

# Indian River County Tax Collector Office Expansion

1800 27th Street - Building B  
Vero Beach, FL 32960

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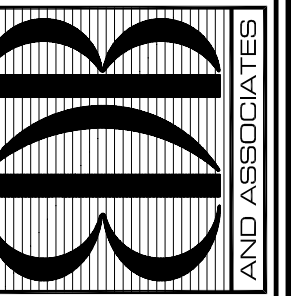
ARCHITECT



MEP



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SEAL:

PROJECT: TAX COLLECTOR OFFICE  
EXPANSION

FOR:  
INDIAN RIVER COUNTY, FLORIDA  
1800 27TH STREET - BUILDING B  
VERO BEACH, FL 32960

NO.	DATE	REVISIONS

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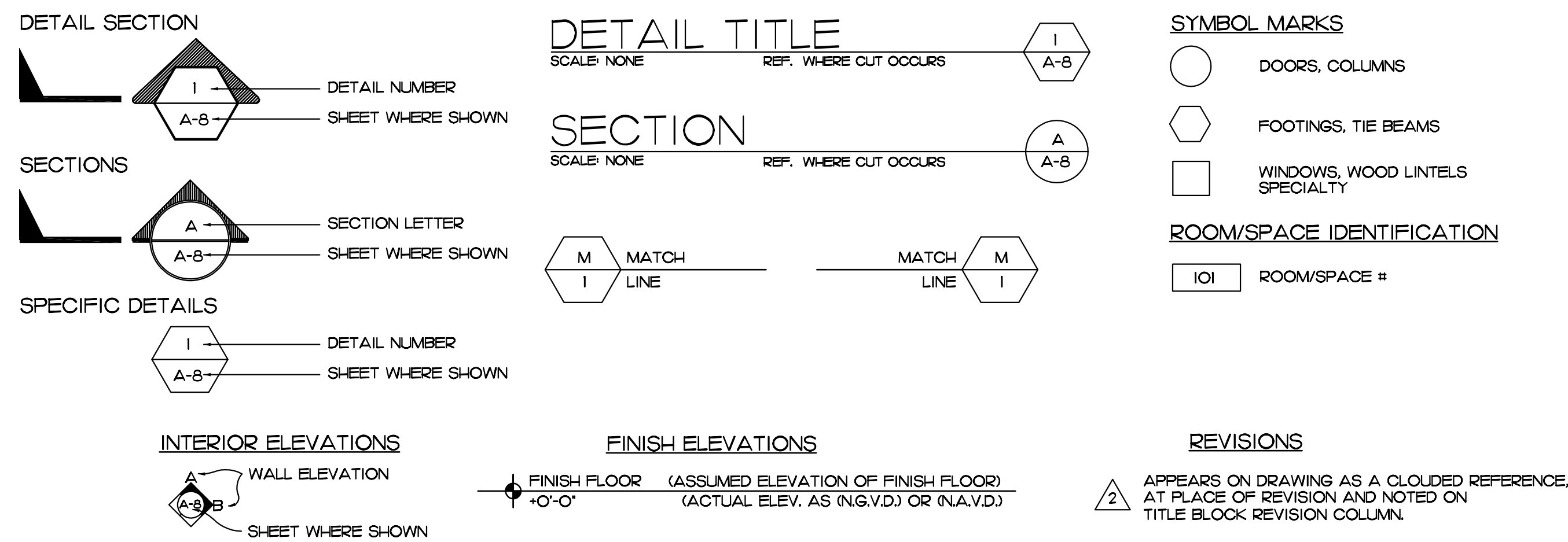
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OF ONE

## GENERAL NOTES

- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS SHOWN ON THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS IN THE FIELD. ANY DISCREPANCIES IN THE ABOVE WILL CONSTITUTE A "STOP WORK" ORDER FOR THAT PORTION OF THE CONSTRUCTION ONLY. THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY FOR RESOLUTION.
- EVERY ATTEMPT HAS BEEN MADE TO DELINEATE THE EXISTING CONDITIONS AND DETAILS. THE CONTRACTOR MUST VISIT THE SITE TO VISUALLY ESTABLISH THE COMPLETE SCOPE OF WORK AND CONDITIONS TO BE CONSTRUCTED.
- THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION SHALL BE AIA DOCUMENT A 201, 2007 EDITION, A COPY OF WHICH IS AVAILABLE FOR REVIEW AT THE ARCHITECTS OFFICE.
- THE CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 (ONE) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- THE CONTRACTOR IS TO SECURE AND PAY FOR ALL PERMITS AND SHALL SECURE THE "CERTIFICATE OF OCCUPANCY".
- THE CONTRACTOR(S) SHALL PROVIDE AND MAINTAIN COMPLETE WORKERS COMPENSATION, GENERAL LIABILITY AND BUILDERS RISK INSURANCE.
- ALL MATERIALS UTILIZED SHALL BE NEW AND OF THE QUALITY SPECIFIED. SUBSTITUTIONS WILL BE ALLOWED ONLY WITH THE ARCHITECT'S PRIOR WRITTEN APPROVAL.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MANUFACTURER'S INSTRUCTIONS AND CATALOG CUTS.
- PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL ISSUE TO THE OWNER, AN EXECUTED "FINAL RELEASE OF LIEN" FORMS FROM ALL PARTIES HAVING LIEN RIGHTS AGAINST THE OWNER.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH "BEST TRADE PRACTICES" FOR THE GEOGRAPHIC AREA IN WHICH THE PROJECT IS LOCATED.
- UNLESS WHERE NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS FOR A COMPLETE AND OPERATING PROJECT.

## LEGEND



## CONSTRUCTION ADMINISTRATION GUIDELINES

- INSPECTION REQUIREMENTS**
  - BY ARCHITECT, PRIOR TO ALL CONCRETE POURS
  - BEFORE COVERING WORK WITH DRYWALL AND PRIOR TO CEILING INSTALLATION WHEN MECHANICAL, ELECTRICAL & PLUMBING ROUGH-INS ARE COMPLETED
  - TO ESTABLISH A PUNCH LIST (WHEN CONTRACTOR HAS TOTALLY COMPLETED HIS OWN ESTABLISHED PUNCH LIST AND AFTER CERTIFICATE OF OCCUPANCY)
  - AT FINAL INSPECTION, FOLLOWING COMPLETION OF PUNCH LIST.
  - AT MONTHLY PAY REQUEST AND WEEKLY PROGRESS INSPECTIONS

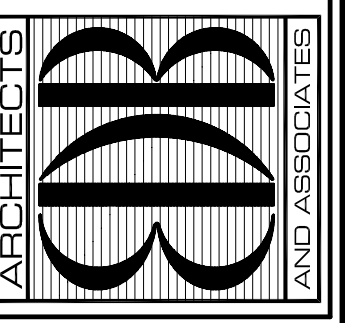
NOTE: PROJECT SUPERINTENDENT SHOULD ALWAYS BE PRESENT AT INSPECTIONS
- PAY REQUEST**
  - AS PER OWNER/ CONTRACTOR AGREEMENT UTILIZING AIA DOCUMENTS
  - LIEN RELEASES REQUIRED (PARTIALS AND FINALS)
  - FOR STORED MATERIALS - (CERTIFICATE OF INSURANCE REQUIRED)
- OTHER REQUIREMENTS OF THE CONTRACTOR**
  - BAR GRAPH SCHEDULE OF PROGRESS TIME SCHEDULE AND PERIODICALLY UPDATE, AS REQUESTED
  - A SCHEDULE OF VALUES (A.I.A. FORM #G-703)
- CONSTRUCTION PRIORITIES**
  - ESTABLISH DATE FOR THE PRECONSTRUCTION MEETING
  - CHECK OUT LONG LEAD ITEMS -- ALLOW ORDERING TIME
  - MAINTAIN CONSTRUCTION LOG DOCUMENTING RAIN DAYS WHEN SCHEDULED WORK COULD NOT BE PERFORMED.
  - MAINTAIN A MARKED UP SET OF CONSTRUCTION PLANS W/ RED BALLPOINT PEN TO BE SUPPLIED TO ARCHITECT FOR USE IN ESTABLISHING AS BUILT DRAWINGS.
- CHANGES / CORRESPONDENCE**
  - ALL CORRESPONDENCE OR DIRECTIVES THRU ARCHITECT AND COPIED TO OWNER
  - NO DIRECTIVES FROM EMPLOYEES. ALL REQUESTS FOR INFORMATION OR CHANGES THRU ARCHITECT AND OWNER
- CHANGE ORDERS**
  - PROPER PROTOCOL MUST BE FOLLOWED IN REGARDS TO ANY CHANGE ORDERS. OWNER, ARCHITECT AND CONTRACTOR MUST SIGN OFF PRIOR TO ANY WORK BEING PERFORMED BY CONTRACTOR OR SUBS.
  - GROUP ITEMS INTO ONE (1) CHANGE ORDER, RATHER THAN SEVERAL SINGLE ITEM CHANGE ORDERS.
  - ANY WORK COMPLETED PRIOR TO A CHANGE ORDER BEING SIGNED BY ALL PARTIES IS AT CONTRACTOR'S RISK. CHANGE ORDERS SHALL BE SIGNED BEFORE WORK IS COMMENCED.
- SHOP DRAWING SUBMITTALS**
  - FOUR (4) COPIES (NOTE IN RED ANY CHANGES)
    - ONE FOR OWNER
    - ONE FOR ARCHITECT
    - ONE FOR CONTRACTOR
    - ONE FOR SUPPLIER
  - CONTRACTOR TO REVIEW AND MARKUP ANY CHANGES ON ALL COPIES BEFORE SUBMITTING TO ARCHITECT. CONTRACTOR SHOULD PROVIDE HIS OR HER REVIEWERS SIGNATURE WITH DATE ON EACH SUBMITTAL.
  - SUBMIT TO ARCHITECT AS SOON AS POSSIBLE
  - NO SUBSTITUTES WITHOUT PRIOR APPROVAL BY ARCHITECT & OWNER.
- CHANGES IN THE WORK**
  - DO NOT DEVIATE FROM PLANS WITHOUT ARCHITECTS APPROVAL.
- PROPER CONDUCT AT JOBSITES**
  - NO SWEARING
  - NO LOUD RADIOS
  - PROPERLY DRESSED FOR WORK
  - KEEPING JOBSITE CLEAN AND SAFE EACH DAY IS SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - HARD-HATS ARE REQUIRED PER OSHA REGULATIONS
- RAIN DAY DOCUMENTATION**
  - SUBMIT RECORDED RAIN DAYS WITH EACH MONTHLY PAY REQUEST
  - WHEN MORE THAN FOUR (4) DAYS ARE ACCUMULATED, A REQUEST FOR CHANGE ORDER SHOULD BE ISSUED. REQUEST ADDITIONAL DAYS TO BE ADDED TO ESTABLISHED CONTRACTUAL COMPLETION DATE.

## ABBREVIATIONS

∠ AND ANGLE	EA EACH	EAST	L.G. LONG LIGHT	S. SOUTH
⊙ DIAMETER OR ROUND WELD	EB. EXPANSION BOLT	E.A. EACH	L.P. LIQUID PROPANE	S.A. SUPPLY AIR
	EEER. ENERGY EFFICIENCY RATIO	EA. EACH	L.R. LOCKER	S.A.T. SUSPENDED ACOUSTICAL TILE
	EP. EXHAUST FAN	EA. EACH	LL. LIVE LOAD	S.C. SOLID CORE
	EG. EMERGENCY GENERATOR	EA. EACH	LLV. LONG LEG VERTICAL	S.C.D. SEAT COVER DISPENSER
	EJ. EXPANSION JOINT	EA. EACH	L.S.C. LATCH SIDE CLEARANCE	SC-ED. SCHEDULE
	EL. ELEVATION	EA. EACH	L.T. LAUNDRY TUB	SD. SOAP DISPENSER
	EL. EMERGENCY LIGHT	EA. EACH		SECT. SECTION
	ELEC. ELECTRICAL	EA. EACH		SH. SHELF
	ELEV. ELEVATOR	EA. EACH		SH-R. SHOWER
	EMER. EMERGENCY	EA. EACH		SH-T. SHEET
	ENCL. ENCLOSURE	EA. EACH		SH SINGLE HUNG
	EP. ELECTRICAL PANELBOARD	EA. EACH		SH-S. SIMILAR
	EQ. EQUAL	EA. EACH		SHD. CONC. SEALED CONCRETE
	EQU. EQUIPMENT	EA. EACH		SLV. SHORT LEG VERTICAL
	ESP. ELECTRO STATIC PAINT	EA. EACH		SNR. SANITARY NAPKIN DISPENSER
	EW. EACH WAY	EA. EACH		SNR. SANITARY NAPKIN RECEPTACLE
	EWC. ELECTRIC WATER COOLER	EA. EACH		SPEC. SPECIFICATION
	EWH. ELECTRIC WATER HEATER	EA. EACH		SQ. SQUARE
	EXP. EXPANSION	EA. EACH		S.S. STAINLESS STEEL
	EXP.BLTS. EXPANSION BOLTS	EA. EACH		S.S.K. SERVICE SINK
	EX. EXISTING	EA. EACH		STA. STATION
	EXT. EXTERIOR OR EXTENSION	EA. EACH		STD. STANDARD
		EA. EACH		STL. STEEL
		EA. EACH		STR. STRUCTURAL
		EA. EACH		SUSP. SUSPENDED
		EA. EACH		SYM. SYMMETRICAL
		EA. EACH		S4S. SANDED 4 SIDES
		EA. EACH		SISZE. SANDED ONE SIDE AND TWO EDGES
		EA. EACH		SS. SANITARY SEWER
		EA. EACH		SEER. SEASONAL ENERGY EFFICIENCY RATED
		EA. EACH		SH SINGLE HUNG
		EA. EACH		SLD.G. GL.S. SLIDING GLASS
		EA. EACH		S/D SMOKE DETECTOR
		EA. EACH		S.Y.P. SOUTHERN YELLOW PINE
		EA. EACH		SK. SQUARE FOOT DIMENSION
		EA. EACH		S.F. SQUARE FOOT
		EA. EACH		S.L.I. STEEL JOIST INSTITUTE
		EA. EACH		SYS. SYSTEM
		EA. EACH		S.V. SHEET VINYL
		EA. EACH		T.T. TREAD
		EA. EACH		T.B. TOWEL BAR
		EA. EACH		T.O.C. TOP OF CURB
		EA. EACH		TEL. TELEPHONE
		EA. EACH		TERR. TERRAZZO
		EA. EACH		TGG. TONGUE AND GROOVE
		EA. EACH		T&K. TOP OF PAVEMENT
		EA. EACH		T.O.P. TOP OF PAVEMENT
		EA. EACH		TPD. TOILET PAPER DISPENSER
		EA. EACH		T.V. TELEVISION
		EA. EACH		T.W. TOP OF WALL
		EA. EACH		T&B. TACKBOARD
		EA. EACH		T.C.L. TIME CLOCK
		EA. EACH		TYP. TYPICAL
		EA. EACH		T.C. TOP CHORD
		EA. EACH		T.O.B. TOP OF BEAM
		EA. EACH		T.L. TOTAL LOAD
		EA. EACH		T.S.V. TRANSVERSE
		EA. EACH		T. TREAD
		EA. EACH		T.S. TUBE SECTION
		EA. EACH		UNF. UNFINISHED
		EA. EACH		UNQ. UNLESS NOTED OTHERWISE
		EA. EACH		L.C. UNDER COUNTER
		EA. EACH		LL. UNDERWRITERS LAB.
		EA. EACH		U.S.G. UNITED STATES GYPSUM
		EA. EACH		U.S.G.B.C. UNITED STATES GREEN BUILDING COUNCIL
		EA. EACH		VAC. VACUUM
		EA. EACH		V.B. VAPOR BARRIER
		EA. EACH		V.C.T. VINYL COMPOSITION TILE
		EA. EACH		VERT. VERTICAL
		EA. EACH		V.P. VAPOR PROOF
		EA. EACH		V.R. VAPOR RETARDER
		EA. EACH		V.T.R. VENT THRU ROOF
		EA. EACH		W. WEST
		EA. EACH		W. WASH-ER
		EA. EACH		W. WITH
		EA. EACH		W.C. WATER CLOSET
		EA. EACH		W.D. WOOD
		EA. EACH		W/O. WITHOUT
		EA. EACH		WP. WATERPROOF
		EA. EACH		WSCT. WAINSCOT
		EA. EACH		WT. WEIGHT
		EA. EACH		WS-R. WASHER
		EA. EACH		W.J.C. WALK IN CLOSET
		EA. EACH		W.G. WALL GIRDER
		EA. EACH		W.W.F. WELDED WIRE FABRIC
		EA. EACH		W.W.M. WELDED WIRE MESH
		EA. EACH		W.P. WORKING POINT
		EA. EACH		WDW. WINDOW
		EA. EACH		W. WEST
		EA. EACH		W. WASH-ER
		EA. EACH		W. WITH
		EA. EACH		W.C. WATER CLOSET
		EA. EACH		W.D. WOOD
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		EA. EACH		W.W.F. WELDED WIRE FABRIC
		EA. EACH		W.W.M. WELDED WIRE MESH
		EA. EACH		W.P. WORKING POINT
		EA. EACH		WDW. WINDOW

SOME TERMS AND SYMBOLS MAY NOT APPLY TO THIS PROJECT.

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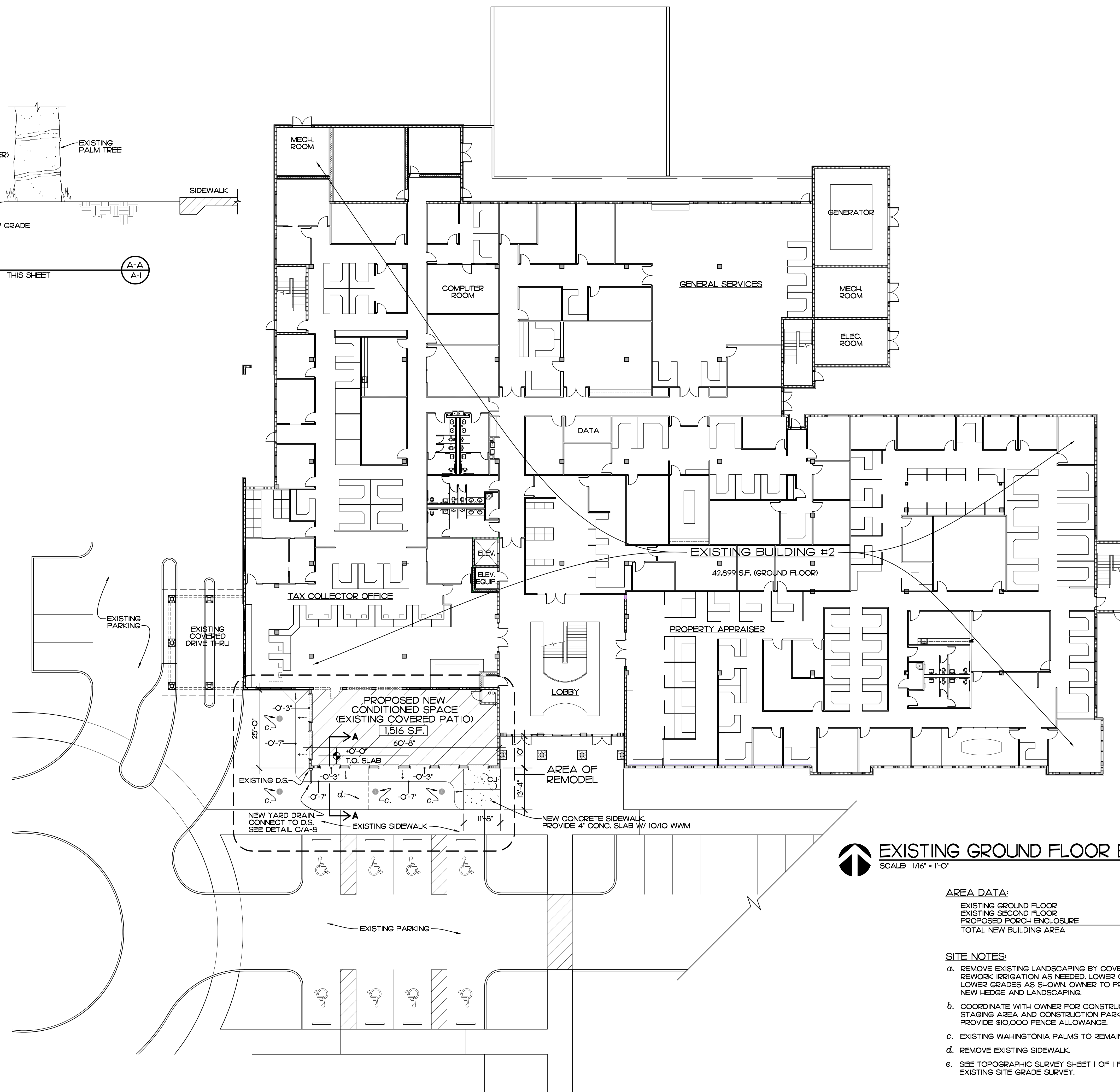
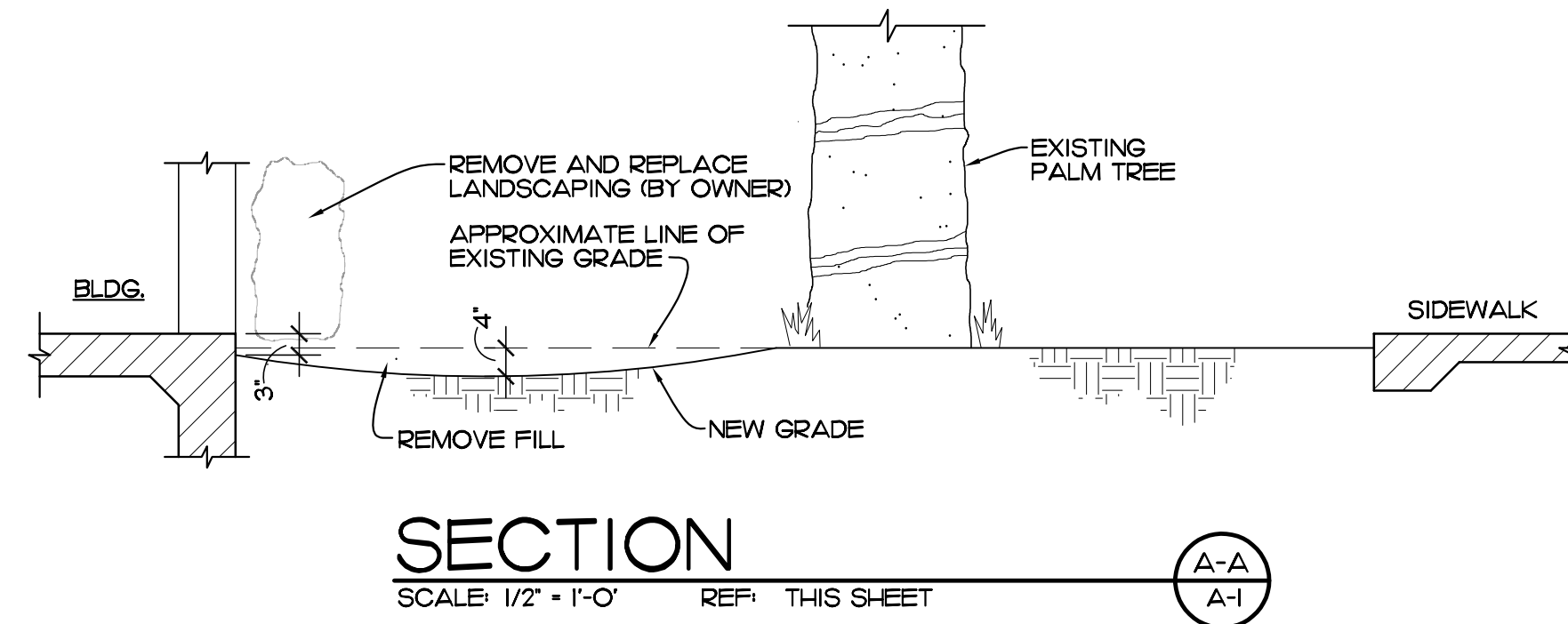
PROJECT: TAX COLLECTOR OFFICE  
 EXPANSION  
 INDIAN RIVER COUNTY, FLORIDA  
 1900 27TH STREET - BUILDING B  
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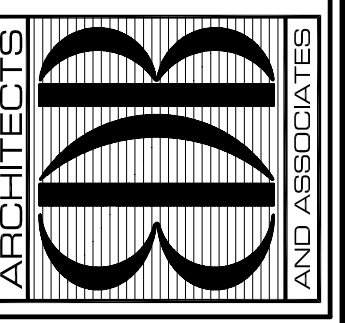
**EXISTING GROUND FLOOR BUILDING PLAN**  
SCALE: 1/16" = 1'-0" (BUILDING 2) "B"

**AREA DATA:**

EXISTING GROUND FLOOR	42,899 S.F.	80,207 S.F.
EXISTING SECOND FLOOR	37,371 S.F.	
PROPOSED PORCH ENCLOSURE	1,516 S.F.	
TOTAL NEW BUILDING AREA	81,723 S.F.	

- SITE NOTES:**
- REMOVE EXISTING LANDSCAPING BY COVERED PATIO. REWORK IRRIGATION AS NEEDED. LOWER GRADES LOWER GRADES AS SHOWN. OWNER TO PROVIDE NEW HEDGE AND LANDSCAPING.
  - COORDINATE WITH OWNER FOR CONSTRUCTION STAGING AREA AND CONSTRUCTION PARKING. PROVIDE \$10,000 FENCE ALLOWANCE.
  - EXISTING WASHINGTONIA PALMS TO REMAIN.
  - REMOVE EXISTING SIDEWALK.
  - SEE TOPOGRAPHIC SURVEY SHEET 1 OF 1 FOR EXISTING SITE GRADE SURVEY.

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SHEET NO.  
**A-1**  
OF NINE

**DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

**NOTES**

- a. WINDOWS TO BE REMOVED
- b. EXISTING DOOR AND FRAME TO BE REMOVED
- c. EXISTING ARCH-WAY ABOVE TO REMAIN
- d. EXISTING MASONRY WALL TO BE REMOVED UP TO UNDERSIDE OF BEAM ABOVE
- e. EXISTING ABI DESK TO BE REMOVED
- f. REMOVE HEDGE MATERIAL
- g. SAW OUT AND REMOVE 8" OF PARTITION BLOCK BASE DOWN TO FOOTING BELOW. SEE DETAIL 1/A-7
- h. CUT BACK SLAB 4" AND REMOVE SLAB. SEE DETAIL 1/A-7 FOR CONSTRUCTION DETAIL.
- j. REMOVE SOD AND REGRADE. SEE SHEET A-1
- k. EXISTING CONC. COLUMNS TO REMAIN

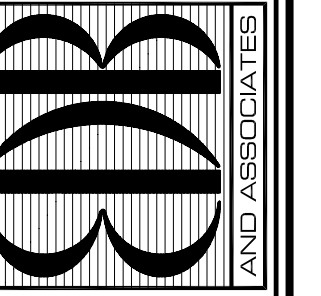
AREA OF REMODEL

REMOVE EXISTING TILE FLOOR, EXISTING SLAB TO BE REUSED. PROTECT FROM DAMAGE

EXISTING FIRE RISER TO REMAIN

EXISTING SIDEWALK

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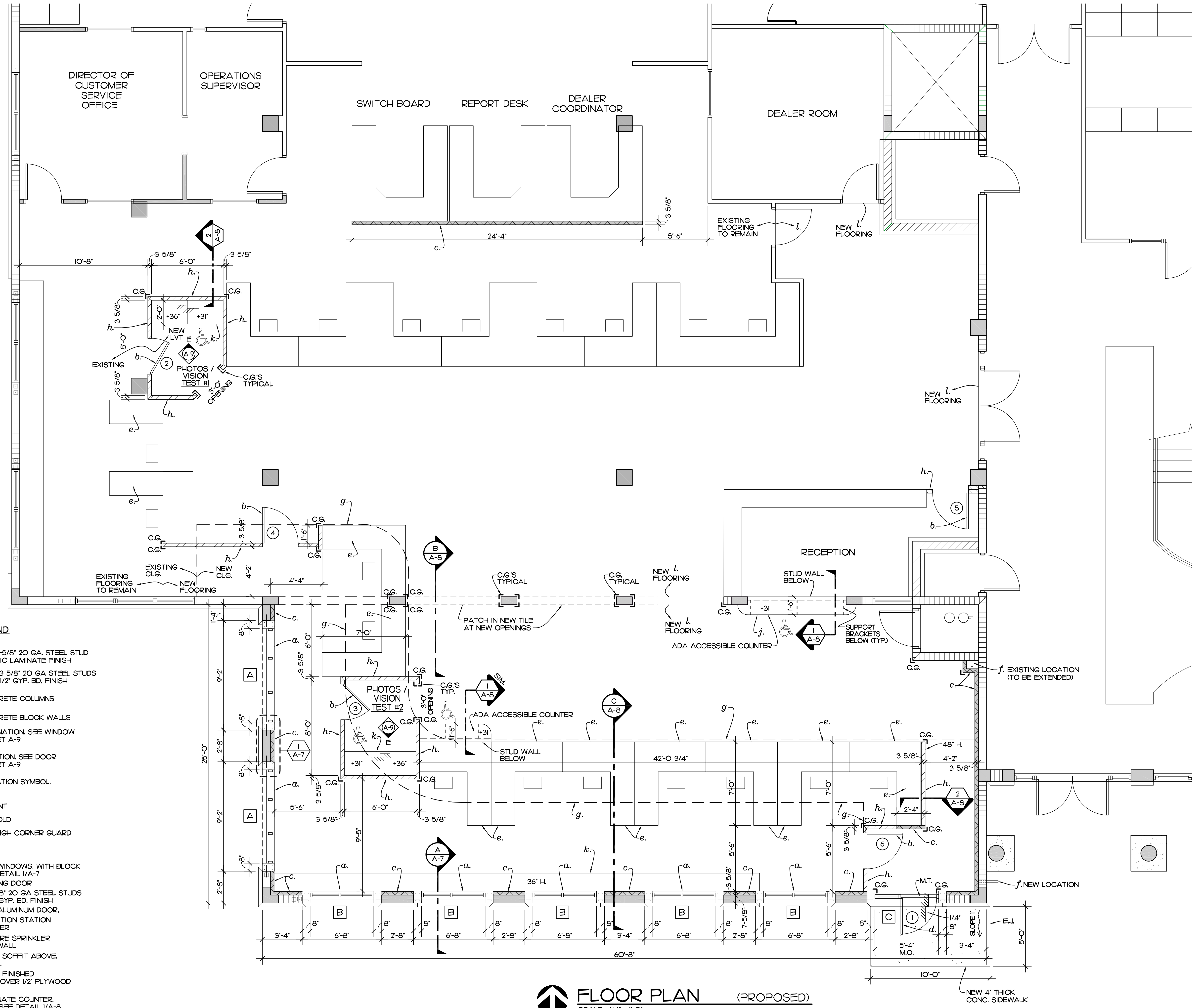
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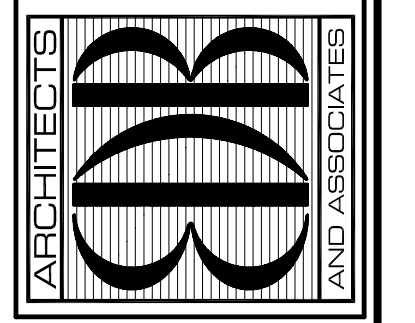
SHEET NO.  
**A-2**  
OF NINE



- LEGEND**
- NEW 48" HIGH 3-5/8" 20 GA. STEEL STUD WALL W/ PLASTIC LAMINATE FINISH
  - NEW FULL HGT. 3 5/8" 20 GA STEEL STUDS AT 16" OC WITH 1/2" GYP. BD. FINISH
  - EXISTING CONCRETE COLUMNS
  - EXISTING CONCRETE BLOCK WALLS
  - WINDOW DESIGNATION. SEE WINDOW SCHEDULE SHEET A-9
  - DOOR DESIGNATION. SEE DOOR SCHEDULE SHEET A-9
  - INTERIOR ELEVATION SYMBOL. SEE SHEET A-9
  - E.J. EXPANSION JOINT
  - M.T. METAL THRESHOLD
  - C.G. ACROTYN 48" HIGH CORNER GUARD
- NOTES**
- a. NEW STOREFRONT WINDOWS, WITH BLOCK WALL BELOW SEE DETAIL 1/A-7
  - b. NEW 4'-0" HIGH SWING DOOR
  - c. NEW FULL HGT. 3 5/8" 20 GA STEEL STUDS AT 16" OC WITH 1/2" GYP. BD. FINISH
  - d. NEW STOREFRONT ALUMINUM DOOR.
  - e. NEW ABI WORK STATION STATION FURNITURE, BY OWNER
  - f. EXTEND EXISTING FIRE SPRINKLER LINE TO EXTERIOR WALL
  - g. NEW 8'-0" DRYWALL SOFFIT ABOVE. SEE SECTION C/A-8.
  - h. NEW 48" HIGH WALL FINISHED PLASTIC LAMINATE OVER 1/2" PLYWOOD SEE DETAIL 2/A-8
  - j. NEW PLASTIC LAMINATE COUNTER. (ADA ACCESSIBLE) SEE DETAIL 1/A-8
  - k. NEW 24" WIDE PLASTIC LAMINATE COUNTER AT +36" A.F.F.
  - l. NEW LVT FLOORING

**FLOOR PLAN (PROPOSED)**  
 SCALE: 1/4" = 1'-0"  
 NOTE: FIELD VERIFY ALL DIMENSIONS

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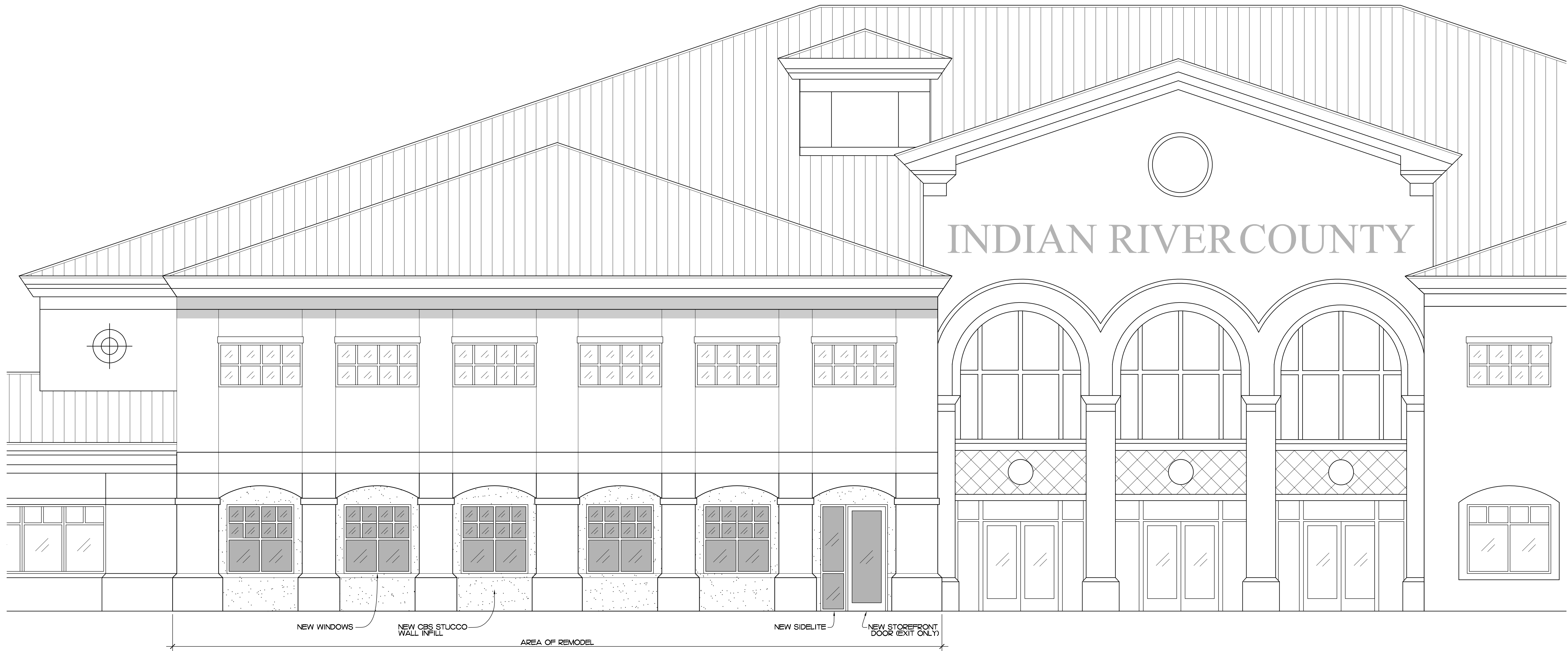
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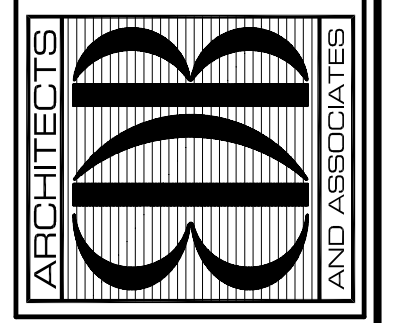
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SHEET NO.  
**A-3**  
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**SOUTH ELEVATION** (PROPOSED)  
 SCALE 1/4" = 1'-0"

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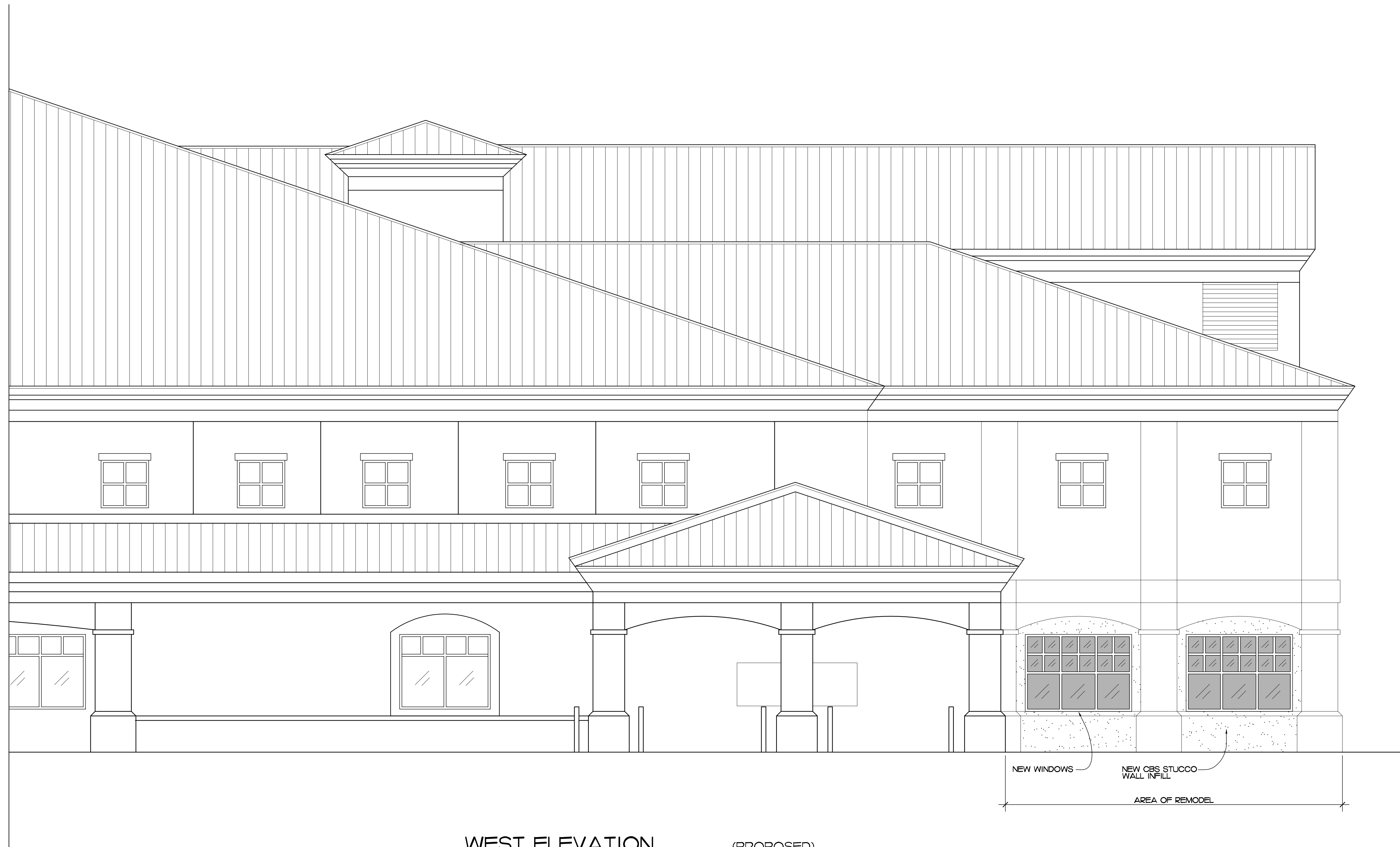
FOR:  
 INDIAN RIVER COUNTY, FLORIDA  
 1800 27TH STREET - BUILDING B  
 VERO BEACH, FL 32960

NO.	DATE	REVISIONS

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 CH'KD: JFB

SHEET NO.  
**A-4**  
 OF NINE

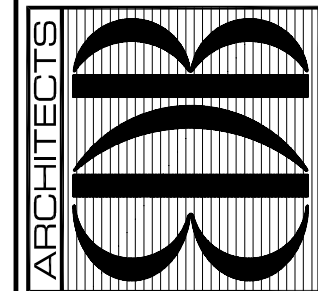


**WEST ELEVATION** (PROPOSED)  
SCALE: 1/4" = 1'-0"

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FOR: INDIAN RIVER COUNTY, FLORIDA  
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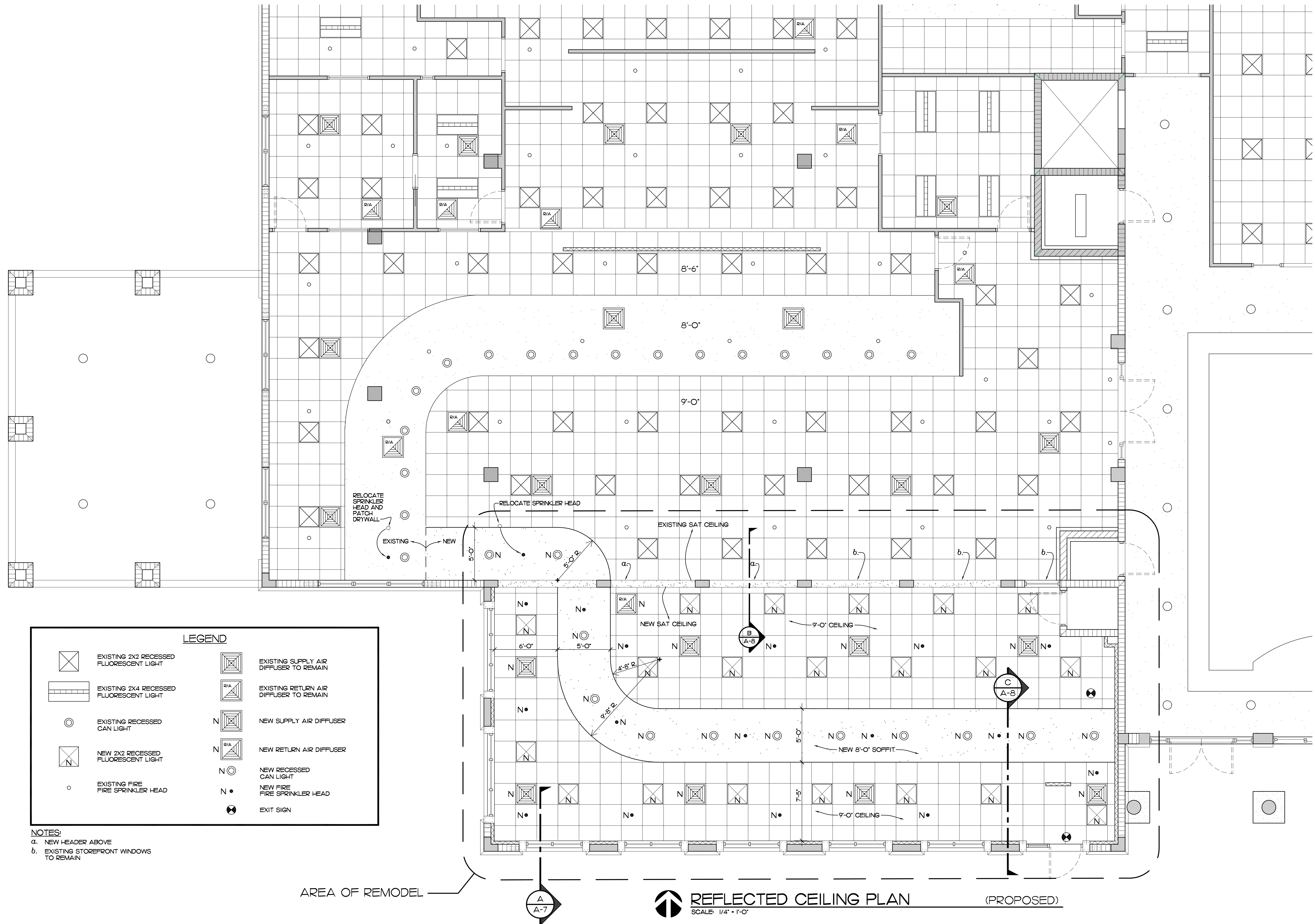
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SHEET NO.  
**A-5**  
OF NINE



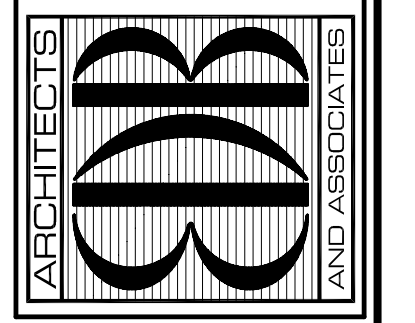
**LEGEND**

	EXISTING 2X2 RECESSED FLUORESCENT LIGHT		EXISTING SUPPLY AIR DIFFUSER TO REMAIN
	EXISTING 2X4 RECESSED FLUORESCENT LIGHT		EXISTING RETURN AIR DIFFUSER TO REMAIN
	EXISTING RECESSED CAN LIGHT		NEW SUPPLY AIR DIFFUSER
	NEW 2X2 RECESSED FLUORESCENT LIGHT		NEW RETURN AIR DIFFUSER
	EXISTING FIRE SPRINKLER HEAD		NEW RECESSED CAN LIGHT
			NEW FIRE SPRINKLER HEAD
			EXIT SIGN

**NOTES:**  
 a. NEW HEADER ABOVE  
 b. EXISTING STOREFRONT WINDOWS TO REMAIN

**REFLECTED CEILING PLAN** (PROPOSED)  
 SCALE: 1/4" = 1'-0"

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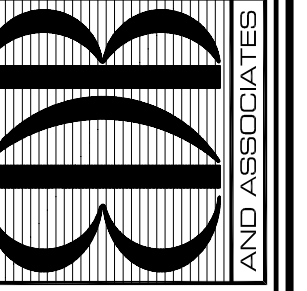
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SHEET NO.  
**A-6**  
 OF NINE





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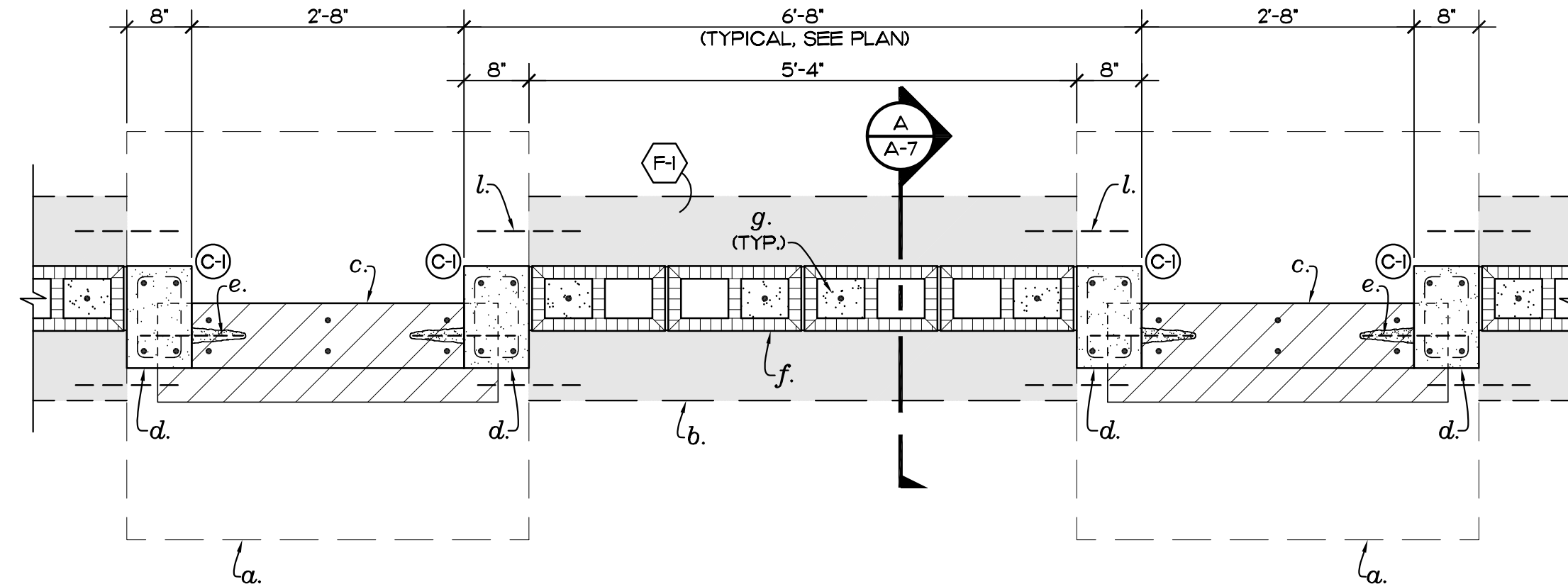
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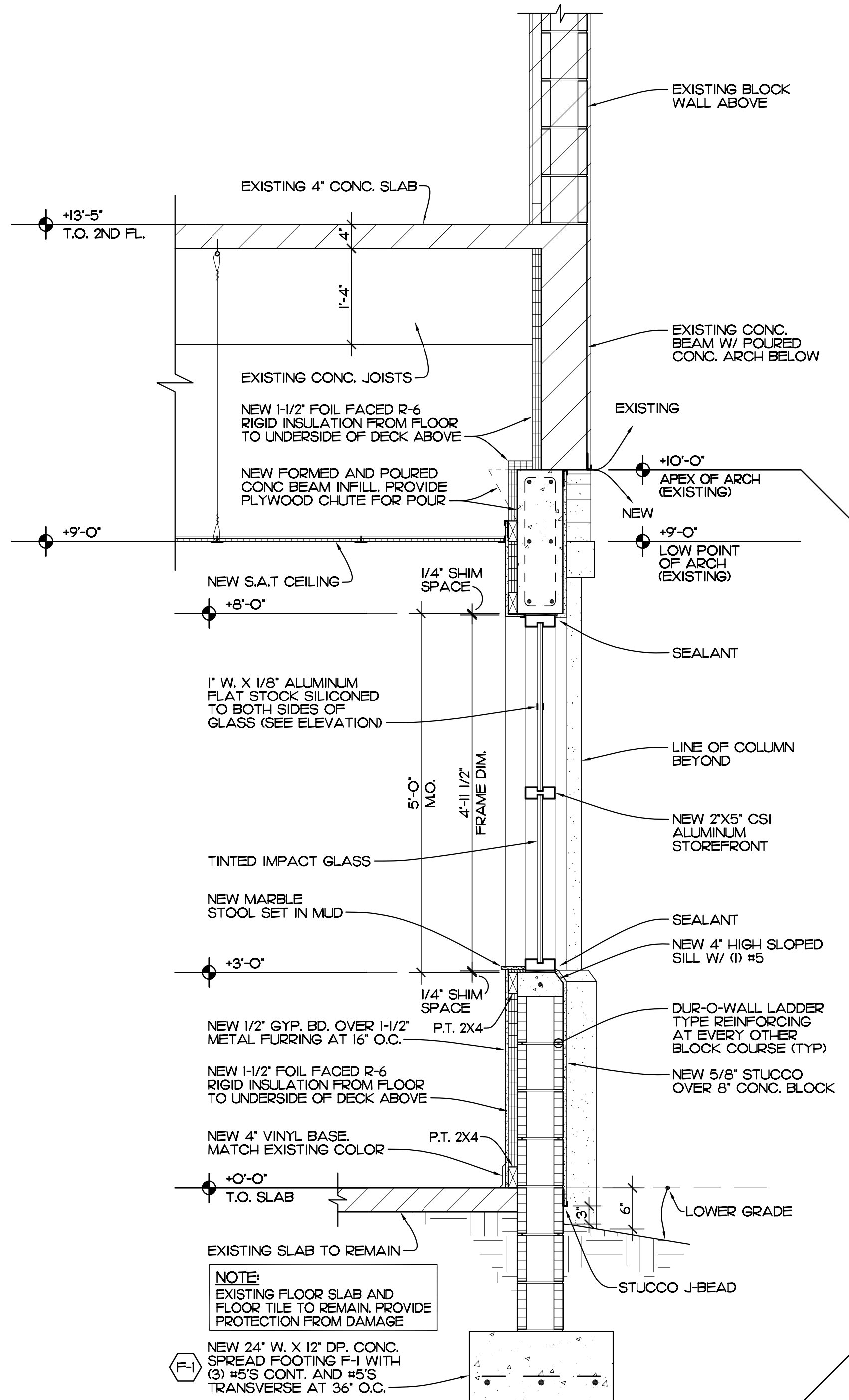
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SHEET NO.  
**A-7**  
 OF NINE



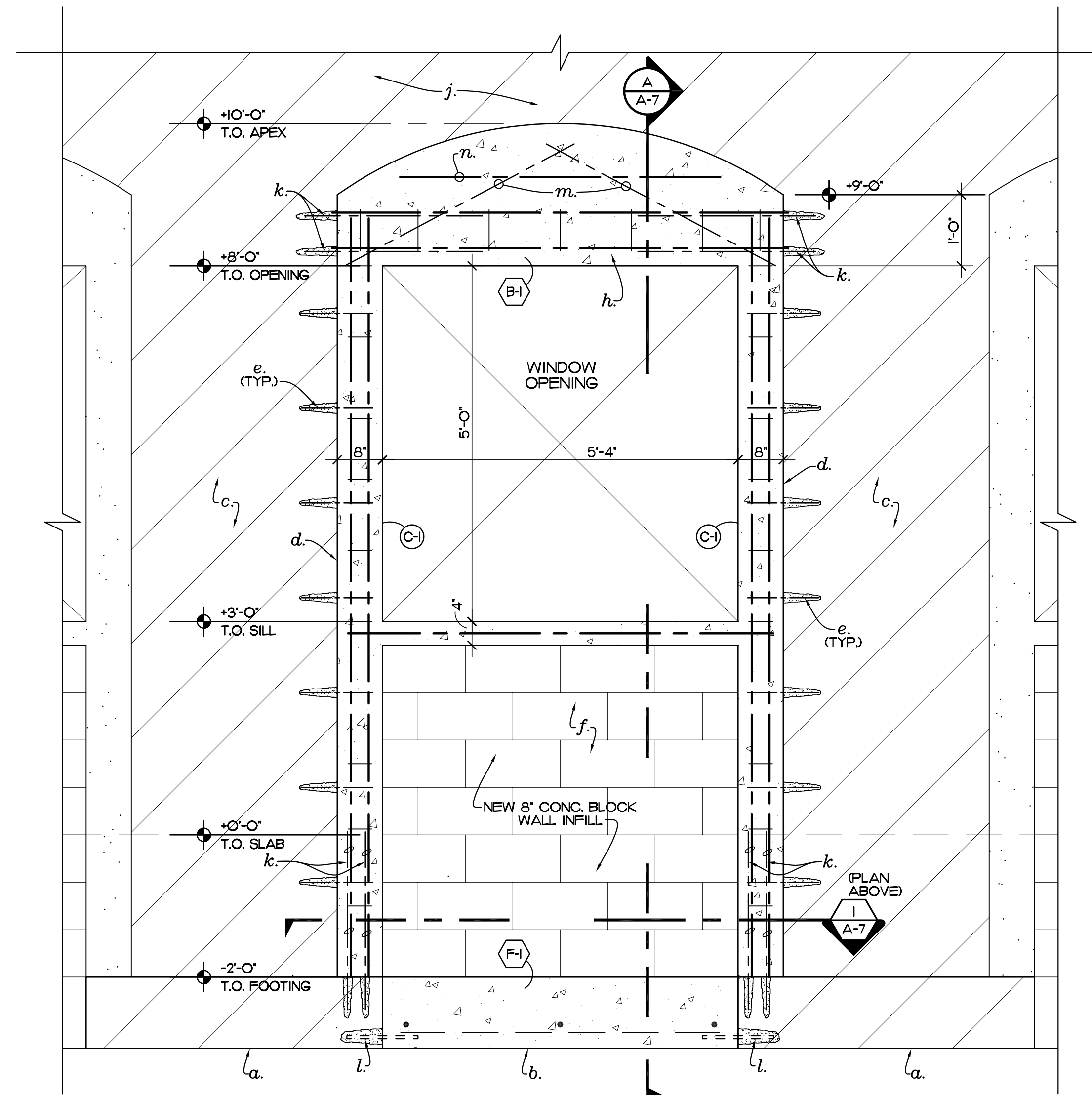
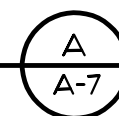
**PLAN AT WALL INFILL**  
 SCALE: 3/4" = 1'-0" REF. SHEETS A-3 AND S-1, DETAIL 2/A-7

- (C) COLUMN DESIGNATION, SEE WALL INFILL ELEVATION 2/A-7 BELOW.
- (F-1) FOOTING DESIGNATION, SEE SECTION A/A-7 FOR FOOTING SIZE AND REINFORCEMENT.



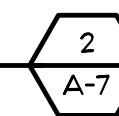
**SECTION**

SCALE: 3/4" = 1'-0" REF. SHEETS A-2 AND A-7



**WALL INFILL ELEVATION (TYPICAL)**

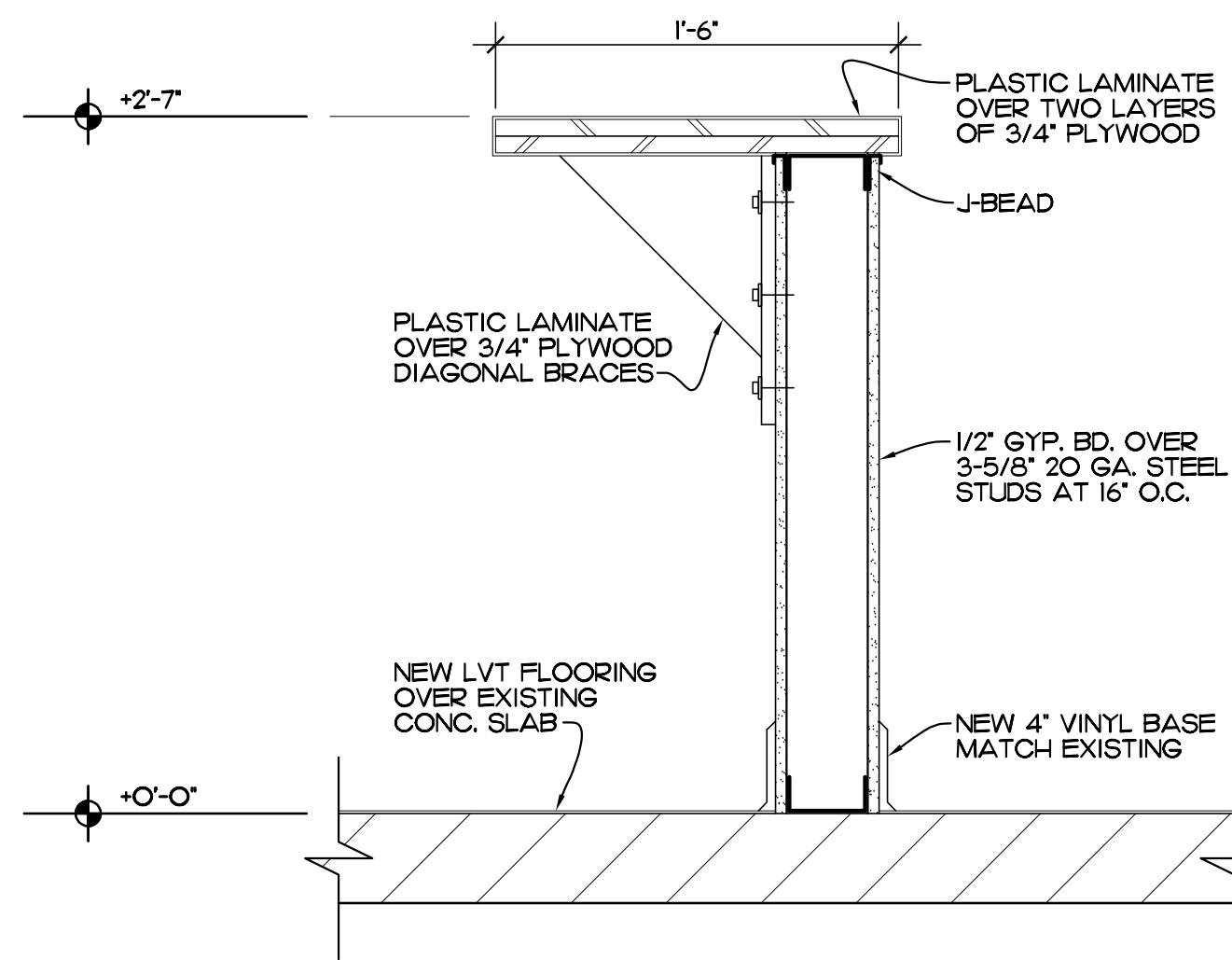
SCALE: 3/4" = 1'-0" REF. SECTION A/A-7



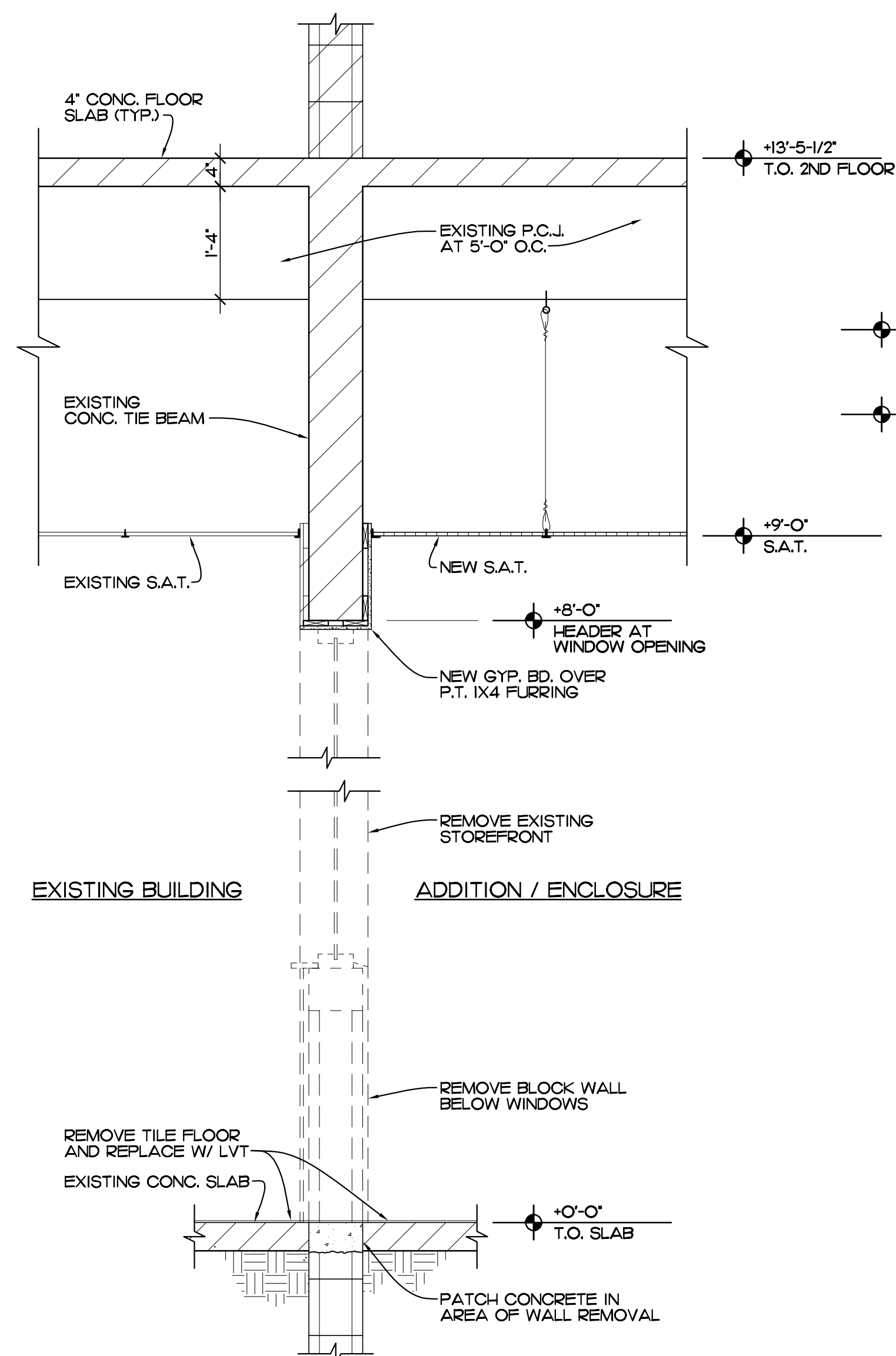
- (C) CONCRETE COLUMN
- (C) 8"X12" CONCRETE COLUMN W/ (4) #5'S VERTICAL AND #3 TIES AT 12" O.C. (TYP.)

**WALL ELEVATION PLAN NOTES:**

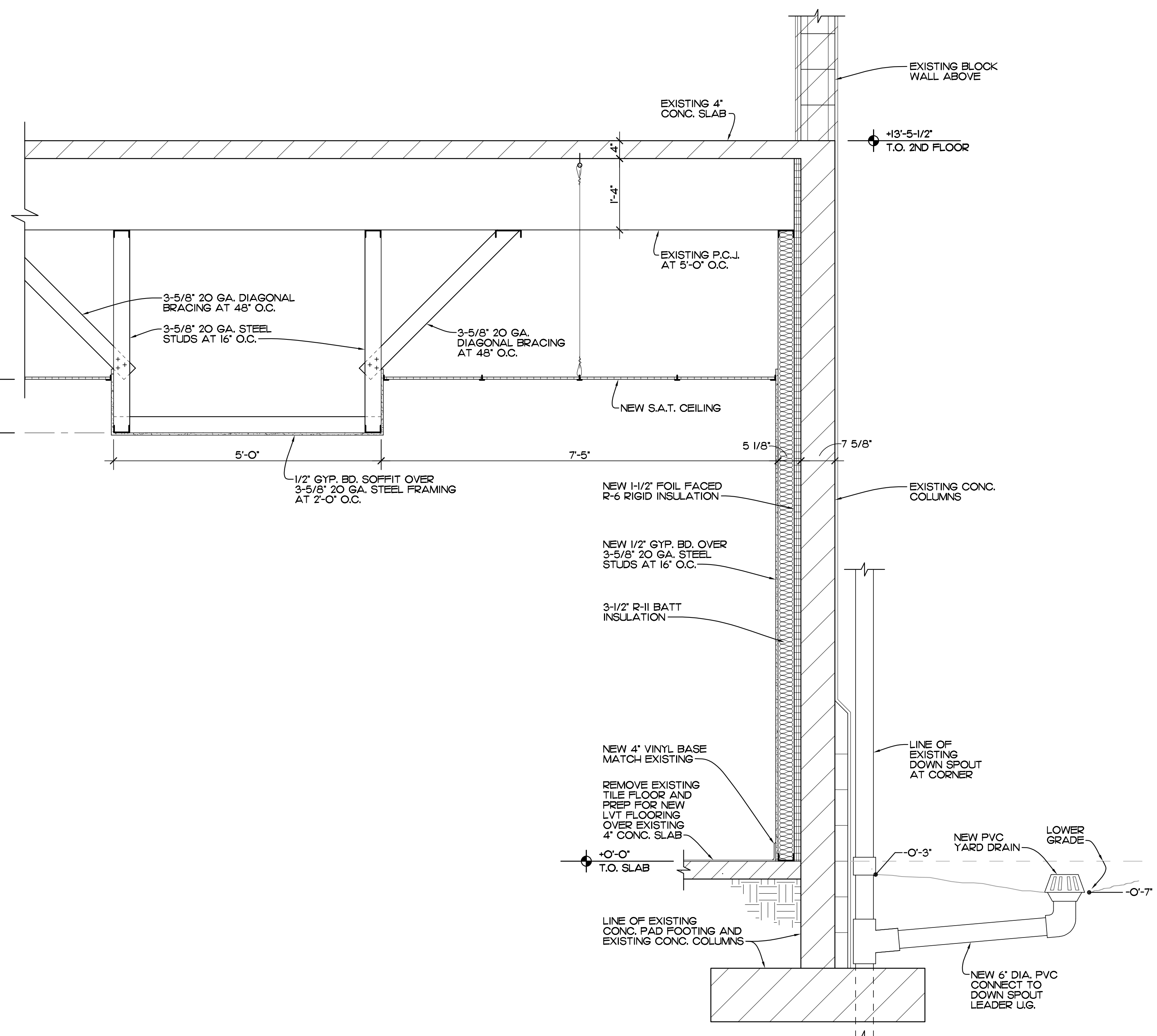
- a. EXISTING 4'-0" X 4'-0" X 1'-0" DEEP CONC. PAD FOOTING.
- b. NEW 24" W. X 12" DEEP CONC. FOOTING.
- c. EXISTING 8"X32" CONC. COLUMN.
- d. NEW 8"X12" CONC. COLUMN.
- e. 12" LONG #5 DOWEL DRILLED AND EPOXY GROUTED 6" DEEP INTO EXISTING COL. AT 16" O.C.
- f. NEW 8" CONC. BLOCK WALL INFILL.
- g. #5 VERTICAL IN CONC. FILLED CELL (NEW)
- h. NEW FORMED AND Poured CONC. BEAM ARCH INFILL.
- j. EXISTING 8" X 4" DEEP CONC. BEAM AND ARCH ABOVE.
- k. (4) #5'S 2'-6" LONG DOWELS DRILLED AND EPOXY GROUTED 6" DEEP INTO EXISTING CONC. PAD FOOTING OR COLUMN.
- l. (3) #5' DOWELS 12" LONG DRILLED AND EPOXY GROUTED 6" DEEP INTO EXISTING CONC. PAD FOOTING.
- m. (2) #5'S DIAGONAL.
- n. (2) #5'S TOP.



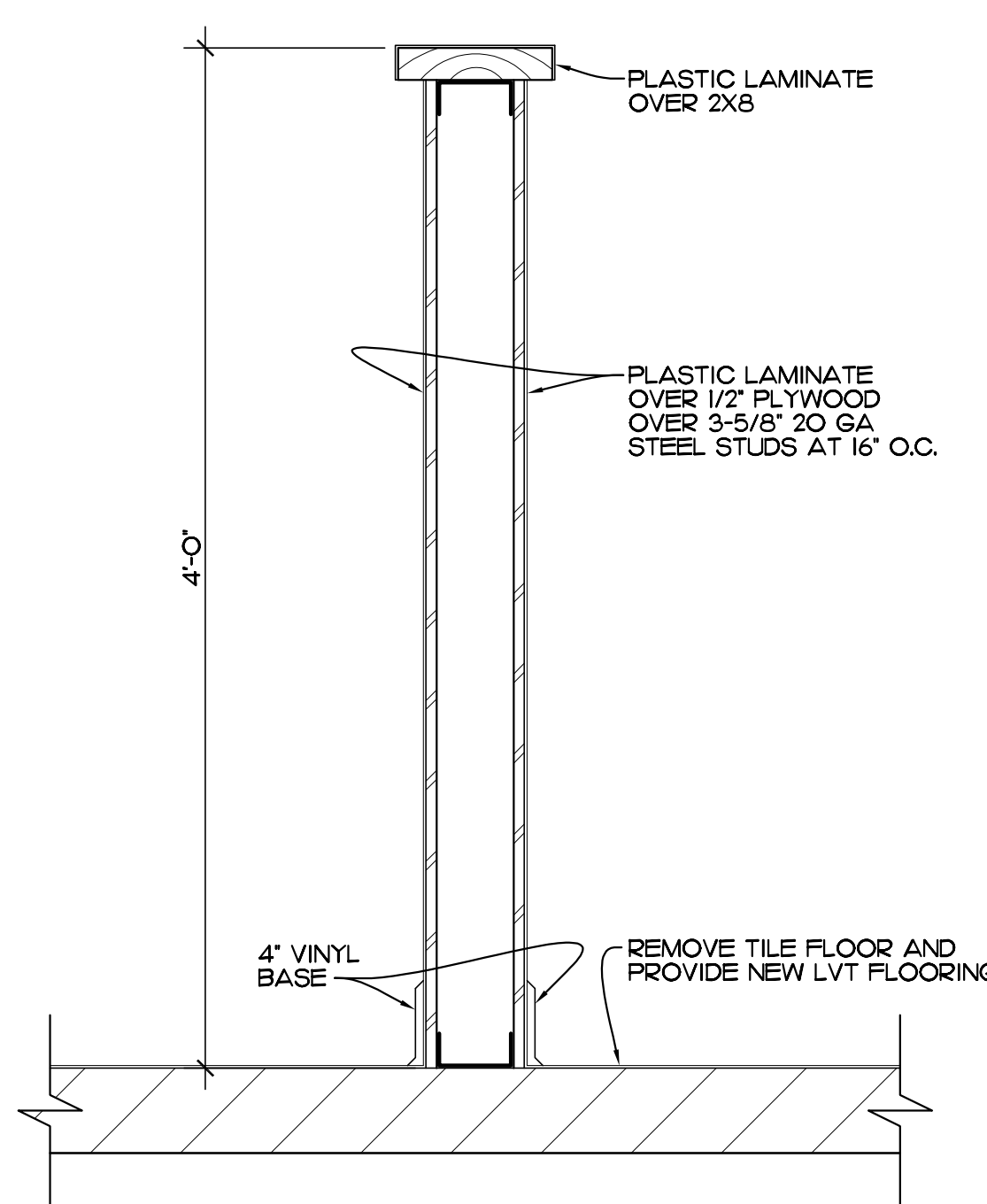
**DETAIL 1**  
SCALE: 1/2" = 1'-0" REF. SHEET A-3 ACCESSIBLE COUNTER



**SECTION B**  
SCALE: 3/4" = 1'-0" REF. SHEET A-3

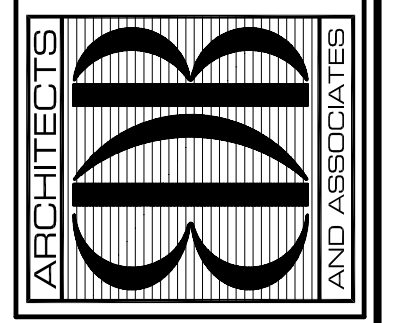


**SECTION C**  
SCALE: 3/4" = 1'-0" REF. SHEET A-3



**DETAIL 2**  
SCALE: 1/2" = 1'-0" REF. SHEET A-3

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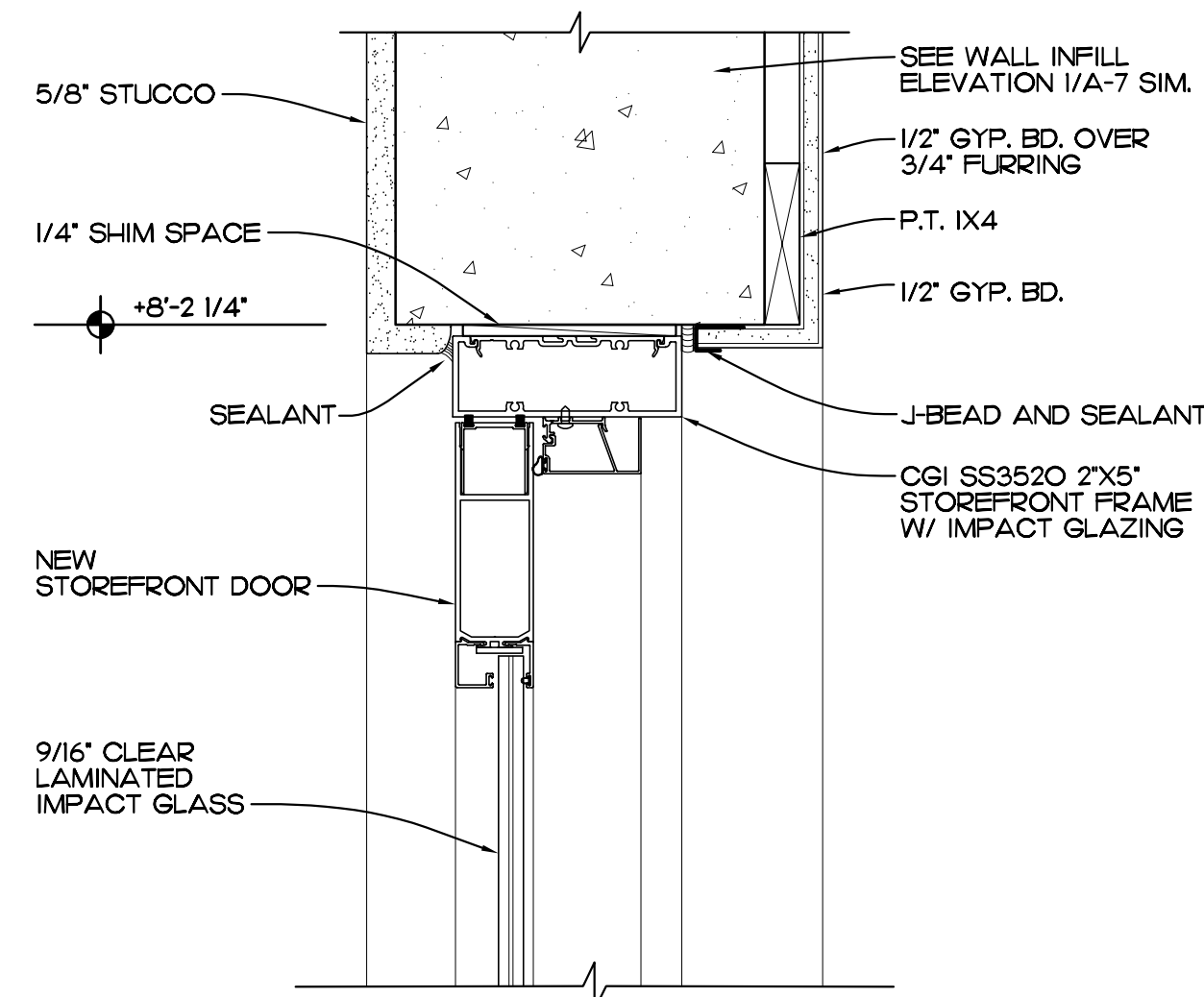
PROJECT: TAX COLLECTOR OFFICE  
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FOR: INDIAN RIVER COUNTY, FLORIDA  
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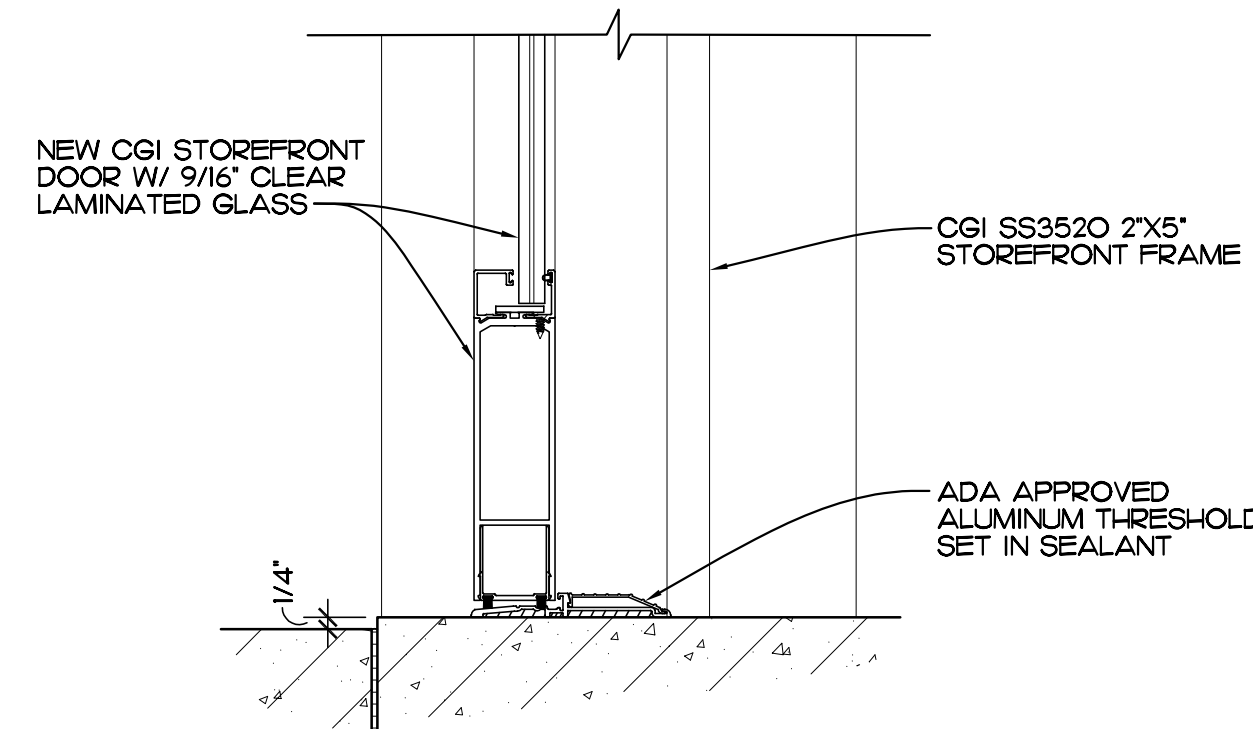
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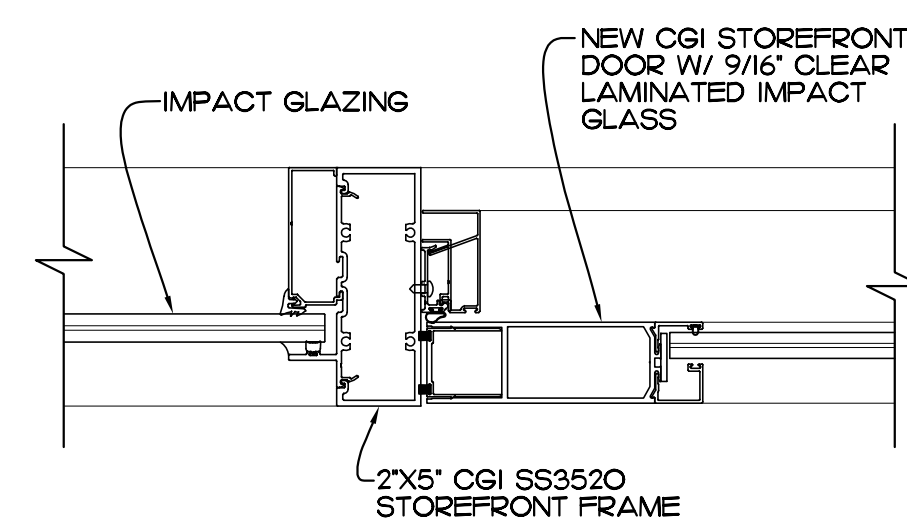
SHEET NO.  
**A-8**  
OF NINE



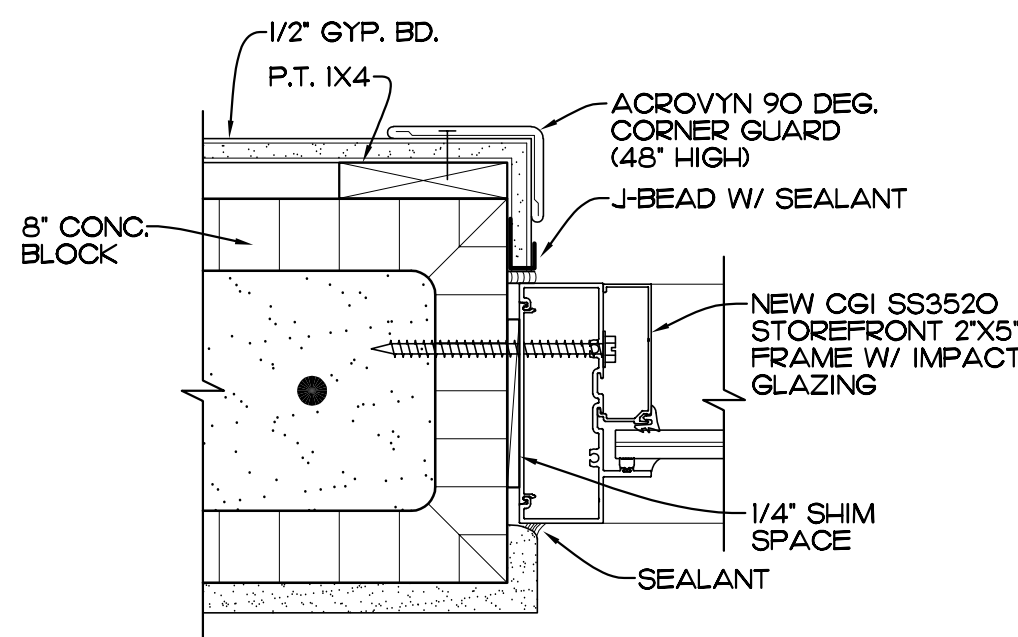
**HEAD / JAMB (SIM.)**  
SCALE: 3" = 1'-0" REF. DOOR SCHED. THIS SHEET



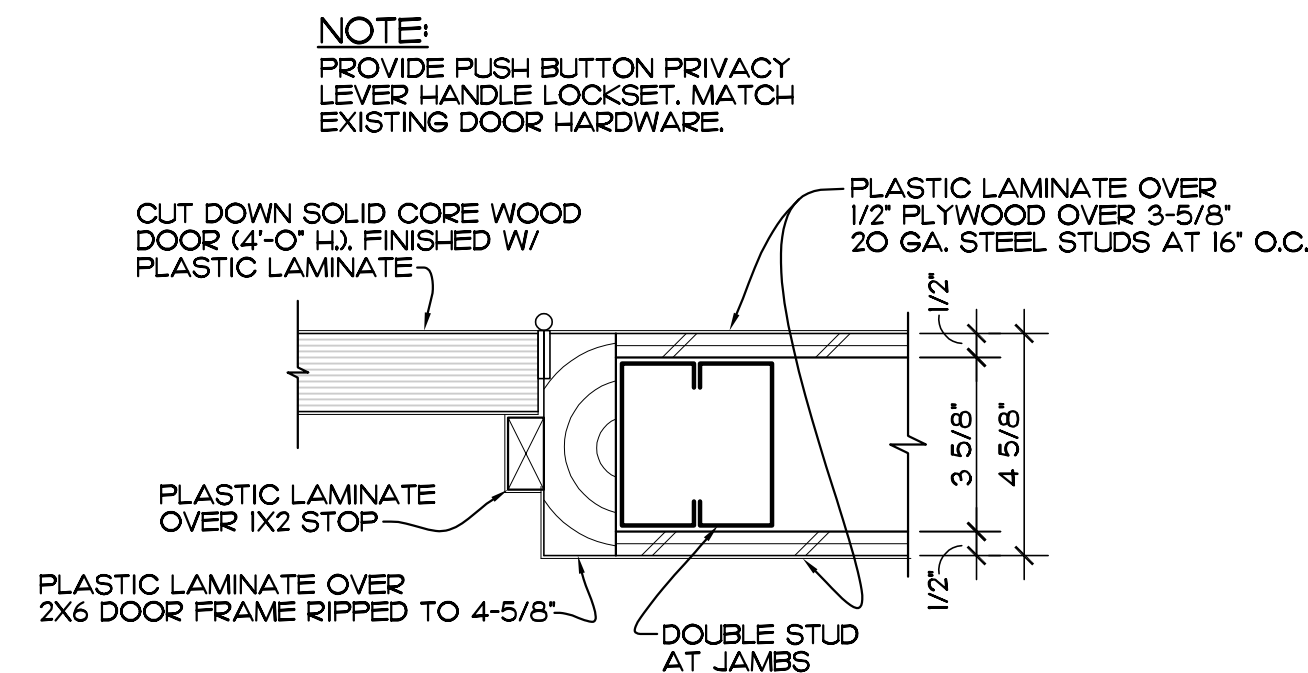
**THRESHOLD**  
SCALE: 3" = 1'-0" REF. DOOR SCHED. THIS SHEET



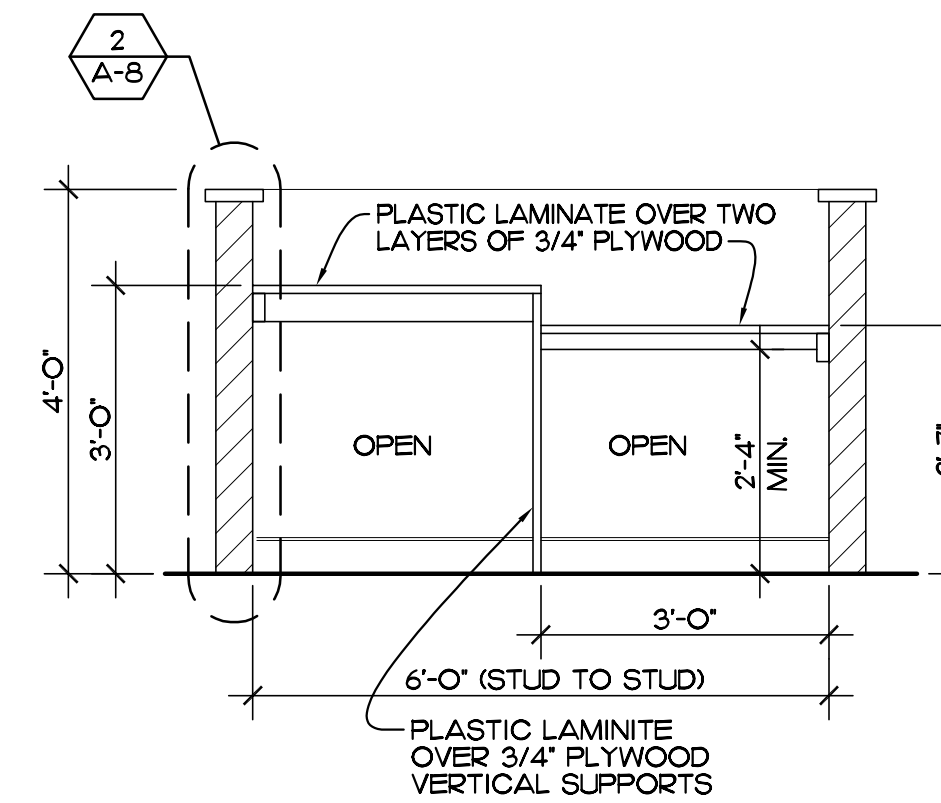
**JAMB**  
SCALE: 3" = 1'-0" REF. DOOR SCHED. THIS SHEET



**JAMB / HEAD SIM.**  
SCALE: 3" = 1'-0" REF. DOOR SCHED. THIS SHEET



**JAMB DETAIL (AT GATES)**  
SCALE: 3" = 1'-0" REF. DOOR SCHED. THIS SHEET



**VISION TEST BOOTHS #1 AND #2**

**INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"

**DOOR SCHEDULE** MATCH EXISTING STOREFRONT FINISH (DARK BRONZE)

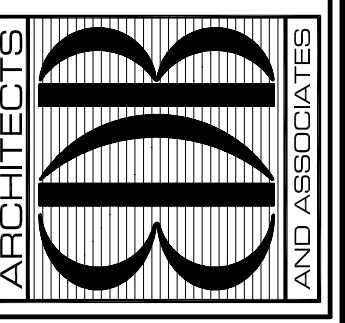
MARK	SIZE	DESCRIPTION	JAMB	DETAIL	REMARKS
1	3'-0" W. X 8'-0" H. X 1-3/4"	CGI 2'X5' 3520 STOREFRONT DOOR W/ IMPACT GLASS	ALUMINUM	1, 2, 3, /A-9	PROVIDE SOLARBRONZE TINTED IMPACT GLASS
2, 3, 4	3'-0" W. X 4'-0" H. X 1-3/4"	CUT DOWN SOLID CORE WOOD COVER WITH PLASTIC LAMINATE	PLASTIC LAM. OVER IX3	5 /A-9	PROVIDE DOOR HARDWARE PASSAGE SET / HINGES

NOTE: COORDINATE KEYING WITH OWNER.

**WINDOW SCHEDULE** MATCH EXISTING FINISH (DARK BRONZE)

MARK	SIZE	MANUFACTURER	TYPE	DETAILS	SILL	REMARKS
A	7'-9" W X 5'-0" H	CGI SS3520 2'X5' STOREFRONT W/ TINTED IMPACT GLASS	FIXED STOREFRONT	A/A-7 4/A-9 SIMILAR	MARBLE	PROVIDE SOLARBRONZE TINTED IMPACT GLASS
B	5'-4" W X 5'-0" H					
C	2'-0" W X 8'-0" H					

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EXPANSION  
INDIAN RIVER COUNTY, FLORIDA  
1800 27TH STREET - BUILDING B  
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SHEET NO.  
**A-9**  
OF NINE

**LIFE SAFETY DATA**

FLORIDA BUILDING CODE 2020 SEVENTH EDITION

FBC 306 OCCUPANCY CLASSIFICATION - "B" BUSINESS

**APPLICABLE CODES:**

- A. FLORIDA BUILDING CODE 2020 SEVENTH EDITION
- B. NFPA 101 LIFE SAFETY CODE 6TH EDITION 2018
- C. MECHANICAL CODE (FBC 2020)
- D. PLUMBING CODE (FBC 2020)
- E. ENERGY CONSERVATION CODE (FBC 2020)
- F. NATIONAL ELECTRICAL CODE, 2017 EDITION
- G. ACCESSIBILITY CODE (FBC 2020)

**PROJECT DESCRIPTION**

THIS PROJECT IS AN INDIAN RIVER COUNTY ADMINISTRATIVE OFFICE BUILDING COVERED PATIO ENCLOSURE ADDITION THE PROPOSED ADDITION IS 1516 SF. MAKING THE NEW BUILDING A TOTAL OF 81,099 SF. THIS BUILDING WILL BE USED AS AN ADMINISTRATIVE COUNTY OFFICE BUILDING. THE AREA OF IMPROVEMENT WILL BE AN EXPANSION TO THE EXISTING TAX COLLECTOR OFFICE.

**CONSTRUCTION TYPE**

FBC 602.3 TYPE III A CONSTRUCTION - EXTERIOR WALLS ARE OF NONCOMBUSTIBLE MATERIALS AND THE INTERIOR BUILDING ELEMENTS ARE OF ANY MATERIAL PERMITTED BY THIS CODE

**BUILDING DATA**

TOTAL BUILDING AREA - 81,723 SF.  
OCCUPANCY - TYPE "B" BUSINESS  
FBC TABLE 506.2  
TYPE III A SPRINKLERED SM  
ALLOWABLE BUILDING AREA - 85,500 SF.  
AREA PROPOSED - 81,723 SF. (OK)

**NUMBER OF EXITS**

FBC TABLE 1006.3.2 - SECOND FLOOR 171 OCCUPANTS  
TWO EXITS REQUIRED  
FIRST FLOOR 468 OCCUPANTS - TWO EXITS REQUIRED  
TABLE 1006.2.1 - TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN 1006.2.1 (100 FT. MAX COMMON PATH OF TRAVEL DISTANCE)

**COMMON PATH OF TRAVEL**

NFPA 38.5.3.1 COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FT. IN A FULLY SPRINKLERED BUILDING COMPLIES

**FBC 1007.1  
NFPA 7.5.1.3.3**

EXIT AND EXIT ACCESS DOORWAY CONFIGURATION WHERE A BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 1007.1.1 THE SEPARATION DISTANCE SHALL BE NOT LESS THAN ONE THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED  
DIAGONAL DISTANCE 286 FT. / 3 - 96 FT. MAXIMUM EXIT SEPARATION - 120 FT. PROVIDED - COMPLIES

FBC 1017 TRAVEL DISTANCE LIMITATIONS (TABLE 1017.2)  
EXIT ACCESS TRAVEL DISTANCE (E.A.T.D.) MAX. 300 FEET IN A SPRINKLERED BUILDING. MAX. EATD PROVIDED IS LESS THAN 300 FT. (OK)

NFPA 38.2.6.3 TRAVEL DISTANCE TO EXITS  
TRAVEL DISTANCE SHALL BE MEASURED PER SECTION 7.6  
TRAVEL DISTANCE SHALL NOT EXCEED 300 FT. MAX. PROVIDED - COMPLIES

**FBC 1010.1.0**

EXIT DOORS - PANIC HARDWARE IS REQUIRED IF OCCUPANTS SERVING EXITS EXCEEDS 50 PEOPLE.

**FBC TABLE 803.11  
NFPA 38.3.3.2.1**

INTERIOR FINISHES - GROUP B, EXIT ACCESS CORRIDORS AND EXIT WAYS - CLASS A OR B  
MAXIMUM CORRIDOR WIDTH-TABLE 1020.2 FBC - NFPA 38.2.3.2  
44" MINIMUM WIDTH REQUIRED (COMPLIES) 36" IF SERVING LESS THAN 30 OCCUPANTS.

DEAD ENDS CORRIDORS (IF FIRE SPRINKLERED)  
FBC 1020.4.2 NFPA 38.2.5.2 50 FT. MAXIMUM ALLOWED - COMPLIES  
CORRIDOR FIRE RESISTANCE RATING-TABLE 1020.1 FBC  
WITH SPRINKLER - 0 HOUR RATING REQUIRED  
FOR TYPE B OCCUPANCY - OK

NFPA 38.2.8 EXIT LIGHTING  
ILLUMINATION OF MEANS OF EGRESS SHALL BE PER SECTION 7.8. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF LIGHTS AND EXIT LIGHTS.

FBC TABLE 1004.1.2 **OCCUPANT LOAD**

2ND FLOOR \*25,702 + 150 = 171 OCCUPANTS  
1ST FLOOR 44,415 + 150 = 296 OCCUPANTS  
OCCUPANCY CLASSIFICATION - BUSINESS - 1 OCCUPANT / 15 SF.  
TOTAL = 467 OCCUPANTS

**OCCUPANTS**

BASED ON 468 OCCUPANTS  
234 MEN 234 WOMEN

**TABLE 403.1 FBC PLUMBING**

MINIMUM NUMBER OF PLUMBING FIXTURES

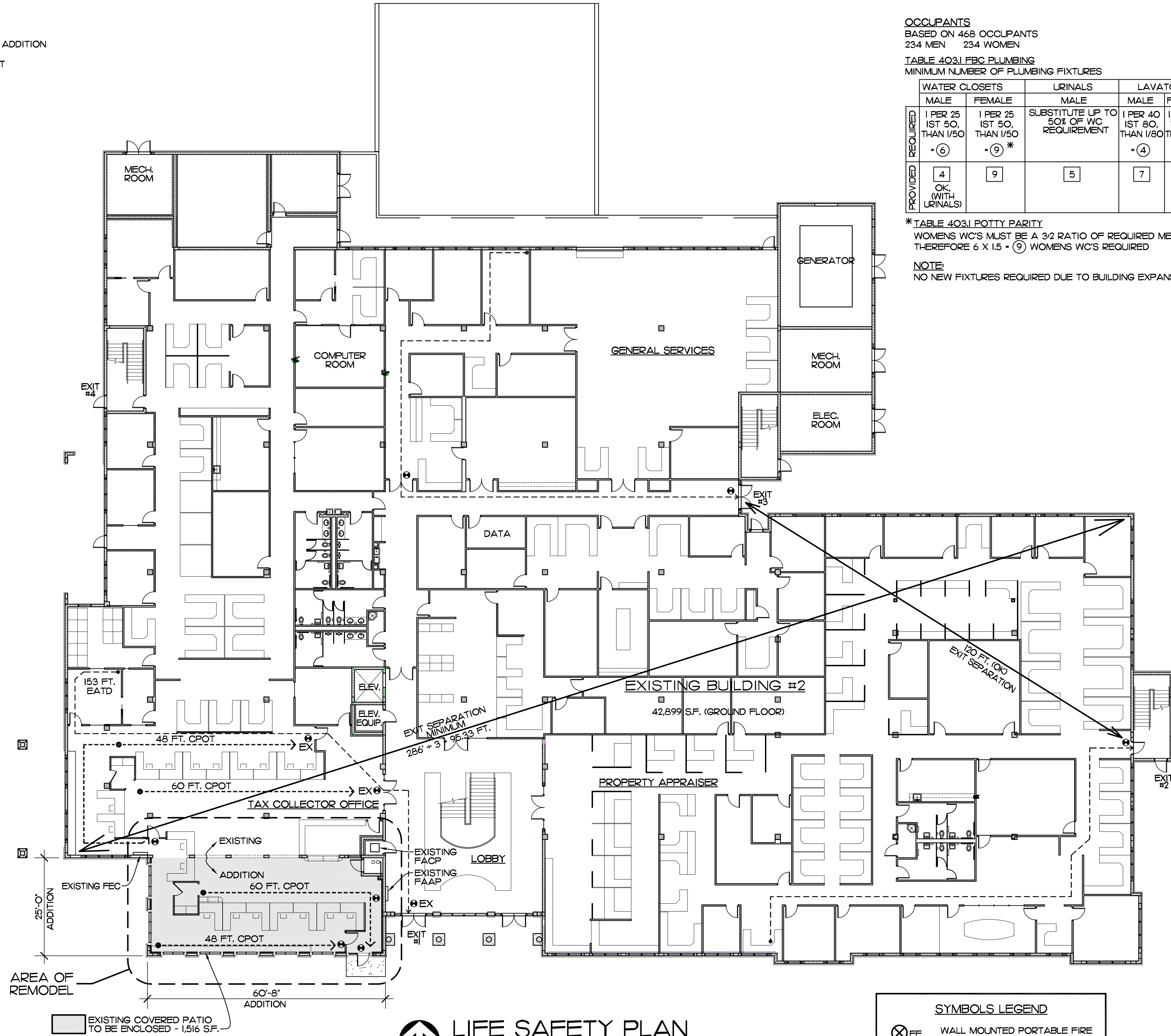
WATER CLOSETS	URINALS		LAVATORIES		DRINKING FOUNTAIN	OTHER
	MALE	FEMALE	MALE	FEMALE		
1 PER 25 IST 50, THAN 1/50	1 PER 25 IST 50, THAN 1/50	SUBSTITUTE UP TO 50% OF WC REQUIREMENT	1 PER 40 IST 80, THAN 1/80	1 PER 40 IST 80, THAN 1/80	1 PER 100	UTILITY SINK
6	9*	5	4	4	6	1
4 OK WITH URINALS	9	5	7	7	6	2

**\*TABLE 403.1 POTTY PARITY**

WOMENS WCs MUST BE A 3/2 RATIO OF REQUIRED MENS WCs AND URINALS COMBINED. THEREFORE 6 X 1.5 = 9 WOMENS WCs REQUIRED

**NOTE:**

NO NEW FIXTURES REQUIRED DUE TO BUILDING EXPANSION, SEE TABLE ABOVE.



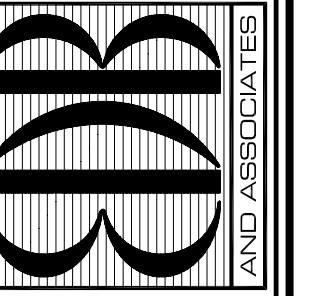
**LIFE SAFETY PLAN**  
SCALE: 1/16" = 1'-0"

BUILDING AREA DATA	
EXISTING GROUND FLOOR	42,899 SF.
EXISTING 2ND FLOOR	37,371 SF.
PROPOSED BUILDING ADDITION	1,516 SF.
TOTAL BUILDING AREA	81,723 SF.

**SYMBOLS LEGEND**

⊗ FE	WALL MOUNTED PORTABLE FIRE EXTINGUISHER (10ABO)
⊗	EXIT SIGN
EATD	EXIT ACCESS TRAVEL DISTANCE MAX. ALLOWABLE IS 300 FEET
CPOT	COMMON PATH OF TRAVEL (NOT TO EXCEED 100 FT.)
FACP	FIRE ALARM CONTROL PANEL (EXISTING)
⊗ EX	EXISTING EXIT SIGN
FEC	FIRE EXTINGUISHER CABINET (EXISTING)
FAAP	FIRE ALARM ANNUCIATOR PANEL (EXISTING)

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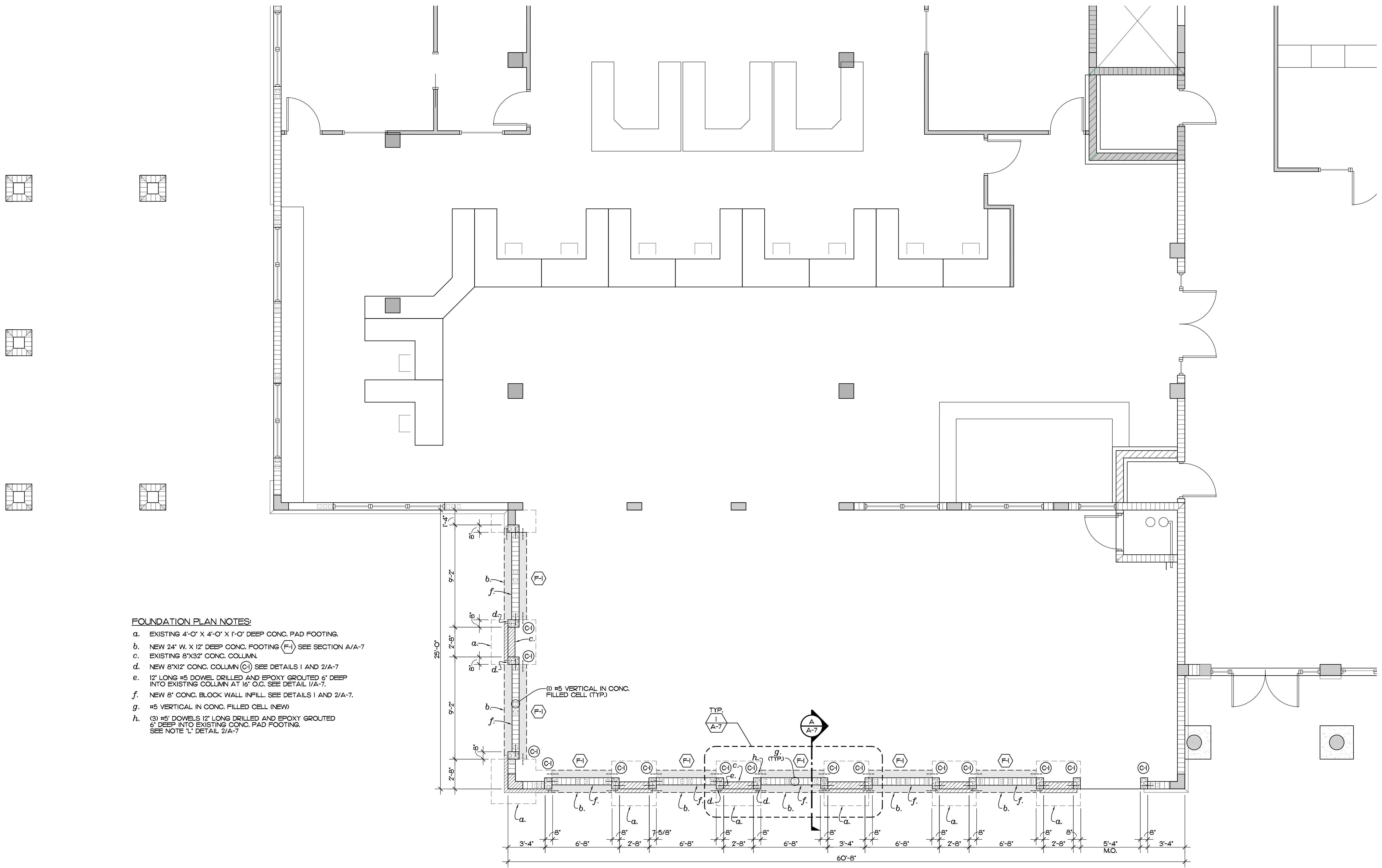
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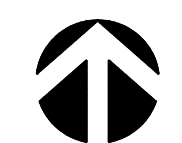
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BY: LJD / JNR  
CHKD: JFB

SHEET NO.  
**LS-1**  
OF ONE



**FOUNDATION PLAN NOTES:**

- a. EXISTING 4'-0" X 4'-0" X 1'-0" DEEP CONC. PAD FOOTING.
- b. NEW 24" W. X 12" DEEP CONC. FOOTING (F-1) SEE SECTION A/A-7
- c. EXISTING 8"X32" CONC. COLUMN.
- d. NEW 8"X12" CONC. COLUMN (C-1) SEE DETAILS 1 AND 2/A-7
- e. 12" LONG #5 DOWEL DRILLED AND EPOXY GROUTED 6" DEEP INTO EXISTING COLUMN AT 16" O.C. SEE DETAIL 1/A-7.
- f. NEW 8" CONC. BLOCK WALL INFILL. SEE DETAILS 1 AND 2/A-7.
- g. #5 VERTICAL IN CONC. FILLED CELL (NEW)
- h. (3) #5' DOWELS 12" LONG DRILLED AND EPOXY GROUTED 6" DEEP INTO EXISTING CONC. PAD FOOTING. SEE NOTE 1' DETAIL 2/A-7

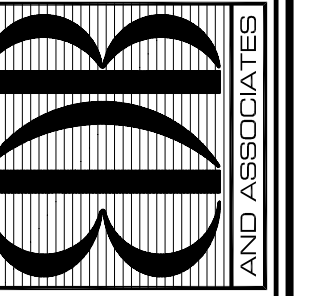


**FOUNDATION PLAN**

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

NOTE: FIELD VERIFY ALL DIMENSIONS

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PROJECT: TAX COLLECTOR OFFICE  
EXPANSION

FOR: INDIAN RIVER COUNTY, FLORIDA  
1800 27TH STREET - BUILDING B  
VERO BEACH, FL 32960

NO.	DATE	REVISIONS

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COMM. NO: 120120VB  
DATE: 2 JUNE 2021  
BY: JNR / LLD  
CHK'D: JFB

SHEET NO.  
**S-1**  
OF ONE

### MECHANICAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS: SMACNA-85, 92, 95; ASHRAE 15-01, 34-01, 62-04; NFPA 70-02, 72-02, 90A-02, 90B-02, 91-99, 96-01; ANSI Z10.1-98, Z10.3-98, Z21.8-94, Z21.83-98.
- THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
- THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.
- CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH FMC 2020, CH. 3, GENERAL REGULATIONS, BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN SHALL UTILIZE NON-FERROUS MATERIALS FOR ALL OUTDOOR EXPOSED SUPPORTS, STANDS, FASTENERS, ETC.
- DUCTWORK:
  - A. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL WITH SEALED SEAMS AND JOINTS WITH EXTERNAL BLANKET INSULATION R-6 MIN. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC., ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FT. INSTALL UL LISTED FOR PLENUM, FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS MANUFACTURED BY "THERMAFLEX". ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.
  - B. ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FT. FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS MANUFACTURED BY "THERMAFLEX".
  - C. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.
- SPECIAL NOTE**  
SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.
- OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR VENT. OUTSIDE AIR INTAKE VENTS LOCATED ON ROOFS WILL BE PROPERLY MARKED WITH A UNIVERSAL MARKING "INTAKE", PERMANENTLY ATTACHED PER FMC 2020, SEC. 401.5
- DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL TO TITUS OR METALAIRE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE WITH FMC 2020, PAR. 601.5 AND PAR. 603.18 FOR BALANCED AIR FLOW.
- TEMPERATURE CONTROLS/THERMOSTAT:
  - A. SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS.
- THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" TO 54" A.F.F. PER A.D.A REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PURCHASING OR INSTALLATION. WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIDE BY SIDE, THEY SHALL BE GANGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.
- REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL. ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV RESISTANT PAINT OR ALUMIN. SHIELD.
- ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE 4-11 FOR PIPING INSULATION. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.

- HVAC CONTRACTOR TO VERIFY OPERATION OF EXISTING AC UNITS. CONTRACTOR TO CLEAN EVAPORATOR AND CONDENSER COIL. CHECK CONDENSATE DRAIN PAN AND CONDENSATE DRAIN LINE. SUPPLY TO THE OWNER / ENGINEER A WRITTEN REPORT ON THE OPERATING CONDITION OF THE UNIT. REPORT TO INCLUDE:
- SUCTION AND DISCHARGE REFRIGERANT PRESSURE.
  - CONDENSING TEMPERATURE, EVAPORATOR TEMPERATURE, AND SUPERHEAT.
  - ENTERING AIR TEMP, DISCHARGE AIR TEMP, AND AMBIENT AIR TEMPERATURE AND TOTAL CFM.
  - SUPPLY VOLTAGE.
  - COMPRESSOR - FULL LOAD AMPS, VERIFY 1φ OR 3φ. CONDENSER FAN MOTOR - FULL LOAD AMPS, VERIFY 1φ OR 3φ. EVAPORATOR FAN MOTOR - FULL LOAD AMPS, VERIFY 1φ OR 3φ.
  - CHECK ELECTRICAL CONNECTIONS ON ALL CONTACTORS AND OTHER ELECTRICAL COMPONENTS.
  - VERIFY DISCONNECT SIZES AND FUSES.
  - CONTRACTOR TO RESEAL ALL DUCT WORK AND REPAIR LEAKING DUCT PER SMACNA STANDARDS. IF UNIT IS LOW ON REFRIGERANT, CONTRACTOR SHALL LEAK CHECK UNIT. REPORT ANY PHYSICAL DAMAGE TO UNIT. SUPPLY NEW FILTERS.

### SPECIAL NOTE TO HVAC CONTRACTOR

NOT TO SCALE

### MECHANICAL SHEET INDEX

SHEET#	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND & INDEX
M2.1	MECHANICAL FLOOR PLAN
M6.1	MECHANICAL SCHEDULES

### MECHANICAL LEGEND

	SUPPLY AIR CEILING DIFFUSER		CEILING OR INLINE EXHAUST FAN
	RETURN AIR CEILING GRILLE		STANDARD SINGLE DUCT VVT BOX (30" SERVICE CLEARANCE)
	WALL LOUVER / WALL DIFFUSER.		THERMOSTAT
	LINEAR DIFFUSER		HUMIDISTAT
	MANUAL VOLUME CONTROL DAMPER		REFRIGERANT SENSOR
	MOTORIZED DAMPER		STATIC PRESSURE SENSOR
	FIRE DAMPER		DUCT SMOKE DETECTOR
	REDUCER OR INZEASER		AP - ACCESS PANEL
	FLEX DUCT		AD - ACCESS DOOR
	EXISTING FLEX DUCT		VCD VOLUME CONTROL DAMPER
	EXISTING DUCTWORK		MOD MANUALLY OPERATED DAMPER
	SUPPLY & OUTSIDE AIR SECTION (UP)		SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION
	SUPPLY & OUTSIDE AIR SECTION (DN)		RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION
	RETURN OR EXHAUST DUCT SECTION (UP)		VARIABLE FREQ. DRIVE CONTROL PANEL
	RETURN OR EXHAUST DUCT SECTION (DN)		SUPPLY AIR
	ROUND UP		RETURN UNDER
	SHOE TAP DAMPER		DOOR UNDER CUT
	ROOFTOP UNIT		EQUIPMENT TAG
	SOLENOID VALVE.		OARTU- OUTSIDE AIR ROOF TOP UNIT
	RELOCATE		RTU- ROOF TOP UNIT
			VAV- VARIABLE VOLUME BOX
			EF - EXHAUST FAN

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

### HVAC ABBREVIATION LEGEND

AC	AIR CONDITIONING	MCA	MINIMUM CIRCUIT AMPS (FOR WIRE SIZING)
AFF	ABOVE FINISH FLOOR	MOD	MANUALLY OPERATED DAMPER
BDD	BACK DRAFT DAMPER	MOCOP	MAXIMUM OVERCURRENT PROTECTION DEVICE AMPS
CD	CONDENSATE DRAIN	NC	NOISE CRITERIA
COP	COEFFICIENT OF PERFORMANCE	O/A	OUTSIDE AIR
DB	DRY BULB	OBD	OPOSITE BLADE DAMPER
DIA.	DIAMETER	PD	PRESSURE DROP.
E	EXISTING TO REMAIN	R	EXISTING TO BE RELOCATED
EER	ENERGY EFFICIENCY RATIO	R/A	RETURN AIR
EDH	ELECTRIC DUCT HEATER	RLA	RATED LOAD AMPS.
EF	EXHAUST FAN	SEER	STANDARD ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE	TSP	TOTAL STATIC PRESSURE
F	FILTER	VD	VOLUME CONTROL DAMPER
FD	FIRE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
FLA	FULL LOAD AMPS.	WB	WET BULB
FMS	FLOW MEASURING STATION		
IPLV	INTEGRATED PART-LOAD VALUE.		

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLAN.

### MECHANICAL NOTES

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PROJECT MANAGER: DUANE MILLAR

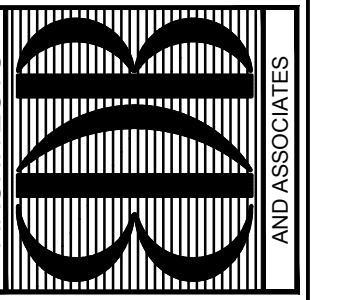
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COMM. NO: 120120VB  
DATE: 1 MAR, 2021  
BY: LJD  
CH\*KD: JFB

SHEET NO. **M0.1**  
OF EIGHT

EDLUND · DRITENBAS · BINKLEY  
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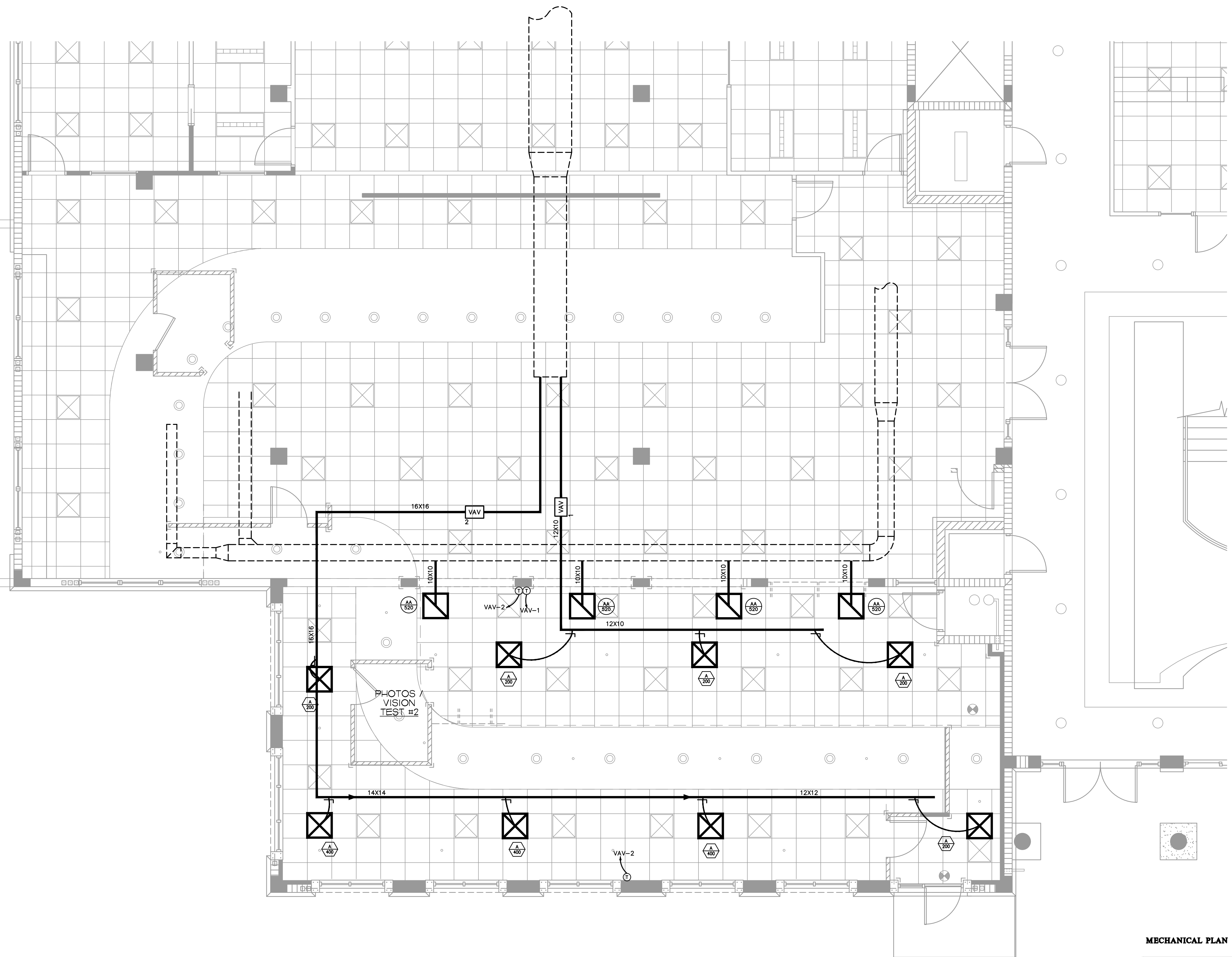
SEAL:

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**MECHANICAL PLAN**  
1/4"=1'-0" NORTH

**MECHANICAL PLAN**

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PROJECT MANAGER: DUANE MILLAR

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date: \_\_\_\_\_  
signed: \_\_\_\_\_

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COMM. NO: 120120VB  
DATE: 1 MAR, 2021  
BY: LJD  
CH'KD: JPB

SHEET NO.  
**M2.1**  
OF EIGH-T

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ARCHITECTS  
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### OUTSIDE AIR CALCULATIONS

(PER TABLE 403.3, FLORIDA BUILDING CODE 7TH EDITION (2020) MECHANICAL)

AREA SERVED OR UNIT TAG	NET OCCUPIABLE AREA SQ.FT.	AREA OUTDOOR AIR RATE (RA) CFM/FT <sup>2</sup>	TOTAL NO. OF PEOPLE	PEOPLE OUTDOOR AIR RATE (RP) CFM/PERSON	DEFAULT VALUES OCC. DENS. P/1000FT <sup>2</sup> FL. AR.	TOTAL NO. OF PEOPLE FROM DEFAULT VALUES	COMBINED OUTDOOR AIR RATE CFM/PERSON	TOTAL CFM O/A REQUIRED	TOTAL CFM O/A PROVIDED	NOTES
EXISTING AHU OFFICES	1385	0.06	7	5	-	-	83+35	118	120	SEE NOTES
TOTAL	1385	-	-	-	-	-	-	118	120	-

**NOTES:**

- CALCULATIONS ARE BASED ON ESTIMATED MAX. OCCUPANCY RATES PER ARCHITECTURAL PLANS AND TABLE 403.3 FLORIDA BUILDING CODE 7TH EDITION (2020) MECHANICAL.
- FOR OFFICE AND OTHER SIMILAR AREAS CALCULATIONS ARE BASED ON CONTINUOUS OCCUPANCY.

### VAV BOX UNIT SCHEDULE

SELECTION DATA			PRIMARY AIR DATA				HEATER DATA		GRL DATA			NOTES		
UNIT TAG	MANUF. & MODEL(*)	TYPE	INLET DIA.	MIN. CFM	MAX. CFM	MIN. Pw(*)	KW	STEPS	VOLTAGE	LxHxW(*) W/ HEAT	WEIGHT(LB) W/O HEAT		LxHxW(*) W/D HEAT	WEIGHT(LB) W/D HEAT
VAV-1	TRANE VCEF	SGL DUCT	8	200	900	*	3.0	1	277/1/80	44X12X17	67	-	-	*
VAV-2	TRANE VCEF	SGL DUCT	12	500	1600	*	5.0	1	277/1/80	44X16X23	93	-	-	*

**NOTES:**

(\*) BOX MODEL IS "VCOF" FOR COOLING ONLY AND "VCEF" FOR COOLING WITH ELECTRIC HEATER

- CONTROLS TO BE DDC. PROVIDE ROOM THERMOSTAT/SENSOR WITH OVERRIDE CAPABILITY. PROVIDE INTEGRATED CONTROL INTERFACE WITH EXISTING BUILDING EMS AS REQ'D.
- POWER BY ELEC. CONTRACTOR. CONTROL WIRING BY MECH/CONTROL CONTRACTOR. CONTROL POWER TRANSFORMER BY VAV MANUFACTURER.
- FOR LONGER DUCT CONNECTION TO BOX THAN RECOMMENDED INLET RUN, MAKE THE TAP FOR BOXES AT THE MAIN DUCTWORK SIZED FOR MAIN STATIC PRESSURE LOSS. REDUCE TAP DOWN TO BOXES INLET SIZE JUST BEFORE CONNECTION AND PROVIDE MIN. LENGTH OF DUCT TO INLET AS RECOMMENDED BY MANUFACTURER FOR PROPER PRESSURE READING.
- FOR BOXES WITH ELECTRIC HEATER, BOX SHALL BE FUSED BY MANUFACTURER IF REQUIRED MCA (AMPS) IS BELOW THE MIN. AVAILABLE SIZE OF COMMERCIAL BREAKER. CONTRACTOR SHALL COORDINATE PRIOR TO PURCHASING. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
- BOX ACTUATORS SHALL BE EITHER SPRING-RETURN TYPE TO ALLOW BOXES TO FAIL FULLY OPEN IN EMERGENCY (SMOKE EVACUATION) MODE OR COMBINATION CONTROLLER-ACTUATOR WITH INTEGRATED, PROGRAMMABLE LOGIC AND PROVIDED WITH AN EMERGENCY POWER CIRCUIT

### SUPPLY AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ TDCA-AA	24X24	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6

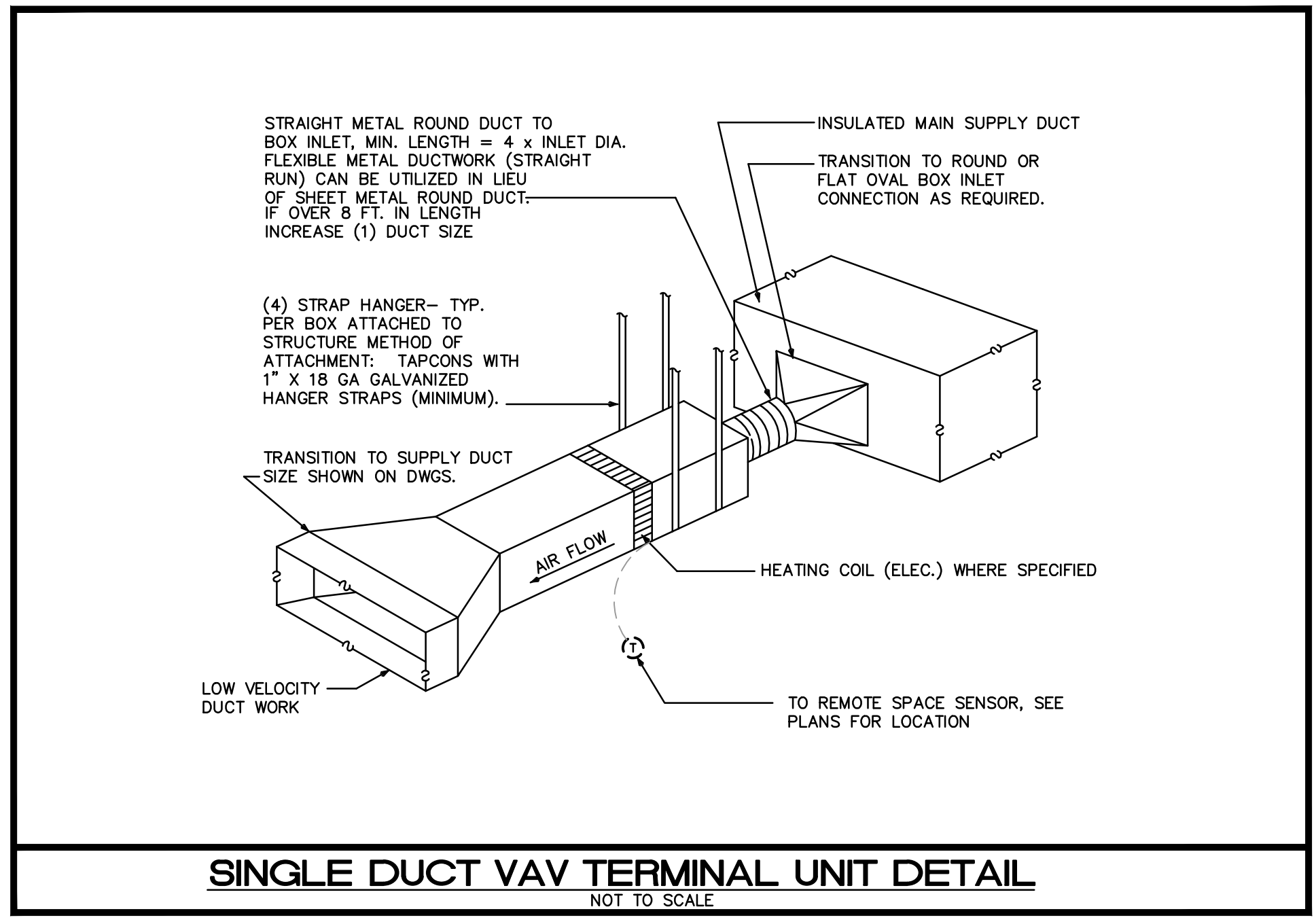
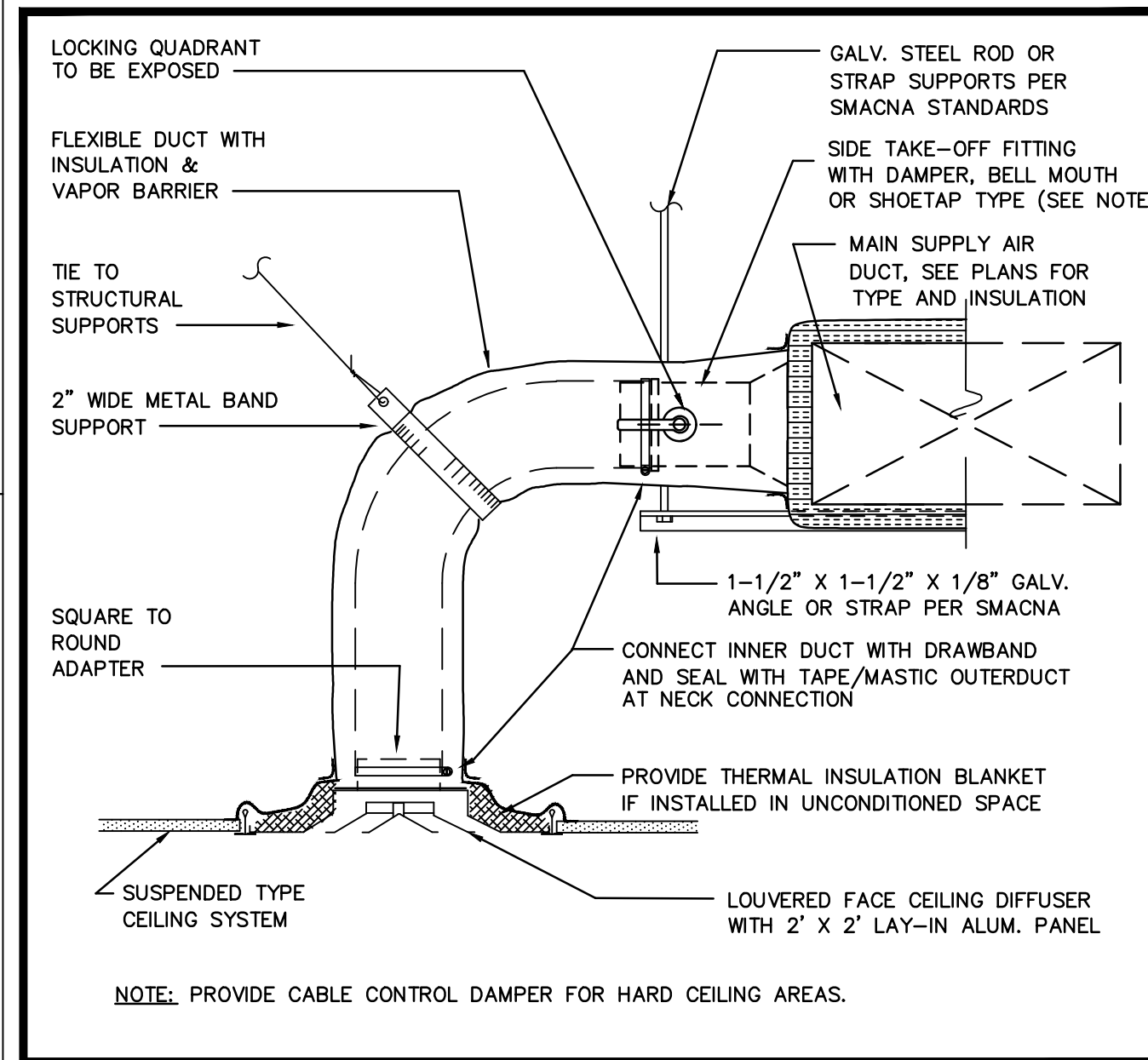
(\*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

**GENERAL NOTES:**

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
- PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN
- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER
- FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

FLEX SCHEDULE	
6"	50-125 CFM
8"	130-200 CFM
10"	205-330 CFM
12"	335-450 CFM
14"	455-600 CFM
16"	605-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.



### RETURN AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
AA	TITUS/PAR-AA	24X24	SEE SCH.	ALUM.	NOTE #1	-	-	-	MAX. 30	SEE SCH.	1-3

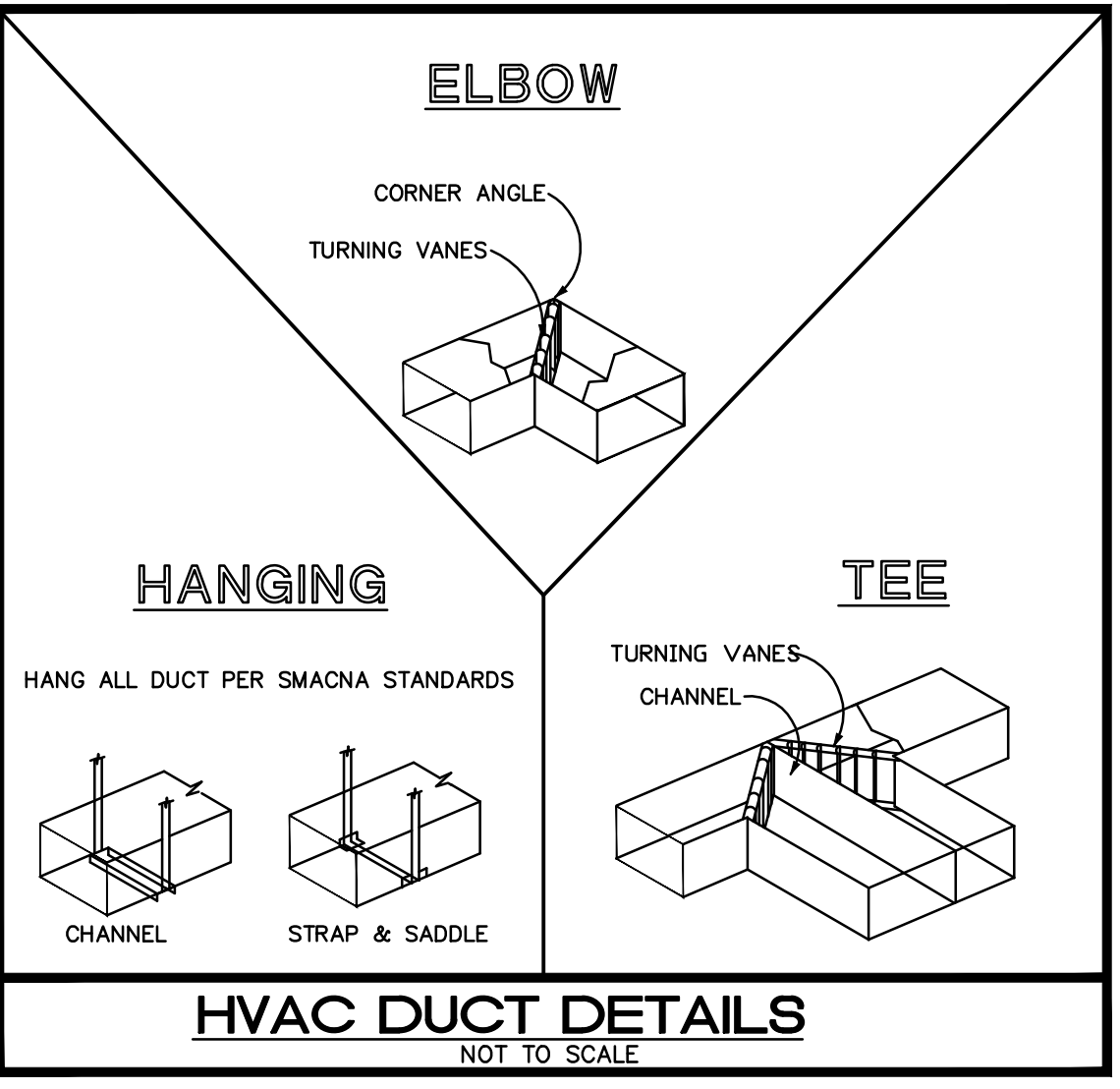
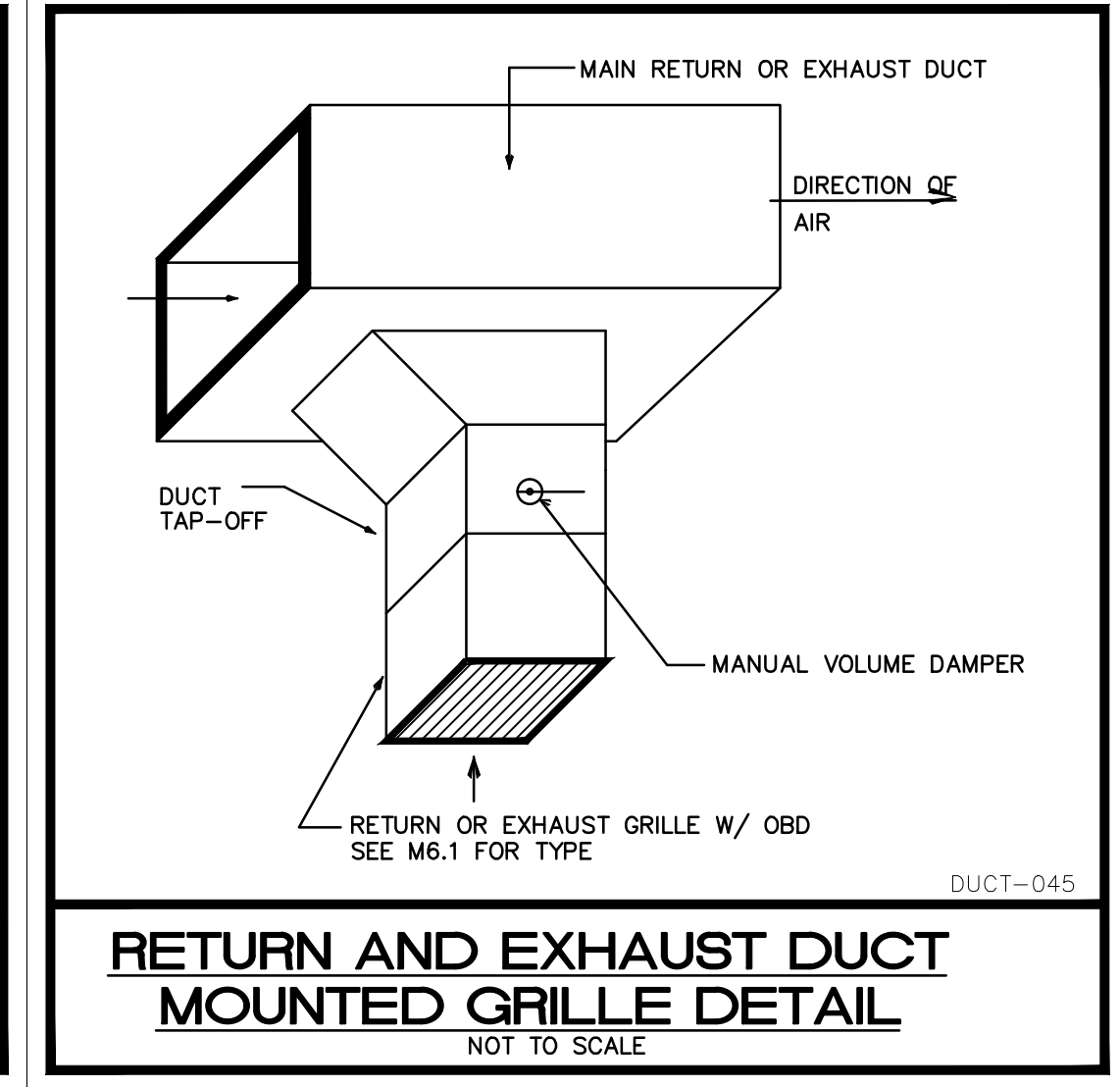
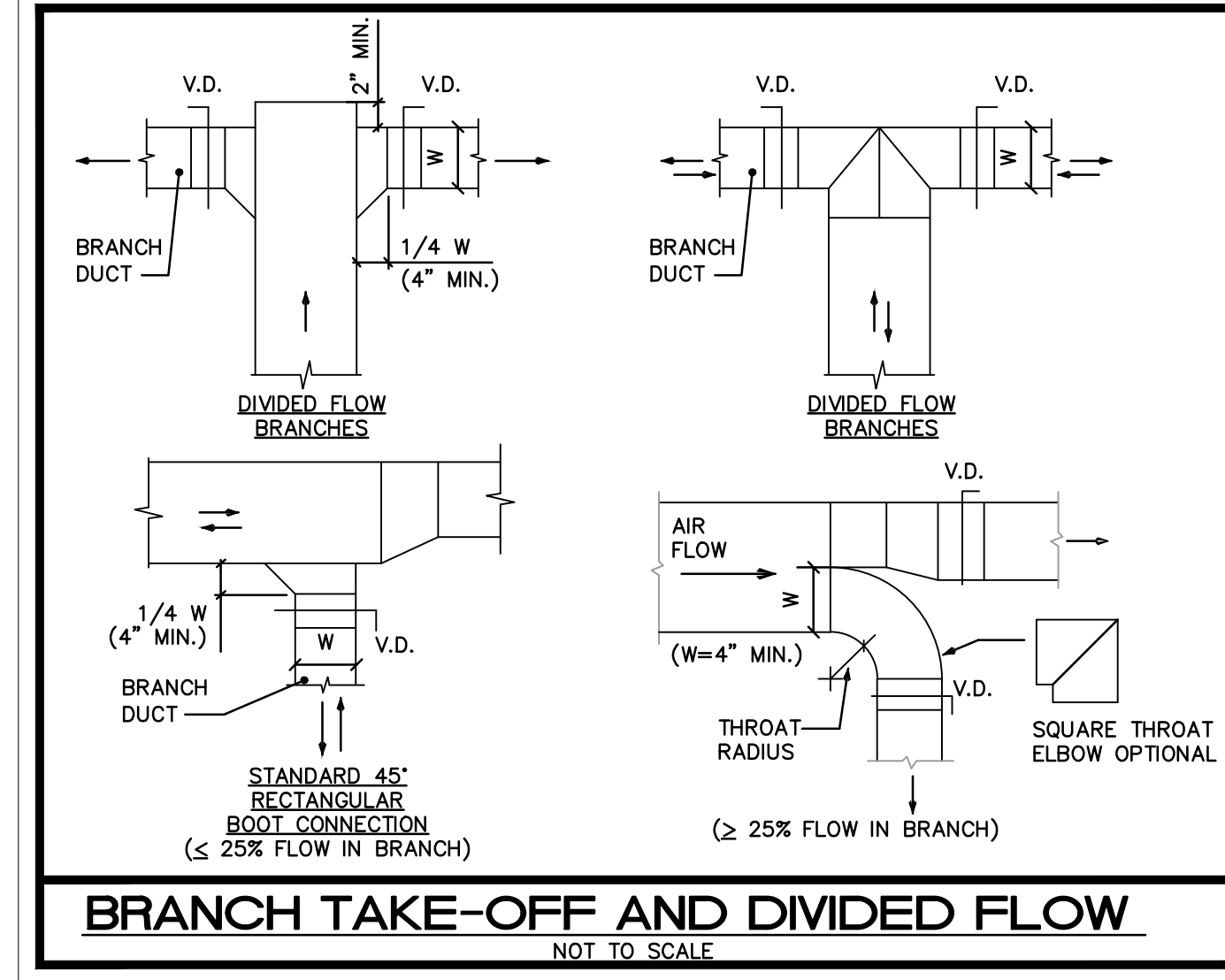
(\*) EQUIVALENT MANUFACTURER: METALAIR, PRICE, CARNES, T & B, NAILOR

**GENERAL NOTES:**

- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE
6X6	0-150 CFM	15X15	0-900 CFM
8X8	0-250 CFM	18X18	0-1350 CFM
10X10	0-400 CFM	22X22	0-2000 CFM
12X12	0-600 CFM		

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.



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ARCHITECTS  
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**MECHANICAL SCHEDULES**

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KAMM CONSULTING PROJECT # 2021-0138  
PROJECT MANAGER: DUANE MILLAR

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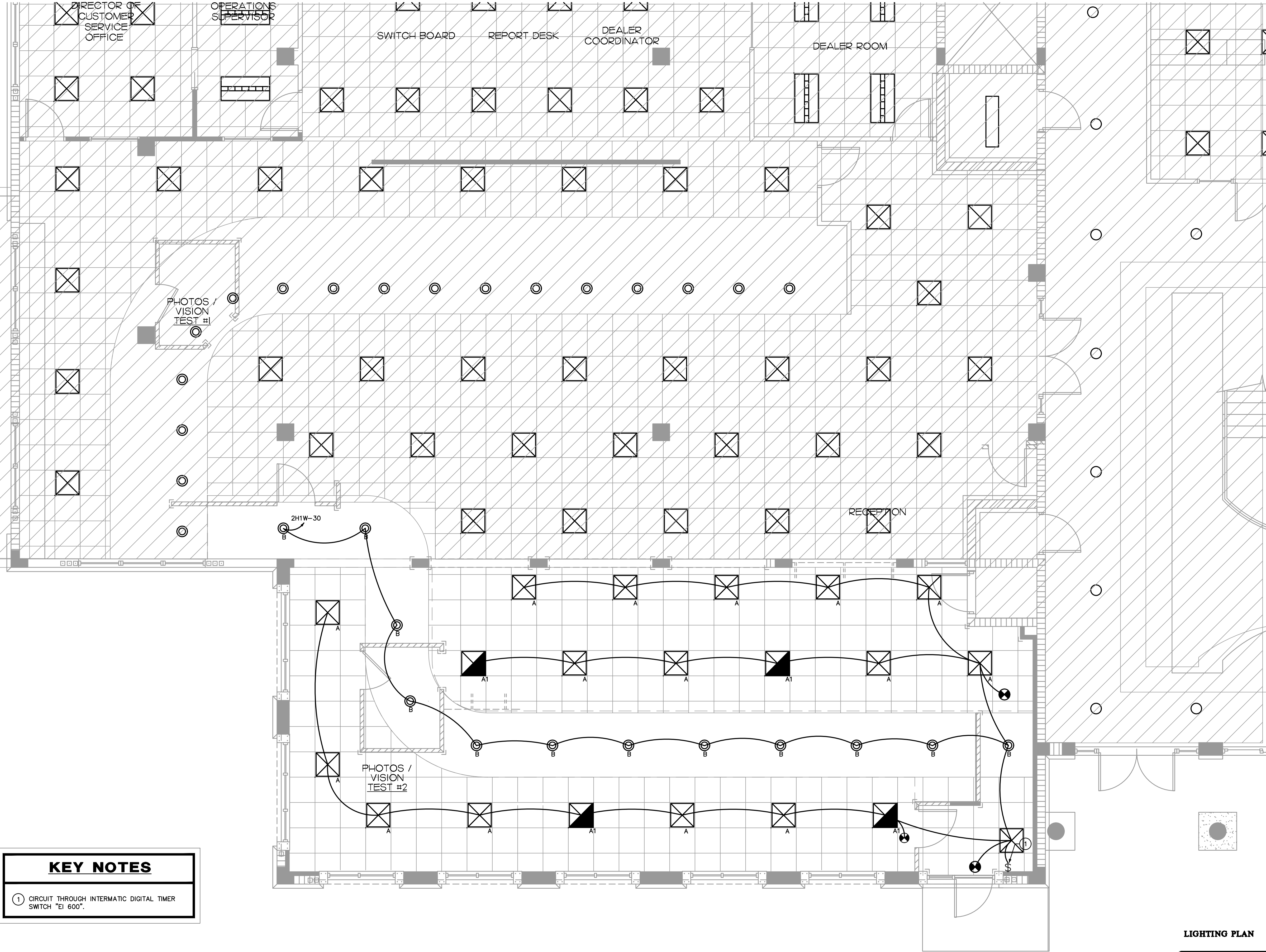
COMM. NO: 120120VB  
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BY: LJD  
CHKD: JFB

SHEET NO.  
**M6.1**  
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**KEY NOTES**

1 CIRCUIT THROUGH INTERMATIC DIGITAL TIMER SWITCH "E1 600".

**LIGHTING PLAN**

1/4"=1'-0" NORTH

**LIGHTING PLAN**

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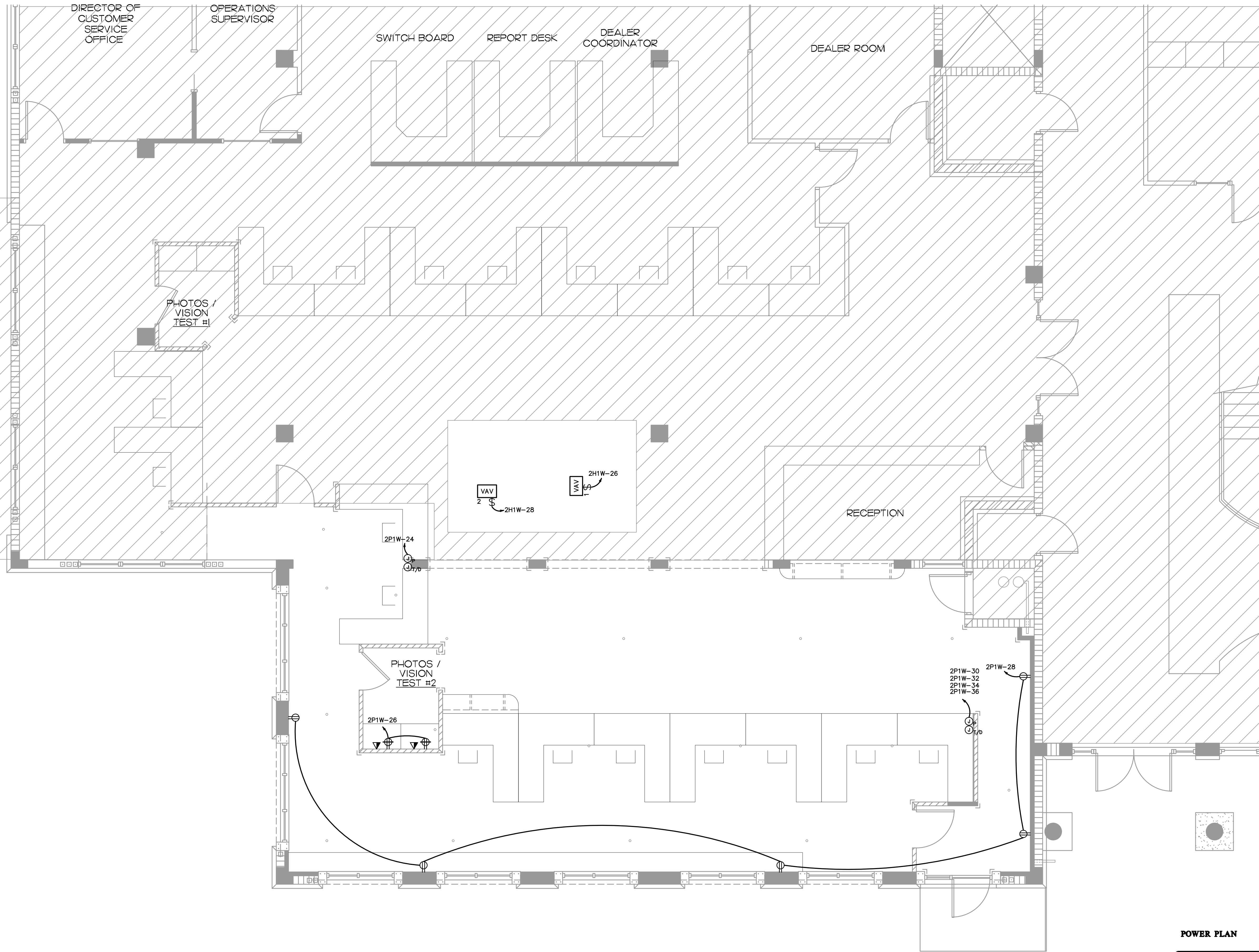
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BY: LJD  
CH'KD: JFB

SHEET NO.  
**E2.1**  
OF EIGH-T



**POWER PLAN**  
1/4"=1'-0" NORTH

**POWER PLAN**

ISSUED FOR REVIEW	
NOT FOR PRICING OR CONSTRUCTION	
KAMM CONSULTING PROJECT #:	2021-0138
PROJECT MANAGER:	DUANE MILLAR
<b>KAMM Consulting</b>	1408 Orange Avenue Fort Pierce, Florida 34950 Phone: 772.595.1744 bbrown@kammconsulting.com Certification of Authorization #8189
PRINCIPAL Bradley E. Brown	Florida License #58232
date	signed

EDLUND · DRITENBAS · BINKLEY  
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65 ROYAL PALM POINTE, SUITE "D"  
VERO BEACH, FLORIDA 32960  
PHONE: (772) 569-4320

ARCHITECTS  
**EDLUND DRITENBAS BINKLEY**  
AND ASSOCIATES

SEAL:  
PROJECT: TAX COLLECTOR OFFICE  
EXPANSION  
INDIAN RIVER COUNTY, FLORIDA  
1800 27TH STREET - BUILDING B  
VERO BEACH, FL 32960  
FOR:

NO.	DATE	REVISIONS

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COMM. NO: 120120VB  
DATE: 1 MAR 2021  
BY: LJD  
CH'KD: JFB

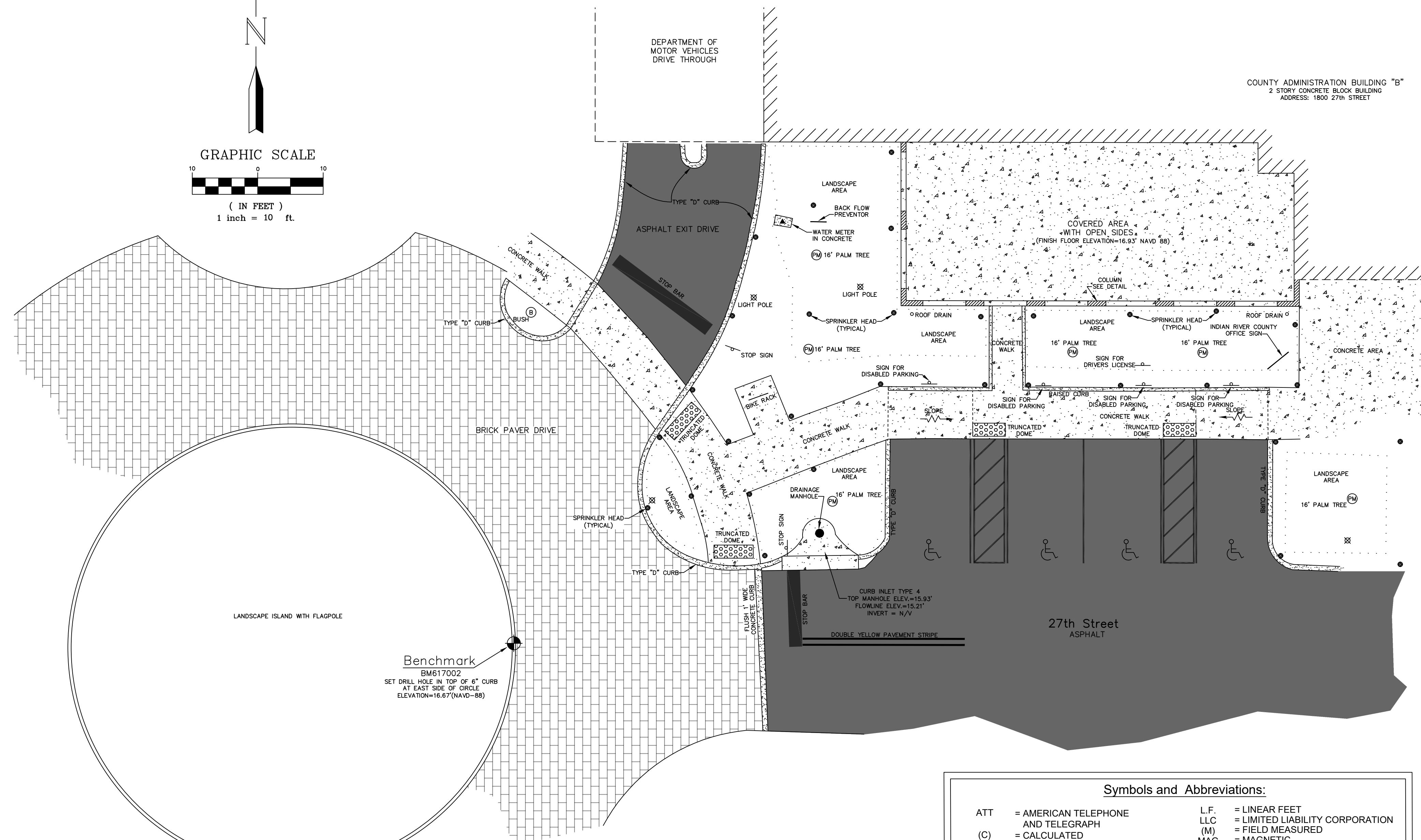
SHEET NO.  
**E3.1**  
OF EIGH-T

# TOPOGRAPHIC SURVEY FOR: INDIAN RIVER COUNTY ENGINEERING DIVISION SURVEY SECTION

TAX COLLECTOR'S OFFICE EXPANSION, INDIAN RIVER COUNTY PROJECT NO. 2033  
SECTION 35, TOWNSHIP 32 SOUTH, RANGE 39 EAST, INDIAN RIVER COUNTY, FLORIDA



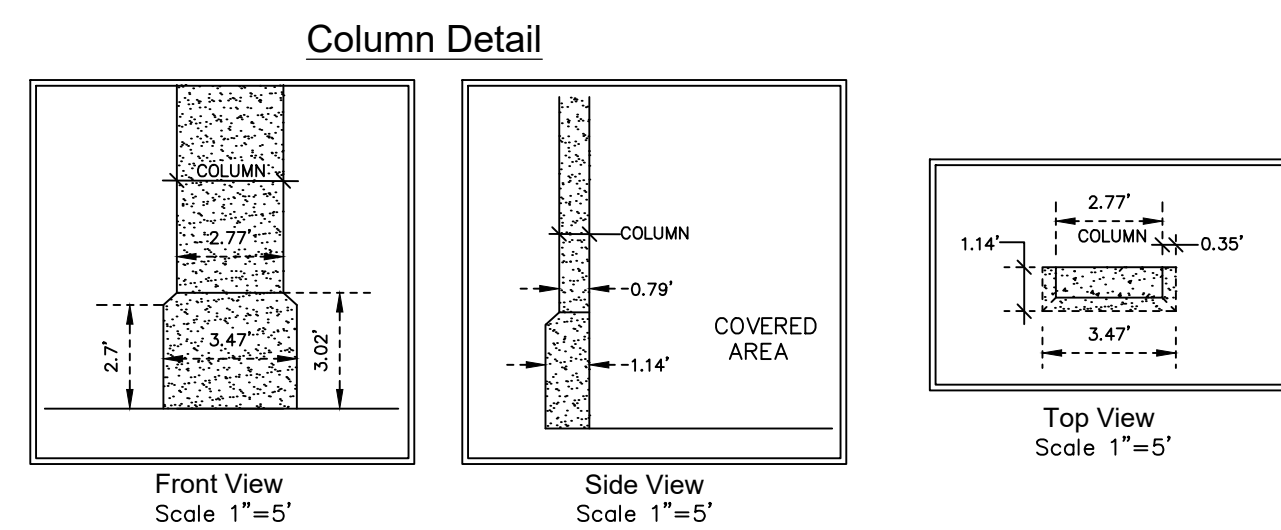
GRAPHIC SCALE  
( IN FEET )  
1 inch = 10 ft.



### Surveyors Notes

- THIS IS NOT A BOUNDARY SURVEY.
- ONLY ABOVE GROUND APPURTENANCES AND VISIBLE UTILITIES HAVE BEEN LOCATED. THERE MAY EXIST ADDITIONAL SUB-SURFACE UTILITIES SUCH AS WATERLINE, TELEPHONE, CABLE TELEVISION AND/OR GAS LINES THAT WERE NOT LOCATED.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE POLICY. THEREFORE THERE MAY BE EASEMENTS, RESTRICTIONS AND/OR OTHER ENCUMBRANCES NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA.
- THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE INDIAN RIVER COUNTY VERTICAL CONTROL NETWORK (I.R.C.V.C.N.) AND ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88). ALL BENCHMARKS IN THE I.R.C.V.C.N. ARE ESTABLISHED FROM A 3-WIRE OR DIGITAL LEVEL BENCH RUN. THIS SURVEY WAS TIED TO INDIAN RIVER COUNTY BENCHMARKS "BM552006" (ELEVATION = 15.92') AND "BM552004" (ELEVATION = 15.05').
- THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS SURVEYED AND COMPLETED BY INDIAN RIVER COUNTY PERSONNEL ON THE DATE OF MARCH 11, 2021. ALL LINE WORK, SYMBOLS AND ELEVATIONS SHOWN HEREON HAVE A HORIZONTAL AND VERTICAL POSITION ACCURACY OF 0.1', MORE OR LESS.
- THIS SURVEY MEETS OR EXCEEDS THE ACCURACY REQUIRED FOR A TOPOGRAPHIC SURVEY PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE. THE HORIZONTAL CONTROL POINTS USED FOR THE PREPARATION OF THIS SURVEY WERE VERIFIED BY MULTIPLE OBSERVATIONS.
- SYMBOLS SHOWN HEREON DEPICT THE HORIZONTAL POSITION OF THAT SPECIFIC IMPROVEMENT. THE SYMBOLS (FOR GRAPHICAL PURPOSES) ARE NOT DRAWN TO SCALE.
- THE MEASUREMENTS FOR THIS SURVEY WERE MADE UTILIZING CONVENTIONAL AND REAL TIME KINEMATIC SURVEYING METHODS WITH THE FOLLOWING EQUIPMENT: LEICA NA AUTOMATIC LEVEL, A LEICA VIVA GLOBAL POSITIONING SYSTEM AND A TOPOCON GT 505 ROBOTIC TOTAL STATION WITH MAGNET SOFTWARE. THE LAST DAY OF FIELD WORK WAS COMPLETED ON MARCH 12, 2021.
- ALL MEASUREMENTS SHOWN HEREON AND TAKEN FOR THE PREPARATION OF THIS SURVEY ARE IN U.S. SURVEY FEET.
- THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1" = 10' OR SMALLER.
- THIS TOPOGRAPHIC SURVEY WAS PREPARED FOR THE INDIAN RIVER COUNTY ENGINEERING DIVISION TO SHOW EXISTING IMPROVEMENTS AT AND AROUND THE PROPOSED ADDITION TO THE TAX COLLECTOR'S OFFICE.
- ALL MAPPED FEATURES SHOWN HEREON ARE BASED UPON THE 1983 NORTH AMERICAN DATUM, 2011 ADJUSTMENT AND PROJECTED IN THE FLORIDA STATE PLANE COORDINATE, EAST ZONE. THIS SURVEY WAS TIED TO THE FLORIDA PERMANENT REFERENCE NETWORK (MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION'S SURVEY DEPARTMENT).

Benchmark  
BM617002  
SET DRILL HOLE IN TOP OF 6" CURB  
AT EAST SIDE OF CIRCLE  
ELEVATION=16.67'(NAVD=88)



Symbols and Abbreviations:	
ATT	= AMERICAN TELEPHONE AND TELEGRAPH
(C)	= CALCULATED
(CL)	= CENTERLINE
C.M.	= CONCRETE MONUMENT
C.M.P.	= CORRUGATED METAL PIPE
COR.	= CORNER
C.R.	= COUNTY ROAD
D.B.S.	= ST. LUCIE COUNTY DEED BOOK
D.I.P.	= DUCTILE IRON PIPE
EL OR ELEV.	= ELEVATION
FNC	= FENCE
FND	= FOUND
I.P.	= IRON PIPE
INC	= INCORPORATED
INV.	= INVERT
I.R.	= IRON ROD
I.R.C.	= INDIAN RIVER COUNTY
I.R.&C.	= IRON ROD AND CAP
X 19.2	= SPOT ELEVATION
L.F.	= LINEAR FEET
LLC	= LIMITED LIABILITY CORPORATION
(M)	= FIELD MEASURED
MAG	= MAGNETIC
N/A	= NON APPLICABLE
NTS	= NOT TO SCALE
N/V	= NOT VERIFIED
O.R.B.	= OFFICIAL RECORDS BOOK
(P)	= PLATTED COURSE
P.B.	= PLAT BOOK
P.B.S.	= ST. LUCIE COUNTY PLAT BOOK
P.C.	= POINT OF CURVATURE
P.I.P.	= POURED IN PLACE
P.T.	= POINT OF TANGENT
P.S.M.	= PROFESSIONAL SURVEYOR AND MAPPER
P.V.C.	= POLYVINYL CHLORIDE
R	= RADIUS
R.C.P.	= REINFORCED CONCRETE PIPE
T.I.I.F.	= TRUSTEES OF THE INTERNAL IMPROVEMENT FUND
⊕	= BENCHMARK

### Certification

(NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER)

I HEREBY CERTIFY THAT THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS COMPLETED UNDER MY DIRECTION AND SAID TOPOGRAPHIC SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I FURTHER CERTIFY THAT THIS TOPOGRAPHIC SURVEY MEETS THE REQUIREMENTS FOR THE STANDARDS OF PRACTICE, AS ESTABLISHED IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE. PURSUANT TO SECTION 472.027 FLORIDA STATE STATUTES.

DATE OF SIGNATURE \_\_\_\_\_

DAVID M. SILON  
INDIAN RIVER ASSISTANT COUNTY SURVEYOR  
FLORIDA CERTIFICATE NO. 6139

NO.	REVISION	DATE	BY	INDIAN RIVER COUNTY 1801 27TH STREET VERO BEACH, FL 32960 (772) 567-8000	DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	CHECKED BY: D. SILON	SECTION: 35	FIELD BOOK: STANTON 5	DATE: 03-17-2021	TOPOGRAPHIC SURVEY Tax Collector's Office Expansion Section's 35, Township 32 South, Range 39 East	SHEET 1 OF 1
						DRAWN BY: R. INGLETT	TOWNSHIP: 32S	PAGE: 32	PROJECT NUMBER: IRC-2030		
						APPROVED BY: D. SCHRIVER	RANGE: 39E				