RDINANCE NO. 24

This is the comprehensive Building Code of the

cation, on file with a in the The said copy of position of the office of f plans of the d attested statement an lans and specifications the Building Inspector detailed shall be appli kept

Sec. 4. Any fastatement submitted in ticle shall be deemed 1 false per jury alse swearing in a material point in pursuance of the provisions of this perjury and shall be punishable as this arsuch.

Sec. 5. All approvals of applications, plans, specifications, detail drawings and amendments thereto, shall expire by limitation 6 months from the date of the original approval; but shall not apply when work thereunder has been begun and carried on with reasonable continuity within 6 months from the original application. It shall be the duty of the Building Inspector to approve or reject any plan filed with him pursuant to the provisions of this article within a reasonable time.

this sion Sec. 6. ordinance thereof. The shall invalidity of not invalidate any section any other section or provi

Sec. 7. When the Building Inspector shal plans and specifications as approved, the apput shall pay to the Town of Golden Beach, before nal permit, inspection fees as follows, based one work to be performed: shall have the applicant efore issuan sed on the c nans e stamped t for per-ance of cost of

More than a loop with the loop than a loop More More e than \$100.00 and less than \$100 e than \$1000.00 and less than \$500 e than \$5000.00 and less than \$10 e than \$10,000.00 and less than \$10 e than \$15,000.00 and less than \$ e than \$25,000.00 the fee shall b 1000.00 or fraction thereof. than than n \$1000.00 n \$5000.00 m \$10,000.00 than \$15,000.00 than \$25,000.00 nall be \$1.00 per 15.00 25.00 25.00

ARTICLE 5

DEFINITIONS

trued following to have the terms whe when using here used gi ven 'n this of them ordinan 5 ಧ

space, Section 1.
adjacent to
sements. AREAWAY. An areaway is for lighting an open, ventil sub-surface ating cella

more than five one-half (\frac{1}{2}) below (5) feet above the Þ A basement the level level of t the 0 10 15 15 15 15 a story I curb. partly b, but m ou , but no

line. height Sec. œ shall not be ca building. counted as that is e entirely below in determining dano

cement and sand it o exceed three I be made of one part of the par cement MORTAR. Cement of in the proportions of one ee parts sand by volume. Ce part of cement, one part ce parts of sand to each. Cement mortar shall be made of one part of cement and me. Cement Lime Mortar sh part of slaked lime and no shall not

other cated Court the fo Sec. 5. COURT. An open, unobstructed, unoccupied space than a yard, on the same lot on which the building is losated. A court entirely surrounded by the building is an "Inner ourt." A court bounded on three sides by the building and on the fourth side by the lot line is a "Lot-line Court"; a court, it least one side of which is open to a yard, alley or street is in "Outer Court". An open, same lot

shall be, a . cour rt shall every po 11 not 1 be covered, by the βD ground to ror skylight, o the sky, tud-

of the principal only. In case o tablished grade o LOT GRADE. An established grade at 1 front of the building, fronting on one of a building fronting on two streets, on the highest street shall be taken. one the center ne street , the es-

tanks or, other material storm sewers

Sec. 7. DOWNSPOUT. A pipe of metal to conduct rain water from roofs to ground, Sec. 8. DWEILING. A residence building designed for, or used as, the home or residence of not more than one separate and distinct family.

ad: The weight of walls, framing, contents, and all permanent con-

floors, roofs, struction. LOAD. Dead load: tanks with their con

Sec. 10. FIBRE PLASTER BOARD. A board consisting of any intimate mixture of gypsum plaster composition and a fibrous binding material.

Sec. 11. curb level or FOUNDATION WALL. An nearest tier of beams Any ੦ wall or to that r pier, level.

Sec. 12. GARAGE. A garage is (a) that portion of a structure in which a motor vehicle containing volatile inflammable liquid in its fuel storage tank is stored, housed or kept. (b) all that portion of such structure that is on, above or below the space mentioned in (a) which is not separated therefrom by tight, unpierced firewalls and fireproof floors.

will not ignite INCOMBUSTIBLE. Material or construction which or burn when subjected to fire.

sec. 14. ten (10) feet ACCESSORY BUILDING. Al All structures not exceed-in 150 square feet in area.

Sec. 15. WALL PANEL WALL: An exterior in a skeleton structure built between columns or ported at each story. non-bearing wall piers and sup-

above the PARAPET WALL: That portion of any wall which roof line and bears no load except as it may a tank.

extends a serve to support Ø RETAINING WALL: One co-to resist lateral thrust constructed to support a

of earth, ဌ A wall which supports any load

its own BEARING WALL:

FIRE WALL: 1 A wall built the spread (for the purpose of of fire.

Sec. 16. SHAFT. Any vertical enclosed space within a building, which extends from its lowest level through the entire height of building and is open to the sky, used for air, light, elevator, dumb-waiter, or any other purpose not otherwise hereinafter prohibited.

Sec. 17. SHED. A roofed structure open sides which does not exceed 16 feet in height, or square feet in area. on one or more more than 500

SKYLIGHT. Any the admission of light. enclosure placed above

Sec. 18. vapor. This shall

Sec. 19. VOLATILE INFLAMMABLE will emit inflammable

completion of the new building, or the expiration of the permit. erected without a permit, builders, mixer-stands, Temporary one-story frame buildings, for use platforms and builders' apparatus may be but shall immediately be razed upon

fire or otherwise, shall be made in conformity with the provior additions thereto, whether such repairs are made necessary by sions of this ordinance. Any repairs or renewals to an existing building,

sary to remove duty it shall be shall neglect or fail so to do within 48 hours after the receipt of notice from the Building Inspector, then moved from the lot or adjoining lots, whose duty it was to remove contractor or owner of diately becomes a lien upon the said property. such labor and the Building Inspector may enter upon the premises and employ building, structure, addition or repairs, all debris shall be resuch debris, at the cost and expense of the party take such steps as, in his Within 15 days after the completion of a new same. same. If the This cost and expense immealleys or streets, by the person or judgment, may be necespersons whose

RTICLE 3

ENALTY

building or alter lation of any of the provisions of tain a building or structure or any of its appurtenances in viopermit may have been issued for in any respect any building or remove or main-No person shall construct any part of any the construction of a building this ordinance, notwithstanding

PRESCRIBING RULES AND REGULATIONS FOR THE ERECPRESCRIBING RULES AND REGULATION OF BUILDINGS
PRESCRIBING RULES AND REGULATION OF BUILDINGS
PRESCRIBING RULES AND DEMOLITION OF BUILDING FOR THE SUBMISSION OF PLANS
TION, REPAIR, REMOVAL OR DEMOLITION OF PLANS
EMECTION, HEPAIR, REMOVAL OR DEMOLITION OF BUILDINGS; PROVIDING FOR A BOND INSURING CIEAN-UP AFTER
CONSTRUCTION OR REPAIR; PRESCRIBING RULES AND
LATIONS AS TO PLUMBING DONE WITHIN SAID TOWN, THE
CUALIFICATION OF PLUMBERS; PRESCRIBING RULES AND
REGULATIONS WITH REFERENCE TO THE INSTALLATION OF
PENALTIES FOR FAILURE TO COMPLY WITH THE PROVISIONS
FOR HEATING AND LIGHTING BUILDINGS; PRESCRIBING
OF THIS ORDINANCE AND REPEALING ALL ORDINANCES IN
CONFILICT HERETO.

ENACTED BY THE TOWN COUNCIL OF 田田 TOWN 읶 GOLDEN BEACH, FIORIDA:

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REQUIREMENTS

Section 1. No wall, structure, building or part thereof, shall hereafter be built or constructed nor shall the plumbing or wiring of any building, structure or premises be installed or altered, except in conformity with the provisions of this ordinance.

Sec. 2. No building already erected, or hereafter to be erected, shall be razed, altered, moved or built upon, in any manner that would be in violation of any of the provisions of this ordinance, or the approval issued thereunder.

Sec. 3. Before the demolition or removal of any building or structure is begun, a verified application shall be prepared by the owner, architect, builder or contractor, on appropriate blanks furnished by the Building Inspector, containing a statement of the facts in relation thereto, as to the ownership and location thereoforts in relation shall be filed with the Building Inspector and a The application shall be filed with the Building Inspector and a written permit obtained from him, as hereinbefore provided. thereof

Sec. 4. Ordinary repairs on buildings or structures, the cost of which shall not exceed \$100.00, may be made without notice to the Building Inspector.

ALTERED, REPAIRED 윴 MOVED

section 1. No building or structure shall be moved until a permit has been obtained from the Building Inspector. Detail plans of the new location and the streets to be used for moving the building shall be filed with the Building Inspector. Sufficient bond shall be given to insure the Town against any damages to streets or other Town property, that might be brought about by the removal of the building or structure, before permission is given to remove any building.

ARTICLE 6.

CLASSIFICATION OF CONSTRUCTION

masonry walls, with floors and partitions of wood, joist and stud construction. The supporting posts and girders may be of wood, metal or concrete.

Sec. 2. FIRE-PROOF CONSTRUCTION. Buildings of masonry, cement, or reinforced concrete, constructed in accordance with Articles 15 to 19 inclusive, shall be considered fire-proof.

RTICLE 7

WEIGHT OF MATERIALS

weight of various materials shall be assumed to ЭĠ 83

Pounds per Cubic Foot

| Douglas Fir and Cypress | | Maple | Grade II | | Pine | Spruve and Hemlock | | Sandstone | Limestone | Bluestone, and Marble | | Pressed. Brick, | **** | ı |
|-------------------------|------|----------------------|------------|-------------|-------------|--------------------|-----|-----------|-----------|-----------------------|-----|-----------------|------|---|
| Ů | 1 (£ | 4, <i>2</i> , O R | y C ≥ C | 11 6 0 n | /3 ← - C | 2 C | 9 C | 4 R | n C | , C | 2 0 |) () () | 0 C |) |

ARTICLE 8

ERMISSIBLE WORKING STRESSES

ermined by the h of sectional Section 1. The safe carrying capacity of the various ma-of construction, when not otherwise specified, shall be ned by the following working stresses in pounds per square sectional area:

EXTREME FIBRE STRESS

 $\alpha \vdash$ unsupported length in ideameter or least side inches. e in inches.

Where a moderate increase in deflection, after first placement of the load, is not objectionable, the compression and extreme fibre stresses here given may be increased ten per cent. (10%).

Stresses for timbers, sub ject to vibration and impact, should

not be thus increased.

in this Ordinance, shall terials latest specifications of All material used in building construction and referred the American Society of Testing Mabe qualified to meet the standard and

RH Н a Н 띠 ဏ

EXCAVATION

Section 1. The person or persons of properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the beautiful to be made for a building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have the same properly guarded and the building shall have t protected. a sufficient retaining wall to permanently support the adjoining earth. · pedoo erty owners and ing same shall report the fact in writing fion, Such retaining wall shall extend the level of Whenever any excavation is to be to the The person or persons causing any excavation and erect masonry or steel construction or the adjoining earth Building Inspector. between the building line made, and shall be properly to any adjoining propthe person caus-

sec. 2. and curb, there

proper guard-rail on each side,

shall be constructed a substantial foot bridge,

for the protection of the

Over all excavations,

Engineer. of piles, driven by No drop hammers shall be p but all piles, including con hammers under steam pressure concrete tted ted in piles,

ARTICLE 11

CONCRETE PILES

filled with concrete, shall have a minimum inside diameter of 10 inches and the thickness of the metal tube not less than 3/8 inch. The length shall not exceed 40 times the inside diameter. The ends of the tubes shall be faced perpendicular to its axis. When driven to rock, the load on such piles shall not exceed 500 pounds per square inch on the concrete and 7,500 pounds per square inch on the steel. In computing the effective area of the concrete pile the steel tube shall not be taken into consideration. Concrete mixture for concrete piles to be not less than one part of cement to 2½ parts of sand and 3½ parts of rock. Rock to be equal to hardest Ojus or canal bank, washed and screened

Sec. 2. Concrete piles moulded and cured before driving shall be provided with not less than $2\frac{1}{2}\%$, nor more than $4\frac{1}{2}\%$ longitudinal reinforcement, with bands or hoops not less than 3/8 inch in diameter, and spaced not farther apart than 6 inches. The top of the piles shall be protected with a cushion cap of approved design and, when driven to rock, the foot shall be provided with a metal shoe having square bearing and shall be at least 14 days old before driving.

ground, shall not exceed twenty (in length. Piles driven out of clear space between the heads of than 18 inches. 000 (20) for loose wet so (20) times the i plumb shall be concrete piles piles soil, or e inside of oil, or filled inside diameter condemned. The shall ton less

ARTICLE 12

FOUNDATIONS

Section 1. The footings for foundation walls, piers and columns shall be constructed of plain concrete, reinforced concrete or of steel grillage beams resting on a bed of concrete. Concrete footings for one-story buildings shall be not less than 24" wide and 12" in depth. For two-story buildings they shall be not less than 50" wide and 12" in depth. Concrete footings shall be reinforced with not less than four one-half inch square steel rods.

eight shall shall level walls inches extend be not shall foundation walls shall be of concrete, not less than es in thickness, cast integral with the footing and and to the under side of the first floor joist, which ot less than twelve inches above the natural ground or buildings two stories or more in height, foundation loe not less than twelve inches in thickness.

they sustain per unit of area shall be as a sible and the stresses shall conform to the Ordinance. The dead loads carried by the the actual weight of the super-structure at the bottom of the footing. All tanks or a liquids shall be figured as being full. built-in structures shall be considered parabolity. n per sti tanks or g full. \$0 \$0 \$0 be as nearly uniform as posto the requirement of this to the footings shall include ure and foundations down to sor other receptacles for l. All vaults or similared parts of the building designed the as nearly ss pos-f this include

to Ф О The live es th edz on column live load or footings shall lowest tier of be assumed columns.

ch Ch portion Sec. 3. In no case ortion of any footing, loads, exceed the safe the footing rests. shall the load per square foot, undue to the combined dead, live and sustaining power of the soil upon

(22)Sec. thick, Concrete footings shall be not : Less e 24. than twelve

the building are lated piers may the building. 5 are If the nature of the such as to make it no be used instead of a the ground and the character of necessary or advisable, iso-a continuous wall to support

Sec. 6. Grillage beams shall be united by bolts and separators and the grillage filled solid with concrete. All metal which forms parts of any footing or foundation shall be protected from rust by a wash of rich Portland cement grout, or by the use of other approved coating, and shall be entirely encased with at least 4 inches of concrete.

Sec. 7. The sahall be determined by not exceed the values safe bearing cap by borings and, i s given with the capacity of different, in the absence of the following tables: tests, shall

Filled land, per square foot Natural sand formation, per square foot 2 tons.

ARTICLE 13

Schedule for reinforced concrete walls ၀ဌ

| ONDH | Number Stories |
|------|-------------------|
| 10, | ta ct |
| 0,0 | 2nd |
| 8, | 3rd |
| | |

Sec. 2. Schedule for classification in Article brick and cement block walls 15, Paragraph 1: S S

| るのて | Number Stories |
|-------------|-------------------|
| 75°0°0° | lst |
| <u></u> α α | 2nd |
| ω, | 3rd |

wall shall be of greater than fourteen feet between horizontal supports and that the entire height of any eight inch wall shall supports and twenty-four feet and further provided, that no part not exceed twenty-four feet and further provided, that no part feet between horizontal supports, and that the entire height of feet between horizontal supports, and that the entire height of ever the limits above stated are exceeded, said wall or wall ever the limits above stated are exceeded, said wall or wall even feet between centers; the least sectional dimension of which teen feet between centers; the least sectional dimension of which then the less than four inches greater than the thickness of the wall and the other section of dimension shall not be less than twenty-two inches. Suitable steel reinforced columns may be used in place of the piers, subject to the approval of the than twenty-two inches. be used in place of the Building Inspector.

top story walls, and the roof at all point greater height than ably braced, in a mand all such walls s, and shall project not less than 24 inches above points. Where such parapet walls project to a than 24 inches above the roof, they shall be suita a manner to be approved by the Building Inspector alls shall be properly coped.

terial, with to not be less the ness for each 5 the than two Fire walls shall be built of fire resisting maexception of concrete block. Fire walls shall 12 inches thick and increasing 4 inches in thick-stories or fraction thereof below.

height of t brick and it shall b brick of e heading c bond, in brick and Where diagonal time sec. 6. In brick walls every sixth course shall be a cond, in which case the headers of every third course shall be full rick and bonded into the backing. Where running bond is used, t shall be bonded into the backing by cutting the corners of every rick of every sixth course of face brick and putting a row of liagonal headers behind the same, and suitable metal anchors shall be used in the bonding, at intervals not exceeding 5 feet. There face brick is used of a different thickness from the brick used for backing, the course of the exterior brickwork shall be rought to a level bed at intervals of not more than 8 courses in eight of the face brick, and the face brick shall be properly ied to the backing by a full heading course of the face brick or the backing and shall in no case be laid after the back-np is in place. otherplace lemish shall every full

sec. 7. When walls of hollow blocks are veneered, the facevery 16 inches or be attached to the backing with a row of headers every 16 inches or be attached to backing with approved galvanized metal wall ties, bedded with mortar joints. Such ties shall not be spaced farther apart on centers than 16 inches vertically and 2 ft. horizontally. Such veneering shall not be considered as part of the required thickness of the wall. Brick facing or veneering may, however, be considered as part of a hollow terra cotta or concrete wall (or vice versa), provided the veneering is bonded at least 4 inches into the wall at intervals not exceeding six courses of brick. When veneering is used, special care shall be taken to fill all joints flush with mortar around wall openings. The walls of each story shall be built up the full thickness of walls of above.

Sec. 8. No pipe chases shall extend into than one-third (1/5) of its required thickness. chase shall exceed 4 feet in length in any wall. be wider than 12 inches in any bearing wall. any wall more No horizontal No chase shall

Chases tile, s other n tance shall Sec. 9. No recess in any wall shall be made of six feet from any other recess in the same not be permitted within the required area of s or recesses in walls built of hollow cement shall not be formed by cutting of blocks or t method which would impair the strength of the made me wall. on of any pier. It blocks or tile or by the wall. within a dis wall. Chases any hollow

carrying cement Sec. J 97 Cul All c hollow gular bo puod w tile w bond to s or re walls o top (recesses shall b ls by using hard p of all chases o of by ð, ಭ burned brick recesses. all gand

Sec. 11. Openings for ave arches of masonry or linte hich shall have a bearing at en the wall. Tie-rods shall bary to resist the thrust. gs for all doors, lintels of reing at end of not shall be used in reinforced less all a windows or vents
iforced concrete or
less than eight in
all arches where n inches e necesshall r metal

structure, shall be not less than 4 inches thick. In stone ashlar, each stone shall have a reasonable uniform, thickness but all stones need not necessarily be the same thickness but into the backing or securely anchored to the backing with galinches lineal length of course, at least one for each twenty-four (24") facing, shall conform to the wall thickness required by this Ordinance. Where every alternate course of facing, at least 4 inches, the ashlar may be counted as part of the thickness of the wall. No wall faced with ashlar shall be less than 12 inches thick.

ARTICLE 14.

BUILDING BLOCKS

facture of suitable may 50% of the mensi Section 1.
e of concrete
le material.
the cubical c Portland cement only shall be used in the manu-e blocks and the course aggregate shall be of In no case shall the cellular space exceed content of the block figured to its outside di-

be marked or branded for identification and such marks or brands shall be registered with the Building Inspector. Concrete blocks shall be manufactured of concrete, the proportions of sand and cement to be used in the concrete block shall not be less than one part of cement and not more than 6 parts sand. Concrete blocks shall not be used until they have attained an age of 28 days. The average compressive strength for concrete blocks, when tested with the cells vertical, shall be not less than 800 lbs. per square inch. The allowable working loads on all concrete blocks shall not exceed (1/8) of the average crushing strength of the block when laid in lime-cement mortar. The average amount of water absorbed in 48 hours by 3 units 28 days old shall not exceed 10% of the weight of the dry units. Where concrete blocks are used in the construction of framing, timbers shall bear on one course of header brick. In lieu of the foregoing, the concrete block may be filled solidly with concrete or a continuous reinforcement made, constructed on all bearing walls. Sec. E be marked or shall be

Sec. 5. In buildings two stories or more in height, all concrete block construction shall have concrete corner columns as a continuous concrete wall tie beam, not less than eight by twelfinches or its equivalent in size, supporting all floor and ceiling joists above the first floor. y twelve

tinches in size shall be tinuous concrete wall to parapet wall, where it parapet coping which shiftour square inches. The sixteen feet, center to A concrete column not less tall be cast as an integral pwall tie beam and extended tre it shall be tied into a cich shall contain an area of o ct These center. columns an area of shall be ss than eight by twelve all part of the upper coned to the top of the a continuous concrete a of not less than sixtybe spaced not more than

referred to s square rods, All concrete columns, beams shall be reinforced with not less, or its equivalent well anchored s than at al and coping herein in two half-inch

ARTICLE 15

ERAL REQUIREMENT FOR FIREPROOF BUILDINGS

Section 1. shall The o de space solidly between filled the with floor concrete arches S S S specified

made flush in Article wi th 16 filling beneath wooden flooring shall under side of the floor boards.

approved incombustible material. resistive enclosures and shall have closed and separated ings shall be of approved incombustible material. from the rest of the floor space by fireshafts and public hallways The stairs and stairway landfloor surfaces and rim of shall

3 ft. high, proof material, may be of wood. and casings; also interior finish when backed solidly with fireand windows when not otherwise specified, fied, with their frames, when entirely embedded flooring and interior doors and windows, when not otherwise speciwooden floor sleepers, grounds, Sec. 5. No woodwork or outer the construction of any fireproof building, be used in the construction of any fireproof building, O. wooden ceilings, shall not in incombustible material also the finish trim and casings; also interior doors Wooden wainscoting more bucks and nailing blocks with their frames, be permitted.

adjoining property in which case metal or fireproof doors and windows may be required by the Building Inspector. fireproof Sec. 4. Wood exterior doors and windows may be used in of construction except in cases of unusual fire risk to

top a than ns in Segmental arches shall lottom faces to carry and inches. The tile the qepth. have sufficient depth be the load to be imposed, e shall have at least two d tud f tween the but not cellular

any] side than ches Flat arches ; s for each foot of the of the beams. and a finches, and spaces inches, an aces in the depth the shall have a depth of not less of span between the beams, the depth of tile that projects be The total depth shall in no the tile shall have not less in the tile shall have not less. t less than 1 3/4 int, this not to include
ts below the under
in no case be less
less than three cellu-4°C

The shells of arch blocks shall be not less than 3/4 thickness, and the webs shall be not less than 5/8 inch thickness. Every arch block shall have at least one contil vertical internal web for each 4 inches in width. There she rounded fillets at all internal intersections. The skew backs of all hollow tile arches shall be of such form and station as to accurately fit the beams and properly receive the thrust of the arches, and shall have shells at least 1 inch thick, and webs not less than 3/4 inch thick. s than 5/8 inch in one continuous There shall skewd sec-

The safe working termined by design. Ill pression in terra cotta per square inch on net e working load on terra (sign. The allowable externa cotta floor tile shaln on net section. rra cotta e extreme shall be arches fibre s taken s s shall be de-stress in com-n as 500 pounds

Sec. 6. concrete shall requirements 0 ъe this All All segmental designed and his section an al arches or nd construct and part of or flat slabs of reinforced octed in accordance with the of Article 8.

gypsum work of less th psum blocks may be used for fireproofing between the strk of roof construction; but such tile or blocks shall so than 3 inches thick, and the supporting steel member spaced not more than 25 inches on centers. When solitile are properly reinforced to resist the bending stresteel supporting members may be spaced not to exceed es apart. The bottom flanges of steel members shall to cted as elsewhere provided. l members shall nen solid blocks ling stresses, exceed 30 inor solid steel frame-ll not be

ARTICLE 17.

FIREPROOFING STRUCTURAL MEMBERS

Section 1. All columns which support steel girders can support floors only, shall be protected against corrosion by against moisture and fire by a casing of masonry, which shall surfaces; all to be well bonded into the masonry of the enclosing walls. walls and on all enclos shall Ø O,

cement mortar and the same masonry protection as required for wall columns, all to be securely tied and bonded; but the extreme outer edge of the flanges of beams, or plates or angles connected to the beams may project within 2 inches of the outsid surface of such casing. The inside surfaces of the girders shall be similarly protected by masonry, or if projecting inside the walls, they shall be protected by concrete, terra cotta or other approved fireproof material not less than 2 inches thick. the ex-r angles the outside

herein crete, or resi Sec. 3. All metal sist stresses, other to paragraphs, shall have a specified. The property terra cotta or gypsu all have a prot he protecting n gypsum block. than those those provided protection of material Terra members shall cotta which two if for by the two if fireproofing as shall be brick, contact, be solid pre-

morrow and shall be porous or semi-porous, neither shells nor webs shall be less than 5/8 inch thick; gypsum blocks shall be solid and of quality approved by the Building Inspector. Plaster shall not be considered a part of any required fireproofing for metal structural members except where specifically mentioned as such.

0 0 ct ct in • 4. All bricks Fortland cement m mortar, except that fireproofing gypsum blocks shall may

gypsum mortar

Sec. 5. (a) all points to a thitinuous from the bouter edges of lug project to within lugs, (a) The protection slathickness of not less be base to the top of the lugs, brackets and similars. base to the t lugs, brackets in l inch of th ot less than 3 inches and be co op of the column. The extremand similar supporting metal may protection.

(b). If brick or blocks are used for columns, they shall be accurately fitted, laid with and all spaces between the outside layer and the met filled with masonry; or concrete fillings may be use between the metal and the protecting cases shall be d for fireproofing with broken joints e metal solidly e used. No voids l be permitted.

- (c) Galvanized steel wire not smaller to guage, shall be securely wrapped around block column so that every block is crossed at least once by a wire wire shall not be wound spirally around the column but to be a separate unit and shall be twisted to otherwise securely bound. Other equivalent anchorage notherwise securely bound. Other equivalent anchorage for this purpose shall exceed 12 inches in vertical dimensional dimensional shall exceed 12 inches in vertical dimensional dimensional shall exceed 12 inches in vertical dimensional dimensi age may be to block used a dimension. tightly or e may be each coverings The used
- a coat of plication 0 p t (d) Columns least 1 inch of lthe fireproofing located i in damp d cement places mortar shall i receive e ap-
- (e) filled with concrete of fireproofing. Columns , shall | ტ ე made protected by or wrought iron y at least 1 1/2 pipe inches
- to damage proofing s less than ing, (f) Where t ge from trucking or I g shall be jacketed (an 3 feet from the fi the fireproofing of columns handling of merchandise, the on the outside for a height floor with metal or other app nns is export the firecover-
- Sec. 6. (a) The protection of the webs and bottom flanges of girders, and all members of trusses shall have a thickness of not less than 2 inches at all points. The protection of the webs and bottom flanges of beams, lintels, and all other structural members shall not be less than 1 1/2 inches at any point.
- (b) If hollow terra cotta tile be used for protection, the lower flanges of beams and similar members shall be encased either by lugs which form part of the skewbacks and extend around the flanges meeting at the middle, or by tile slabs held in position by dove-tailed lugs projecting from the skewbacks. In either case, care shall be taken to insure that all joints be solidly filled with mortar.
- Sec. 7. Concrete protection for all structural members shall be held in position by suitably designed interior steel anchors hooked securely around the flanges or angles of the members at intervals not exceeding 8 inches; these anchors shall be not less than 1/8 inch in thickness if flat or 1/10 inch in diameter if of wire, and shall be located at a distance not less than 5/4 inch, nor more than 1 inch from the outside surface. Provision

shall be made to prevents being deposited. We exceeds 6 inches, the we tection shall be not le less wire When displacement en the flange fre used for an s than 1/8 inc anchoring the inch dismeter. of anchors width of st steel me eel members concrete pr concrete -orq

Sec. 8. Steel angle or channel struts, or other tural framing not elsewhere provided for, which are use support in any wall, partition, or other construction, fireproofed as required in this section. other struc-e used for ion, shall be <mark>Ф</mark>,

one less Sec. 9. Metal fronts story high shall be backed than 8 inches thick. g ďn ro d exterior of filled with buildings masonry no gs over

ARTICLE 18.

MISCELLANEOUS FIREPROOFING PROVISIONS

aged as shall OVET Section 1. Defective or damaged fireproofing materials not be used. All fireproof construction injured or damaged being erected, shall be repaired to the satisfaction after being erected, shall be repaired to finish is placed be building Inspector before any filling or finish is placed

shall prote Sec. 2.

l be incased

ection of col columns No pipes, wires, cables, within or embedded in the other structural or other ne required members. materials d fireproof

supported by h struction in a section and we flecting more All metal hangers or clamps attache an approved manner. Suc weight as will support the than 1-30 inch per foot lath and plaster ceilings shall be amps attached to the floor or roof conanner. Such supports shall be of such support the wet plaster without desch per foot of span.

furring shall of 0.5 of a pound of the center to and ceiling con Sec. 4. ill be made from und per lineal for to center and so construction. studding for le from steel s lineal foot, she and shall be or metal lath partitions or wall l stock weighing not less than shall be spaced not over 16 in-be securely fastened to the floor

gauge. studs at ess Sec. 5. Metal lath snates than 54 oz. per square s than No. 20 gauge, and she ge. Metal lath shall be lads at intervals not exceeding lath shall exceeding uare yard. | sheet metal |e laced to the |eding 6 inche inches the galvanized steel weighing Wire lath shall not be lath not less than No. 24 ne supporting furring or

Sec. 6. After floors are constructed, no opening greater than 2 square feet shall be cut through them unless suitable metal framing or reinforcing is provided around the opening. After pipes or conduits are in place, all openings around them shall be filled in solidly with fireproofing material unless approved close fitting individual sleeves are provided.

ARTICLE 19.

Section 1. In fireproof buildings, all partitions enclosing public halls or separating the spaces occupied by different tenants, and all other permanent partitions, shall be built not less than 4 inches thick, of solid or hollow brick, built not less than 5 inches thick of reinforced concrete or solid metal lath than 5 inches thick of reinforced concrete or solid metal lath and cement plaster; or of such other incombustible materials and thickness as shall meet the approval of the Building Inspector. The required thickness for block or tile partitions shall be exclusive of plaster. All such partitions shall be securely fastened to the fireproof construction of the floor and ceiling. All bricks, blocks or tile shall be laid with broken joints.

Sec. 2. incombustible ordinance. materials, except not for woodwork permitte shall d in Ø

sec. 3. All partitic independently supported at essupport is not sufficient the reinforcement encased in the tor may require and approve. partitions in fireproof buildings shall be sed at each floor level, and where lateral sient they shall be stiffened by such steel in the construction as the Building Inspe

Sec. 4. Structural steel members necessary for supporting a partition, or for framing doorways or other openings through it, shall be protected by at least 1 inch of fireproofing. Gement plaster, or cement-tempered plaster, may be accepted for this purpose if properly keyed.

Sec. 5. Reinforced crequired in this article. Te semi-porous in quality and if the thickness, with the thick key, not less than 3/4 inch s 5/8 inch. Gypsum shall be ulath and studding shall confo 3/4 inch and shall be used iforced concrete for partitions shall be icle. Terra cotta tile shall be porous by and if hollow, shall have two cells the thickness of shells inclusive of pl/4 inch and thickness of web not less the conform to the requirements of Articall conform to the requirements of Articall conform to the requirements of Artical porous cells : e_of pl of plaster ess than Metal Article OF SE 18

ARTICLE 20

REINFORCED CONCRETE CONSTRUCTION

nance s embedde to add Section 1. ce shall mean an edded in such a m add rigidity and The term in approved in manner as id strength concrete mix to resist the to concrete "reinforced ced concrete" in mixture in whic st the tensile st rete in compressi e"in 'which stresse this On ordi 1 is and

those ments form t types good those Sec. 2. Reinforced concrete will be sof building construction, provided the engineering practice, and the working stemerating practice. The construction she is of the Ordinance in all respects and in to such other rules as may be issued by or State authorities having jurisdiction. be approved for all
the design conforms with
g stresses do not exceed
n shall meet the required in addition shall conby the Building Inspec-

with the Building Inspector shall be accompanied by stress computation and descriptions, if required, showing the general arrangement of the entire construction in all important details including the size, length and points of bending of all reinforcement, the qualities, proportions and methods of mixing the materials used in the concrete and the dead and live loads each floor is designed carry.

Sec. 4. All such plans and specifications shall be signed by the architect, engineer, contractor or person applying for the permit. In no case shall the construction deviate from the approved plans and specifications except by written consent of the Building Inspector.

or viscuous consistency of one part of parts of aggregate fine and coarse, eigene oart of cement, two parts of sand gravel, or in such proportion as to pusuch concrete shall develop a crushing pounds per square inch at 28 days when ditions of manufacture; the materials tically the same as that used in the ncrete shall consist of a mixture of a plastic y of one part of cement to not more than six e and coarse, either in the proportion of o parts of sand and four parts of stone or portion as to produce a maximum density. The proposition is a crushing strength of at least 2000 at 28 days when made under laboratory const the materials and consistency being practured in the field.

four and r special not less work, one-half part N such 2,400 parts pounds per T'n the the proportion of aggregate, which umns, shall develo square develop inch at one may 83 eq Jed crushing desirable ushing strength and

working stathat permit stress rmitted of such concrete elsewhere in thi ĊΩ may be in s Article increased 80 per cent over

tests to be made upon specimens cast during construction of the building. The test specimens shall be secured at such times and in such portions of the structure as the Building Inspector may direct. This test concrete may be taken from the barrows as the concrete is being wheeled to place or from the forms after it is deposited. ter

ches high. The average of result for record. The sma should be at least four time of stone. Test-specimens a set and stored in damp sand duplicate a double the the the resul Sec. 8. Each test shall consist of a set of at least threate specimens in the shape of cylinders with a height of the diameter; or cubes having a least dimension of 6 incubes shall be tested standing on bed and 75 per cent of sulting test strength shall be assumed as the strength of and and 16 incumentary of the average of the three tests shall be taken as the for record. The smallest dimension of the test piece be at least four times the size of the coarsest particle one. Test-specimens shall be removed from mould as soon as dataset and and and until tested.

Sec. 9. Al Portland cement me Testing Waterials. All cement meeting the used in reinforced concrete shall requirements of American Society for

Sec. 10. Fine aggregate shall consist of sand or crushed stone screenings, passing, when dry, a screen having 1/4 inch diameter holes and not more than 6 per cent passing a sieve having 100 meshes per lineal foot. It shall be clean and free from quick sand, vegetable loam, perishable organic matter or other deleterious materials.

Sec. 11. Fine aggregate so be of such quality that mortar coment and three parts fine aggregate briquettes, shall show a tensile strength of 1 to 3 mortar of the same cement and standard Ottawa strength of at least 180 lbs. per days. If the aggregate be of po ment a brior should 11. Fine aggregate shall always be tested. It shall ty that mortar composed of one part Portland ceree parts fine aggregate by weight, when made into shall show a tensile strength at least equal to the 1 to 3 mortar of the same consistency made with the and standard Ottawa sand and shall show a tensile at least 180 lbs. per square inch at the age of 7 the aggregate be of poorer quality, the proportion of 1d be increased to secure the desired strength. e proportion strength. the the shall ce-

which is retained o shall be graded in mum size shall be s a 1 1/4 inch diamet durable and free fr e be from on a s n size such t neter r Coarse ring se aggregate shall consist of crushed stone screen having 1/4 inch diameter holes, and a from small to large particles. The maxithat all the aggregate will pass through ring. The particles shall be clean, hard, all deleterious material.

or. Sec. 13. Stone shall equal D F strength eu1 nardes

Meet the requirements of the current Standard Specifications for Billet-Steel Concrete Reinforcement Bars of the American Society for Testing Materials. No reinforcement produced from re-rolled rails or second-hand materials shall be used in any structure without the written permission of the Building Inspector. If such reinforcement be permitted, it shall meet the requirements of the current Standard Specifications for Rail-Steel Concrete Reinforcement Bars of the American Society for Testing Materials. Cold drawn steel wire made from open hearth billets of the grade of rivet steel, or from Bessemer billets, may be used in floor and shrinkage stresses. It shall have an ultimate strength of not less than 85,000 lbs. per square inch and test specimens shall bend 180 degrees around their own dismeter without fracture.

O H not less than forty steel dowels y diameters. and splices shall have Ø length

ARTICLE 21

LOWABLE UNIT WORKING STRESSES

when fied ing s Section 1.
In the concrete
of the strength
stresses for c In the design of reinforced concrete structures is mixed in the proportions of 1:2:4, and satistrequirements of Article 20, the following work-concrete and steel shall be used:

| Bond stress between concrete and plain reinforcing bars 100 Tensile stress in steel reinforcement 16,000 to 18,000 | is proportioned to resist two-thirds of the ex- ternal vertical shear | is not resisted by steel | • | |
|--|--|--------------------------|------------|----------------------|
| 000 | 120 80 | 40 | 500 500 | lbs. per Sq. inch |

Bearing on a concrete surface having a total area three times the area of the loaded portion, may be taken per cent. of the ultimate strength of the concrete, when stresses are properly provided for. at least at 37 1/2 all other

or C Compressive stress in the ratio of the in steel shall be as moduli of elasticity specified of steel to n Article concrete.

In continuous beams the extreme fibre stress in concrete in compression may be increased 15 per cent adjacent to the supports. In proportioning the section of concrete for shearing stresses, the effective depth from center of compression area to center of steel shall be used.

Stresses in accordance wi excess of the ab above with this section, a above stresses. d in may the proportions of 1:1 1/2:3 be increased 20 per cent in

GENERAL ASSUMPTIONS

- and Slabs, As a basis for calculating the strength following assumptions shall be made: O O be ams
- (a) Þ plane section before bending remains plane after
- remains constant Ordinance. modulus within : of elasticity of limits of working concrete in compression fixed in this
- (c) perfect. \mathbb{T} he adhesion between concrete and reinforcement
- (d) Concrete has no value in resistance to tension.
- (e) expansion r T 1 stress i Ω H. the he reinforcement negligible. due contraction

or gravel concrete and steel inflexure shall be taken as 1:5. The ratio of the moduli of elasticity of of the moduli of elasticity of 1:1/2:3 stone

0 H to exceed the clear span plus the over-all depth of beam of slabrackets shall not be considered as reducing the clear span in the sense here intended. distance from center to center of supports (g) The ratio The span length for beams and slabs shall be taken as the steel inflexure but need not be taken slab.

shall be taken as 1:12.

BENDING MOMENTS OF UNIFORMLY LOADED FLOOR AND ROOF SLABS

BENDING MOMENTS OF SLABS SUPPORTED ON TWO SIDES

Sec. 3. The bending moments of slabs, due distributed loads, shall be taken as not less than: 1/8 WL, at /10 WI, /12 WI, at center and intermediate supports when continuous over more than two supports. at one end and continuous at the other. Total distributed dead at center and continuous support when supported center when simply supported. and live loads. due to uniformly

ted than 1/12 0ne (WI, at center when sinowI, at center and over the end and continuous at le WI, at both center two supports. over simply the supports ly supported. troddns continuous men -roddns over

BEAMS SUPPORTING RECTANGULAR SLABS

Sec. 8. directions, etermined by Beams supporting rectangular shall be assumed to take the the formula in this Article rectangular to take the slabs reinforced in proportions of load

which over t the Sec. 9. The bending are continuous for two he central support and spans 1/10 moment only, of slabs, only, shall euz beams or g l be taken middle of middle girders n as 1/8 WL

GENERAL DESIGN REQUIREMENTS FOR BEAM AND SLAB CON-STRUCTION - SPECIAL MEMBERS

Sec. 10. The of unusual length, or shall be more exactly The bending moment for slabs or beams with a due to other than uniformly distributed computed according to accepted theory. spans d loads,

CONTINUOUS FLOOR CONSTRUCTION

vision shall be made for the negative bending moment over the supports by placing sufficient negative reinforcement near the top of the members to resist the stress. This reinforcement shall pass the members to inflection in beams or girders and be anchored beyond the point of inflection in beams or girders and be anchored in the compression concrete of the member a sufficient distance to develop the full strength of the steel through bond stress. The critical section of continuous construction is over the suppor support.

Sec. 12. Members of web reinforcement in beams shall be designed for diagonal tensile stresses, using the calculated vertical shearing stress as a measure of these tensile stresses. They shall not be spaced to exceed three-fourths of the depth of the best shall not be spaced to exceed three-fourths of the depth of the best of the concrete in shear. It shall be assumed that two-thirds of the external vertical shear is provided for by the steel in calculating the stresses in stirrups, diagonal web members and bent up bars; and the remaining one-third of the shear shall be assumed as bars; and the remaining one-third of the shear shall be assumed as They e beam t up

sec. 13. Web members such as stirrups, attached to the longitudinal steel at both top carried around and bent over the longitudinal me carried around and bent over the longitudinal me sufficiently anchored in the compression concressible stresses existing in them. Diagonal method to the longitudinal steel on the tensification at the ends of continuous girders shall be invested anchored in the compression concrete at the length of stirrups or diagonals embedded in shall be sufficient to develop their entire tensifications. ers such as stirrups, when not rigidly al steel at both top and bottom, shall be er the longitudinal members or otherwise he compression concrete to develop the in them. Diagonal members shall be rigid in theel on the tension side. Stirrups al steel on the tension side. Stirrups girders shall be inverted, with the free girders shall be inverted, with the seam. tensile stresses the free concrete

T BEAMS

Sec. 14. Where adequate bond is provided at jutween slab and beam and the two are cast at the same timulit, the slab may be considered as an integral part of provided its effective width shall not exceed, on either the beam, one-sixth of the span length of the beam nor than four times the thickness of the slab on either six beam; the measurements being taken from line of interse beam; the measurements being taken from line of interse measurements b and beam. e same time I part of t on either her side of intersection junction time as a of the be O O une beam, side of e greater of the

Sec. 15. In beams with T-sections the width of the stem only shall be used in calculating longitudinal shear and diagonal tension. An effective bond shall be provided at the junction of the beam and slab when the principal slab reinforcement is parallel to the beam, by the use of transverse reinforcement extending over the beam and well into the slab.

beams, saide at or by en or by entending emb Sec. 16. sufficient t the suppor 9 c. 16. In the design of T-beams acting as continuous fficient compression area shall be provided on the under he support, either by the use of properly designed brackets edding additional compression steel in the concrete exorthe point of inflection.

THICKNESS 얼

be Sec inches The and for roof mum thickness roof slabs 3 $\boldsymbol{\mu}$ 1/2 1/2 concrete inches.

FLOOR FINISH

Sec. 18. sidered in calcul Cement Lating the concrete strength floor fir fini members. þe

Sec. 19. The design of composition of hard-burned terra cotta tile, concrete blocks, sheet other approved fire resistive material, separate by ribs or beams of their proved stone concrete, shall conform to all the provisions of this Part so far as they are applicable. The ribs shall be at least 4 inches wide. The tile or blocks shall be regarded only as fillers and shall not be considered in the design except as dead load. If designed as a T-beam, the slab portion above the fillers shall be at least 2 1/2 inches thick, and shall consist of the same mixture used for the ribs, and shall be cast at the same time; under these conditions it may be considered in the design of the ribs. Tile or concrete block fillers shall be laid with Portland cement mortar joints, and shall be thoroughly wet before the concrete is poured. The protection for steel bars in bottom of the same as for other beams.

To resist expansion stresses, reinforcement bars not than 1/2 inch diameter, shall be placed in the concrete at angles to the ribs and above the fillers, at intervals not ing 50 inches. right exceed

DESIGN OF COLUMNS AND WALLS LENGTH 엺 COLUMNS

maximum Sec. 20. unsupported The length d length. S. columns shall ьe taken SB

The unsupported length of cotimes the least side or diameter and or diameter be less than 12 inches. corbel or knee brace attached to the columns s In no ca The ler column. shall roose s not exceed shall the shall ceed fifteen the least side include any

COLUMNS WITHOUT HOOPS

without hoops, bands, or spirals containing not less than cent, nor more than 3 per cent of vertical reinforcement, against lateral displacement by steel ties placed not far than fifteen diameters of the vertical rods, nor more than ches, shall not exceed 500 pounds per square inch on the area of the concrete, plus 6000 pounds per square inch or tical reinforcement. The percentage of reinforcement shall not exceed 500 pounds per square inch or the area of the concrete, plus 6000 pounds per square inch or tical reinforcement. less than 1/2 per forcement, secured ed not farther apart r more than 12 inch on the effective re inch on the verreement shall be concrete ss than 1/ columns ./2 per

calculated upon inch upon the effective area of the column, win the reinforcement. Steel ties shall be in diameter or least dimension. At least be used in every reinforced column and not ease of less than 1/4 square inch. es shall be not less than less than At least four vertical

COLUMNS WITH HOOPS

with not less than 1 per cent of hoops or spirals (that is, a volume of steel equal to 1 per cent of the volume of concrete within the hoops of spirals for a unit length of column) spaced not farther apart than one-sixth of the diameter of enclosed column, but in no case more than 3 inches, with not less than one nor more than 4 per cent of vertical reinforcement, shall not exceed 750 pounds per square inch on the effective area of the concrete, plus 9000 pounds per square inch on the vertical reinforcement. The hoops pounds per square inch on the vertical reinforcement. The hoops to at least four vertical bars in each convolution.

Columns required to be settled before being built upon. within

STRUCTURAL STEEL AND CONCRETE COLUMNS

thoroughly encased in concrete having a minimum thickness of 4 inches and reinforced with not less than 1 per cent of steel (that is, a volume of steel equal to 1 per cent of the volume of steel equally divided between vertical reconcrete within the hoops) equally divided between vertical respart, may be taken at 16,000 pounds per square inch on the net section of the structural steel, no allowance being made for than 1 inch from the structural steel or nearer than 1 inch from the structural steel or nearer than 1 1/2 inches than 1 inch from the structural steel or nearer than 1 1/2 inches from the outer surface of the concrete. The ratio of length to exceed 120.

COLUMNS CONSTRUCTED WITH SPECIAL CONCRETE

on the concrete may be increased 20 per cent when the fine a coarse aggregates are carefully selected and the proportion more than four and one-half parts of aggregate, fine and coseither in proportion of one part of cement, one and one-half of sand and three parts of stone or gravel or in such proportion as will secure the maximum density. The unit stress on the tical reinforcement in such columns shall not exceed twelve the unit stress on the concrete. eompression e fine and proportions on the veto not

COLUMNS ECCENTRICALLY LOADED

Sec. 25. Bending stresses in columns due shall be provided for by increasing the section of so that the total unit stress shall not exceed the ing stress in flexure. the to eccentric loads, f concrete or steel allowable workt o

BASE PLATES

Sec. 26. Suitable steel base plates or castings shall be provided at the bottom of columns to distribute the loads over the footings and the vertical reinforcement bars shall bear squarely on these plates or the reinforcing bars shall be carried down into an enlarged footing to distribute the load through bond stress.

WALLS

Sec. 27. concrete shall be Exterior securely anchored and interior bearing walls o OF, f reinforced walls,

not less than two-thirds that specified for brick walls and in no case less than 8 inches. All such walls shall be no case less than 8 inches. All such walls shall be reinforcement shall be not less than 1/5 of I per cent of the cross-section of the wall and shall be equally disposed near each less in thickness, the reinforcement may be placed as a single than 18 inches apart. Additional reinforcement shall be placed more around wall openings and all vertical and horizontal reinforcement shall be placed nore not exceeding 18 inches in either direction. ed or have other mechanical inches in either direction. compressive h. The thic

brick. Where brick is less than two courses of l arches shall be is used, the arch s or eight inches. inches. of reinforced concrete or shall be composed of not

RTICLE 22

REQUIREMENTS FOR REINFORCEMENT EXTERNAL AND INTERNAL DEFECTS

rust, scale, grease, paint or any coating which would tend to reduce or destroy the bond between the steel and the concrete. Bars shall also be free from injurious seams, slivers, flaws and other than 5 per cent from the standard weight of the lot as given by manufacturers, handbooks.

PLACING AND SPACING OF REINFORGEMENT

mechanically secured against displacement shall be accurately located and the concrete. Reinforcement bars for slabs shall not be spaced slab. The spacing of parallel bars in beams shall be not less than three diameters from center to center, nor less than one inch. In restrained or cantilever construction, restruction for full and effective anchorage, except that when this acceptable to the Building Inspector. Special reinforcement shall extend beyond the supports into adjacent consist not practicable, anchorage shall be obtained by other means be provided to resist concentrated loads. Slabs reinforcement shall not inch in diameter placed above the reinforcement and spaced in approved by the Building Inspector shall be assembled well in approved by the Building Inspector before concrete is deposited.

PROTECTION FOR REINFORCEMENT

Sec. 3. Steel reinforcement shall on all sides as follows: have a minimum protec-

1/2 In columns and girders, 2 inches; and in floor slabs, 2 inches; bs, 1 inch. ín beams

The steel in footings for minimum protection of 4 inches o walls and columns concrete.

SPLICES IN REINFORCEMENT

Sec. 4. Splices in reinforcing bars shall transfer the calculated stress at the joint either be designed to by bond and shear

through the concrete or by bearing between the steel. Splices at points of maximum stress shall be avoided where possible. Lap splices of bars shall be of sufficient length to develop the required stress in the joint without exceeding the bond stress permitted. In columns where necessary to splice vertical bars having areas in excess of 1 1/4 square inches, it shall be done by cutting the bars squarely at the ends and enclosing them in a close-fitting pipe sleeve or uniting them by a threaded splice or other mechanical connection that will transfer the load from one to the other without stressing the adjoining concrete excessively. The middle point of such splices shall be within one foot above the floor level. Splices in column hooping, where necessary, shall be sufficient to develop the full strength of the hooping. be within hooping, full strength

WORKMANSHIP FOR CONCRETE MIXING

Sec. 5. The accurately measured a homogeneous mass of sistency that it will separation of the coa The separate ingredients of concrete shall be asured and thoroughly mixed in a manner to produce mass of uniform color and of such a viscous conit will flow to all parts of the forms without the coarse aggregate from the mortar.

when the conditions of the work make hand mixing preferable, mixing shall be done in a mechanical batch mixer from which a complete batch shall be discharged before another is received. All ingredients shall be mixed together for at least one minute the mixer making at least 20 revolutions.

DEPOSITING

Sec. 7. Concrete shall be deposited, thore and worked to place, before initial set begins, and be kept free from shocks and disturbances of every it has fully hardened. Re-tempering of concrete tial set shall be prohibited. thoroughly tamped is, and shall then every kind until rete after its ini-

all professions Sec. 8. When the necessary grooves for the concrete sets. work of placing joining future v work shall be suspended,

Sec. 9. Before depositing new concrete upon concrete already set, the contact surfaces shall be roughened, cleaned of all laitance and loose material and then drenched with water and slushed with a grout consisting of one part Portland cement and not more than two parts fine aggregate, immediately before placing the fresh concrete. If a water-tight joint is desired or if granolithic is to be deposited on old concrete, it is necessary that a neat cement grout be used.

DRYING

Sec. 10. When fresh concrete is exposed to rapid drying condition, precautions shall be taken to keep it moist for a period of at least seven days after being deposited. Where practical, this shall be done by a covering of wet sand, burlap or some other equally effective method. Thorough wetting twice a day is recommended.

CINTS

practicable but such sections shall be Sec. 11. Construction joints shall be avoided wherever practicable but when they are necessary they shall be located at such sections as will least affect the structural strength and shall be made at right angles to the direction of principal compressive stress. In members of floor systems, joints shall be made within the middle third of the span where practicable. In

ages during setting necessitate joints in independent walls at intervals of 50 to 80 feet when not otherwise provided for by effection of the set of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 to 80 feet when not otherwise provided for by effection of 50 feet when not otherwise provided for by effection of 50 feet when not otherwise provided for by effection of 50 feet when not otherwise provided for by effection of 50 feet when not otherwise provided for 50 feet when not otherwise provided for 50 feet when not otherwise provided feet when notherwise provided feet when not otherwise provided feet when not lowest connecting floor members. Temperature changes and shrinktive reinforcement. joints shall only be permitted at the bottom face of the

Sec. 12. Girders, beams and slabs shall not be cast upon freshly formed columns until a period of 4 to 6 hours have elapsed to permit settlement.

CONSTRUCTION OF FORMS

care shall be exercised to make them as nearly water-tight as pracshall be substantial and unyielding and

removed from forms and that they are thoroughly greased or wetted before concrete is deposited in them. Beam forms shall be so deticable. bottom portion of the forms and its supports; and column forms, signed that at least one side may be removed without disturbing the Cleanout boles shall be provided in the bottom of column forms where that they may be removed without disturbing beam and slab forms. to insure the removal shall be taken to insure Beam forms shall be so dethat all debris is

least (90°) st 3 holes 5/ o) apart, nes the thicknes In all cast iron holes 3/8" in d of : on columns not cast with open side, at diameter, shall be drilled 90 degrees middle of shaft for the purpose of measur-

shifted more than one-fourth (1/4) the thickness of the shell, the strength shall be computed assuming the thickness of metal all around equal to the thinnest part, and the columns shall be rejected if this computation shows the strength to be less than required. A cast iron column shall be rejected whenever blow holes or other imperfections reduce the effective area of the cross section more than ten per cent. (10%). of metal shall be

planed to a true surface perpendicular to the axis of the column. Successive column lengths shall be bolted together through end Successive column lengths shall be bolted together through end flanges with at least 4 bolts not less than 3/4" in diameter. If the core of a cast non column below a joint is larger than the core of the column above, the core of the lower column shall be tapered up for a column above. In lieu of a tapering core, a steel or cast iron plate of sufficient thickness may be used between the flanges. The difference between the diameters or side of any two successive column lengths shall not be greater than 2". column cast

Sec. 4. The connection of beams and girders to cast iron columns shall be effected by means of seats reinforced by brackets of sufficient depth and thickness to support the entire load and of sufficient depth and thickness to support the entire load and by lugs to which the webs of the beams and girders shall be bolted. Be projection of the seat beyond the face of the column shall, in general, be not greater than 4". All holes in cast iron columns shall be drilled. Cored, or cored and reamed holes shall not be permitted. The dismeter of holes shall not be more than 1/16" greater than dismeter of bolt or rivet. The distance from less than 1 1/2". Cast iron columns shall not be used in any less than 1 1/2". Cast iron columns shall not be used in any of compression to zero in the extreme fibre on one side of the axis of the column.

Sec. 5. Cast from columns shall not be used in the structural frame of buildings, the height of which is greater than 5 times their width. Cast from columns shall not be painted or covered until after inspection by the Building Inspector. All wrought and cast structural steel and from shall conform to the test requirements of the current Standard Specifications of the American Society for Testing Materials.

Bases which rest on steel girders shall be planed on toptom. The thickness of metal shall be not less than one inch
(1"). The inclination of the outer edge of the ribs with the
horizontal shall be not less than 45 degrees (45°). Whenever
one side of the bed plate exceeds 3 ft. in length, a reinforcing
shall be not less than 3/4" in thickness and shall not be used
for spans exceeding six feet (6').

TEEL CONSTRUCTION

than 60 times in the angles standing legs hether in body of control less thickness the plate and angles No rolled steel column shall contain material, column or used at lattice bar or stay-plate, f column or used at lattice bar or stay-plate, than 1/4". In steel columns built up of a than 1/4". In steel columns built up of a than 1/4" are unsupported length greater les and having an unsupported length greater. having an unsupposadius gyration, of less than 1/12 unsupported lengtion, the thick an 1/12 the widt

shall not exceed 120 times its least radius of gyration, nor 40 times its least lateral dimension or diameter. The ends of all columns shall be faced to a plane surface at right angles to the axis of the columns. Wherever practicable the connections between them shall be made with splice plates. When the sections of the columns to be spliced are such that splice plates cannot be used, a connection formed of plates and angles designed to properly distribute the stress may be used. Where any part of the section of a column projects beyond that of the column above, the difference shall be made up by filling plates secured to the ends of built up columns shall not exceed 4 diameters of the rivets at of the column. rolled steel co dimension

STEEL GIRDERS AND BEAMS

Sec. 9. The thickness of the web in built up girders shall be not less than 1/120 of the distance between the flange angles or stiffeners, nor less than 1/4 inch. When the unsupported length (L) of the compression flange of a girder exceeds 10 times its width (B), the unit stress in such flange shall not exceed 19,000-300 [I,B]; but in no case shall the unsupported length of the compression flange exceed 40 times its width. Stiffeners shall be provided over the supports and under concentrated loads. They shall be connected with a sufficient number of rivets to transmit the stress to the web plate. If the unsupported depth of the web plate exceeds 60 times its thickness, intermediate stiffeners shall be provided. All stiffeners shall be in pairs, with close bearing against the flange angle. When rolled steel beams are used in pairs to form girders, they shall be connected together by bolts and iron or steel separators at intervals of not more than 5 ft. All beams 12" or over in depth shall have at least 2 bolts to each separator. Beams supported by girders shall be riveted or securely bolted to the same. Every beam, lintel or girder supported by a wall, shall be properly anchored thereto and shall rest upon a steel or iron plate so designed as to properly distribute the load over the masonry.

FRAMING AND CONNECTING STRUCTURAL STEEL WORD

Sec. 10. Steel girders, columns, beams, trusses and other steel work of floors and roofs shall be well and firmly connected together and to the walls. All beams framed into other beams, girders or columns shall be connected thereto either by angles or knees with sufficient rivets or bolts in both legs of each connection angle to transmit the entire load coming on the connection to the supporting beam, girder or column; or a seat sufficiently strong to carry the full load with a single angle to hold the beam in place may be used. ther by angles or est sufficiently e to hold the

STEEL TRUSSES

in each member can be calculated. All trusses shall be held rigid in position by efficient systems of lateral and sway bracing, strutioning spaced so that the maximum limit of length to least radius of gyration, established in this Ordinance, is not exceeded. For tension members, the actual net area only, after deducting rivet holes 1/8" larger than the rivets, shall be considered as resisting the stress. Compression members in pin-connected trusses shall be so designed that the stresses shall not exceed 75% of the permissible working stress for columns. The heads of all eyebars stress. constress so designed that the so designed that the solutions are by upsett stresses be held rigidly racing, struts

n the body of the bar. Steel eyebars shall be hall be straight before boring. All pin hole and at right angles to the axis of the members in within 1/16". Eye and screw ends shall be hat, upon test to destruction, fracture will to the member. All pins shall be accurately to rtioned in body

RIVETING AND BOLTING

and trusses shall be riveted. All column connections in buildings over 3 stories in height shall be riveted. Riveting shall also be used in column splices, in web and flange splices of girders and trusses, and in all connections of beaus and girders to columns. Where riveting is impracticable, turned bolts may be used, provided the holes for the same are punched and reamed to a template and the bolts are accurately fitted. All shop rivets, wherever practicable, shall be machine driven. The pitch of rivets shall never be less than 3 dismeters of the rivet nor more than 6". In the direction of the stress, it shall not exceed 16 times the least thickness of the outside member. At right angles to the stress, it shall not exceed 32 times the least thickness of the outside sember. Rivets shall the holes completely the heads shall be spherical and concentric with the sxis of the rivet; the length between heads shall not exceed 5 times the dismeter. Where riveting is not required, connections with the United States Stanll be wrought iron or mild steel with the United States Stanll be truly concentric with the bolt and the thread shall be of sufficient length to allow the nut to be screwed up tightly. When bolts are used in tension, the working stress shall be reduced to 7000 lbs. per square inch for wrought iron, and the load shall be transmitted into the head of sufficient person of exterior stairs, landings, platforms and balconies, no rivet shall be less than 3/8" diameter and no bolt less than one-half (1/2") inch diameter.

Sec. 15. All metal structural work shall be cleaned of all scale, dirt and rust and be given one coat of paint at the shop, completely covering all exposed surfaces. After erection, all such work shall be painted at least one additional coat of a shade different from the first. The first coat of paint shall be made of pigments, which shall be chemically inert after application and shall be mixed withlineseed or other drying oil. The amount of volatile matter shall be sufficient for easy spreading and shall not injure the film of the paint. The paint must dry sufficiently hard within 24 hours so it will not rub off or abrade easily. When the steel reaches the job, all abraded or injured portions must be thoroughly recoated with the same material as the shop coat, before the second coat is applied. The second coat of paint shall be such as will not act as a solvent of the first coat and shall be mixed with a pigment which shall be inert after application, and the vehicle shall be one that will not saponify under the action of cement mortar. Surfaces of riveted work which come in contact with each other, shall be painted of in deem locations or under water shall be embedded. that will not sapenify ur faces of riveted work whi be painted with 2 coats c steel used in damp locati in Portland cement concre ork which come :
coats of paint |
locations, or | water, shall be embedded t shall be applied to the

Any structural steel cessible for inspection of all rust and area. Work k which may be after erection in Portland ce

ARTICLE 24

ORDINARY CONSTRUCTION

Article 12. Footings and foundations shall conform to

CONTINUOUS SPREAD FOOTINGS

ec. 2.

Exterior 3 story 2 story 1 story 36 n 30 n 24 n concrete concrete 444 1 1 1 square bars, square bars.

Exterior footings shall be continuous around the entire building.

Interior 3 story 2 story 1 story 30 24 18 18 122 122 121 121 concrete concrete concrete 全身车 1 1 1 square bars. square bars.

FOUNDATION WALLS

Exterior μ t O Ø stories 12" wide concrete concrete where joists bear.
joists do
not bear.

Walls to extend to the underside of joists where frame floor construction is used and to top of slab where concrete floor construction is used. Bottom of wood joists to be at least 12" above grade.

Interior to 3 stories <u>ω</u> <u>ω</u> wide concrete.
wide blocks where holes in blocks
are grouted and a 6" deep concrete cap is poured on top of
blocks.

Where footings and footing walls are not poured in the same operation, ½" round dowels shall be placed in the footings in line with the wall, spaced at intervals not to exceed 5'.

A creosoted timber plate shall be placed on top of the foundation walls where joists bear.

COLUMNS

size from used Sec. 5. Where columns are required they shall as follows, placed at not over 16' intervals and the footing wall to the top tie-beam, where pitch and to the parapet coping where flat roofs are use y shall be of the als and shall exten e pitch roofs are are used. extend s are

1 story 2 story None required. 8" x 12" concrete

TIE BEAMS

Tie-beams shall l continuous around the croof. be of t the following sizes and shall be building at all floors and the

Residences 8" x 12" concrete 4 - 2" square bars.

12" W Where there is a change in the elevation of a tie-beam e shall be a vertical concrete connection, not less than wide, reinforced with $4-\frac{1}{2}$ " square bars.

Where the gable end of a building has an area in excess of 100 square feet above the top tie-beam, a slope tie-beam having an area not less than 64 square inches, shall be poured. It shall be reinforced with not less than 2 - ½" round bars, the ends of which shall be imbedded in the horizontal tie-beam.

PARAPET COPING

All parapet walls shall be capped with a concrete coping having a cross-sectional area of not less than 64 square inches it shall be reinforced with not less than 2 - ½" round bars. This coping shall be connected to the upper tie-beam, at intervals of not over 16', with 8" x 12" vertical concrete ties, reinforced with 4 - ½" square bars. The minimum height of a parapet wall shall be 18" above the low point of the roof. coping, e inches.

TRANSIT MIXED CONCRETE

эq five The least e sacks of cement content of transit mixed concrete shall to the yard of concrete.

Sec. 4. When changing from concrete to wood construction, the wooden plate or sill shall be not less than 2" x 6", and shall be fastened to the concrete by not less than \(\frac{1}{2}\)" x 12" bolt, firmly embedded in the concrete foundation, beam, girder, or lintel, at least every five feet, and securely bolted through wood plate or sill.

Sec. 5. All columns, posts or piers shall have a footing not less than twelve inches wider on all sides than the column, post or pier which it supports. It shall be not less than twelve inches thick, reinforced with not less than four half inch rods at right angles.

which rest on masonry of all wooden floor, ceiling or concrete walls shall be given a roof joists, coat of

black asphaltum. Wrought iron anchors shall be firmly embedded in the continuous concrete beam at least every fourth joist or rafter and securely fastened to such joist or rafter. No wood beams or joists shall be placed within two inches of the outside face of a chimney or flue. No wooden furring or studding shall be placed against any chimney. least evo embedded

Sec. 7. No wooden floor joist used in any building shall be less than 2" x 8", nor spaced more than sixteen inches on centers. Joists 2" x 8" shall not exceed twelve foot span; 2" x 10" not to exceed twenty-four feet span. All floor and ceiling joist shall be cross bridged, herring bone style, with at least 1" x 6" material at intervals of not less than ten feet.

Sec. 8. Not less than 2" x 6" shall be used as ceiling joist or roof rafter. Hip roofs shall have collar beams securely braced. At least every fourth roof rafter shall be diagonally braced to ceiling joist.

Sec. 9. The ends of all wooden floor, ceiling or roof beams, which rest on masonry or concrete walls, shall be cut to a bevel of 3 inches in their depth. No wood beams or joists shall be placed within 2 inches of the outside face of a chimney or flue. No wooden furring or studding shall be placed against any chimney.

Sec. 10. No be less than 2" x 8
Beams 2" x 8" shall ceed 18 foot span; Shall r wooden floor beams used in any building shall, nor spaced more than 16 inches on centers. not exceed 14 foot span; 2" x 10" not to ex-2" x 12" not to exceed 24 foot span.

ARTICLE 25

WIND PRESSURE

Section 1. For purposes of design the wind pressure upon all vertical plane surfaces of all buildings and structures shall be taken at not less than thirty (30) pounds per square foot for those portions less than forty (40) feet above ground and not less than thirty-five (35) pounds per square foot for those portions more than forty (40) feet above ground.

Where it shall appear that a building or structure will be exposed to the full force of the wind throughout its entire height and width, the pressure upon all vertical surfaces thus exposed shall be taken at not less than thirty-five (35) pounds square

per ce overturning moment resulting in no case exceed sixty-six the resisting moment. from and two-thirds (66 2/3%)

RTICLE 26

TENT

Section 1. No tent or screened structure of a be erected or maintained within the Town limits of the Golden Beach without the approval of the Town Council. any kind he Town of ud shall of

PROJECTIONS

installed in the Building SOLAR WATER any building Inspector. WI thout first secsecuring the approval

FENCES

height are prohibited. party fences Over eight feet (81)

RPICLE 27

TAIRS AND STAIRWAYS

to riser. forms. rise less Section 1. All stairways and steps shall have of not more than 7 3/4 inches and a uniform treat than 9 1/2 inches, measuring from tread to tread iser. There shall not be more than 16 risers best sery platform shall be at least as wide as measuring at right angles to the direction of treatments. 3/4 inches and a uniform tread of not measuring from tread to tread, and riser not be more than 16 risers between platshall be at least as wide as the stairangles to the direction of travel. ø e uniform

guards on both sides.

ARTICLE 28.

CHIMNEYS, FLUES AND HEATING APPARATUS

brick, reinforced concrete or other approved incombustible with walls not less than 8 inches thick, laid in cement mor without addition of lime, extending at least 3 feet above of contact with a flat roof or 2 feet above the ridge of a roof, and shall be properly capped with terra cotta, stone, iron or other approved incombustible weatherproof material. ll be of ble material worter, bye point of a pitch tone, cast

- smoke flues of all boilers, furnaces and all flues used for similar purpose, shall be at least 8 inches in thickness. Brick se on edge shall not be permitted in fireplace or chimney construction. of the for simi-Brick set
- Sec. 3. Where two or more smoke flues are contained in the same chimney, the walls between the several flues shall be of brick and not less than 4 inches thick. Chimneys hereafter erected of stone, or cement block, shall be 4 inches thicker than required for brick or reinforced concrete.
- Sec. 4. Every smoke flue contained in a chimney hereafter erected shall have a net area of at least 62 square inches and shall be lined with firebrick or hard burned terra cotta flue lining, made smooth on the inside. The flue lining shall start from the bottom of the flue, or from the throat of the fireplace, and shall be carried up continuously the entire height of the flue
- Sec. 5. In no case shall a chimney be corbled more than 8 inches from the wall, and such corbing shall consist of at least 5 courses of brick. Piers, which support chimneys shall start from the foundations on the same line with the chimney breast. No chimney shall rest upon nor be carried by woodwork. No combustible furring or sheathing shall be placed against any smoke flue or chimney breast.
- Sec. 6. The smoke flue of every high pressure steam boiler and every appliance producing a corresponding temperature in the smoke flue shall, if built of brick, stone, reinforced correte or any other approved masonry, be lined on all sides with not less than 4 inches of fire brick, laid in fire clay mortar for a distance of at least 25 feet from the point where the smoke connection of the boiler enters the flue. smoke COn-
- with tight filting metal covers. when 30

Sec. 8. No wooden beams or joists shall be placed within 2 inches of outside face of chimney or flue. The header beam, carrying the tail beams of a floor and supporting the trimmer arch in front of fireplace, shall be not less than 20 inches from the chimney breast. No wooden furring or studding shall be placed against any chimney. The plastering shall be directly on the measonry or on metal lathing and metal studding.

Sec. 9. Boiler or beater rooms in all residences and other similar buildings shall be of fireproof construction with ceilings of reinforced concrete not less than six inches in thickness, for fire protection.

AR н ICLE 9

GARACES

Section 1. Private garages housing not more than four automobiles, if not within 15 feet of any other building, may built of ordinary construction. 8

If more than one story in height and having living quarters on the second floor, such garages shall be of concrete block or other similar fire resisting material. The ceiling separating the living quarters from the garage shall be covered with sheet rock or other similar fire resisting material. No openings shall be permitted between garage and living quarters.

Private garages, built as a part of be constructed of concrete block or other anaterial. a residence, shall similar fire resisting

AR TICLE Ċì

VENTITATION

Section 1. In all buildings, every sleeping room shall be provided with a window or windows, opening directly upon a street, yard or court. The windows of every sleeping room shall have an area of not less than 12 square feet between the stop beads, and the sash shall be arranged to open to the extent of one-half (1/2) their area.

Sec. 2. In every building, every sleeping room shall be not less than 8 ft. 6 inches (8' 6') high, from finished floor to finished ceiling and the floor area shall not be less than 80 square feet.

Sec. 3. Every bathroom and toilet room shall be provided with a window of not less than 4 square feet opening directly to the open air or a ventilating shaft, of not less than four square feet area, open to the sky.

Ħ H C 上田

ROOF COVERINGS

All buildings shall have roof coverings of approved standard quality, such as brick, concrete, tile, slate, highest grade of tin roofing, asbestos shingles, or built up roofing, felt with gravel or slag surface, or built up asbestos roofing, or of like gravel or slag surface, or built up asbestos roofing, or of like grade, which would rank as Class A or B under test specifications of the National Board of Fire Underwriters.

porated with the properly flashed All flashings shall be of metal properly incor-roofing material, or of same material as roof, into outer roofing and into walls.

Sec. 3. wooden shingle roof permitted.

ARTICLE 32

SKY-LIGHTS

wise, Section 1. All sky-lights shand the frames and parts thereof securely fastened in addition to shall have metal reof, shall be riv soldering. riveted or ot other-

Sec. 2. heavy plain scree inch o screens. The (1") and the S. Metal. glass I sky-lights shall is may be used, if pi The mesh of such and wire shall be of d, if protected be such screenby galvan-not exceed as than 12

ARTICLE 33.

MERAL POWERS AND DUTIES OF THE BUILDING INSPECTOR

the Mayor and approved by the Town Council. He shall have the power, and it shall be his duty, to enforce the provisions of this Ordinance; to approve or disapprove within a reasonable time, applications, plans, detail drawings and amendments thereto; to issue permits, notices and certificates; to make rules and specifications to assist in the proper application of this Ordinance, or providing for necessary additional regulations covering details of special construction; to pass upon questions relative to the mode, manner of construction or materials to be used in the erection or alteration of a building; to require that such mode, manner of construction, or materials shall conform to the true intent and meaning of the several provisions of this Ordinance; to authorize the Town Attorney, subject to the approval of the Mayor, to institute any and all actions that may seem Mayor, to the or necessary

vary or modify any provisions of this Ordinance, or of any existing law or ordinance relating to the construction, alteration or removal of any building or structures erected or to be erected within his jurisdiction.

way of executing the strict letter of the law, so spirit of the law shall be observed, public safety substantial justice done, a written application she by the owner of such building or structure or by he authorized agent, addressed to the Town Council, structure or by he grounds for the desired variation or modificat questing permission that he or his representatives before the Town Council, or a committee appointed dent of the Council, and be heard. The Town Council, and be heard, a hearing upon cation, and shall, as soon as practicable, render thereon, which decision shall be final. hearing u law, so that we consider the secured and station shall be filed difficulties tting such deci: the Presiin the fix appliforth

Sec. 4. Whenever the Building Inspector shall reject or refuse to approve the mode or manner of construction proposed to be followed, or materials to be used in the erection or alteration of any building or structure or when it is claimed that the rules and specifications of the Building Inspector or the provisions of this Ordinance do not apply, or that an equally good or more desirable form of construction can be employed in any specific case, the owner of such building or structure, or his decision of the Building Inspector where the grown the Building Inspector where the (\$100.00)

that there exists Whenever in any building Building Ç, structure erected **vidence**

institute a uity, to res rther work to prevent the rection or alteration, a vinance, he may, in his discinance, he may, in his discinance, he may, in his discinance, subject to approval of any appropriate action or strain, correct, or remove restrain, correct, or strain the building or strain the building of the the occupation or use of the of the hard proceeding at such violati building mitteeman

PROCEEDINGS IN CONNECTION WITH COLLAPSED BUILDINGS UNSAFE BUILDINGS UNSAFE OR

Section 1. Notice to Make Safe. When it is reported to the Fullding Inspector that any building or structure or part thereof Fullding Inspector that any building or structure or part the building in must be property to be made. If this examination shows the building or structure or any portion thereof to be unsafe or dangerous, is unsafe or dangerous, if the property to be made sexwe notice upon the surface or if fabsent in a tonce serve notice upon the spent or occupant. Such as to the county florida, then upon the spent or occupant. Such selector shall contain a description of the building or structure or dangerous, and shall require the person served considered unsafe or dangerous, as may be considered necessary notice shall consent or removed, as may be considered necessary therewith to immediately certify in writing to the Building Inspector his consent or part thereof. If he immediately certifies in writing his consent to comply therewith he shall be spector has consent to comply therewith, he shall be shall employ sufficient labor and materials, and immediately bedone as specify as possible and shall be continuously proseposit to secure, make safe or remove the building or structure. The work shall be done as specify as possible and shall be continuously proseposited to the satisfaction of the Building Inspector.

Sec. 2. Notice of Survey. Should the person so served with notice neglect or refuse to comply with any of the requirements of said notice to the satisfaction of the Building Inspector. a further notice shall thereupon be served upon him in the manner heretobefore prescribed. Said notice shall state that a survey of the premises specified therein will be made by a Committee of surveyors, to be appointed as prescribed in Section 7 hereof, at a surveyors, to be appointed as prescribed in Section 7 hereof, at a stated time and place. If the owner proceeds to secure, make a stated time and place or dangerous building or structure, or part thereof, and prosecutes the work in a manner satisfactory to the Building Inspector, the survey may be adjourned or cancelled, at his discretion.

Sec. 3. Survey. Should the Building Inspector consider it necessary, a survey shall be held. The Committee of Surveyors shall attend at the time and place specified, or as soon thereafter shall attend at the time and place specified, or as soon thereafter shall attend at the building or structure and report in shall fire opinion thereof to the Building Inspector. Should two members of the committee report the building or structure with a copy of the safe or dangerous, a copy of their report safe or dangerous, shall forthwith be posted in a conspicuous place upon the building or structure. A copy of their report of the building or structure. Inspector to the Town Attorney, who shall forthwith apply to the Court for an order, if he deems it legal, directed to the Building Inspector, commanding the the court to the building or structure or part thereof, or make the building or structure or part thereof, or make the building or structure or part thereof, or make

EGAL PROCEEDINGS

request by the Building Town Attorney to Proceed. Inspector, subject to appro mritten

take charge of and conduct all legal proceedings imposed or provided for by this Ordinance; and all suits or proceedings instituted for the enforcement of any of the several provisions of this
Ordinance or for the recovery of any penalty hereunder shall be
brought in the name of the Town of Golden Beach by the Town Atprosecution, and it shall be his duty to take charge of the prosemoney that may be collected upon judgments, suits or proceedings
so instituted, or which may be paid by any parties who have vioof judgment and removal of violations thereunder, execute satisfaction therefor. end conduct all

ing for the enforcement of the provisions of this Ordinance, the flown of Golden Beach may apply to the Court for an order enjoining and restraining any violation, ordering the property vacated or prohibiting its use for any purpose whatsoever, until the hearing and determination of such action and the entry of final judgment

and a notice of violation hereof, notice to make safe or of survey should be served, service thereof upon the agent of the owner collecting rents or having the management of the premises, or in the absence of such, upon the occupant shall be as effectual as if served upon the owner.

COMMITTEE OF SURVEYORS

three persons, one of whom shall be the Building Inspector, an architect, civil engineer or builder of at least three years said Town; another of whom shall be an practice in Bade or Broward County, appointed by the Mayor of neer or builder, of at least ten years practicing architect, engineer or builder, of at least ten years practicing architect, engineer of said building or structure. In case the owner fails to appoint, or, having appointed, the said representative fails to attend according to notice, the two surveyors first named shall another member, who shall be a practicing architect, engineer or at least ten years practice.

ARTICLE 35

son, firm or corporation unless the applicant therefor shall at the time of issuance of such permit make a deposit with the proper of Fifty Dollars, provided, however, that the aggregate of such deposits, made by one contractor, shall not at any time exceed entering into an agreement with said Town that the aggregate of such with is to be issued, clear the street and all property used by material, equipment, rubbish and other things placed or used by material, equipment, rubbish and other things placed or used by not so clear such premises, the said Town may appropriate such ing of such premises, the said Town may appropriate such ing of such premises as aforesaid and that, after such premises used in paying the expense of such clearance shall be returned to said applicant.

Sec. 2. For the purpose of this ordinance such construction or repair shall be deemed to have been completed when such building shall be occupied in part or in whole, after such construction or repair, or when such completion shall have been accomplished, or have been accomplished except for the doing of some minor thing which may necessitate a delay.

Said agreement shall be in substantially the fol-

"KNOW ALL MEN BY THESE PRESENTS: That I in consideration of the issuance to me by the Town of Golden Beach, in consideration of the issuance to me by the Town of Golden Beach, the following described property in said Town: the following described property in said Town: the following at or upon do hereby deposit with the Town of Golden Beach, Florida, the sum of Fifty Dollars, and I agree with said Town that, when such of Fifty Dollars, and I agree with said Town that, when such of the Ordinances of said Town, I will clear all premises used of the Ordinances of said Town, I will clear such premises immediately upon the completion of such construction within the mediately upon the completion of such construction within the mediately upon the completion of such construction within the sand meaning of such Ordinances, the said Town may clear the same and pay the cost of such clearance out of the aforesaid Fifty Dollars, pay the cost of such clearance out of the aforesaid clear said property immediately as aforesaid, then said Fifty Dollars shall property immediately as aforesaid, then said Fifty Dollars shall be returned to me.

day of WITNESS MY HAND 61 and seal at Golden Beach, Florida, this

Sec. 4. The Town Clerk receiving any funds pursuant to the terms of this Ordinance, shall deposit the same in the Town Treasury and disburse the same upon the authority of the Town Building Inspector.

RTICLE 36.

PLUMBING PERMITS

No person, as principal, agent, manager, or employee, shall place or install or cause or permit to be placed or installed, any plumbing including pipes, connections, fixtures, apparatus and all other plumbing work of any kind whatsoever; or make, or and all other plumbing work of any kind whatsoever; or make, or cause or permit to be made, any alterations, change in, addition cause or permit to be made, any alterations, change in, addition cause or permit to the more arritten permit for such plumbing work without first obtaining a written permit for such plumbing work without shall be denominated a "plumbing Permit" and shall constatement of the place, by street and number or by description statement of the place, by street and number or by description of the place, by street and number or by description statement of the place, by atreet and number or by description of the place, by atreet and number or by description statement of the Plumbing Inspector. The Plumbing Inspector theorets shall investigate such application, and applications for the introduction of supply of water into any premises or for the extention of pipe for the conveyance of such water, has been made sion of pipe for the conveyance of such water, has been made so printing on the contract form furnished by the Water Department of the Town of Golden Beach; and shall furnish drawings, specifications, plans and details of such contemplated work, specifications, plans and details of such contemplated work in the done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done without violating any of the provisions of this or-can be done of Golden Beach, and that the applicant therefor is the form of Golden Beach, he shall

issue a plumbing pleas therefor. If construed as an apings, specificationsofar as the same the ned as an approval by the Plumbing Inspector of the draw-specifications, plans or details of such contemplated world as the same, or any portion thereof, may be in conflict the provisions of this ordinance or any other ordinance governing such work in the Town of Golden Beach. Permit to such The issuance of such applicant, uce of a plumbing the Plumhan

or cause or permit to be done or performed, any work other than that designated in such plumbing permit, at the place mentioned therein; and shall not do or perform, or cause or permit to be done or performed any work designated in such plumbing permit a any place other than that designated therein. holder plumbing permit shall not be done or performed, any a

In case any plumbing is desired in the construction, alterapermit, no plumbing permit shall be issued until after a building permit for such building or structure shall have been previously issued. No plumbing permit shall be issued for repairing leaks in drain, soil, waste or vent pipe but should any trap, drain, soil, pipe, waste or vent pipe become so defective as to require or should any toilet, wash basin, laundry tray, sink, slop sink, slop hopper or any other fixture be taken up or reset, or be procured therefor. No person, as principal, agent, manager or septic tank in the flown of Golden Beach without having first obtained from the Plumbing Inspector a plumbing permit therefor. Such plumbing permit for a septic tank shall not be issued until the applicant has paid a permit fee of \$2.00. altera-

PERMITS

There shall be charged and collected by the ertification by the Plumbing Inspector, an inty-five cents (75¢) for each fixture in new plumbing work, before the issuance of a permishall be placed to the credit of the General colden Beach. The minimum fee for any permit I a permit, General Fu and reconstr t, which sai Fund of the shall be \$

a 占 W

COSTS

Any person, as principal, agent, manager, or employees, is required, without first obtaining a plumbing permit therefor, shall pay double the fee therein provided for a plumbing permit authorizing such work; provided that a double shall not be charged in cases of emergency work necessary to be done in order to present material injury or damage to property and provided that the issuance of a permit upon payment of such double fee shall not be a defense to a prosecution for a violation of any of the provisions vent material issuance of a a defense to a of this ordina

notice All plumbing work done shall be subject to tice be given to the plumbing inspector by the corporation doing such plumbing work or having so the work is ready for inspection. Such notice or inspection of both the rough and finished work irm or corporation doing such plumbing work shall irm or corporation doing such plumbing work shall irm or corporation doing such plumbing work shall be subject to the such plumbing work shall be subject to the such plumbing work shall be subject to the subject to shall NOTICE inspection and person, firm or Towship Holling es soon be given person, e O

representative on which the same is done, a of such owner. ó

RTICLE 40

WORK UNCOVERED

All plumbing work shall be left uncovered and convenient for examination until inspected and approved by the Plumbing Inspector. Floors shall be left up in bath-rooms and elsewhere above the plumbing, where there is less than twenty inches of space between the floor and joist and the ground, until the plumbing pipes and other plumbing work shall have been examined, tested and approved by the Plumbing Inspector.

RTICLE 41

TIME FOR INSPECTION

Inspection of plumbing shall be made within forty-eight (48) hours after a notice that the same is ready for inspection shall have been received by the Plumbing Inspector. рy

ARTICLE 42

TESTS

new The Plumbing Inspector may apply plumbing work. the water test

ARTICLE 43

ing : Where water is introduced into any building a stop-cock be placed so that water may be shut off from the whole build-and year hydrants, without closing the curb-cock.

No person shall occupy or make use of any house, building or other structure in which plumbing has been installed or constructed, until after the Plumbing Inspector shall have issued a final certificate and approval of the plumbing work therein, or in connection therewith.

RTICLE 44

MASTER PLUMBER

For the purpose of this ordinance, a master plumber shall be deemed to be the person engaged in or carrying on the business of plumbing or doing the plumbing work when licensed to do work in Dade and Broward Counties.

RTICLE 45

JOURNEYMAN PLUMBER

For the purpose of this ordinance, a journeyman plumber shall be deemed to be any person who is employed to do plumbing work for wages or salary, but who does not furnish any materials or supplies in the execution or performance of the plumbing work.

ARTICLE 46.

APPRENTICE

For the purpose of this deemed to be any person doing I vision and in the presence of certified journeyman plumber. ordinance, an apprentice shall plumbing work under the direct as certified master plumber or a super-

ARTICLE 47

SEWER CONNECTIONS

drainage or plumbing arrangements are constructed, shall first be inspected and approved by the Plumbing Inspector before any city sewer or structure shall be connected with an accepted the street, avenue or alley adjacent to the property upon which thereto, then such building or structure is situated or in close proximity four inch vent as provided for in this ordinance and all other fixtures in such building or structure shall be vented.

RTICLE 48

SEPTIC TANKS

When any building or other structure, in or for which any so as to require connection to a city sewer, then such drainage or plumbing arrangements shall be connected with a septic tank or less than ten feet from any dwelling, except when it is impossible to maintain these distances, then the less distance from property lines a permit for a septic tank at a same shall not be detrimental to health or unsanitary. Gravel the required to be placed around all field tile drain from

A separate dara shall required each kitchen

ARTICLE 49

SOIL AND WASTE PIPES

All soil, we of the foundation I brass, provided the fittings may be use Plumbing Inspector. waste and vent to a point (2) two feet outside on line shall be of tar coated cast iron, lead or that galvanized iron pipe and recessed drainage used with the consent and permission of the

masonry ğ Waste pipes from o soil, drain, waste or concrete walls; s Refrigerators may be suitable c chases shall be a of. galvanized iron built into

RTICLE 50

VENTS

den All ver highest or feet from terminate a opening om such v shall be extended up to and through roof a point not less than (1) one foot above the roof when located not less than (10)

feet Vent 00 covering for above the pipes which he finished roof terminate on roof used a building shall be ext. used for other purposes extended at least (7)

building. vent nor shall less than terminate than (10) t less than (1 ten feet from (12)twelve feet from

RTICLE 51

CAST IRON PIPE

be free from defects quality and weight: All materials used in any part of a plumbing system shall of any kind and shall be of the following All materials shall be extra heavy.

moved over an old sewer, such sewer shall be relaid with cast iron pipe of the same size as the old sewer. All terra cott sewer in any building or other structure shall be replaced or repaired In case of a building or other structure being built or with cast iron pipe. All terra cotta

ARTICLE 52.

TRAPS

pipe shall not be less than two inches in diameter, a trap larger than two inches in diameter, in which case the air a diameter not less than that of such trap, except in case of a single pipe may be used to went two traps, through the same Ansinage from one itting when such All traps shall be effectively vented with an air pipe of trap entering the other trap and is made of fitting has effective means to prevent the attached parts

Water Clos Slop sink Brinal tro Laundry to Kitchen s Bath tub Lavatory trough tray sink gral and l trap Branch

Vent rate sh Maximum Number of Tr t Pipe. The number of le shall be traps not le larger traps shall be i ing equivalents: f Traps allowed to be se of traps permitted unde t less than two inches i be figured as multiple t b be served by any additional the follow aches in diameter, tiple traps in the by any main e following ameter, and in the fol-

One to On trap trap p 4" diameter or over equal to 5 21/2" diameter equal to 2 2/2" diameter equal to 2 2" diameter equal to 5 2" diameter equal to 5 2" diameter equal to 6 2" diam Number Oť, Edari (as equal ੪ our (4) thiches foregoing equation) equal of four ť two (2) tr o four (4) trap. (4) traps. nches diameter to 6 (4) traps. traps 6 permitted on: ಕ್ಕ one Ξ trap.

- inch main vent 1/2 inch main inch main vent 1/2 inch main inch main vent

- inch main inch main main vent twenty-four (24) traps.
 Inch main vent thirty (30) traps.
 main vent sixty (60) traps.
 inch main vent one hundred fifty (150) traps.
 main vent two hundred (200) traps.
 main vent three hundred fifty (350) traps.
 main vent five hundred fifty (550) traps. vent
- the larges stack, it and if ove dependent largest size sick, it shall be if over forty Mbere necessary to increase the size of a soil or size shall be extended throughout and, if a nall be taken off the foot of the soil or wastforty (40) feet in length carried through the the main soil or waste stack, provided, that ead not be increased throughout. f a main waste st Tang e stack roof in-waste
- Lowed ţ0 Maximum Number of o discharge into discharge Ø fixtures a waste of or soil pipe equivalent t traps al-fied size.
- 2 inch pipe -provided that only twelve traps 1 only one urinal one 1/2 trap inch or ap shall less be p Soil permitted. pipes OH, inch
- was to pipe - sixty minor scombined. fixture traps.
- eight minor and two ma jor fixture traps.
- aps ar the are following table to be figured trap at the ratio of four mi minor to one
- inch inch edid edid edid edid edid eighty (80) one hundred three hundred to (180) 1 y (360) (630) 1 (1050) traps. traps. traps.
- Continuous plumbing shall be as follows: inch or wet vent on tl the continuous Wherever practicable, us or wet vent system

one

thousand

he stack and the fixture, and as many waste brained area of which do not exceed the area of sale connected under the same conditions governing astes and vents, provided, that in a sink or urievent shall be not less than three inches, but in two inches after rising above the sink or uried then be connected with stack above all fix hall then be connected with stack above all fix separate vent stack, or be carried through the branches, the com-f said revent, may ning the combined or urinal waste the but may be reduced r urinal; said revent l fixtures, or into

ture than into the ac Each vent nt pipe shall adjacent soil be connected above the highest fix-pipe if distant therefrom not more

two inches. shall be extended through edt

RTICLE 56

PLUMBING DETAILS

notice, The Plumbing Inspector, in approving plans or in accepting fork of any and all persons carrying on, conducting, assuming control of, constructing or causing to be constructed any plumbing or building or other structure drainage affecting the sanisary conditions of any building or other structure in the Town folden Beach, shall be governed by the following regulations, and it shall be unlawful for any person to fail, neglect or rejuse to comply with the same or any part thereof, upon reasonable notice, in writing, from the Plumbing Inspector so to do.

- (A) TOILETS. No water closet shall be put into or any property, building or other structure unless the same constructed as to be flushed by a tank containing not less four gallons of water, on some approved flushing valve. Piclosets, Philadelphia Hoppers, pen closets, front washout and other unsanitary closets shall not be installed in the of Golden Beach. Cell bowls shall be made to syphon. same ...
 t less that
 Plunger closet
- (B) TOP FIXTURES. A fixture that is a top fixture on a vertical stack and not more than three feet from the inlet to the stack, need not have its traps revented; provided it does not discharge into the stack below the level of its seal, except water-closets whose trap is in the bowl. All other traps shall be set true to their water seals.
- side of any building or other structure shall be of cast iron, extra heavy, lead or brass. All joints in cast iron waste pipes, whether inside or outside of the building line of such buildings or structures, shall be made of pig lead and oakum and shall be or structures, shall be made of pig lead and oakum and shall be thoroughly caulked. No cement of any description shall be used thoroughly caulked. No cement of any description shall be used the pipe. Galvanized wrought iron, lead, brass or galvanized iron pipe. Galvanized wrought iron pipe and fittings, known as the purham System, shall not be used below the first floor of any building or structure, or in the ground except in perpendicular waste lines. All cast iron soil pipes inside of property lines must be laid by a licensed plumber.
- with the plumbing of any building or structure, an portion of the drainage system of any building or portion of the drainage system of any building or covered or concealed from view, the outlet from the openings therein below the top shall be herme all openings therein below the top shall be herme and the pipe shall then be filled with water to the system. Cell pipes and fittings shown to in the system. Cell pipes and fittings shown to the control of the country of t e hermetically sealed or to the highest point hown to be defective ipes and fittings. and beconnection

pipes shall be provided with a trap screw ferrule at the foot and shall be provided with a trap screw ferrule at the foot and shall other places where necessary. The diameter of trap screw ferrules shall be not less than one inch of the diameter of the waste. All changes of direction of soil or waste pipes shall be made with full the pranches and one-eight bends, except when the waste is vertical.

All cleanouts shall be extended to outer walls or some point conventant of access, not closer than one foot to the wall. When soil and waste pipes are below coment or wood floors, or in places where the cleanouts are not accessible, the said cleanouts shall be brought of and above the floor or ground. An arm of two feet in any change of direction where one-eight bend can be used will be allowed. If possible all cleanouts to outside of building. ferrule change If

(F) WIPED JOINTS. All connections in lead piping shall joined by wiped joints. Connections between soil pipes and lead pipes shall be made with brass ferrules or brass solder nipples, such joints shall be wiped. and 9a

(G) WASTE PIPE SIZES. All waste pipes shall be of lead, cast iron or galvanized wrought iron of the following sizes, to-wit: for bath tubs, wash basins, and laundry trays not less than 1-1/2 inches; for sinks, slop hoppers and urinals, not less than two (2) inches.

in size as the wastes, except in sinks, urinals and wash basins. Sinks and urinals shall have 1-1/2 inch traps, and wash basins shall have one and one-quarter inch (1-1/4) traps, if not more than one have one and one-quarter inch (1-1/4) traps, if not more than one have one and one-quarter inch (1-1/4) traps, if not more than one has follows, to-wit: for two fixtures, 2", except as hereinbefore be as follows, to-wit: for two fixtures, 2", except as hereinbefore provided for sinks and urinals; for more than two and not exceeding provided fixtures, 2"; for more than eight and not exceeding sixteen fixtures, 2-1/2"; for more than sixteen and not more than twenty-eight fixtures, 3"; and for every additional sixteen fixtures an additional 1/2".

hoppers shall be not less than two inches in internal diameter. Where more than one water closet and slop hopper is vented through the same pipe the size of the pipe shall be as follows, to-wit: for more than one and not exceeding four, 2 inches; for more than four and not exceeding fourteen, 3 inches; for more than eight and not exceeding four, 4 inches; and for every additional ten closets or slop hoppers an additional inch. Every vent pipe run at a horizontal turn shall grade toward the fixture.

(J) VENT HEIGHTS. All vents shall rise perpendicularly or at an angle of forty-five or sixty degrees in the nearest partition or wall to four inches above the floor. Fittings known as "Y" branches shall be used where the vent is taken off the waste line below the fixture.

haust the di (K) PROHIBITED CONNECTIONS. No privy vault, cesspool, ext from engine or blow-off from boiler shall be connected with drain of any building or other structure.

building or structure, or the making of any addition thereto, if new plumbing fixtures are placed therein, either in the original or altered or added portion thereof such new fixtures shall be properly connected with the plumbing in the original parts of the building or structure; and if the fixtures are to be reset, either in the old or any new part of such building or structure, then both the original and additional fixtures, and all altered plumbing shall be made to comply in all respects with the provisions of this ordinance.

brass ferrule. All sinks outside of building line. let and horizontal runs. CLOSET BENDS. All clean outs shall be brought to shall have a clean out under sink out-Closet bends shall be of lead and

ARTICLE 57.

SEPTIC TANK OR SEWER VENT

above the roof. Every building or structure used for human hab tation shall have installed therein at least one toilet and one or septicatank shall have at least one 4 inch went pipe carried sink properly trapped and connected with sewer or septic tank. Every building or other structure connected to a sewer Every building or structure used for human habi-

RTICLE 58.

PRIVY VAULTS PROHIBITED

of Golden Beach vaults to be dug or constructed for temporary use, and shall which vault shall be dug or constructed in the Town except that the Flumbing Inspector may permit and shall

necessary will shut ing. In case it is he will notify the g necessary to shut water Department. the stop-cock at the build-t off the water at the curb

In all premises where steam boilers or hot water tanks are supplied with water from the water works, the owner must se are supplied with water from the water works, the owner must se that a suitable safety valve, vacuum, air or other valve or dethat a suitable safety valve, vacuum, air or other heavy vice, is placed, to prevent damage from collapse under heavy pressure or from explosion if water is shut off. In all cases pressure or fixtures where pressure is or can be generated, there or other fixtures where placed in the pipe between such fixture must be a check-valve placed in the pipe between such fixture must be a check-valve placed in the pipe beti and the meter. Where this is not done, the responsible for any damage to meter or other vice pipe and for cost of labor in repair of heaters 800 held

RTICLE 62

GALVANIZED IRON

All water pipes and all water fittings inside of build-ings and other structures shall be of galvanized iron, and all other water fittings shall be of galvanized iron.

ARTICLE 6

SIZE OF WATER PIPES.

The size of water pipe shall refer to the nominal internal diameter and shall vary with the number of fixtures supplied thereby, as follows: for nipples and tubing only, not less than three-eights of an inch (3/8"); tollet and lavatory supplies for not more than three fixtures, not less than one-half inch (1/2"); not more than twenty-four fixtures, not less than three-quarter inch; for not more than eighty fixtures not less than one and one-fixtures, not less than one and one-fixtures, not less than one and one-half inches; for not more than three-hundred and fifty fixtures and for every additional one three hundred fixtures, two inches and for every additional.

RTICLE 64

PROHIBITED FITTINGS.

branches and single "I stacks. No fittings sependicular waste lines lowed on bottom of was sleeves sha le hubs, straight crosses, straight "I's" or short turn not be used on soil or waste pipe. Bands, saddles shall not be used in any case. Double sanitary "I" single "I's" are prohibited, except in perpendicular fittings shall be used between the bath trap and per-yaste lines. "L's" or quarter bends will not be altrom of waste stacks. Two one-eight bends shall be

RTICLE 65

TRAP SEAL.

Oť, ton Every trap shall have a seal with an internal less than that of the trap.

ARRANGEMENT

and shall be so arranged as shall be placed every seven every ten feet apart on gal all be as straight and danged as to be readily iry seven feet apart on c inspe direct Hangers possible

Ħ Н I C L E 67.

DRAINAGE EXCAVATIONS.

r other strunt the walls therein sha excavations required for the installation or structure drainage system, or any part the walls of such building or structure, shall and all such trenches shall be kept open have been inspected. installation of a build-or any part thereof, shall be open open until the

IC 68

shall immediately remove and replace any and all defective material and any and all defective work, when required so to do by the Plumbing Inspector. Every soil pipe, drain pipe, vent, water closet, urinal, sink or other fixture set up or any fittings laid, nance, or any other ordinance or law regulating such work in the ous or in any way unfit for service, shall upon notice, either verbal or in writing from the Plumbing Inspector, be removed or from the Plumbing Inspector and shall be made to comply with the provisions of this ordinance and of every other and with the fixed in such work in the regulating such work in the provisions of this ordinance and of every other and with the fixed in such work in the fixed work in the fixed in such work in the fixed work in the h notice or Inspector. with such notice or ector and shall be mainance and of every on the Town of Golden or within any extension

Ħ Н I C

CONDEMNATION

Where a building or structure has been inspected and the plumbing work condemned by the Plumbing Inspector as being in an unsanitary condition, notice to that effect shall be given in writing by the Plumbing Inspector to the cowner, agent or occupant of such building or structure, and in such notice shall designate the repairs or improvements required to be made. If the owner, agent or occupant objects to such condemnation or to the making such notice, appeal to the Town Council from the decision of the Plumbing Inspector. Such appeal shall be taken by filling with in writing, stating the objections to such condemnations or to such repairs or improvements and a statement that he appeals to the Town Council.

If an appeal is so taken by such owner, the same shall come on for hearing at the next the Town Council, but may be continued to other said Town Council, provided notice of the time ing is continued shall be given to such owner, and the Town Council may hear evidence and arguing and may affirm, reverse or modify the orders and may affirm, reverse or modify the orders. pec. may hear evidence a reverse or modify ision of the Town C the next regular meeting of to other meetings of the the time to which such hear-h owner, agent or occupant; argument the Plumbing the such an appeal

building or stantially less to sanitary and no and the order of owner, agent or improvements as improvements Plumbing lding or s he same shall be condection of said funding Inspector to When en plumbing, Inspector to post structure one or mon the following for Is may be required by the last the commenced within the said Town Council, it; may be re eal Plumbing en as herein provided, or, if taking Inspector is affirmed or modint shall immediately make such required by the Town Council and the founcil form: more at some con conspicuous days s after no the duty or modified, such repairs and notice on such

"WARNING"

"This building (or sanitary and unfit for hi unlawful for any person the Town Council." ¿ (or structure) has or human habitation son to live in or us has O. been condemned the same. SB it is order it un-Ç,

Plumbing rotoedsur

spector, or by so to do; and i business or building c required account same. live Such notice may be i g or structure until the same shall de and the same shall or occupy such person as a fit shall be unlimated and the plumbing and shall have been made live in or occupy such residence ; thereof, or r as agent, structure until the repairs or improvements shall have by such person as may be authorized by the Plumbing Indit shall be unlawful for any person to remove or after building or structure has been placarded on a structure has been placarded on the repairs or improvements in or occupy such building or structure, whether for residence purposes, or to rent, let or hire the same thereof, or to collect, receive or pay any rent there. as agent, owner, tenant, or otherwise. in the typewriting and shall remain on such the repairs or improvements shall have then be removed by the Plumbing Interest may be authorized by such official

Н a 0

DISPLAY SIGN

Town Every of (a sign showing corporation. y person, ilru Golden Beach fan showing th firm the CS or corporation installing thall, at the place of such full registered name of g plumbing in ch installation, such person, person,

Ħ H С 四

PENALTIES

Every person, as principal, agent, manager violating, failing, neglecting or refusing to compthe provisions of this ordinance shall be deemed a demeaner and, upon conviction thereof, shall be pure to exceeding Two hundred (\$200.00) Dollars or by in the Town Jail for not more than ninety days, or and imprisonment; and every day during any portion of the provisions of this ordinance shall be viols. shall <u>ө</u> punished rs
f days
f days
typortion of
the violated
as herein manager or guilty of a punished by imprisonment employee, with any which any shall con-provided. ည Ø mis-a fine

APPOINTMENT INSPECTOR

Plumbing I y the Town Inspector n Council. Ω μ. ် <u>ө</u> appointed рy the Mayor

ELECTRICAL PERMITS

Electrical Inspector, after investigation, is satisfied that the work desired can be done without violating any of the provisions of this ordinance, or of any other ordinance or law yetsions of this ordinance, or of any other ordinance or law governing such work in the Town of Golden Beach, and that the applicant therefor is duly licensed to do electrical work in payment of the fees therefor. The issuance of an electrical permit shall not be construed as an approval by the Electrical Inspector of the drawings, specifications, plans or details of such contemplated work insofar as the same, or any portion thereof, may be in conflict with the provisions of this ordinance or any other ordinance or law governing such work in the flown of Golden Beach. The holder of an erming such work in the flown of Golden Beach. The holder of an such electrical permit at the place mentioned therein; and shall not do or perform, or cause or permit not do or perform or cause or permit to be done or perform or cause or permit to be done or performed any work other than that designated in such electrical permit at any place other than that designated therein. In case any electrical work is desired in the construction, alteration or repair of any building or structure requiring building permit, no electrical permit shall be issued until after a building permit for such building or structure shall have been previously issued. visions scription governing such work cription sufficient to locate the same, where such work is edone thereing plications therefor to the Electrical Inspector. If the he work desired can be done without violation, is satisfied the isions of this ordinance. permit he Electrical shall be deno hall be denominated "An Electrical Permit" and a description of the work to be done thereunder nt of the place by street and number or by described permits shall be same, where obtaining es principal, install or corrected to the second terms of the seco any kind whatsoever; agent manager or or permit to be p fixtures, appara apparatus or or satisfied that satisfied that e, or cause o addition to placed or thereunder other Beach. 013

74.

PERMIT FEES FOR ELECTRICAL INSTALLATIONS, CONSTRUCTIONS AND INSPECTIONS.

Permits provided for in this ordinance shall not be issued Electrical Inspector until the following inspection fees have been paid to the Town Clerk or Inspector.

minimum

\$5.00

OUTLET'S

5 Outlets, inclusive each additional outlet

FIXTURES

1 to 5, lights, inclusive For each additional light

1.00

SPACE OR PORTABLE

For each space or portable heater

HEATERS

| 1 | Fees to be based on equipment involved. Winimum fee | ALTERATIONS & ADDITIONS | For each change in service For each new service For each temporary service | SERVICES | l Center of Distribution For each additional Center of Dis- tribution | CENTERS OF DISTRIBUTION | For each motor 0 to 1 H.P. inclusive " 1 to 5 H.P. " " 5 to 25 H.P. " " " 25 or over | MOTORS | 1 Refrigerator outlet For each additional outlet | REFRIGERATORS | l Range or water heater For each additional range or heater | RANGE OR WATER HEATERS | Each 1000 Watts of strip heater | The first of the second |
|---|---|-------------------------|--|----------|---|-------------------------|---|--------|---|---------------|--|------------------------|---------------------------------|--|
| | 00.00 | Y) 0 | 1.00 1.00 | | 1.00 .50 | | 2.50 2.50 5.50 | | 1.00 25 | | 1.00 50 | | 25 | |

7 5

INSTALLATION OF ELECTRICAL TUBING

The use of metallic electrical tubing as a raceway for electrical wires is hereafter forbidden in the Town of Golden Beach, Florida, in the following locations:

- Wherever the tubing is exposed outside of buildings, overhead to the weather, services, etc. such as
- on the Wherever the electrical tubing comes in contact with the soil or cinder concrete.
- 3. In any location where the electrical tubing is exposed to actual physical contact with water or corrosive action of liquids or gases.
- 4. In any concrete slab, the ground level. ARTICLE column beam within three feet

SPECIFICATIONS ON SERVICE EQUIPMENT.

TABLE No. 1

220 V - 3 WIRE SINGLE PHASE *

| 600 H | 400 # | 200 m | 100 # | 60 AMP | MAIN SERVICE SWITCH | - |
|-------------|---|--|---------------------|----------------------|-----------------------------------|---|
| 600M 450 | 4/0 | 1/0 | 1-3 | # 8 | ENTRANCE MIN. WIRE FU | |
| • | 225 5 | 125 | 100 | 35 A. | FUSE: | |
| M006 | 500M | 4/0 | H | # 4 | NCE CONDUCTORS MAX. F | ~ |
| 600 | 400 | 200 | 100 | # 4 60 A. | RS FUSES | (|
| 4/0 | 2/0 | 4 | œ | # 8 | MINIMUM GROUNDING CONDUCTOR | |
| 1-4-# ## | بر • • • • • • • • • • • • • • • • • • • | H | 4 | 3/4" | MIN. PIPE TO DRIVEN GROUND | |
| * | 3 = | ## - - - - - - - - - - - - - - - - - - | # - - - | بر 144 : | OVERHEAD CONDUIT OR TUBING | |
| 4-22 | Ω - μ - = | 20 □ □ 20 | N | بر ا بران ع | UNDER- GROUND CONDUIT | |

RTICLE 77.

RING OF DISTRIBUTION PANELS

TABLE No. 2

20 V - 3 WIRE FEEDERS.

| # 4 | # 6 | # 8 | #10 | #12 | Panel Circuits |
|---------------|-------|----------|------|------|-------------------|
| | | | | × | ಣ |
| | | ٠ | × | | 4 |
| | - | × | - | | 0 |
| | | × | | | 8 10 |
| | | × | | | 10 |
| ŧ. | × | | | | 12 |
| | × | | | | 14 |
| | × | | | | 16 |
| | | | | | , |
| × | | | | | 18 |
| × | | | | | 20 |
| × | | | | | 10 |
| ## 하는 는 | 14:11 | – | 3/4" | 3/4" | Panel Circuits |

ARTICLE 78.

SPECIAL REQUIREMENTS ON ITEMS OF GENERAL USE.

RACEWAYS IN POURED CONCRETE

Conduit and/or tubing installed in poured concrete slabs shall be layed over all reinforcing steel and rigidly held in place by wiring same to reinforcing steel or other approved method. Pipe centers between outlet boxes (over eight feet) shall be raised and supported in place so the drainage will be toward the outlet boxes. No unsupported walk or runway shall be placed upon any conduit and/or tubing after same is in permanent position.

CONCRETE OUTLET BOXES

Where outlet boxes occur in poured concrete, crete outlet box of the proper depth shall be used. age over the top of an outlet box shall be not less an approved con-Concrete cover-than one inch.

INDERFLOOR PULL BOXES.

Conduit and/or tubing under main or ground floor of any building not having a finished basement shall be continuous within that floor area. Use of bleeders, fittings or pull boxes in such pipe runs within said area is forbidden.

SERVICE SWITCHES

A Main Service Switch or Circuit Breaker of an externally operable lever type approved for the prefailing conditions (such as exposure to weather) shall be provided for each set of service entrance conductors, and located at a readily accessible point nearest to the entrance of the conductors, either inside or outside the building wall. Exceptions to this ruling are forbidden except by the permission of the Electrical Inspector.

Sixty rent The Main Service Switch shall have a rating of not I Amperes (60amp) and shall be fused in accordance with carrying capacity of the Service Entrance Comductor. less than h the cur-

GROUP SERVICE SWITCHES

one main The ampere rating of a group of switches used instead of a service switch shall be considered the sum of the ampere of all the switches in the group.

ERVICE ENTRANCE SWITCHES

90 Service entrance conductors to amy building of occupancy shall controlled by an accessible service entrance switch or switches.

METER CONNECTIONS

All meter connections shall be enclosed with metal enclosure. Conductors shall not be reduced in size or the current carrying capacity altered between a source of supply and its first point of distribution.

RANGE EQUIPMENT

Minimum for range circuits shall be number six (6) wire and one and one-quarter inch conduit and/or tubing to range outlet. Fr range outlet to stove flexible metallic tubing not smaller than one (1) inch shall be used. and From

WATER HEATER EQUIPMEN

Minimum for water heater circuits shall be number ten (10) wire and three-quarter (3/4) inch conduit. Flexible connection to water heater cabinet shall be not less than three-quarter (3/4) in flexible metallic tubing, (exposed only). inch

SPACE HEATER EQUIPMENT

Minumum for space heater of wire, and one-half (1/2) inch conduction of the wires through space heater space heater circuits shall be number twelve (1/2) inch conduit and/or tubing. By_passing ugh space heater enclosures is forbidden. of (31)

Conduit be mo mounted in and/or tubing shall enter t a point on the sides near In the top of space heater space des near the bundeater er enclosures. e heater bottom. enclosures Switches s at shall

IRON OUTLETS

Iron outlets ing switch, an ual circuit. and : single receptable, and shall be ipped with **ဝ** ဝ စ fed to fed t light.

sidered 8 iron receptacle iron outlet and ad jacent shall ξÓ o e 8 an ironing equipped a 80 board shall

laundries shall have р СТ iron outlet.

UNDERGROUND FEEDERS

permitted for underground circuits. Conduit smaller than three-quarter (3/4) inch will not be

PANEL FEEDERS

The minimum for panel feeder circuits shall be number twelve (12) wire and three-quarter (3/4) inch conduit.

RECESSED LIGHTS

All metal enclosures for recessed lights coming in contact wood or other combustible materials shall be covered with not than one-sixteenth (1/16) asbestos sheet. with not

DISTRIBUTION PANELS

In no case shall a distribution panel be located within a

PIPE STRAPS

bathroom or toilet.

The use of pipe straps is required on conduit and/or tubing

ARTICLE 79

wherever possible.

switching enclos connecting pipe proved fitting w jumper to the ma See Table No. 1 ere the cor which shall main service I for jumper sure not equipped with thread shall be equipped with a wed which shall be connected by asin service switch neutral black jumper sizes. shall t the driven ground threaded connect the wedge lug or ted by a suitable atral block or swi en ground connectio or other ap-ble grounding switch neutral. enters ons the

ROUNDING EQUIPMENT

All metallic raceways leav than a metallic finish shall be e approved fitting which shall be c block or switch neutral of the ma jumpers of the size as shown in T ing centers of distribution other ing ce which shall h have a metallic l be considered as connections will size as shown in Table not main served istribution other than the main serve tallic finish, double locknuts on circlered as sufficient grounding equipments will be considered as a sufficient main serve the threaded fittings. I be equipped with wedge lugs or l be equipped with wedge lugs or l be connected to the switch neu the main entrance switch by bond on in Table No. 1. Enclosures on other than the main service swith double locknuts on circuit rank. having other by bonding osures contain-vice switch and reuit raceways neutral ರ್ಷ ' other

EMPORARY SERVICES

part plice t of any el Permits its for temporary services will be issued only for that electrical installation that is designated in the appreciation to the Electrical Inspector.

Temporary switch, shall be connected to any written consent o of the service for other than that to the permanent main for temporary equipment only and shall not be part of the permanent installation without the of the Electrical Inspector.

apparatus installation switch in ac h in accordance any to be serviced through the permanent main service lance with a temporary service permit issued for circuits, apparatus and/or equipment of the election shall be disconnected from the main service lectrical Contractor so that only that circuit, uipment mentioned in the service permit may be ser-

ARTICLE 80

CONNECTED LOAD WATTAGES

values to be When n Table # the ~ equipment n computing conn #3 shall be con uipment listed. connected load considered the wattages, the minimum wattages

TABLE NO.

CONNECTED LOAD WATTAGES

| Mfgrs Rating | (Above Fractional) | MOTORS |
|------------------|----------------------------|----------------------|
| 13200 | (Domestic | RANGES |
| 3000 | | WATER HEATERS |
| 3000 | (Other than bath room | SPACE HEATERS |
| 3000 | (Commercial) | TOASTERS |
| 1320 | (Mfgrs. Rating) | NEON TRANSFORMERS |
| T000 | (Bath Room only) | SPACE HEATER |
| 1000 | (Domestic) | IRON |
| 660 | (25 Watt lamp each) | SURIP LIGHTING |
| 660 | (Domestic) | REFIRIGERATOR |
| 66C | (Fractional over 1/4 h.p.) | MOTORS |
| 1000 | | MOGUL SOCKETS (each) |
| 660 | | LIGHT |
| MINIMUM WATTAGES | | EQUIPMENT CIRCUITS |
| | | |

ELECTRICAL. ENCLOSURES

shall have

All enclosures for other approved electrical conductors metallic finishes. gal-

In no case shall encle non-metallic surfaces by special permission shall enclosures having painted, enameled or surfaces be used as electrical enclosures enameled or surfaces be used as electrical enclosures enameled or

When and if painting of enclosures is required, such paint-all be done after all enclosures and circuit raceways are in Interruption of circuit raceway continuity by the use of enamel or other non-metallic coverings is forbidden.

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NON-TAMPERABLE PROTECTIVE DEVICES

All protective devices of 30 grounded conductors having not more be of a non-tamperable to amperes or less used on than 125 volts to ground sed on wnder-ground, shall

shall of the Protective devices of the non-tamperable fuse plug type conform to the requirements of Article #240, Section 2452 National Electrical Code of 1937.

Protective devices of the non-tamperable circuit shall conform to the requirements of Article #240, of the National Electrical Code of 1937. breaker Section

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SOLDERLESS CONNECTORS

Wherever stranded conductors terminate in solderless, the strands of the stranded conductors entering the soldenector shall be soldered together for a distance equative bearing surface of the solderless connector. equal ss connec-solder-equal to

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INSTALLATIONS

All electrical construction, all material and all appliances used in connection with electrical work and the operation of electrical apparatus shall be in conformity to the rules and regulations set down in what is known as the "National Electric Code" of rules and regulations of the National Board of Fire Underwriters for the installation of electric wiring and apparatus as the same are now established or as the same may hereafter be established from time to time.

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INSPECTION

The Town Electrical Inspector shall have the right in the discharge of his duties to enter any building for the purpose of examining and testing the electrical appliances therein or contained, and for that purpose he shall be given prompt access to all buildings, public and private, on application to the individual or company owning or in charge of same.

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엵 INSPECTION

Upon the completion of the wiring of 5.4 any building for light,

dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector, who dividual doing the same to notify the Electrical Inspector. a certificate of satisfactory inspection, but no such certificate shall be issued unless such electric wiring and appliances be in strict conformity to the rules and regulations quired by this ordinance, nor shall current be stallation until said certificate be issued. be the duty of the company, firm or in-

and any case in which any person, firm or corporation shall continue to or persistently violate the ordinance of the Town in regard to Electrical affairs ten days, by the nown Electrical Inspector, shall not receive ten days, by the nown Electrical Inspector, shall not receive ten days, by the nown Electrical Inspector, shall not receive ten days, by the nown Electrical Inspector, shall not receive ten days, by the nown Electrical Inspector, shall not receive defect or defects in his work, after having been duly notified, Any person, firm or corporation who shall fail to correct the license of such person, firm or corporation shall

the same,