

ORANGE COUNTY CAPITAL PROJECT DIVISION
INTERNAL OPERATIONS CENTER II
400 E. SOUTH STREET, 5TH FLOOR
ORLANDO, FL 32801

ORANGE COUNTY MAYOR
HONORABLE TERESA JACOBS

COMMISSIONER DISTRICT 1
BETSY VANDERLEY

COMMISSIONER DISTRICT 2
BRYAN NELSON



COMMISSIONER DISTRICT 3
PETE CLARKE

COMMISSIONER DISTRICT 4
JENNIFER THOMPSON

COMMISSIONER DISTRICT 5
EMILY BONILLA

COMMISSIONER DISTRICT 6
VICTORIA P. SIPLIN

PROJECT
ORANGE COUNTY SHERIFF'S GUN RANGE
EAST / WEST BUILDING, NORTH RANGE
BUILDING, & RIFLE RANGE
STRUCTURAL & LIGHTING REPAIRS
12455 WEWAHOOTEE RD.
ORLANDO, FL 32832

ORANGE COUNTY PROJECT MANAGER: AJ MURRAY

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ARCHITECTURAL DESIGN COLLABORATIVE



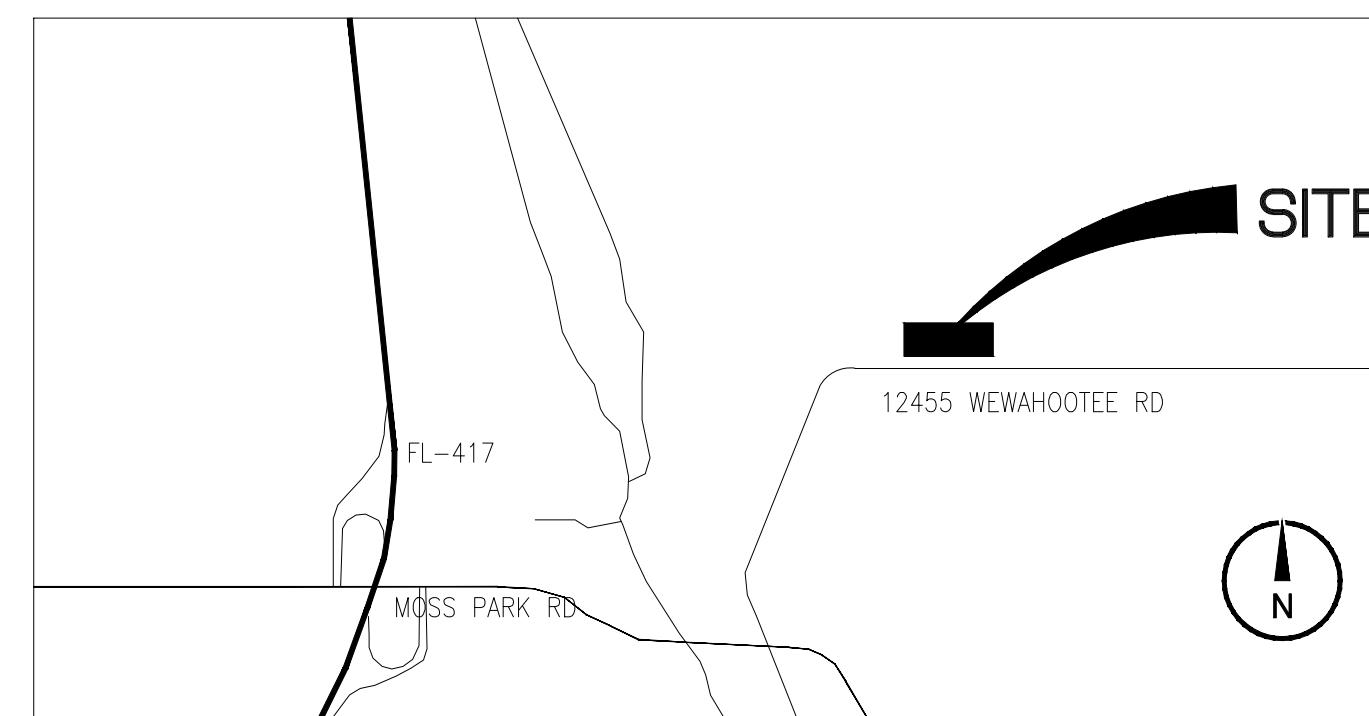
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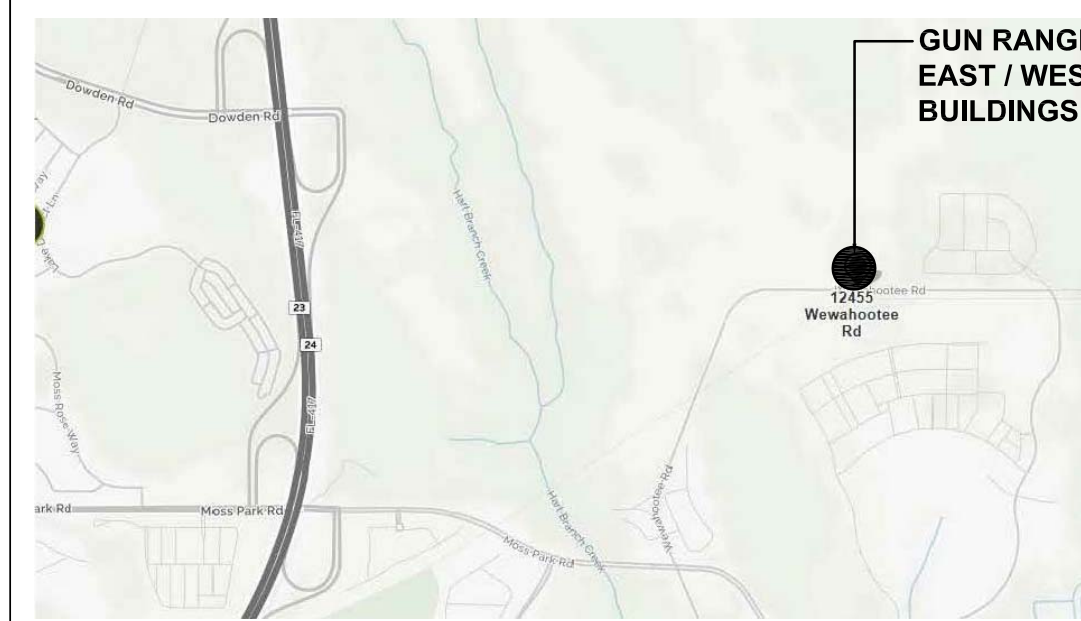


LOCATION MAP

ARCHITECTURAL ABBREVIATIONS

A	ACCESSORY ACOUSTICAL ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION ALUMINUM ALTERNATE ANNUNCIATOR ANODIZED APPLIANCE ARCHITECT(URAL) AUTOMATIC AVERAGE & AND	G	GAUGE GLASS FIBER REINFORCED CONCRETE GLASS FIBER REINFORCED GYPSUM GLASS FIBER REINFORCED PLASTER GLASS GRAD(E)(ING) GYPSUM	R	READER RECESSED RECEPTACLE REFER(ENCE) REFLECTED REFRIGERATOR REQUIRED RESISTANT(IVE) REINFORCE(D)(ING)(MENT) RESILIENT ROOFING ROOM
B	BUILDING BOLLARD BOARD BLOCKING BROADLOOM BUILT UP	H	HEAD HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HEATING, VENTILATING, AND AIR CONDITIONING	S	SCRIBE SECURITY SQUARE FEET SINGLE SHORING SIMILAR STAINLESS STEEL STANDARD STEEL STOREFRONT STRUCTURAL SURFACE SUSPENDED SYSTEM(S)
C	CABINET CARPET CEMENT(TIOUS) CERAMIC CEILING COATING COILING CONCRETE CONSTRUCTION CONTINUOUS(ATION) CONTRACT(OR) COVER CONCRETE MASONRY UNIT	I	INFORMATION INSTRUMENT(ATION) INSULATION INTERLOCK(ING) INTERIOR INFILTRATION	T	THICK TOILET TRAFFIC TRANSPARENT TREATED TONGUE AND GROOVE TYPICAL
D	DOUBLE DEPARTMENT DESIGN(ED) DETAIL DRINKING FOUNTAIN DIAMETER DIFFUSER DIMENSION DISPENSER DIVISION DOWN DOLLAR (US CURRENCY) DOOR DISCONNECT DRAWER	J	JANITOR	U	UNDERLAYMENT UTILITY UNLESS NOTED OTHERWISE
E	ELASTOMERIC ELECTRICAL EMBEDD(ED)(ING) ENGINEER(ED) ENTRANCE EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXPOSE(D) EXTERIOR	K	KITCHEN	V	VEHICLE VERTICAL VERIFY IN FIELD
F	FABRICATION FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER AND CABINET FIRE HOSE CABINET FINISH FOLDING FIREPLACE FIRE RAT(ING)(EO) FRAMING FIXED FIXTURE FLOOR(ING) FURNITURE FUTURE FABRIC WALL COVERING FUTURE	L	LAVATORY POUND BRITISH POUND (CURRENCY) LIGHT LEVELING LOUVER	W	WITH WATER CLOSET WOOD WINDOW WITHOUT WEIGHT WATERPROOFING
		M	MAXIMUM MANUFACTURED MANUFACTURER MECHANICAL METAL MEMBRANE MEZZANINE MINIMUM MISCELLANEOUS MILLWORK MOISTURE MOTORIZED MOUNTED		
		N	NOT IN CONTRACT NUMBER NOT TO SCALE		
		O	ORNAMENTAL OVERFLOW OVERHEAD OPENING(S) OPERABLE		
		P	PARTITION PEDESTRIAN PARTICLE BOARD PROJECT MANAGER PANEL POLYSTYRENE PORTABLE PREFINISHED PREFABRICATED PLASTIC LAMINATE PLASTER PLASTIC PLYWOOD PROTECTION		

VICINITY MAP



PROJECT INFORMATION

APPLICABLE CODES
 FLORIDA BUILDING CODE - 2014
 FLORIDA BUILDING CODE ACCESSIBILITY (5th EDITION 2014)
 FLORIDA FIRE PREVENTION CODE - (5th EDITION)
 NFPA 101 - LIFE SAFETY CODE 2012 WITH FLORIDA AMENDMENTS
 NFPA 1 - UNIFORM FIRE CODE 2012 WITH FLORIDA AMENDMENTS
 NFPA 70 - NATIONAL ELECTRICAL CODE -2011
 FLORIDA MECHANICAL CODE - N/A

OCCUPANCY
 GROUP CLASSIFICATION: UTILITY GROUP U
 OCCUPANT/SQ. FT.: 300 GROSS ASSUMED
 SCOPE OF WORK SQ. FT.: 30,100 SQ. FT. PISTOL RANGE
 2,520 SQ. FT. N PPC BUILDING
 840 SQ. FT. RIFLE RANGE
 OCCUPANT DESIGN LOAD: 30,100 SQFT/300 = 101 PL
 2,520 SQFT/300 = 9 PL
 840 SQFT/300 = 3 PL

ALTERATION LEVEL: ALTERATION LEVEL I

CONSTRUCTION
 TYPE: V B
 SPRINKLED or NONSPRINKLED: NONSPRINKLED
 BUILDING HEIGHT: 1 STORY

PLUMBING REQUIREMENTS: N/A

PROJECT NARRATIVE

PROJECT NARRATIVE/SCOPE OF WORK
 STRUCTURAL REPAIRS TO AN EXISTING OPEN WOOD STRUCTURE WITH METAL ROOF. EXISTING WOOD TRUSSES AND BEAMS HAVE DETERIORATED DUE TO WEATHER CONDITIONS. STRUCTURAL DRAWINGS HAVE BEEN PROVIDED FOR REMEDIATION.

ALTERNATE: INSTALL LED FLOOD LIGHTS AND LIGHTING CONTROLS TO ILLUMINATE TARGETS.

SCOPE OF WORK NOTES:
 1. WORK THAT IS NOT STATED HEREIN NOR SHOWN IN THESE PLANS IS NOT PART OF THE SCOPE OF WORK FOR THIS PROJECT.

2. ADDITIONAL WORK REQUIRED THAT WOULD ALTER THE PRESENTED SCOPE OF WORK SHALL BE SUBJECT TO A REVISION OF THESE DOCUMENTS AND MAY BE REQUIRED TO BE REVIEWED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

DRAWING INDEX

ARCHITECTURAL

COVER	COVER SHEET
A00.00	INDEX, CODES & PROJECT INFORMATION
A00.50	ARCHITECTURAL SITE PLAN

MEP (ALTERNATE 1 & 2)

E001	ELECTRICAL SYMBOLS AND FIXTURE SCHEDULE
E100	ELECTRICAL SITE PLAN
E101	ISOMETRIC PLAN-LTG PHOTOMETRICS
E102	PHOTOMETRIC RENDERING
E201	ENLARGED ELECTRICAL PLANS
E202	ENLARGED ELECTRICAL PLANS
E401	ELECTRICAL DETAILS

STRUCTURAL

S001	STRUCTURAL GENERAL NOTES
S101	PISTOL RANGE REPAIR PLAN
S102	PISTOL RANGE REPAIR PLAN
S103	PISTOL RANGE REPAIR PLAN
S104	NORTH PPC BLDG / RIFLE RANGE REPAIR PLAN
S401	STRUCTURAL REPAIR DETAILS
S402	STRUCTURAL REPAIR DETAILS

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05/01/17
 STATE OF FLORIDA
 MARIA FERREIRA, R.A.
 AA-C001315
 AR-0095752

Architect • Seal/Signature
 Construction Documents for:
 at:
 ORANGE COUNTY SHERIFF'S GUN RANGE
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 12455 WEWAHATCHEE RD
 ORLANDO, FL 32832

Issue	Date & Issue Description	Drawn By	Checked By
1	06.27.16 90% CD	KA	KA
2	01.19.17 90% REVIEW SET	KA	KA
3	05.01.17 FINAL BID/PERMIT SET	KA	KA

Client Information

ORANGE COUNTY FLORIDA

Project Number	16123	Issue Date	05/01/17
Drawn By	KA	Project Status	FINAL BID/PERMIT
Checked By		Scale	NTS

File Name
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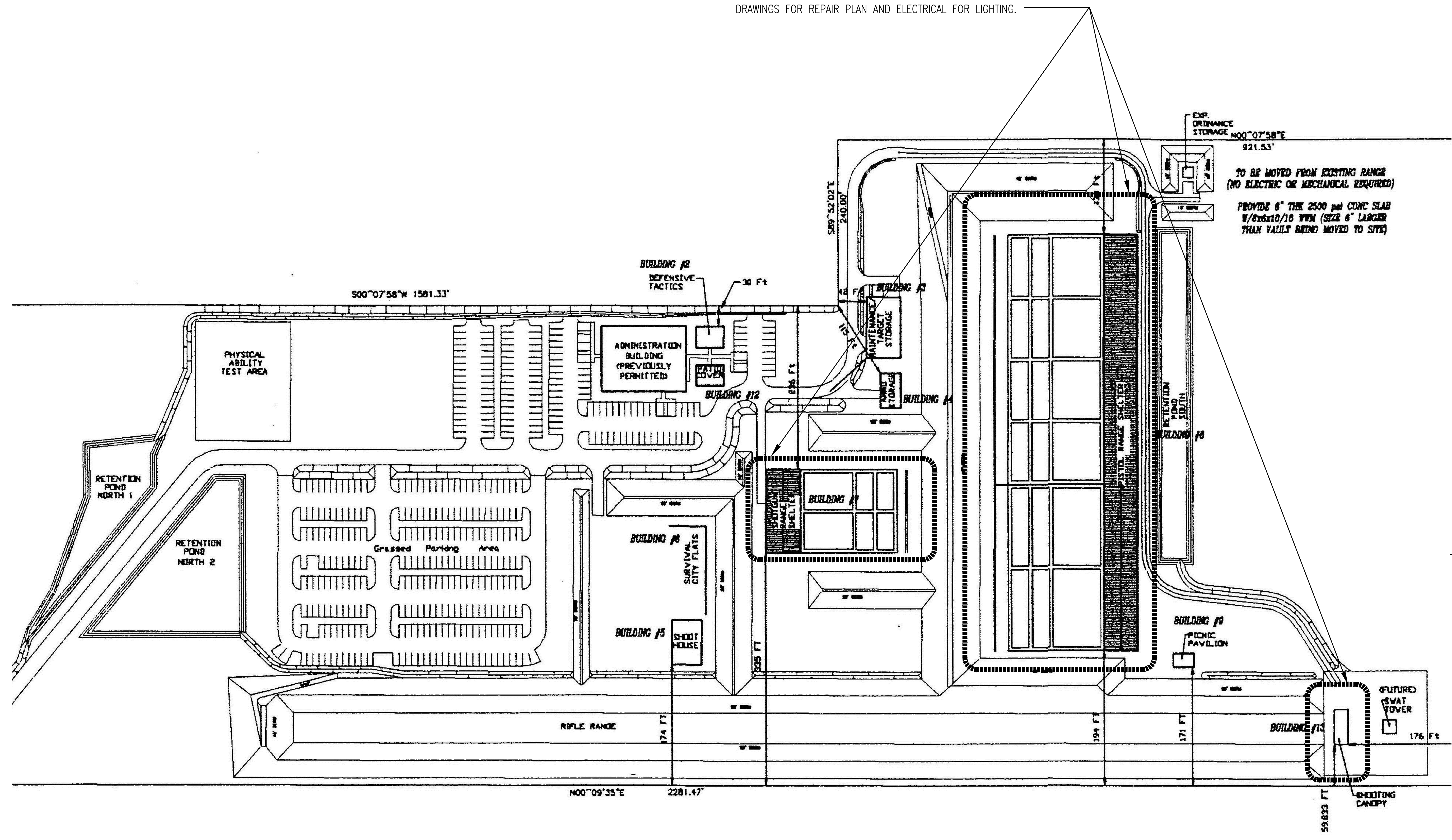
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Sheet Title:

INDEX

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NOTE:
 LOCATION OF EXISTING E/W PISTOL RANGE, NORTH PPC
 BUILDING AND RIFLE RANGE. REFER TO STRUCTURAL
 DRAWINGS FOR REPAIR PLAN AND ELECTRICAL FOR LIGHTING.



TO BE MOVED FROM EXISTING RANGE
 (NO ELECTRIC OR MECHANICAL REQUIRED)
 PROVIDE 6" THK 2500 psi CONC SLAB
 w/8x8x10 W/M (SIZE 6" LARGER
 THAN VAULT BEING MOVED TO SITE)

05/01/17
 STATE OF FLORIDA AA-C001315
 MARIA FERREIRA, R.A. AR-0095752
 Architect • Seal/Signature

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- SPACE PLANNING
- INTERIOR DESIGN
- PLANNING



Client Information

Project Number: 16123
 Issue Date: 05/01/17
 Drawn By: KA
 Project Status: FINAL BID/PERMIT
 Checked By: KA
 Scale: N.T.S.

File Name
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Sheet Title:
 ARCHITECTURAL SITE PLAN



A00.50

LIGHTING FIXTURES

- 1'x4' FLUORESCENT FIXTURE
- 2'x2' FLUORESCENT FIXTURE
- 2'x4' FLUORESCENT FIXTURE
- 4' WALL MOUNT FLUORESCENT LUMINAIRE
- 4' WALL MOUNT FLUORESCENT LUMINAIRE, EMERGENCY
- 1'x4' FLUORESCENT FIXTURE, BATTERY/EMERGENCY
- 2'x2' FLUORESCENT FIXTURE, BATTERY/EMERGENCY
- 2'x4' FLUORESCENT FIXTURE, BATTERY/EMERGENCY
- 4' FLUORESCENT STRIP FIXTURE
- 4' FLUORESCENT STRIP FIXTURE, BATTERY/EMERGENCY
- 4' FLUORESCENT STRIP FIXTURE, WALL MOUNTED
- 4' FLUORESCENT STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
- CEILING MOUNTED RECESSED, DOWN LIGHT
- CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
- CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
- SURFACE MOUNTED LIGHTING FIXTURE
- WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
- POLE MOUNTED FLOODLIGHT
- EMERGENCY LIGHT FIXTURE
- SINGLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS
- DOUBLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS

SWITCHES

- SWITCH
- SWITCH, 2 POLE
- SWITCH, 3-WAY
- MOTOR RATED SWITCH

LIGHTING CONTROL DEVICES

- *PIR-CEILING MOUNT SENSOR 24 VDC/VAC, 11mA, WATTSTOPPER CI-205 OR EQUAL.
 - *DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL.
 - *DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL.
 - *ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/VAC, 40mA, WATTSTOPPER WT-2250 OR EQUAL.
 - PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL.
 - DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL.
 - DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL.
 - DUAL ULTRASONIC/PIR-MULTI-WAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-103 OR EQUAL.
 - POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY. WATTSTOPPER BZ-150 OR EQUAL.
- *FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL. WATTSTOPPER BZ-150 OR EQUAL.

POWER DISTRIBUTION

- 120/208V PANELBOARD, RECESSED
- 120/208V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, SURFACE MOUNT
- 277/480V PANELBOARD, RECESSED
- FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: (4) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

POWER DEVICES

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- ABOVE COUNTER DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, HALF SWITCHED
- SPECIAL PURPOSE RECEPTACLE
- BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
- BLACK QUAD RECEPTACLE FOR COMPUTER WORKSTATION
- CEILING MOUNTED RECEPTACLE
- RECESSED FLOOR RECEPTACLE
- DUPLEX RECEPTACLE, GROUND FAULT
- DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
- QUAD RECEPTACLE, GROUND FAULT
- POWER POLE
- DISCONNECT SWITCH
- JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- EQUIPMENT CONNECTION
- DOOR BELL PUSH BUTTON
- TRANSFORMER
- DOOR BELL
- MOTOR
- GROUND BUS BAR

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	DESIGN SELECTION	VOLTS	LAMPS/FIXT.
SA	BRACKET MOUNTED LED FLOOD LIGHT WITH 0-10 VOLT DIMMING	CREE # FLD-EHO-40-HV-12-UL-BZ-1000/WM -DIM-4L-BZ ("L" MOUNTING BRACKET)	UNV	421W
SSA	CONCRETE POLE MOUNTED LED FLOOD LIGHT. PROVIDE ALL MOUNTING ACCESSORIES.	CREE # FLD-EHO-40-HV-12-UL-BZ-1000/WM -4L-BZ - POLE	UNV	421W

PROVIDE SPECIFIED LIGHT FIXTURES OR PRE-APPROVED EQUAL.

ABBREVIATIONS

A	AMPERES	EXIST	EXISTING	m	METER
AFC	ABOVE FINISHED CEILING	EXP	EXPLOSION PROOF	mm	MILLIMETER
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	FLA	FULL LOAD AMPERES	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERES INTERRUPTING CAPACITY	FLUOR	FLUORESCENT	MFR	MANUFACTURER
AL	ALUMINUM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	GFP	GROUND FAULT PROTECTION	MIN	MINIMUM
BFC	BELOW FINISHED CEILING	GND	GROUND	MISC	MISCELLANEOUS
BFG	BELOW FINISHED GRADE	HGT	HEIGHT	MTD	MOUNTED
C	CONDUIT	HID	HIGH INTENSITY DISCHARGE	MTG	MOUNTING
CAB	CABINET	HPS	HIGH PRESSURE SODIUM	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	HOA	HAND-OFF-AUTOMATIC	PNL	PANEL
CLG	CEILING	HP	HORSEPOWER	PSI	PULL STATION INSIDE
CL	CENTERLINE	HVAC	HEATING/VENTILATING/AIR CONDITIONING	PVC	POLYVINYL CHLORIDE
CT'S	CURRENT TRANSFORMERS	HV	HIGH VOLTAGE	REC	RECEPTACLE
CU	COPPER	INC	INCANDESCENT	RGS	RIGID GALVANIZED STEEL
DISC	DISCONNECT(ING)	JB	JUNCTION BOX	SPD	SURGE PROTECTION DEVICE
DWG	DRAWING(S)	JV	KILO-VOLTS	TEL	TELEPHONE
EA	EACH	KVA	KILO-VOLTS-AMPERES	TYP	TYPICAL
ECB	ENCLOSED CIRCUIT BREAKER	KVAR	KILO-VOLTS-AMPERES REACTIVE	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	KW	KILO-WATTS	USB	RECEPTACLE WITH USB PORT
EQT	ELECTRICAL METALLIC TUBING	KWH	KILO-WATT-HOURS	V	VOLTS
EQUIP	EQUIPMENT	LTG	LIGHTING	VA	VOLT-AMPERES
EUH	ELECTRIC UNIT HEATER			W	WATTS
EWC	ELECTRIC WATER COOLER			WP	WEATHER PROOF
EWI	ELECTRIC WATER HEATER			XFMR	TRANSFORMER

ALL ELECTRICAL DRAWINGS SHALL BE BID AS PART OF ADD ALTERNATE #1 EXCEPT FOR DRAWING E401 WHICH SHOULD BE BID AS ADD ALTERNATE #2



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06/27/16
STATE OF FLORIDA AA-C001315
MARIA FERREIRA, r.a. AR-0095752
Architect • Seal/Signature

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• SPACE PLANNING

• INTERIOR DESIGN

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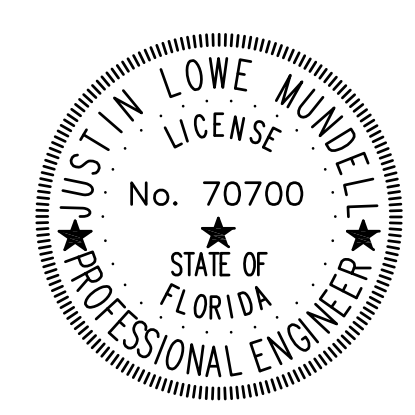
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Drawn By MB	Project Status FINAL BID/PERMIT
Checked By	Scale N.T.S.

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JUSTIN L. MUNDELL-FL70700

Sheet Title:

ELECT. SYMBOLS AND FIXT. SCHED.

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E001

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GENERAL NOTES:

- a. ALL ELECTRICAL ON THIS DRAWING SHALL BE BID AS ADD ALTERNATE #1.
- b. REFER TO SYMBOL LEGEND AND LIGHT FIXTURE ON E001.
- c. REFER TO BOOK SPECIFICATIONS.

PLAN KEY NOTES:

- 1. PROVIDE NEW FLOODLIGHTING AT RIFLE RANGE TARGET. CONNECT TO EXISTING PANEL LOCATED AT SHOOT HOUSE. LOCATE NEW POLE MOUNTED FLOODLIGHT 3/4 OF THE WAY UP THE INSIDE STEEP SLOPE OF THE EXISTING BERM. BURY 30' CONCRETE POLE 10' DEEP IN THE 30 FEET HIGH BERM AND TURN POLE 45 DEGREES SO SIDE OF POLE IS NOT SQUARE WITH FLIGHT OF BULLETS. LOCATE 50 YARDS FROM TARGET AND AIM FIXTURES AS REQUIRED BY COUNTY. A CRANE MAY BE NEEDED TO AUGER HOLE AND INSTALL POLE. VISIT SITE PRIOR TO BID TO ASSESS EXISTING CONDITIONS.
- 2. ROUTE CONDUIT IN BERM TO EXISTING PANEL. LOCATE EXISTING UTILITIES AND HAND DIG TRENCH. PROVIDE 1" C. WITH (3) #4 CU

BETWEEN LIGHT FIXTURE AND CONTACTOR. PROVIDE QUARTZITE PULLBOXES EVERY 200 FEET.

- 3. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL AND A PHOTOCELL TO CONTROL CIRCUIT.
- 4. PROVIDE NEMA 3R 120 VOLT COIL LIGHTING CONTACTOR TO CONTROL NEW POLE MOUNTED FLOODLIGHTS. ROUTE CONTROL CIRCUIT. FROM CONTACTOR TO WEATHERPROOF SWITCH LOCATED AT RIFLE RANGE SHELTER. COORDINATE EXACT LOCATION OF SWITCH AT SHELTER WITH THE COUNTY.
- 5. ROUTE 1" C. AND (3) #6 CU CONDUCTORS BETWEEN CONTACTOR AND SWITCH. PROVIDE QUARTZITE PULLBOXES EVERY 200 FEET.



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• SPACE PLANNING

• INTERIOR DESIGN

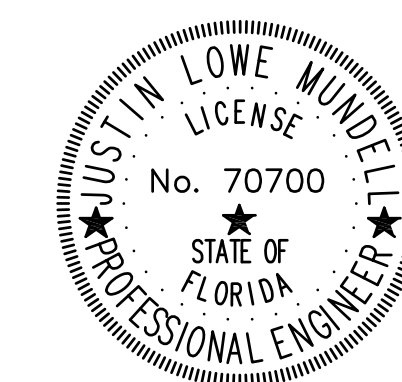
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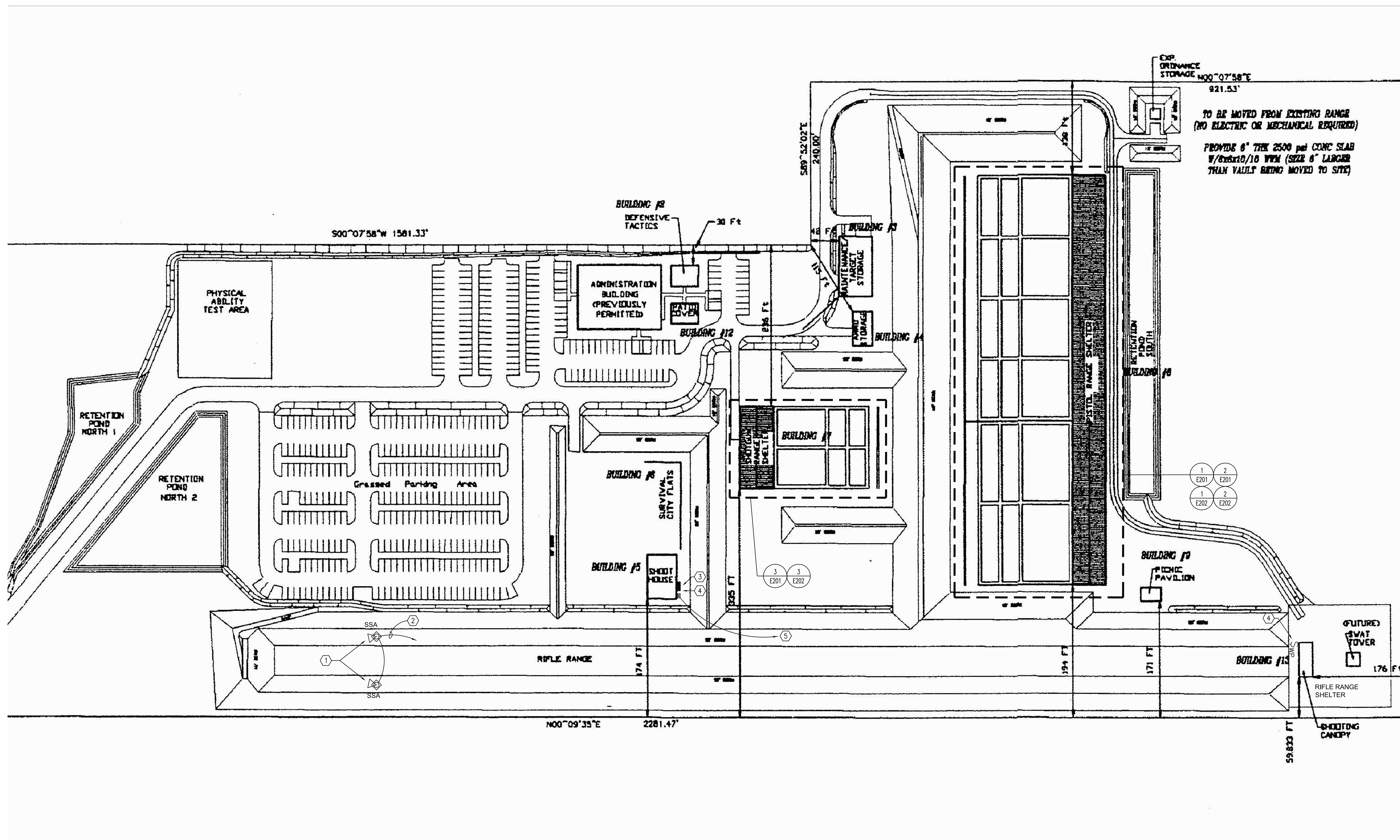
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ELECTRICAL SITE PLAN



E100

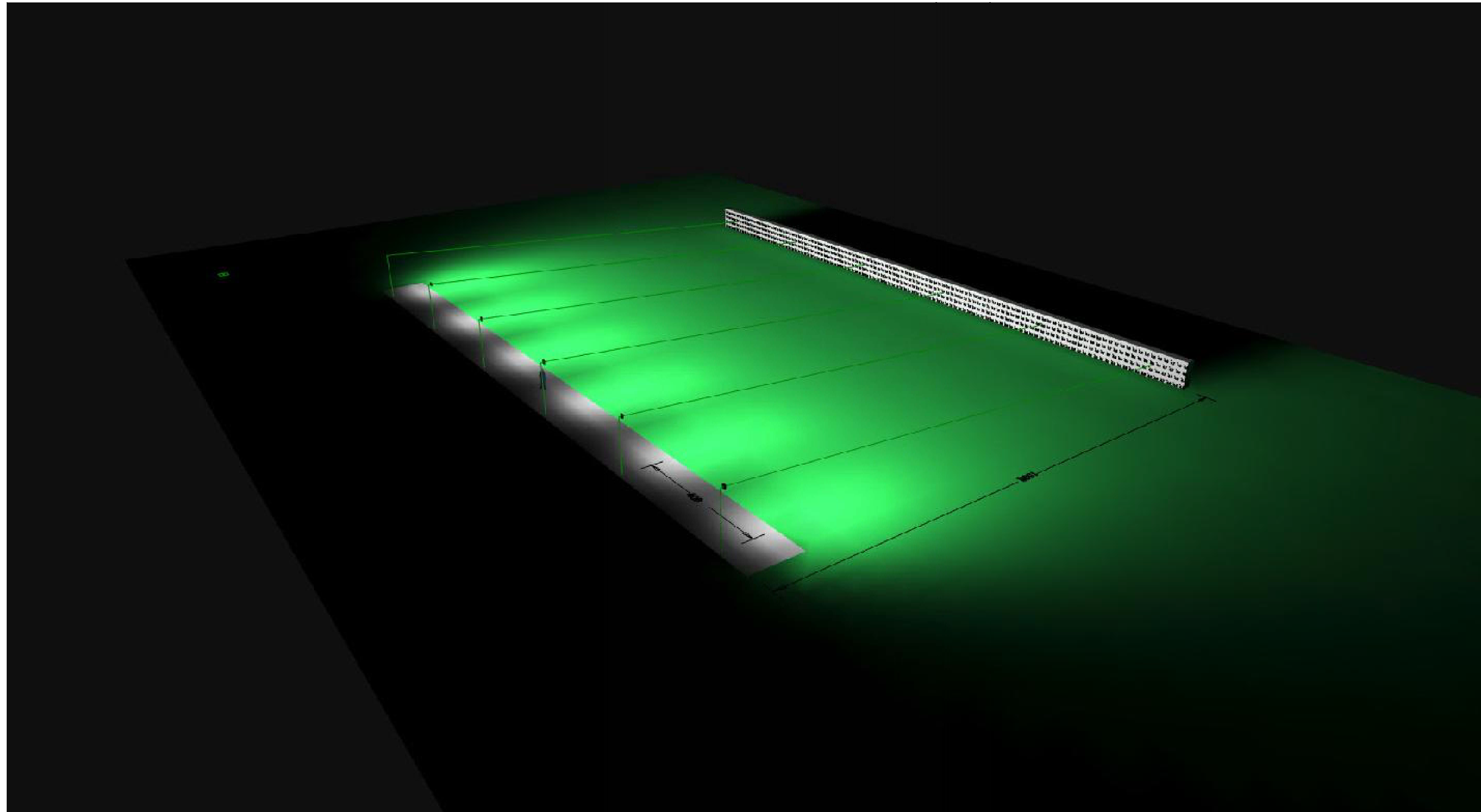
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06/27/16
STATE OF FLORIDA
MARIA FERREIRA, r.a.
Architect • Seal/Signature
AA-C001315
AR-0095752

Construction Documents for:

at:
ORANGE COUNTY SHERIFF'S GUN RANGE
EAST / WEST RANGE BUILDING
NORTH BUILDING, & RIFLE RANGE
STRUCTURAL & LIGHTING REPAIRS
12455 WEWAHOOTEE RD
ORLANDO, FL 32832

Issue	Date & Issue Description	Drawn By	Checked By
1	06.27.16 90% CD		
2	01.19.17 90% REVIEW SET	JJB	
3	05.01.17 FINAL BID/PERMIT SET	JJB	

• SPACE PLANNING
• INTERIOR DESIGN
• PLANNING
• ARCHITECTURE

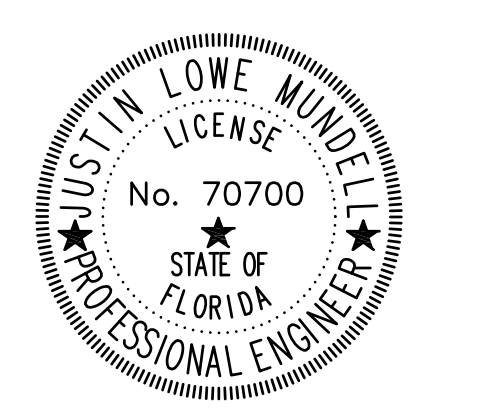
Client Information



Project Number: 16123
Issue Date: 05/01/17
Drawn By: MS
Project Status: FINAL BID/PERMIT
Checked By: [Signature]
Scale: N.T.S.

File Name
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JUSTIN L. MUNDELL-FL70700

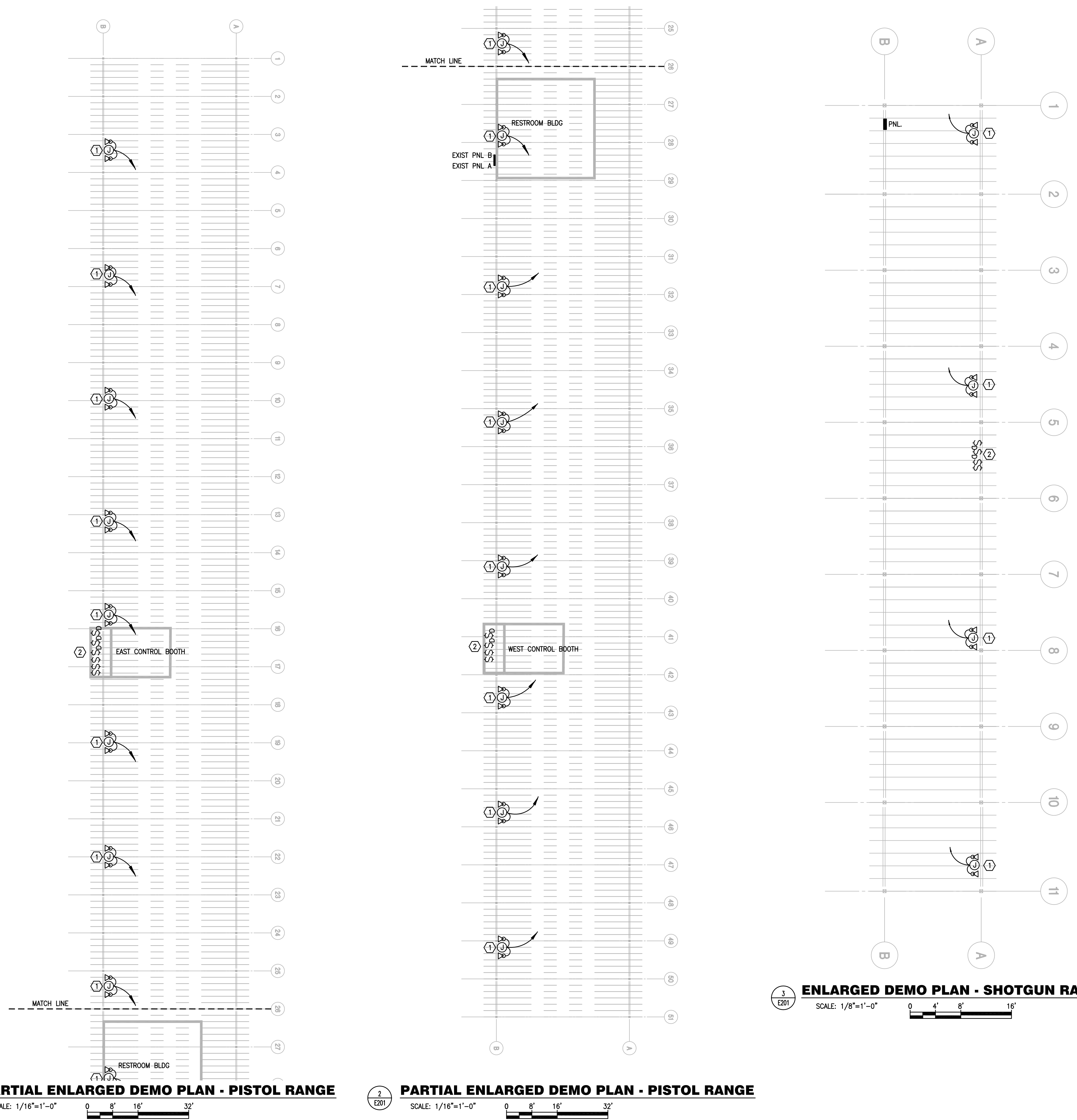
Sheet Title:
PHOTOMETRIC RENDERING

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E102

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GENERAL NOTES:

- a. ALL WORK ON THIS DRAWING SHALL BE BID AS ADD ALTERNATE #1.
- b. REFER TO SYMBOL LEGEND AND LIGHT FIXTURE SCHEDULE ON E001.
- c. REFER TO BOOK SPECIFICATIONS.

PLAN KEY NOTES:

1. REMOVE (1) EXISTING 400 W HID FLOODLIGHT FIXTURE, AND (1) EXISTING 500 W QUARTZ FIXTURE. REMOVE CONDUCTORS BACK TO PANEL AND PATCH HOLES IN ROOF.
2. REMOVE EXISTING CONSOLE MOUNTED SWITCHES AND DIMMERS FROM CONTROL BOOTH. PROVIDE STAINLESS STEEL BLANK PLATES AND PAINT TO MATCH CONSOLE.

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• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

Client Information

ORANGE COUNTY FLORIDA

Project Number 16123 Issue Date 05/01/17

Drawn By MB Project Status FINAL BID/PERMIT

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Sheet Title:
ENLARGED DEMO. ELECT. PLANS



E201

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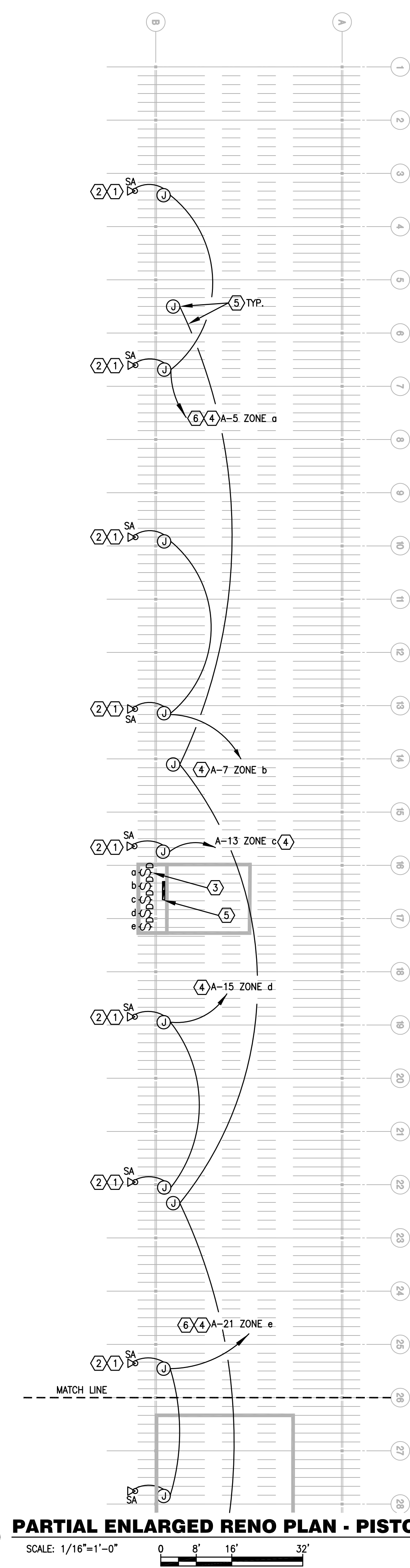
ENLARGED DEMO PLAN - SHOTGUN RANGE
SCALE: 1/8"=1'-0" 0 4' 8' 16'

PARTIAL ENLARGED DEMO PLAN - PISTOL RANGE
SCALE: 1/16"=1'-0" 0 8' 16' 32'

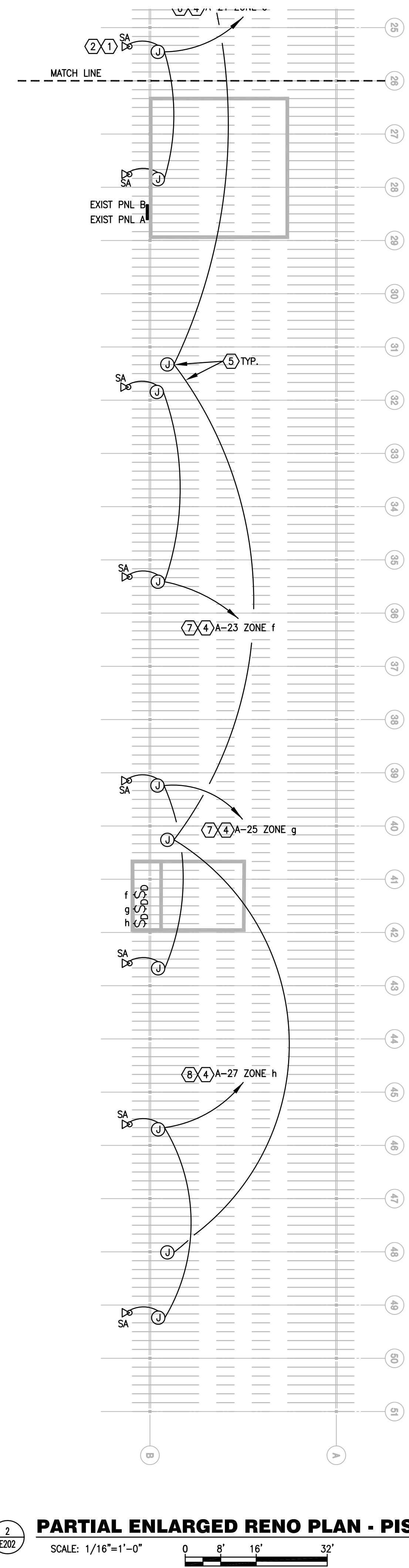
PARTIAL ENLARGED DEMO PLAN - PISTOL RANGE
SCALE: 1/16"=1'-0" 0 8' 16' 32'

PRINTED ON: May 04, 2017 - 8:08am

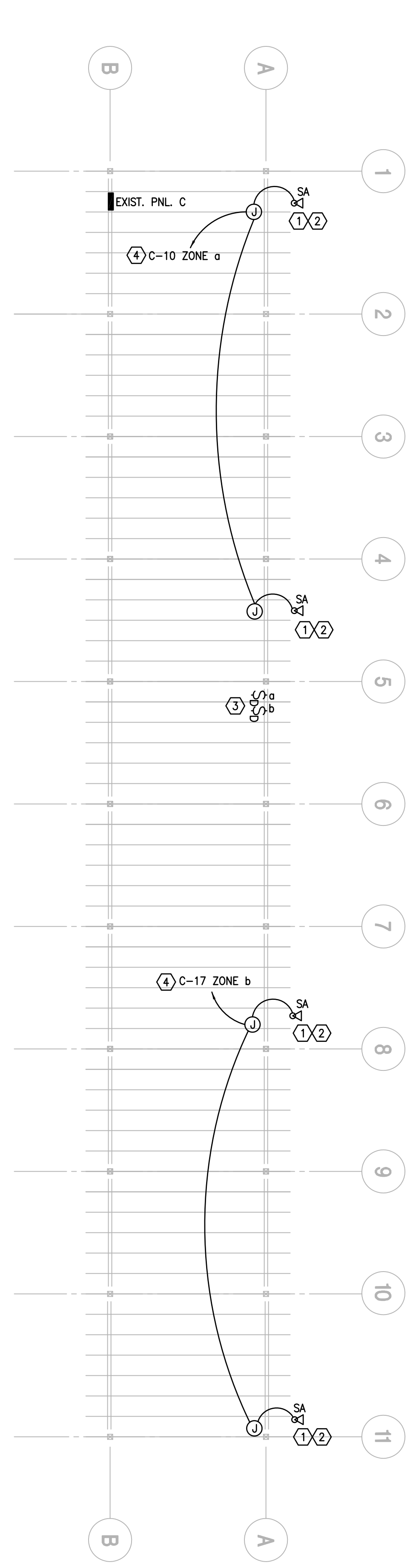
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1 PARTIAL ENLARGED RENO PLAN - PISTOL RANGE
SCALE: 1/16"=1'-0"
0 8' 16' 32'



2 PARTIAL ENLARGED RENO PLAN - PISTOL RANGE
SCALE: 1/16"=1'-0"
0 8' 16' 32'



3 ENLARGED RENO PLAN - SHOTGUN RANGE
SCALE: 1/8"=1'-0"
0 4' 8' 16'

GENERAL NOTES:

- a. ALL WORK ON THIS DRAWING SHALL BE BID AS ADD ALTERNATE #1 EXCEPT FOR THE WORK INDICATED ON KEY NOTE #5.
- b. REFER TO SYMBOL LEGEND AND LIGHT FIXTURE SCHEDULE ON E001.
- c. REFER TO BOOK SPECIFICATIONS.
- d. PROVIDE MINIMUM 3/4" C. AND #10 CU CONDUCTORS FOR ALL CIRCUITS.
- e. PROVIDE SPECIFIED LIGHT FIXTURES OR PRE-APPROVED EQUAL.

PLAN KEY NOTES:

1. MOUNT NEW OWNER SELECTED LED FLOODLIGHT ON FACE OF BUILDING AT NEW STRUCTURAL BRACING. REFER TO DRAWING S402. EXTEND EXISTING CIRCUIT TO NEW FIXTURE AND CONNECT AS REQUIRED.
2. ADJUST AND AIM FIXTURES AT NIGHT AS DIRECTED BY OWNER.
3. PROVIDE LUTRON #NTSTV-DV-WH 0-10 VOLT DIMMER FOR EACH OF (2) TYPE SA LIGHT FIXTURES. MOUNT FLUSH IN EXISTING CONSOLE IN NEAT ORGANIZED MANNER. PROVIDE LABELS AS REQUIRED BY COUNTY.
4. POWER WIRING AND 0-10 VOLT CONTROL WIRING FROM SWITCH TO LIGHT FIXTURE DIMMING DRIVER.
5. PROVIDE ALTERNATE BID PRICE (ADD ALTERNATE #2) FOR PROGRAMMABLE DIMMING SYSTEM LOCATED IN THE EAST CONTROL BOOTH. LOCATE QSM2 RECEIVERS AT 100 FOOT INTERVALS AND CONNECT WITH Q-LINK CABLING. REFER TO DRAWING E401.
6. PROVIDE #8 CU CONDUCTORS THROUGHOUT HOMERUN CIRCUIT.
7. PROVIDE #6 CU CONDUCTORS THROUGHOUT HOMERUN CIRCUIT.



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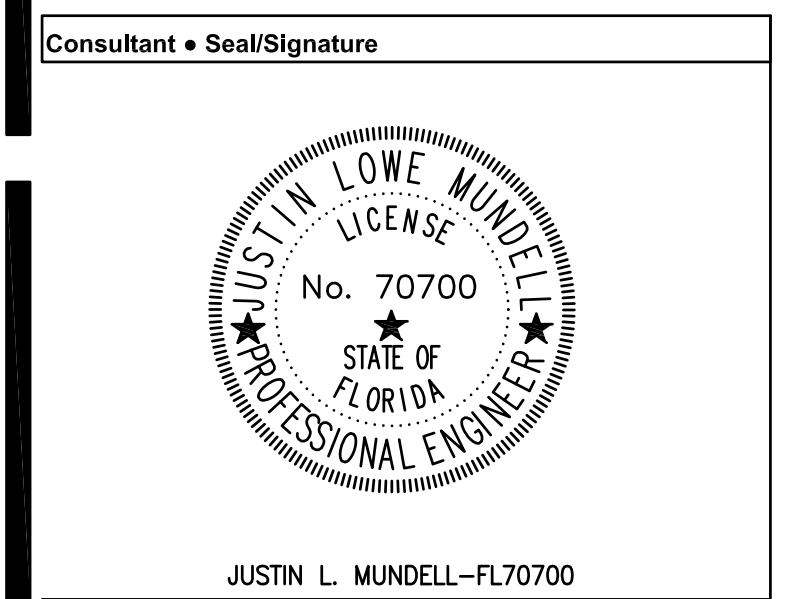
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• SPACE PLANNING
• INTERIOR DESIGN
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• ARCHITECTURE

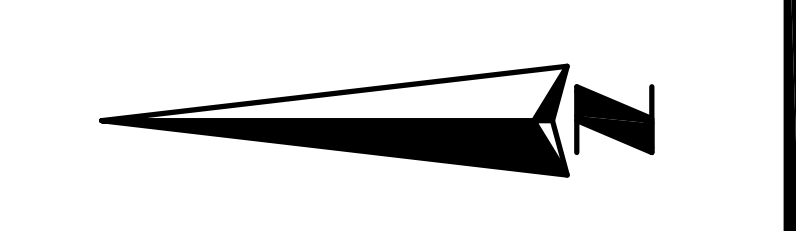


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Sheet Title:
ENLARGED RENO. ELECT. PLANS

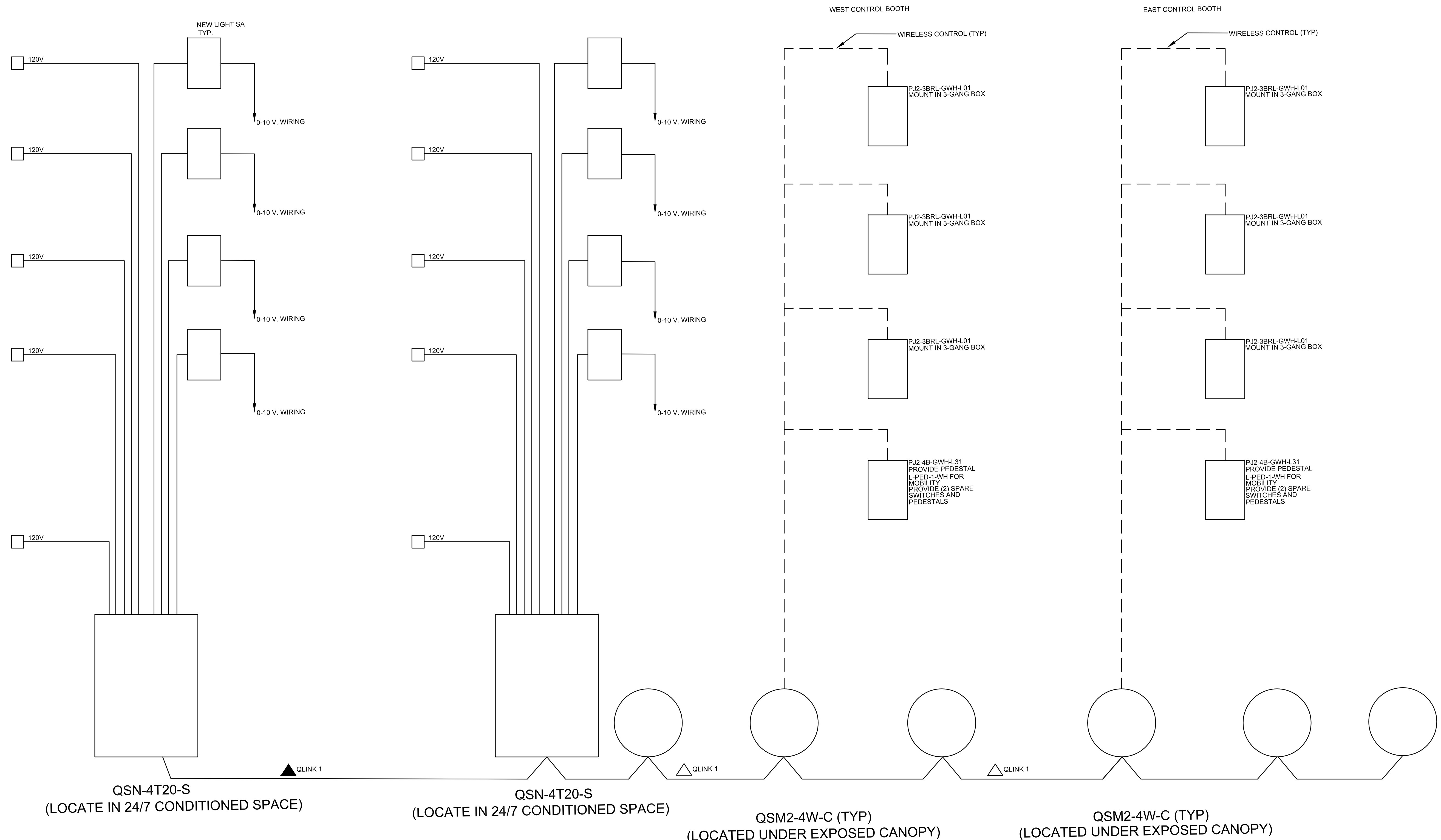


E202

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ALL ELECTRICAL ON THIS DRAWING SHALL BE BID AS ADD ALTERNATE #2 LUTRON DIMMING SYSTEM (OR PRE-APPROVED EQUAL)

- △ QS CONTROL LINK CABLE(CONNECT WIRES 1,2,3 AND 4)"
- ▲ QS CONTROL LINK CABLE(CONNECT WIRES 1,3 AND 4. DO NOT CONNECT WIRE 2)"
- 2 #12 AWG (4 SQ MM) + GROUND
- ◆ 0-10V SIGNAL: 2# 18 AWG (1.0 SQ MM)

PROVIDE FULL ON-SITE START UP OF SYSTEM BY LUTRON.

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• PLANNING
 • INTERIOR DESIGN
 • SPACE PLANNING

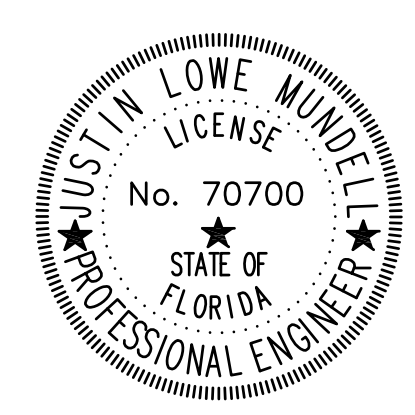
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File Name
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JUSTIN L. MUNDELL-FL70700

Sheet Title:

ELECTRICAL DETAILS

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Issue	Date & Issue Description	Drawn By	Checked By
1	03.24.17	BID/PERMIT DOCS	LBB



CERTIFICATE OF AUTHORIZATION No. 27343
LAURA BARBERO-BUFFA, P.E. No. 74027

1214 EAST CONCORD STREET
ORLANDO, FLORIDA 32803
P: 407.377.7227

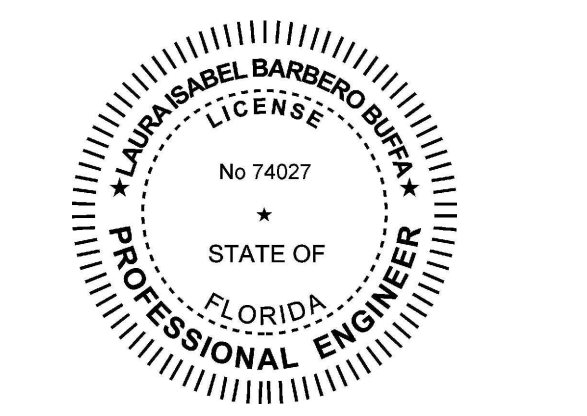
Client Information



Project Number	Issue Date
16123	03/24/17
Drawn By	Project Status
MR	BID/PERMIT DOCS
Checked By	Scale
LBB	AS SHOWN

File Name

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LAURA ISABEL BARBERO BUFFA
FL. PE. NO. 74027

Sheet Title:

STRUCTURAL
GENERAL NOTES

S001

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

- I. GENERAL
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
 - ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
 - IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
 - IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
 - THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. THE COMPLETED LATERAL-FORCE RESISTING SYSTEMS AND DIAPHRAGMS ARE REQUIRED FOR THE STRUCTURE TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER. THIS ALSO INCLUDES NECESSARY SHORING, SHEETING, GUYS OR TIE DOWNS.
 - UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS. DETAILS LABELED TYPICAL DETAILS ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE SIMILAR OR SAME TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
 - BASE CONSULTANTS, INC., SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSION OF THE CONTRACTOR OR FOR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - PERIODIC SITE OBSERVATION BY BASE CONSULTANTS, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
 - ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO INSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
 - ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
 - A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 - THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
 - CONTRACTOR TO ISSUE REQUEST FOR INFORMATION (RFI) FOR ANY INFORMATION NOT CLEAR/NOT SHOWN IN THE DRAWINGS.
 - DO NOT SCALE DRAWINGS
 - NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY ENGINEER OF RECORD FOR THE REVIEW.
- II. DESIGN CRITERIA
- THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE
 - FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT AND ALL APPLICABLE LOCAL CODES.
 - WIND CRITERIA FOR STRENGTH DESIGN WITH A LOAD FACTOR OF 1.0:

ULTIMATE WIND SPEED	139 MPH
EXPOSURE	C
RISK CATEGORY	II
- III. DEMOLITION
- REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS WHICH ARE TO REMAIN IN PLACE. PROVIDE PLYWOOD AND/OR PLANKING TO CUSHION AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS, OR GIRDERS AS DIRECTED BY OWNER.
 - THESE DRAWINGS ARE INTENDED TO DEFINE LIMITS OF REMOVAL OF STRUCTURAL ELEMENTS AND PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SUBMIT A WRITTEN REPORT TO THE ENGINEER FOR REVIEW AND/OR INSTRUCTION OF ACTUAL FIELD CONDITIONS, WHICH MAY VARY FROM INFORMATION, INDICATED ON DRAWINGS.
 - CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED, AS WELL AS PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION.
 - THE DETAILS AND ENGINEERING OF SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED FOR SUCH WORK AND THE PHASING, STAGING, AND SEQUENCE OF SUCH OPERATION SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL DRAWINGS BY A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR OR SUB-CONTRACTOR. THE DRAWINGS SHALL BE PROVIDED TO THE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RESPONSIBLE FOR THE INSPECTION OF SUCH WORK, WHO SHALL REPORT TO THE OWNER ANY DEVIATIONS OBSERVED DURING HIS INSPECTION.
 - THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY FACILITY OR PORTION THEREOF, AND THE ASSOCIATED BARRICADING REQUIREMENTS WITHIN A MINIMUM OF 7 DAYS PRIOR TO COMMENCING WORK.
 - THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN A MANNER WHICH WILL NOT CONFLICT WITH ANY OPERATION WHICH IS TO REMAIN FUNCTIONAL DURING THE COURSE OF THE PROJECT, UNTIL SUCH OPERATION IS SCHEDULED TO SHUT DOWN.
 - THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY UTILITY SYSTEM A MINIMUM OF 3 DAYS PRIOR TO COMMENCING WORK.
 - AT ALL LOCATIONS WHERE NEW CONSTRUCTION WILL INTERFACE WITH EXISTING ELEMENTS, CUT THROUGH EXISTING STRUCTURE IN STRAIGHT AND TRUE LINES TO INSURE A NEAT INTERFACE.
 - BEFORE DEMOLISHING ANY STRUCTURAL ELEMENT, INSTALL ALL REQUIRED TEMPORARY AND/OR PERMANENT BRACING AND SUPPORTS.
 - UPON COMPLETION OF NEW CONSTRUCTION UNDER EACH PHASE, ALL DEMOLISHED AREAS SHALL BE RESTORED TO ACCEPTABLE USAGE ACCORDING TO THE CONTRACT DOCUMENTS AS DETERMINED BY THE ARCHITECT AND/OR ENGINEER.

- REMOVE COMPLETELY FROM THE SITE AND LEGALLY DISPOSE ALL DEBRIS GENERATED BY THE DEMOLITION WORK AS THE WORK PROGRESSES. STOCKPIILING OF DEBRIS AND BURNING OF DEBRIS ON THE PREMISES IS STRICTLY PROHIBITED.
- IV. EXISTING STRUCTURE
- INFORMATION SHOWN ON THE DRAWINGS WAS TAKEN FROM THE DRAWINGS "ORANGE COUNTY SHERIFF'S OFFICE FIRING RANGE & TRAINING FACILITY", PREPARED BY MONTA CONSULTING & DESIGN, AND DATED 03/22/2000.
 - WORK SHOWN ON THE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES MATERIALS, DETAILS ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.
- V. WOOD FRAMING
- ALL WOOD FRAMING SHALL BE DESIGNED, DETAILED AND FABRICATED IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, ALL LUMBER TO BE NO. 2 SOUTHERN YELLOW PINE PRESSURE TREATED WITH A MAXIMUM MOISTURE CONTENT OF 19%.
 - ALL BOLTS USED FOR WOOD CONSTRUCTION SHALL BE A MINIMUM OF 1/2" DIAMETER (ASTM A-307) WITH 7" MINIMUM EMBED (U.N.O. IN PLANS).
 - PROVIDE FRAMING MEMBERS OF SIZES AND SPACING SHOWN, OR IF NOT SHOWN, COMPLY WITH THE RECOMMENDATIONS OF THE FLORIDA BUILDING CODE, LATEST EDITION.
 - PROVIDE ANCHORAGE AND NAILING FOR MEMBERS AND SHEATHING AS SHOWN IN THE DWG'S AND TO COMPLY WITH THE FLORIDA BUILDING CODE, LATEST EDITION.
 - DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.N.O.
 - WHERE PRESSURE TREATED (P.T.) WOOD IS SPECIFIED PROVIDE STAINLESS STEEL CONNECTORS AND FASTENERS (SIMPSON STRONGTIE SST300 OR BETTER.), U.N.O.
- VI. STRUCTURAL STEEL
- STRUCTURAL STEEL SHALL BE AS FOLLOWS, U.N.O.:
 - ANGLES AND PLATES: ASTM A36, Fy = 36 KSI
 - CONNECTION MATERIALS:
 - ALL OTHER CONNECTION MATERIAL, U.N.O.: ASTM A36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
 - STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
 - ALL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED.
 - G.C. TO VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS. ALL VARIANCES ARE TO BE REPORTED TO ENGINEER PRIOR TO FABRICATION.
- VII. SPECIALITY ENGINEERING REQUIREMENTS:
- VII. THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, IN ACCORDANCE WITH RULE 21H-19.00(3). CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF A SPECIALTY ENGINEER FOR THE DESIGN OF THOSE COMPONENTS.
- VIII. SUBMITTALS
- THE GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.
 - A RECORD SET OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL CONTRACTOR.
 - ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
 - THE CONTRACTOR SHALL PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
 - THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW:
 - SHORING (1, 3)
 - METAL HURRICANE HOLD-DOWN STRAPS AND FRAMING ANGLE CONNECTORS (2)
 - ALL STEEL ITEMS
 - ITEMS MARKED (1) SHALL HAVE SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (2) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. ITEMS MARKED (3) SHALL HAVE DESIGN CALCULATIONS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
 - THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
 - THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
 - REQUEST FOR INFORMATION SHALL BE ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER VIA ARCHITECT OR DIRECTLY TO ENGINEER WHEN APPROVED BY ARCHITECT. RFI SHALL BE SUBMITTED IN A PROMPT MANNER TO AVOID DELAYS IN THE CONTRACTORS WORK.
 - RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR CONFLICT WITH APPLICABLE STANDARDS OR CODES. IT IS TECH RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DESIGN TEAM IMMEDIATELY MANY PERCEIVED COST, SCHEDULE OR SCOPE IMPACTS.

PRINTED ON:

REPAIR PLAN NOTES:

1. SMALL HOLES IN METAL ROOF DECK (LESS THAN ONE INCH IN DIAMETER) SHALL BE REPAIRED USING AN ACRYLIC-BASED ROOF MASTIC. CONTRACTOR TO PROVIDE ALLOWANCE FOR 2 S.F. OF ROOF-DECK HOLE REPAIRS.
2. CRACKED/DAMAGED METAL TRUSS CONNECTOR PLATES SHALL BE REPLACED W/NEW METAL CONNECTOR PLATES SIZED TO MATCH EXISTING. NEW METAL CONNECTOR PLATES SHALL CONFORM TO ASTM A653 FOR HOT-DIPPED GALVANIZED OR GALVANNEALED SHEET STEEL.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. GC TO COORDINATE NEW LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS. SEE 1/S402 FOR LIGHT MOUNTING BRACKET REINFORCEMENT.

ADC

ARCHITECTURAL DESIGN COLLABORATIVE

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Architect • Seal/Signature

Construction Documents for:

at:
ORANGE COUNTY SHERIFF'S GUN RANGE
EAST / WEST RANGE BUILDING
STRUCTURAL REPAIRS
12455 WEWAHOOTEE RD
ORLANDO, FL 32832

Issue	Date & Issue Description	Drawn By	Checked By
1	03.24.17 BID/PERMIT DOCS	LBB	LBB



CERTIFICATE OF AUTHORIZATION No. 27343
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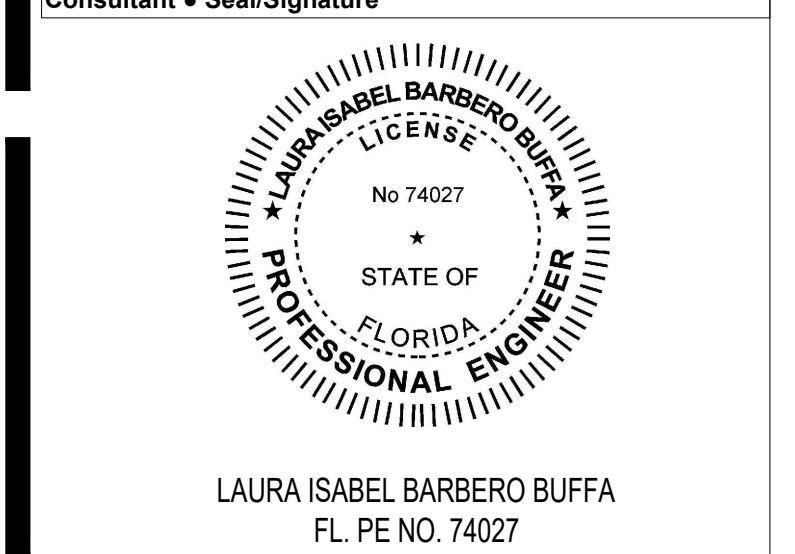
Client Information



Project Number 16123	Issue Date 03/24/17
Drawn By MR	Project Status BID/PERMIT DOCS
Checked By LBB	Scale AS SHOWN

File Name

Consultant • Seal/Signature



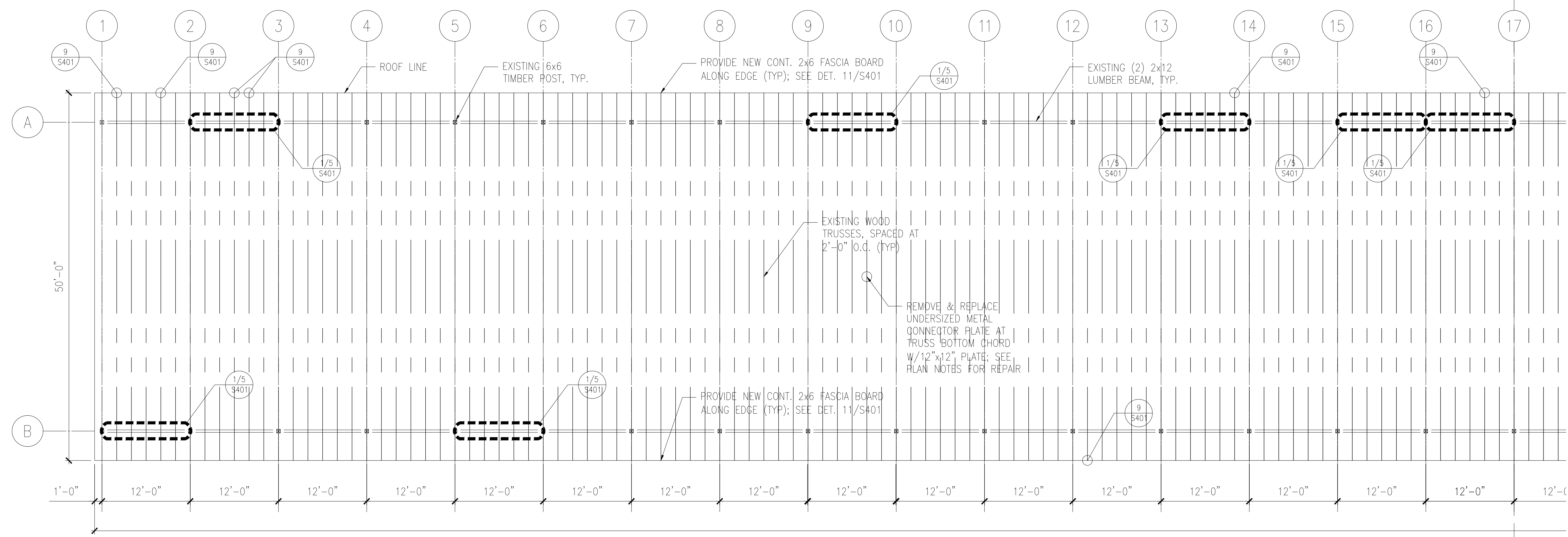
LAURA ISABEL BARBERO BUFFA
FL. PE NO. 74027

Sheet Title:

PISTOL RANGE REPAIR PLAN

S101

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.



1 PISTOL RANGE REPAIR PLAN
S101 SCALE: 1/8" = 1'-0"

PRINTED ON: []

REPAIR PLAN NOTES:

- SMALL HOLES IN METAL ROOF DECK (LESS THAN ONE INCH IN DIAMETER) SHALL BE REPAIRED USING AN ACRYLIC-BASED ROOF MASTIC. CONTRACTOR TO PROVIDE ALLOWANCE FOR 2 S.F. OF ROOF-DECK HOLE REPAIRS.
- CRACKED/DAMAGED METAL TRUSS CONNECTOR PLATES SHALL BE REPLACED W/NEW METAL CONNECTOR PLATES SIZED TO MATCH EXISTING. NEW METAL CONNECTOR PLATES SHALL CONFORM TO ASTM A653 FOR HOT-DIPPED GALVANIZED OR GALVANNEALED SHEET STEEL.
- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- GC TO COORDINATE NEW LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS. SEE 1/S402 FOR LIGHT MOUNTING BRACKET REINFORCEMENT.



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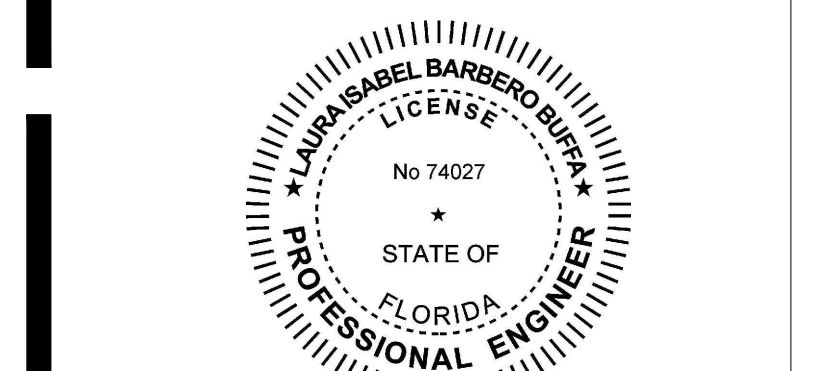
Client Information



Project Number 16123	Issue Date 03/24/17
Drawn By MR	Project Status BID/PERMIT DOCS
Checked By LBB	Scale AS SHOWN

File Name

Consultant • Seal/Signature

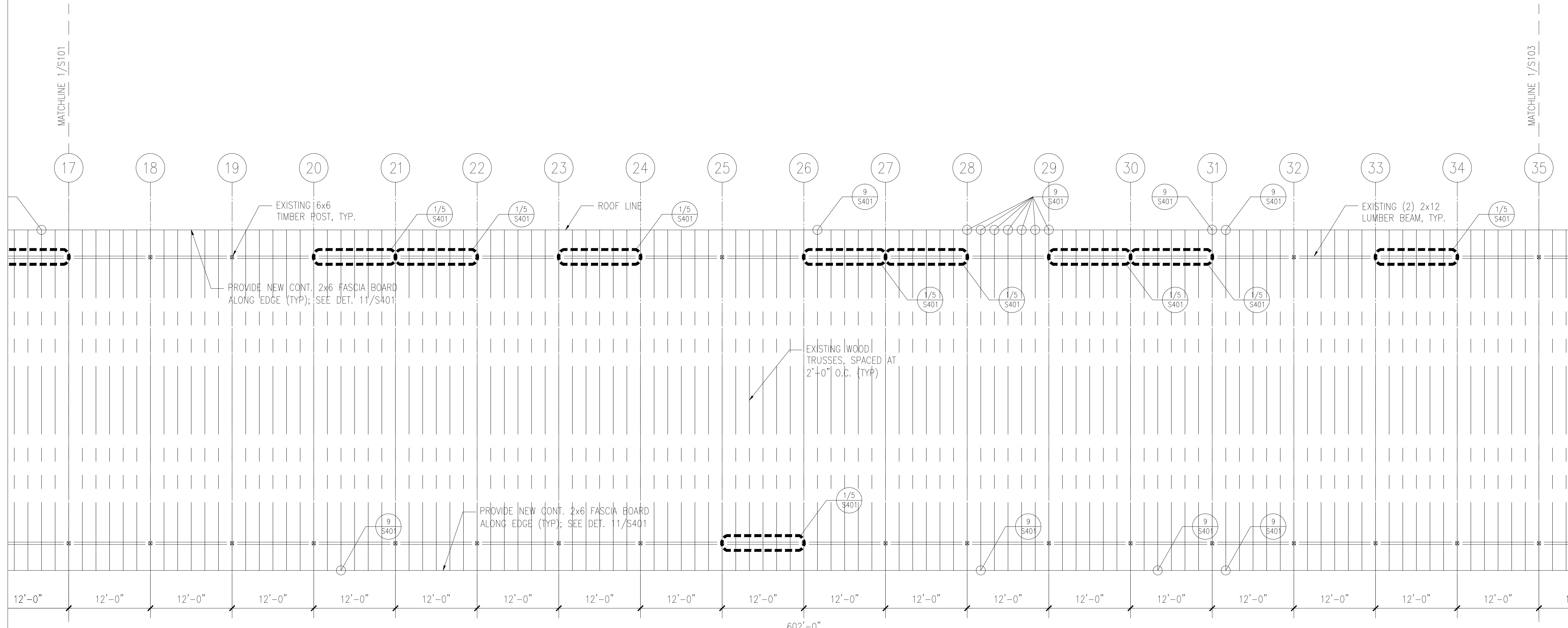


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FL. PE NO. 74027

Sheet Title:

PISTOL RANGE REPAIR PLAN

S102



TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

ARCHITECTURE • INTERIOR DESIGN • PLANNING • SPACE PLANNING

PRINTED ON:

1 PISTOL RANGE REPAIR PLAN
S102 SCALE: 1/8" = 1'-0"

REPAIR PLAN NOTES:

- SMALL HOLES IN METAL ROOF DECK (LESS THAN ONE INCH IN DIAMETER) SHALL BE REPAIRED USING AN ACRYLIC-BASED ROOF MASTIC. CONTRACTOR TO PROVIDE ALLOWANCE FOR 2 S.F. OF ROOF-DECK HOLE REPAIRS.
- CRACKED/DAMAGED METAL TRUSS CONNECTOR PLATES SHALL BE REPLACED W/NEW METAL CONNECTOR PLATES SIZED TO MATCH EXISTING. NEW METAL CONNECTOR PLATES SHALL CONFORM TO ASTM A653 FOR HOT-DIPPED GALVANIZED OR GALVANNEALED SHEET STEEL.
- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- GC TO COORDINATE NEW LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS. SEE 1/S402 FOR LIGHT MOUNTING BRACKET REINFORCEMENT.



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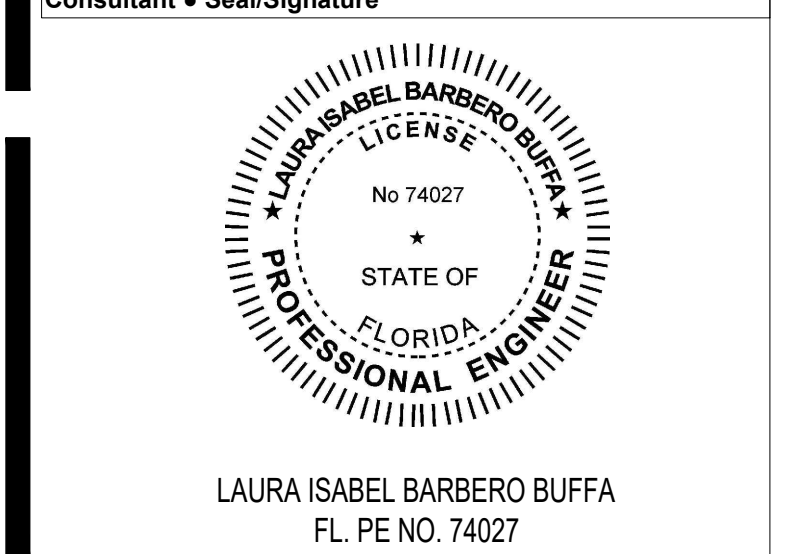
Client Information



Project Number 16123	Issue Date 03/24/17
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File Name

Consultant • Seal/Signature

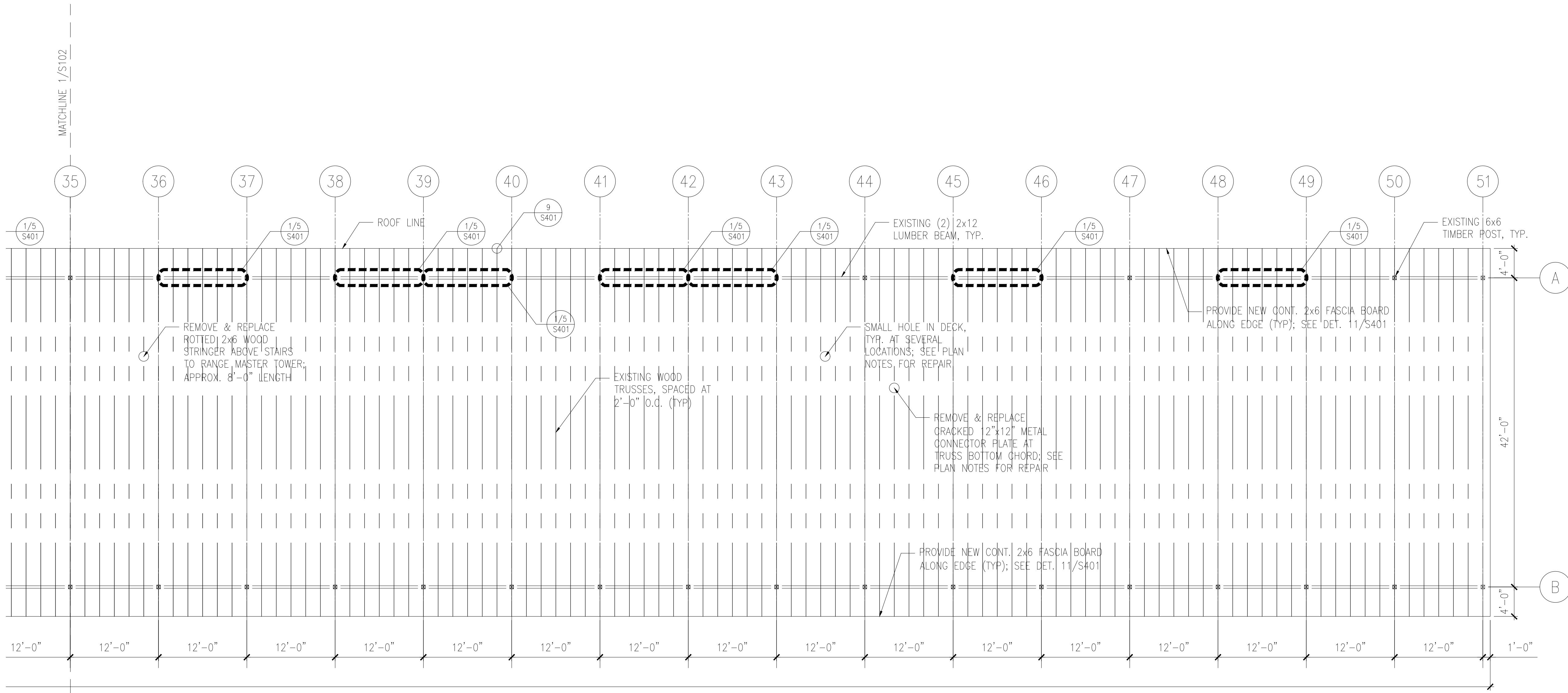


Sheet Title:

PISTOL RANGE REPAIR PLAN

S103

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

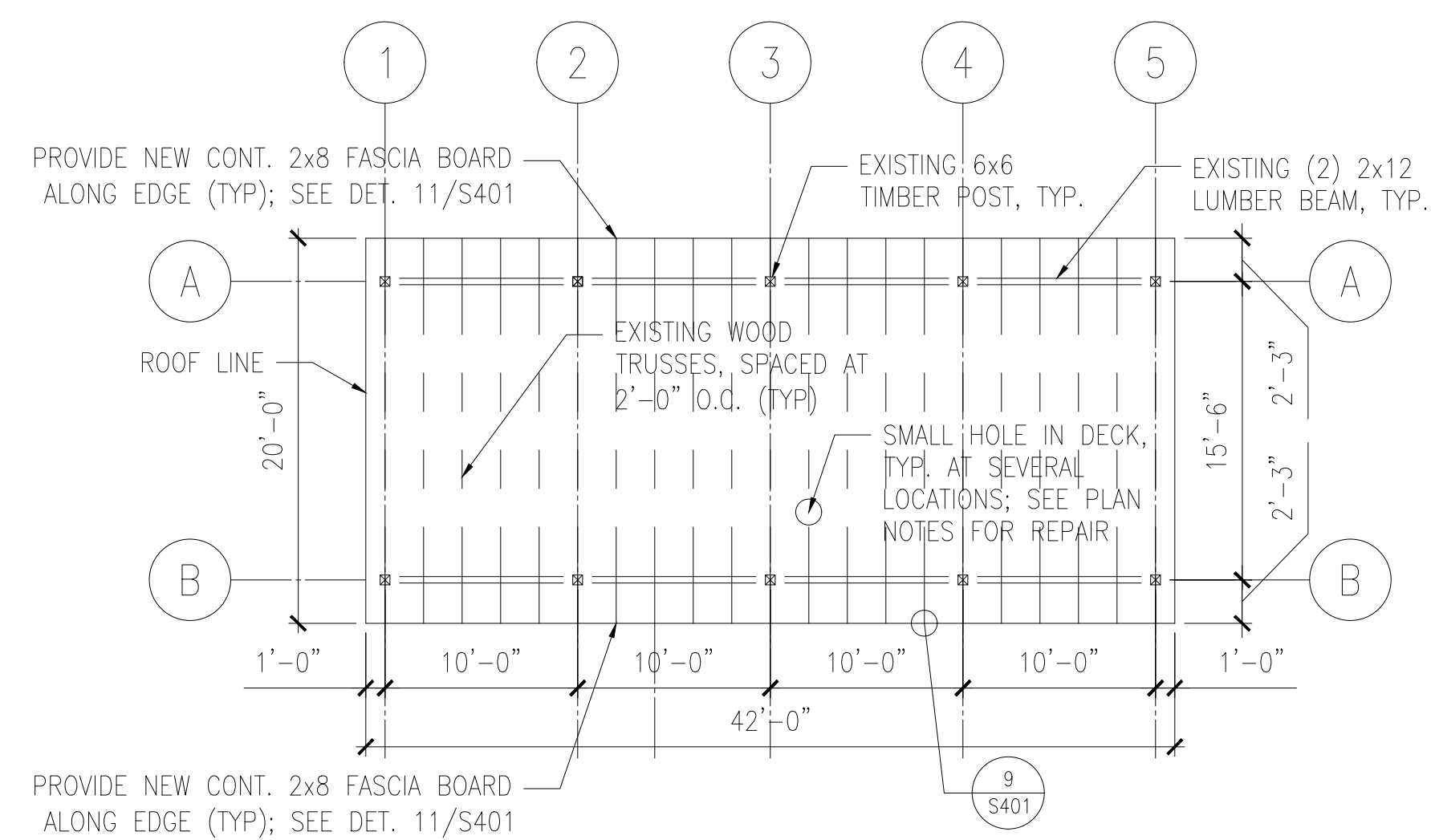


1 PISTOL RANGE REPAIR PLAN
SCALE: 1/8" = 1'-0"

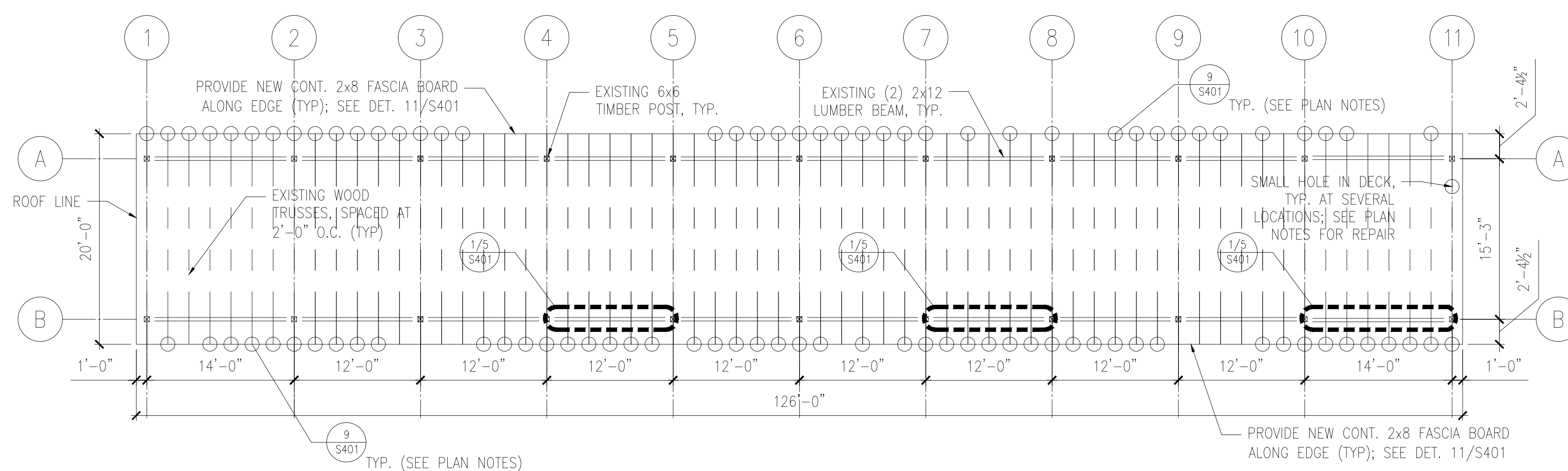
PRINTED ON:

REPAIR PLAN NOTES:

1. SMALL HOLES IN METAL ROOF DECK (LESS THAN ONE INCH IN DIAMETER) SHALL BE REPAIRED USING AN ACRYLIC-BASED ROOF MASTIC. CONTRACTOR TO PROVIDE ALLOWANCE FOR 2 S.F. OF ROOF-DECK HOLE REPAIRS.
2. ALL ITEMS MARKED WITH O AT THE ROOF EDGE REQUIRE A TRUSS TAIL REPAIR; SEE DET. 9/S401.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. GC TO COORDINATE NEW LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS. SEE 2/S402 FOR LIGHT MOUNTING BRACKET REINFORCEMENT.



2 RIFLE RANGE REPAIR PLAN
SCALE: 1/8" = 1'-0"



1 NORTH PPC BUILDING REPAIR PLAN
SCALE: 1/8" = 1'-0"

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

Architect Seal/Signature

Construction Documents for:

at:
ORANGE COUNTY SHERIFF'S GUN RANGE
EAST / WEST RANGE BUILDING
STRUCTURAL REPAIRS
12455 WEWAHOOTEE RD
ORLANDO, FL 32832

Issue	Date & Issue Description	Drawn By	Checked By
1	03.24.17	BID/PERMIT DOCS	LBB



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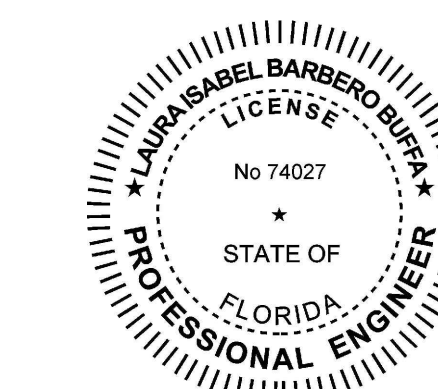
Client Information



Project Number 16123	Issue Date 03/24/17
Drawn By MR	Project Status BID/PERMIT DOCS
Checked By LBB	Scale AS SHOWN

File Name

Consultant Seal/Signature



LAURA ISABEL BARBERO BUFFA
FL. PE NO. 74027

Sheet Title:

NORTH PPC BLDG / RIFLE
RANGE REPAIR PLAN

S104

PRINTED ON:

Architect + Seal/Signature

Construction Documents for:

at:
ORANGE COUNTY SHERIFF'S GUN RANGE
EAST / WEST RANGE BUILDING
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Issue	Date & Issue Description	Drawn By	Checked By
1	03.24.17	BID/PERMIT DOCS	LBB



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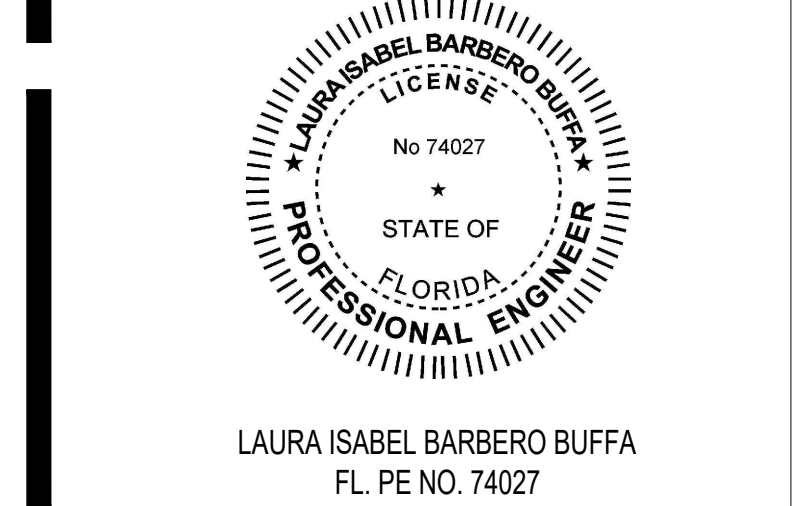
Project Number	Issue Date
16123	03/24/17

Drawn By	Project Status
MR	BID/PERMIT DOCS

Checked By	Scale
LBB	AS SHOWN

File Name

Consultant + Seal/Signature

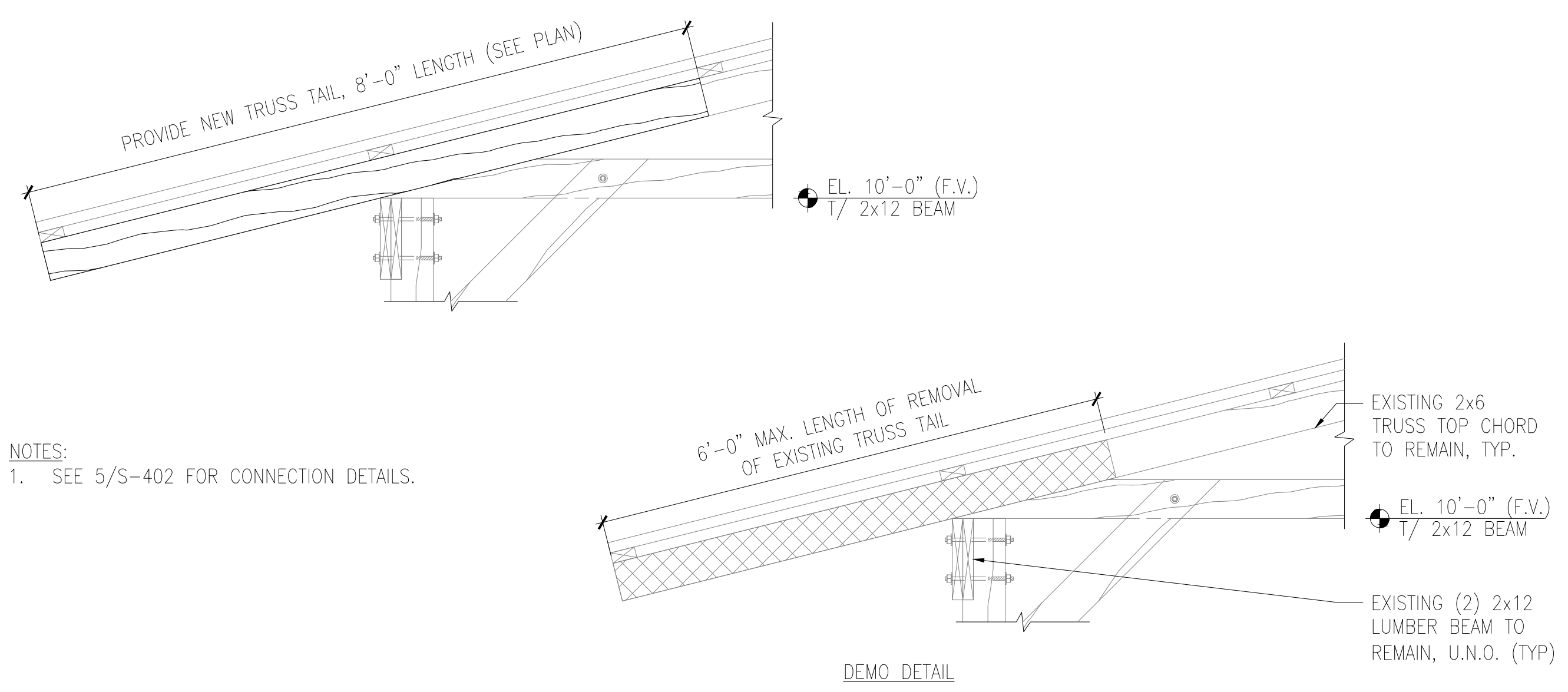


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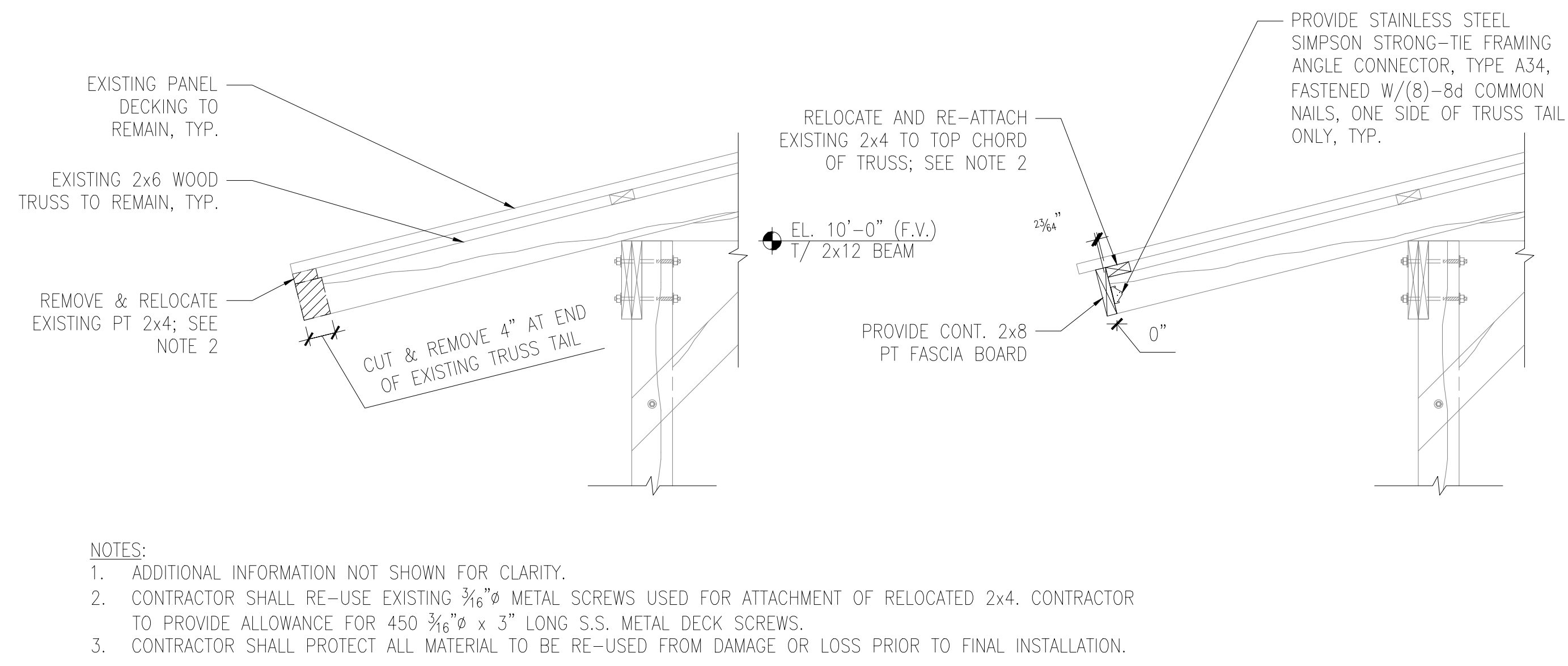
STRUCTURAL REPAIR DETAILS

S401

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.



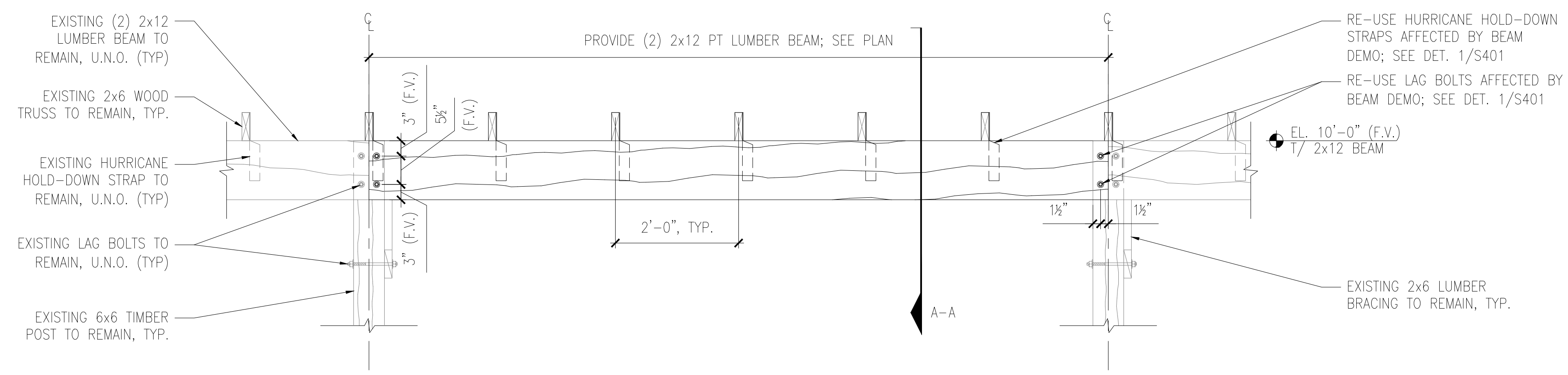
NOTES:
1. SEE 5/S-402 FOR CONNECTION DETAILS.



NOTES:
1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.
2. CONTRACTOR SHALL RE-USE EXISTING 3/16" Ø METAL SCREWS USED FOR ATTACHMENT OF RELOCATED 2x4. CONTRACTOR TO PROVIDE ALLOWANCE FOR 450 3/16" Ø x 3" LONG S.S. METAL DECK SCREWS.
3. CONTRACTOR SHALL PROTECT ALL MATERIAL TO BE RE-USED FROM DAMAGE OR LOSS PRIOR TO FINAL INSTALLATION.

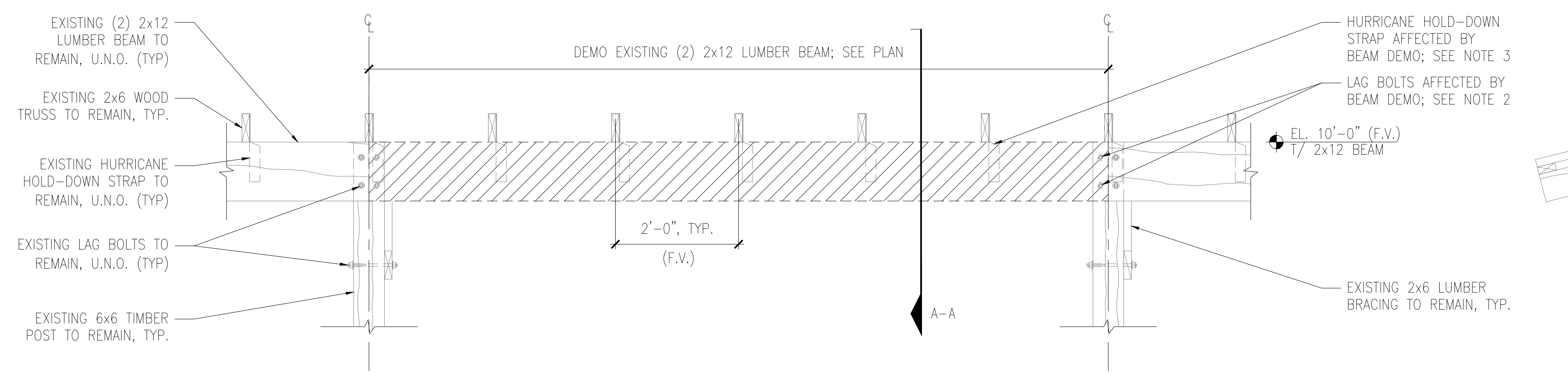
9 TYPICAL TRUSS TAIL REPAIR SCALE: NTS

11 TYPICAL FASCIA BOARD ATTACHMENT SCALE: NTS



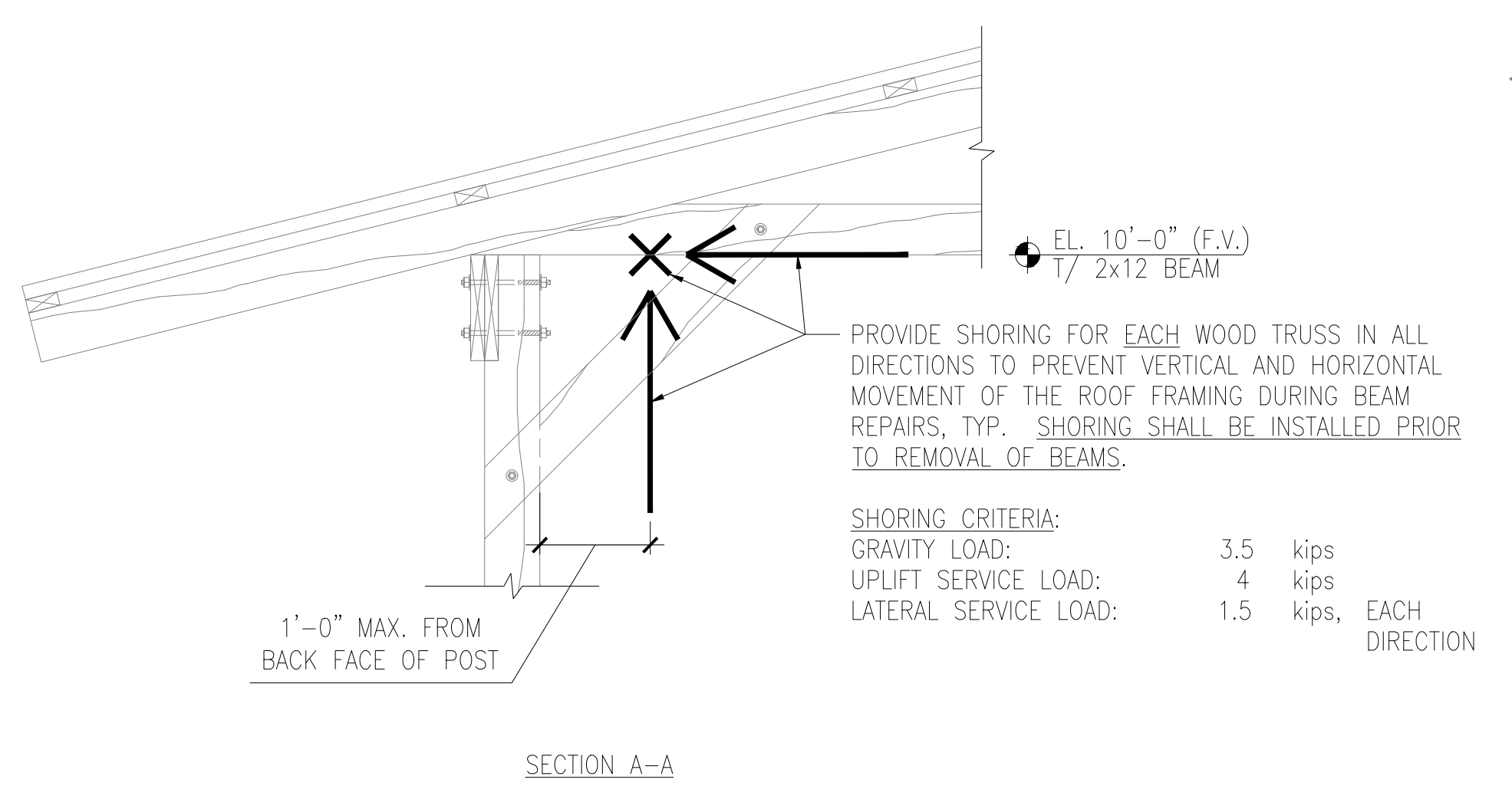
NOTES:
1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.
2. ALL NEW BEAMS SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE SHORING.

5 TYPICAL WOOD BEAM REPAIR - NEW SCALE: 3/4"=1'-0"



NOTES:
1. ADDITIONAL INFORMATION NOT SHOWN FOR CLARITY.
2. CONTRACTOR SHALL RE-USE ALL EXISTING LAG BOLTS AFFECTED BY LUMBER BEAM DEMO. CONTRACTOR TO PROVIDE ALLOWANCE FOR 25 NEW 1/2" Ø S.S. LAG BOLTS TO INCLUDE ASSOCIATED NUTS AND WASHERS REQUIRED.
3. CONTRACTOR SHALL RE-USE ALL EXISTING HURRICANE HOLD-DOWN STRAPS AFFECTED BY LUMBER BEAM DEMO, BUT SHALL PROVIDE NEW S.S. 10d COMMON NAILS FOR RE-ATTACHMENT OF HOLD-DOWN STRAPS TO NEW 2x12 LUMBER BEAMS. CONTRACTOR TO PROVIDE ALLOWANCE FOR 50 NEW GALV. SIMPSON MTS 12 HURRICANE HOLD-DOWN STRAPS.
4. CONTRACTOR SHALL PROTECT ALL MATERIAL TO BE RE-USED FROM DAMAGE OR LOSS PRIOR TO FINAL INSTALLATION.
5. ALL SHORING SHALL BE DESIGNED BY A SHORING ENGINEER LICENSED IN THE STATE OF FLORIDA. SEE GENERAL NOTES FOR MORE INFORMATION.

1 TYPICAL WOOD BEAM REPAIR - DEMO SCALE: NTS



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