Post

O.D.

TREATED FLOOR JOISTS

30" O.C. FLOOR JOISTS

30" O.C. STAGING DECKING

1/2" x 4" Lag Bolts with Washers @ 16" o.c.

Jobist Hangers

Flashing

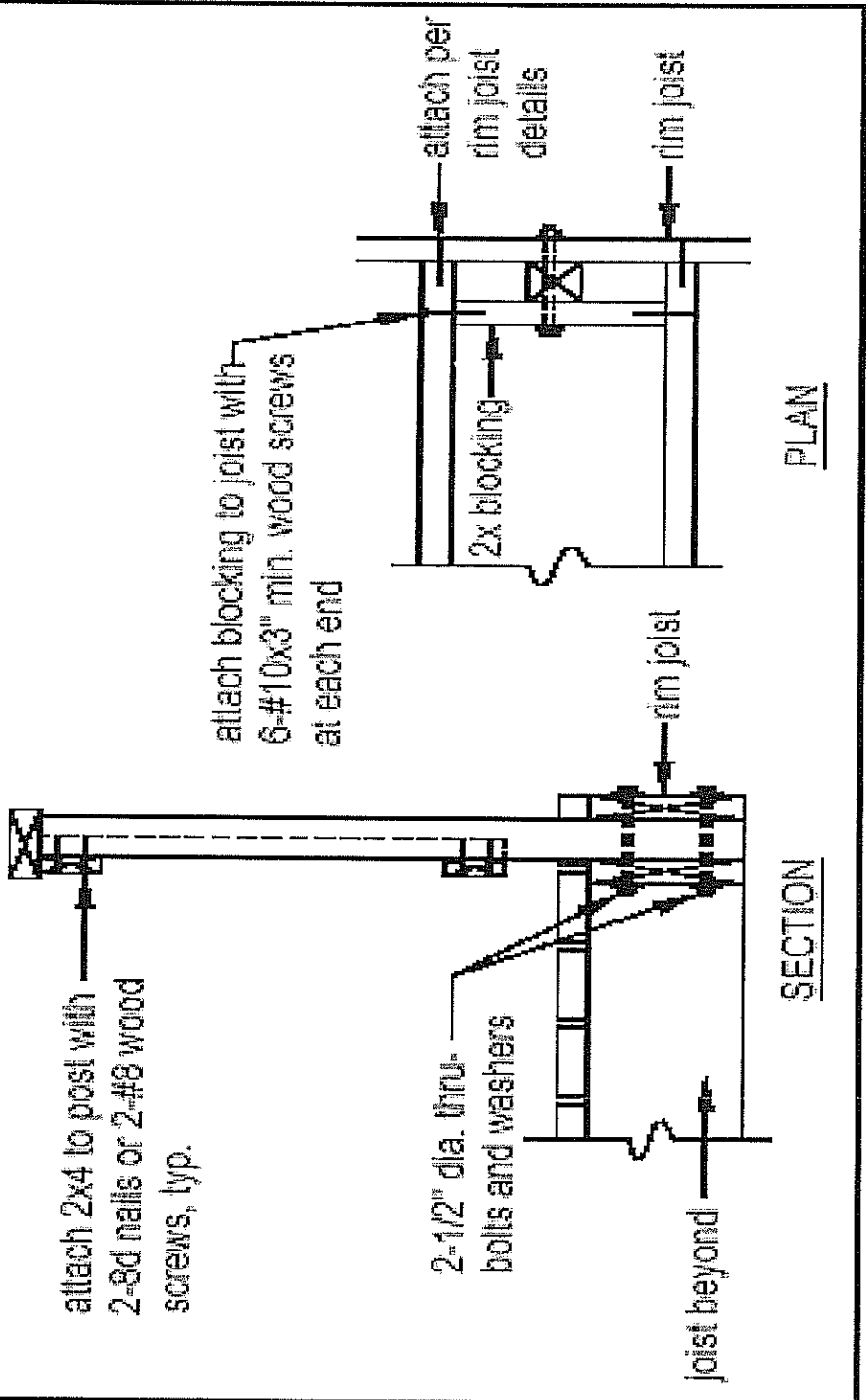
Existing House Foundation

Ice Approved Railing or Equal 2000 lb LINE LOAD

4" MAX. O'RAILING

X Posts

30" MIN.



attach 2x4 to post with
2-8d nails or 2-#8 wood
screws, typ.

attach blocking to joist with
6-#10x3" min. wood screws
at each end

2-1/2" dia. thru-
bolts and washers

attach per
rim joist
details

joist beyond

SECTION

PLAN



Guardrail Live Load Requirements

