PROPOSED WAREHOUSES FOR:

S.L.H. INC.

1200 & 1180 SOUTH ROGERS CIRCLE

BOCA RATON, FLORIDA

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LANDSCAPE ARCHITECTS & PLANNERS
132 NORTH SWINTON AVENUE, DELRAY BEACH, FL 33444
PH. (561) 276-5050

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BURTON BRASWELL MIDDLEBROOKS ASSOCIATES, INC.
3998 FAU BOULEVARD, SUITE 309, BOCA RATON, FL 33431
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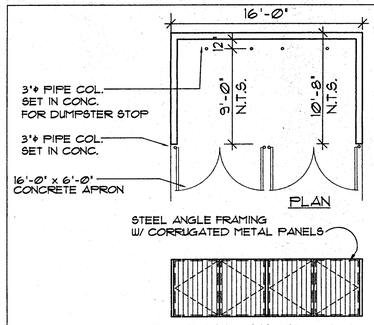
CIVIL ENGINEERS :
ENVIRODESIGN ASSOCIATES, INC.
298 PINEAPPLE GROVE WAY, DELRAY BEACH, FL 33444
PH. (561) 274-6500

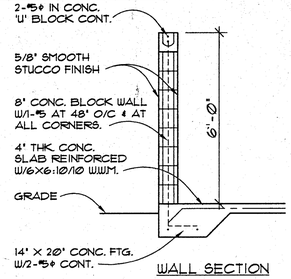
CONSULTING ENGINEERS: ELECTRICAL/HVAC/PLUMBING
STOFFER & ASSOCIATES
13902 SMOKERISE CT. , ORLANDO, FL 32832
PH. (407) 381-4555 FAX (407) 249-1520

FIRE ALARM DESIGN:
ADVANCED FIRE & SAFETY
1001 W. CYPRESS CREEK RD., # 116, FT LAUDERDALE, FL 33309
PH. (954) 771-7070

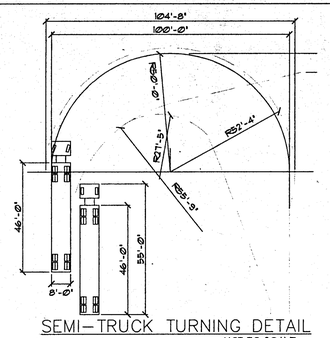
FIRE SPRINKLER DESIGN :
GATOR FIRE PROTECTION, INC.
4500 OAK CIRCLE, BOCA RATON, FL 33431
PH. (561) 416 - 1122

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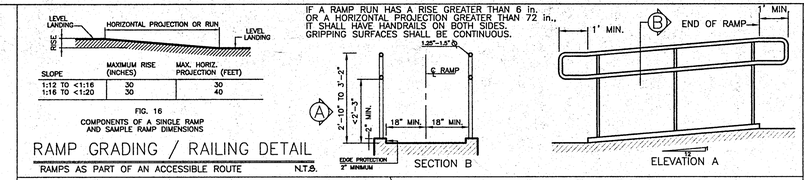




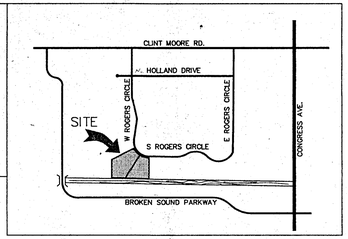
DUMPSTER ENCLOSURE DETAIL
NOT TO SCALE



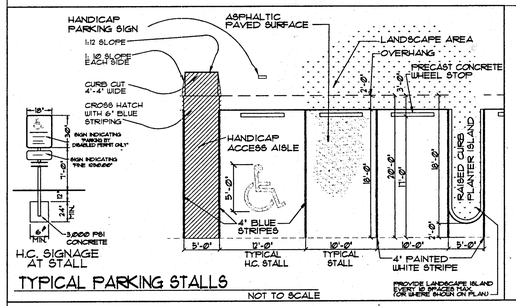
SEMI-TRUCK TURNING DETAIL
NOT TO SCALE



RAMP GRADING / RAILING DETAIL
RAMPS AS PART OF AN ACCESSIBLE ROUTE N.T.S.



LOCATION SKETCH
NOT TO SCALE



TYPICAL PARKING STALLS
NOT TO SCALE

SITE DATA

EXISTING ZONING = M - 3

SITE AREA
GROSS SITE AREA = 249,269.51 SQ. FT. = 5.72 AC. = 100.0%
BUILDING FOOTPRINT = 93,082.8 SQ. FT. = 2.14 AC = 37.4%
2nd FLOOR OFFICES = 19,088.41 SQ. FT.
GROSS BUILDING AREA = 112,171.3 SQ. FT.
OFFICE AREA (GROUND FLOOR) = 18,616.6 SQ. FT.
OFFICE AREA (SECOND FLOOR) = 19,088.41 SQ. FT.
OFFICE TOTAL = 37,705.03 SQ. FT.
WAREHOUSE TOTAL = 74,466.24 SQ. FT.
BUILDING TOTAL = 112,171.27 SQ. FT. = 45%
(MAXIMUM FAR PERMITTED = .45 = 249,269.5 x .45 = 112,171.0 SQ. FT.)

IMPERVIOUS AREAS = 127,769.5 SQ. FT. = 2.93 AC. = 51.2%
(SIDEWALK = 3,211.1 sq. ft.)
(DRIVE, & PARKING = 124,642.4 sq. ft.)
LANDSCAPE AREA = 28,439.2 SQ. FT. = .65 AC = 11.4%

PARKING:
WAREHOUSE = 74,466.24 S.F. / 750 = 99.28 CARS
OFFICES = 37,705.03 S.F.
FIRST 4,000 S.F. @ 200 / CAR = 20.00 CARS
REMAINING 33,705.03 S.F. @ 300 / CAR = 112.35 CARS
TOTAL PARKING REQUIRED = 232 CARS
TOTAL PARKING PROVIDED = 245 CARS
TRANSFER TO PARKING FOR EXISTING BUILDING (LOT 8) = 2
TOTAL OF PARKING SHOWN = 247
REQUIRED NUMBER OF ACCESSIBLE SPACES = 7 SPACES MIN. AS PER F.A.C.B.C. 1991 EDITION - SECT. 4.1.2 (5)
PROVIDED = 7 SPACES

LEGAL:
LOTS 9 AND 10 BLOCK 3 OF SOUTH CONGRESS INDUSTRIAL CENTER ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 33, PAGES 45 AND 46 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, LYING AND BEING IN THE CITY OF BOCA RATON, PALM BEACH COUNTY, FLORIDA.

NOTES:

DRIVEWAYS FOR FIRE TRUCKS:
ALL DRIVEWAYS ARE DESIGNED TO ACCOMMODATE THE LARGEST FIRE DEPARTMENT TRUCK.
LIGHTING-EXTERIOR
EXTERIOR LIGHTS SHALL BE IN ACCORDANCE WITH SECTION 23-241 OF THE CITY OF BOCA
SEWER AND WATER:
SHALL CONNECT TO EXISTING SEWER LINES
IRRIGATION:
MORE COMPLETE INFORMATION WILL BE PROVIDED AT P.W.R.C. COMPLETE DRAWINGS AND INFORMATION TO BE SUBMITTED AT TIME OF PERMIT APPLICATION.
FIRE SPRINKLER & ALARM SYSTEM:
SHALL BE IN ACCORDANCE WITH ALL PREVAILING CODES. ALL BUILDINGS SHALL HAVE FIRE SPRINKLERS SYSTEM AND FIRE ALARM SYSTEMS.
BUILDING:
ONE STORY, TILT UP CONSTRUCTION
BUILDING MATERIALS: CONCRETE FLOOR SLAB, CONCRETE TILT UP WALLS, STEEL JOIST ROOF DECK, METAL TRIM WORK.

DUMPSTER ENCLOSURE AS PER CITY CODE. (SEE DETAIL THIS SHEET)

EXTERIOR LIGHTING: ALL OUTDOOR LIGHTING ON THIS PROPERTY MUST BE IN ACCORDANCE WITH SECTION 23-241 OF THE CITY CODE.

BUILDING HEIGHTS: 26'-0" (MAX.) TO MATCH EXISTING BUILDINGS.

FIRE SPRINKLER: ALL BUILDINGS SHALL BE WILL BE FITTED WITH A FIRE SPRINKLER SYSTEM AS PER CITY OF BOCA RATON FIRE DEPARTMENT.

OFFICES: ALL OFFICE SPACE WITHIN THIS PROJECT IS ANCILLARY TO THE WAREHOUSE SPACE IT SERVES.

CAB CALCULATION:
GROSS VEHICULAR AREA = 124,642.4 SQ. FT.
LANDSCAPE AREA WITHIN VEHICULAR AREA = 19,384.2 SQ. FT.
19,384.2 / 124,642.4 = 15.5 %

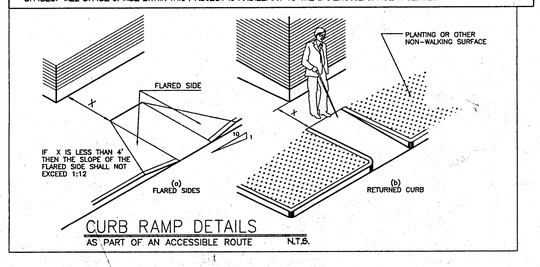
ZONING: M-3
USE: WAREHOUSE / ASSOCIATED OFFICES

OPEN AREA
249,269.5 # (gross site area)
- 93,082.8 # (building footprint)
- 127,163.4 # (parking lot) + 28,439.2 # OPEN AREA
28,439.2 # (open area) / 249,269.5 # = 11.4%

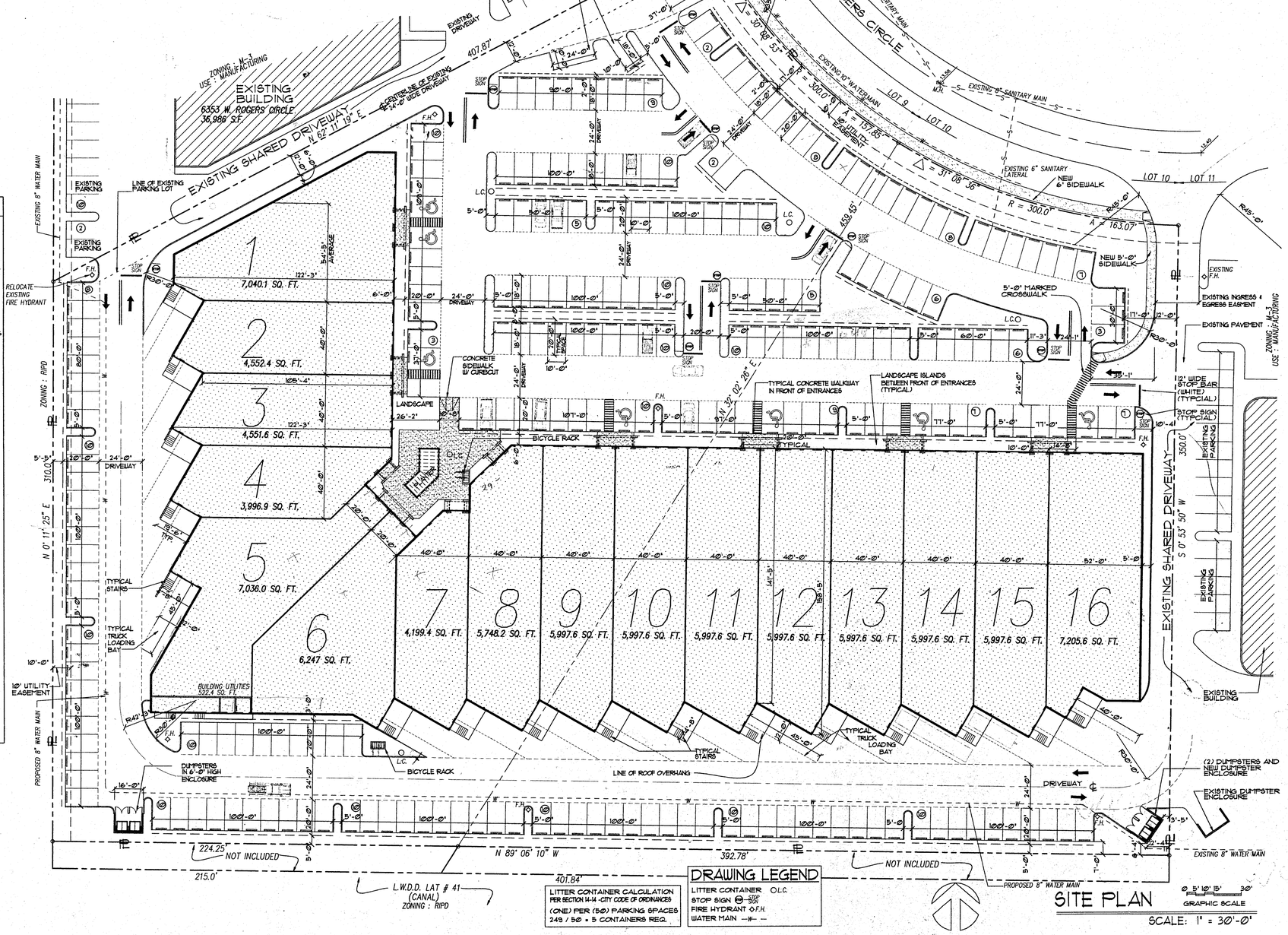
ESTIMATED UTILITY CALCULATION:
ESTIMATED SEWER DEMAND :
1/10 GAL. PER S.F. :
112,171.3 x .1 = 11,217.13 G.P.D.

ESTIMATED WATER DEMAND :
1.35 GAL. x SEWER DEMAND
11,217.13 x 1.35 = 15,143.1 G.P.D.

EXISTING PARKING LOT 8: 14 SPACES
(2) REMOVED FOR PROPOSED DRIVEWAY - TRANSFER FROM PROPOSED PARKING AT LOTS 9 & 10 (SEE PLAN)



CURB RAMP DETAILS
AS PART OF AN ACCESSIBLE ROUTE N.T.S.



SITE PLAN
SCALE: 1" = 30'-0"

LITTER CONTAINER CALCULATION
PER SECTION 14-14 -CITY CODE OF ORDINANCES
(ONE) PER (50) PARKING SPACES
249 / 50 = 5 CONTAINERS REQ.

DRAWING LEGEND
LITTER CONTAINER O.L.C.
STOP SIGN STOP
FIRE HYDRANT ⊙F.H.
WATER MAIN —W—

Revisions:

Project: PROPOSED WAREHOUSES for:
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BOCA RATON, FLORIDA

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Contents: SITE PLAN

MIKLOS & ASSOCIATES P.A. ARCHITECTS/PLANNERS
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Cert. No.: AA0002282

Job # 14000

Date: AUG. 18, 2000

Drawn by: EAB

Checked by: GM

Sheet SP-1 of 1

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GENERAL NOTES AND CONDITIONS:

1. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING PROPOSALS. NOTIFY THE ARCHITECT IN WRITING IF CHANGES ARE NECESSARY. REPORT ANY DISCREPANCIES IN THE DOCUMENTS TO THE ARCHITECT PRIOR TO SUBMITTING PROPOSAL.

2. SUBCONTRACTORS SHALL PROVIDE PROTECTION OF EXISTING SURFACES AND COMPONENTS DURING CONSTRUCTION. ALL REPAIRS OF DAMAGED SURFACES AND MATERIAL AS WELL AS CLEAN UP SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND OBTAIN ACCESS TO THE SITE WITH THE PROPER AUTHORITIES. VERIFY ACCESS RESTRICTIONS WITH THE OWNER PRIOR TO COMMENCEMENT.

4. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS INCLUDING THE LATEST EDITIONS OF THE NATIONAL FIRE CODE, NFPA 101, LIFE SAFETY CODE, FLORIDA ACCESSIBILITY CODE, THE AMERICANS WITH DISABILITIES ACT, AND LOCAL BUILDING CODES HAVING JURISDICTION.

5. THE CONTRACTOR SHALL OBTAIN AND BEAR THE COST OF ALL REQUIRED PERMITS, LICENSES, AND APPROVALS NECESSARY FOR THE COMPLETION OF THE WORK.

6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION OF OWNER AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

7. THE CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE WITH EACH OTHER TO PREVENT OVERSTEPPING EACH OTHER DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS NECESSARY TO MAINTAIN CONSTRUCTION SCHEDULING. THE SUBCONTRACTOR SHALL BE RESPONSIBLE TO MEET THE SCHEDULE AS PROVIDED AND AGREED TO WITH THE CONTRACTOR PRIOR TO CONSTRUCTION.

8. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A WORKMANLIKE MANNER.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING WORK:

- PROVIDING BARRICADES, TEMPORARY POWER, LIGHTING, TELEPHONE SERVICES, ETC. AS REQUIRED TO COMPLETE WORK.
- TEMPORARY UTILITIES, CONNECTIONS, AND PAYMENT OF ALL UTILITY CHARGES DURING CONSTRUCTION.
- COORDINATION WITH THE OWNER OR AGENT OF DELIVERY AND REMOVAL OF MATERIALS, EQUIPMENT, AND OTHER ITEMS TO/FROM SITE.
- REMOVAL OF TRASH AND DEBRIS -- TO BE PLACED IN DESIGNATED CONTAINERS AS DIRECTED BY OWNER / AGENT. REMOVE ALL TRASH FROM PREMISES.
- ISSUE ALL ADDENDUM'S, REVISIONS AND UPDATES TO SUBCONTRACTORS IN A TIMELY MANNER.

10. ALL DRAWINGS, SPECIFICATIONS, AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO CHANGES, ADDITIONS, OR DELETIONS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF COMPLETE AND CURRENT DRAWINGS AVAILABLE FOR REVIEW AT THE JOB SITE AT ALL TIMES. ALL FIELD MODIFICATIONS TO THE ORIGINAL CONSTRUCTION DOCUMENTS SHALL BE NOTED AND MAINTAINED FOR THE OWNERS RECORD COPY.

11. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH ALL ITEMS FOR A COMPLETE ELECTRICAL, MECHANICAL, PLUMBING AND TELEPHONE SYSTEM. ALL SHALL MEET THE REQUIREMENTS TO BE PLACED INTO PROPER WORKING ORDER AND MEET ALL LOCAL AND NATIONAL CODES REGULATING.

12. DIMENSIONS INDICATED ON THE PLANS ARE FINISHED FROM FACE TO FACE, EXCEPT IN THE CASE OF COLUMNS, ETC. THAT ARE SHOWN WITH A CENTERLINE. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DO NOT DEVIATE FROM THE WRITTEN DIMENSIONS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT. DEVIATION IS NOT PERMITTED WHERE 'CLEAR' OR 'HOLD' DIMENSIONS ARE INDICATED. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN THE PLANS OR SPECIFICATIONS.

13. ALL MATERIALS USED IN PERMANENT CONSTRUCTION SHALL BE NEW AND UNUSED (UNLESS NOTED OTHERWISE), FIRST QUALITY, FREE FROM DEFECTS AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATION FOR THE APPLICATION AT HAND.

14. THE CONTRACTOR SHALL PROVIDE CUT SHEETS AND SPECIFICATIONS OF ALL ITEMS FOR SUBSTITUTIONS TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING OR INSTALLING ITEMS IN QUESTION.

15. PRODUCT MANUFACTURERS INDICATED IN SCHEDULES AND / OR ON THE PLANS WERE SELECTED BASED UPON QUALITY, STYLE, SIZE, ETC. AND ARE NOT INTENDED TO RESTRICT THE COMPETITIVE BIDDING PROCESS. PRODUCTS EQUAL TO OR INTENDED TO BE SUBSTITUTES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

16. CORRECTIONS OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY PORTION OF THE WORK WHICH HAS BEEN DAMAGED. REPLACE ANY WORK THAT FAILS TO CONFORM TO THE DRAWINGS AND DETAILS. CORRECT ANY DEFECTS DUE TO FAULTY MATERIALS AND WORKMANSHIP WHICH APPEAR WITHIN ONE YEAR OF OWNER ACCEPTANCE OF SPACE.

17. THE CONTRACTOR SHALL PRESENT THE COMPLETED WORK TO THE OWNER FOR ACCEPTANCE CLEAN AND READY FOR OCCUPANCY. ALL GLASS SHALL BE CLEAN AND POLISHED, FLOORS SWEPT, FIXTURES WASHED WITH ALL LABELS REMOVED. THE SITE SHALL BE FREE FROM DEBRIS AND TRASH.

CODES APPLICABLE TO PROJECT: **

BUILDING CODE :	1997 STANDARD BUILDING CODE
PLUMBING CODE:	1997 STANDARD BUILDING CODE
HVAC CODE:	- SEE MECHANICAL DRAWINGS
ELECTRICAL CODE:	- SEE ELECTRICAL DRAWINGS
FIRE CODE:	1996 STANDARD BUILDING CODE

** ALL CODES CITED INCLUDE LATEST REVISIONS

OCCUPANCY: (CHAPTER 3) — GROUP - F

TYPE OF CONSTRUCTION: — IV - UNPROTECTED SPRINKLERED

PER TABLE 500: — MAXIMUM # OF STORIES : 4
MAXIMUM AREA : 63,000 SQ. FT. / FLOOR
MAXIMUM HEIGHT : 55'-0"

PER TABLE 600: — TYPE IV - UNPROTECTED

REQUIRED FIRE RESISTANCE IN HOURS

PARTY AND FIRE WALLS:	FOUR HOUR
INTERIOR BEARING WALLS:	N.C.
COLUMNS:	N.C.
BEAMS, GIRDERS, TRUSSES:	N.C.
FLOOR & FLOOR/CEILING:	N.C.
ROOF & ROOF/CEILING:	N.C.

EXTERIOR BEARING WALLS:
HORIZONTAL SEPARATION REQUIRED:

0 ft. TO 3 ft.	1 hr. (0%)
OVER 3 ft. TO 10 ft.	1 hr. (10%)
OVER 10 ft. TO 20 ft.	N.C. (20%)
OVER 20 ft. TO 30 ft.	N.C. (40%)
OVER 30 ft.	N.C. (N.L.)

EXTERIOR NON-BEARING WALLS:
HORIZONTAL SEPARATION REQUIRED:

0 ft. TO 3 ft.	1 hr. (0%)
OVER 3 ft. TO 10 ft.	1 hr. (10%)
OVER 10 ft. TO 20 ft.	N.C. (20%)
OVER 20 ft. TO 30 ft.	N.C. (40%)
OVER 30 ft.	N.C. (N.L.)

PER TABLE 705.1.2 :

MINIMUM FIRE RESISTANCE OF WALLS, PARTITIONS, AND OPENING PROTECTIVE

	WALLS / PARTITIONS	OPENING PROTECTIVE
FIRE WALLS	4	3
TENANT SPACE	1	3/4

PROJECT INFORMATION :

PARTIAL AREAS = EACH SIDE OF FIRE WALL

BUILDING AREA: (PARTIAL)	59,159.38 SQ. FT.
BUILDING AREA: (PARTIAL)	33,924.5 SQ. FT.
BUILDING AREA: (UNDER ROOF)	93,082.8 SQ. FT.

SITE WORK

SEE CIVIL ENGINEERING DRAWINGS FOR NOTES.

CONCRETE

SEE STRUCTURAL DRAWINGS FOR NOTES

MASONRY

SEE STRUCTURAL DRAWINGS FOR NOTES

ELECTRICAL / MECHANICAL / PLUMBING

SEE MECHANICAL DRAWINGS FOR NOTES

ROOF

1. ROOF SHEATHING SHALL BE 19/32" INCH EXPOSURE 1 C-D SHEATHING GRADE PLYWOOD THE SHEATHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. LONG DIMENSION SHALL BE PERPENDICULAR TO FRAMING AND END JOINTS SHALL BE STAGGERED. SHEATHING SHALL BE FASTENED TO ROOF FRAMING WITH 8d COMMON OR 2 1/2" LONG WITH A 3/2 FULL ROUND HEAD. IN DADE & BROWARD COUNTIES PROVIDE 8d NAILS X 2 1/2" LONG WITH A 3/2 FULL ROUND HEAD ONLY. AT PERIMETER OF ROOF AND GABLE ENDS FASTEN SHEATHING AT 4" C/C. ALSO NAIL ROOF SHEATHING TO FASCIA AT 4" C/C. NAIL REMAINDER OF ROOF AT 6" C/C MAX.

2. CONNECTIONS FOR WOOD ROOF SYSTEMS: ANCHOR EACH TRUSS/ RAFTER AT EACH END WITH RATED CONNECTORS CAPABLE OF RESISTING THE UPLIFT AND HORIZONTAL LOADS SPECIFIED. THE CONNECTOR SHALL BE IMBEDDED IN OR ATTACHED TO BOND OR TIE BEAM IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS. THE CONNECTOR SHALL BE FASTENED TO THE TRUSS/RAFTER IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. THE WOOD TRUSS/RAFTER SHALL BE SEPARATED FROM MASONRY, CAST-IN-PLACE OR PRECAST BOND BEAMS WITH AN APPROVED MOISTURE BARRIER.

3. TRUSS MANUFACTURER SHALL SUPPLY TRUSS LAYOUT AND SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED (TRUSS SPECIALTY) ENGINEER. THESE DRAWINGS AND RELATING ENGINEERING SHALL BE PROVIDED TO THE ARCHITECT AND CONTRACTOR PRIOR TO SUBMISSION OF THESE CONSTRUCTION DRAWINGS TO THE BUILDING DEPT. THE TRUSS DRAWINGS SHALL INDICATE GRAVITY AND WIND UPLIFT LOADS AT TRUSS, TRUSS GIRDERS AND LAMINATED WOOD BEAMS.

4. TRUSS MANUFACTURER SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR REVISIONS TO ROOF PLAN DESIGN PRIOR TO TRUSS FABRICATION.

5. ANY DEVIATION FROM THESE DRAWINGS RELATED TO LOAD BEARING CONDITIONS LOCATIONS, WALL HEIGHTS, ETC. SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION.

6. ALL ANCHOR BOLTS (A.B.) SHALL HAVE A MIN. 7" PENETRATION INTO CONCRETE.

7. ALL WOOD TRUSSES AND GIRDERS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (T.P.I.)

8. TRUSS HANGERS OR STRAPS THAT DO NOT MATCH EXACTLY THE ONES SPECIFIED IN THE DRAWINGS IN STEEL YIELD OR ULTIMATE STRENGTH, STEEL GAUGE, DIMENSIONS (LENGTH AND WIDTH), NUMBER AND DIAMETER OF HOLES FOR THE SAME SIZES OF NAILS OR BOLTS AND OR DO NOT HAVE THE SAME GENERAL SHAPE WILL NOT BE ACCEPTED.

9. ALL TRUSS HANGERS OR STRAPS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.

WOOD

1. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED OR SEPARATED WITH (3) LAYERS OF 30LB. BUILDING PAPER.

2. ALL WOOD SHALL BE SOUTHERN YELLOW PINE #2 OR BETTER.

4. ALL EXTERIOR WALL SHEATHING SHALL BE 19/32" THK. C.D.X. GRADE PLYWOOD SHEATHING. NAIL PLYWOOD SHEATHING AT 4" C/C AT ALL EDGES AND 8" C/C IN THE FIELD WITH 8d GALVANIZED COMMON NAILS. (EXCEPT WHERE NOTED)

WATER PROOFING

1. ALL FLASHING AND COUNTER FLASHING TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.

REFER TO DRAWINGS FOR ADDITIONAL NOTES.

Revisions:

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BOCA RATON, FLORIDA

Contents: GENERAL NOTES

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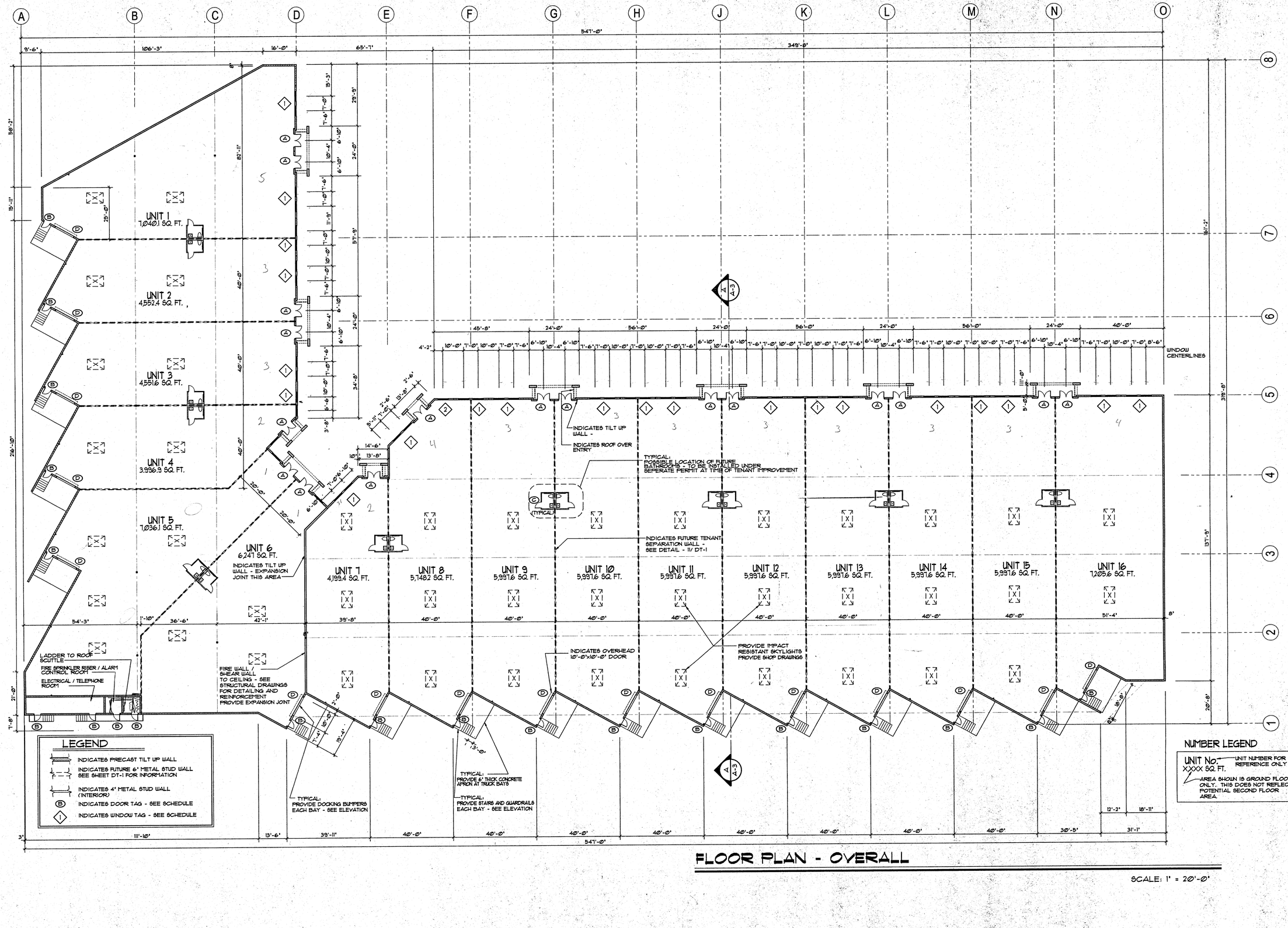
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FLOOR PLAN - OVERALL

SCALE: 1" = 20'-0"

Revisions:

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1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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Contents: FLOOR PLAN

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Cert. No.: AA0002282

Job # 14000

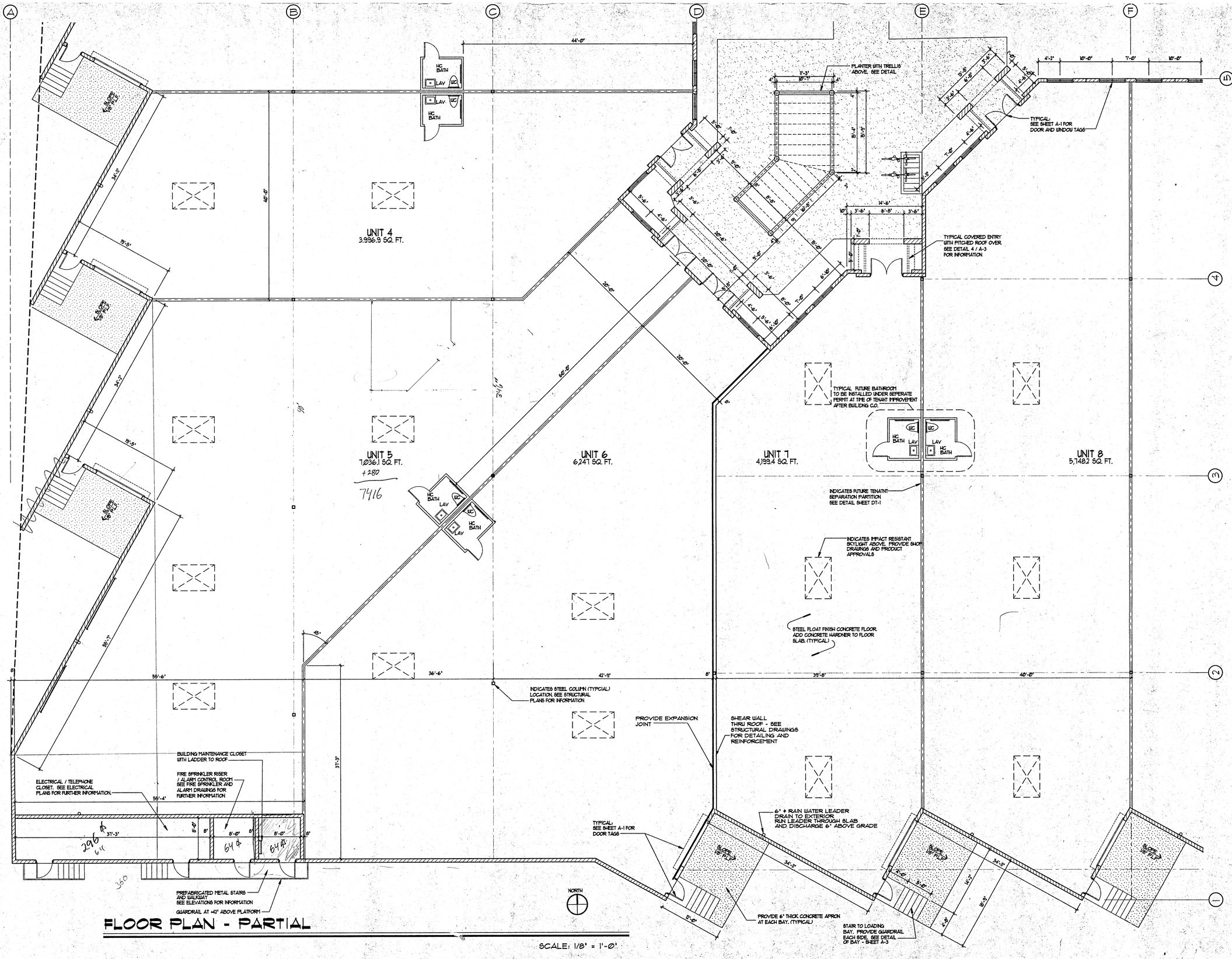
Date: AUG. 18, 2000

Drawn by: EAB

Checked by:

Sheet A-1 of 9

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FLOOR PLAN - PARTIAL

SCALE: 1/8" = 1'-0"

Revisions:

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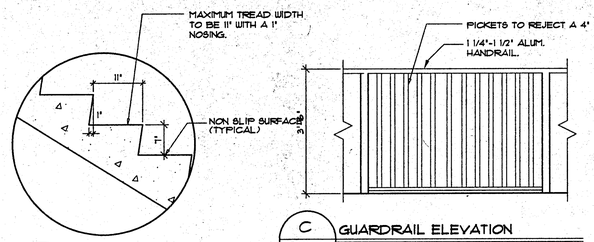
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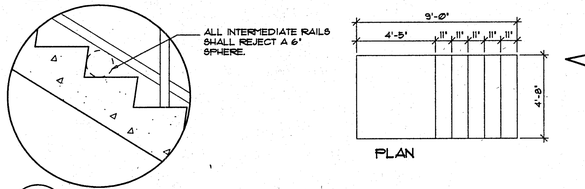


B / 1 DETAIL OF RISER / TREAD

SCALE: 3/4" = 1'-0"

C / 1 GUARDRAIL ELEVATION

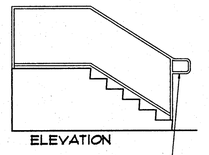
SCALE: 1/2" = 1'-0"



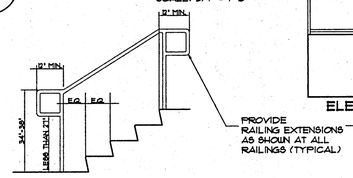
A / 1 DETAIL OF RAILING

SCALE: 3/4" = 1'-0"

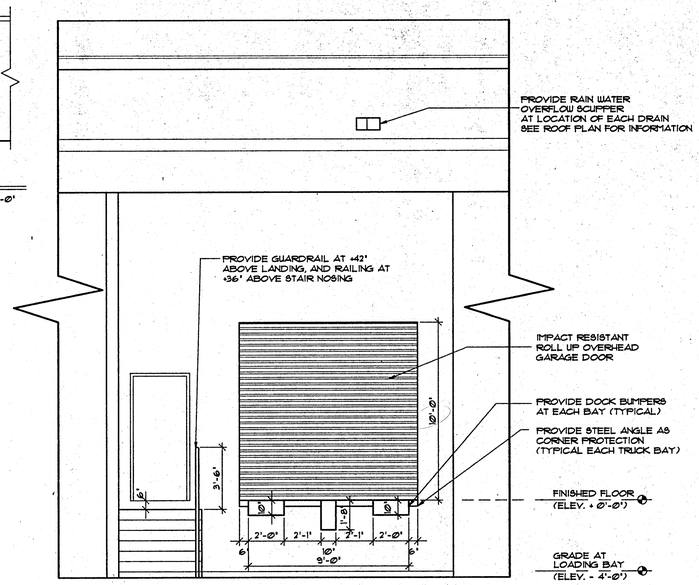
PLAN



ELEVATION



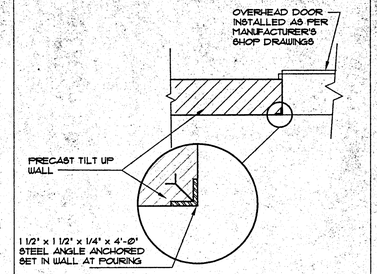
PROVIDE RAILING EXTENSIONS AS SHOWN AT ALL RAILINGS (TYPICAL)



1 / A-3 TYPICAL TRUCK LOADING BAY

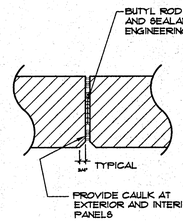
SCALE: 1/4" = 1'-Ø"

THESE DETAILS ARE FOR FINISHES ONLY. SEE ENGINEERING DRAWINGS FOR ATTACHMENT METHODS AND SPACING/SPECS OF FASTENERS.



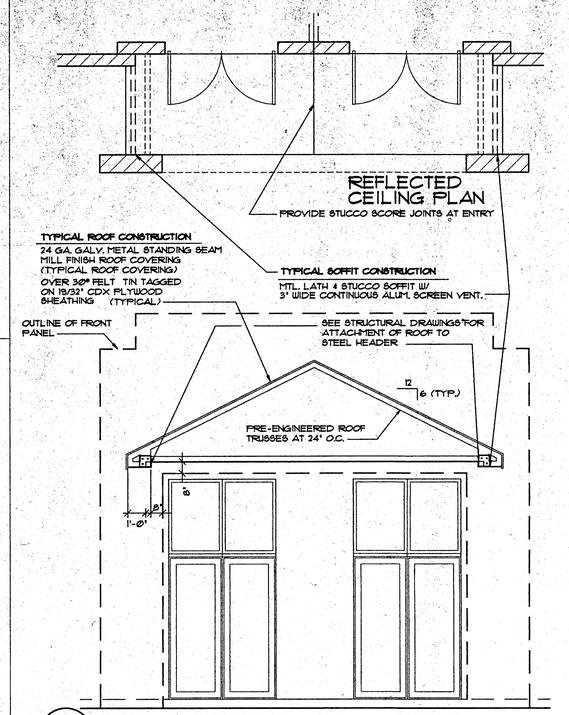
2 / A-3 CORNER PROTECTION

SCALE: 3/4" = 1'-Ø"



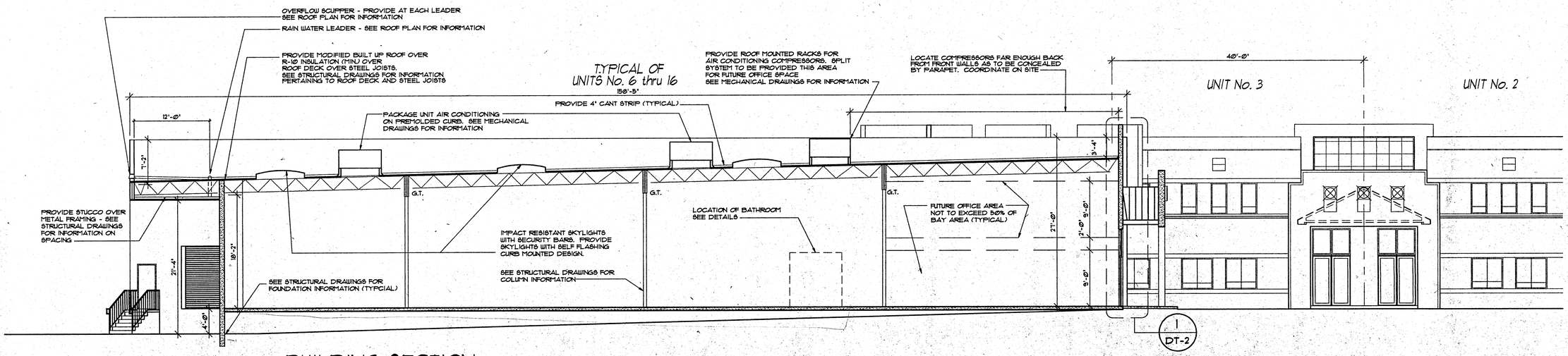
3 / A-3 DETAIL BETWEEN PANELS

SCALE: 1 1/2" = 1'-Ø"



4 / A-3 DETAIL AT ENTRY SECTION

SCALE: 1/4" = 1'-Ø"



BUILDING SECTION

SCALE: 1/8" = 1'-Ø"

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: BUILDING SECTION

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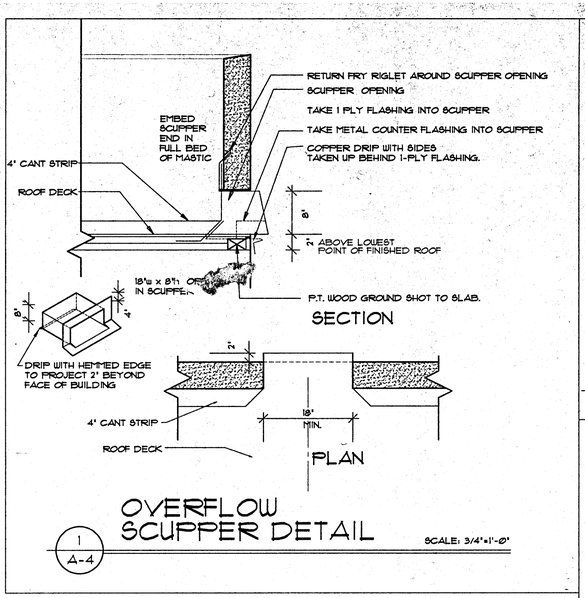
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Sheet A-3 of 9

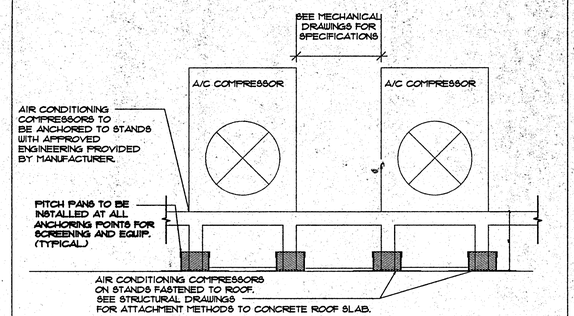
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OVERFLOW SCUPPER DETAIL

1 / A-4

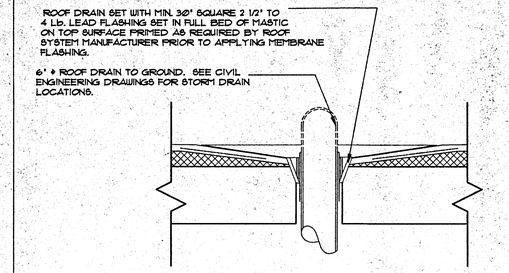
SCALE: 3/4"=1'-0"



A/C STAND DETAIL

2 / A-4

SCALE: 1 1/2"=1'-0"



ROOF DRAIN DETAIL

4 / A-4

SCALE: 1 1/2"=1'-0"

CHAIR FOR SERVICE MOUNTED LINES

3 / A-4

SCALE : 1 1/2" = 1'-0"

ROOF DRAINAGE CALCULATIONS:

(AS PER STANDARD PLUMBING CODE - 1997)

PER FIGURE 1106.1 = 100 YEAR/60 MIN. PRECIPITATION = 5.0 IN.

ROOF DRAIN:
CALCULATIONS BASED UPON +/- 6,300 SQ. FT.
(LARGEST ROOF AREA FOR ONE DRAIN)

PER TABLE 1106.2 - 5" ø MIN. REQUIRED.
(5"ø = 6,920 SQ. FT. ALLOWED - MAXIMUM)

SCUPPER DRAIN:
SIZED AS PER SECTION 1107.

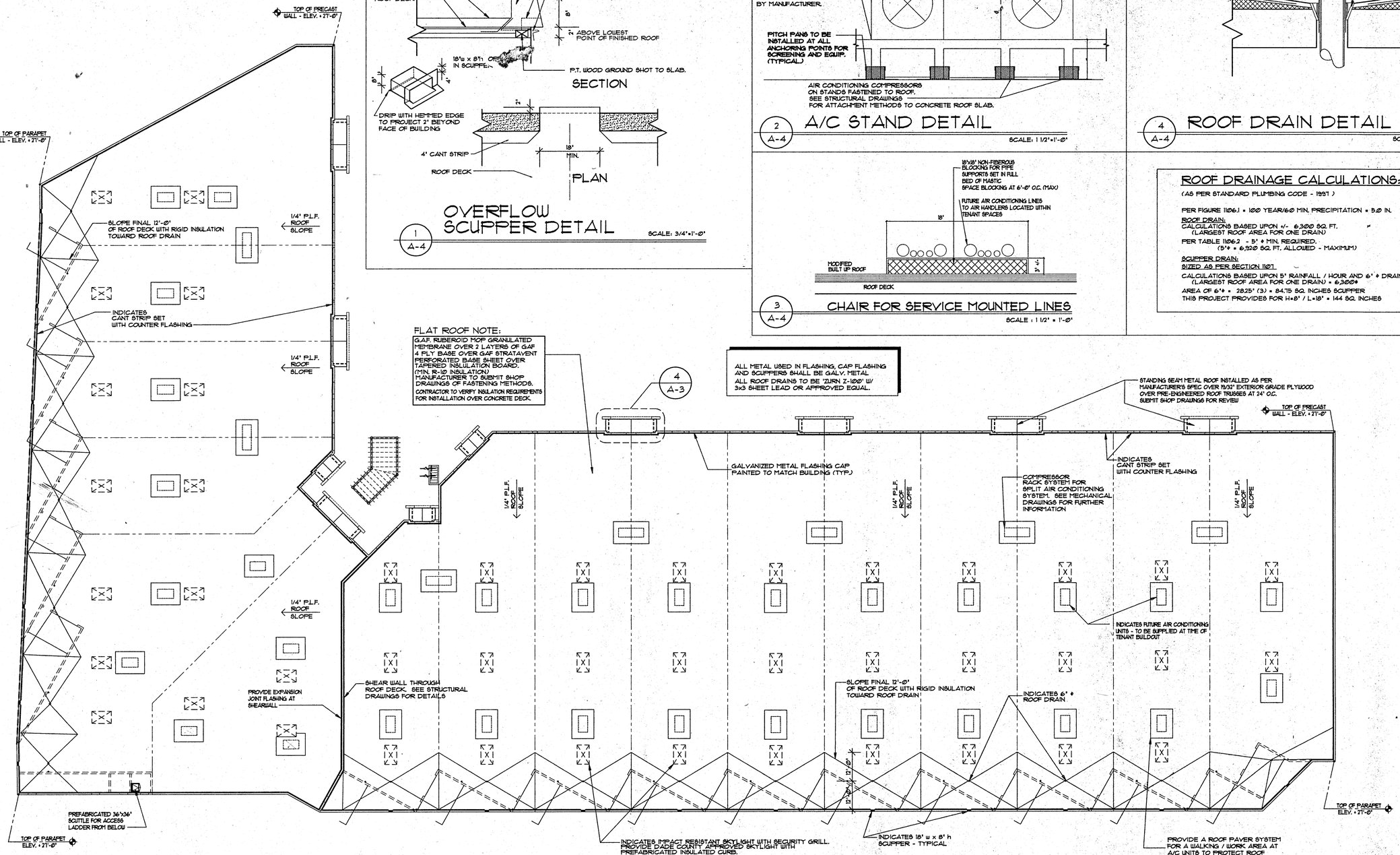
CALCULATIONS BASED UPON 5" RAINFALL / HOUR AND 6" ø DRAIN
(LARGEST ROOF AREA FOR ONE DRAIN) = 6,300ø

AREA OF 6"ø = 28.25" (3) = 84.75 SQ. INCHES SCUPPER
THIS PROJECT PROVIDES FOR H=8" / L=18" = 144 SQ. INCHES

FLAT ROOF NOTE:

G.A.F. RUBEROID MOP GRANULATED MEMBRANE OVER 2 LAYERS OF GAF 4 PLY BASE OVER GAF STRATAVENT PERFORATED BASE SHEET OVER TAPERED INSULATION BOARD: (MIN. R-10 INSULATION) MANUFACTURER TO SUBMIT SHOP DRAWINGS OF FASTENING METHODS. CONTRACTOR TO VERIFY INSULATION REQUIREMENTS FOR INSTALLATION OVER CONCRETE DECK.

ALL METAL USED IN FLASHING, CAP FLASHING AND SCUPPERS SHALL BE GALV. METAL
ALL ROOF DRAINS TO BE 'ZURN Z-100' W/ 3x3 SHEET LEAD OR APPROVED EQUAL.



ROOF PLAN - OVERALL

SCALE: 1" = 20'-0"

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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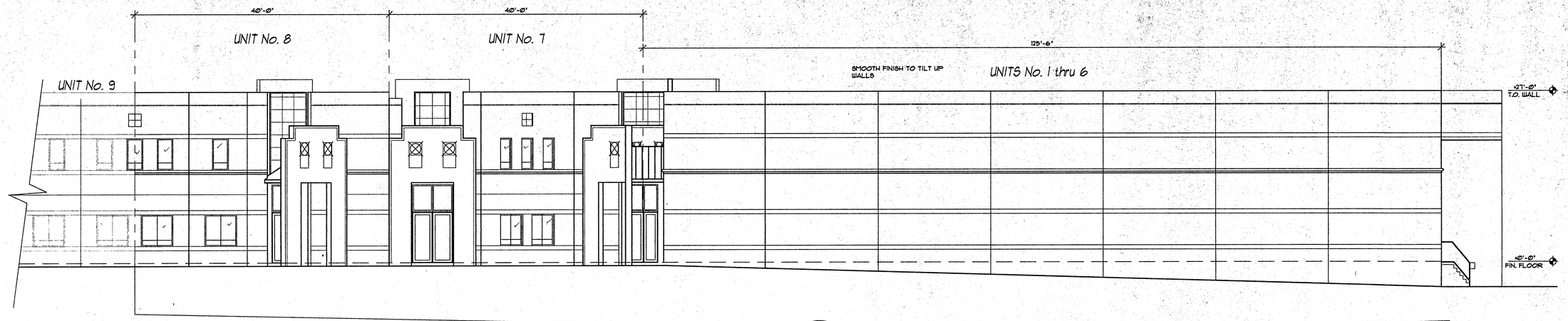
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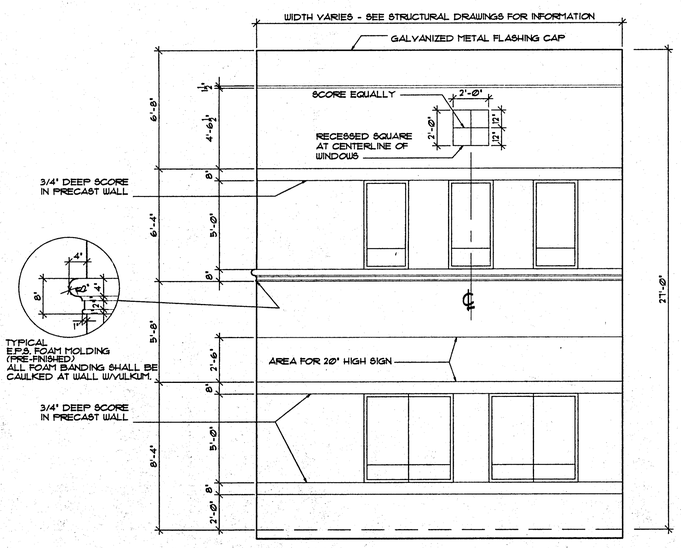
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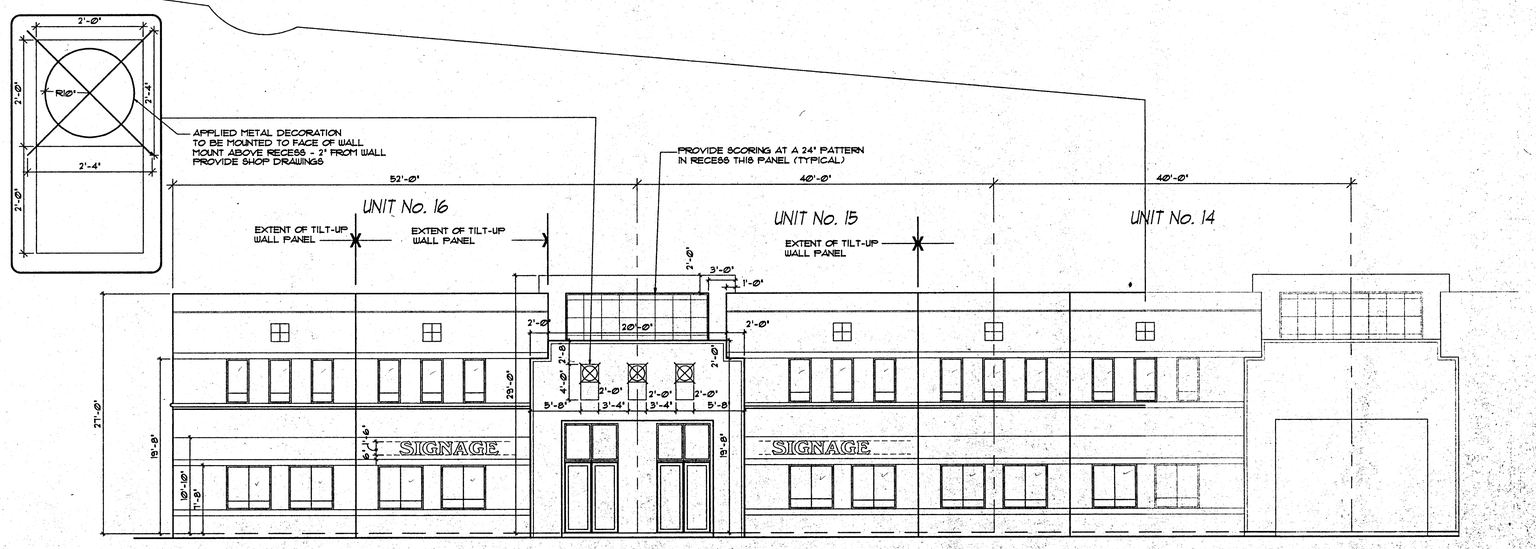






PANEL DETAIL

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



NORTH ELEVATION

SCALE: 1/8" = 1'-0"

Revisions:

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1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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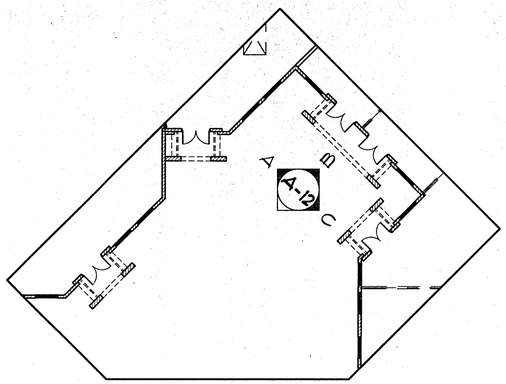
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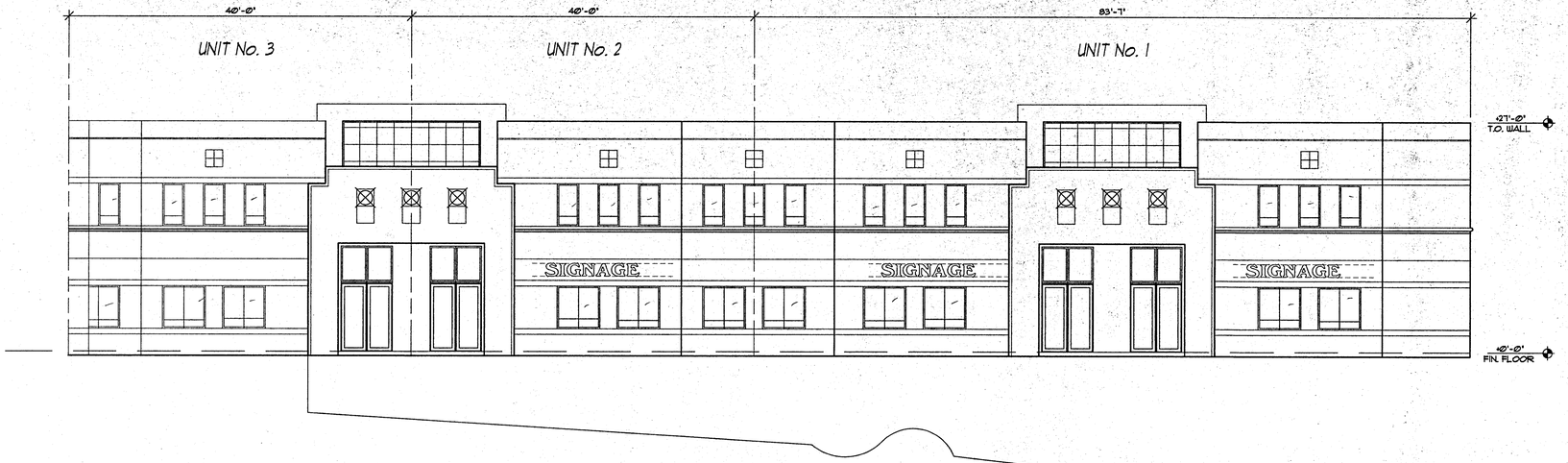
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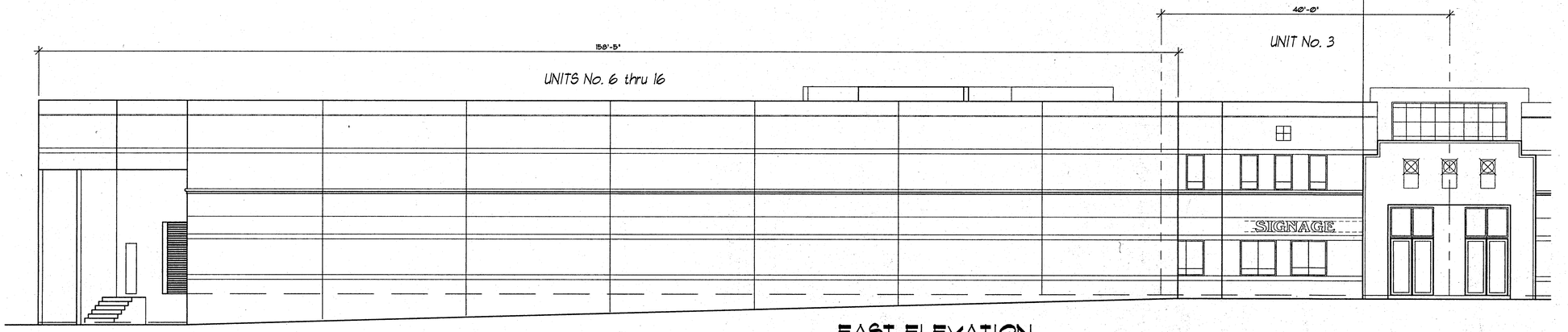
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PARTIAL FLOOR PLAN AT MIDDLE OF BUILDING

SCALE: 1/16" = 1'-0"





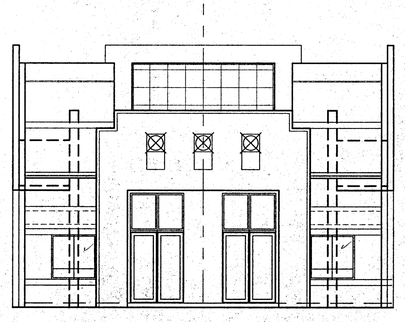
EAST ELEVATION

SCALE: 1/8" = 1'-0"



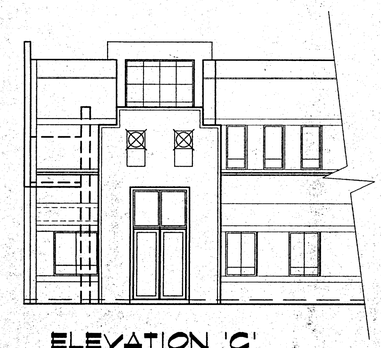
ELEVATION 'A'

SCALE: 1/8" = 1'-0"



ELEVATION 'B'

SCALE: 1/8" = 1'-0"



ELEVATION 'C'

SCALE: 1/8" = 1'-0"

Revisions:

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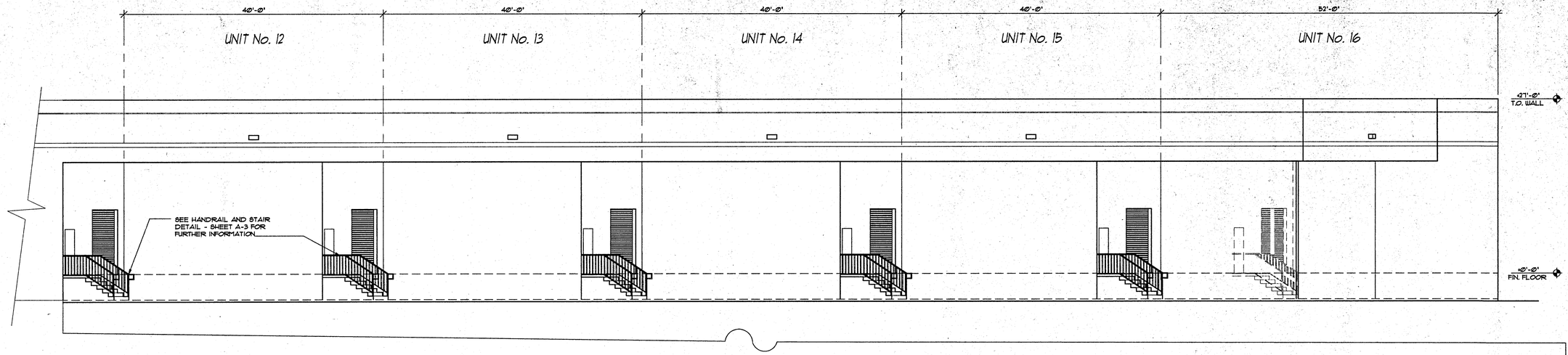
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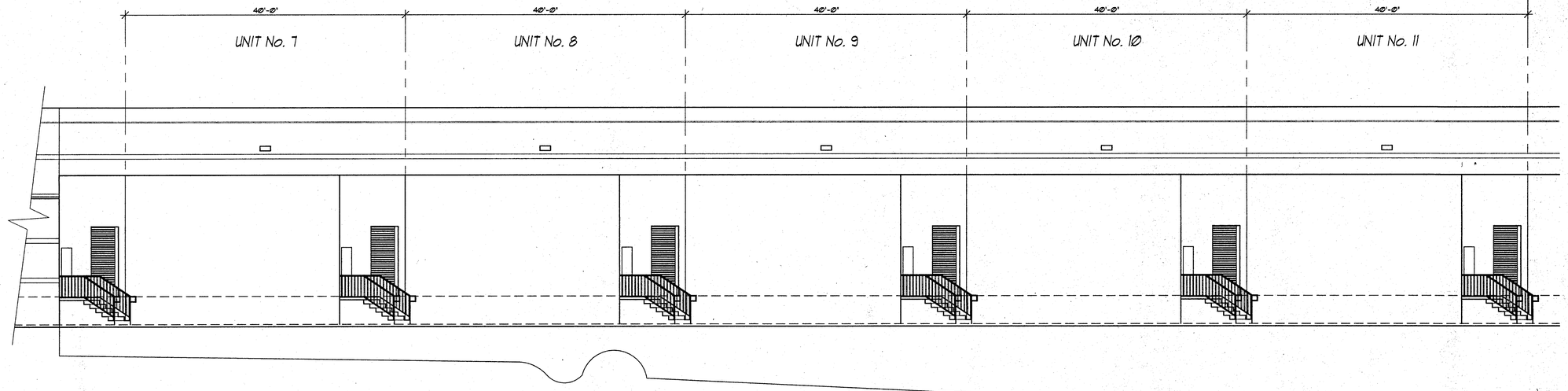
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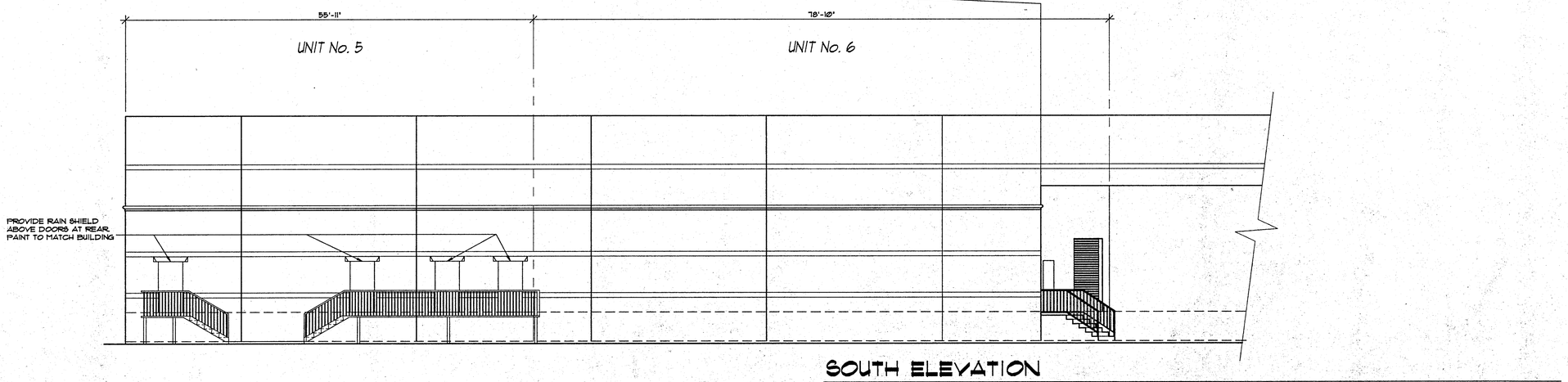
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SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

Revisions:

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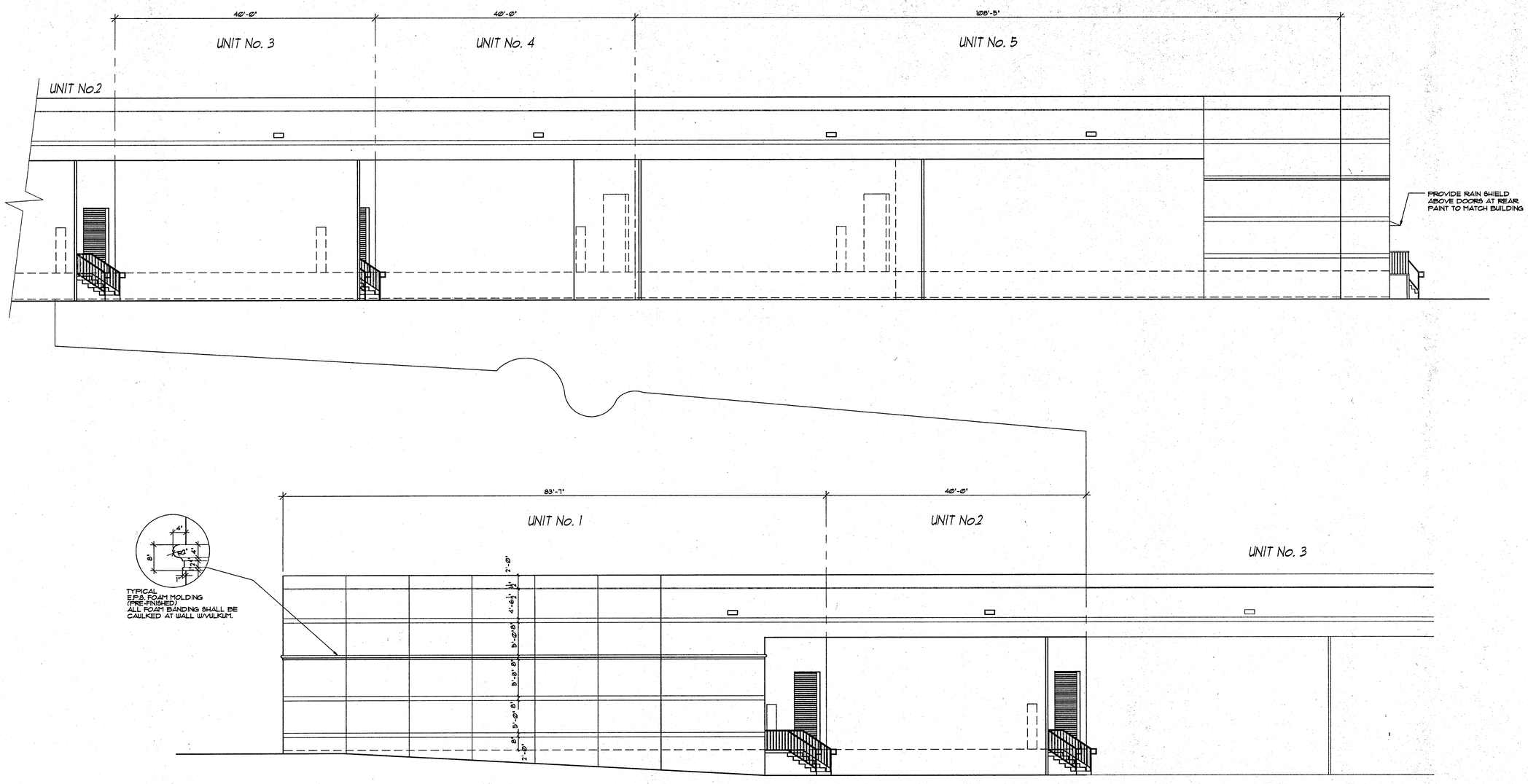
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WEST ELEVATION

SCALE: 1/8" = 1'-0"

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Revisions:

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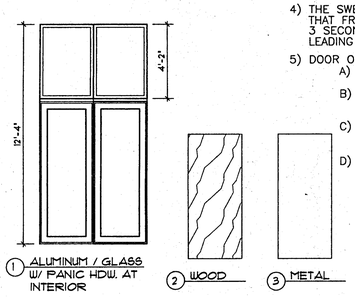
Sheet
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of 9

DOOR SCHEDULE

KEY TO MATERIAL		KEY TO OPERATION		KEY TO FRAME
WD= WOOD		H= HINGED	OH= OVERHEAD	W= WOOD
AL= ALUM	AL/GL= ALUM & GLASS		SW= SWINGING	MTL= METAL
MTL= METAL				AL= ALUMINUM

MARK	TYPE	SIZE W x H	THK.	MATERIAL	OPERATION	FRAME	DETAIL H	DETAIL J	DETAIL TH	REMARKS	SHOP DRWGS.
A	1	(2) 3'x8'	1 3/4"	AL/GL	SW	MTL				PUSH BARS AT INTERIOR / TRANSOM ABOVE	REQ.
B	3	3'-0"x7'-0"	1 3/4"	MTL	SW	MTL					
C	3	2'-10"x6'-8"	1 3/8"	WD	SW	WD				PUSH BARS AT INTERIOR	REQ.
D	4	10'-0"x10'-0"		MTL	OH	MTL				ROLL UP OVERHEAD DOOR	REQ.

DOOR TYPES



1 ALUMINUM / GLASS W/ PANIC HDW. AT INTERIOR

2 WOOD

3 METAL

NOTES:

1) PROVIDE SIGNAGE ON DOORS TO IDENTIFY EQUIPMENT SERVICES AND TYPE
2) ALL DOORS THAT ARE LOCKABLE MUST HAVE A LOCK SET THAT WILL UNLOCK FROM INSIDE OF ROOM
3) ALL DOOR HARDWARE TO BE LEVER TYPE – SIMILAR TO SCLAAG "L" SERIES. LOCKS TO BE COORDINATED WITH OWNER TO MAINTAIN MASTER KEY SYSTEM. ALL HARDWARE TO COMPLY WITH ALL A.D.A. GUIDELINES. DOOR FRAMES TO BE METAL AND PROTECTED BY 2 COATS OF PAINT – PER MFR. SPECS.
4) THE SWEEP PERIOD OF AN AUTOMATIC CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR. (FACFBC 4.13.10)
5) DOOR OPENING FORCES SHALL BE AS FOLLOWS:
   A) FIRE DOORS SHALL HAVE THE MIN. OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
   B) EXTERIOR HINGED DOORS SHALL BE SO DESIGNED THAT SUCH DOORS CAN BE PUSHED OR PULLED OPEN WITH A FORCE NOT EXCEEDING 8.5 LBF (37.8 N)
   C) INTERIOR HINGED DOORS SHALL BE SO DESIGNED THAT SUCH DOORS CAN BE PUSHED OR PULLED OPEN WITH A FORCE NOT EXCEEDING 5.0 LBF (22.2 N)
   D) SLIDING OR FOLDING DOORS: 5 LBF

ALL EXTERIOR DOORS TO BE IMPACT RESISTANT. SUBMIT SHOP DRAWINGS FOR REVIEW.

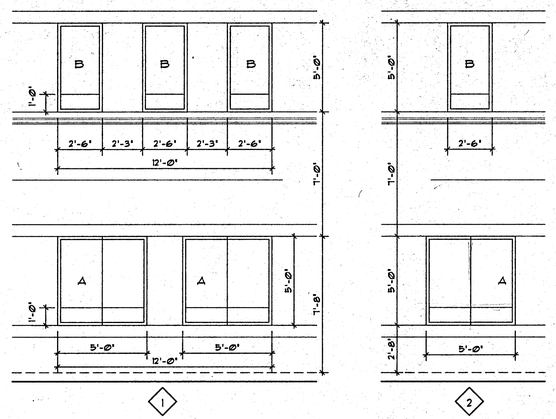
WINDOW SCHEDULE

MARK	TYPE	SIZE W x H	MATERIAL/OPERATION	REMARKS	H	J	S
	A	5'-0"x5'-0"	FIXED	WITH APPLIED MUTTONS			
	B	2'-6"x5'-0"	FIXED	WITH APPLIED MUTTONS			

NOTE: IT IS THE CONTRACTOR RESPONSIBILITY TO COORD. WITH DOOR/WINDOW MANUFACTURER ROUGH OPNG. DIMENSIONS AND ADJUST MASONRY OPNG, ACCORDINGLY

ALL WINDOWS TO BE IMPACT RESISTANT. SUBMIT SHOP DRAWINGS.

WINDOW TYPES



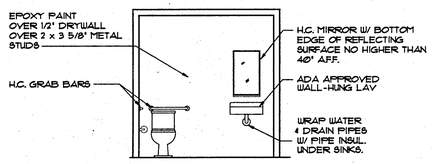
WINDOW NOTES:

1. CONTRACTOR TO COORDINATE STRUCTURAL OPENINGS WITH ACTUAL WINDOW SIZES PER WINDOW MANUFACTURER'S DRAWINGS.
2. CONTRACTOR SHALL COORDINATE GLAZING & GRILL OPTIONS WITH WINDOW MFR.
3. ALL GLAZING SHALL HAVE A SHADING COEFFICIENT OF .7

FINISH NOTES

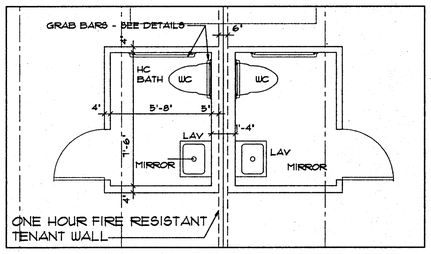
NOTES:

1. ALL BATHROOM FLOORS SHALL BE SLIP RESISTANT TILE. ALL BATHROOM FLOORS AND BASES SHALL BE OF IMPERVIOUS MATERIAL.



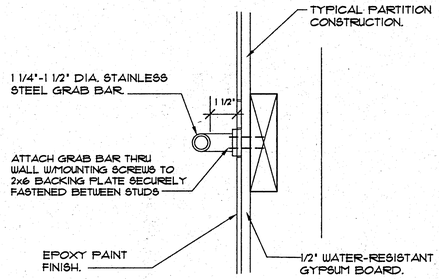
BATHROOM ELEVATION

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



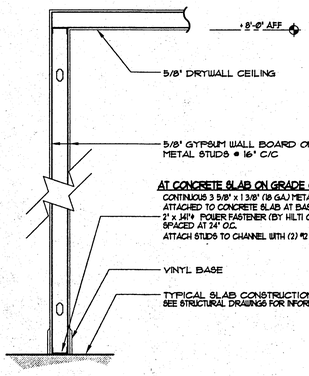
TYPICAL PLAN AT BATHROOM

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



GRAB BAR DETAIL

SCALE: 3" = 1'-0"



PARTITION DETAIL AT BATHROOM

SCALE: 3/4" = 1'-0"

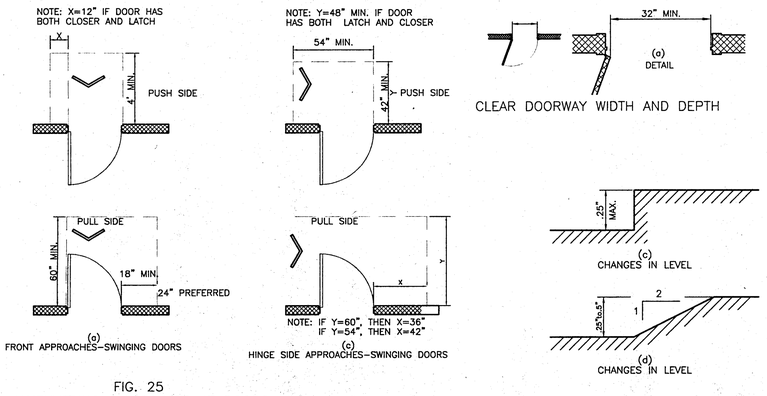


FIG. 25
MANEUVERING CLEARANCES AT DOORS

ARROW INDICATES DIRECTION OF APPROACH

1 A-3 CLEARANCES AT DOORS
N.T.S.

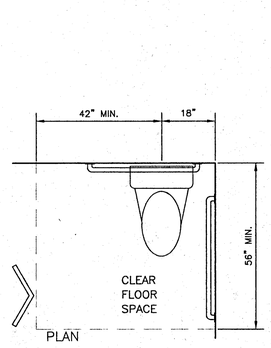


FIG. 28
CLEAR FLOOR SPACE AT WATER CLOSETS

2 A-3 GRAB BAR DETAIL

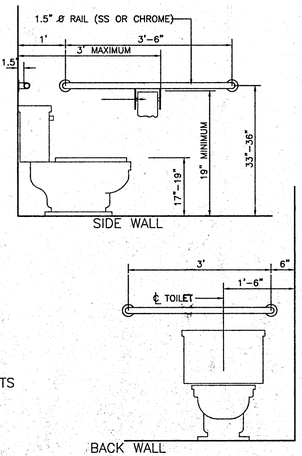


FIG. 29
GRAB BAR

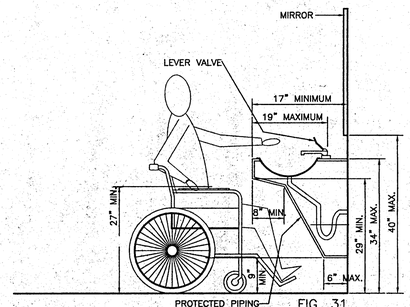


FIG. 31

4 A-3 ACCESSIBLE LAV. DETAIL
N.T.S.

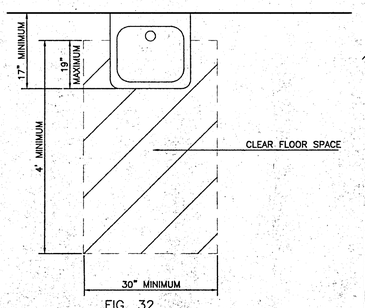


FIG. 32

A.D.A. REQUIRED CLEARANCES

PER 1997 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION N.T.S.

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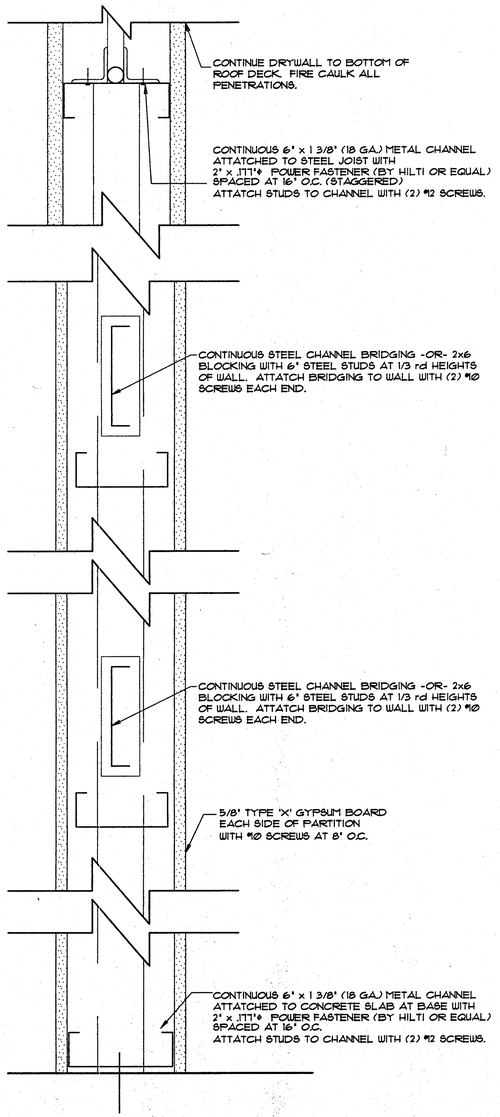
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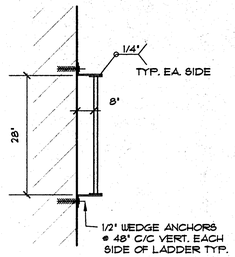
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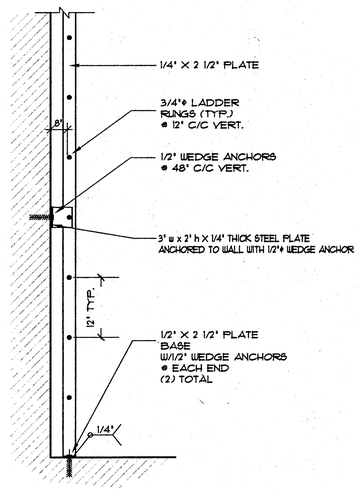


11 DT-1 TENANT DIVIDING WALL

SCALE: 3" = 1'-0"



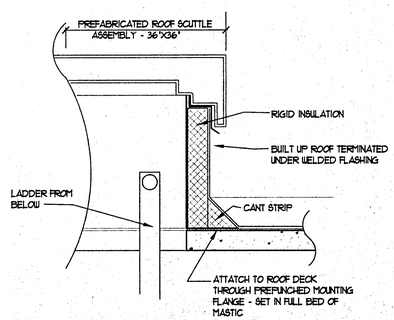
PLAN VIEW OF LADDER



SECTION THRU LADDER

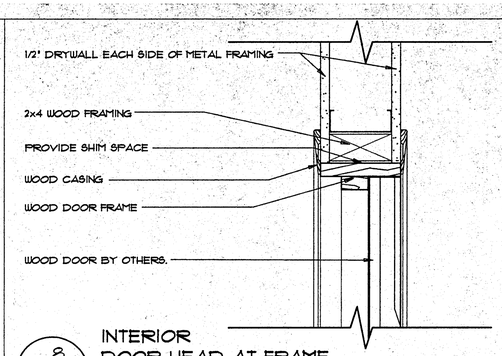
10 DT-1 EXTERIOR LADDER TO ROOF

SCALE: 3" = 1'-0"



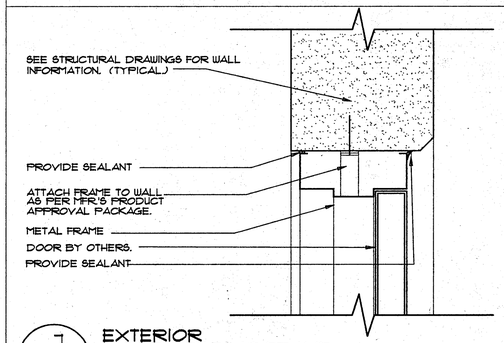
9 DT-1 SECTION AT ROOF SCUTTLE

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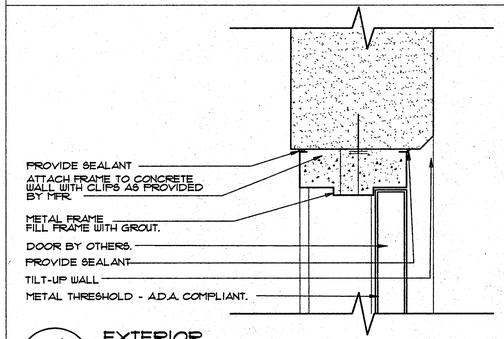
8 DT-1 INTERIOR DOOR HEAD AT FRAME

WOOD FRAME SCALE: 3" = 1'-0"



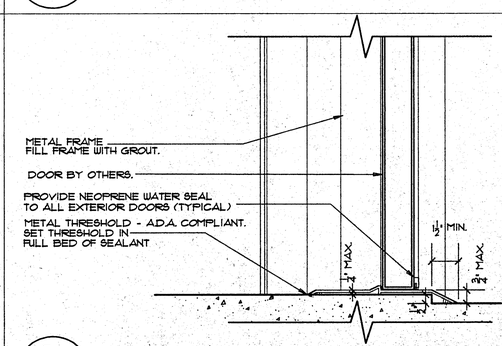
7 DT-1 EXTERIOR DOOR HEAD AT FRAME

SCALE: 3" = 1'-0"



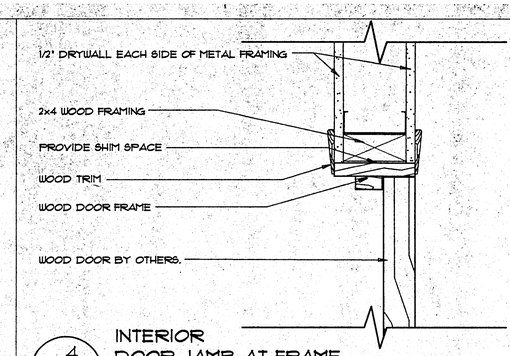
6 DT-1 EXTERIOR DOOR JAMB AT FRAME

SCALE: 3" = 1'-0"



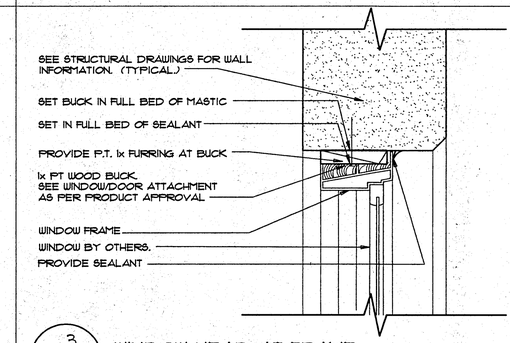
5 DT-1 THRESHOLD AT EXTERIOR DOOR

SCALE: 3" = 1'-0"



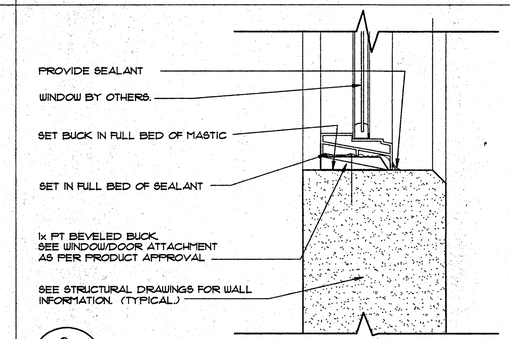
4 DT-1 INTERIOR DOOR JAMB AT FRAME

WOOD FRAME SCALE: 3" = 1'-0"



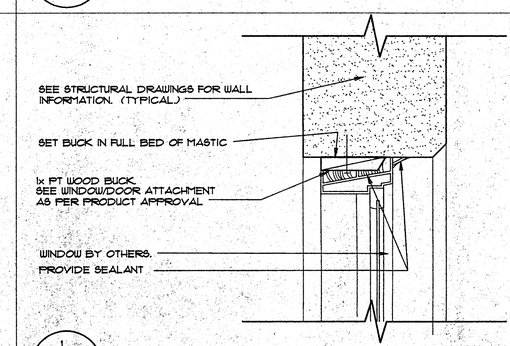
3 DT-1 WINDOW HEAD AT FRAME

SCALE: 3" = 1'-0"



2 DT-1 WINDOW SILL AT FRAME

SCALE: 3" = 1'-0"



1 DT-1 WINDOW JAMB AT FRAME

SCALE: 3" = 1'-0"

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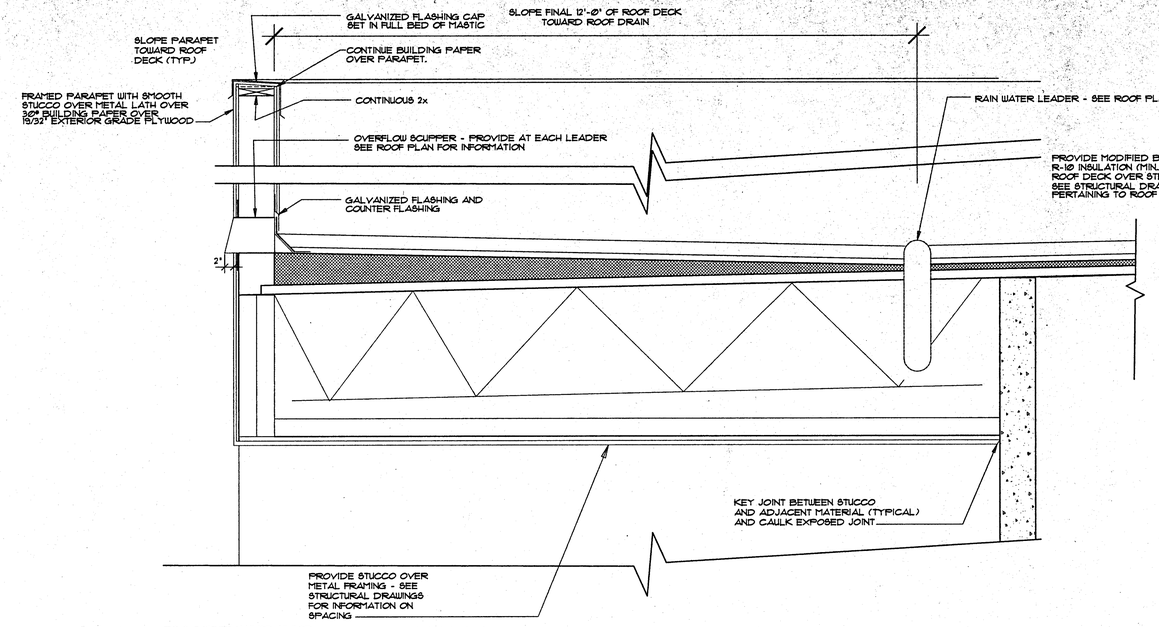
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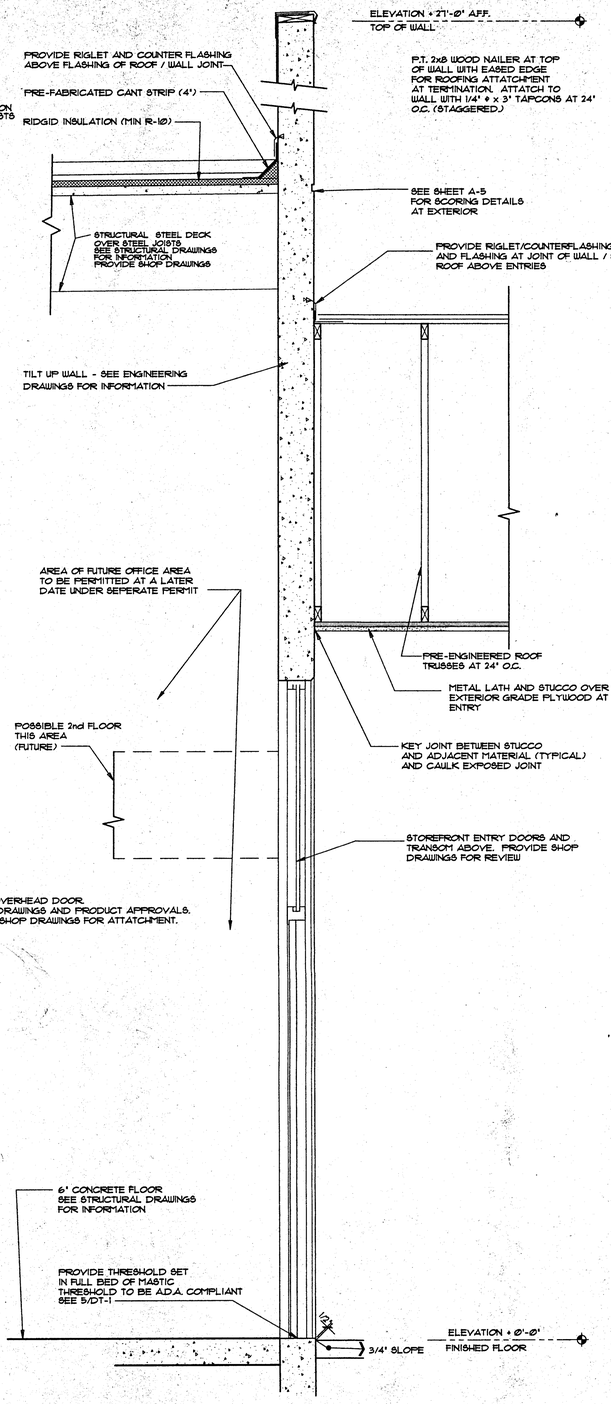
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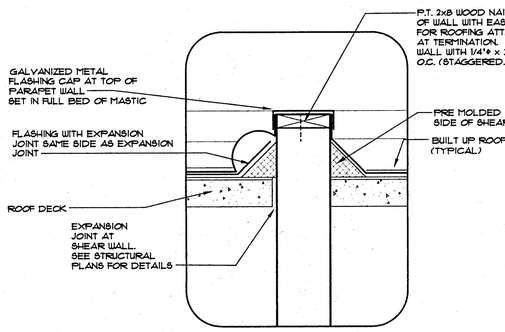
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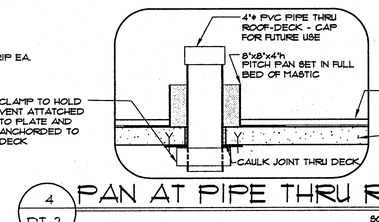
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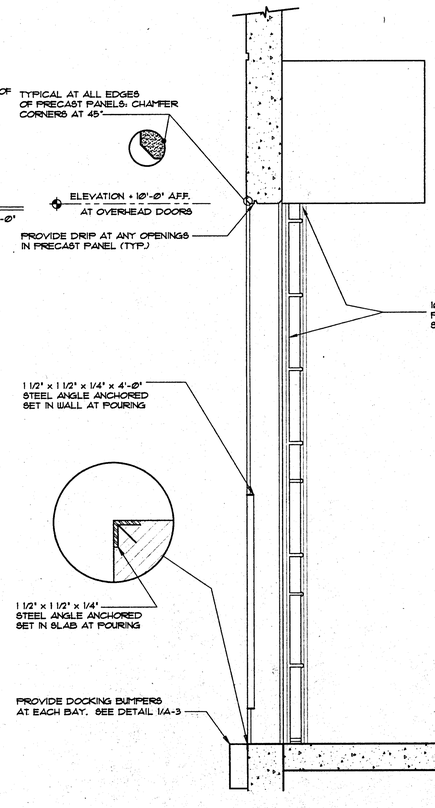


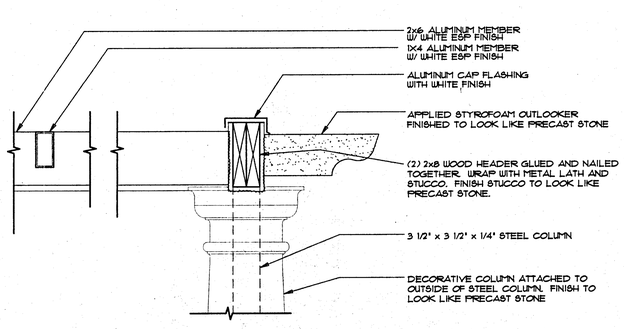


6 DT-2 FLASHING AT SHEAR WALL
SCALE = 1 1/2" = 1'-0"

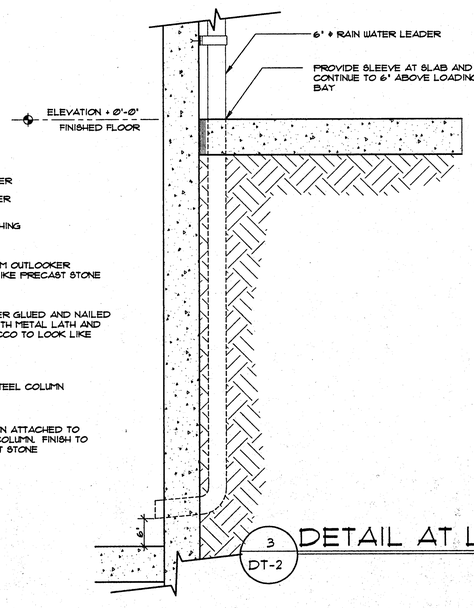


4 DT-2 PAN AT PIPE THRU ROOF
SCALE = 1 1/2" = 1'-0"





5 DT-2 TRELLIS DETAIL
SCALE = 1 1/2" = 1'-0"



3 DT-2 DETAIL AT LEADER
SCALE = 1 1/2" = 1'-0"

2 DT-2 WALL SECTION OVERHEAD DOOR
SCALE: 3/4" = 1'-0"

1 DT-2 WALL SECTION AT STORE FRONT
SCALE: 3/4" = 1'-0"

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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Contents: SELECTED DETAILS

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Cert. No.: AA0002282

Job # 14000

Date: AUG. 18, 2000

Drawn by: EAB

Checked by:

Sheet DT-2 of 2

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STRUCTURAL GENERAL NOTES

DESIGN CRITERIA

D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE STANDARD BUILDING CODE, LATEST ADOPTED EDITION.

D2 DESIGN LOAD VALUES:
SEE SPECIFIC PLANS
FOUNDATION SHEET S1
ROOF FRAMING SHEET S4

D3 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODE AND IN ACCORDANCE WITH FS.533.

D4 EVERY REASONABLE EFFORT HAS BEEN MADE TO INSURE COORDINATION BETWEEN THESE DWGS AND THE BOUND STRUCTURAL SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL REQUEST, IN WRITING, A CLARIFICATION.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED, SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

G5 ALL SUBMITTAL SETS SHALL CONSIST OF 1 SEPIA AND 2 BLUE LINES, OR A MAXIMUM OF 5 BLUE LINES, ANY ADDITIONAL BLUE LINES WILL BE DISCARDED.

G6 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.

G7 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

G8 ANY CONFLICTS BETWEEN THE SPECIFICATIONS AND DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCH. THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

G9 STEEL MEMBERS THAT WILL RECEIVE SPRAY-ON FIREPROOFING SHALL NOT BE PAINTED WITH SHOP COAT OF PRIMER.

FOUNDATIONS

F1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD SOIL DENSITY TESTS TO INSURE CONFORMANCE WITH GEOTECHNICAL SOILS REPORT. SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

F2 CONTRACTOR IN CONJUNCTION WITH GEOTECHNICAL FIELD REPRESENTATIVE SHALL DETERMINE IF ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE DESIGN SOIL PRESSURE RECOMMENDED BY THE SOILS REPORT.

F3 FOUNDATION DESIGN VALUES – SEE FOUNDATION PLAN.

SLAB ON GRADE

SOG1 UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT REFERENCED ABOVE, COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD CONTROLLED BY REPRESENTATIVE TECHNICIAN OF QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 12" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.

SOG2 MAXIMUM SPACING OF CONTROL JOINTS SHALL BE AS SET IN THE TABLE BELOW, OR AS NOTED ON PLANS. PATTERNS SHALL BE APPROXIMATELY SQUARE W/ RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 1.5.

SLAB THK (IN)	* 3/4" OR LARGER AGGREGATE SPACING (FT)
4	12
5	13
6	15

* MIX DESIGNS CONTAINING AGGREGATE LESS THAN 3/4" AGGREGATE ARE NOT ACCEPTABLE.

CUT SLAB AS SOON AS AGGREGATE DOES NOT DISLODGE(MUST BE WITHIN SAME DAY AS CONCRETE POUR).

SOG3 GC SHALL COORDINATE EXACT LOCATION OF SJ'S AND CJ'S WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO NOT READ THROUGH.

SOG4 WAREHOUSE SLABS SHALL BE POWER-TROWELLED TO A HARD, SMOOTH, BURNISHED FINISH. THE FINAL TROWEL PASS SHALL BE DONE BY MACHINE, NOT BY HAND. WITHIN 30 MINUTES OF THE FINAL TROWEL PASS, THE FLOOR SHALL BE CURED WITH EUCLID'S SUPER REZ-SEAL OR APPROVED EQUAL.

SOG5 THE SLAB/FOUNDATION SHOWN HEREIN HAS BEEN DESIGNED FOR THE ALLOWABLE DISTRIBUTED LOADS NOTED ON THE PLAN(S). ANY AND ALL LOADS PLACED UPON THE SLAB DURING THE CONSTRUCTION OR POST-CONSTRUCTION PHASE WHICH EXCEED THE DESIGN LOADS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR.

SOG6 SLAB THICKNESS SHALL BE INCREASED AS REQUIRED TO PROVIDE ADEQUATE SUPPORT FOR CRANE LOADS WITHOUT CRACKING SLAB.

CONCRETE AND REINFORCING

C1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

C2 CONCRETE WORK SHALL CONFORM TO ACI 301 (LATEST EDITION) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

C3 ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

LOCATION	28 DAY STRENGTH (PSI)	SLUMP (IN)	MAX AGGREGATE (IN)
FOUNDATIONS	3000 PSI	4" ; 1"	1 1/2"
SLAB-ON-GRADE:			
4" SLAB...	3000 PSI	4" ; 1"	
5" & THICKER...	4000 PSI (MIN FLEXURAL STRENGTH = 550 PSI)	(SEE NOTE NO. 1)	1 1/2"
EQUIP SUPPORTS, BEAMS & COLUMNS	4000 PSI	4" ; 1"	1"
TILT PANELS	4000 PSI	4" ; 1"	1 1/2"
GROUT UNDER TILT-UP PANELS	4000 PSI	8" TO 11"	3/8"

NOTES:
1. SLUMP FOR RAMPS AND SLOPING SURFACES SHALL NOT EXCEED 4".

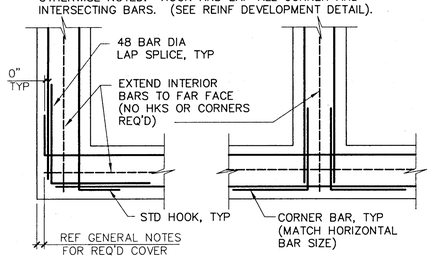
C4 CONCRETE MIX DESIGN SUBMITTALS:
1. EACH MIX DESIGN SHALL BE LABELED TO INDICATE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, COLUMNS, etc.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
2. PROPOSED MIX DESIGN SHALL BE ACCORDANCE WITH METHOD 1 OR METHOD 2 OF ACI 301. PROVIDE SUPPORTING DATA IN TABULAR FORM FOR EACH SEPARATE PROPOSED MIX.
3. SUBMIT CONCRETE MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE.

C5 REBAR SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL BE LAPPED MINIMUM ONE MESH + 2" WHERE SPLICED. ALL REINFORCING SHALL BE DOMESTICALLY PRODUCED.

C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

WELDED WIRE FABRIC	8"
ALL OTHER	36 DIA (12" MIN)

C7 REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 36 BAR DIA AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE REINF DEVELOPMENT DETAIL).



REINF DEVELOPMENT DETAIL

C8 AT CHANGES IN DIRECTION OF CONCRETE WALLS AND STRIP FOOTINGS, PROVIDE CORNER BARS AT SAME SIZE AND SPACING AS HORIZONTAL BARS. (REFER TO DETAIL ON DWGS).

C9 COVER FOR REINFORCING SHALL BE AS FOLLOWS:

1. a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
   b. CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 THRU #18 BARS — 2"
      #5 BAR, W31 OR D31 WIRE AND SMALLER — 1 1/2"
   c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS, JOISTS:
      #14 AND #18 BARS — 1 1/2"
      #11 BAR AND SMALLER — 3/4"
2. TILT-UP CONCRETE PANELS – FACE COVER
   a. WALL PANELS EXPOSED TO EARTH OR WEATHER
      #11 BAR AND SMALLER — 1" (EXCEPT 3/4" ALLOWED @ REVEALS)
   b. WALL PANELS NOT EXPOSED TO EARTH OR WEATHER
      #11 BAR AND SMALLER — 3/4"

C10 TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.

C11 CONTINUOUS TOP BARS SHALL BE SPLICED AT MID-SPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).

TILT UP PANELS

TU1 ALL PANELS ARE VIEWED FROM THE INSIDE.

TU2 PANEL THICKNESS SHALL BE AS INDICATED ON PLANS. SPECIAL ATTENTION MUST BE GIVEN THE LOCATION AND PLACEMENT OF THE REINFORCING.

TU3 REFER TO THE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS, CHAMFERS, REVEALS, ETC.

TU4 PANELS SHALL NOT BE LIFTED UNTIL CONCRETE HAS ATTAINED THE MINIMUM MODULUS OF RUPTURE AND COMPRESSIVE STRENGTH AS REQ'D BY LIFTING ENGINEER.

TU5 THE CONTRACTOR SHALL PROVIDE DESIGN FOR THE LIFT INSERTS AND ANY ADDITIONAL REINFORCING STEEL REQUIRED FOR THE LIFTING OPERATION. HOWEVER NO ADDITIONAL REINFORCING SHALL BE ADDED WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. THE DESIGNERS OF THE LIFTING INSERTS MUST CONSIDER THE REINFORCING ALREADY PRESENT IN THE PANELS AS INDICATED IN THIS SET OF CONSTRUCTION DWGS.

TU6 THE CONTRACTOR SHALL CHECK ALL PANEL DIMENSIONS, PLATE LOCATIONS AND DETERMINE THE LOCATIONS OF ALL OPENINGS REQUIRED. NO PANEL WORK SHALL BE PERFORMED WITHOUT CONTRACTORS APPROVAL OF ALL OF THE ABOVE. THE CONTRACTOR IS INDICATING THAT HE HAS REVIEWED THE ABOVE AND APPROVES THE PANEL DRAWINGS FOR ACCURACY BY THE COMMENCEMENT OF PANEL CONSTRUCTION EVEN IF FORMAL STAMPED APPROVAL HAS NOT BEEN INDICATED ON THOSE DRAWINGS.

TU7 MISCELLANEOUS OPENINGS MAY BE REQUIRED FOR FIRE LINES, PLUMBING, SANITARY LINES, ELECTRICAL CONDUITS, ETC. CORE DRILLING AFTER ERECTION OF THE PANELS MUST HAVE THE APPROVAL OF THE ARCHITECT AND ENGINEER PRIOR TO PERFORMANCE OF THE WORK.

TU8 THE REINFORCING STEEL SUPPLIER SHALL PROVIDE SHOP DWGS INDICATING ALL THE NECESSARY INFORMATION REQUIRED TO ACCURATELY POSITION THE REBAR AS INDICATED. ENSURE CHAIRS, BOLSTERS OR OTHER MEANS OF SUPPORTING REBARS ARE PROVIDED AND ACCURATELY DETAILED.

SPECIALTY ENGINEERING REQUIREMENTS

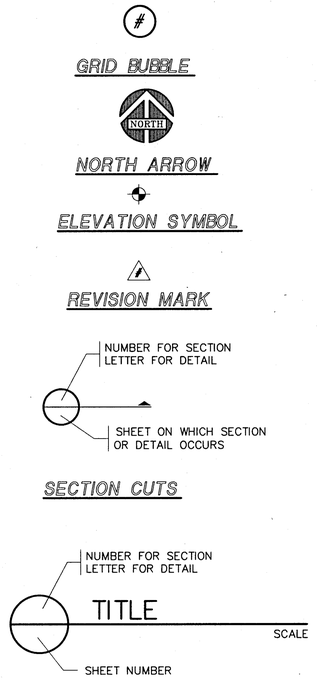
SE1 HANDRAILS, POSTS AND SUPPORT CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S SPECIALTY ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED & SEALED BY A ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. DESIGN LOADING(S) SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE. (SEE DESIGN CRITERIA FOR THE APPLICABLE BUILDING CODE.)

SE2 FLAGPOLES AND/OR SITE POLES SHALL BE DESIGNED BY THE POLE VENDOR'S SPECIALTY ENGINEER AND SHALL INCLUDE POLES, FOUNDATIONS AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION MINIMUM DESIGN LOADS SHALL CONFORM TO ANSI/NAAM FP100 "SPECIFICATIONS FOR DESIGN LOADS OF METAL FLAGPOLES".

SE3 AWNINGS SHALL BE DESIGNED BY THE FABRICATOR'S SPECIALTY ENGINEER AND SHALL INCLUDE FRAME, COVERING AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER IN THE SAME STATE AS THE PROJECT LOCATION. DESIGN LOADING(S) SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE. (SEE DESIGN CRITERIA FOR THE APPLICABLE BUILDING CODE).

SE4 STEEL PAN STAIRS SHALL BE DESIGNED BY THE FABRICATORS SPECIALTY ENGINEER AND SHALL INCLUDE STRINGERS, TREADS, HAND RAILINGS, PLATFORMS AS REQUIRED, PAN INSERTS, MISC SUPPORTS AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. MINIMUM DESIGN LIVE LOAD SHALL BE 100 PSF.

SYMBOL LEGEND



STRUCTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
ABV	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
AGGR	AGGREGATE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUDE
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
A.S.T.M.	AMERICAN SOCIETY OF TESTING MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY

B

BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES

C

C. TO C.	CENTER TO CENTER
CANT	CANTILEVER
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
℄	CENTERLINE
CLR	CLEAR(ANCE)
CM	CONCRETE MASONRY
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CSK	COUNTER SINK
CTR	CENTER

D

DET	DETAIL
DIAM	DIAMETER
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL

E

EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EQ SP	EQUAL SPACE(S) (ING)
ES	EACH SIDE
EW	EACH WAY
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FL	FLOOR
FLG	FLANGE
FS	FAR SIDE
FT	FOOT
FTG	FOOTING

G

GA	GAGE, GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GR	GRADE

H

HC	HOLLOW CORE
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD

I

ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR

J

JST	JOIST

K

K	KIP
KSI	KIPS PER SQUARE INCH
KSF	KIPS PER SQUARE FOOT

L

LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LSL	LONG SLOTTED HOLES
LONG	LONGITUDINAL
LP	LOW POINT

M

MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(ER)
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL

N

NS	NEAR SIDE
NTS	NOT TO SCALE

O

OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE

P

PERP	PERPENDICULAR
PC	PRECAST
ℙ	PLATE
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION

R

R	RADIUS
REF	REFERENCE
REINF	REINFORCE(D) (ING)
REQ	REQUIRE
REQ'D	REQUIRED
RF	ROOF
RTN	RETURN
RW	RETAINING WALL

S

SCH	SCHEDULE
SE	SLAB EDGE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SL	SLOPE
SP	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STR	STRENGTH
STRL	STRUCTURAL
SW	SHEAR WALL
SYMM	SYMMETRICAL

T

TB	TIE BEAM
T&B	TOP & BOTTOM
TC	TIE COLUMN
TDS	TURN DOWN SLAB
TEMP	TEMPERATURE
THK	THICK
THNS	THICKEN SLAB
TOP'G	TOPPING
TYP	TYPICAL
T/	TOP OF

U

UNO	UNLESS NOTED OTHERWISE

V

VERT	VERTICAL

W

WF	WALL FOOTING
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
W/	WITH

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Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: STRUCTURAL NOTES

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Job # 14000

Date: 8/11/00

Drawn by: S.K.

Checked by: J.M.

Sheet SN of

SLH-SN.dwg 08-16-00 2:22PM SCALE: 3/4"=12

STRUCTURAL GENERAL NOTES

LIGHTGAGE METAL FRAMING

LMF1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

LMF2 CONNECT STEEL STUDS AND TRACKS TO A36 STEEL OR CONCRETE WITH (2) POWDER DRIVEN PINS AT EACH STUD. CONNECT STEEL STUDS & TRACKS TO EACH OTHER WITH (2) 8–18 SCREWS AT EACH STUD. TYPICAL UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENTS OF STEEL STUD WORK.

NOTE: "POWDER DRIVEN PINS" REFER TO .177ø LOW VELOCITY POWDER DRIVEN FASTENERS WITH MINIMUM CAPACITIES AS FOLLOWS:

IN CONCRETE: 1 7/16" PENETRATION= 150# PULLOUT
285# SHEAR

IN STEEL: 1/4" PENETRATION = 350# PULLOUT
700# SHEAR

LMF3 STEEL STUDS SHALL MEET FOLLOWING DESIGN CRITERIA: GALV G–60 ASTM A525, MINIMUM YIELD STRESS TO BE 50,000 PSI FOR 14 & 16 GA, AND 33,000 PSI FOR 18 & 20 GA. TRACKS AND ALL OTHER COMPONENTS TO BE 33,000 PSI.

STUD SIZE	MINIMUM I	MINIMUM S
35/8"x16 GA	.8549	.4388
35/8"x18 GA	.6941	.3652
35/8"x20 GA	.5354	.2608
4"x16 GA	1.0752	.5027
4"x18 GA	.8722	.4177
4"x20 GA	.6722	.2589
6"x16 GA	2.8033	.8872
6"x18 GA	2.2675	.7328
6"x20 GA	1.7427	.5234
8"x14 GA	6.9477	1.7007
8"x16 GA	5.6294	1.3470
8"x18 GA	4.5454	1.1078
8"x20 GA	3.4876	.6684

NOTE:
ALL SIZES MAY NOT BE USED, SEE PLANS AND SECTIONS FOR SIZE(S) REQUIRED. (SIZES AND GAGES ON STRUCTURAL DWGS SHALL GOVERN OVER ARCH'L DWGS)

LMF4 BRACING DURING CONSTRUCTION
PROVIDE 1 1/2" COLD ROLLED CHANNELS OR HORIZONTAL STRAP BRACING FOR WALLS IMMEDIATELY AFTER STUDS ARE ERECTED.

STEEL JOISTS

SJ1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SJ2 ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND BRIDGING SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT SPECIFICATIONS OF STEEL JOIST INSTITUTE AND RECOMMENDED CODE OF STANDARD PRACTICE.

SJ3 THE ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED TO THE WALL OR BEAM.

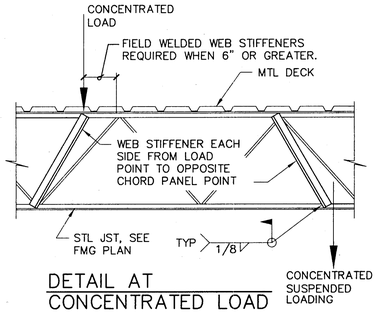
SJ4 ALL STEEL JOISTS ARE TO BE CAMBERED AS SPECIFIED BY STEEL JOIST INSTITUTE.

SJ5 PROVIDE BOTTOM AND/OR TOP CHORD EXTENSIONS AS SHOWN ON DRAWINGS.

SJ6 UNLESS NOTED OTHERWISE, MINIMUM JOIST BEARING SHALL BE 2 1/2" FOR K–SERIES JOISTS, 4" FOR LH, DLH AND SLH 15–18, AND 6" FOR SLH 19–25 ON A STEEL MEMBER OR EMBED PLATE.

SJ7 BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE SIZE AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. ALL JOISTS 40'–0" OR LONGER REQUIRE A ROW OF BOLTED BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. OTHER JOISTS REQUIRE SIMILAR BRIDGING, CONSULT LATEST SJI SPECIFICATIONS.

SJ8 ALL HANGERS CURBS AND/OR ROOF TOP FRAMES TO SUPPORT MECHANICAL EQUIPMENT, ETC. TO BE SUPPORTED BY THE JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF THE CONCENTRATED LOAD MUST BE LOCATED FURTHER THAN 6" FROM A PANEL POINT, PROVIDE JOIST STIFFENERS. L2x2x3/16 JOIST STIFFENERS MUST BE INSTALLED FROM LOAD TO OPPOSITE CHORD PANEL POINT BEFORE LOAD IS APPLIED.



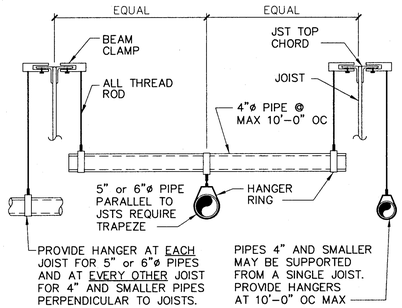
DETAIL AT CONCENTRATED LOAD

SJ9 CONTRACTOR TO FURNISH BAR JOIST CERTIFICATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION.

SJ10 FOR NET UPLIFT SEE NET UPLIFT PLAN ON ROOF FRAMING PLAN. PROVIDE UPLIFT BRIDGING.

SJ11 ALL ITEMS SUSPENDED FROM JOISTS (i.e. CATWALKS, BALCONIES, OPERABLE PARTITIONS, etc...) SHALL BE INSTALLED AFTER DEAD LOAD HAS BEEN APPLIED.

SJ12 ALL SPRINKLER AND ROOF DRAIN PIPES MUST BE SUPPORTED AS SHOWN BELOW:



NOTES:

1. LOCATE HANGERS WITHIN 6" OF THE JOIST TOP CHORD PANEL POINTS.
2. PIPES LARGER THAN 6" SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. INCLUDE LOCATION OF PIPE AND PREFERRED HANGING DETAIL IF OTHER THAN INDICATED ABOVE.
3. DESIGN OF LATERAL BRACING FOR SUSPENDED PIPES IN SEISMIC AREAS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL.
4. PIPES SUSPENDED IN CONFORMANCE WITH THIS DETAIL WILL LIMIT THE SPRINKLER SYSTEM WEIGHT TO 3.5 PSF EQUIVALENT DISTRIBUTED LOAD.

TYP PIPE HANGER DETAIL

SJ13 BOLTED TIE JOISTS (BTJ) ARE USED IN STEEL FRAMES WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS. JOIST(S) AT COLUMN LINES SHALL BE FIELD BOLTED AT THE COLUMNS WITH TWO 1/2"ø BOLTS TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.

SJ14 STEEL JOISTS SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT WHERE EXPOSED TO VIEW). ALL OTHER AREAS INCLUDING THAT WHICH WILL RECEIVE SPRAY–ON FIRE PROTECTION SHOULD NOT BE PRIMED.

SJ15 ANY STEEL JOIST WITHIN A 4'–0" DISTANCE FROM A PARALLEL SUPPORT SHALL BE FABRICATED IN SUCH A WAY THAT CAMBER OF THE JOIST WILL NOT CAUSE A PROBLEM INSTALLING THE METAL DECK.

STRUCTURAL STEEL

SS1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SS2 FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC "SPECIFICATIONS" FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", 9th EDITION OF THE ALLOWABLE STRESS DESIGN.

SS3 MATERIAL SPECIFICATIONS:

- ALL STEEL SHALL BE PRODUCED DOMESTICALLY.
- ROLLED SHAPES, PLATES AND BARS: ASTM A36 EXCEPT WIDE FLANGE SECTIONS SHALL BE ASTM A992.
- PIPE: ASTM A53, TYPE E, GRADE B.
- TUBES: ASTM A500 GRADE B.
- ANCHOR BOLTS, RODS, NUTS AND WASHERS: ASTM F1554 (A36)
- HEADED STUDS: ASTM A108 GRADE 1015 THROUGH 1020, COLD FINISHED CARBON STEEL, AWS D1.1, TYPE B.
- BOLTED STRUCTURAL CONNECTIONS: UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE 3/4"ø ASTM A325, TYPE N BOLTS INDICATED LESS THAN 5/8"ø SHALL BE ASTM A307.
- WELDED CONNECTIONS: ELECTRODES – E70XX UNO (LOW HYDROGEN). FILLET WELDS SHALL BE 3/16" UNO.

SS4 HIGH–STRENGTH FIELD BOLTED CONNECTIONS SHALL BE INSTALLED, TIGHTENED, TESTED AND INSPECTED ACCORDING TO "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC). CONNECTIONS SHALL NOT BE CLASSIFIED AS SLIP–CRITICAL (SC) UNLESS INDICATED ON PLANS AS SUCH. "SNUG–TIGHT" AS DEFINED IN THE SPECIFICATION IS SUFFICIENT FOR ALL BOLTED CONNECTIONS UNLESS THE BOLTS IN SUCH A CONNECTION ARE INDICATED AS SLIP CRITICAL (SC). SLIP CRITICAL BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION.

SS5 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.

SS6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

SS7 GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON–SHRINK, NON–METALLIC GROUT. (5000 PSI MIN)

SS8 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.

SS9 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

SS10 STRUCTURAL STEEL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT WHERE EXPOSED TO VIEW). ALL OTHER AREAS INCLUDING THAT WHICH WILL RECEIVE SPRAY–ON FIRE PROTECTION OR WHERE HEADED STUDS ARE TO BE WELDED SHOULD NOT BE PRIMED.

SS11 STEEL PAN STAIRS SHALL BE DESIGNED BY THE FABRICATOR AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS PROJECT LOCATION. DESIGN FOR 100 PSF LIVE LOAD.

STEEL ROOF DECK

RD1 SEE ROOF FRAMING PLAN(S) FOR STEEL DECK ATTACHMENT TO STRUCTURE.

RD2 STEEL ROOF DECK UNITS SHALL BE FABRICATED FROM STEEL CONFORMING TO SECTION A3 OF THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATIONS FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS. THE STEEL USED SHALL HAVE A MINIMUM YIELD STRENGTH OF 33KSI (230 MPa).

RD3 ALL FIELD WELDING OF DECK SHALL BE IN STRICT CONFORMANCE WITH ANSI/AWSD1.3 STRUCTURAL WELDING CODE.

RD4 GALVANIZING SHALL CONFORM TO ASTM–A653–94, STRUCTURAL QUALITY, AND FEDERAL SPEC. QQ–S–775.

RD5 SEE CHARTS BELOW FOR MINIMUM SECTION PROPERTIES REQUIRED FOR STEEL DECK. PROPERTIES SHOWN ARE REPRODUCED FROM THE VULCRAFT MANUAL.

ROOF DECK				
DECK TYPE	DESIGN THICK	I in^4/ft	Sp in^3/ft	Sn in^3/ft
B22	0.0295	0.169	0.186	0.192
B20	0.0358	0.212	0.234	0.247
B18	0.0474	0.292	0.318	0.327
F22	0.0295	0.121	0.112	0.121
F20	0.0358	0.151	0.139	0.148
F18	0.0474	0.207	0.190	0.195
A22	0.0295	0.112	0.098	0.106
A20	0.0358	0.140	0.122	0.130
A18	0.0474	0.192	0.167	0.172
N22	0.0295	0.772	0.382	0.433
N20	0.0358	0.964	0.501	0.552
N18	0.0474	1.334	0.688	0.749
E24	0.0239	0.058	0.098	0.103
E22	0.0295	0.073	0.130	0.134
E20	0.0358	1.088	0.167	0.165

MECHANICAL FASTENERS

MF1 EXPANSION ANCHORS SHALL BE "POWER–STUD" BY RAWL OR "TRUBOLT" BY ITW RAMSET/REDHEAD OR ENGINEER–APPROVED EQUAL.

MF2 ADHESIVE ANCHORS SHALL BE "POWER–FAST" BY RAWL OR "EPCON" BY ITW RAMSET/REDHEAD OR ENGINEER–APPROVED EQUAL.

MF3 MASONRY SCREWS SHALL BE "TAPPERS" BY RAWL OR "TAPCON" BY ITW RAMSET/REDHEAD OR ENGINEER–APPROVED EQUAL.

MF4 POWDER–ACTUATED FASTENERS (PAF) SHALL BE BY ITW RAMSET/REDHEAD, HILTI, OR ENGINEER–APPROVED EQUAL.

MF5 REFER TO LIGHT–GAGE FRAMING NOTES (IF APPLICABLE) FOR ADDITIONAL INFORMATION.

MF6 CARBON–STEEL EXPANSION ANCHORS SHALL HAVE A ONE–PIECE ANCHOR BODY WITH A LENGTH IDENTIFICATION CODE. THE ANCHORS SHALL HAVE AN EXPANSION MECHANISM WHICH CONSISTS OF A PAIR OF INTERLOCKING INDEPENDENT WEDGES. CARBON STEEL COMPONENTS SHALL BE PLATED ACCORDING TO ASTM SPECIFICATION B 6.33. EXPANSION ANCHORS MUST MEET THE DESCRIPTION IN FEDERAL SPECIFICATION FF–8–325 FOR CONCRETE EXPANSION ANCHORS.

MF7 ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO LIGHT GAGE METAL FRAMING NOTES (IF APPLICABLE) FOR ADDITIONAL INFORMATION.

Burton Braswell Middlebrooks Associates, Inc.
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Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

MIKLOS & ASSOCIATES P.A. ARCHITECTS/PLANNERS
2263 N.W. BOCA RATON BLVD., SUITE 112, BOCA RATON, FL 33431 PH. (561) 392–6762 FAX. (561) 750–8465

Contents: STRUCTURAL NOTES

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COLUMN & BASE PLATE SCHEDULE

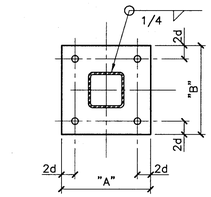
COLUMN MARK	COLUMN SIZE	BASE PLATE (") A	B	T	ANCHOR BOLT (") E (NOTE 2)	d	CAP PLATE	REMARKS
C1	HSS 7X7X3/16	13	13	3/4	10	3/4	–	

NOTES:
1. ANCHOR BOLTS SHALL BE ASTM A36 (UNO) THREADED EACH END WITH NUT AT BOTTOM, TACK WELDED SECURE. PLATE WASHER AT BOTTOM NUT SHALL NOT BE REQUIRED. CONFORM TO CHART AT RIGHT FOR EMBEDMENT, UNLESS NOTED OTHERWISE IN SCHEDULE ABOVE.
2. MAXIMUM EMBEDMENT, "E" = FTG THICKNESS −5".
3. ℙ WASHERS SHALL HAVE HOLE WITH DIAMETER EQUAL TO BOLT DIAMETER + 1/16".

BOLT TYPE, TYPE MATERIAL	MINIMUM EMBEDDED LENGTH	MINIMUM EMBEDDED EDGE DISTANCE
A307, A36	12d	5d> 4 in.
A325, A449	17d	7d> 4 in.

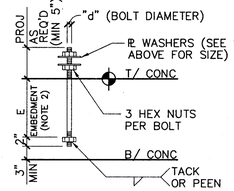
OVERSIZED HOLES AND PLATE WASHERS FOR BASE PLATES

BOLT DIAMETER	HOLE DIAMETER	ℙ WASHERS	BOLT DIAMETER	HOLE DIAMETER	ℙ WASHERS
3/4"	1 5/16"	5/16"x3"x3"	1 1/2"	2 5/16"	7/16"x5"x5"
7/8"	1 9/16"	5/16"x3"x3"	1 3/4"	2 3/4"	7/16"x5"x5"
1"	1 13/16"	3/8"x4"x4"	2"	3 1/4"	1/2"x6"x6"
1 1/4"	2 1/16"	3/8"x4"x4"	2 1/2"	3 3/4"	1/2"x6"x6"



BASE ℙ DETAIL

NTS



AB DETAIL

NTS

FOUNDATION SCHEDULE

MARK	SIZE (L x W x D)	REINFORCING	REMARKS
WF1	CONT.X2'−6"X1'−0"	(3)#5 CONT.,#3@ 18" O.C. TRANS.	WALL FTG.
WF2	CONT.X2'−0"X1'−0"	(2)#5 CONT.,#3@ 24" O.C. TRANS.	WALL FTG.
F1	8'−6"X8'−6"X2'−0"	(7)#7 EW, BOTT.	PAD FTG.
F2	5'−0"X5'−0"X1'−0"	(5)#5 EW, BOTT.	PAD FTG.
F3	3'−0"X3'−0"X1'−0"	(3)#5 EW, BOTT.	PAD FTG.

FOUNDATION DESIGN INFORMATION:

NET ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF
PER SOILS REPORT PREPARED BY: PROFESSIONAL ENGINEERING & INSPECTION CO., INC.
DESIGNATED REPORT #1072144, DATED JULY 12, 2000

FOUNDATION PLAN NOTES:

1. FLOOR SLAB SHALL BE 5" THICK CONCRETE REINF W/6 X 6−W2.1 X W2.1 OVER 6 MIL VAPOR BARRIER ON COMPACTED SUBGRADE. (SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINF)

1a. FIBER REINFORCED CONCRETE IS AN ACCEPTABLE ALTERNATIVE TO WELDED WIRE FABRIC. REINFORCED CONCRETE FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS AS MANUFACTURED BY FIBER MESH CO, OR APPROVED EQUAL APPLIED AT A RATE OF 1 1/2lbs/CY.

2. T/ SLAB EL = 100'−0", UNO (REFERENCE ONLY) SEE CIVIL DWGS FOR ACTUAL ELEVATION.

3. T/ WALL FTG EL = 99'−0", TYP UNO.

4. T/ STL COL FTG = 99'−0", TYP UNO.

5. ALL TILT−UP PANELS ARE 7 1/4" THICK(6 1/2" STRUCTURAL + 3/4" REVEAL ALLOWANCE = 7 1/4" TOTAL THICKNESS) U.N.O.

6. STEP FOOTING WHERE SHOWN AND AS REQUIRED TO AVOID INTERFERENCE W/ OTHER TRADES. SEE STEPPED FOOTING DETAIL 7/S2.

7. ALL FTGS ARE CENTERED BENEATH BEARING WALLS AND COLS, TYP UNO.

8. SEE SHT S7 & S8 FOR PANEL REINF, EMBEDDED ITEMS AND JOINT DETAILS.

9. SEE PLAN FOR WIDTH OF PERIMETER LEAVEOUT.

10. SEE SHEET SN FOR GENERAL NOTES.

11. (2) #4 x 4'−0" LONG @ 3" C/C PLACED 2" CLEAR FROM CORNER CENTERED IN SLAB, TYP.

12. MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS.

FOUNDATION PLAN

SCALE:1"=20'−0"

NORTH

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SLH−S1.dwg 08−16−00 2:48PM SCALE: 1=20'

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
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BOCA RATON, FLORIDA

Contents: FOUNDATION PLAN

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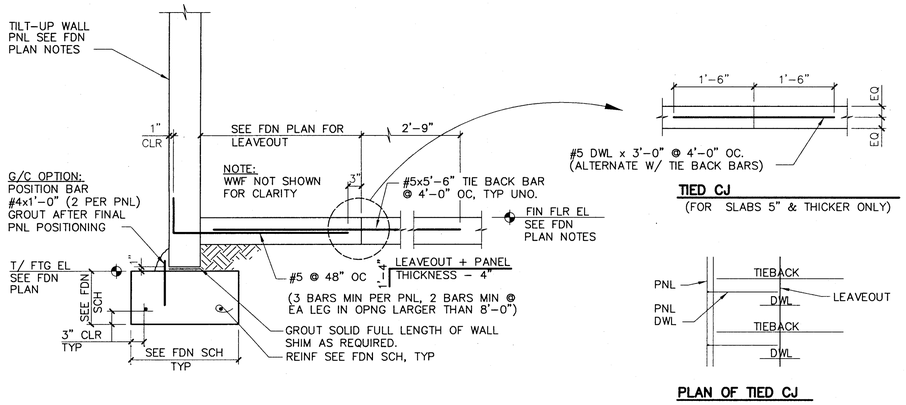
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Date: 8/11/00

Drawn by: S.K.

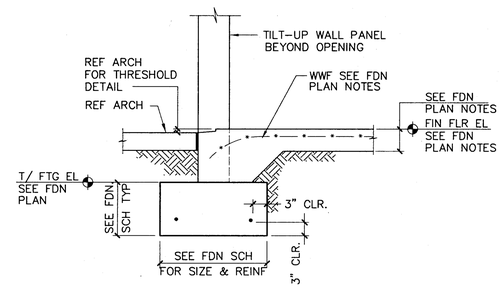
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Sheet S1 of

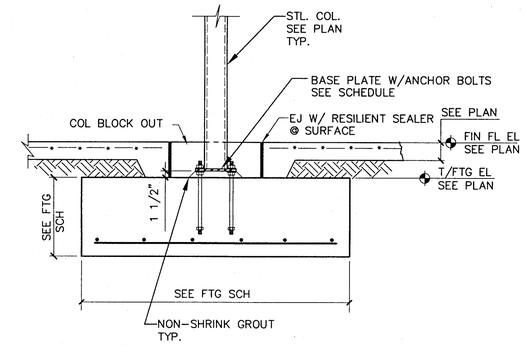


1 / S2 SECTION @ GRADE LEVEL EXT WALL FTG

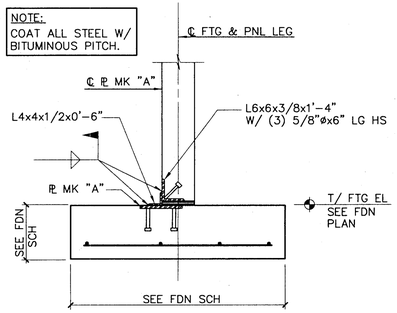
SCALE: 3/4"=1'-0" TYP. U.N.O



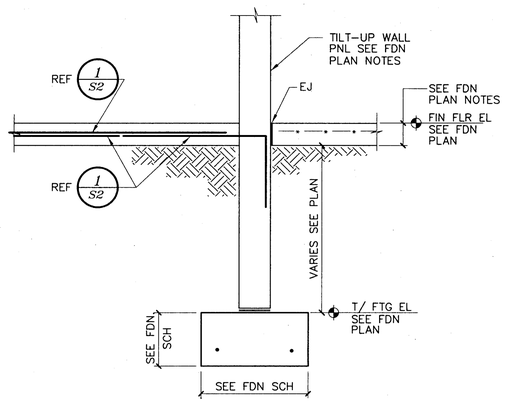
2 / S2 SECTION @ PERSONNEL DOOR AT FRONT ENTRIES



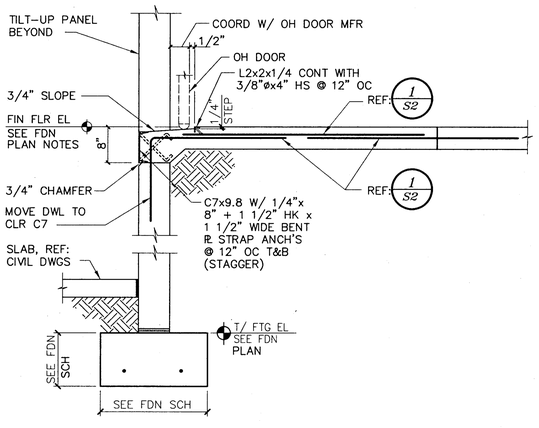
3 / S2 SECTION @ INT. COLUMN



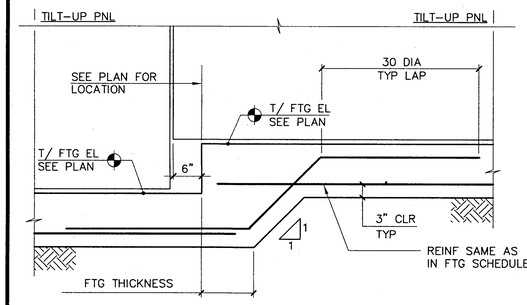
4 / S2 SECTION @ WALL FTG PNL LEG



5 / S2 SECTION @ INT FTG



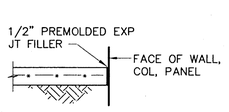
6 / S2 SECTION @ DOCK DOOR & PERSONNEL DOORS @ REAR OF BLDG.



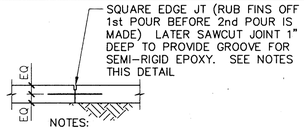
7 / S2 DETAIL @ STEP FTG

SEMI-RIGID EPOXY NOTES

1. SEMI-RIGID EPOXY SHALL BE PROVIDED IN CONSTRUCTION & SAWCUT JOINTS WHERE EXPOSED TO TRAFFIC. EPOXY SHALL BE MM80 BY METZGER/McGUIRE OR EUCO 700 BY EUCLID.
2. CONCRETE SHALL AGE A MINIMUM OF 90 DAYS. CHASE THE JOINT WITH A CONCRETE SAW AND BLOW CLEAN W/ COMPRESSED AIR.
3. USE BACKER ROD TO CREATE VERTICAL DAM AT EA END OF THE LEG TO BE FILLED. DO NOT USE BACKER ROD AT THE BOTTOM OF THE JOINT.
4. LEAVE THE SURFACE CROWNED AND GRIND FLUSH AFTER IT HAS HARDENED.



EJ (EXPANSION JOINT)

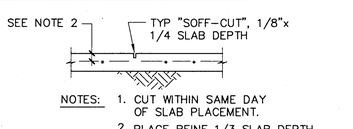


NOTES:
1. USE SMOOTH DWL W/ PROJECTED END COATED TO PREVENT BOND. SEE SCHEDULE BELOW.
2. REINF NOT SHOWN FOR CLARITY. DISCONTINUE REINF @ JOINT.
3. APPLY BOND BREAKER TO VERT SURFACE OF JOINT.

SMOOTH DOWEL SCHEDULE			
SLAB DEPTH (IN)	DIAMETER (IN)	TOTAL LENGTH (IN)	SPACING C TO C (IN)
5	5/8	12	16
6	3/4	14	16
7	7/8	14	16
8	1	14	18
9	1 1/8	16	18
10	1 1/4	16	18

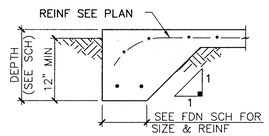
NOTE: DWLS SHALL BE CUT TO LENGTH NOT SHEARED. GRIND ANY BURRS SMOOTH FROM PROJECTED END.

CJ (CONSTRUCTION JOINT - DOWELLED)



NOTES:
1. CUT WITHIN SAME DAY OF SLAB PLACEMENT.
2. PLACE REINF 1/3 SLAB DEPTH FOR SLABS GREATER THAN 5", 1 1/2" CLR FOR SLABS 5" OR LESS.
3. SEE SEMI-RIGID NOTES THIS DTL.

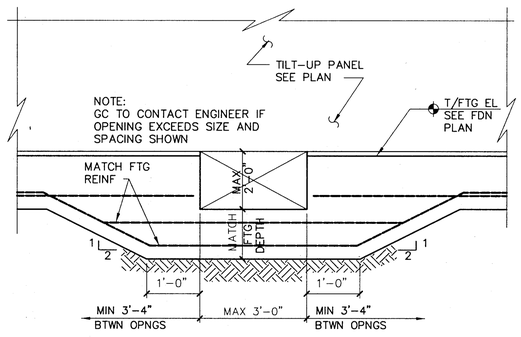
SJ (SAWCUT JOINT)



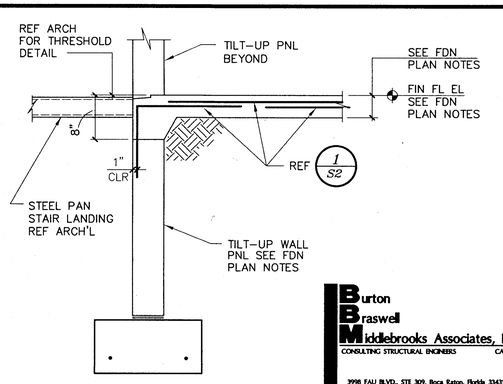
TDS (TURNED DOWN SLAB)
(SEE FOUNDATION SCHEDULE)

A / S2 SLAB-ON-GRADE DETAILS FOR 5" & THICKER SLABS

NTS



B / S2 TYP MECH OPNG THRU FTG



8 / S2 SECTION @ PERSONEL DOOR

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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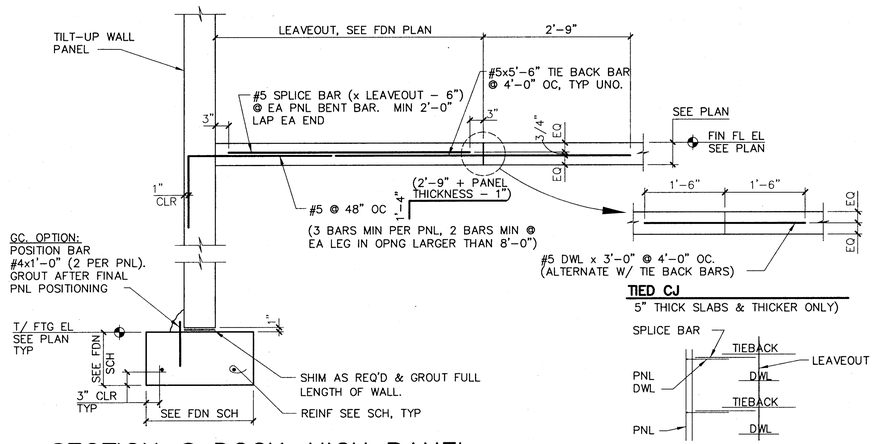
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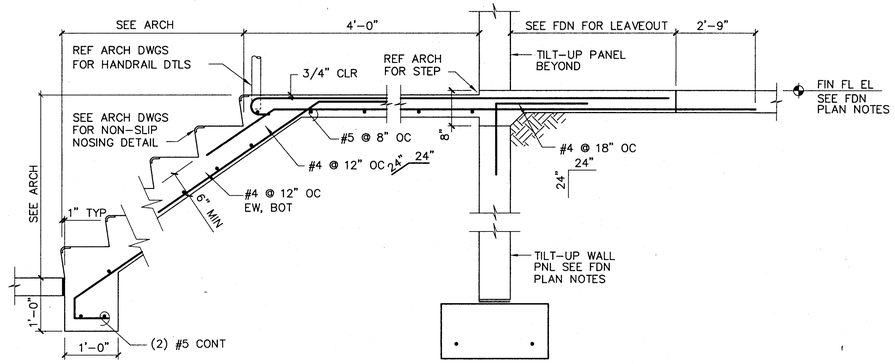


1/S3 SECTION @ DOCK-HIGH PANEL

TIED CJ

5" THICK SLABS & THICKER ONLY)

PLAN OF TIED CJ



2/S3 SECTION DOOR OPNG @ CANT STAIR

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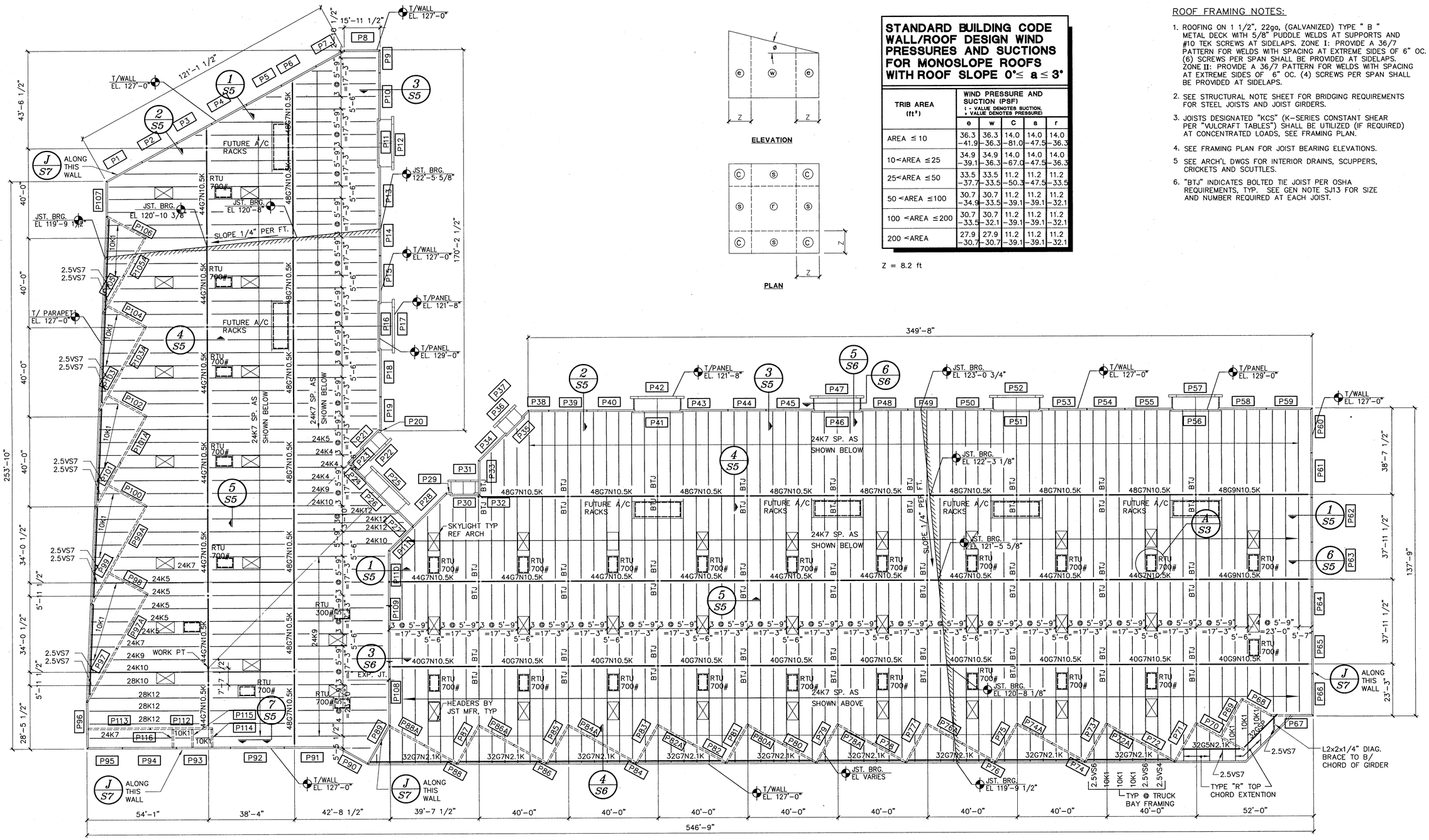
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STANDARD BUILDING CODE WALL/ROOF DESIGN WIND PRESSURES AND SUCTIONS FOR MONOSLOPE ROOFS WITH ROOF SLOPE $0° \leq a \leq 3°$

TRIB AREA (ft^2)	WIND PRESSURE AND SUCTION (PSF) (- VALUE DENOTES SUCTION, + VALUE DENOTES PRESSURE)				
	e	w	C	s	r
AREA ≤ 10	36.3 −41.9	36.3 −36.3	14.0 −81.0	14.0 −47.5	14.0 −36.3
10<AREA ≤25	34.9 −39.1	34.9 −36.3	14.0 −67.0	14.0 −47.5	14.0 −36.3
25<AREA ≤50	33.5 −37.7	33.5 −33.5	11.2 −50.3	11.2 −47.5	11.2 −33.5
50 <AREA ≤100	30.7 −34.9	30.7 −33.5	11.2 −39.1	11.2 −39.1	11.2 −32.1
100 <AREA ≤200	30.7 −33.5	30.7 −32.1	11.2 −39.1	11.2 −39.1	11.2 −32.1
200 <AREA	27.9 −30.7	27.9 −30.7	11.2 −39.1	11.2 −39.1	11.2 −32.1

Z = 8.2 ft

ROOF FRAMING NOTES:

1. ROOFING ON 1 1/2", 22ga, (GALVANIZED) TYPE " B " METAL DECK WITH 5/8" PUDDLE WELDS AT SUPPORTS AND #10 TEK SCREWS AT SIDELAPS. ZONE I: PROVIDE A 36/7 PATTERN FOR WELDS WITH SPACING AT EXTREME SIDES OF 6" OC. (6) SCREWS PER SPAN SHALL BE PROVIDED AT SIDELAPS. ZONE II: PROVIDE A 36/7 PATTERN FOR WELDS WITH SPACING AT EXTREME SIDES OF 6" OC. (4) SCREWS PER SPAN SHALL BE PROVIDED AT SIDELAPS.
2. SEE STRUCTURAL NOTE SHEET FOR BRIDGING REQUIREMENTS FOR STEEL JOISTS AND JOIST GIRDERS.
3. JOISTS DESIGNATED "KCS" (K-SERIES CONSTANT SHEAR PER "VULCRAFT TABLES") SHALL BE UTILIZED (IF REQUIRED) AT CONCENTRATED LOADS, SEE FRAMING PLAN.
4. SEE FRAMING PLAN FOR JOIST BEARING ELEVATIONS.
5. SEE ARCH'L DWGS FOR INTERIOR DRAINS, SCUPPERS, CRICKETS AND SCUTTLES.
6. "BTJ" INDICATES BOLTED TIE JOIST PER OSHA REQUIREMENTS, TYP. SEE GEN NOTE SJ13 FOR SIZE AND NUMBER REQUIRED AT EACH JOIST.

ROOF PLAN

SCALE: 1"-20'-0"

ROOF DESIGN LOADS		
LIVE LOAD	DEAD LOAD	
20 PSF	25 PSF	

NOTES:
1. SEE "NET UPLIFT PLAN" FOR NET UPLIFT LOADS.
2. SEE PLAN FOR CONCENTRATED LOADS.

LATERAL DESIGN LOAD
WIND VELOCITY = 110 MPH
IMPORTANCE FACTOR = 1.0

Revisions:

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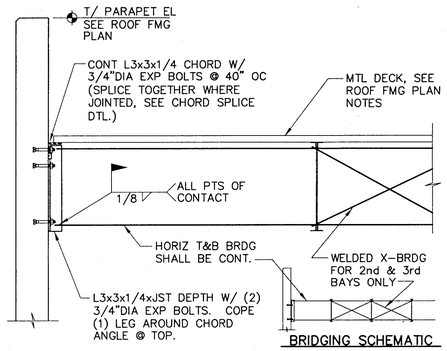
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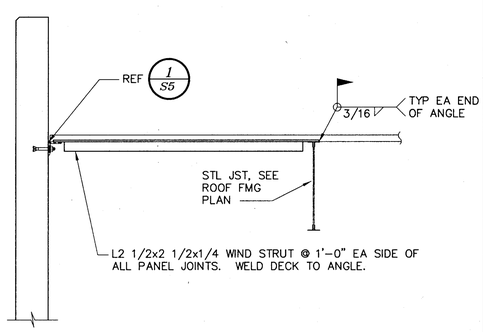
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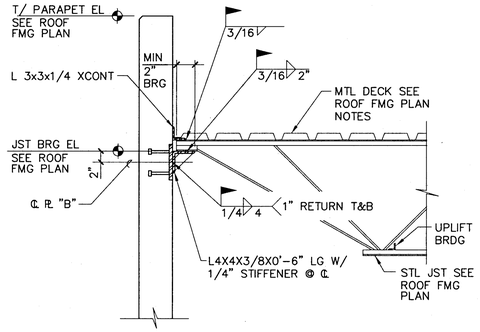
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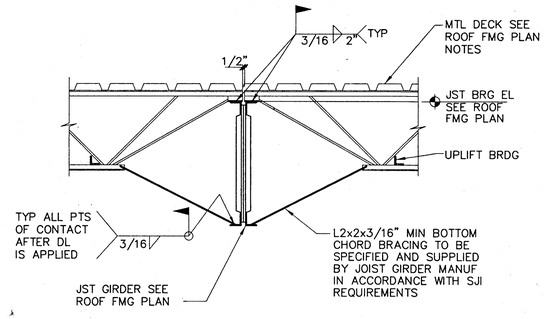
1 S5 SECTION @ BRIDGING



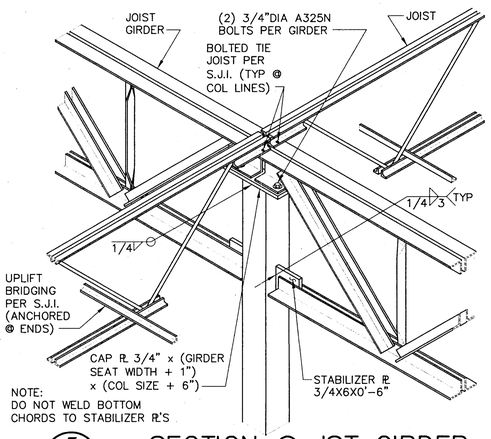
2 S5 SECTION @ PNL JOINT



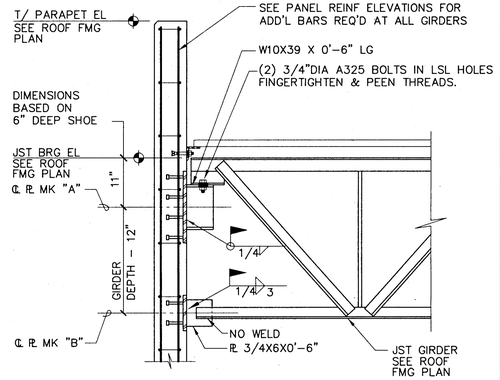
3 S5 SECTION @ JOIST BRG (K-SERIES JST)



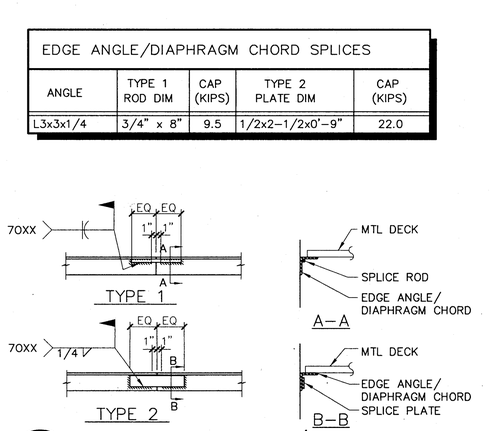
4 S5 SECTION @ JSTS TO GIRDER



5 S5 SECTION @ JST GIRDER TO HSS COLUMN



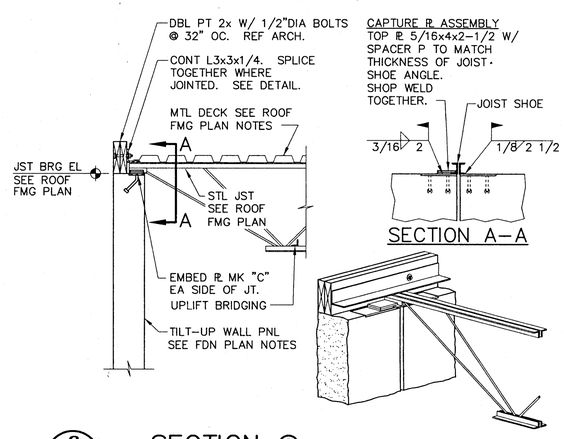
6 S5 SECTION @ JOIST GIRDER BEARING



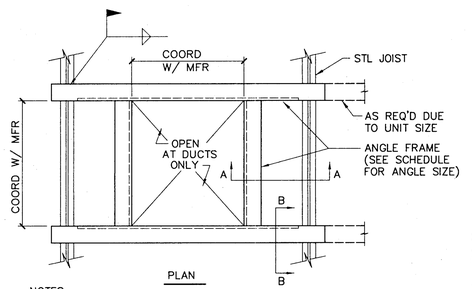
EDGE ANGLE/DIAPHRAGM CHORD SPLICES

ANGLE	TYPE 1 ROD DIM	CAP (KIPS)	TYPE 2 PLATE DIM	CAP (KIPS)
L3x3x1/4	3/4" x 8"	9.5	1/2x2-1/2x0'-9"	22.0

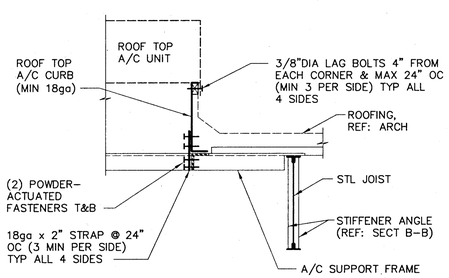
7 S5 EDGE ANGLE/DIAPHRAGM CHORD SPLICE DETAIL



8 S5 SECTION @ JST BRG TO PNL JOINT



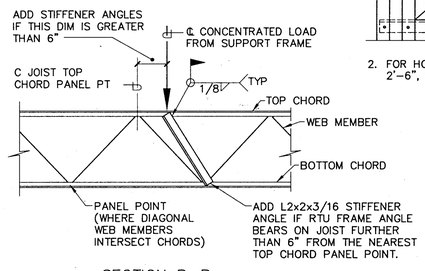
NOTES:
1. VERIFY ALL DIM'S & DETAILS W/ MECH CONTR BEFORE FABRICATION.
2. A/C UNIT TOTAL WEIGHT-SEE PLAN FOR WEIGHT AND FRAME SCHEDULE FOR ANGLE FRAME SIZE.
3. PROVIDE L3x3x1/4 FRAME AT ALL OPNGS GREATER THAN 12" ON ANY SIDE.
4. THE ANGLE FRAME SHALL BE PROVIDED SO THAT THE ENTIRE PERIMETER OF THE RTU CURB IS SUPPORTED.



SECTION A-A
(A/C CURB CONNECTION)

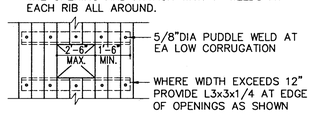
ROOF TOP UNIT FRAME SCHEDULE

UNIT WEIGHT	ANGLE SIZE
0 - 675 lbs	L4x3x1/4 LLH
676 - 1500 lbs	L4x3 1/2x5/16 LLH
1501 - 3000 lbs	L6x4x3/8 LLH
3001 - 6000 lbs	L6x6x3/8



SECTION B-B
(CONCENTRATED LOAD REINFORCING)

1. FOR HOLES WITH A MAXIMUM DIMENSION OF 6" TO 12", REINF DECK OPENING WITH A 20 GA GALV FLAT PLATE 12" LARGER IN SIZE THAN THE OPENING AND ATTACH WITH 1" WELDS AT EACH RIB ALL AROUND.



2. FOR HOLES WITH A MAX DIMENSION OF 12" TO 2'-6", SEE DETAIL ABOVE.

METAL DECK OPENINGS

A S5 DETAIL MECH ROOF SUPPORT & SCHEDULE
NTS

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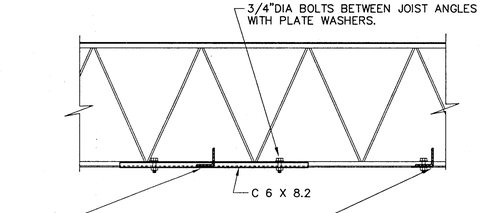
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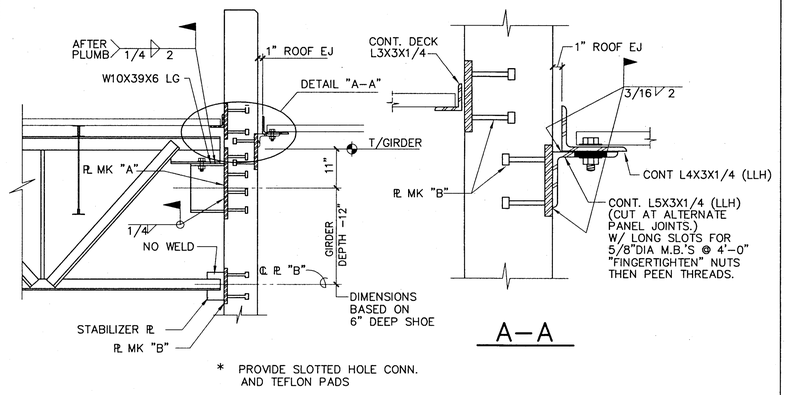
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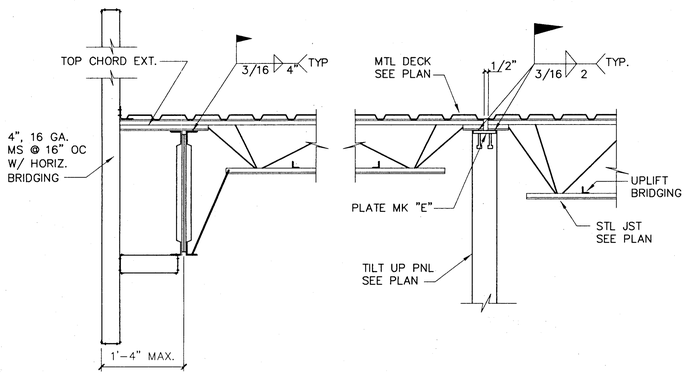
1/S6 NOT USED



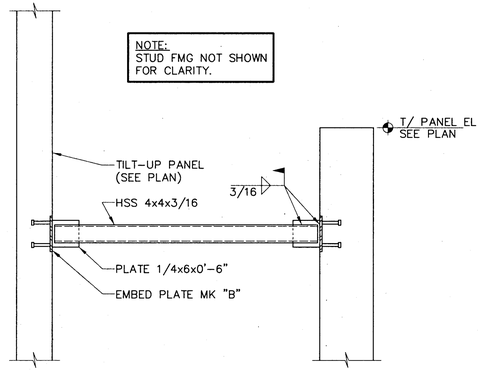
2/S6 SECTION @ HANGER



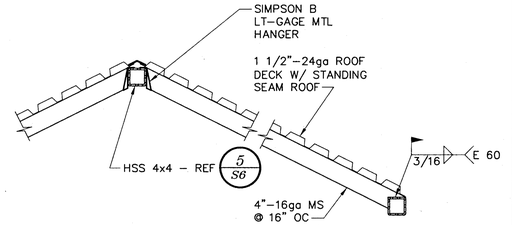
3/S6 SHEARWALL - EXP. JNT.



4/S6 SECTION



5/S6 SECTION @ ENTRY



6/S6 SECTION @ ENTRY

Burton Braswell Middlebrooks Associates, Inc.
CONSULTING STRUCTURAL ENGINEERS CA3343
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Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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Contents: ROOF DETAILS

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Job # 14000

Date: 8/11/00

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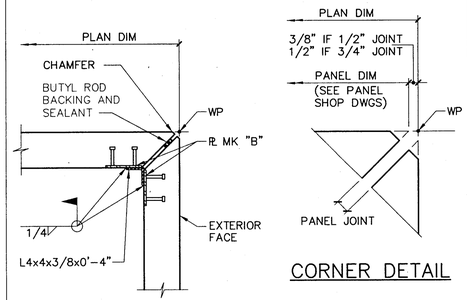
Checked by: JM

Sheet S6 of

SLH-S6.dwg 08-16-00 3:51PM SCALE: 3/4"=12

PANEL SCHEDULE

TYPE	PANEL LIST	TOTAL PANEL THICKNESS (INCLUDES 3/4" REVEAL ALLOWANCE)
1	P1 THRU P9, P33, P60 THRU P68, P70, P70A, P72, P72A, P74, P74A, P76, P76A, P78, P78A, P80, P80A P82, P82A, P84, P84A, P86, P86A, P88, P88A, P90, P91, P92, P96, P97, P97A, P99, P99A, P101, P101A, P103, P103A, P105, P105A, P107 THRU P116	7 1/4"
2	P93, P94, P95	7 1/4"
3	P12, P17, P22, P26, P31, P36, P42, P47, P52, P57	12"
4	P10, P13, P14, P15, P18, P19, P28, P34, P39, P40, P43, P44, P45, P48, P49, P50, P53, P54, P55, P58, P59	7 1/4"
5	P11, P16, P25, P41, P46, P51, P56	7 1/4"
6	P69, P71, P73, P75, P77, P79, P81, P83, P85, P87, P89, P106	7 1/4"
6A	P98, P100, P102, P104	
7	P21, P30, P35	7 1/4"
8	P23, P24, P27, P38	7 1/4"
9	P20, P29, P32. P37 NOTE: PANEL 20 MAY BE TO NARROW FOR TYPICAL TILT LIFTING AND MAY REQUIRE TO BE FORMED AND POURED IN PLACE.	7 1/4"

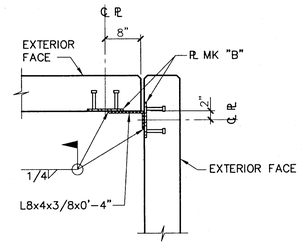


CORNER DETAIL

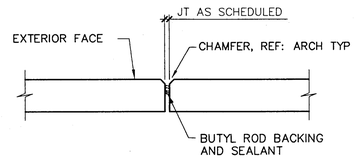
NOTE:
CONNECTIONS TO BE LOCATED 1'-0" BELOW JST BRG & 1'-0" AFF & APPROX EQ SPACES, NOT TO EXCEED 8'-0" OC.

A S7 DETAIL MITER CONN

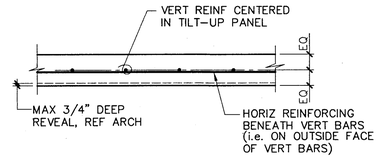
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B S7 DETAIL BUTT CONN

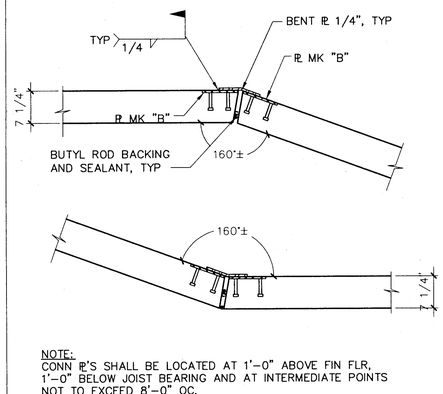


C S7 DETAIL TYP PNL JOINT
NTS, TYP



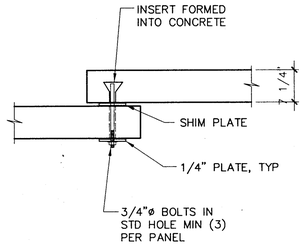
D S7 TYP PANEL REINF (CENTERED)

E S7 DETAIL MITER CONN

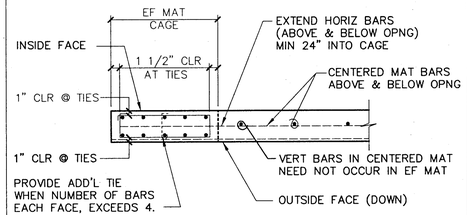


NOTE:
CONN ℄'S SHALL BE LOCATED AT 1'-0" ABOVE FIN FLR, 1'-0" BELOW JOIST BEARING AND AT INTERMEDIATE POINTS NOT TO EXCEED 8'-0" OC.

F S7 DETAIL MITER CONN

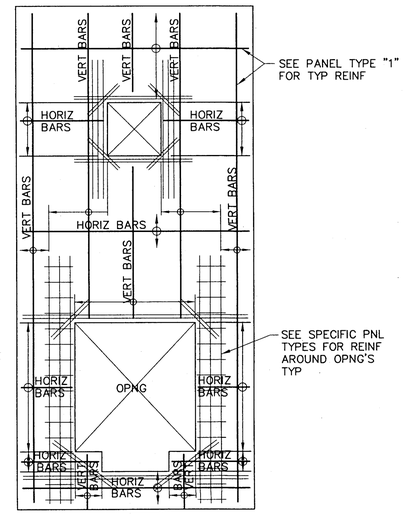


G S7 DETAIL AT OVERLAP



NOTES:
1. SHIFT TIES TO AVOID CONFLICT W/ REVEALS.
2. ALL BARS MUST BE PLACED INSIDE THE TIES. DO NOT PLACE ANY BARS OUTSIDE OF THE TIES.

H S7 TYP PANEL REINF DESIGNATED "EF"



K S7 TYP BAR PLACEMENT FOR PANELS

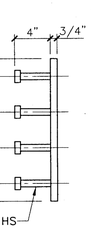


PLATE MK "A"

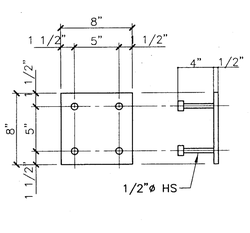


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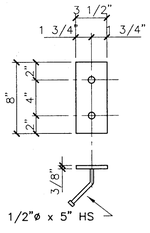


PLATE MK "C" (K SERIES JST)

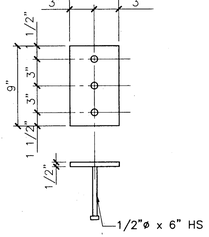
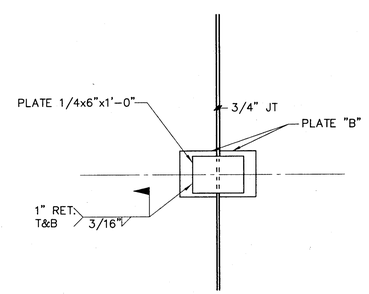


PLATE MK "D"

NOTES:
1. SEE ARCH JAMB DETAILS FOR EMBEDDED JAMB CHANNEL AT OVERHEAD DOORS (IF REQ'D).
2. EMBED MAX DESIGN PARAMETERS

K-SERIES	LH-SERIES
20 LIVE	20 LIVE
25 DEAD	25 DEAD
50' SPAN(25' TRIB)	80' SPAN(40' TRIB)
6'-0" OC SPACING	6'-0" OC SPACING

I S-X EMBED PLATE DETAILS



MIN. (3) CONNECTIONS PER PANEL SEE PLAN FOR REQUIRED WALLS

J S7 PANEL TO PANEL CONN.

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: TILT PANEL DETAILS

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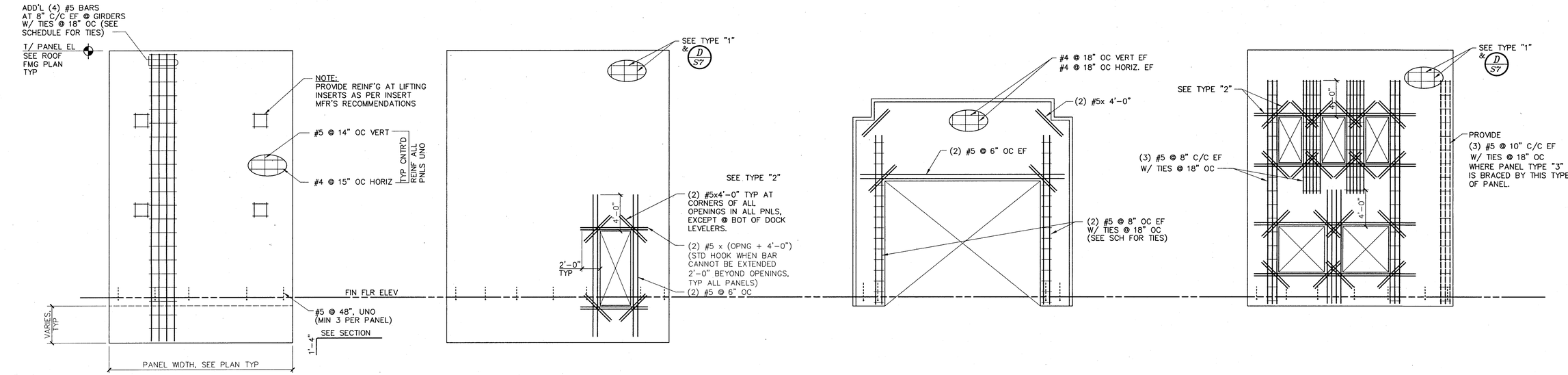
Drawn by: SK

Checked by: JM.

Sheet S7 of

Burton Braswell Middlebrooks Associates, Inc.
CONSULTING STRUCTURAL ENGINEERS CA5343
2998 FAU BLVD., STE 309, Boca Raton, Florida 33431
(561) 750-1996 Fax: (561) 750-1998
E-MAIL: bbmboca@bellsouth.net

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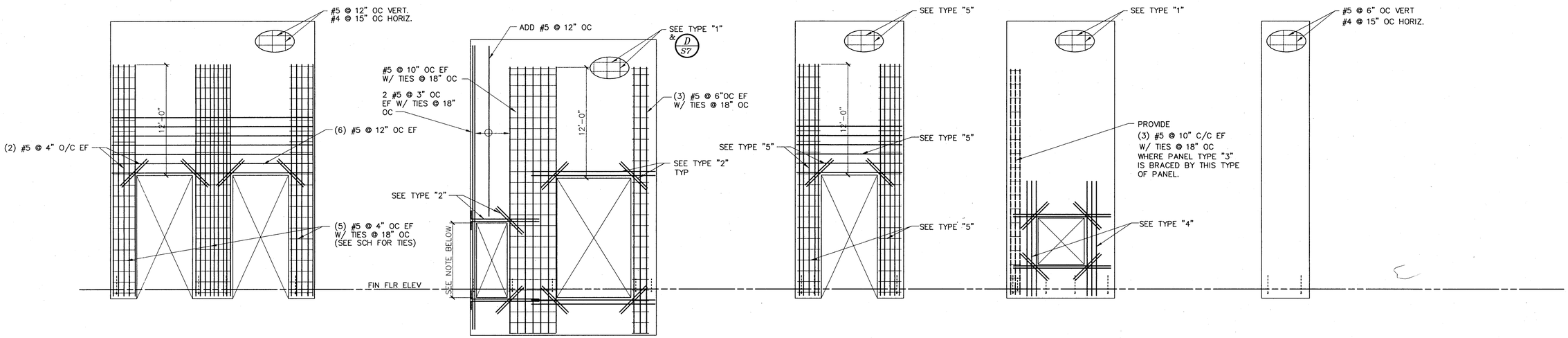


PANEL TYPE "1"
TYP SOLID PANEL

PANEL TYPE "2"
W/ PERSONNEL DOOR

PANEL TYPE "3"
W/ LARGE OPNG

PANEL TYPE "4"



PANEL TYPE "5"

PANEL TYPE "6"&"6A"

NOTE: AT PANEL TYPE "6A" NO LEG

PANEL TYPE "7"

PANEL TYPE "8"

PANEL TYPE "9"

Revisions:

Project: PROPOSED WAREHOUSES for:
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1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: TILT PANEL REINF.

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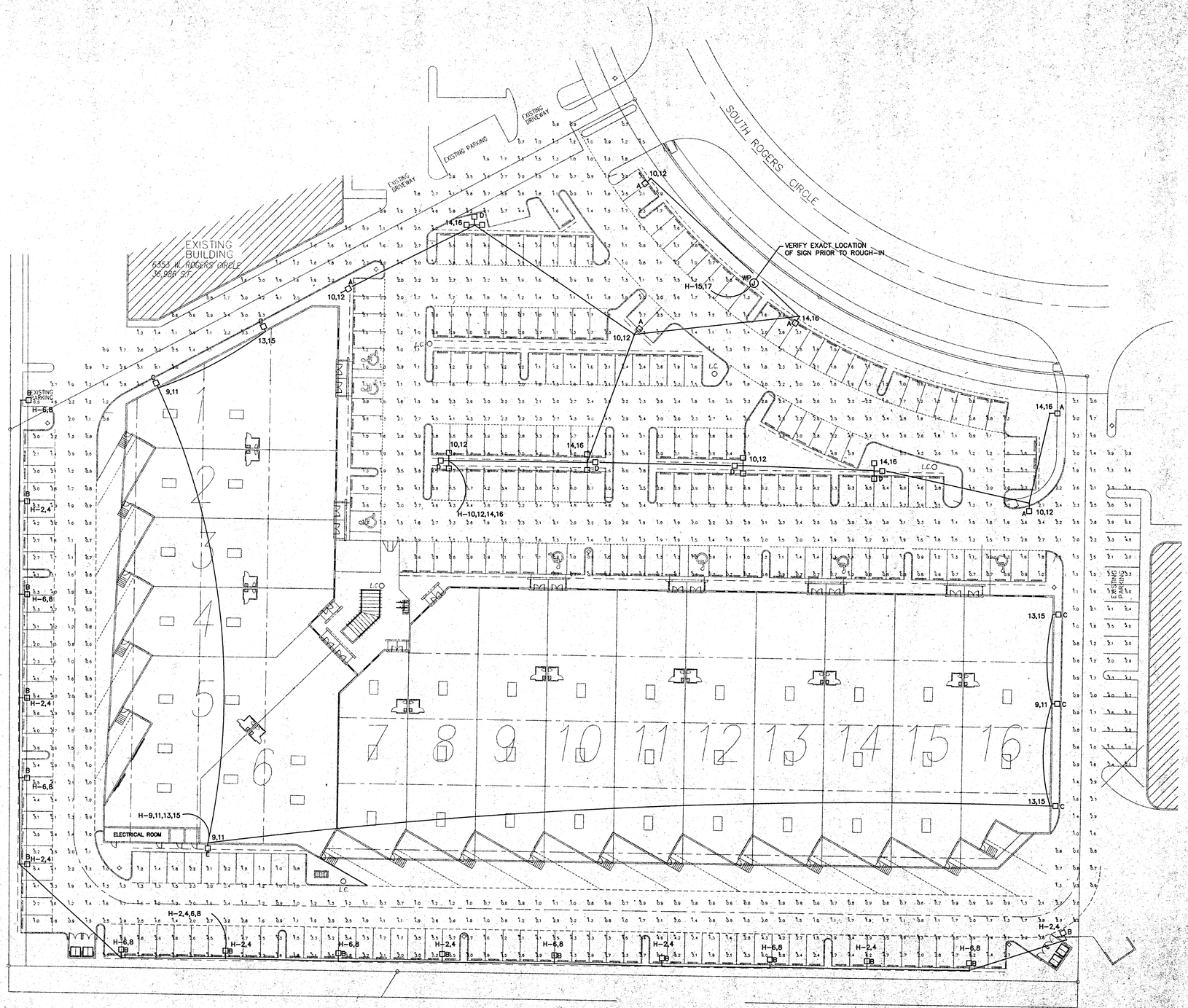
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Checked by: JM.

Sheet S8 of

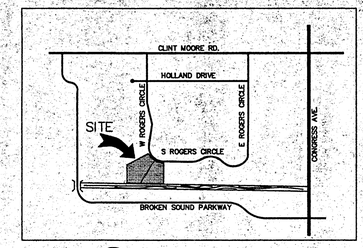
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SITE ELECTRICAL PLAN

SCALE: 1" = 30'-0"



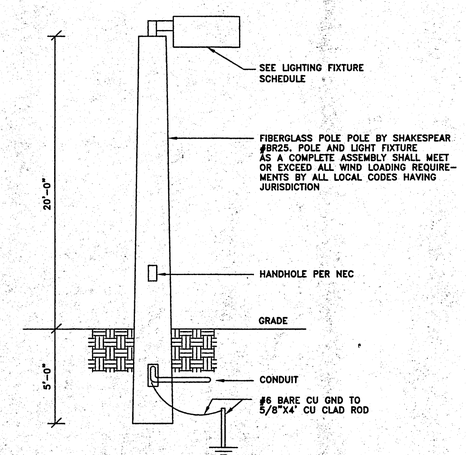
LOCATION SKETCH
NOT TO SCALE

Revisions:

SITE LIGHT LEGEND

A	HUBBELL MSQ-A250H-VP8-1, 480V
B	HUBBELL MSQ-A250H-HT8-1, 480V
C	HUBBELL MSQ-A250H-HT8-1-WM, 480V, +20' AFG
D	HUBBELL MSQ-A250H-VW8-1, 480V
E	HUBBELL MSQ-A250H-VP8-1-WM, 480V, +20' AFG

Illuminance Values(Fc)
Average = 2.36
Maximum =6.8
Minimum =0.6
Avg/Min Ratio= 3.93
Max/Min Ratio= 11.33



LIGHTING POLE DETAIL

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: SITE ELECTRICAL PLAN

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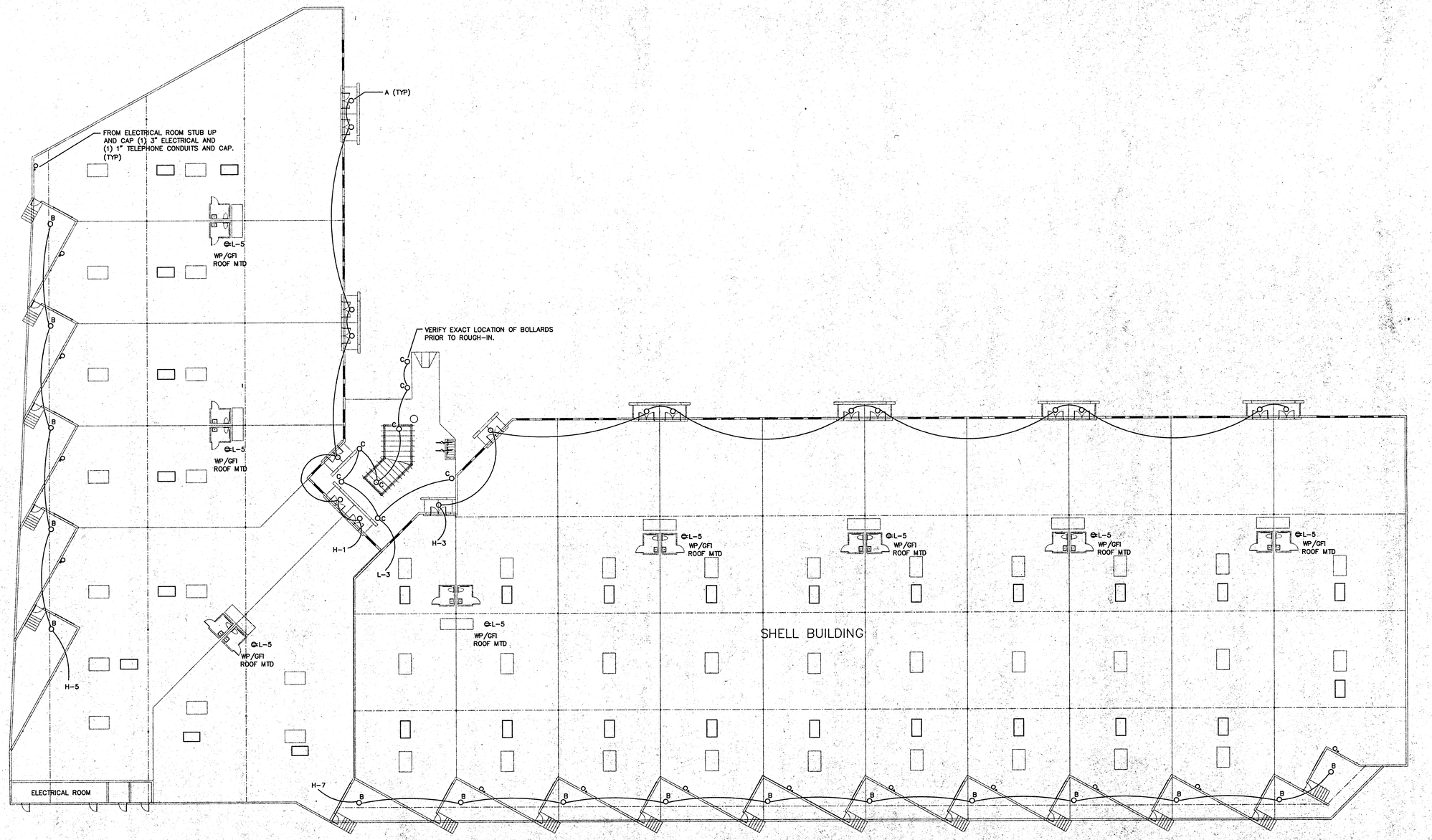
Date: 8-14-00

Drawn by: RDS

Checked by: RDS

Sheet E-1 of

STOFFER & ASSOCIATES, INC.
CONSULTING ENGINEERS
13902 Smokerise Court
Randall D. Stoffer, P.E.
Phone (407) 381-4555
Orlando, Florida 32832
PE #37367
Fax (407) 249-1520
ELECTRICAL - HVAC - PLUMBING



ELECTRICAL PLAN

SCALE: 1" = 20'-0"

STOFFER & ASSOCIATES, INC.
CONSULTING ENGINEERS
13902 Smokerise Court
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Phone (407) 381-4555
Orlando, Florida 32832
PE #37367
Fax (407) 249-1520
ELECTRICAL - HVAC - PLUMBING

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

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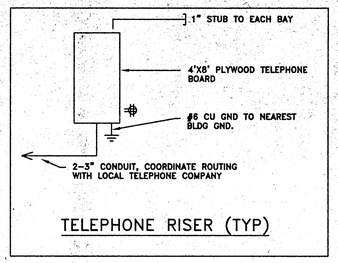
Drawn by: RDS

Checked by: RDS

Sheet E-2 of

ELECTRICAL SPECIFICATIONS

1. Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all equipment. Electrical contractor shall furnish and install all items required for a complete and acceptable working installation.
2. All work shall comply with the latest edition of the National Electrical Code and shall comply with all local rules and ordinances having jurisdiction.
3. Minimum wire size shall be #12 awg. Unless otherwise noted all conductors shall be copper with THWN or THHN insulation.
4. All material shall be new and bear the Underwrites Label (U.L.) where applicable.
5. The electrical system shall be completely and effectively grounded as required in Article 250 of the National Electrical Code.
6. The electrical, telephone, and cable television installations shall meet all requirements by the local utility companies.
7. All disconnect switches shall be rated for 100,000 A.I.C. unless otherwise noted. All fuses shall be rated for 200,000 A.I.C. and shall be current limiting.
8. All electrical switchgear shall be by Square D, ITE, or Challenger. Substitutes must be approved by the engineer.
9. Outlet boxes shall be pressed steel in dry locations. Plastic boxes may be used in lieu of the steel box where permitted by local codes. In damp or wet locations boxes shall be made from cast alloy with threaded hubs. Special enclosures are required for other classified areas.
10. Separate wire and conduit system may be substituted with factory fabricated assembly of insulated conductors in a flexible metallic enclosure where permitted by local codes.
11. Motor starters shall be manual or magnetic with overload relays in each hot leg. It shall be the electrical contractor to provide all starters where required.
12. Furnish and install disconnect switches, over current protection, and wiring for the air conditioning system as per manufacturer recommendations. Controls are to be supplied by the air conditioning contractor and connected by the electrical contractor.
13. All work shall be performed by a licensed electrical contractor in a first class workmanlike manner. The complete system shall be fully operative and accepted by the engineer or architect.
14. All work shall be coordinated with other trades to avoid interference with the progress of construction..
15. The electrical contractor shall guarantee all materials and workmanship free from defects for a period of not less than (1) one year from the date of acceptance. Correction of any defects shall be completed without additional charge and shall include replacement or repair of any other phase of the installation which may have been damaged thereby.
16. All required insurance shall be provided for protection against public liability or property damage for the duration of the work.



TELEPHONE RISER (TYP)

LIGHTING FIXTURE SCHEDULE

TYP	DESCR	LAMP	VOLT	MFG	CAT NO
A	CANOPY LT	1-MP175W MH	277	INDY	3175MP-SA
B	TRUCK WELL LT	1-MP250W MH	277	INDY	3250MP-SA
C	BOLLARD	1-100W MH/C/MED	120	HUBBLE	BMC-100H-B1
D	4' STRIP FLUOR.	2-F32W RS	120	HUBBLE	SW42R-B1
E	EMERGENCY LT	INCLUDED	120	HUBBLE	PE6 SERIES, BATT. BACKUP

CIRCUIT BREAKER PANEL - L

SERVICE: 120/208V, 3PH, 4W — BUSS: 125A W/ 50A MCB
A.I.C. RATING: 10,000 — SPACES: 24 MTG: SURFACE

CKT	CB	WIRE	COND	GND	LOAD DESCRIPTION		PH:A	PH:B	PH:C
1	20/1	#10	1/2"	#12	TELEPHONE RECEPT		500		
3	20/1	#10	1/2"	#10	BOLLARDS	*		1000	
5	20/1	#10	1/2"	#10	A/C RECEPTS				1440
7					SPACE				
9					SPACE				
11					SPACE				
13					SPACE				
15					SPACE				
17					SPACE				
19					SPACE				
21					SPACE				
23					SPACE				
2	20/1	#12	1/2"	#12	LTG		600		
4	20/1	#12	1/2"	#12	F.A.C.P.			500	
6	20/1	#12	1/2"	#12	IRRIGATION SOLENOID				500
8	20/1	#12	1/2"	#12	RECEPTS		540		
10					SPACE				
12					SPACE				
14					SPACE				
16					SPACE				
18					SPACE				
20					SPACE				
22					SPACE				
24					SPACE				
					LOAD		1640	1500	1940
					AMPS		14	13	16

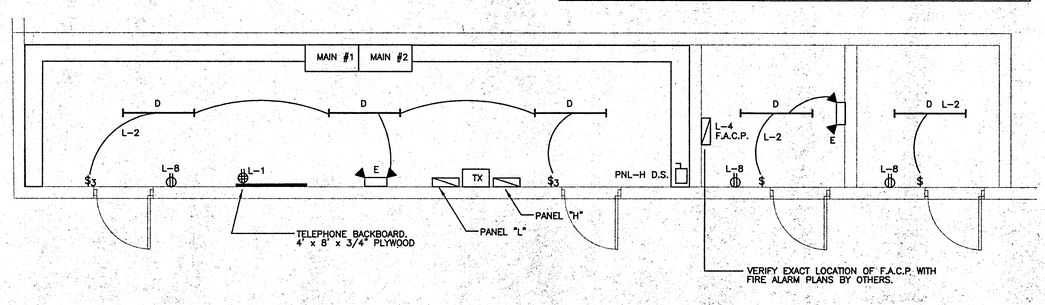
* VIA TIMECLOCK, PHOTOCELL AND CONTACTOR.

CIRCUIT BREAKER PANEL - H

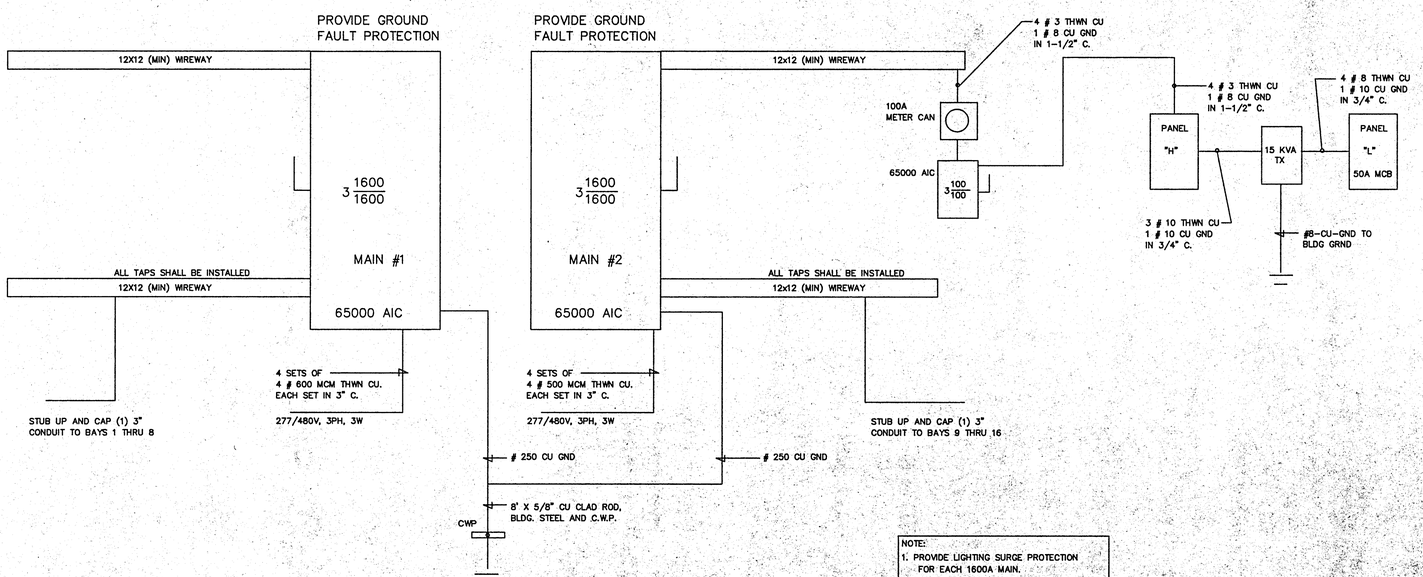
SERVICE: 277/480V, 3PH, 4W — BUSS: 100A MLO
A.I.C. RATING: 14,000 — SPACES: 30 MTG: SURFACE

CKT	CB	WIRE	COND	GND	LOAD DESCRIPTION		PH:A	PH:B	PH:C
1	20/1	#10	1/2"	#10	CANOPY LIGHTING	+	1533		
3	20/1	#10	1/2"	#10	CANOPY LIGHTING	+		2190	
5	20/1	#10	1/2"	#10	TRUCK WELL LT	+			1585
7	20/1	#8	3/4"	#10	TRUCK WELL LT	+	3343		
9	20/1	#10	3/4"	#10	EXT. BLDG LTG	+		470	
11									470
13	20/1	#10	3/4"	#10	EXT. BLDG LTG	*	470		
15	20/2	#8	1"	#10	SITE SIGN	*		1500	
17									1500
19	25/3	#10	3/4"	#10	PANEL - L		5000		
21	---	---	---	---				5000	
23	---	---	---	---					5000
25					SPACE				
27					SPACE				
29					SPACE				
2	20/2	#8	1"	#10	SITE LIGHTING	+	1252		
4	---	---	---	---	---			1252	
6	20/2	#8	1"	#10	SITE LIGHTING	*			1252
8	---	---	---	---	---		1252		
10	20/2	#8	1"	#10	SITE LIGHTING	+		1565	
12	---	---	---	---	---				1565
14	20/2	#8	1"	#10	SITE LIGHTING	*	1722		
16	---	---	---	---	---			1722	
18					SPACE				
20					SPACE				
22					SPACE				
24					SPACE				
26					SPACE				
28					SPACE				
30					SPACE				
					LOAD		14572	13699	11352
					AMPS		53	50	41

* VIA TIMECLOCK, PHOTOCELL AND CONTACTOR.
\+ VIA PHOTOCELL AND CONTACTOR.



METER ROOM ELECTRICAL LAYOUT
SCALE: 1/4" = 1'-0"



NOTE:
1. PROVIDE LIGHTING SURGE PROTECTION FOR EACH 1600A MAIN.

ELECTRICAL RISER
NTS

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ELECTRICAL - HVAC - PLUMBING

Revisions:

Project-PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: ELECTRICAL SCHEDULES AND RISER

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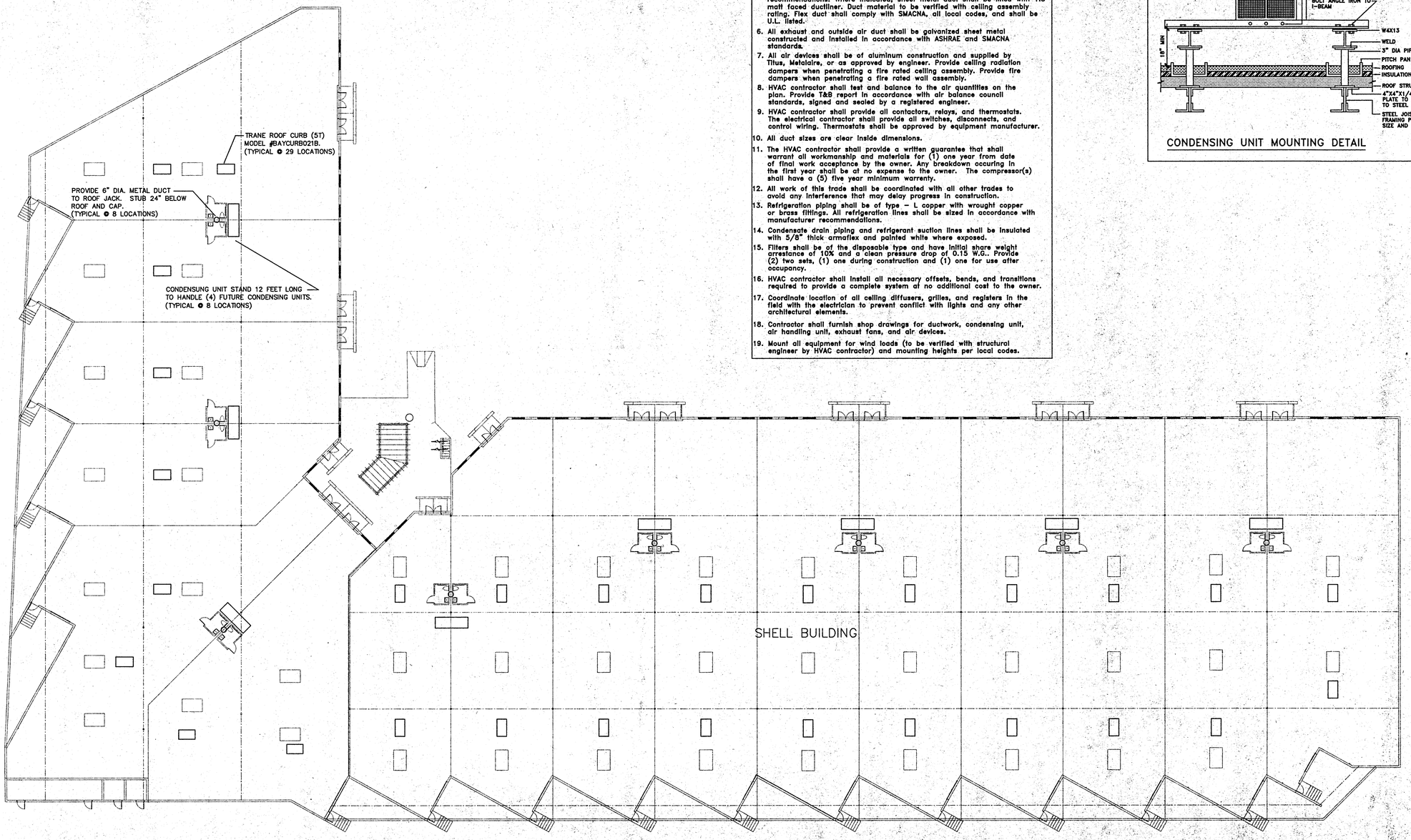
Job # 14000

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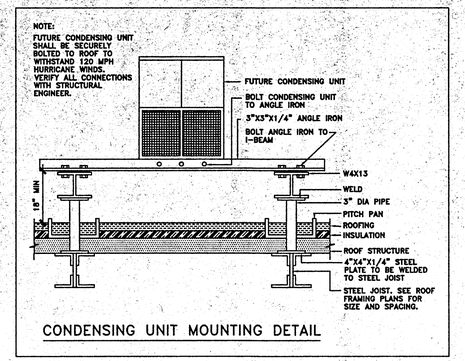


HVAC PLAN

SCALE: 1" = 20'-0"

AIR CONDITIONING SPECIFICATIONS

1. HVAC contractor shall provide all labor, materials, tools and equipment to install a complete and operating system.
2. HVAC contractor shall provide all required HVAC permits.
3. HVAC contractor shall provide equipment of the capacities shown on plans.
4. Ceiling diffusers shall comply with NFPA-90A and all applicable codes.
5. Duct board shall be fabricated from 1.5" Johnson-Manville JM Microaire SD/MF fiber glass duct board and installed per manufacturer and SMACNA recommendations. Where indicated, sheet metal duct shall be lined with 1.5" matt faced ductliner. Duct material to be verified with ceiling assembly rating. Flex duct shall comply with SMACNA, all local codes, and shall be U.L. listed.
6. All exhaust and outside air duct shall be galvanized sheet metal constructed and installed in accordance with ASHRAE and SMACNA standards.
7. All air devices shall be of aluminum construction and supplied by Titus, Metalaire, or as approved by engineer. Provide ceiling radiation dampers when penetrating a fire rated ceiling assembly. Provide fire dampers when penetrating a fire rated wall assembly.
8. HVAC contractor shall test and balance to the air quantities on the plan. Provide T&B report in accordance with air balance council standards, signed and sealed by a registered engineer.
9. HVAC contractor shall provide all contactors, relays, and thermostats. The electrical contractor shall provide all switches, disconnects, and control wiring. Thermostats shall be approved by equipment manufacturer.
10. All duct sizes are clear inside dimensions.
11. The HVAC contractor shall provide a written guarantee that shall warrant all workmanship and materials for (1) one year from date of final work acceptance by the owner. Any breakdown occuring in the first year shall be at no expense to the owner. The compressor(s) shall have a (5) five year minimum warrenty.
12. All work of this trade shall be coordinated with all other trades to avoid any interference that may delay progress in construction.
13. Refrigeration piping shall be of type - L copper with wrought copper or brass fittings. All refrigeration lines shall be sized in accordance with manufacturer recommendations.
14. Condensate drain piping and refrigerant suction lines shall be insulated with 5/8" thick armaflex and painted white where exposed.
15. Filters shall be of the disposable type and have initial share weight arrestance of 10% and a clean pressure drop of 0.15 W.G.. Provide (2) two sets, (1) one during construction and (1) one for use after occupancy.
16. HVAC contractor shall install all necessary offsets, bends, and transitions required to provide a complete system at no additional cost to the owner.
17. Coordinate location of all ceiling diffusers, grilles, and registers in the field with the electrician to prevent conflict with lights and any other architectural elements.
18. Contractor shall furnish shop drawings for ductwork, condensing unit, air handling unit, exhaust fans, and air devices.
19. Mount all equipment for wind loads (to be verified with structural engineer by HVAC contractor) and mounting heights per local codes.



CONDENSING UNIT MOUNTING DETAIL

Revisions:

Project: PROPOSED WAREHOUSES for:
S.L.H. INC.
1200 & 1180 SOUTH ROGERS CIRCLE
BOCA RATON, FLORIDA

Contents: HVAC PLAN

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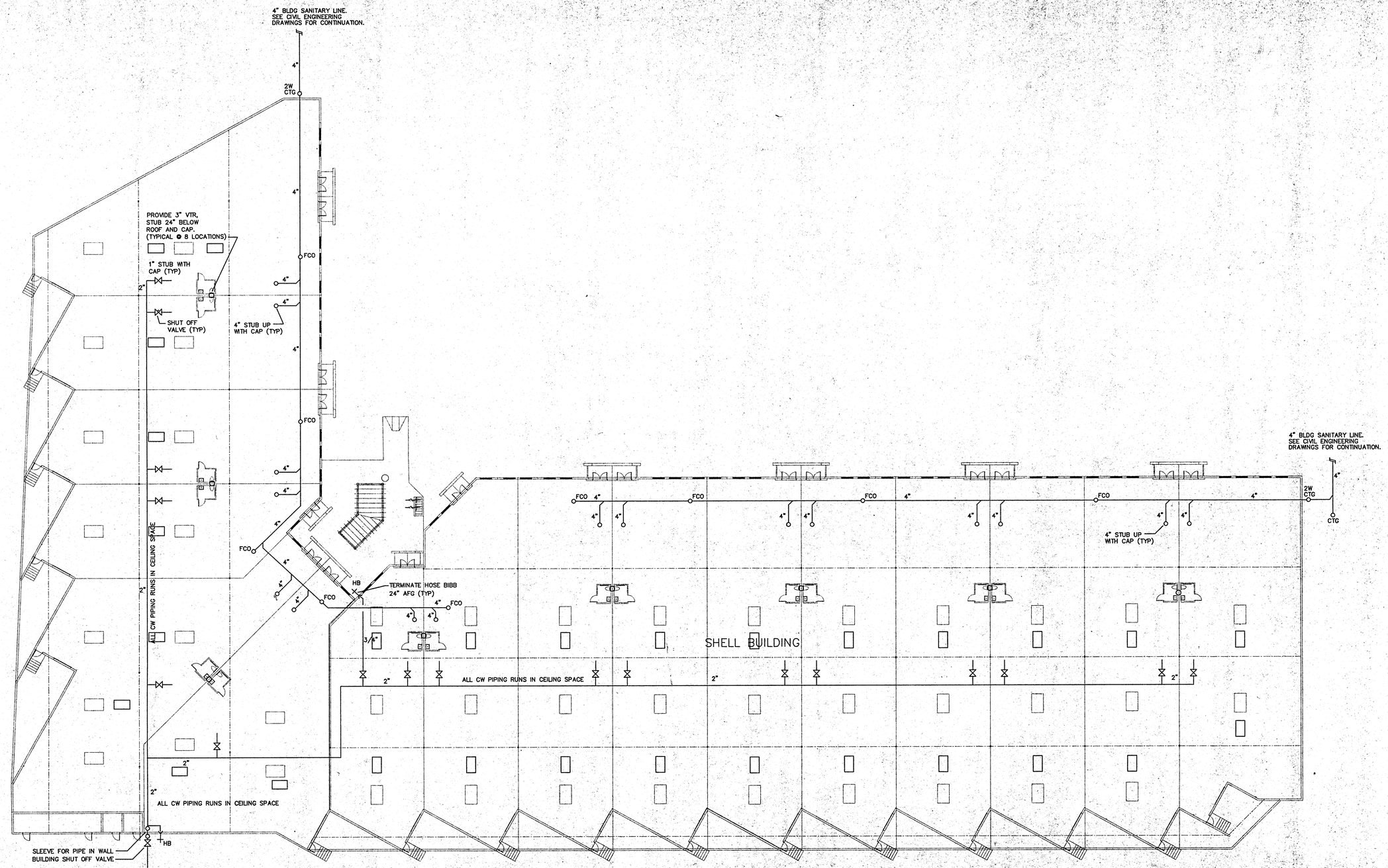
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ELECTRICAL - HVAC - PLUMBING



PLUMBING PLAN

SCALE: 1" = 20'-0"

Revisions:

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Contents: PLUMBING PLAN

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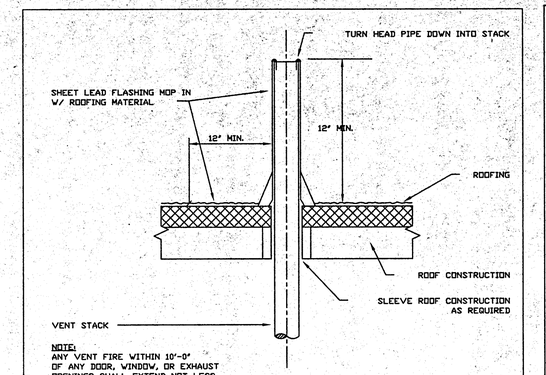
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PLUMBING SPECIFICATIONS

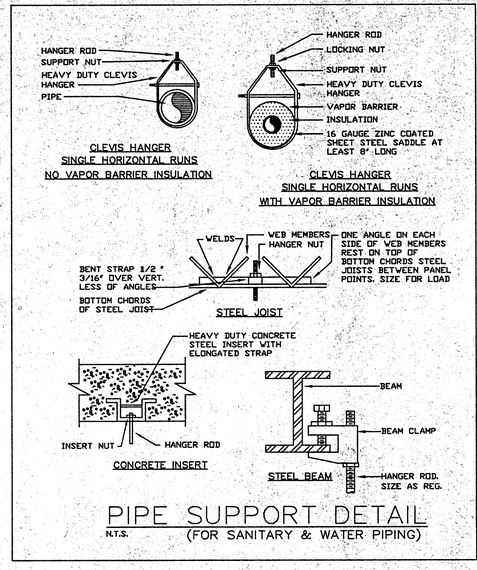
1. Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all plumbing fixtures, equipment, etc.. Plumbing contractor shall furnish and install all items required for a complete and acceptable working installation.
2. All work and materials shall comply with the latest edition of the National, State, and all local codes and Ordinances having jurisdiction.
3. The plumbing contractor shall visit the site and thoroughly familiarize himself with all existing conditions. All execution and backfill as required for this phase of construction shall be a part of this contract.
4. All material shall be new.
5. All work shall be performed by a licensed plumbing contractor in a first class workmanlike manner. The completed system shall be fully operative and accepted by engineer/architect.
6. All required insurance shall be provided for protection against public liability or property damage for the duration of the work.
7. The plumbing contractor shall secure and pay all permit fees, inspections, and tests.
8. All work shall be coordinated with other trades to avoid interference with the progress of construction.
9. The plumbing contractor shall guarantee all materials and workmanship free from defects for a period of not less than (1) one year from date of acceptance. Correction of any defects shall be completed without additional charge and shall include replacement or repair of any other phase of the installation which may have been damaged thereby.
10. Verify location, size and inverts of all existing utilities prior to start of construction. Advise architect/engineer of any discrepancies.
11. All fixtures shall be provided with readily accessible stops.
12. Water piping shall be type "L" copper for up to and including 2" and shall be type "K" for 2 1/2" and larger. All underground water piping shall be install 12" below freezing line.
13. Soil, wastes and vent piping shall be PVC #40 DMV. Waste and vent piping above slab shall be PVC, if approved by local authorities having jurisdiction, otherwise cast iron. PVC shall not be installed in A/C return air plenum or penetrate fire rated walls or floors.
14. Air conditioning condensate drain piping shall be PVC #40 or copper drain waste and bent pipe and fittings. Insulate all condensate piping except underground and electrical heat wrap where exposed to freezing conditions. Install all condensate piping for air conditioning units as required per local codes.
15. Furnish and install approved air chambers at each plumbing fixture and PDI approved shock arresters on main lines and risers.
16. Provide 1/2" cold water trap primer for all floor drains from nearest plumbing fixture.
17. Dialectic couplings, equal to EPCD, are required between all dissimilar metal piping and equipment connections.
18. Isolate copper pipe from hanger supports with isolator pad (hair felt lining) Super Strut model C 715/16. Fill all voids between pipe and wall/floor sleeves with fire rated foam. Chase Technology Corporation – CTC PR-855.
19. All fire rated floor and wall penetrations shall be properly protected from fire, smoke, and water by filling all voids between pipe and wall/floor sleeves with fire rated foam. Chase Technology Corporation – CTC PR-855 or 3M, CP-25 caulking or 303 putty.
20. Provide access panels for all concealed valves and all water hammer arresters. Access panels in rated walls must maintain the same rating and must match the finish of the wall.
21. Provide chrome plated combination covered plate and cleanout plug for all wall cleanouts, Josam 58890.
22. Interior floor cleanouts shall be Josam series 58370.
23. All hose bibbs shall be chrome plated 3/4" solid flange threaded hose with vacuum breaker, Watt #8A, mounted 26" above grade or finished floor.
24. Drains shall be as follows:

    a) Roof: Josam series 21500-26



VENT THRU ROOF DETAIL

N.T.S. VTR

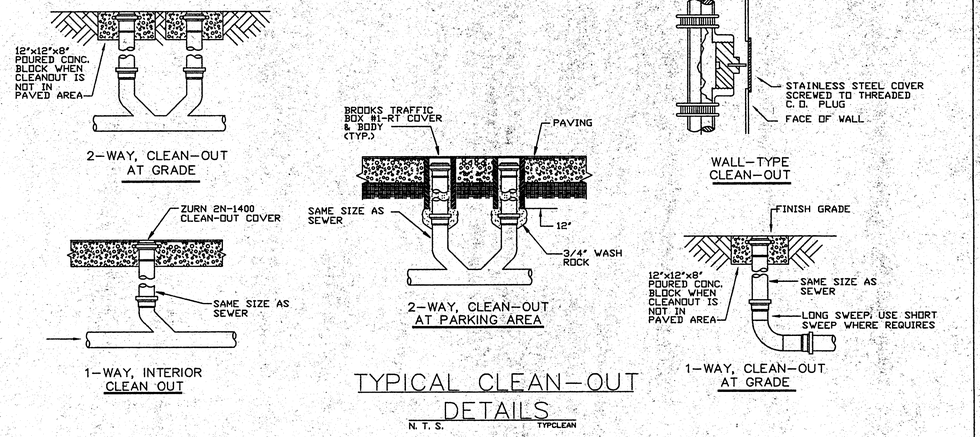


PIPE SUPPORT DETAIL

N.T.S. (FOR SANITARY & WATER PIPING)

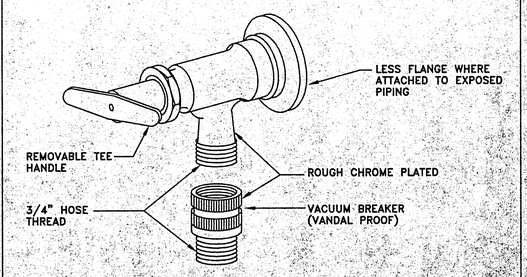
PLUMBING SYMBOLS & ABBREVATIONS

SINK	SK
WATER CLOSET	WC
URINAL	UR
LAVATORY	LAV OR L
SHOWER	SH
JANATOR SINK	JS
ELECTRIC WATER COOLER	EWC
FLOOR DRAIN	FD
AIR CHAMBER	
HOSE BIBB W/ VACUM BREAKER & SHUT-OFF VALVE	HB
HOT WATER PIPE	HW
COLD WATER PIPE	CW
HOT WATER RECIRCULAING	
CHECK VALVE	
GATE VALVE (SHUT-OFF VALVE)	SDV
STORM DRAINAGE PIPE	SD
GREASE WASTE LINE	GW
SANITARY LINE	SAN
CONDENSATE LINE	CD
VENT LINE	
DRAIN PAN	PD
ABOVE FINISH FLOOR	AFF
PRESSURE RELIEF	P&T
CLEAN OUT TO GRADE	CTG
2 WAY CLEAN OUT TO GRADE	2W CTG



TYPICAL CLEAN-OUT DETAILS

N. T. S. TYPCLEAN



HOSE BIBB DETAIL

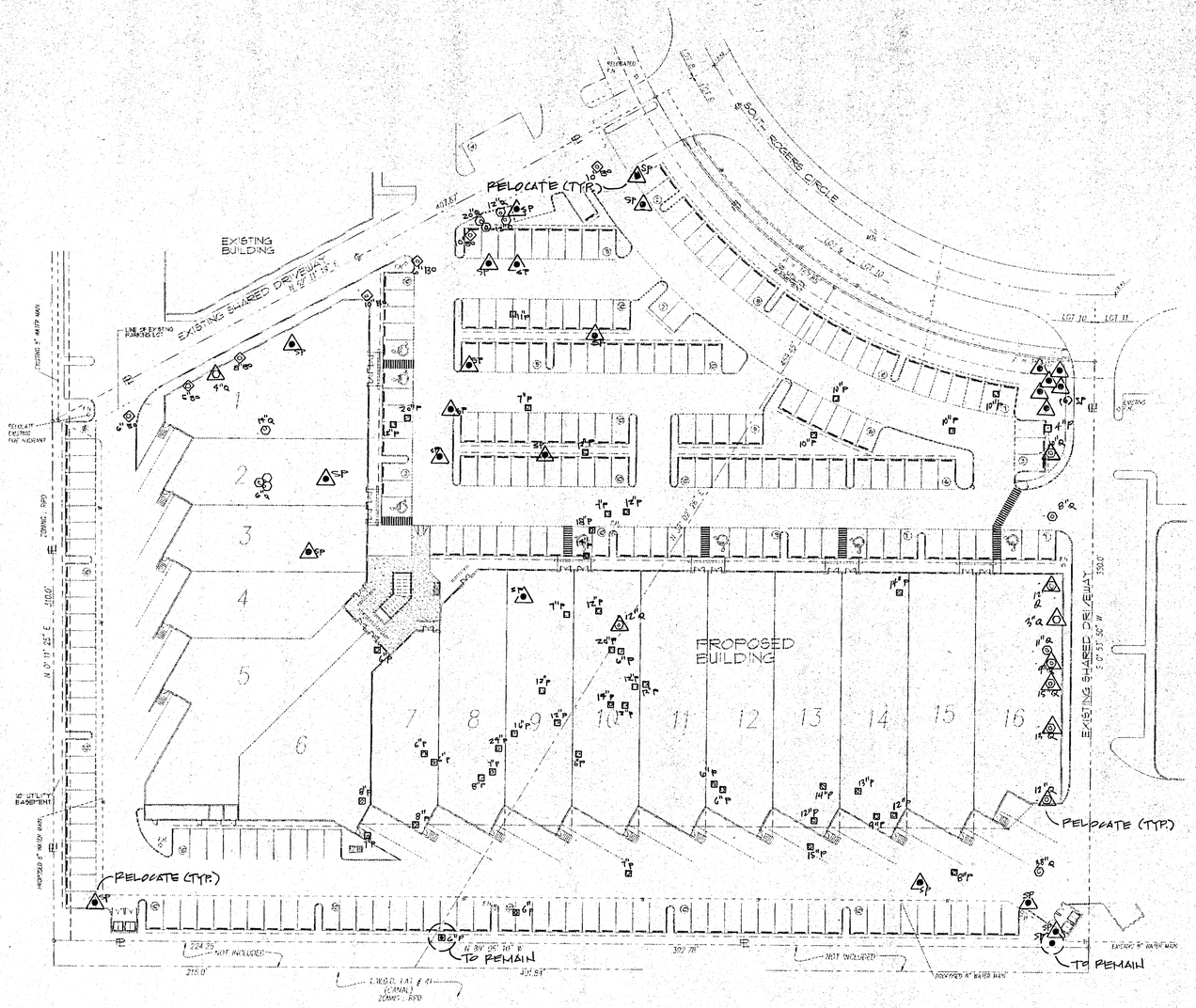
Revisions:

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1200 & 1180 SOUTH ROGERS CIRCLE
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Contents: PLUMBING DETAILS

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TREE LEGEND

- SP SABAL PALM
- P SLASH PINE
- Q LIVE OAK
- BO BLACK OLIVE

KEY

- RELOCATE
- REMAIN

* ALL OTHER TREES TO BE REMOVED

TREES AFFECTED BY CONSTRUCTION

NAME	REMAIN		RELOCATE		REMOVE	
	QTY.	CAL. IN.	QTY.	CAL. IN.	QTY.	CAL. IN.
PINE	1	6	-	-	48	532
LIVE OAK	-	-	9	85	6	100
SABAL PALM	1	-	24	-	-	-
ACACIA	-	-	-	-	ALL	-
BLACK OLIVE	-	-	-	-	ALL	-

TREE RELOCATION AND PROTECTION NOTES

1. Tree relocation areas to be selectivly cleared and set at final design grade prior to relocation activities.
2. See chart for tabulation of existing trees to be relocated/removed.
3. If possible all relocations to be done by 90' tree spade. If relocation by tree spade is not feasible, then hand digging will be required
4. Hand dug trees to be pruned and backfilled a minimum of 45 days prior to relocation.
5. Identify all underground utilities prior to tree relocation
6. Temporary automatic watering system to be in place prior to commencement
7. Relocated trees to be set at final design grade
8. All relocated trees to be watered on a daily basis so as to maintain a permanently moist root ball until tree is established
9. Code required trees that die as a result of relocation activity shall be mitigated on a caliper inch basis.
10. Relocation Area to receive 3" layer of mulch chippings from on site removals

TREE INFORMATION FROM SURVEY BY BRUCE CARTER & ASSOCIATES REVISED 3/22/00.

A. GRANT THORNBROUGH AND ASSOCIATES

LANDSCAPE ARCHITECTS AND LAND PLANNERS

132 North Swinton Avenue
Delray Beach, FL 33444
(561) 276-5050
FAX (561) 276-8777

SCALE: 1"=40'-0"

PROJECT

SLH INC.

BOCA RATON, FL

TITLE

TREE MITIGATION PLAN

PROJ. NO.

L-1DWG FILE NAME

SGH/MJP DRAWN

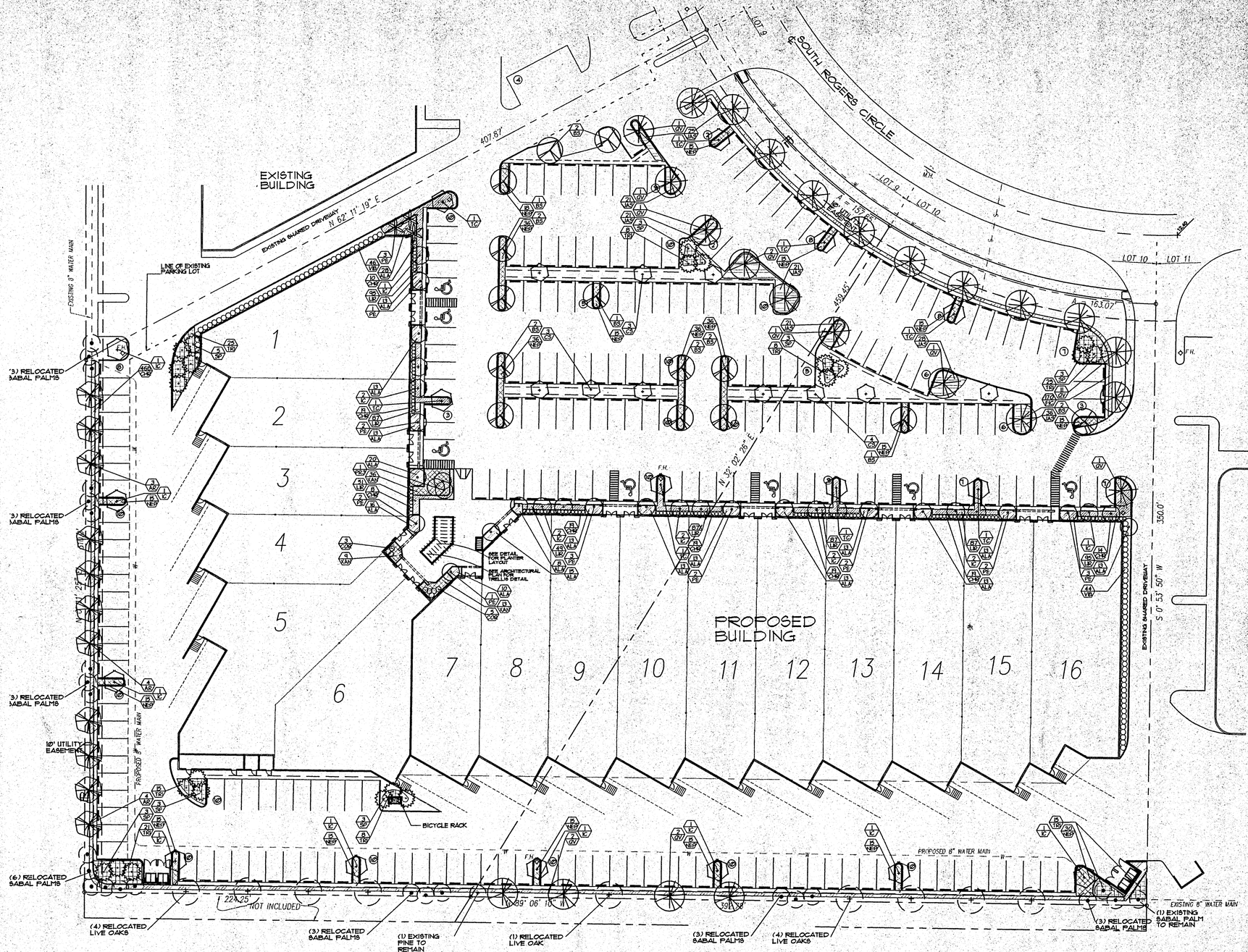
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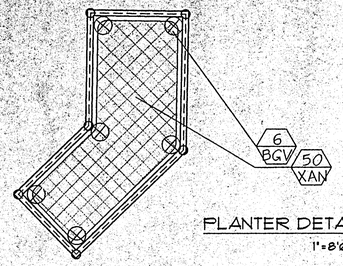
REV:

SHEET

T-1

OF





PLANTER DETAIL

1"=8'-0"

A. GRANT THORNBROUGH AND ASSOCIATES

LANDSCAPE ARCHITECTS AND LAND PLANNERS

132 North Swinton Avenue
Delray Beach, Fl. 33444
(561) 276-5050
FAX (561) 276-8777

PLANT LIST

KEY	QTY	PLANT AND SPECIFICATION
TREES AND PALMS		
AR	11	Acer rubrum (Red Maple) 12' ht., 6' spr., 5' c.t.
BS	13	Bursera simaruba (Gumbo Limbo) 12' ht., 6' spr., 5' c.t.
CS	10	Cordia sebestena (Geiger Tree) 8-10' ht., 5' spr., 5' c.t.
IC	20	Ilex x attenuata 'East Palatka' (East Palatka Holly) 10' ht., 5' spr., 5' c.t.
PE	21	Ptychosperma elegans (Alexander Palm) 16' o.a. ht.
PR3	1	Phoenix roebelenii (Pygmy Date Palm) 5' o.a. ht., triple
QV	24	Quercus virginiana (Live Oak) 12' ht., 6' spr., 5' c.t., B&B
SP	18	Sabal palmetto (Sabal Palm) 12'22' c.t. ht., heavy
TC	9	Tabebuia caraiba (Yellow Tabebuia) 12' ht., 6' spr., full
SHRUBS, GROUNDCOVERS AND ACCENTS		
ALA	227	Allamanda nerilfolia (Bush Allamanda) 20" ht., 20" spr., full, 2' o.c.
BGV	6	Bougainvillea 'Barbara Karst' Bougainvillea Vine) 7 gal., full vine, attached to trellis posts
CHR	613	Chrysobalanus icaco (Cocoplum) 24" ht., 24" spr., full 2' o.c., 3 gal.
COR	8	Cordyline terminalis 'Red Sister' (Ti Plant) 30" ht., 30" spr., full, 3 p.p.p.
FIC	110	Ficus benjamina (Ficus Hedge) 36' ht., 24" spr. min., full 2' o.c.
JAS	217	Jasminum volubile (Wax Jasmine) 12' ht., 16' spr., 2' o.c.
LIR	638	Liriope muscari 'Evergreen Giant' 12' ht., 12' spr., 14" o.c.
NEP	387	Nephrolepis exalta (Sword Fern) 14' ht., 14' spr., 2' o.c.
TRI	100	Tripsacum floridana (Dwarf Fakahatchee Grass) 18" ht., 18" spr., 3' o.c.
VIB	90	Viburnum odoratissimum 'Awabuki' 24" ht.,24' spr., 3' o.c.
XAN	108	Philodendron 'Xanadu' (Dwarf Philodendron) 18" ht., 20" spr., 2' o.c.

xx - denotes highly drought tolerant

NOTES

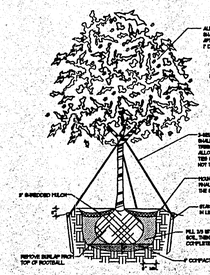
All plant material to be Florida 1 or better.
Sod to be St. Augustine 'Floratam', contractor to determine quantity.
All sod and landscape to receive 100% coverage from automatic irrigation system using approved water source.
Contractor responsible for all conditions and landscape specifications attached to this plant list. Plan and specifications shall be considered Contract Documents.
Mulch, topsoil, and fertilizer to be applied according to specifications.

SPECIFICATIONS

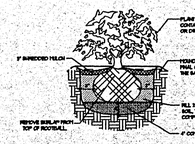
NOMENCLATURE: All plant material used shall be true to name and size in conformity with the Florida Nurserymen's Grades and Standards, and shall be Florida Grade 1 or better. Plants which do not meet specifications will not be accepted.
PLANT LISTS: Quantities, sizes, and location of plants will be determined by plan and plant lists. Size of plant shall take precedent over container size. Spacing of ground covers will be determined by plant lists. Quantities shown on plant lists are to be used as a guideline only. Contractor will be responsible for verification of actual quantities called for on plans. Discrepancies should be brought to the attention of the Landscape Architect.
SUBSTITUTIONS: No substitutions shall be accepted without consent of Landscape Architect. Any intended substitutions shall be detailed on the bid.
PLANTING SOIL: Topsoil shall be clean, sterile, and free of debris or other foreign material. Trees and palms shall be planted with a min. of 8' topsoil (50% muck, 50% sand) on sides and bottom of root ball. Rooted cuttings shall be planted in beds with a min. of 4' of topsoil worked into the top 6' of existing soil.
FERTILIZER: Milorganite fertilizer shall be applied after planting and prior to mulching at the manufacturers recommended application rates. In addition, agriform tablets (formula 20-10-5) shall also be applied at the manufacturer's recommended rates to all plants larger than 3 gal. size.
MULCH: All trees shall be mulched with 3" of shredded cypress in a 3 foot dia. circle. All shrubs and groundcover beds shall be mulched with 3" of shredded cypress in beds shown on plan or in beds 3' wide for hedges.
PLANTING PROCEDURE: All plants shall be planted at soil levels at which they were previously grown. Shrub and hedge material shall be planted 3 min. 2' away from walls or other obstructions. Material with a mature size greater than any overhangs shall be planted away from overhangs so as not to impede the natural growth habit. Sabal Palms are to be planted directly in sand. If necessary, excavate through any compacted building subgrade to undisturbed soil and backfill with planting soil.
WATERING: All plant material shall be watered in thoroughly after installation so as to remove all air pockets. B&B material shall be watered every day for a minimum one week period and thereafter so as to keep continually moist until final acceptance of the landscape installation. Contractor shall notify owner of other watering requirements after installation.
GUYING: All trees 8' or taller shall be guyed or staked to provide ample support such that the material will stay straight and true through the guarantee period. Methods used will be such that no injury is caused to plants. Guying shall be done at the option of the Contractor unless specifically requested by the Landscape Architect, however, Contractor shall still be responsible for all trees and palms remaining straight and true throughout the guarantee period.
SOD: Sod shall be dense, green, and well rooted, and free of debris, weeds, objectional grasses, disease, or infurious insects. A complete 6-6-6 fertilizer shall be spread at a rate of 5 lbs. per 1000 sq. ft. Sod shall be watered to a depth of 4" after laying. All areas to be sodded shall be raked smooth and all debris removed prior to installation.
GUARANTEE: All plant materials shall be guaranteed for 1 year after completion of project. Palms are to be guaranteed for 1 year. Guarantee applies to health, position, and size. Replacement cost will be carried by Contractor.

City of Boca Raton
Community Appearance Board
Xeriscape Point System

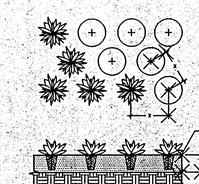
	Points Available	Quantities This Plan	Points This Plan
Irrigation System:			
Moisture Sensitive Controller	5		5
Plan submitted with low moderate and high water usage zoning indicated.	5		0
Shrubs			
25% to 50% of the total quantity of plants from the list	5		0
51% to 100% of the total quantity of plants from the list	10	61%	10
List defined as "very drought tolerant in SFWMD Xeriscape Plant Guide			
Trees			
25% to 50% of the total quantity of plants from the list	5		0
51% to 100% of the total quantity of plants from the list	10	75%	10
Extra Shade/Canopy Trees in Vehicular Use Areas			
20% more than required	5		5
40% more than required	10		0
total required X			
total provided X ex. X new +X			
Sod Areas			
Sod area less than 60% of Landscape Area	5		0
TOTAL POINTS	50		



PLANTING AND STAKING DETAIL-UP TO 6' CALIPER



PLANTING DETAIL-CONTAINER GROWN SHRUBS



PLANTING DETAIL-GROUNDCOVER BEDS

PROJECT

SLH WAREHOUSE

BOCA RATON, FL

TITLE

LANDSCAPE PLAN

PROJ. NO.

L-1DWG FILE NAME

SGH/MJP DRAWN

8/17/00 DATE

REV.

SHEET L-1 OF

ADVANCED FIRE & SAFETY SYSTEMS INC.
1001 W. CYPRESS CREEK ROAD
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(954)771-7070 (954)771-0666-fax
WWW.ADVANCEDFIRE.NET
STATE AND U.L. LICENSED
EF#0001042 U.L.# S7195-1

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This concept drawings are for information only to potential system arrangement. Contractor shall field verify all information contained on these drawings and is responsible for design and installaton of the system in accordance with the specifications.
to the best of our knowledge the drawings and specifications submitted herewith, comply with existing interpretations and previsions of the applicable N.F.P.A. codes in effect at the date shown below. No warranty express or implied is hereby given.

DATE: 08/17/00

SCALE: 1/8" = 1:0'

S.L.H. WHAREHOUSE

DELTA G CONSULTING ENGINEERS, INC.
1451 N.E. 4 AVENUE
FT. LAUD., FL. 33311
TEL. (954) 527-1112

GEORGE SANJUAN, P.E.
ELEC. REG.#46100
PROJECT NO. 99____.

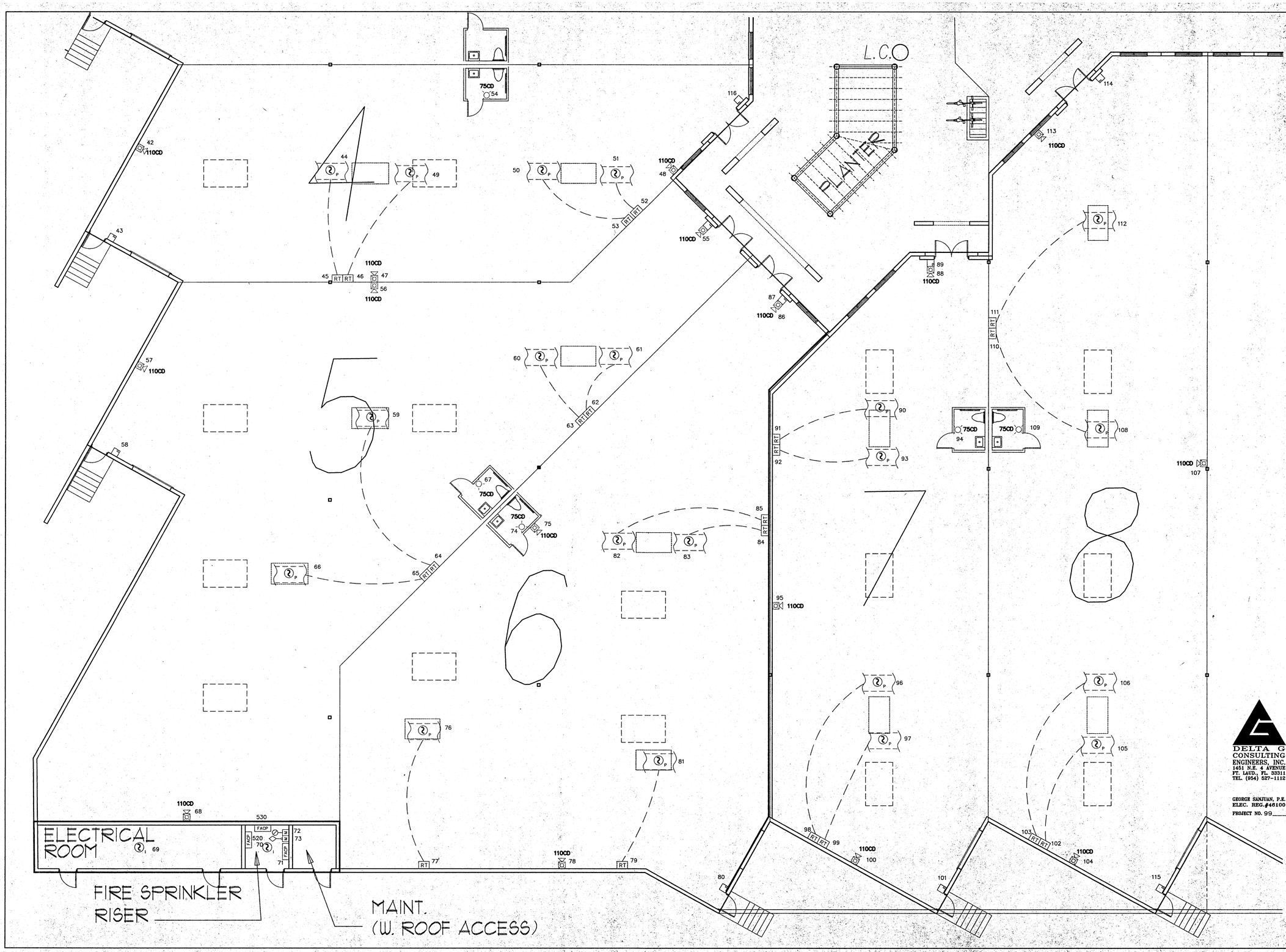
DRAWN BY: D.G. CHECKED BY: E.R.

REVISION:

REVISION:

SHEET NO. FA-1

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GEORGE SANJUAN, P.E.
ELEC. REG.#46100
PROJECT NO. 99___

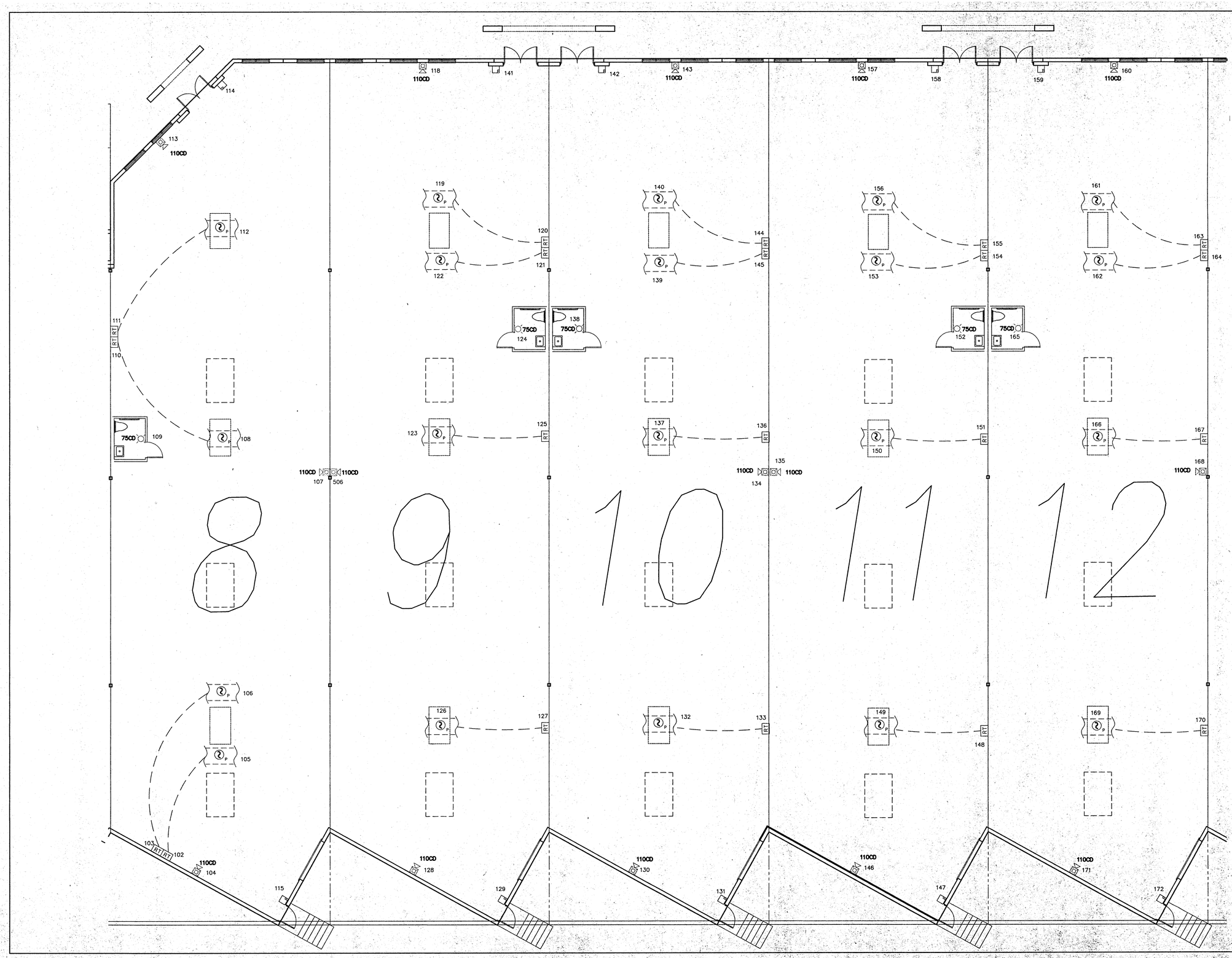
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REVISION:

REVISION:

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DATE: 08/17/00

SCALE: 1/8" = 1.0'

S.L.H. WHAREHOUSE

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REVISION:

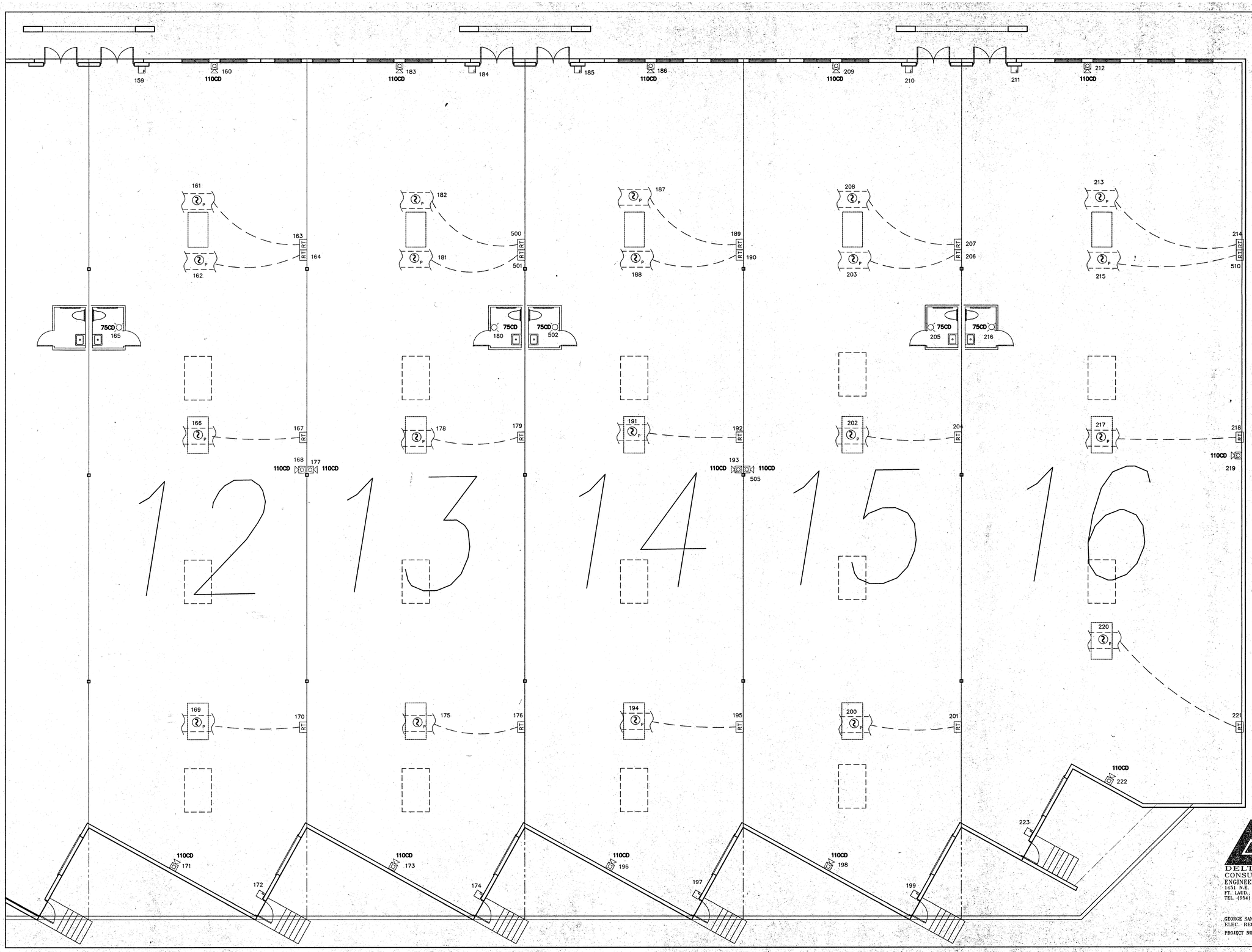
REVISION:

SHEET NO. FA-3

DELTA G
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GEORGE SANJUAN, P.E.
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PROJECT NO. 99____

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DATE: 08/17/00

SCALE: 1/8" = 1.0'

S.L.H. WHAREHOUSE

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REVISION:

REVISION:

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ELEC. REG.#46100
PROJECT NO. 99___

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TOTAL CIRCUIT AMP DRAW				CIRCUIT #5
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	10	0.183	1.83	TOTAL CIRCUIT DRAW
				TOTAL 1.83

TOTAL CIRCUIT AMP DRAW				CIRCUIT #6
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	6	0.183	1.098	TOTAL CIRCUIT DRAW
RSS-2475W-FR	3	0.133	0.399	TOTAL 1.497

TOTAL CIRCUIT AMP DRAW				CIRCUIT #7
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
RSS-2475W-FR	10	0.133	1.33	TOTAL CIRCUIT DRAW
				TOTAL 1.33

ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM (AMPS)	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT (AMPS)
1	WHEELOCK PS-12/24-8 POWER SUPPLY	0.075	X	1	=	0.075	0.175	X	1	=	0.175
2	CIRCUIT #1	0.00	X	1	=	0.00	1.83	X	1	=	1.83
3	CIRCUIT #2	0.00	X	1	=	0.00	1.497	X	1	=	1.497
4	CIRCUIT #3	0.00	X	1	=	0.00	1.33	X	1	=	1.33
5			X			X		X			X
		TOTAL SYSTEM STANDBY CURRENT (AMPS)				0.075	TOTAL SYSTEM ALARM CURRENT (AMPS)				4.832

REQUIRED OPERATING TIME OF SECONDARY POWER SOURCE FROM NFPA 72 1-5.2.5:

STANDBY: 24 HOURS ALARM: 5 MINUTES X 1/60 = .083 HOURS

REQUIRED STANDBY TIME (HOURS)		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS)		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
24	X	0.075	=	1.8	.083	X	4.832	=	0.4010

REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		REQUIRED AMPERE HOUR BATTERY		DERATING FACTOR ❶ 1.2		MINIMUM AMP-HOUR BATTERY REQUIRED
1.8	+	0.4010	=	2.2010	X	1.2	=	2.6412

FIRE ALARM BATTERY CALCULATIONS

ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM (AMPS)	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT (AMPS)
1	WHEELOCK PS-12/24-8 POWER SUPPLY	0.075	X	1	=	0.075	0.175	X	1	=	0.175
2	CIRCUIT #1	0.00	X	1	=	0.00	1.963	X	1	=	1.963
3	CIRCUIT #2	0.00	X	1	=	0.00	1.73	X	1	=	1.73
4	CIRCUIT #3	0.00	X	1	=	0.00	1.83	X	1	=	1.83
5	CIRCUIT #4	0.00	X	1	=	0.00	1.83	X	1	=	1.83
		TOTAL SYSTEM STANDBY CURRENT (AMPS)				0.075	TOTAL SYSTEM ALARM CURRENT (AMPS)				7.526

REQUIRED OPERATING TIME OF SECONDARY POWER SOURCE FROM NFPA 72 1-5.2.5:

STANDBY: 24 HOURS ALARM: 5 MINUTES X 1/60 = .083 HOURS

REQUIRED STANDBY TIME (HOURS)		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS)		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
24	X	0.075	=	1.8	.083	X	7.526	=	0.6248

REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		REQUIRED AMPERE HOUR BATTERY		DERATING FACTOR ❶ 1.2		MINIMUM AMP-HOUR BATTERY REQUIRED
1.8	+	0.6248	=	2.4248	X	1.2	=	2.9097

FIRE ALARM BATTERY CALCULATIONS

ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM (AMPS)	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT (AMPS)
1	F.C.I. 7100 SERIES FIRE ALARM PANEL	0.201	X	1	=		0.411	X	1	=	
2	F.C.I. KDU KEYBOARD DISPLAY UNIT	0.050	X	1	=		0.063	X	1	=	
3	F.C.I. ASD-IL IONIZATION SMOKE DETECTOR	0.0003	X	1	=		0.007	X	1	=	
4	F.C.I. ASD-PL PHOTO SMOKE DETECTOR	0.0003	X	1	=		0.007	X	1	=	
5	F.C.I. DH500 DUCT DETECTOR	0.0003	X	1	=		0.008	X	1	=	
6	CIRCUIT #1	0.0	X	1	=		0.133	X	1	=	
7	CIRCUIT #2	0.0	X	1	=		0.108	X	1	=	
8	F.C.I. (AOM-2) OUTPUT MODULE	0.0004	X	1	=		0.007	X	1	=	
9	F.C.I. (AMM-2) MONITOR MODULE	0.0004	X	1	=		0.007	X	1	=	
10			X		=			X		=	
		TOTAL SYSTEM STANDBY CURRENT (AMPS)				1	TOTAL SYSTEM ALARM CURRENT (AMPS)				1

REQUIRED OPERATING TIME OF SECONDARY POWER SOURCE FROM NFPA 72 1-5.2.5:

STANDBY: 24 HOURS ALARM: 5 MINUTES X 1/60 = .083 HOURS

REQUIRED STANDBY TIME (HOURS)		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS)		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
24	X	-	=	-	.083	X	-	=	-

REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		REQUIRED AMPERE HOUR BATTERY		DERATING FACTOR ❶ 1.2		MINIMUM AMP-HOUR BATTERY REQUIRED
-	+	-	=	-	X	1.2	=	-

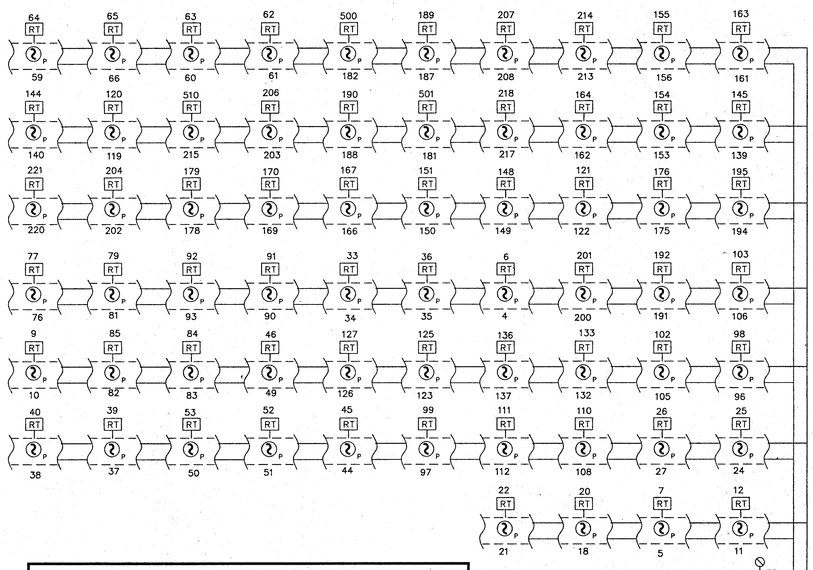
FIRE ALARM BATTERY CALCULATIONS
FACP

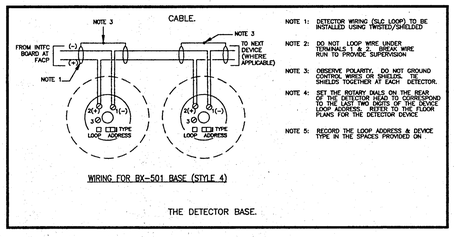
TOTAL CIRCUIT AMP DRAW				CIRCUIT #1
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	10	0.183	1.83	TOTAL CIRCUIT DRAW
RSS-2475W-FR	1	0.133	0.133	TOTAL 1.963

TOTAL CIRCUIT AMP DRAW				CIRCUIT #2
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	8	0.183	1.464	TOTAL CIRCUIT DRAW
RSS-2475W-FR	2	0.133	0.266	TOTAL 1.73

TOTAL CIRCUIT AMP DRAW				CIRCUIT #3
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	10	0.183	1.83	TOTAL CIRCUIT DRAW
				TOTAL 1.83

TOTAL CIRCUIT AMP DRAW				CIRCUIT #4
DEVICE	DEVICE COUNT	DEVICE AMP DRAW	TOTAL DEVICE AMP DRAW	MAX AMP 2.0
AS-24110W-FR	10	0.183	1.83	TOTAL CIRCUIT DRAW
				TOTAL 1.83

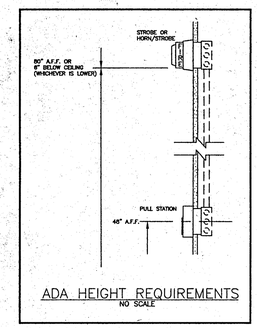




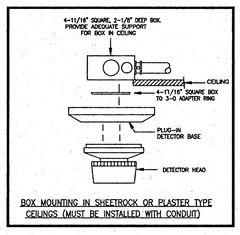
WIRING FOR BX-501 BASE (STYLE 4)

THE DETECTOR BASE.

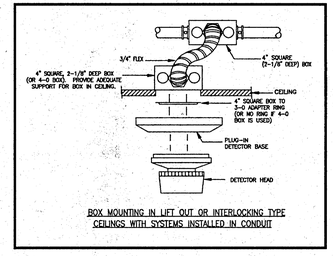
WIRE LEGEND			
SYMBOL	WIRE TYPE AND DESCRIPTION	LABELED COLOR	WIRE COLOR
A	18-2 FPL WIRE FOR HORNS AND STROBES	YELLOW	YELLOW
B	18-2 WIRE FPL FOR DATA COMMUNICATION	RED	RED
C	18-2 FPL 24V POWER	BLACK	BLACK



ADA HEIGHT REQUIREMENTS
NO SCALE



BOX MOUNTING IN SHEETROCK OR PLASTER TYPE CEILINGS (MUST BE INSTALLED WITH CONDUIT)



BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE CEILINGS WITH SYSTEMS INSTALLED IN CONDUIT

FIRE ALARM LEGEND

- F.C.I. MS SERIES PULL STATION
- F.C.I. ASD-PL PHOTO ELECTRIC SMOKE SENSOR
- F.C.I. ASD-IL IONIZATION SMOKE SENSOR
- F.C.I. (DH500) DUCT HOUSING
- F.C.I. ATD ANALOG THERMAL SENSOR (HEAT DETECTOR)
- FACP F.C.I. 7100 SERIES FIRE ALARM CONTROL PANEL
- FAAM F.C.I. KDU KEYBOARD DISPLAY UNIT.
- PS-24 WHEELOCK PS-12/24-8 POWER SUPPLY
- WHEELOCK MT-24-WM-VFR WEATHER PROOF HORN/STROBE
- WHEELOCK AS SERIES HORN/STROBE
- WHEELOCK RSS SERIES STROBE
- WHEELOCK SERIES MIZ MINI HORNS
- TAMPER SWITCH
- FLOW SWITCH
- FM SERIES ELECTROMAGNETIC DOOR-HORDER/RELEASE
- RTS F.C.I. RTS451 REMOTE TEST STATION MTD. @ 48"A.F.F.
- AOM F.C.I. (AOM-2) OUTPUT MODULE
- AMM F.C.I. (AMM-2) MONITOR MODULE

FIRE ALARM WIRE SCHEDULE
FIRE ALARM SYSTEM SHALL BE POWER LIMITED

18-2 FPL INITIATING	ADVANCED FIRE & SAFETY SYSTEMS INC.
16-2 FPL INDICATING	(954)771-0666-fax
(2) #14 THHN POWER	WWW.ADVANCEDFIRE.NET
	STATE AND U.L. LICENSED.
	EF#0001042 U.L.# S7795-1

ADVANCED FIRE & SAFETY SYSTEMS INC.
1001 W. CYPRESS CREEK ROAD
SUITE # 116
FT LAUDERDALE, FLORIDA 33309
(954)771-7070 (954)771-0666-fax
WWW.ADVANCEDFIRE.NET
STATE AND U.L. LICENSED.
EF#0001042 U.L.# S7795-1

If any document prepared by Advanced Fire & Safety Systems Inc. are altered in any manner by owner, its agents or by any third party if construction is not in accordance with unaltered documents prepared by Advanced Fire & Safety Systems Inc. then it is understood that Advanced Fire and Safety Systems Inc. has no liability in whole or in part, related to the project and that the owner and its agents indemnify and holds harmless Advanced Fire & Safety Systems Inc. for any and all acts r[illegible] project.
This concept drawings are for information only to potential system arrangement. Contractor shall field verify all information contained on these drawings and is responsible for design and installation of the system in accordance with the specifications.
to the best of our knowledge the drawings and specifications submitted herewith, comply with existing interpretations and previsions of the applicable N.F.P.A. codes in effect at date shown below. No warranty expressed or implied is hereby given.

DATE: 08/17/00

SCALE: N.T.S.

S.L.H. WHAREHOUSE

DRAWN BY: D.G.

CHECKED BY: E.R.

REVISION:

REVISION:

SHEET NO. FA-5

DELTA G CONSULTING ENGINEERS, INC.
1451 N.E. 4 AVENUE
FT. LAUD., FL. 33311
TEL. (954) 527-1112

GEORGE SANJUAN, P.E.
ELEC. REG.#46100
PROJECT NO. 99___

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