OCALA

Find your place

DISCOVERY CENTER ELEVATOR and RENOVATIONS ITB/REC# 15-022

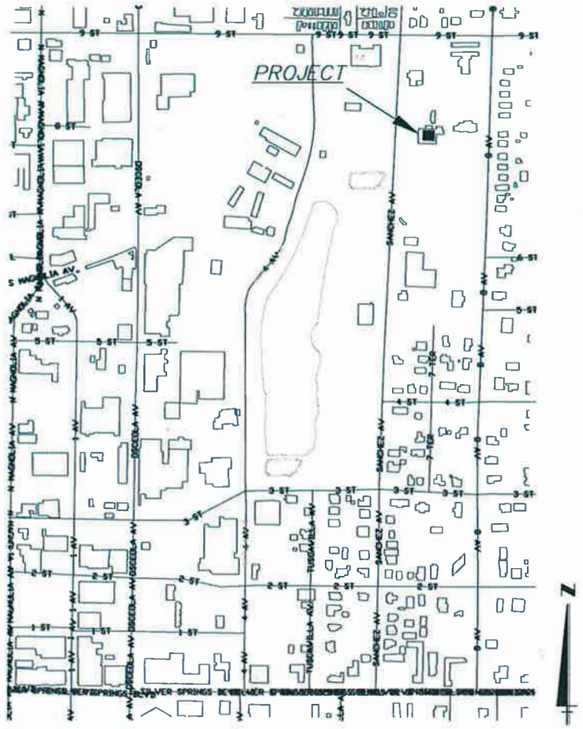
CITY OF OCALA, MARION COUNTY, FLORIDA

INDEX OF SHEETS

GENERAL NOTES

1. CONTRACTOR SHALL NOT COMPROMISE ACCESS TO BUSINESSES DURING THE CONSTRUCTION PERIOD.
2. ALL EXISTING UNDER GROUND UTILITIES AND FACILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. ANY REQUIRED ADJUSTMENT ON TELEPHONE & GAS LINES DURING CONSTRUCTION SHALL BE DONE BY OTHERS.
4. COORDINATION TO AVOID POSSIBLE CONFLICTS BETWEEN WATER MAINS, PRESSURE MAINS, GRAVITY SEWERS AND OTHER CONSTRUCTION UNDER THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL DISPOSE OF EXCAVATED MATERIALS UNSUITABLE FOR PLANTING OFF SITE.
6. CONTRACTOR SHALL BE REQUIRED TO NOTIFY UTILITY CONTACTS PRIOR TO CONSTRUCTION TO ALLOW UTILITY RELOCATIONS AND INSTALLATION OF FACILITIES, SUCH AS CONDUIT CROSSING FOR FUTURE USE, THESE SHALL BE ACOMPLISHED BY THE RESPECTIVE UTILITY OWNER.
7. PROVIDE A MINIMUM OF 6" CLEARANCE, OR AS NOTED BETWEEN ALL UTILITIES. NO SPECIAL PAYMENT ALLOWED.
8. VERTICAL DATUM IS BASED ON NAVD.1988
9. EROSION AND SEDIMENTATION CONTROL a. CONTRACTOR SHALL UTILIZE EROSION/SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES AS NECESSARY DURING CONSTRUCTION TO RETAIN SEDIMENT ONSITE. b. EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE PLACED PRIOR TO SITE WORK. c. AREAS RECEIVING RUNOFF FROM CONSTRUCTION SITE SHALL BE PROTECTED WITH A TYPE III SILT FENCE PER FDOT INDEX NUMBER 102. d. ALL EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING CONDITION THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL CHECK AND REPAIR, IF NECESSARY, THE EROSION/SEDIMENTATION CONTROL MEASURES AT THE END OF EACH WORKING DAY. e. PERMANENT VEGETATION SHALL BE PLACED AS EARLY AS POSSIBLE.

NO SITE WORK SHALL BE CONDUCTED PRIOR TO OBTAINING A "SITE PERMIT" FROM THE CITY. CALL CITY GROWTH MANAGEMENT DEPT. @ 352-629-8209 TO SCHEDULE THE PRE-CONSTRUCTION MEETING WHICH MUST BE HELD BEFORE INSTALLING ANY EROSION CONTROLS OR OBTAINING ANY SITE PERMITS.



LOCATION MAP

SITE PLAN PREPARED BY:

CITY OF OCALA
RECREATION & PARKS DEPARTMENT
828 NE 8TH AVE.
OCALA, FLORIDA 34470

BUILDING PLANS PREPARED BY:

ARCHITECTURE STUDIO, INC.
ROLANDO SOSA
1823 E. FORT KING ST., SUITE 102
OCALA, FLORIDA 34471

GENERAL STATEMENT

THE CHARACTER AND INTENDED USE OF THIS PROJECT SHALL BE RENOVATION OF THE DISCOVERY CENTER BY ADDITION OF AN ELEVATOR, EXTERIOR & INTERIOR RENOVATIONS, UPSTAIRS LIGHTING REPLACEMENTS & EXTERIOR METAL STAIRWAY RENOVATIONS TOGETHER WITH ALL REQUIRED IMPROVEMENTS AS SHOWN HEREON.

UTILITY COMPANIES

UTILITY COMPANY	PHONE NUMBER	EMERGENCY
EMBARQ	(352) 368-8817	(352) 622-0111
CITY OF OCALA ELECTRIC	(352) 351-6620	611
CITY OF OCALA WATER/SEWER	(352) 629-8521	(352) 351-6775
COX COMMUNICATIONS	(352) 873-5629	(352) 854-0055
TECO GAS	(352) 622-0112	1-817-832-8747
AT&T	(352) 237-2383	
MCI WORLDCOM	(352) 258-8711	

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www.callsunshine.com

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION

90% PLANS
NOT FOR CONSTRUCTION
DATE: 5/1/15

NO.	DATE	REVISIONS	BY
1			
2			
3			
4			

DRAWN BY: ECH
DESIGNED BY: ECH
HORIZ.: NOTED
VERT.: NONE

PROJ.#: DC_ELEVATOR_SITEPLAN
F.B.#: F.B. #
FILE No.: FILE#
LAST DRAWN: 4/15/15

PREPARED BY THE CITY OF OCALA RECREATION & PARKS DEPT.

DISCOVERY_CENTER_ELEVATOR

COVER_SHEET

SHT 1 OF 21


NORTH
SCALE 1"=10'
SHT 2 OF 21
TUSCAWILLA DISCOVERY CENTER
NE SANCHEZ AV
EXISTING_CONDITIONS
DISCOVERY_CENTER_ELEVATOR
PREPARED BY THE CITY OF OCALA RECREATION & PARKS DEPT.
PROJ.# DC_ELEVATOR_SITEPLAN
F.B.# F.B. #
FILE No.: FILE #
LAST DRAWN: 4/15/15
DRAWN BY: ECH
DESIGNED BY: ECH
HORIZ.: 1"=10
VERT.: NONE
NO. DATE REVISIONS BY

STAIRWAY RENOVATIONS

TUSCAWILLA DISCOVERY CENTER

EXISTING PARKING

SEE ARCHITECTURE PLANS FOR RENOVATIONS SHEETS A000 THRU MP-2

PROJECT AREA

ELEVATOR ADDITION

SCREEN BLOCK WALL

EXISTING POWER POLE

USE EXISTING PARKING AREA AS ACCESS / STAGING AREA

INSTALL SILT FENCE

INSTALL PERIMETER FENCE, AREA MAY ADJUST

INSTALL TREE PROTECTION FENCE

CITY ELECTRIC UTILITY TO RELOCATE OVERHEAD POWER TO BUILDING TO UNDERGROUND UNDER DRIVEWAY, CONTRACTOR TO PROVIDE CONDUITS AND EQUIPMENT PER PLANS. CABLE TV WILL RELOCATE OVERHEAD CABLE TO BUILDING, SEE SITE ELECTRIC PLAN SHEET

NORTH

SCALE 1"=10'

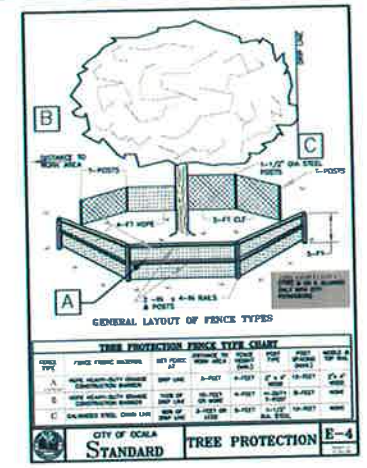
10 5 0 10 20 40

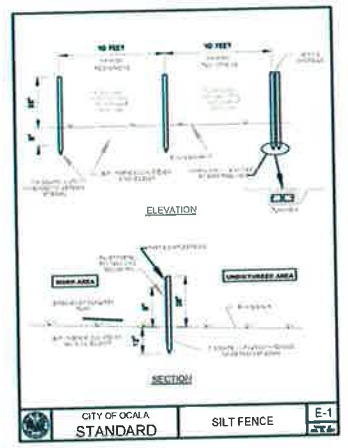
KEY

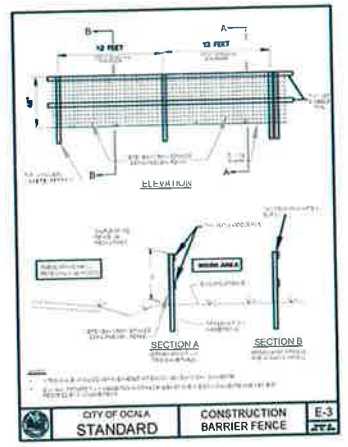
SILT FENCE

TREE PROTECTION

CONSTRUCTION BARRIER FENCE







NOTES

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2. CONTRACTOR SHALL PERIODICALLY SWEEP EXISTING ON-SITE PAVED SURFACES AS WELL AS ABUTTING STREETS, TO KEEP THOSE SURFACES IN SUBSTANTIALLY SEDIMENT-FREE CONDITION. SWEEPING SHALL BE DONE ON A PERIODIC, AS NEEDED BASIS THROUGHOUT THE WORKWEEK INCLUDING AFTER EVERY RAIN EVENT AND EVERY FRIDAY AFTERNOON PRIOR TO CEASING WORK FOR THE WEEK.

3. CONTRACTOR WILL MAINTAIN STORM SYSTEM PROTECTION UNTIL FINAL ACCEPTANCE OF PROJECT.

4. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS CONCRETE TRUCK WASH-OUT, CHEMICALS, LITTER AND SANITARY WASTE, ARE ALL PROPERLY CONTROLLED WHILE ON SITE, TRANSPORTED AND DISPOSED OF (OFF SITE) IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO WASTE MATERIALS OF ANY KIND ARE PERMITTED TO BE BURIED ON SITE OR DISCHARGED TO SURFACE WATERS OF THE STATE OR TO THE CITY'S STORM WATER SYSTEM.

5. ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT WHICH ARE NOT OTHERWISE PAVED SHALL BE IMMEDIATELY SODDED FOLLOWING FINAL GRADING. ALLOW FOR THICKNESS OF SOD WITH A 2-INCH UNDERCUT. SOD SHALL BE ARGENTINE BAHIA, AND SHALL BE REGULARLY WATERED BY CONTRACTOR THROUGHOUT CONSTRUCTION DURATION.

NO.	DATE	REVISIONS	BY
7			
6			
5			
4			
3			
2			
1			

DRAWN BY: ECH
DESIGNED BY: ECH
HORIZ.: 1"=10
VERT.: NONE

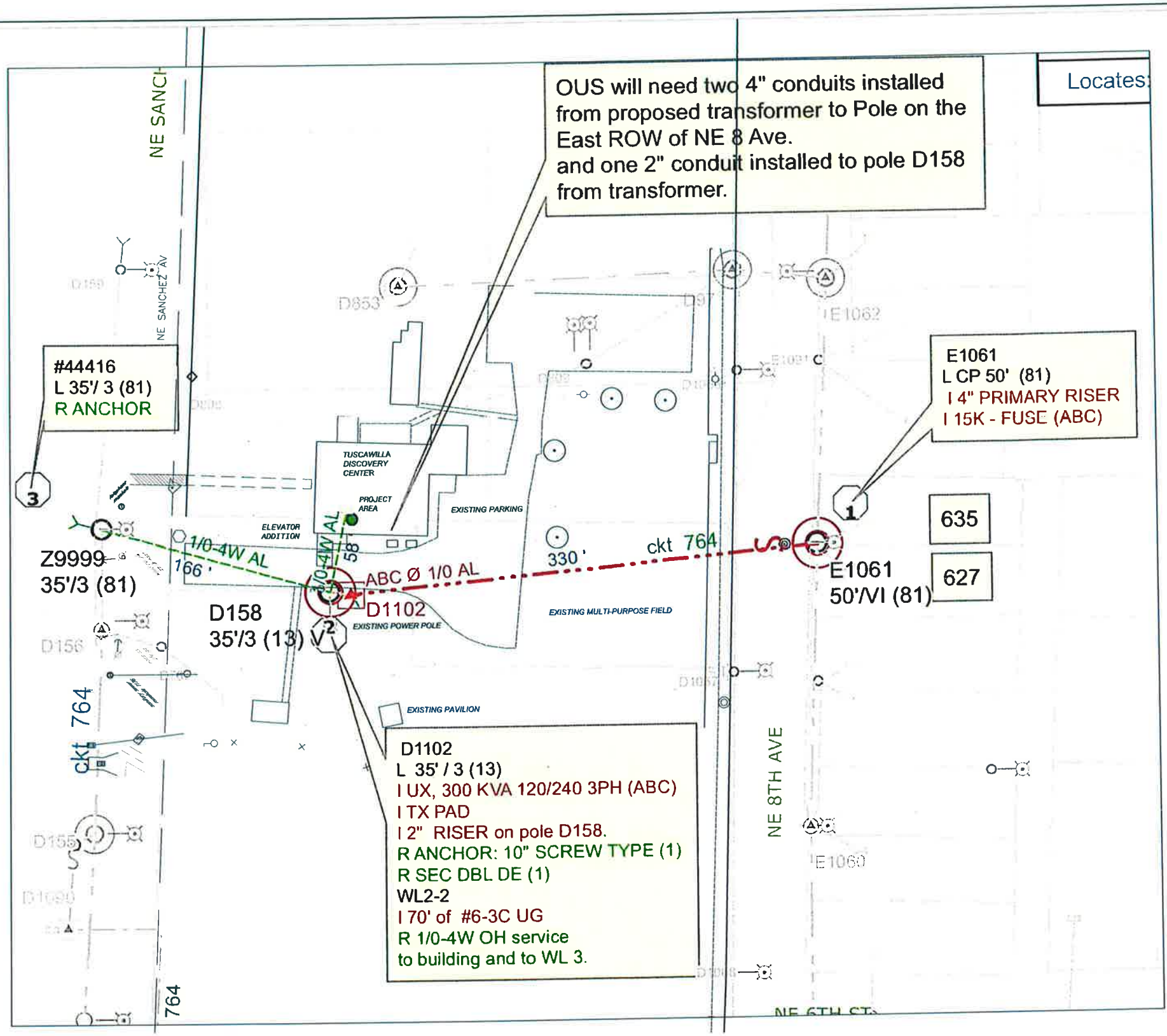
PROJ.#: DC_ELEVATOR_SITEPLAN
F.B.#: F.B. #
FILE No.: FILE#
LAST DRAWN: 4/15/15

PREPARED BY THE
CITY OF OCALA
RECREATION & PARKS DEPT

DISCOVERY_CENTER_ELEVATOR

SITE_RENOVATIONS_ENVIRONMENTAL

SHT 3
OF
21



SITE ELECTRIC NOTES:

OH service will be removed from NE Sanchez to the building. Yardlight pole to remain is needed. new UG Primary will be installed from NE 8 Ave as shown on mark-ups.

Contractor will responsible for all UG conduit. contractor will need to install two 4" SCH 40 PVC conduits and one 2" conduit from the transformer to pole D158. OUS will build the riser.

Load Data Sheet is required.

Contractor will be responsible for building the transformer pad.

Standard Electrical Notes:

1. Customer must submit the Ocala Utility Services (OUS) Commercial Load Data Sheet and the OUS General Information Sheet to the Growth Management Department prior to any site permits being issued. Data sheets must be approved by OUS Engineering prior to any site permits being issued. Material lead times may cause a delay in obtaining service, if load data is not submitted as soon as possible.
2. Customer must contact the Ocala Utility Services Engineering Division at (352) 351-6620 at least six (6) weeks prior to the start of construction to discuss permanent service requirements, temporary construction power, transformer location, and meter location. Reference OUS SP____-_____.
3. Trees cannot be planted around, over, or under any existing or proposed power lines. This includes any lines designed after final site plan approval.
4. For all underground electric power lines on private property, a ten (10) foot electric distribution easement will be required. For overhead construction, a twenty (20) foot easement will be required. Also, for any overhead power lines, both existing and proposed, a ten (10) foot tree-trimming easement will be required (Sec.70-585 and Sec. 70-602).
5. Underground electrical service will be at the customer's expense (Sec. 70-584 and Sec. 70-603).
6. All electric utility facilities shall be included on the site plan prior to site plan approval (Include yellow and black facility I.D. number).
7. Meter location will be designated by Ocala Utility Services (Sec. 70-587). However, desired location may be noted on site plan.
8. The requested service voltage is _____ volt, _____ phase. Requested service voltage is not guaranteed to be supplied, however, OUS will try to accommodate the request when possible (Sec. 70-585 and Sec. 70-587).
9. Streetlights, if required, will be added at a one-time charge to the customer. Estimated cost will be provided as part of the actual electrical service design (Sec. 70-621).
10. Construction for temporary service location to be determined by Ocala Utility Services.
11. The final approved revised site plan is to be emailed to rratella@ocalafl.org using the above mention OUS site plan reference number.
12. Additional requirements are contained in Chapter 70, Article VI and Article VII of the Ocala Code of Ordinances.

See sheet for UG Transformer location.

FIRE DEPARTMENT NOTES:

1. Elevator shall be installed in accordance with the requirements of ASME A17.1/CSA B44, Safety Code for Elevators and Escalators.
2. Provide portable fire extinguisher in Elevator Machine Room.
3. Provide emergency lighting in Elevator Machine Room.
4. Provide emergency lighting and exit signs in the New Lobby, if needed to meet the requirements of the Florida Fire Prevention Code,
5. Submit plans for modification to fire alarm system.

NO	DATE	REVISIONS	BY
7			
6			
5			
4			
3			
2			
1			

DRAWN BY:	ECH
DESIGNED BY:	ECH
HORIZ.:	1"=10
VERT.:	NONE

PROJ.#	DC_ELEVATOR_SITEPLAN
F.B.#	F.B. #
FILE No.:	FILE#
LAST DRAWN:	4/15/15

PREPARED BY THE
CITY OF OCALA
RECREATION & PARKS DEPT.

DISCOVERY_CENTER_ELEVATOR

EXTERIOR_ELECTRICAL

SHT 4 OF 21

AN ELEVATOR ADDITION FOR:

THE DISCOVERY CENTER

701 NORTHEAST SANCHEZ AVENUE
OCALA, FLORIDA, 34470

BUILDING DATA:

THE SCOPE OF WORK FOR THIS PROJECT IS AS FOLLOWS:

- ADDITION OF AN ELEVATOR TOWER WITH MECHANICAL ROOM AND DOCK TO THE EXTERIOR OF THE BUILDING ON THE SOUTH WEST CORNER AND THE REMODELING OF THE OFFICE SPACE IMMEDIATELY WHERE THE ELEVATOR IS TO BE ADDED.
- A NEW CMU SCREEN WALL IN FRONT OF EXISTING HVAC UNITS ON THE SOUTH SIDE
- REPAIR OF EXISTING STEEL EXIT STAIRS AND LANDING ON THE NORTH WEST OF BUILDING
- EXTERIOR PAINTING OF THE BUILDING
- LIGHT REPLACEMENT ON THE FIRST FLOOR
- LIGHT REPLACEMENT ON THE SECOND FLOOR

WIND LOADING CRITERIA:

BASIC WINDSPEED: (130) MPH (WWW.WINDSPEED.ATCOUNCIL.ORG/)
WIND IMPORTANCE FACTOR : (1) (WWW.WINDSPEED.ATCOUNCIL.ORG/)
WIND EXPOSURE: (B) (WWW.WINDSPEED.ATCOUNCIL.ORG/)

APPLICABLE INTERNAL PRESSURE COEFFICIENT: 0.18 FOR ENCLOSED STRUCTURES AND 0.55 FOR COVERED ENTRIES.

A = 6'-5"" (MIN. USING 40% OF EAVE HT.)

COMPONENT & CLADDING DESIGN PRESSURE LOADS: SUPPLIERS / MANUFACTURERS OF ALL CLADDING AND COMPONENTS (INCLUDING, BUT NOT LIMITED TO: SIDING, ROOFING, DOORS, WINDOWS, AWNINGS, ETC.) WILL SUBMIT REPORTS & DATA SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA DOCUMENTING COMPLIANCE WITH THIS PROVISION OF THE FLORIDA BUILDING CODE; 2007 EDITION WITH 2009 SUPPLEMENTS.

NOTE: SEE ROOF PLAN FOR ADDITIONAL INFORMATION.

COMPONENT & CLADDING DESIGN WIND LOADS:

FROM TABLE 1606.2B OF THE FLORIDA BUILDING CODE:

ROOF ANGLE > 10 - 30 DEGREES

ZONE	COMPONENT AREA	110 MPH PRESSURE IN PSF POSITIVE	NEGATIVE
1	10.0	12.5	-19.9
1	20.0	11.4	-19.4
1	50.0	10.0	-18.6
1	100.0	10.0	-18.1
2	10.0	12.5	-42.1
2	20.0	11.4	-38.2
2	50.0	10.0	-33.0
2	100.0	10.0	-29.1
3	10.0	12.5	-42.1
3	20.0	11.4	-38.2
3	50.0	10.0	-33.0
3	100.0	10.0	-29.1

WALLS

ZONE	COMPONENT AREA	110 MPH PRESSURE IN PSF POSITIVE	NEGATIVE
4	10.0	21.8	-23.6
4	20.0	21.8	-22.6
4	50.0	19.5	-21.3
4	100.0	18.5	-20.4
5	10.0	21.8	-29.1
5	20.0	20.8	-27.2
5	50.0	19.5	-24.6
5	100.0	18.5	-22.6

CODE REFERENCE

APPLICABLE CODES:

CURRENT BUILDING CODES- ADOPTED CODES FOR MARION COUNTY, FLORIDA
FLORIDA BUILDING CODE (FBC) 2010
FLORIDA PLUMBING CODE (FBC) 2010
FLORIDA MECHANICAL CODE (FBC) 2010
FLORIDA GAS CODE (FBC) 2010
NATIONAL ELECTRIC CODE (NFPA) 2008
FLORIDA ENERGU EFFICIENCY CODE FOR BUILDING CONSTRUCTION CHAPTER 13, 2007 FBC WITH 2009 UPDATES
FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION FLORIDA BUILDING CODE 2010
FLORIDA FIRE PREVENTION CODE 2010

OCCUPANCY (FBC CHAPTER 3):
ASSEMBLY - GROUP A3

ALTERATION LEVEL (FBC-EXISTING BUILDING CHAPTER 4):
LEVEL 2

TYPE OF CONSTRUCTION (FBC CHAPTER 6): TYPE IIIB (UNPROTECTED & UNSPRINKLERED)

GENERAL BUILDING LIMITATIONS (FBC TABLE 503):

GROUP A3	TYPE IIIB (UNPROTECTED, UNSPRINKLERED) ALLOWABLE:	PROVIDED:
MAX HEIGHT	55'-0"	UNDER 40'-0"
MAX STORIES	2	2 + MEZZ.
MAX AREA	9,500 SF PER FLOOR (GROSS)	6,744 MAX PER FLOOR 14,229 SF TOTAL (GROSS)

POPULATION/ OCCUPANCY LOAD

- EXISTING
- NO INTERNAL CHANGES

ELEVATOR

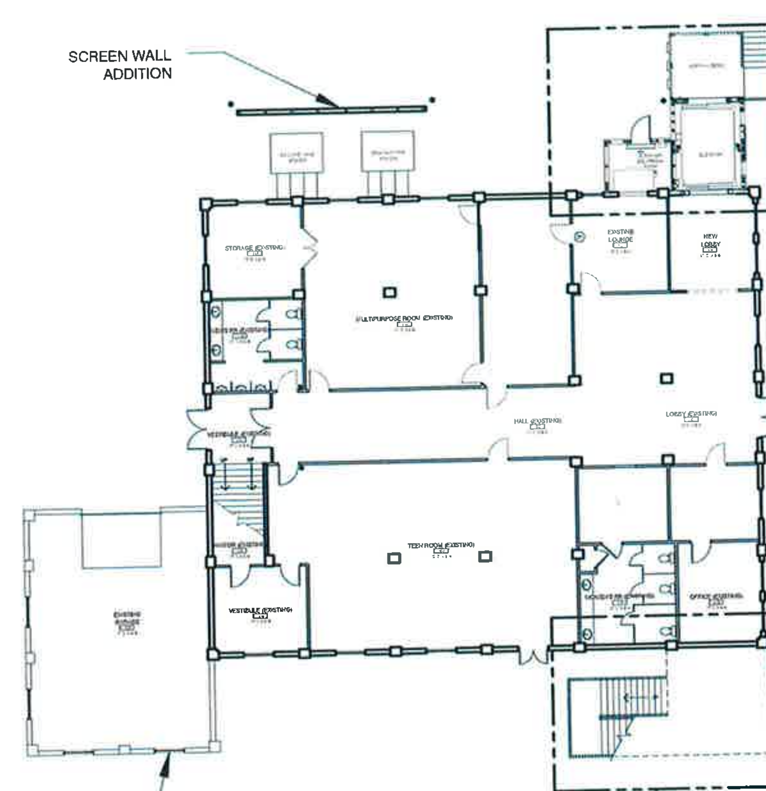
ELEVATOR SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ASME A 17.1/CSA B44, SAFETY CODE FOR ELEVATORS AND ESCALATORS.

ALTERNATES

1. REPLACEMENT OF EXISTING PLYWOOD SHEATHING OVER WINDOWS IN GARAGE W/ 5/8" CDX 4 PLY-PLYWOOD SHEATHING SECURED W/ TAPCONS TO EXISTING STRUCTURE & PAINTED ON BOTH SIDES. SIZE TO MATCH EXISTING. PRICE TO BE PER UNIT (WINDOW OPENING).
2. REPLACEMENT OF ALL 2 x 4 FLUORESCENT LIGHTING FIXTURES ON THE FIRST FLOOR OF BUILDING (NOT SHOWN) REFER TO CUT SHEET (E), ON SHEET E101 FOR SPECIFICATIONS. PLEASE INCLUDE MATERIAL & LABOR TO REMOVE & REPLACE EXISTING FIXTURE.
3. IN LIEU OF SPECIFIED LIGHT FIXTURE ('D' BASE BID) ON THE SECOND FLOOR, PROVIDE LIGHT FIXTURE 'F' SEE CUT SHEET ON SHEET E101. PLEASE INCLUDE MATERIAL & LABOR TO REMOVE & REPLACE EXISTING FIXTURE.
4. REPLACEMENT OF OVERHEAD ELECTRICAL SERVICE W/ NEW UNDERGROUND AS PER SHEET MEP.

INDEX OF DRAWINGS

OVERALL PROJECT



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florida license: aa26002579

SEAL
ROLANDO SOSA, ARCHITECT
FL LICENSE: AR 96264

A NEW (ELEVATOR ADDITION) FOR:
DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA,FLORIDA,34470

project no. 1502
by JBA
date 05.15.15
sheet no. A000

BID DOCUMENTS

DIVISION 1 – GENERAL REQUIREMENTS (rev. 1.14)

DIVISION 2 – SITE WORK

DIVISION 2 – SITE WORK (CONT.)

DIVISION 3 – CONCRETE

DIVISION 3 – CONCRETE (CONT.)

DIVISION 4 – MASONRY

DIVISION 5 – METALS

DIVISION 6 – CARPENTRY (ROUGH)

DIVISION 6 – CARPENTRY (CONT.)

N/A

DIVISION 6 – CARPENTRY (CONT.)

N/A

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

(rev. 02.15)

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FL LICENSE: AR 96264

A NEW (ELEVATOR ADDITION) FOR:

DISCOVERY CENTER

701 NE SANCHEZ AVENUE
OCALA,FLORIDA,34470

project no. 1502

by JBA

date 05.15.15

sheet no. SP101

BID DOCUMENTS

DIVISION 7 – THERMAL AND MOISTURE PROTECTION (CONT.)(rev. 1.14)

N/A

DIVISION 8 – DOORS AND WINDOWS

DIVISION 8 – DOORS AND WINDOWS (CONT.)

DIVISION 9 – FINISHES

DIVISION 9 – FINISHES (CONT.)

DIVISION 9 – FINISHES (CONT.)

DIVISION 10 – SPECIALTIES

N/A

DIVISION 11 – EQUIPMENT

DIVISION 12 – FURNISHINGS

DIVISION 13 – MECHANICAL

DIVISION 14 – ELECTRICAL

DIVISION 15 – PLUMBING

N/A

DIVISION 16 – ELEVATOR

DIVISION 16 – ELEVATOR (CONT.)

(rev. 02.15)

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A NEW (ELEVATOR ADDITION) FOR:
DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA, FLORIDA, 34470

project no. 1502

date 05.15.15

by JBA

sheet no. SP102

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DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA, FLORIDA, 34470

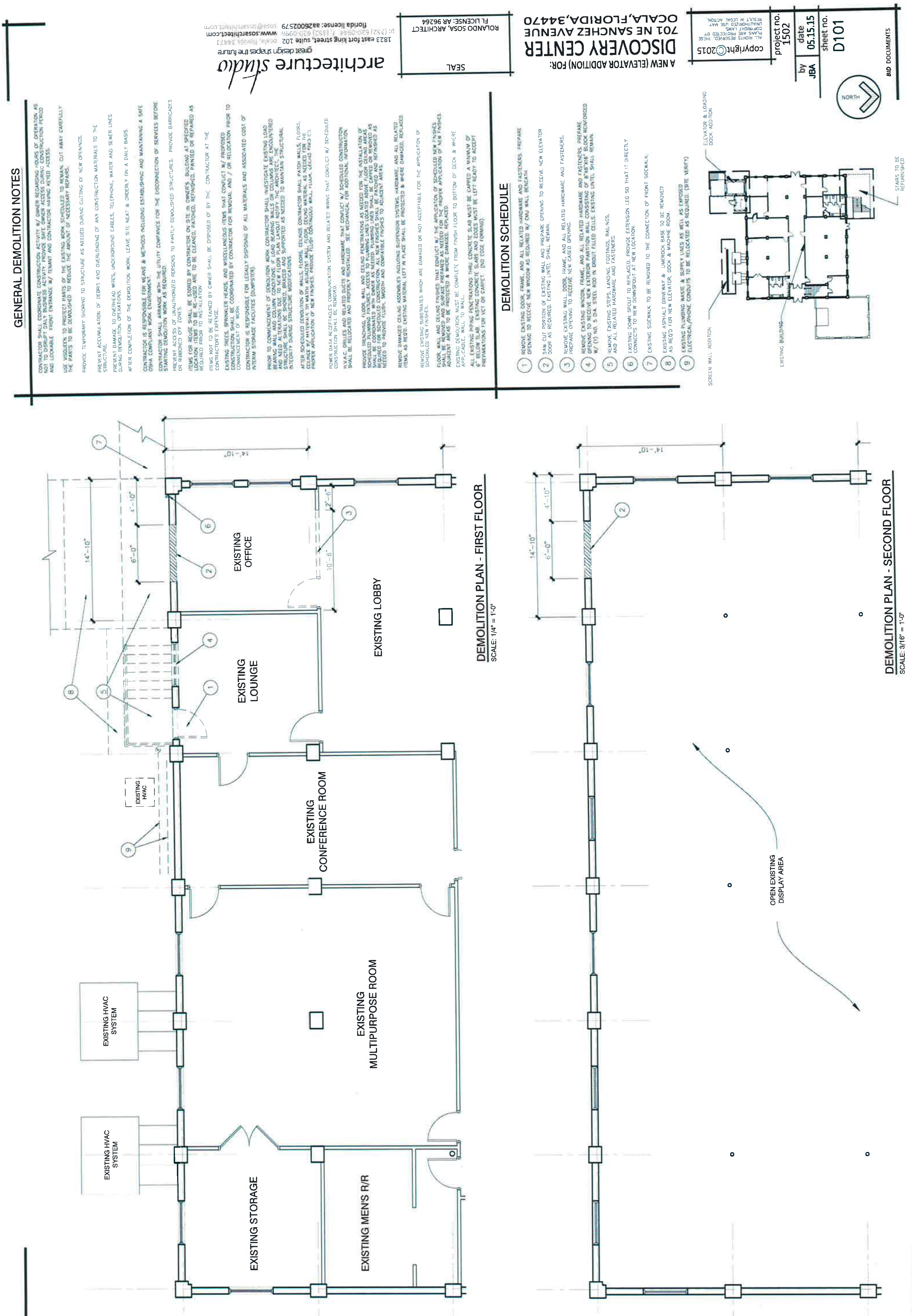
project no. 1502
date 05.15.15
by JBA
sheet no. SP103

BID DOCUMENTS

DIVISION 16 – ELEVATOR (CONT.)

DIVISION 16 – ELEVATOR (CONT.)

(rev. 02.15)


GENERAL DEMOLITION NOTES
DEMOLITION SCHEDULE
A NEW (ELEVATOR ADDITION) FOR:
DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA,FLORIDA,34470
SEAL
ROLANDO SOSA, ARCHITECT
FL LICENSE: AR 96264
architecture studio
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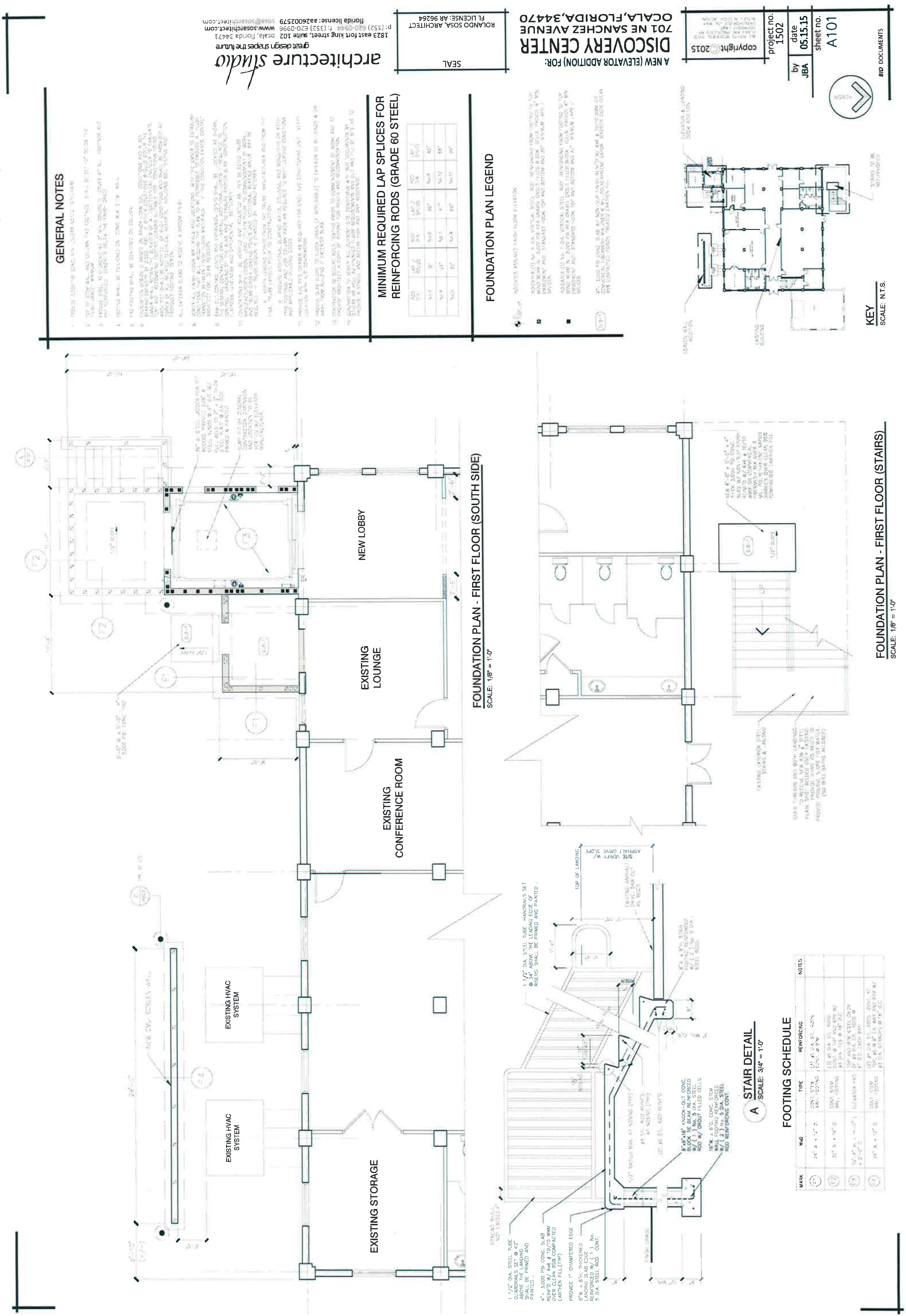
project no. 1502
date 05.15.15
sheet no. D101
by JBA
BID DOCUMENTS
NORTH
EXISTING OFFICE
EXISTING LOBBY
EXISTING LOUNGE
EXISTING CONFERENCE ROOM
EXISTING MULTIPURPOSE ROOM
EXISTING STORAGE
EXISTING MEN'S R/R
EXISTING HVAC
EXISTING HVAC SYSTEM
DEMOLITION PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"
OPEN EXISTING DISPLAY AREA
DEMOLITION PLAN - SECOND FLOOR
SCALE: 3/16" = 1'-0"


GENERAL NOTES
MINIMUM REQUIRED LAP SPLICES FOR REINFORCING RODS (GRADE 60 STEEL)
FOUNDATION PLAN LEGEND
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DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA, FLORIDA, 34470
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project no. 1502
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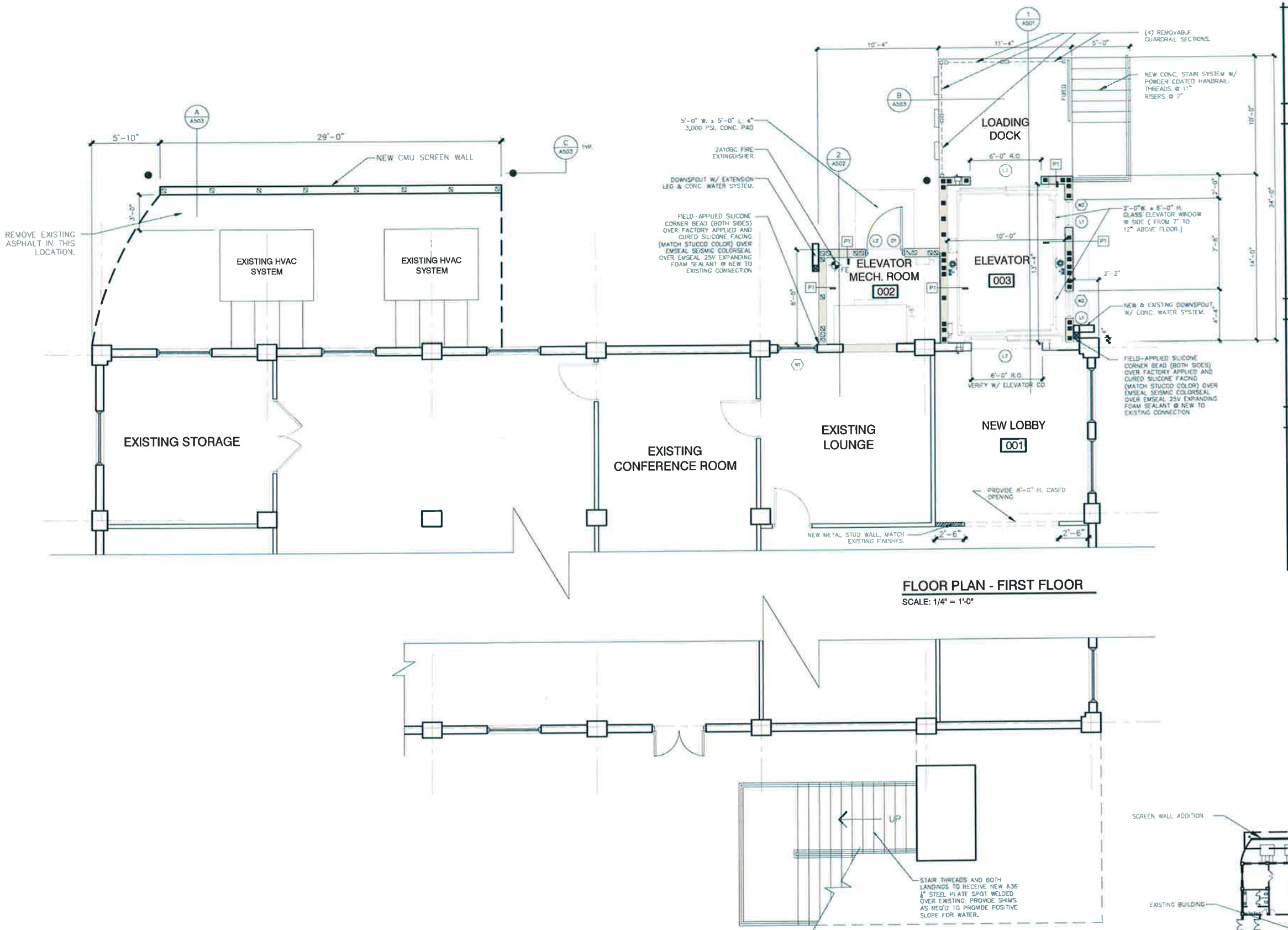
sheet no. A101
BID DOCUMENTS
NORTH
KEY
SCALE: N.T.S.
NEW LOBBY
EXISTING LOUNGE
EXISTING CONFERENCE ROOM
EXISTING HVAC SYSTEM
EXISTING HVAC SYSTEM
EXISTING STORAGE
FOUNDATION PLAN - FIRST FLOOR (SOUTH SIDE)
SCALE: 1/8" = 1'-0"
FOUNDATION PLAN - FIRST FLOOR (STAIRS)
SCALE: 1/8" = 1'-0"
A STAIR DETAIL
SCALE: 3/4" = 1'-0"
FOOTING SCHEDULE

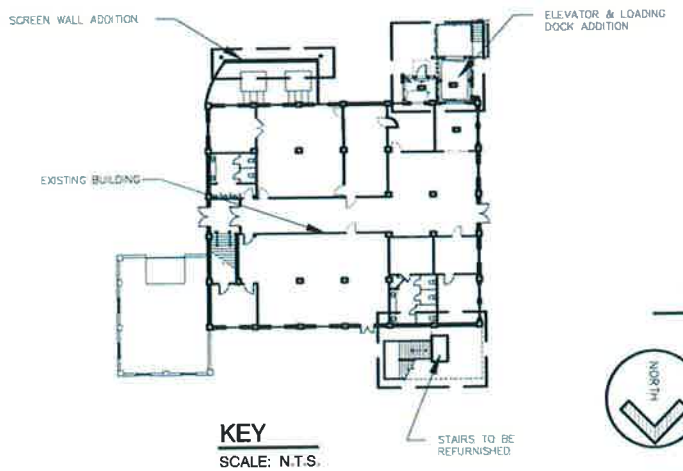


FLOOR PLAN - FIRST FLOOR

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

FLOOR PLAN - FIRST FLOOR (STAIRS)

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



KEY

SCALE: N.T.S.

SQ. FT. DATA

ELEVATOR ADDITION	159	SQ. FT.
LOADING DOCK	113	SQ. FT.
ELEVATOR MECH. ROOM	83	SQ. FT.

WALL TYPE LEGEND

EXISTING EXTERIOR WALL TO REMAIN

EXISTING INTERIOR WALL TO REMAIN

P1 — NEW EXTERIOR PARTITION WALL CONSISTING OF PAINTED 2" STUCCO OVER 8"x8"x16" CONC. BLOCK REINF'D W/ STEEL ROD IN GROUT FILLED CELLS.

INDICATES (1) No. 5 DIA. VERTICAL STEEL ROD REINFORCING FROM FOOTING TO TOP BOND BEAM IN 3,000 PSI PEA GRAVEL GROUT FILLED BLOCK CELLS. PROVIDE 8" MIN. EMBEDMENT AND STANDARD HOOK TOP AND BOTTOM AND 30" MINIMUM LAPS / SPLICES.

INDICATES (1) No. 7 DIA. VERTICAL STEEL ROD REINFORCING FROM FOOTING TO TOP BOND BEAM IN 3,000 PSI PEA GRAVEL GROUT FILLED BLOCK CELLS. PROVIDE 8" MIN. EMBEDMENT AND STANDARD HOOK TOP AND BOTTOM AND 42" MINIMUM LAPS / SPLICES.

SYMBOL LEGEND

W-# WINDOW SYMBOL

D-# DOOR SYMBOL

L-## LINTEL SYMBOL

GENERAL NOTES

ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL GOVERNING NATIONAL, STATE AND LOCAL CODES AND REGULATIONS.

ALL BUILDING ELEMENTS SHALL BE INSTALLED STRAIGHT, LEVEL, PLUMB AND SQUARE. ALL GYPSUM WALL BOARD SHALL BE INSTALLED VERTICALLY W/ NO HORIZONTAL JOINTS.

DUE TO MATERIAL TOLERANCES THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS WITH ACTUAL CONDITIONS ON THE SITE AND REPORT ANY DIFFERENCES TO THE ARCHITECT FOR INTERPRETATION AND RESOLUTION PRIOR TO COMMENCEMENT OF WORK.

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project no. 1502

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WALL TYPE LEGEND

- EXISTING EXTERIOR WALL TO REMAIN
- EXISTING INTERIOR WALL TO REMAIN
- NEW EXTERIOR PARTITION WALL CONSISTING OF PAINTED ⅞" STUCCO OVER 8"x8"x16" CONC. BLOCK REINF'D W/ STEEL ROD IN GROUT FILLED CELLS.
- INDICATES (1) No. 5 DIA. VERTICAL STEEL ROD REINFORCING FROM FOOTING TO TOP BOND BEAM IN 3,000 PSI PEA GRAVEL GROUT FILLED BLOCK CELLS. PROVIDE 6" MIN. EMBEDMENT AND STANDARD HOOK TOP AND BOTTOM AND 30" MINIMUM LAPS / SPLICES.
- INDICATES (1) No. 7 DIA. VERTICAL STEEL ROD REINFORCING FROM FOOTING TO BOND BEAM IN 3,000 PSI PEA GRAVEL GROUT FILLED BLOCK CELLS. PROVIDE 6" MIN. EMBEDMENT AND STANDARD HOOK TOP AND BOTTOM AND 42" MINIMUM LAPS / SPLICES.

SYMBOL LEGEND

- W#1 WINDOW SYMBOL
- L#1 LINTEL SYMBOL

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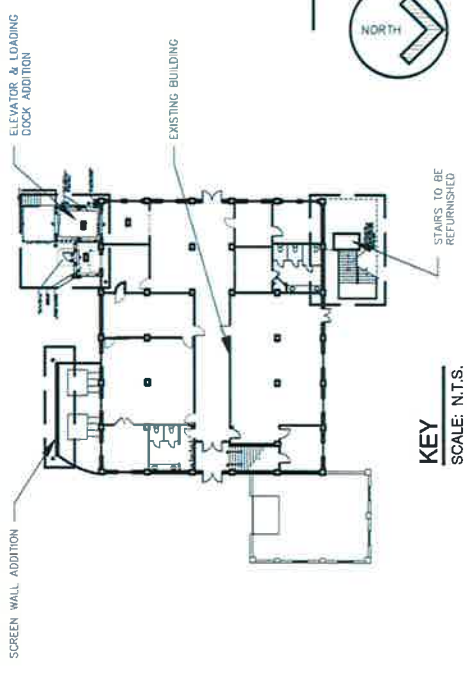
DUE TO MATERIAL TOLERANCES THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS WITH ACTUAL CONDITIONS ON THE SITE AND REPORT ANY DIFFERENCES TO THE ARCHITECT FOR INTERPRETATION AND RESOLUTION PRIOR TO COMMENCEMENT OF WORK.



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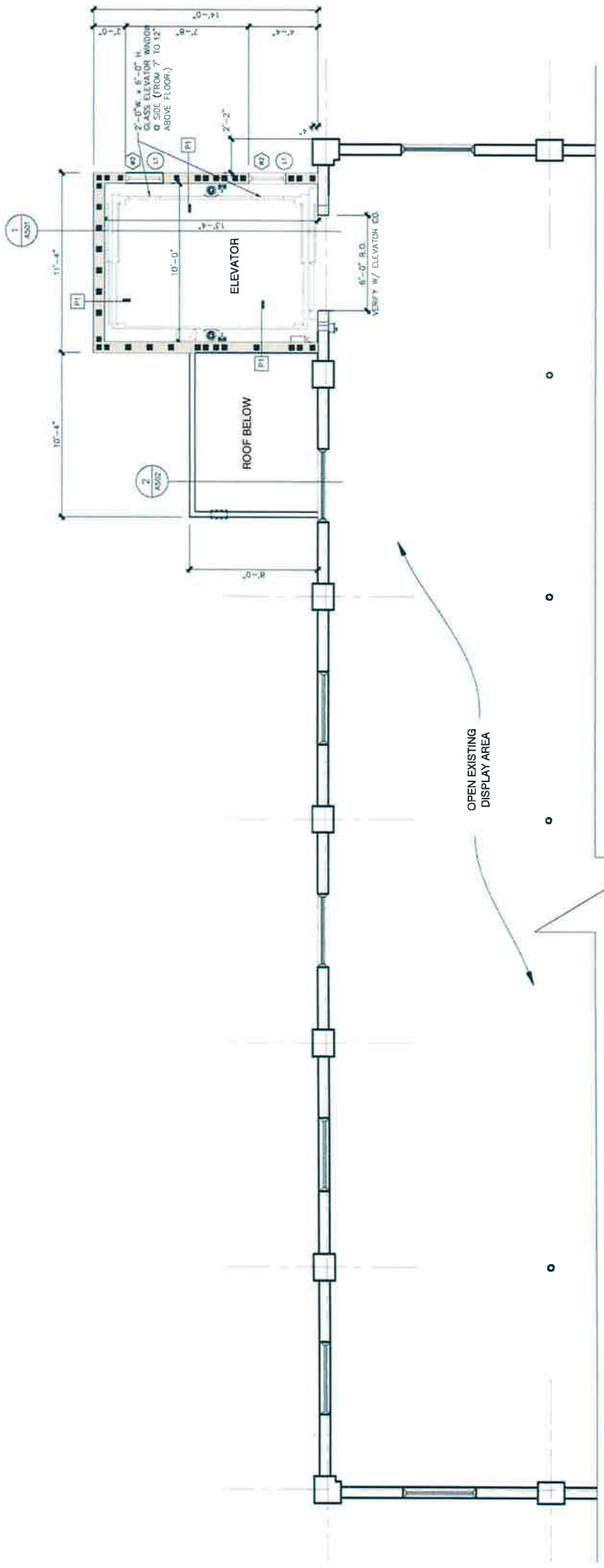
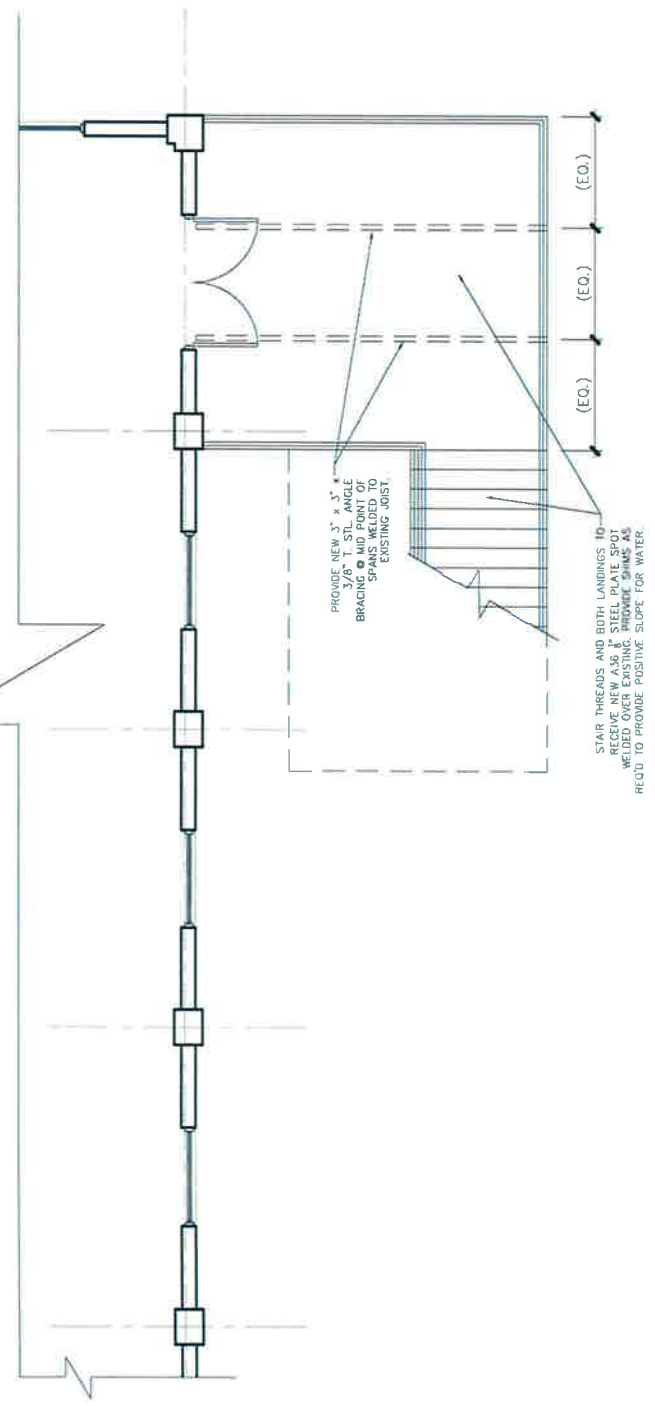


FLOOR PLAN - 2ND FLOOR (SOUTH SIDE)
SCALE: 1/4" = 1'-0"



FLOOR PLAN - 2ND FLOOR (STAIRS)
SCALE: 1/4" = 1'-0"

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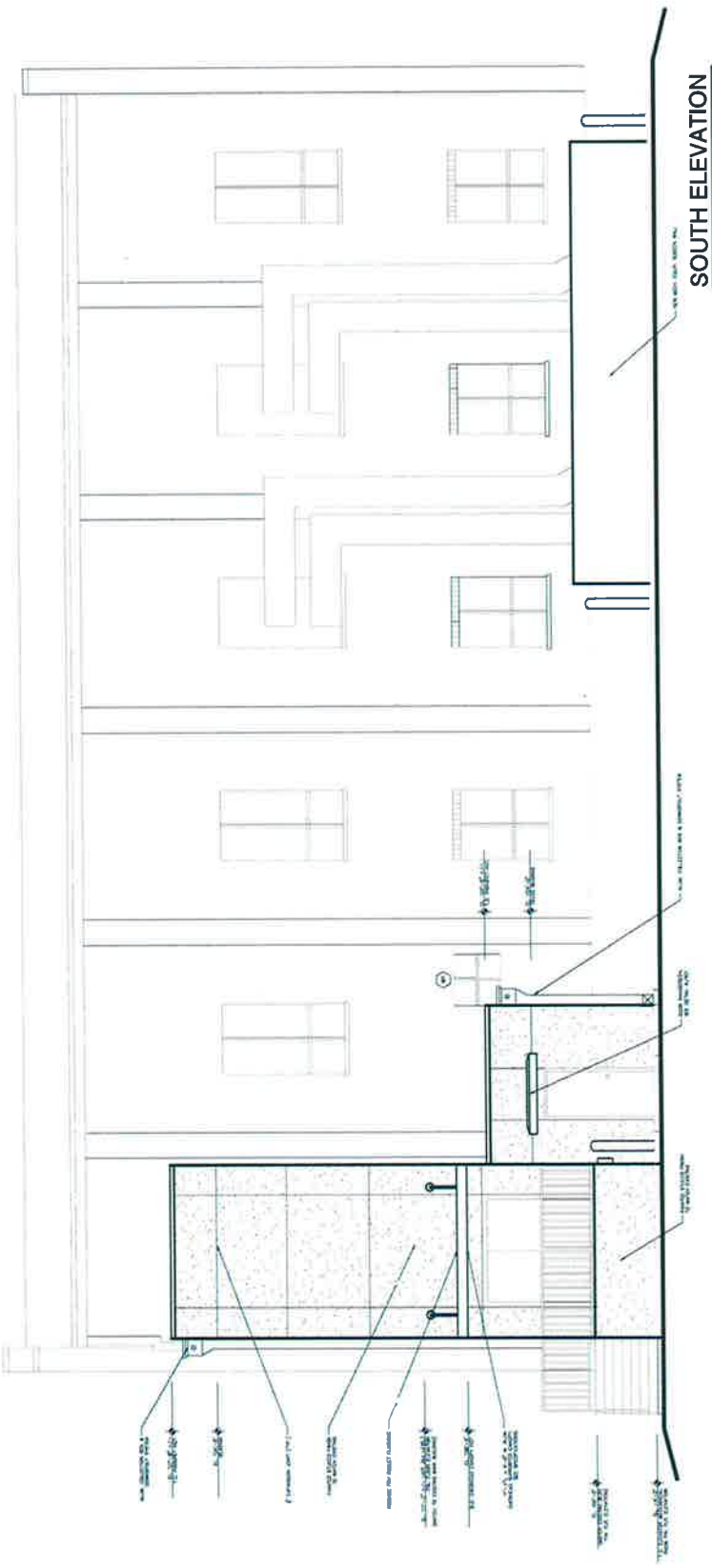
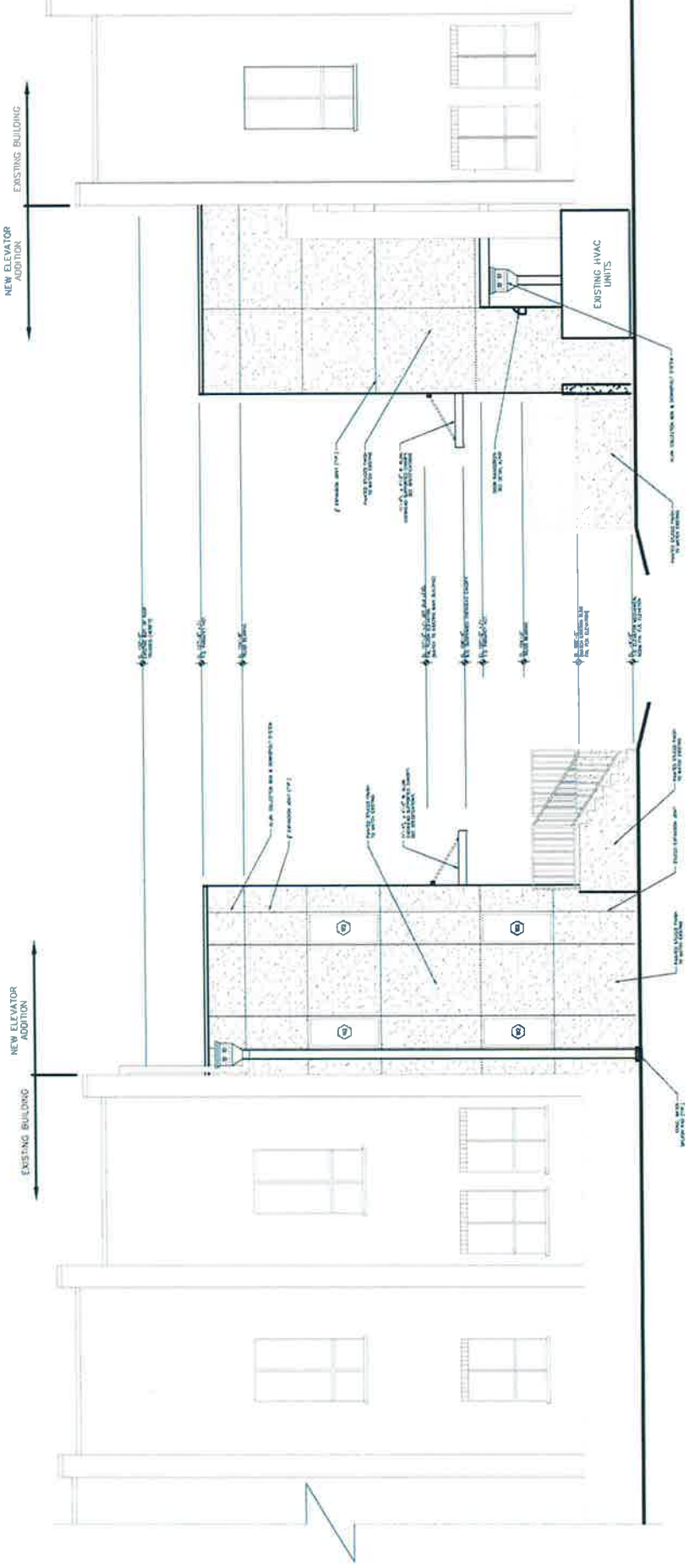
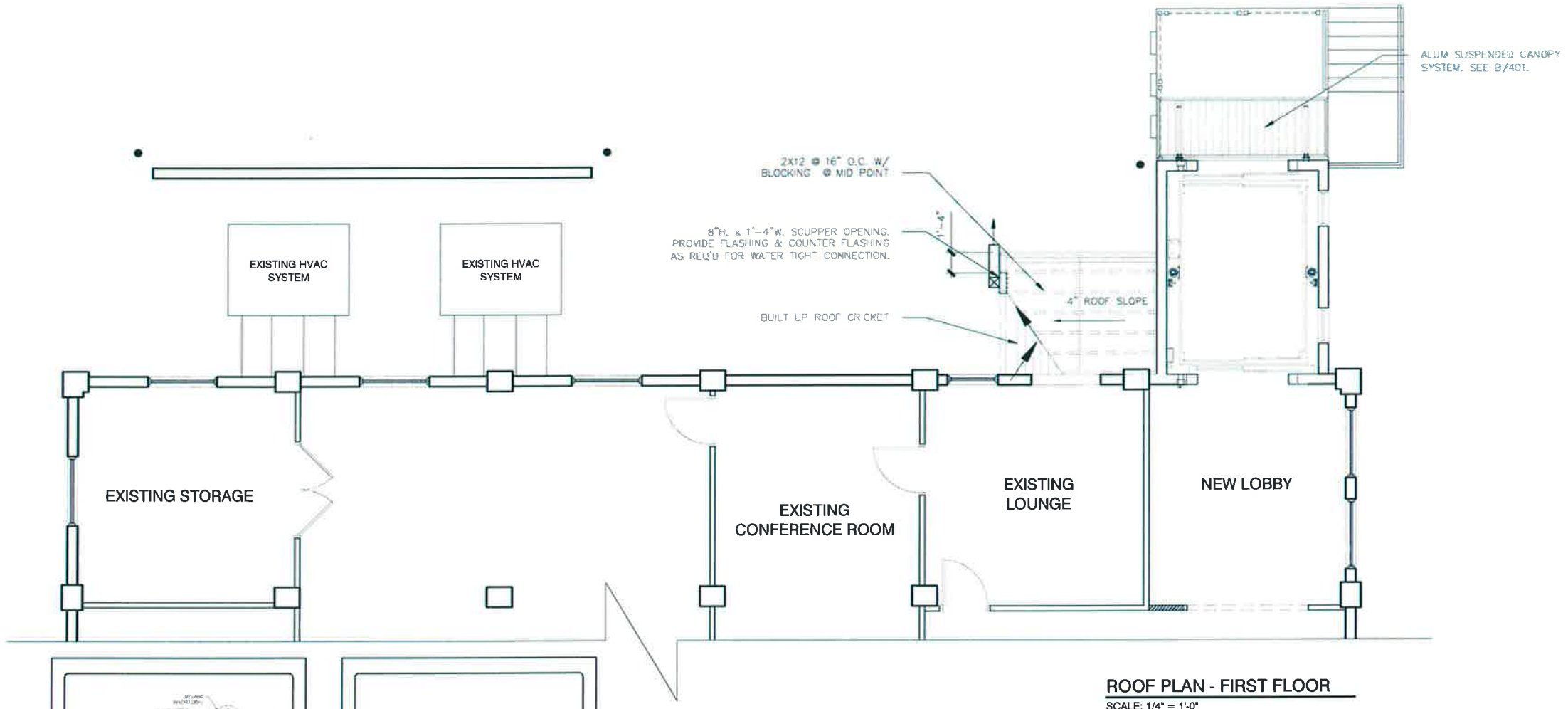
SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



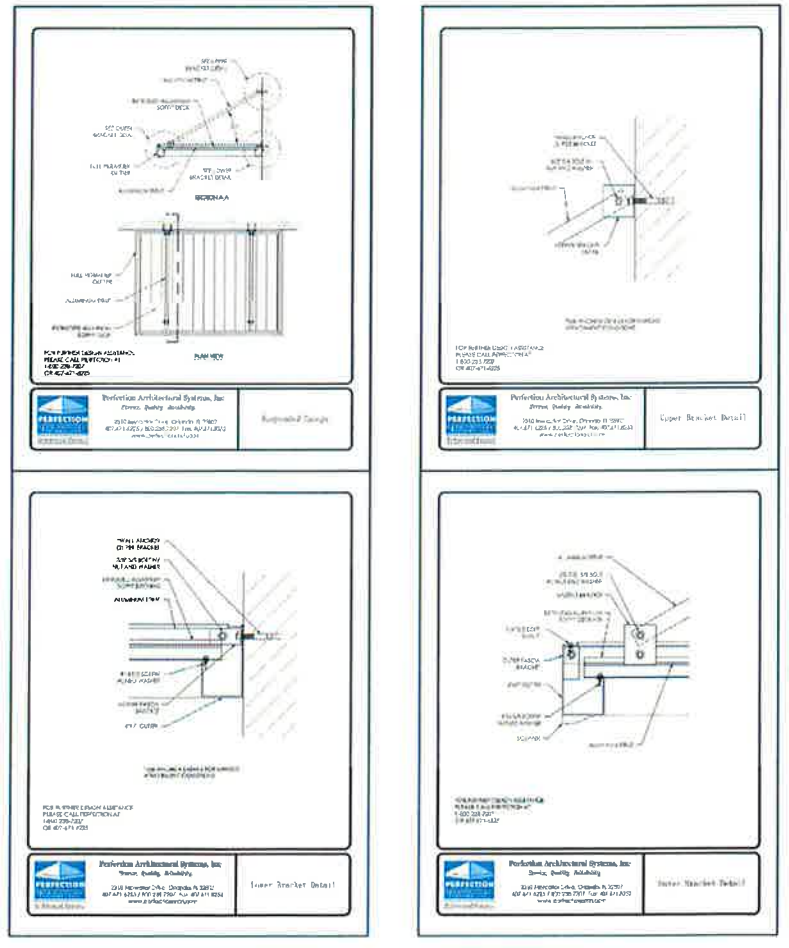
EAST ELEVATION
SCALE: 3/16" = 1'-0"



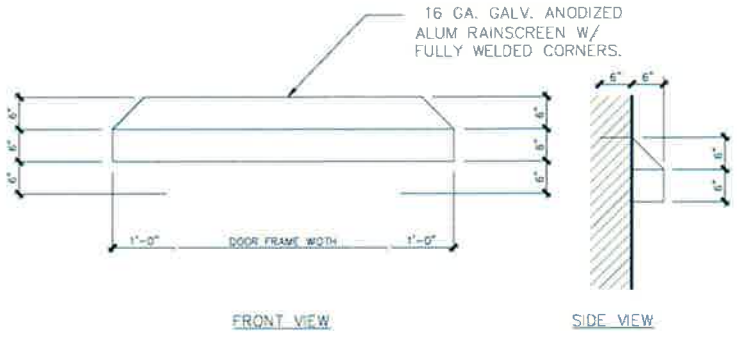
WEST ELEVATION
SCALE: 3/16" = 1'-0"



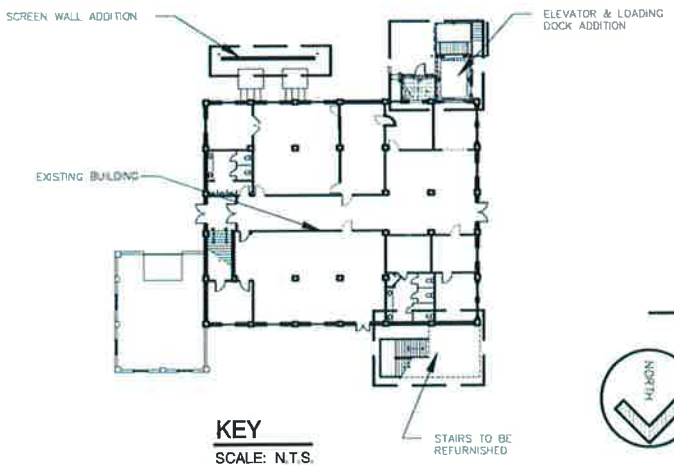
ROOF PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"



B SUSPENDED CANOPY DETAIL
SCALE: NTS



A RAINSCREEN DETAIL
SCALE: 3/4" = 1'-0"



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SCALE: N.T.S.

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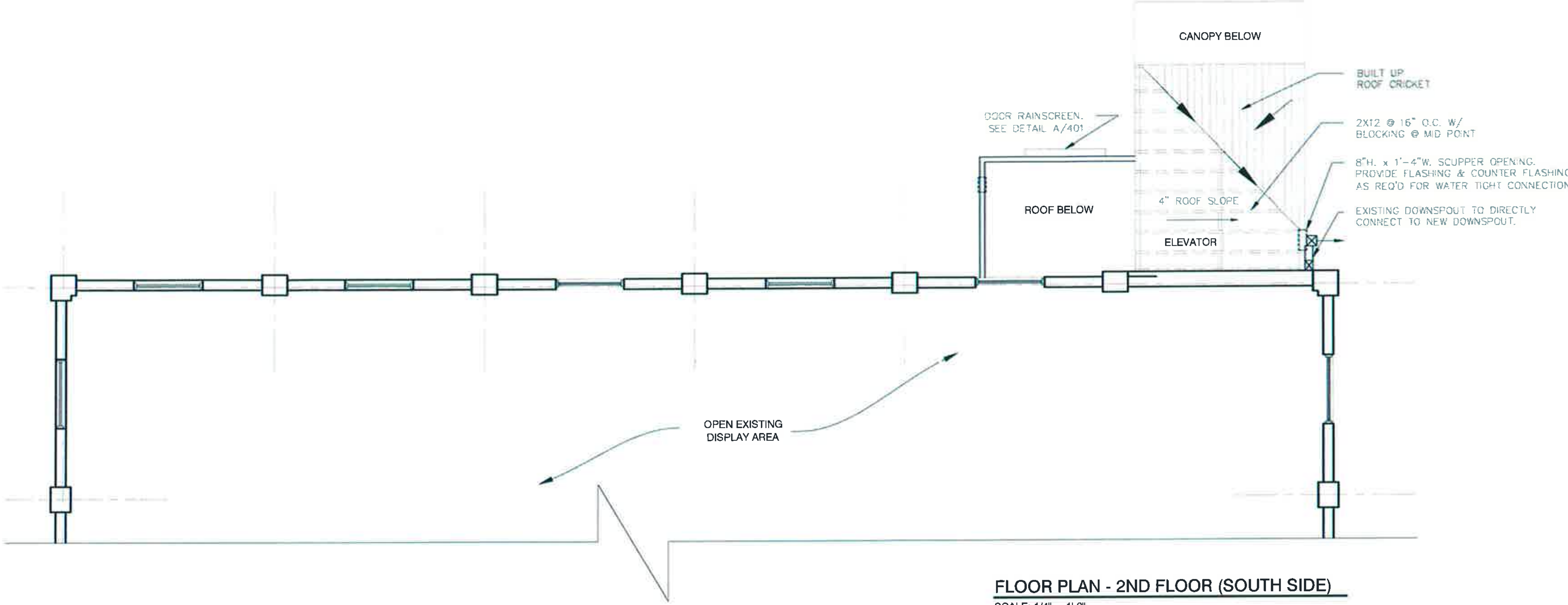


FLOOR PLAN - 2ND FLOOR (SOUTH SIDE)

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

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOORS: CARPET	FLOORS: VCT	FLOORS: CERAMIC TILE	FLOORS: SEALED CONCRETE	BASE: CARPET	BASE: VINYL COMPOSITE	BASE: NONE	WALLS: PAINTED CMU BLOCK	WALLS: PAINTED GYP. BD.	WALLS: NONE	CLG: ACOUSTICAL CEILING TILE	CLG: PAINTED GYP. BOARD	CLG: EXISTING	CLG HT
001	NEW LOBBY		●				●			●		●			EXISTING
002	ELEVATOR MECH. ROOM				●			●	●				●		8'-0"
003	ELEVATOR		●					●			●				

NOTE: VCT MATERIAL TO BE TEXAS GRANITE SOLID VINYL TILE 12" x 12" .125" AS MANUFACTURED BY AMERICAN BILTRITE FLOORING. CONTACT JOLYNNA KING (352) 586-6501.

WINDOW SCHEDULE

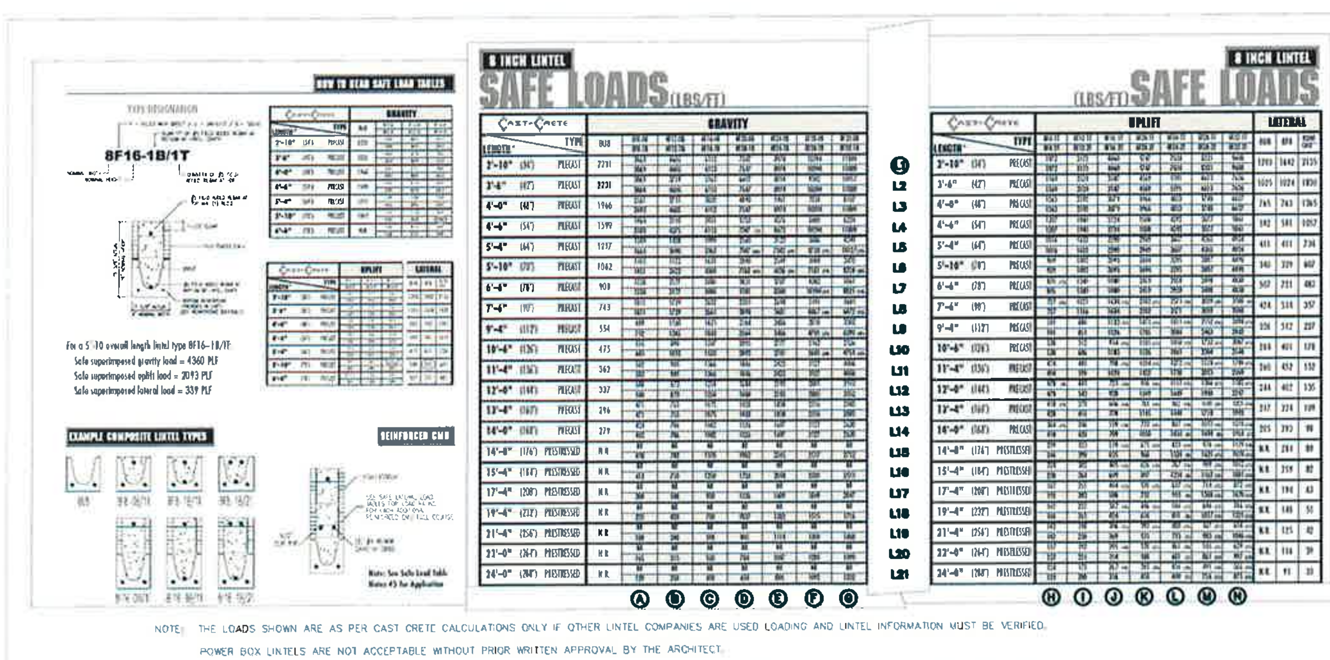
MARK	LOCATION	SIZE	MATERIAL	REMARKS
W1	EXTERIOR	3'-0"W. x 3'-0" H.	1" FIXED BRONZE TINTED GLASS	STOREFRONT BRONZE ALUM. SYSTEM, KAWNEER OR EQUAL
W2	EXTERIOR	2'-0"W. x 5'-0" H.	1" FIXED BRONZE TINTED GLASS	STOREFRONT BRONZE ALUM. SYSTEM, KAWNEER OR EQUAL

DOOR SCHEDULE

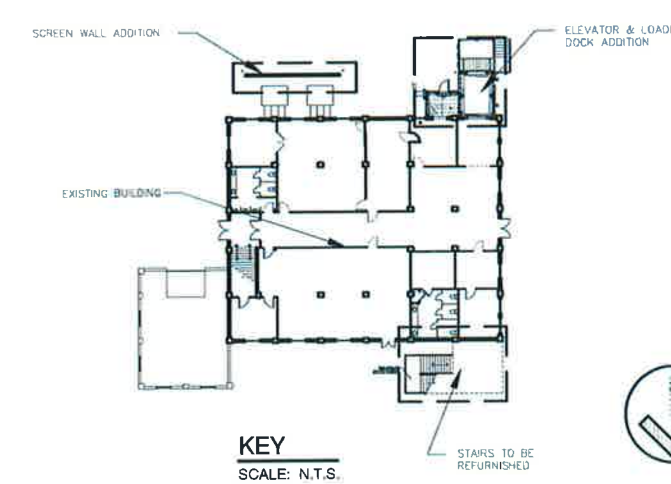
MARK	LOCATION	SIZE	MATERIAL	REMARKS
D1	ELEVATOR MECH. ROOM	3'-0"x 7'-0"	METAL DOOR & FRAME	DOOR TO MATCH EXISTING

DOOR NOTES:

1. HOLLOW METAL EXTERIOR INSULATED DOOR & FRAME TO BE 16 ga. GALV. MTL. DOOR W/ FALCON KEYED COMMERCIAL LEVERSET. CORNERS OF FRAME TO BE WELDED & GROUND SMOOTH.



NOTE: THE LOADS SHOWN ARE AS PER CAST CRETE CALCULATIONS ONLY IF OTHER LINTEL COMPANIES ARE USED LOADING AND LINTEL INFORMATION MUST BE VERIFIED. POWER BOX LINTELS ARE NOT ACCEPTABLE WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT.



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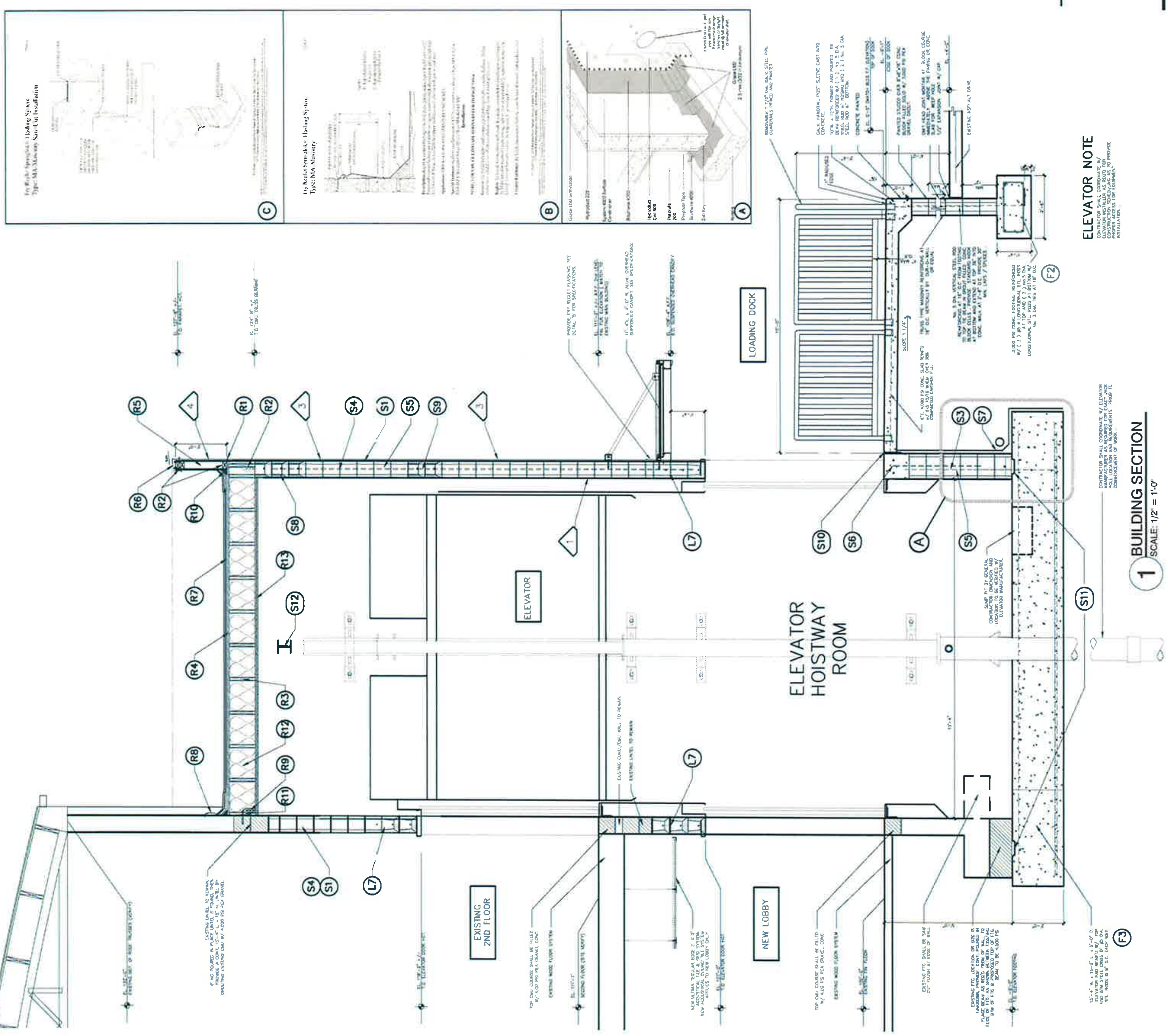


BUILDING SECTION NOTES

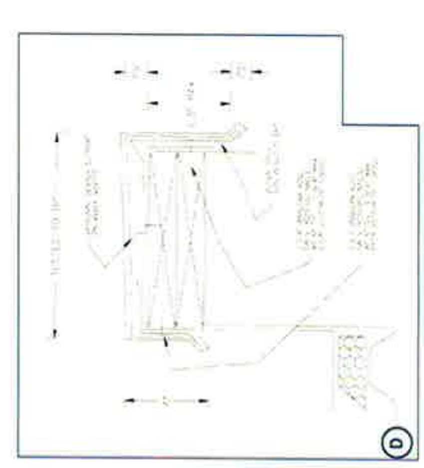
MARK	DESCRIPTION
S1	8"x8"x16" CONC. BLOCK w/ (1) No. 7 DIA. ROD FROM FTG TO TOP OF TIE BEAM w/ 42" MIN. BAR LAPS.
S2	GALV. METAL FLASHING w/ FRY REGLET COUNTER FLASHING SEE DETAIL C.
S3	8"x12"x16" CONC. BLOCK FILL EVERY CELL SOLID BELOW GRADE REINFORCED w/ (1) No. 7 DIA. ROD IN EA. CELL.
S4	LADDER TYPE MASONRY REINFORCING AT 16" O.C. VERTICALLY BY DUR-O-WALL OR EQUAL INSTALLED AS PER STRICT MANUFACTURER'S INSTRUCTIONS.
S5	(1) No. 7 DIA. VERTICAL STEEL ROD REINFORCING FROM FOOTING TO TOP TIE BEAM IN 3,000 PSI PEA GRAVEL GROUT FILLED BLOCK CELLS. PROVIDE 42" MIN. LAPS / SPLICES, 6" MIN. EMBEDMENT AT TOP TIE BEAM AND FOOTING AND STANDARD HOOK TOP AND BOTTOM.
S6	12x12 CAST-IN-PLACE w/ (2) No. 5 DIA STEEL ROD
S7	BELOW GRADE BITUTHENE SYSTEM 4000 WATER PROOFING SYSTEM BY GRACE CONSTRUCTION (1-800-444-6459) SEE DETAIL A
S8	8"x8"x24" CONT. BOND BEAM REINF'D W/ (3) No. 5 DIA. RODS & FILLED W/ 3,000 PSI PEA GRAVEL CONC.
S9	8"x8"x16" CONT. BOND BEAM REINF'D W/ (2) No. 5 DIA. RODS & FILLED W/ 3,000 PSI PEA GRAVEL CONC.
S10	1/2" REFLEX EXPANSION JOINT.
S11	2 X 6 TAPERED KEY JOINT.
S12	10,000 LBS SAFETY STEEL BEAM

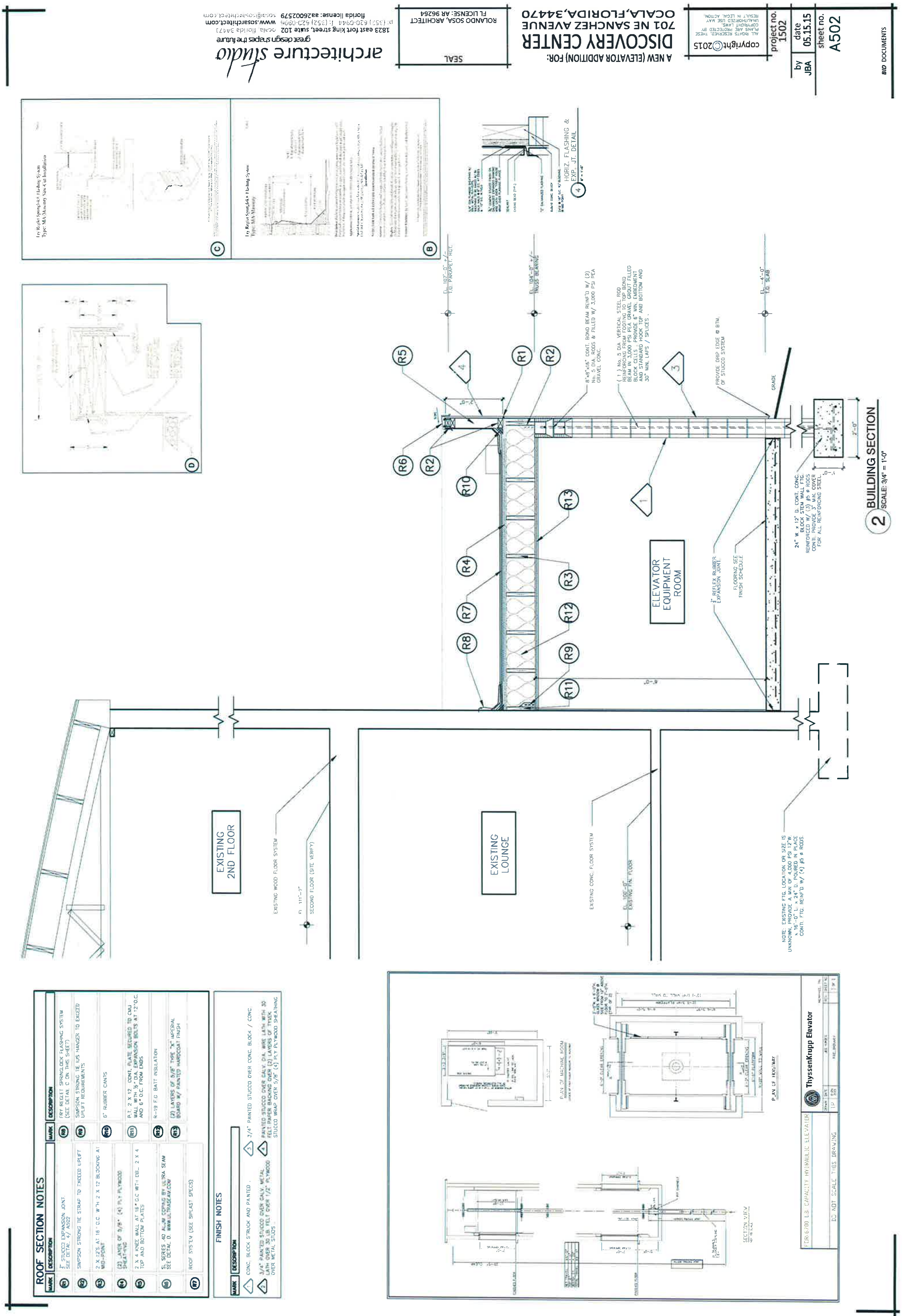
ROOF SECTION NOTES

MARK	DESCRIPTION
R1	1/2" STUCCO EXPANSION JOINT. SEE DETAIL 4/ A502
R2	SIMPSON STRONG TIE STRAP TO EXCEED UPLIFT
R3	2 X 12'S AT 16" O.C. WITH 2 X 12 BLOCKING AT MID-POINT
R4	(2) LAYER OF 5/8" (4) PLY PLYWOOD SHEATHING
R5	2 X 4 KNEE WALL AT 16" O.C WITH DBL. 2 X 4 TOP AND BOTTOM PLATES
R6	SL SERIES 40 ALUM COPING BY ULTRA SEAM SEE DETAIL D. WWW.ULTRASEAM.COM
R7	ROOF SYSTEM (SEE SP_AST SPECS)
R8	FRY REGLET SPRINGLOCK FLASHING SYSTEM (SEE DETAIL C ON THIS SHEET)
R9	SIMPSON STRONG TIE IUS HANGER TO EXCEED UPLIFT REQUIREMENTS
R10	6" RUBBER CANTS
R11	P.T. 2 X 12 CONT. PLATE SECURED TO CMU WALL WITH 1/2" DIA. EXPANSION BOLTS AT 12" O.C. AND 6" O.C. FROM ENDS
R12	R-19 F.G. BATT INSULATION
R13	(2) LAYERS OF 5/8" TYPE "X" IMPERIAL BOARD W/ PAINTED HARDCOAT FINISH

FINISH NOTES

MARK	DESCRIPTION
1	CONC. BLOCK STRUCK AND PAINTED
2	3/4" PAINTED STUCCO OVER GALV. METAL LATH OVER 30 LB. FELT OVER 1/2" PLYWOOD OVER METAL STUDS
3	3/4" PAINTED STUCCO OVER CONC BLOCK / CONC.
4	PAINTED STUCCO OVER GALV. DIA. WIRE LATH WITH 30 FELT PAPER BACKING OVER (2) LAYERS OF TYVEK STUCCO WRAP OVER 5/8" (4) PLY PLYWOOD SHEATHING

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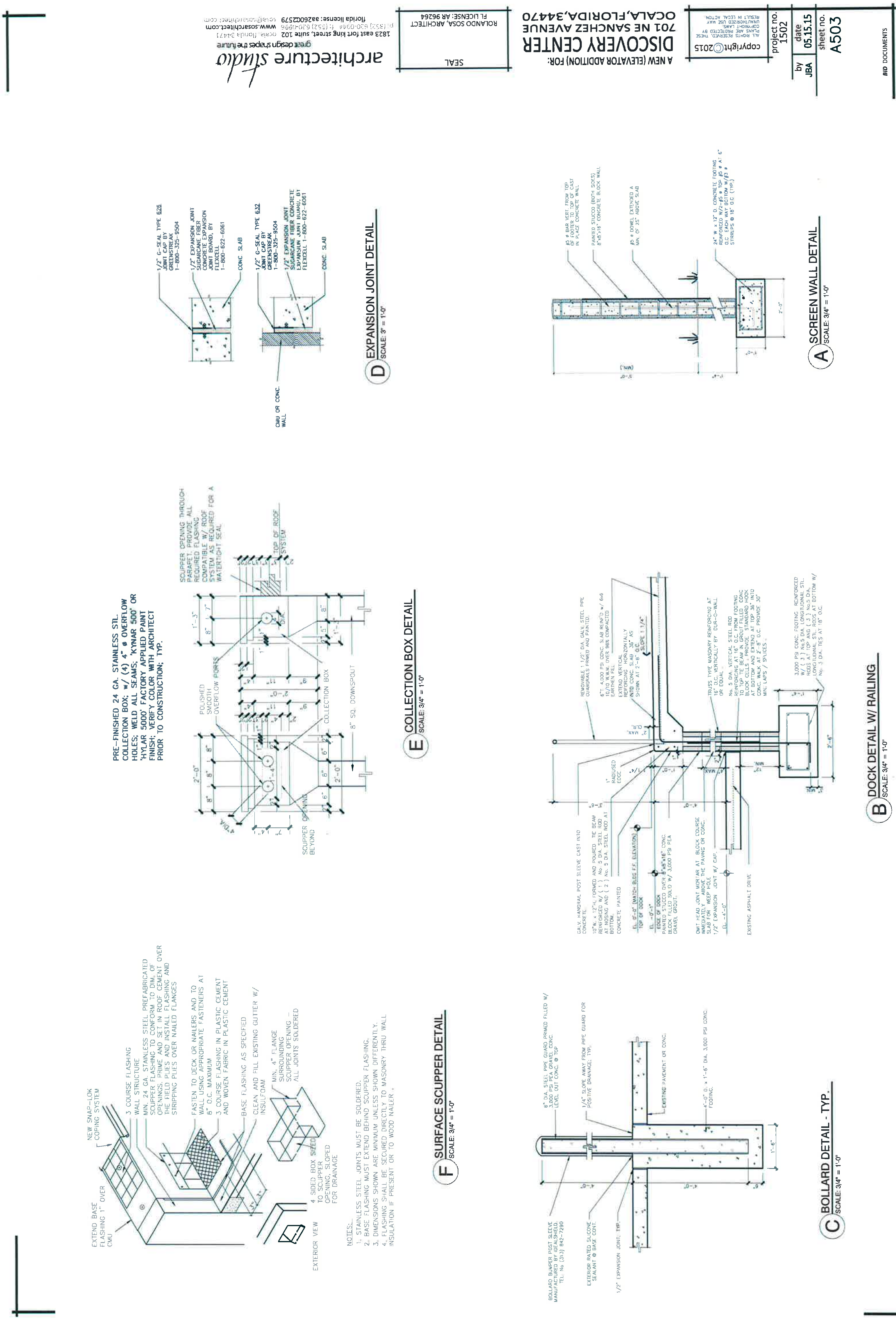
HORIZ. FLASHING & EXP. JT. DETAIL
ELEVATOR EQUIPMENT ROOM
EXISTING 2ND FLOOR
EXISTING LOUNGE
2 BUILDING SECTION
SCALE: 3/4" = 1'-0"
ROOF SECTION NOTES
FINISH NOTES
ThyssenKrupp Elevator
SECTION VIEW
PLAN OF HOISTWAY
PLAN OF MACHINE ROOM
DO NOT SCALE THIS DRAWING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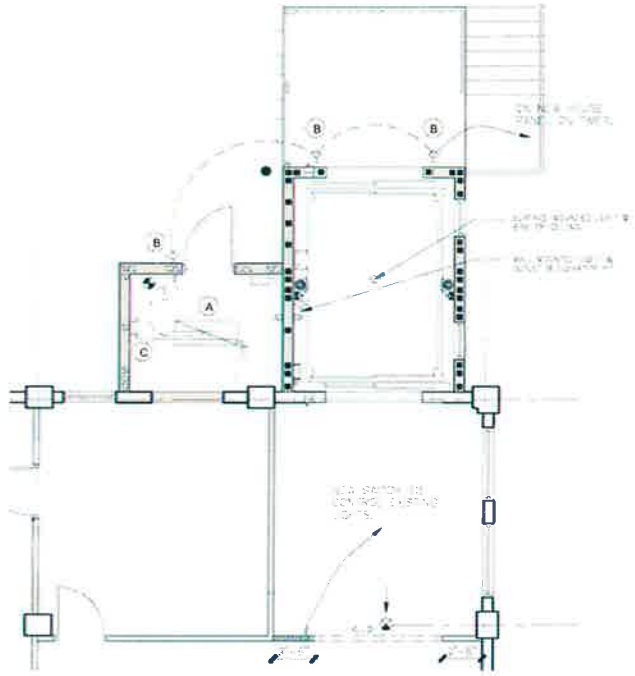
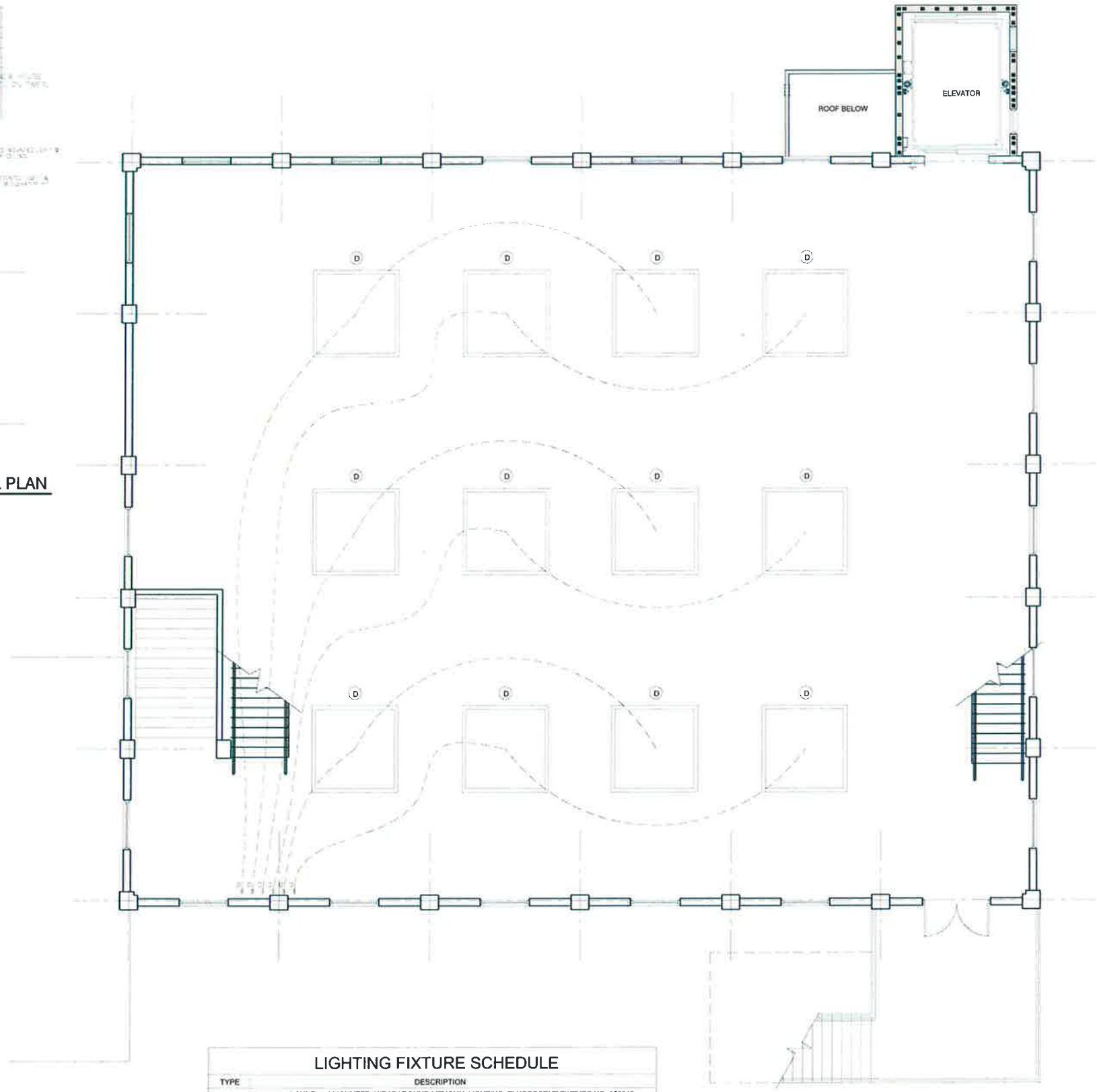
D EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"
A SCREEN WALL DETAIL
SCALE: 3/4" = 1'-0"
E COLLECTION BOX DETAIL
SCALE: 3/4" = 1'-0"
B DOCK DETAIL W/ RAILING
SCALE: 3/4" = 1'-0"
F SURFACE SCUPPER DETAIL
SCALE: 3/4" = 1'-0"
C BOLLARD DETAIL - TYP.
SCALE: 3/4" = 1'-0"
PRE-FINISHED 24 GA. STAINLESS STL. COLLECTION BOX; w/ (4) 4" ø OVERFLOW HOLES; WELD ALL SEAMS; 'KYNAR 500' OR 'HYLAR 5000' FACTORY APPLIED PAINT FINISH; VERIFY COLOR WITH ARCHITECT PRIOR TO CONSTRUCTION; TYP.

'D' ALTERNATE # 3



1st FLOOR LIGHTING ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

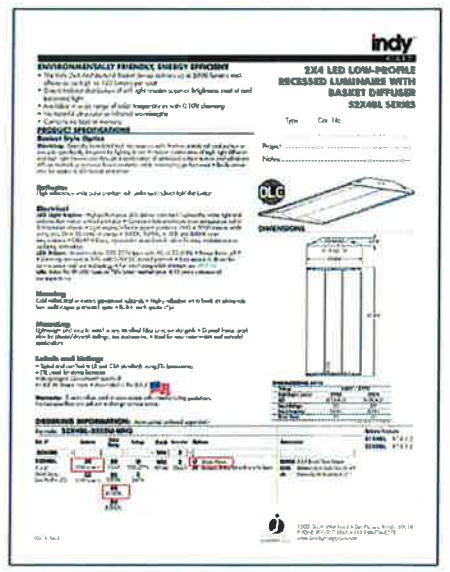


2nd FLOOR LIGHTING PLAN
SCALE: 3/16" = 1'-0"

BASE BID

8' x 8' SQ. LIGHT CONFIGURATION W/ AIRCRAFT CABLE SUSPENSION SYSTEM.

(D)



(E)

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION
(A)	48" SURFACE MOUNTED WRAPAROUND LITHONIA LIGHTING, FLUORSCENT FIXTURE NO. 656848
(B)	EXTERIOR WALL MOUNTED TWR1- 2/42TRT- MVOLT, LPI COMAPCT FLUORSCENT WALL P-ACK BY LITHONIA LIGHTING
(C)	EMERGENCY LIGHT, BATTERY PACK ' AA' BY COOPER LIGHTING
(D)	EXISTING HEIGHT BAY STYLE LIGHT FIXTURES TO BE REPLACE W/ FINELITE HIGH PERFORMANCE 4" APERTURE (HP-4) DIRECT MODEL # HP-4D 8 HO 4000K FIXTURES TO BE MOUNTED AT EXISTING HGT. W/ AIRCRAFT CABLES SYSTEM SECURED TO STRUCTURE.
(E)	ALL EXISTING 2x4 FLUORSCENT FIXTURES IN THE FIRST FLOOR (NOT SHOWN) SHALL BE REPLACED IN SAME LOCATION AS EXISTING W/ INDY 2x4 LOW-PROFILE RECESSED LUMINAIRE W/ BASKET DIFFUSER MODEL # S2X4BL-39 40 -WH3 -CP.

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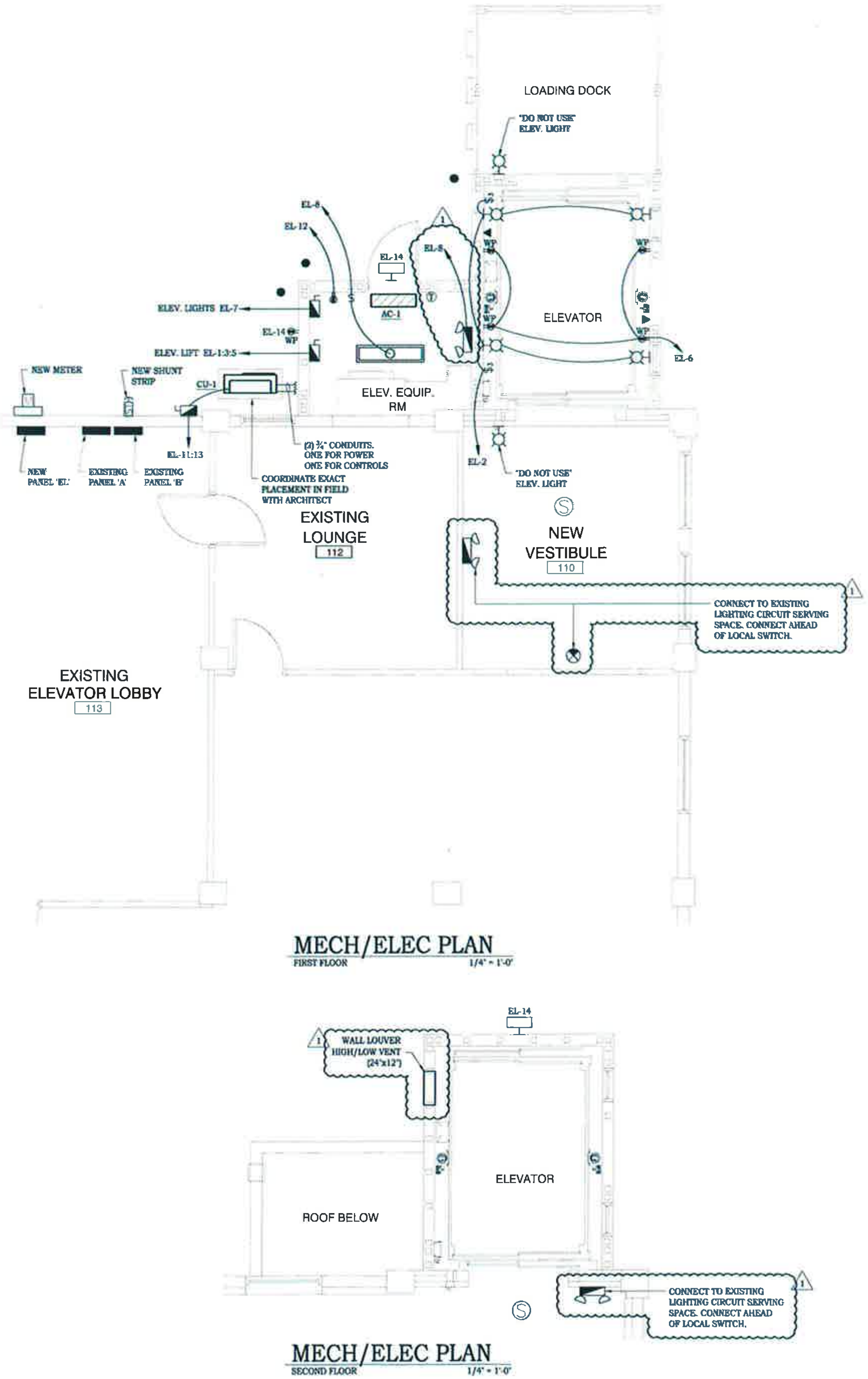

LEGEND

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT OR AIR CONDITIONER
ADA	AMERICANS W/ DISABILITIES ACT
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CATV	CABLE TELEVISION
CH	COUNTER HEIGHT
COND	CONDUIT
CU	COPPER OR CONDENSER UNIT
DISC	DISCONNECT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
J	JUNCTION
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY
KCMIL	THOUSAND OF CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LTG	LIGHTING
MCM	THOUSANDS OF CIRCULAR MILS
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTION
MCU	MASTER OR MOTOR CONTROL UNIT
MH	METAL HALIDE
MLO	MAIN LUG ONLY
N	NEUTRAL
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS.
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
O.C.	ON CENTER
P	POLE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RTU	ROOF TOP UNIT
S	SMOKE DETECTOR
SPEC	SPECIFICATION
SS	SYPER SAVER OR STAINLESS STEEL
TBB	TELEPHONE/COMPUTER TERMINAL BOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHERPROOF

LIGHTING

- 4' SURFACE MOUNTED 18.7W LED (LITHONIA WL4-20L-E21-LP840-EL14L)
- LED WALL MOUNTED PIT LIGHT FIXTURE (LITHONIA XWMLED)
- WALL MOUNTED LIGHT FIXTURE (LITHONIA WSTMLED-1A-40K-120-PE)
- CEILING MOUNTED EXIT SIGN WITH BATTERY BACKUP - (MATCH EXISTING)
- EMERGENCY LIGHT WITH BATTERY BACKUP - (MATCH EXISTING)

SWITCHES

$ₐ SINGLE POLE SWITCH - TOGGLE TYPE - MOUNT 48" AFF. SUBSCRIPT INDICATES AS FOLLOWS:
(a) FIXTURES CONTROLLED BY SWITCH
(3) 3-WAY
(4) 4-WAY

SERVICE AND DISTRIBUTION

- FUSED DISCONNECT SWITCH
- BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED

POWER

- DUPLEX GFI RECEPTACLE, 18" AFF
- HOME RUN

DATA/COMMUNICATION

- DATA/COMM OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANGE JUNCTION BOX 18"AFF UNLESS NOTED OTHERWISE. EXTEND 1" CONCEALED CONDUIT TO ABOVE ACCESSIBLE CEILING AND STUB-OUT WITH PLASTIC BUSHING OR AS NOTED. INSTALL PULL WIRE

MISCELLANEOUS

- SHEET NOTE CALLOUT
- REVISION REFERENCE
- CEILING MOUNTED FIRE ALARM SMOKE DETECTOR.

GENERAL NOTES

1. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT TO BE INSTALLED BY OTHER TRADES.
2. MULTIWIRE BRANCH CIRCUITS IN A SINGLE CONDUIT RUN SHALL BE ALLOWED. WIRE SIZES MIGHT REQUIRE UPSIZING FOR CONDUITS CONTAINING MORE THAN 3 CONDUCTORS, AS REQUIRED BY THE DERATING GUIDELINES OF ARTICLE 310.15 IN THE 2008 NEC.
3. BRANCH CIRCUIT FEEDER WIRE AND CONDUIT SIZES ARE INDICATED ON PANEL SCHEDULES.
4. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL EQUIPMENT.
5. OWNER SHALL HAVE FINAL APPROVAL OF LIGHT FIXTURE SELECTION.
6. FIRE ALARM DESIGN BY OTHERS. CONTRACTOR SHALL PROVIDE AND SUBMIT FULL SET OF FIRE ALARM DRAWINGS, DESIGNED, SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER.
7. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL.

SPECIFICATIONS

GENERAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (N.E.C.) ALL LOCAL CODES, ORDINANCES, REGULATIONS AND UTILITY POWER AND TELEPHONE COMPANY STANDARDS.
2. ALL WIRE SHALL BE COPPER TYPE "THHN" FOR SIZES UP TO #8 AND TYPE "THW FOR #6 AND LARGER (UNLESS OTHERWISE NOTED). MINIMUM WIRE SIZE SHALL BE #12 AWG.
3. ALL BRANCH AND FEEDER CIRCUITS SHALL CONTAIN A SEPARATE GROUNDING CONDUCTOR AND SHALL BE SIZED AND BONDED IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
4. ALL CONDUIT INSTALLED IN INTERIOR LOCATIONS SHALL BE TYP E.M.T. WITH STEEL SET SCREW CONNECTORS AND COUPLINGS. ALL CONDUIT INSTALLED IN EXTERIOR LOCATIONS, ABOVE GRADE, SHALL BE GALVANIZED RIGID CONDUIT. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUITS SHALL BE CONCEALED.
5. CONTRACTOR TO COORDINATE THE LOCATION OF RECEPTACLES, CONTROL CIRCUITS, COMMUNICATIONS AND DATA OUTLETS, LIGHTING FIXTURES AND DEVICES WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. DRAWINGS ARE DIAGRAMMATIC - CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL AND STRUCTURAL DRAWINGS AND FIELD CONDITIONS FOR ALL DIMENSIONS.
7. CONTRACTOR SHALL OBTAIN AND FURNISH ALL PERMITS REQUIRED. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND TOOLS TO PERFORM ALL WORK NECESSARY FOR THE COMPLETE EXECUTION OF THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS. PROVIDE WORK NOT SPECIFICALLY SHOWN OR SPECIFIED, YET REQUIRED TO INSURE PROPER AND COMPLETE OPERATION OF ALL SYSTEMS AND TO SATISFY THE DESIGN INTENT IN THE WORK AND TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
8. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCATIONS OF SWITCHES PANEL BOARDS, CONDUITS AND OTHER WORK. PRIOR FIELD VERIFICATION OF ALL DIMENSION IS REQUIRED. CONDUIT RUNS AND GROUNDING ARE SHOWN DIAGRAMMATICALLY ONLY. FIELD VERIFY ACTUAL ROUTING OF CONDUITS.
9. ANY PENETRATIONS MADE THROUGH A FIRE RATED ASSEMBLY SHALL BE PROPERLY SEALED TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY PER U.L. AND NFPA.
10. THE WORK SHALL INCLUDE REVISIONS, DEMOLITION, MODIFICATIONS AND REWORK OF THE EXISTING FACILITY AND SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW WORK, AND FOR CONNECTIONS BETWEEN EXISTING WORK AND NEW WORK WHERE REQUIRED. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ELECTRICAL POWER AND CONTROL CIRCUITS, FOR DEVICES AND EQUIPMENT THAT ARE TO REMAIN IN SERVICE, IF THE CIRCUITS ARE BROKEN BY DEMOLITION WORK, OR BY THE REMOVAL OR CUTTING OF EXISTING BUILDING CONSTRUCTION, EXISTING DEVICES OR EQUIPMENT. EXISTING CONDUIT WIRING SHALL BE REROUTED AND CONNECTED WHERE NECESSARY.
11. EACH BIDDER SHALL INSPECT THE SITE AS REQUIRED FOR KNOWLEDGE OF EXISTING CONDITIONS PRIOR TO BIDDING AND FAILURE TO OBTAIN SUCH KNOWLEDGE SHALL NOT RELIEVE THE SUCCESSFUL BIDDER OF THE RESPONSIBILITY TO MEET EXISTING CONDITIONS IN PERFORMING THE WORK UNDER THIS CONTRACT.
12. WHERE NEW WORK CANNOT BE INSTALLED WITHOUT CHANGES IN EXISTING FACILITY OR SYSTEMS OR WHERE IT IS INDICATED ON DRAWINGS TO REWORK AN EXISTING INSTALLATION, THIS CONTRACT SHALL INCLUDE ALTERATIONS TO EXISTING WORK AS REQUIRED TO INSTALL NEW WORK. ADDITIONS TO THE CONTRACT COST WILL NOT BE ALLOWED BECAUSE OF THIS CONTRACTORS FAILURE TO INSPECT EXISTING CONDITIONS AT THE SITE OF THE WORK.
13. PROVIDE HACR RATED CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT.

CUTTING AND PATCHING

1. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 16 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING, PAINTING AND FINISH SHALL BE BY THE CONTRACTOR.
2. CUTTING SHALL BE DONE WITH EXTREME CARE AND IN SUCH A MANNER THAT THE STRENGTH OF THE STRUCTURE WILL NOT BE ENDANGERED. WHEREVER POSSIBLE, OPENINGS IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE BY CONCRETE SAW OR ROTARY CORE DRILL. OPENINGS IN ANY CONSTRUCTION SHALL BE CUT THE MINIMUM SIZE REQUIRED FOR THE INSTALLATION OF THE WORK. ADEQUATE PROTECTION SHALL BE PROVIDED TO PREVENT DAMAGE TO ADJACENT AREAS AND TO PREVENT DUST FROM SPREADING TO ADJACENT AREAS.
3. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE THE CIRCUITRY CONDUIT AND REWIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.
4. BEFORE ANY CUTTING, PATCHING, OR FINISHING WORK IS STARTED, DUST AND MOISTURE PROTECTION SHALL FIRST BE INSTALLED AS REQUIRED AND AS SPECIFIED IN THESE SPECIFICATIONS.
5. OPENINGS CUT IN FLOOR SHALL BE CUT BY CORE DRILLING WHERE POSSIBLE. AFTER WORK IS INSTALLED THROUGH ANY OPENING IN FLOOR, THE OPENING AROUND THE WORK SHALL BE PATCHED AND SEALED WATERTIGHT AND EPOXY OR SILICONE BASED, NON-CRACKING ELASTOMERIC SEALANT.

PAINTING

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAINTING AREAS OF CONSTRUCTION THAT ARE SCRATCHED, MARRED, OR DAMAGED BY THE NEW CONSTRUCTION. CONTRACTOR SHALL MATCH THE COLOR, TYPE AND THICKNESS OF PAINT AS PREVIOUS.

ACCEPTANCE TESTING

1. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC., TO PERMIT INSPECTION AS REQUIRED.

AS-BUILT DRAWINGS

1. THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS-BUILTS" BLUE LINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING ADDENDA AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

PROTECTION

1. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE CLEAN OF ALL WASTE MATERIALS AND RUBBISH CAUSED BY HIS WORK OR EMPLOYEES. UPON COMPLETION OF THE WORK AND AT TIMES DURING PROGRESS OF THE WORK WHEN REQUESTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM THE OPERATION, AND SHALL LEAVE THE ENTIRE BUILDING AND INVOLVED PORTIONS OF THE SITE, INSOFAR AS THE WORK OF THE CONTRACT IS CONCERNED, IN A NEAT, CLEAN, AND ACCEPTABLE CONDITION AS APPROVED BY THE ARCHITECT/ENGINEER. EQUIPMENT, LIGHTING FIXTURES, MATERIALS AND ACCESSORIES SHALL BE THOROUGHLY CLEANED OF CEMENT, PLASTER, AND OTHER MATERIALS.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANTS FURNISHINGS OR EQUIPMENT.
3. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, CURBS, GUTTERS, ETC., CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. PATCH WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.

REFRIGERATION:

REFRIGERANT PIPING SHALL BE ACR COPPER TUBING, WITH WROUGHT COPPER FITTINGS IN CONFORMANCE WITH ASTM B280.

A. JOINTS IN COPPER TUBE (REFRIGERANT SERVICE) - CUT SQUARE, BURR, CLEAN FITTING AND TUBE TO CUP DEPTH OF FITTING APPLY THIN FILM OF BRAZING FLUX TO TUBE END AND FITTING. USE SILVER SOLDER AND OXYGEN-ACETYLENE EQUIPMENT ONLY IN MAKING JOINTS. PURGE WITH NITROGEN WHEN HEATING.
B. PIPING SHALL BE SIZED AND INSTALL PER THE HEAT PUMP EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTION.
C. SUCTION LINES SHALL BE INSULATED CONTINUOUSLY WITH EXTERIOR EXPOSED SURFACES TREATED PER MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL BE ARMAFLEX OR EQUAL.

CONDENSATE DRAIN LINE:

CONDENSATE DRAIN LINES SHALL BE PROVIDED FOR AIR HANDLING UNITS. DRAIN LINES SHALL BE SCHEDULE 40 PVC.

A. DRAIN LINES SHALL BE GRADED IN THE DIRECTION OF FLOW WITH A SLOPE OF ¼" PER FOOT.
B. WATER SEALS SHALL BE PROVIDED IN THE CONDENSATE DRAIN FROM UNIT. THE DEPTH OF SEAL SHALL BE EQUAL TO THE TOTAL STATIC PRESSURE RATING OF THE UNIT TO WHICH THE SEAL IS CONNECTED. WATER SEALS SHALL BE CONSTRUCTED TO TWO TEES AND AN APPROPRIATE U-BED WITH THE OPEN END TO EACH TEE PLUGGED, HANDTIGHT.
C. ROUTE DRAIN LINE INTO OUTSIDE FRENCH DRAIN OR SPLASH BLOCK.

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△1 5/15/15 BUILDING DEPARTMENT COMMENTS

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SEAL
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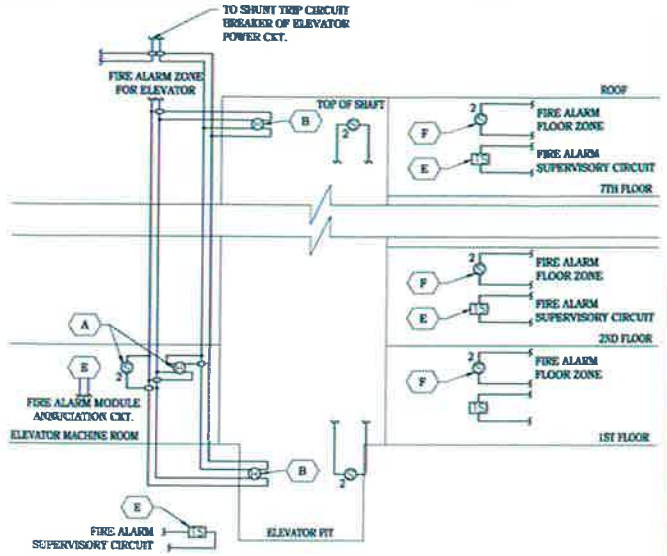
A NEW (ELEVATOR ADDITION) FOR:
DISCOVERY CENTER
701 NE SANCHEZ AVENUE
OCALA, FLORIDA, 34470

project no. 1502
by JBA
date 05.15.15
sheet no. MEP-1
NORTH
BID DOCUMENTS



NOTES:

1. DERIVE POWER FOR FLASHING WARNING LIGHT FROM VISUAL ALARM CIRCUIT IN FIRE ALARM CONTROL PANEL.
2. COORDINATED HEAT DETECTOR SHALL BE FIXED TEMPERATURE 135 DEG F & SPRINKLER HEAD SHALL BE 286 DEG F.
3. INITIATION OF ELEVATOR LOBBY, TOP OF SHAFT, OR MACHINE ROOM SMOKE DETECTOR LOOP SHALL PLACE ELEVATOR CONTROL INTO PHASE 1 RECALL MODE & RETURN ELEVATOR TO DESIGNATED SAFE PLACE.

LEGEND:

A. MOKE DETECTOR AND 135 DEG F FIXED TEMPRATURE HEAT DETECTOR IN ELEVATOR MACHINE ROOM.

B. SHUNT TRIP CONTACT-TYPICAL (AUXILIARY CONTACT IN HEAT DETECTOR).

C. FLASHING WARNING LIGHT LOCATED ADJACENT TO ELEVATOR "PHASE 1" RECALL SWITCH (WHERE REQUIRED).

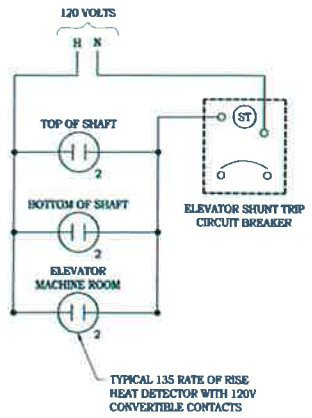
D. FLASHING WARNING LIGHTS LOCATED IN ELEVATOR CAB.

E. FIRE SPRINKLER VALVE TAMPER SWITCH.

F. DUAL CONTACT SMOKE DETECTOR LOCATED IN ELEVATOR LOBBY.

ELEVATOR FIRE ALARM DETAIL

N.T.S.

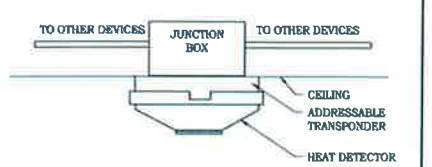


NOTES:

1. 120 VOLT ELEVATOR SHUTDOWN CIRCUIT SHALL BE MONITORED AT THE FIRE ALARM PANEL VIA AN ALARM RELAY. IF LOSS OF POWER OCCURS AN AUDIBLE ALARM SHALL ACTIVATE AT THE FIRE ALARM PANEL INDICATING LOSS OF POWER AT THIS CIRCUIT.
2. UPON ACTIVATION OF ELEVATOR SHAFT HEAT DETECTOR, POWER TO ELEVATOR SHALL SHUTDOWN PRIOR TO THE APPLICATION OF WATER.

TYPICAL ELEVATOR SHAFT POWER SHUTDOWN DETAIL

N.T.S.



HEAT DETECTOR DETAIL

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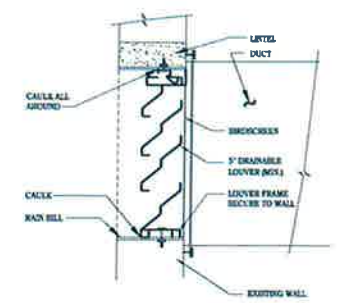

M1 TYPICAL WALL LOUVER DETAIL

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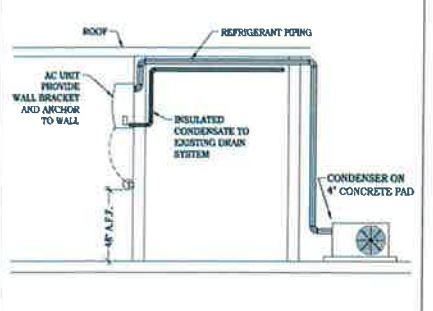


M2 DUCTLESS SPLIT SYSTEM

N.T.S.

EXISTING SERVICE PEAK LOAD CALCULATION

JANUARY 2015	41.2 KVA
DECEMBER 2014	37.6 KVA
NOVEMBER 2014	36.6 KVA
OCTOBER 2014	40.4 KVA
SEPTEMBER 2014	**44.8 KVA**
AUGUST 2014	**40.8 KVA**
JULY 2014	39.6 KVA
JUNE 2014	43.6 KVA
MAY 2014	33.2 KVA
APRIL 2014	36.0 KVA
MARCH 2014	49.6 KVA
FEBRUARY 2014	41.6 KVA
JANUARY 2014	23.2 KVA

SERVICE LOAD CALCULATION

EXISTING SERVICE	44.8 KVA x 125% =	56.0 KVA
NEW LOADS		139 KVA
TOTAL :		195 KVA
		469 AMPS

LOUVER SCHEDULE

PROVIDE LOUVERS AS MANUFACTURED BY GREENHECK MODEL EBH-601D. LOUVER SHALL BE 6' DRAINABLE ALL ALUMINUM. PAINT TO MATCH EXISTING FINISH. ALL LOUVERS TO MEET CURRENT MIAMI-DADE HURRICANE STANDARDS. SIZE LOUVER AS SHOWN BELOW IF NOT SPECIFIED ON DRAWINGS).

CFM	LOUVER SIZE
0-500	24"X16"
501-1000	36"X16"
1001-1500	48"X16"
1501-2000	72"X16"

NOTE: PROVIDE REMOVABLE INSECT SCREEN ON BACK OF LOUVER.

PANEL: EL — RATING: 800A MCB — LUG LOCATION: TOP OR BOTTOM — A.I.C.: 65,000 — SERVICE: 120/240V, 3Ø-4W — MOUNTING: SURFACE — TYPE: SQ-D OR EQUAL

CKT NO.	EQUIPMENT SERVED	KVA	CKT. BKR. POLE	CKT. BKR. TR	BRANCH CKT Ø	BRANCH CKT N	BRANCH CKT GND	BRANCH CKT C	Ø	CKT NO.	EQUIPMENT SERVED	KVA	CKT. BKR. POLE	CKT. BKR. TR	BRANCH CKT Ø	BRANCH CKT N	BRANCH CKT GND	BRANCH CKT C
1	ELEVATOR LIFT	105	3	500	SEE RISER				A	2	PIT LIGHTS	.400	1	20	12	12	12	3/4"
3									B	4								
5									C	6	PIT RECEPTACLES	.720	1	20	12	12	12	3/4"
7	ELEVATOR LIGHTS	1.00	1	20	12	12	12	3/4"	A	8	ELEV. EQUIP. RM LIGHT	.064	1	20	12	12	12	1/2"
9									B	10								
11	AC-1/CU-1	5.00	2	40	8	8	8	1"	C	12	ELEV. EQUIP. RM RECEPTACLE	.180	1	20	12	12	12	1/2"
13					8				A	14	RECEPTACLE	.180	1	20	12	12	12	1/2"
15	PANEL 'A'	44.8	3	400	SEE RISER				B	16								
17									C	18								
19									A	20								
21									B	22								
23									C	24								
25									A	26								
27									B	28								
29									C	30								

EQUIPMENT SERVED	CONN. LOAD	LF	DF	DESIGN LOAD
ELEVATOR MOTOR	105		1.25	131
LIGHTS	1.46		1.25	1.83
RECEPTACLES	1.08		1.00	1.08
HVAC	5.00		1.00	5.00
EXISTING LOADS	44.8		1.25	56.0
		TOTAL		195 KVA
		AMPS		469 A

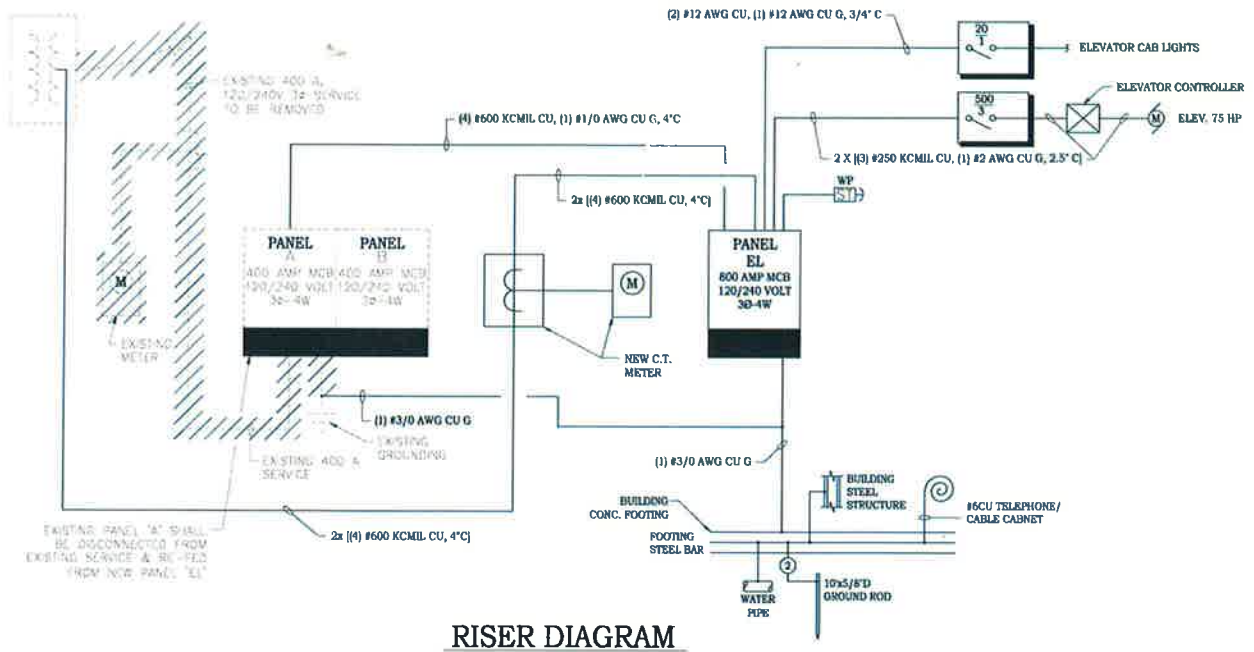
REMARKS:
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- CONTRACTOR SHALL CONFIRM HVAC CIRCUIT BREAKER REQUIREMENTS BEFORE PURCHASING.
- HI-LEG ON PHASE 'B'.

30 CIRCUIT — E-S001

MINI SPLIT UNIT SCHEDULE (DX SPLIT)

MARK	NOMINAL CFM	COOLING CAPACITY MBH	COOLING CAPACITY SEER	HEATING CAPACITY MBH	HEATING CAPACITY HSPF	VOLT/PHASE	INDOOR UNIT MCA	OUTDOOR UNIT MCA	MOCP (AMPS)	MANUFACTURER/MODEL	SERVES	NOTES
AC-1/CU-1	533	17.2	19.2	Ø	Ø	208-240/1	1	14	15	MITSUBISHI MSY-GE18NA-8/MUY-GE18NA	EQUIP. ROOM	SEE BELOW

NOTES:
1. INSTALL AND ANCHOR CONDENSER UNIT TO STRUCTURE.
2. MIN. SEER OF 16.0
3. PROVIDE 410A REFRIGERANT.
4. PROVIDE 5 YEAR WARRANTY.
5. PROVIDE SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT (INDOOR UNIT FED FROM OUTDOOR UNIT).
6. PROVIDE PROGRAMMABLE THERMOSTAT.
7. PROVIDE CONDENSATE PUMP.
8. PROVIDE LOW AMBIENT CONTROL.
9. EMS TO MONITOR ROOM TEMPERATURES.
10. PROVIDE CONDENSATE PUMP.



RISER DIAGRAM

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SEAL
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project no. 1502
by JBA | date 05.15.15
sheet no. M E P - 2

NORTH

BID DOCUMENTS

Exhibit B - Discovery Elevator and Floor Plan

Contract# FAC/260716

B - 21