

CORAL SHORES HIGH SCHOOL 89901 OLD HIGHWAY TAVERNIER, FL 33070

PERMIT SET

LOCATION MAP

VICINITY MAP



DRA	١WV	NG INDEX
ISSUED FOR:		
SET		
IMIT 3% F		
100 PEF		
017		
8/2		
02/C	GENE	RAI
	CS	COVER SHEET, DRAWING INDEX, CODE, SYMBOLS, LOCATION MAP
	A0.0.1	SPECIFICATIONS
	A0.0.2	ADA DETAILS
	CIVIL	
	C1.1.1	SITE PLAN
	C1.1.2	ENLARGED SITE CONCESSION STAND & ELECTRICAL ROOM
	C1.1.3	ENLARGED SITE POLE BARN & MATERIAL BINS
	. –	
	ARCH	IITECTURAL
	A2.1.1	POLE BARN FLOOR PLAN
	A2.1.2	ELECTRICAL ROOM FLOOR PLAN
	AZ.1.3	GROUND FLOOR MATERIAL BINS
	A3.1.1 A3.1.2	FUE BARN ELEVATIONS
	A3.3.1	BUILDING SECTIONS
	I	
	STRU	CTURAL
	S0.1.0	STRUCTURAL GENERAL NOTES
	S1.1.1	FOUNDATION PLANS & DETAILS
	S2.1.1	FRAMING LAYOUTS & DETAILS
	ELEC	
	E0.0.1 F1 2 1	ELECTRICAL ROOM & POLE BARN POWER PLANS
	E1.2.1	ELECTRICAL ROOM LIGHTING PLAN
	E6.1.1	EXISTING ELECTRICAL SCHEDULES & CALCULATIONS
	E6.1.2	NEW ELECTRICAL SCHEDULES & CALCULATIONS
	E6.1.3	ELECTRICAL DETAILS

SCOPE OF WORK

THE PURPOSE OF THESE DOCUMENTS IS TO MODIFY THE EXISTING CONCESSION STAND STRUCTURE TO SERVE THE NEEDS OF A NEW PROPOSED ELECTRICAL ROOM, PROVIDE A NEW MATERIAL BIN STORAGE AREA & POLE BARN THE WORK SHALL CONSIST OF EXTENSIVE EXTERIOR WORK. ARCHITECTURE, ELECTRICAL, PLUMBING AND CIVIL WORK REQUIRED.

	ARCHIT	ECT/EN	GINEER:
Ke Email: URL PR FL C Ba: Cleveland West M	chitecture, Interior I Asset Man Specialty C 1150 Virgin ey West, Flo Tel: 305.2 Fax: 305.2 infoKW@k : www.k2r OF. REG. A CERT. OF A Building Rela sed on Trust	Engineer Design, agement Consulting hia Street orida 330 92.7722 92.2162 (2mDesign A260016 AUTH. 30 ationships and Resu	N 5 S 1 ing, ., 40 gn.com com 059 0945 Its argo Key entonville
ARCI	HITECT SE		
S	cott C Maloney: Li Expiration Date: Fe	cense # AR931 sbruary 28, 201	¹⁶¹
Davia	ionoj		
	ions:		
CORAL SHORES HIGH SCHOOL	89901 OLD HIGHWAY TAVERNIER FI 33070		STORAGE/CONCESSION REMODEL
PLO	TTED: 2/8/201	17 4:59 PM	
Drav 2 Drav	wing Size 24x36 wn By: AD	Project 1617 Checke	: #: 72 ed By:
Title: D C(L	COVER RAWING ODE, SY OCATIC	SHEET S INDE MBOL	∑X S, ⊃
Sheet	t Number:	C	
Dete	Februar	J	7
©2017		, ∪, ∠∪ I	,

SECTION 06 1000 - ROUGH CARPENTRY

- 1.01 SUBMITTALS
- A. See Section 01300 Administrative Requirements, for submittal procedures B. Product Data: Provide technical data on insulated sheathing and wood preservative materials.
- 1.02 DELIVERY, STORAGE, AND HANDLING
- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, or installation.

- 2.01 GENERAL REQUIREMENTS
- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies
- 1. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
- 2.02 DIMENSION LUMBER
- A. Moisture Content: S-dry or MC19.
- B. Miscellaneous Blocking, Nailers, and Furring:
- 1. Lumber: S4S, No. 2 or Standard Grade. 2. Boards: Standard or No. 3.
- 2.03 CONSTRUCTION PANELS
- A. Roof Sheathing: 1/2 inch, nominal, unless noted otherwise, APA PRP-108,
- Structural I Rated Sheathing, Exterior Exposure Class. Span Rating: 32/16. B. Plywood Wall Sheathing: 1/2 inch, nominal, unless noted otherwise, APA Structural
- I Rated Sheathing, Exterior Exposure Class. Span Rating: 32/16. C. Insulated Wall Sheathing: Extruded polystyrene foam plastic, ASTM C 578, Type IV;
- tongue and groove long edges; 3/4 inch thick, unless noted otherwise. D. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less,
- smoke developed index of 450 or less, when tested in accordance with ASTM E84. 2.04 ACCESSORIES
- A. Fasteners and Anchors: Hot-dipped galvanized steel per ASTM A 153/A 153M for exterior applications and preservative-treated wood locations, unfinished steel elsewhere.
- 2.05 FACTORY WOOD TREATMENT
- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
- B. Fire Retardant Treatment
- 1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
- 2. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, Iow temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
- C. Preservative Treatment:
- 1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative to 0.25 lb/cu ft retention.
- Treat lumber in contact with roofing, flashing, or waterproofing.
- Treat lumber in contact with masonry or concrete. b.
- Treat lumber less than 18 inches above grade.
- 2. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative to 0.25 lb/cu ft retention.
- a. Treat plywood in contact with roofing, flashing, or waterproofing.
- Treat plywood in contact with masonry or concrete.
- c. Treat plywood less than 18 inches above grade.
- 3.01 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.
- C. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is indicated.
- D. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is indicated.
- E. Specifically, provide the following non-structural framing and blocking:
- 1. Handrails.
- 2. Grab bars.
- 3. Toilet room accessories.
- 3.02 ROOF-RELATED CARPENTRY
- A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation. 3.03 INSTALLATION OF CONSTRUCTION PANELS
- A. Roof Sheathing: Secure panels with long dimension perpendicular to framing
- members, with ends staggered and over firm bearing. 1. At long edges use sheathing clips where joints occur between roof framing members.
- 2. Screw panels to framing.
- B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using screws.
- C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches on
- center on all edges and into studs in field of board.
- SECTION 07 9200 JOINT SEALANTS
- 1.01 SUBMITTALS A. Product Data: Provide data indicating sealant performance criteria, substrate preparation, limitations, and color availability.
- 1.02 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years experience. B. Applicator Qualifications: Company specializing in performing the work of this
- section with minimum five years experience. 1.03 FIELD CONDITIONS
- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.
- 1.04 WARRANTY
- A. See Section 01780 Closeout Submittals, for additional warranty requirements. B. Correct defective work within a five year period after Date of Substantial Completion
- C. Warranty: Include coverage for installed sealants and accessories which fail to achieve weathertight seal, exhibit loss of adhesion or cohesion, or do not cure. 2.01 SEALANTS
- A. Sealants and Primers General: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.
- B. General Purpose Exterior Sealant: Polyurethane: ASTM C 920, Grade NS, Class 50, Uses M, O, and A; single, or multi- component. 1. Color: Match adjacent finished surfaces.

- 2. Applications: Use for:
- a. Control, expansion, and soft joints in masonry. b. Joints between concrete and other materials.
- c. Joints between metal frames and other materials. d. Other exterior joints for which no other sealant is indicated.
- C. Exterior Expansion Joint Sealer: Precompressed foam sealer; urethane with
- water-repellent: 1. Face color: Standard colors matching finished surfaces. 2. Size as required to provide weathertight seal when installed.
- 3. Applications: Use for:
- a. Exterior wall expansion joints.
- noncurina.
- 1. Applications: Use for:
- a. Concealed sealant bead in sheet metal work.
- b. Concealed sealant bead in siding overlaps. c. Conditions as indicated on drawings and specifications.
- E. General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C834, Type OP,
- Grade NF single component, paintable.
- 1. Applications: Use for:
- a. Interior wall and ceiling control joints.
- b. Joints between door and window frames and wall surfaces.
- F. Bathtub/Tile Sealant: Clear Silicone; ASTM C 920, Uses I, M and A; single
- component, mildew resistant.
- 1. Applications: Use for:
- b. Joints between kitchen and bath countertops and wall surfaces. G. Acoustical Sealant for Concealed Locations:
- 1. Applications: Use for concealed locations only: a. Sealant bead between top stud runner and structure and between bottom stud track and floor, where an STC rating is indicated.
- H. Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C920, Grade P. Class 25, Uses T, M and A; single component. 1. Approved by manufacturer for wide joints up to 1-1/2 inches.
- 2. Color: Match adjacent finished surfaces. 3. Applications: Use for:
- a. Expansion joints in floors.
- Uses T, I, M and A; single component. 1. Color: Color as selected.
- 2. Applications: Use for:
- a. Joints in sidewalks and vehicular paving. 2.02 ACCESSORIES
- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- manufacturer; compatible with joint forming materials.
- C. Joint Backing: Round foam rod compatible with sealant; closed cell polyethylene;
- oversized 30 to 50 percent larger than joint width. D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
- 3.01 EXAMINATION
- A. Verify that substrate surfaces and joint openings are ready to receive work. B. Verify that joint backing and release tapes are compatible with sealant. 3.02 PREPARATION
- A. Remove loose materials and foreign matter that could impair adhesion of sealant
- B. Clean and prime joints in accordance with manufacturer's instructions. C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Protect elements surrounding the work of this section from damage or disfigurement.
- 3.03 INSTALLATION

H. Tool joints concave.

3.04 CLEANING & PROTECTION

A. Clean adjacent soiled surfaces.

B. Protect sealants until cured.

details of adjoining work.

1. Material: Steel.

surface.

surface

1. Material: Steel.

concealed items.

2.02 WALL AND CEILING UNITS

2. Steel Finish: Primed.

4. Hardware:

3.01 EXAMINATION

3.02 INSTALLATION

indicated.

concealed items.

concealed items.

2.01 ACCESS DOOR AND PANEL APPLICATIONS

A. Walls, Unless Otherwise Indicated:

3. Standard duty, hinged door.

B. Walls in Wet Areas and Exterior:

3. Standard duty, hinged door.

wet locations and exterior.

4. Standard duty, hinged door.

with door surface flush with frame surface

surface.

1.01 SUBMITTALS

A. Perform work in accordance with sealant manufacturer's requirements for

paration of surfaces and material installa

- D. Exterior Metal Lap Joint Sealant: Butyl or polyisobutylene, nondrying, nonskinning,
- c. Other interior joints for which no other type of sealant is indicated.
- a. Joints between plumbing fixtures and floor and wall surfaces.
- I. Concrete Paving Joint Sealant: Polyurethane, self-leveling; ASTM C 920, Class 50,
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant
- B. Perform installation in accordance with ASTM C1193. C. Perform acoustical sealant application work in accordance with ASTM C919.
- D. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer. E. Install bond breaker where joint backing is not used. F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- G. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- I. Precompressed Foam Sealant: Do not stretch; avoid joints except at corners, ends, and intersections; install with face 1/8 to 1/4 inch below adjoining
- SECTION 08 3100 ACCESS DOORS & PANELS
- A. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and
- 2. Size: As indicated on the drawings or as necessary to allow access to
- 4. Tool-operated spring or cam lock; no handle. 5. In Gypsum Board: Drywall bead frame with door surface flush with wall
- 1. Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated. 2. Size: As indicated on the drawings or as necessary to allow access to
- 4. Tool-operated spring or cam lock; no handle. 5. In Gypsum Board: Drywall bead frame with door surface flush with wall
- 6. In Masonry, Tile, Concrete, EIFS or other surfaces: Surface mounted frame C. Ceilings, Unless Otherwise Indicated: Same type as for walls.
- 2. Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated, for use in
- 3. Size: As indicated on the drawings or as necessary to allow access to
- 5. Tool-operated spring or cam lock; no handle.
- A. Access Doors: Factory fabricated door and frame units, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies units are to be installed in. 1. Door Style: Single thickness with rolled or turned in edges.
- 3. Primed Finish: Polyester powder coat; manufacturer's standard color.
- a. Hinges for Non-Fire-Rated Units: Continuous piano hinge. b. Lock: Screw driver slot for auarter turn cam lock unless otherwise
- A. Verify that rough openings are correctly sized and located.
- A. Install units in accordance with manufacturer's instructions. B. Install frames plumb and level in openings. Secure rigidly in place.

- C. Position units to provide convenient access to the concealed work requiring access.
- SECTION 08 7100 DOOR HARDWARE 1.01 ADMINISTRATIVE REQUIREMENTS
- A. Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- C. Convey Owner's keying requirements to manufacturers.
- 1.02 SUBMITTALS
- A. Product Data: Manufacturer's catalog literature for each type of hardware,

3. Top Coat: MPI Latex Dry Fall; MPI #118, 155, 226.

2. One top coat.

1.02 SUBMITTALS

1.03 QUALITY ASSURANCE

2.01 MANUFACTURERS

1.01 SECTION INCLUDES

- marked to clearly show products to be furnished for this project B. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.
- C. Keying Schedule: Submit for approval of Owner. D. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
- 1.03 QUALITY ASSURANCE A. Manufacturer Qualifications: Company specializing in manufacturing the products
- specified in this section with minimum three years of experience. B. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.
- 2.01 DOOR HARDWARE GENERAL
- A. Provide all hardware specified or required to make doors fully functional. compliant with applicable codes, and secure to the extent indicated. B. Provide all items of a single type of the same model by the same
- manufacturer. C. Provide products that comply with the following:
- 1. Applicable provisions of federal, state, and local codes.
- 2. ADA Standards for Accessible Design.
- 3. ANSI/ICC A117.1. American National Standard for Accessible and Usable Buildings and Facilities. 4. Applicable provisions of NFPA 101, Life Safety Code.
- 5. Fire-Rated Doors: NFPA 80.
- 6. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for
- the purpose specified and indicated. 7. Hardware for Smoke and Draft Control Doors: Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
- 8. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated. D. Function: Lock and latch function numbers and descriptions of manufactures
- series as as shown on the drawings. E. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide 1.04 FIELD CONDITIONS wiring between hardware and control components and to building power
- connection. F. Finishes: Identified in schedule
- 2.02 HINGES A. Butt Hinges: Comply with BHMA A156.1 and A156.7; heavy weight, unless otherwise indicated
- 2.03 PUSH/PULLS
- A. Push/Pulls: Comply with BHMA A156.6.
- 1. On solid doors, provide matching push plate and pull plate on opposite faces. 2.04 LOCKS AND LATCHES A. Hardware Schedule indicates locking functions required for each door as defined
- in BHMA A156.2, 1. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.
- 2. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim. B. Lock Cylinders: Manufacturer's standard tumbler type, seven-pin interchangeable
- 1. Provide cams and/or tailpieces as required for locking devices required.
- C. Keying: System as directed by Owner.
- 1. Include construction keying.
- 2. Coordinate to existing keying system where one already exists 3. When providing keying information, comply with DHI Handbook "Keying systems and nomenclature".
- 2.05 EXIT DEVICES
- A. Locking Functions: Functions as defined in BHMA A156.3.
- 2.06 CLOSERS
- A. Closers: Complying with BHMA A156.4. 1. On pairs of swinging doors, if an overlapping astragal is present, provide coordinator to ensure the leaves close in proper order
- 2. At corridors, locate door-mounted closer on room side of door
- 3. At outswinging exterior doors, mount closer in inside of door.
- 2.08 STOPS AND HOLDERS
- A. Stops: Complying with BHMA A156.8; provide a stop for every swinging door, unless otherwise indicated. Provide wall stops, unless otherwise indicated. 2.09 GASKETING AND THRESHOLDS
- A. Gaskets: Complying with BHMA A156.22.
- 1. On each door in smoke partition, provide smoke gaskets; top, sides, and meeting stile of pairs. If fire/smoke partitions are not indicated on drawings, provide smoke gaskets on each door identified as a "smoke door" and 20-minute rated fire doors.
- 2. On each exterior door, provide weatherstripping gaskets, unless otherwise indicated; top, sides, and meeting stiles of pairs.
- 3. On each exterior door, provide door bottom sweep, unless otherwise indicated. B. Thresholds:
- 1. At each exterior door, provide a threshold unless otherwise indicated. 2. Field cut threshold to frame for tight fit.
- C. Fasteners At Exterior Locations: Non-corroding.
- 2.10 PROTECTION PLATES AND ARCHITECTURAL TRIM A. Drip Guard: Provide projecting drip guard over all exterior doors unless they are under a projecting roof or canopy.
- 2.11 KEY CONTROLS
- A. Fire Department Lock Box: Heavy-duty, surface mounted, solid stainless-steel box with hinged door and interior gasket seal; single drill resistant lock with dust covers and tamper alarm. 1. Capacity: Holds 2 keys.
- 2. Finish: Manufacturer's standard black.
- 3.01 EXAMINATION

NFPA 80.

item:

3.03 ADJUSTING

complete seal.

- A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as instructed by the manufacturer. 2.04 PAINT SYSTEMS - INTERIOR
- B. Verify that electric power is available to power operated devices and of the correct characteristics. 3.02 INSTALLATION
- A. Install hardware in accordance with manufacturer's instructions and applicable codes B. Use templates provided by hardware item manufacturer.

D. Install hardware on fire-rated doors and frames in accordance with code and

E. Mounting heights for hardware from finished floor to center line of hardware

B. Adjust gasketing for complete, continuous seal; replace if unable to make

Architectural Hardware for Steel Doors and Frames.

Hardware for Wood Flush Doors.

A. Adjust hardware for smooth operation.

1. For steel doors and frames: Comply with DHI "Recommended Locations for

2. For wood doors: Comply with DHI "Recommended Locations for Architectural

C. Do not install surface mounted items until finishes applied to substrate are complete.

			ARCHITECT/ENGINEER:
SECT	FION 09 9100 - PAINTS AND COATINGS		
.01	SECTION INCLUDES	4. Flat: MPI gloss level 1; use this sheen, unless noted otherwise. D Transparent Finish on Wood, Unless Otherwise Indicated:	
A. 3 f	actory—finished and unless otherwise indicated, including the following:	1. Stain: MPI Semi-Transparent Stain for Wood; MPI #90.	
1	1. Exposed surfaces of steel lintels and ledge angles. 2. Prime surfaces to receive wall coverinas.	2. Top Coat(s): MPI Clear Water Based Varnish; MPI #128, 129, 130. 3. Satin: MPI gloss level 4: use this sheen unless noted otherwise	Architecture, Engineering,
	3. Mechanical and Electrical:	E. Wood, Opaque, Latex, 3 Coat:	Interior Design, Asset Management,
	insulated and exposed ducts, hangers, brackets, collars and supports,	1. One coat of latex primer sealer. 2. Semi-aloss: Two coats of latex enamel: MPI # 54.	Specialty Consulting
	mechanical equipment, and electrical equipment, unless otherwise indicated. b. In finished areas, paint shop-primed items.	F. Concrete/Masonry, Opaque, Latex, 3 Coat:	1150 Virginia Street
	c. On the roof and outdoors, paint all equipment that is exposed to weather	1. One coat of block filler. 2. Flat: Two coats of latex enamel: MPI # 53.	Key West, Florida 33040 Tel: 305.292.7722
B. [Do Not Paint or Finish the Following Items:	G. Ferrous Metals, Unprimed, Latex, 3 Coat:"	Fax: 305.292.2162 Email: infoKW@k2mDesign.com
1	I. Items fully factory—finished unless specifically so indicated; materials and products having factory—applied primers are not considered factory finished.	2. Semi-gloss: Two coats of latex enamel; MPI # 153.	URL: www.k2mDesign.com
-	2. Items indicated to receive other finishes.	H. Ferrous Metals, Primed, Latex, 2 Coat:	FL CERT. OF AUTH. 30945
2	4. Fire rating labels, equipment serial number and capacity labels, and operating	2. Semi-gloss: Two coats of latex enamel; MPI # 153.	Building Relationships
ŗ	parts of equipment. 5. Floors, unless specifically so indicated.	I. Galvanized Metals, Latex, 3 Coat:	Based on Trust and Results Cleveland Columbus Indianapolis Key Largo Key
6	3. Glass. 7. Concepted pipes, ducts, and conduits	2. Semi-gloss: Two coats of latex enamel; MPI # 153.	West Marathon Charlotte Baltimore Bentonville
.02 \$	SUBMITTALS	J. Gypsum Board/Plaster, Latex, 3 Coat:	
A.F i	² roduct Data: Provide complete list of all products to be used, with the following nformation for each:	2. Eggshell: Two coats of latex enamel; MPI # 52.	ARCHITECT SEAL:
1	I. Manufacturer's name, product name and/or catalog number, and general	K. Fabrics/Insulation Jackets, Alkyd, 3 Coat:	
	2. MPI product number	2. Flat: Two coats of alkyd enamel; MPI # 49.	
	 Cross-reference to specified paint system(s) product is to be used in; include description of each system. 	2.05 ACCESSORY MATERIALS A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths,	
B. S	Samples: Submit three paper "drop" samples, $8-1/2$ by 11 inches in size,	sanding materials, and clean—up materials required to achieve the finishes	
1	1. Where sheen is specified, submit samples in only that sheen.	B. Patching Material: Latex filler.	Scott C Malonav: License # AD03161
4	2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required.	C.Fastener Head Cover Material: Latex filler.	Expiration Date: February 28, 2018
C. N	Maintenance Materials: Furnish the following for Owner's use in maintenance of	3.01 EXAMINATION	
F 1	1. Extra Paint and Coatings: 1 gallon of each color and type; store where	B. Verify that surfaces are ready to receive work as instructed by the product	
	directed. 2. Label each container with color, type, texture, and room locations in addition	manufacturer. C. Examine surfaces scheduled to be finished prior to commencement of work.	
	to the manufacturer's label.	Report any condition that may potentially affect proper application.	
.03 (A. A	QUALITY ASSURANCE Applicator Qualifications: Company specializing in performing the type of work	E. Measure moisture content of surfaces using an electronic moisture meter. Do not	
S ∩4 I	specified with minimum three years experience.	apply finishes unless moisture content of surfaces are below the following maximums:	
A. [Do not apply materials when surface and ambient temperatures are outside the	1. Gypsum Wallboard: 12 percent. 2. Plaster and Stucce: 12 percent	
t B. F	emperature ranges required by the paint product manufacturer. Follow manufacturer's recommended procedures for producing best results,	3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.	Revisions:
i t	ncluding testing of substrates, moisture in substrates, and humidity and temperature limitations.	4. Interior Wood: 15 percent, measured in accordance with ASTM D4442. 5. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.	
		3.02 PREPARATION	
2.01 I A. F	MANUFACTURERS Provide all paint and coating products from the same manufacturer to the	A. Clean surfaces thoroughly and correct defects prior to coating application. B. Prepare surfaces using the methods recommended by the manufacturer for	
, (jreatest extent possible.	achieving the best result for the substrate under the project conditions.	
2.02 I A. F	Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed	D. Remove or mask surface appurtenances, including electrical plates, hardware, light	
c 1	coating. 1. Where MPI paint numbers are specified, provide products listed in Master	fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing. E. Seal surfaces that might cause bleed through or staining of topcoat.	
	Painters Institute Approved Product List, current edition available at	F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and pleach. Rinse with clean water and allow surface to	
4	2. Provide paints and coatings of a soft paste consistency, capable of being	dry.	
	brushing properties, and capable of drying or curing free of streaks or sags.	scale, salt or alkali powder, and other foreign matter. Remove airt, loose mortar,	
	3. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by	with a solution of tri—sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium	
	manufacturer based on testing and field experience.	metasilicate after thoroughly wetting with water. Allow to dry. H Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound	
2	work from a single production run.	Spot prime defects after repair.	
Į.	5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.	i. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash	
B. F	Primers: Where the manufacturer offers options on primers for a particular	and neutralize high alkali surfaces. J. Insulated Coverings to be Painted: Remove dirt, grease, and oil from canvas and	
د ۲. ۱	Volatile Organic Compound (VOC) Content:	cotton. K Aluminum Surfaces to be Painted: Remove surface contamination by steam or	
1	I. Provide coatings that comply with the most stringent requirements specified in the following:	high pressure water. Remove oxidation with acid etch and solvent washing. Apply	Q X
	a. 40 CFR 59, Subpart D——National Volatile Organic Compound Emission	L. Galvanized Surfaces to be Painted: Remove surface contamination and oils and	
	2. Determination of VOC Content: Testing and calculation in accordance with 40	wash with solvent. Apply coat of etching primer. M.Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC	00×0 R
	CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site: or other method acceptable to	2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP	
DF	authorities having jurisdiction. Flammability: Comply with applicable code for surface burning characteristics	N. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill	15 ₹ 0 33
E. S	Sheens: Provide the sheens specified; where sheen is not specified, sheen will be	scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent.	
s F. (selected later by Architect from the manufacturer's full line. Colors: As indicated on drawings	Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.	
2.03	PAINT SYSTEMS - EXTERIOR	0. Shop—Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove	S C R II
А. <i>А</i> (The exterior concrete and masonry surfaces indicated to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry, and cement board.	Clean surfaces with solvent. Prime bare steel surfaces.	
1	 Preparation as specified by manufacturer. Two top coats and one coat primer recommended by manufacturer. 	priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes	
-	3. Top Coat(s): MPI Exterior Latex (MPI # 10, 11, 15, 119, 214).	ana cracks atter primer nas aried; sand between coats. Back prime concealed surfaces before installation.	H OB C
2	+. Primer un concrete and Concrete Masonry: Une heavy coat latex block filler (100 percent acrylic) squeegeed into pores.	Q.Interior Wood Surfaces to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail	SI 39, 20
B. \ 1	Nood, Opaque, Latex, 3 Coat: 1. One coat of latex primer sealer	holes and cracks after sealer has dried; sand lightly between coats. Prime	
4	2. Semi-gloss: Two coats of latex enamel; MPI # 11.	R. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign	
C. (Jypsum Board and Plaster, Opaque, Latex, 3 Coat: 1. One coat of latex primer sealer.	exterior calking compound after prime coat has been applied. Back prime	R R
4	2. Flat: Two coats of latex; MPI # 10.	concealed surfaces before installation. S. Wood Doors to be Field—Finished: Seal wood door top and bottom edge surfaces	
D. F 1	1. One coat of latex primer.	with clear sealer. T. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.	
5	2. Semi—gloss: Two coats of latex enamel; MPI # 163. Forceus Matals, Primod, Latex, 2. Coat:	3.03 APPLICATION	0)
1	I. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.	A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.	
Ϋ́ F (2. Semi-gloss: Two coats of latex enamel; MPI # 163. Galvanized Metals. Latex. 3 Coat:	B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and	
1	I. One coat galvanize primer.	final coating within 4 weeks.	PLOTTED: 2/8/2017 4:56 PM
2 2.04	2. Semi—gloss: Two coats of latex enamel; MPI	D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry	Drawing Size Project #: 24x36 16172
A. /	All Interior Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including	before next coat is applied. E. Apply each coat to uniform appearance.	Drawn By: Checked By:
	shop primed steel, and galvanized steel.	F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified,	AD LW
1	 Iwo top coats and one coat primer. Primer(s): As recommended by manufacturer of top coats 	G. Sand wood and metal surfaces lightly between coats to achieve required finish.	Title:
B. N	Medium Duty Door/Trim:	H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.	SPECIFICATIONS
1	 Medium duty applications include doors, door frames, railings, handrails, guardrails, and balustrades 	I. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the argin before set. Wine excess from surface	
-	2. Two top coats and one coat primer. 3. Top Coat(s): MPL High Performance Architectural Interior Later MPL #470.440	J. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and	
	141.	3.04 PROTECTION	Sheet Number:
2	7. Semi-Gloss: MPI gloss level 5; use this sheen, unless noted otherwise. 5. Primer(s): As recommended by manufacturer of top coats.	A. Protect finished coatings until completion of project. B. Touch-up damaged coatings after Substantial Completion	
C. [)ry Fall: Metals; exposed structure and overhead-mounted services, including shop	2. Touch ap damaged coulings arter substantial completion.	A()()1
Р С	zonduit, and galvanized piping.		,
1	1. Snop primer by others.		Date: February 8, 2017

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces 403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302. 403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of

403.4 Changes in Level. Changes in level shall comply with 303.

walking surfaces shall not be steeper than 1:48.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.



Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum



403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not



404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.



Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.



Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4. 404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12. 405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum. 405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run.

Landings shall comply with 405.7.



Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted. 405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum. 405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum. 405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering

clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505. 405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings. 405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail



Figure 405.9.1 Extended Floor or Ground Surface Edge Protection



ARCHITECT/ENGINEER:

A0.0.2

Date: February 8, 2017

©2017 by k2m Design, Inc.

36 min

406 Curb Ramps

and 405.10.



Figure 406.4 Landings at the Top of Curb Ramps 406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb

ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides. 406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other

well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.



Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.



Figure 406.7 Islands in Crossings





©2017 by k2m Design, Inc.

— WTR ——

LOCATION OF EXISTING FKEC ELECTRICAL RISER POLE & ---TRANSFORMER TO REMAIN.

EXISTING STRUCTURE TO BE REMOVED. REROUTE ALL EXISTING SERVICES CONDUIT & CONDUCTORS TO NEW ELECTRICAL ROOM LOCATION. IN GROUND PULL BOXES MAY BE USED AS A JUNCTION BETWEEN EXISTING Conduits and new conduits running to -JELECTRICAL ROOM. ALL IN GROUND BOXES MUST BE WEATHERPROOF, TAMPERPROOF (LOCKABLE) AND TRAFFIC RATED. POLARIS TAPS ARE ACCEPTABLE WITHIN J-BOXES FOR CONNECTORS.

EXISTING EDUCATIONAL BUILDINGS TO REMAIN



WRENN STREET



ARCHITECT/ENGINEEI
K <u>2</u> M
Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting
1150 Virginia Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162 Email: infoKW@k2mDesign.com URL: www.k2mDesign.com PROF. REG. AA26001059 FL CERT. OF AUTH. 30945
Building Relationships Based on Trust and Results
Cleveland Columbus Indianapolis Key Largo Key West Marathon Charlotte Baltimore Bentonville
ENGINEER SEAL: N. S. GRASSING No 73110 Mono Masky &

STATE O

LIC #: 73110 COA: 30945 Expiration Date: February 28,2018

STORAGE/CONCESSION REMODEI

SHORES HIGH SCHOOL 89901 OLD HIGHWAY TAVERNIER, FL 33070

CORAL

 Drawing Size
 Project #:

 24x36
 16172

ENLARGED SITE CONCESSION STAND & ELECTRICAL ROOM

C1.1.2

Date: February 8, 2017

©2017 by k2m Design, Inc.

Checked By PB

Drawn By: _{LW}

Sheet Number:

Title:

Revisions:

NOTE

- 1. IDENTIFY, RELOCATE AND REUSE ELECTRICAL CONDUIT & CONDUCTORS FOR POLE BARN IF FOUND TO BE IN WORKING AND LIKE NEW CONDITION. TRACE AND LABEL ALL NEW CIRCUITS SERVING POLE BARN.
- 2. ALL EXTERIOR MOUNTED ELECTRICAL FIXTURES SHALL BE MIN. NEMA 3R RATED.
- 3. ALL NEW UNDERGROUND ELECTRICAL CONDUITS SHALL MATCH EXISTING SIZES AND BE BURIED 18" MIN. & 24" MIN. UNDER DRIVABLE SURFACES.

LEGEND:	
	PROPERTY LINE
—— E——	UNDERGROUND ELECTRICAL
OHP	OVERHEAD POWER LINE
	FENCE LINE
	SETBACK LINE
WTR	UNDERGROUND WATER LINE



SITE PLAN - POLE BARN AND MATERIAL BINS

SCALE: 1"=10'-0"

NOTE: 1. IDENTIFY, RELOCATE AND REUSE WASTEWATER PLANT ELECTRICAL CONDUIT & CONDUCTORS FOR POLE BARN IF FOUND TO BE IN WORKING AND LIKE NEW CONDITION. TRACE AND LABEL ALL CIRCUITS TO PANEL BOARDS LOCATED AT CONCESSION

2. ALL EXTERIOR MOUNTED ELECTRICAL FIXTURES SHALL BE MIN. NEMA 3R RATED.

3. ALL NEW UNDERGROUND ELECTRICAL CONDUITS SHALL MATCH EXISTING SIZES AND BE BURIED 18" MIN. & 24" UNDER DRIVABLE SURFACES.

LEGEND:	
	PROPERTY LINE
—— E——	UNDERGROUND ELECTRICAL
OHP	OVERHEAD POWER LINE
	FENCE LINE
	SETBACK LINE
WTR	UNDERGROUND WATER LINE

Date: February 8, 2017 ©2017 by k2m Design, Inc.





Date: February 8, 2017

DOOR SCHEDULE										
	DOOR			FRAME						
MARK		S	IZE					FIRE		
NO.	DESCRIPTION	WIDTH	HEIGHT	FINISH	MATL	FINISH	CASING	RATING		
001	STEEL DOOR & FRAME TO MATCH EXISTING ADJACENT DOORS	3'-0"	7'-0"	MANUF.	HOLLOW METAL	PAINT			SET 1	PAI

NOTE: 1. ALL DOORS TO MEET OPENING FORCE ACCESSIBILITY REQUIREMENTS. 2. SET DOORS 4" OFF WALL UNLESS NOTED OTHERWISE. 3. CONTRACTOR TO VERIFY DOOR ROUGH OPENINGS PRIOR TO DOOR ORDER.

DOOR HARDWARE SET #1							
QTY.	DESCRIPTION	FINISH	MANUFACTURER	MODEL #	NOTES		
1	STOREROOM LOCKSET W/ LEVER & IC CORE	US32D	SCHLAGE	ND SERIES	PROVIDED BY OWNER		
4	STAINLESS STEEL HEAVY DUTY 4.5"X4.5" BALL BEARING HINGES	US32D	IVES	5BB1HW	MATCH EXSITING ADJACENT DOORS		
1	ALUMINUM BUMPER THRESHOLD	US28 (CLR)	HAGER	478S V 36X84 DBA	MATCH EXSITING ADJACENT DOORS HAGER OR STANLEY EQUAL IS ACCEPTABLE		
1	ALUMINUM WEATHER STRIPPING AT JAMB	US28 (CLR)	HAGER	891S V 36X84 DBA	MATCH EXSITING ADJACENT DOORS		
1	INTERLOCKING OVERHEAD DRIP GUARD	US28 (CLR)	HAGER	810S	MATCH EXSITING ADJACENT DOORS		
1	ALUMINUM DOOR CLOSER	US28		LCN4040	MATCH EXSITING ADJACENT DOORS		





NOTES

AINT TO MATCH ADJACENT WALLS

CONSTRUCTION NOTES

1. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT (OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS

2. PROVIDE FIRE EXTINGUISHER CABINETS AS PER CODE. FINAL QUANTITY AND LOCATION IS SUBJECT TO APPROVAL OF THE BURE OF THE MUNICIPAL AGENCY HAVING JURISDICTION.

3. ALL NEW WALLS ARE TO BE BUILDING STANDARD 8" CMU BLC CORNERS & EVERY OTHER CELL W/ #5 VERTICAL REBAR & GROUNDED.

		ARCHITECT/ENGINEER:
	CODED NOTES X	K 2 N / =
NDITIONS SHOWN ON OF ANY DISCREPANCIES, PROJECT.	1 NEW 8" CMU BLOCK WALL W/ 1/4" STUCCO (2) COAT SYSTEM W/ SMOOTH FINISH. PAINTED TO MATCH EXISTING ADJACENT CONCESSION STAND WALLS W/ BENJAMIN MOORE PAINT COLOR PROVIDED BY OWNER.	Architecture, Engineering, Interior Design, Asset Management,
_ DETERMINATION OF REAU OF FIRE PREVENTION	2 NEW ELECTRICAL METER LOCATIONS. SEE SHEET E6.1.2	Specialty Consulting 1150 Virginia Street
OCK WALLS. FILL ALL OUT, UNLESS OTHERWISE	3 NEW DISCONNECT LOCATIONS. SEE SHEET E6.1.2	Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162
	4 NEW ELECTRICAL PANEL LOCATION. SEE SHEET E6.1.2	Email: infoKW@k2mDesign.com URL: www.k2mDesign.com PROF. REG. AA26001059 EL CERT. OF AUTH 30945
	6 NEW CONCRETE 8" SLAB. SEE A/S1.1.1 & B/S.1.1.1	Building Relationships Based on Trust and Results
	7 NEW ADA RAMP LOCATION. SEE ADA-1	Cleveland Columbus Indianapolis Key Largo Key West Marathon Charlotte Baltimore Bentonville
	8 NEW CONCRETE 6" SLAB ON GRADE W/ 6"X6"X10"/10" WELDED WIRE MESH. – TYP.	ARCHITECT SEAL:
	,	
		Scott C Maloney: License # AR93161 Expiration Date: February 28, 2018







<u>NOTE:</u> DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED



©2017 by k2m Design, Inc.

Revisions:



CONSTRUCTION NOTES

 CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL COND DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT O OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS F
 ALL NEW WALLS ARE TO BE BUILDING STANDARD 8" CMU BLOC CORNERS & EVERY OTHER CELL W/ #5 VERTICAL REBAR & GROU NOTED.





		ARCHITECT/ENGINEER:
	CODED NOTES X	
NDITIONS SHOWN ON OF ANY DISCREPANCIES, S PROJECT.	1 NEW 8" CMU BLOCK WALL W/ BOND BEAM AT TOP. PAINTED TO MATCH EXISTING CONCESSION STAND WALLS W/ BENJAMIN MOORE PAINT COLOR PROVIDED BY OWNER. 2 NEW CONCRETE SLAB. SEE STRUCTURAL	Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting
LUCK WALLS. FILL ALL ROUT, UNLESS OTHERWISE		1150 Virginia Street Key West, Florida 33040

•
Tel: 305.292.7722
Fax: 305.292.2162
Email: infoKW@k2mDesign.con
URL: www.k2mDesign.com
PROF. REG. AA26001059
FL CERT. OF AUTH. 30945

Building Relationships Based on Trust and Results Cleveland | Columbus | Indianapolis | Key Largo | Key West | Marathon | Charlotte | Baltimore | Bentonville

Sca E	ott C Malor piration Da	SEAL	e # AR93161 ry 28, 2018
Revision	ons:		
CORAL SHORES HIGH SCHOOL	89901 OLD HIGHWAY	TAVERNIER, FL 33070	STORAGE/CONCESSION REMODEL
Draw 24	ving Si ^{1x36}	ze P	Project #: 16172
Title:	льу. JB		LW
GF	ROUI	ND FI RIAL	_OOR BINS
Sheet	Numb	er:	
А	2	_ 1	3
Date:	Febru	uary 8	, 2017

©2017 by k2m Design, Inc.

 $= \frac{0 \quad 4 \quad 8 \quad 12}{\text{GRAPHIC SCALE: } 1/4" = 1'-0"}$

<u>NOTE:</u> DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS OTHERWISE NOTED

NEW WALL. REFER TO GENERAL NOTES.

PLAN LEGEND:









CONSTRUCTION NOTES

1. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONDITIONS SHOWN DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCRET OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS PROJECT. 3. ALL NEW PRESSURE TREATED TIMBER POLES SHALL BE CEMENTED INTO PLAC MINIMUM OF 3' OF EMBEDMENT INTO CAP ROCK.

		ARCHITECT/ENGINEER:
		K22Ngg Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting 1150 Virginia Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162 Email: infoKW@k2mDesign.com VRL: www.k2mDesign.com VRL: www.k2mDesign.com PROF. REG. AA26001059 FL CERT. OF AUTH. 30945
		ARCHITECT SEAL:
		Scott C Maloney: License # AR93161 Expiration Date: February 28, 2018
	TOP OF ROOF 15'-10 1/2"	Revisions:
		CORAL SHORES HIGH SCHOOL 89901 OLD HIGHWAY TAVERNIER, FL 33070 STORAGE/CONCESSION REMODEL
/N ON	 GALVANIZED METAL ROOF. FINISH TO MATCH EXISTING SCHOOL BUILDINGS. 12' PRESSURE TREATED TIMBER POLES SET IN AUGER HOLES. SEE C/S1.1.1 (3) 2X10 PRESSURE TREATED WOOD TIMBERS W/ (3) 12D @ 16" O.C. STAGGERED. SEE C/S2.1.1 HARDI BOARD FASCIA. PAINTED COMPACTED LIMESTONE GRAVEL PARKING SURFACE. 	Drawing Size 24x36Project #: 16172Drawn By: ADChecked By: BWTitle:EXTERIOR ELEVATIONS BUILDING SECTION
REPANCIES, ACE WITH A	6 1/2" HARDI-BOARD SIDING.	Sheet Number:
	PROVIDED BY OWNER.	A3.1.1 Date: February 8, 2017
		©2017 by k2m Design, Inc.













72'-0"
EXISTING CONCESSSION STAND TO REMAIN
78'-7 1/2"

CONSTRUCTION NOTES

1. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONDITION DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF AN OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS PROJE

3. ALL NEW WALLS ARE TO BE BUILDING STANDARD 8" CMU BLOCK V CORNERS & EVERY OTHER CELL W/ #5 VERTICAL REBAR & GROUT, NOTED.

			Cleveland Columbus Indianapolis I West Marathon Charlotte Baltimo	<ey key<br="" largo="" ="">re Bentonville</ey>
			ARCHITECT SEAL: Scott C Maloney: License # / Expiration Date: February 24	AR93161 B, 2018
B TOP OF EXIST. ROOF 12'-31/2' TOP OF TE BEAM TOP OF TE BEAM TOP OF SLAB CRADE BEAM 0'-0' CRADE BEAM	ES X K WALL W/ 1/4" STUCCO (2) COAT SYSTE MATCH EXISTING ADJACENT CONCESSION S IGAL METER LOCATION. SEE SHEET E6.1.1 NACTH EXISTING ADJACENT CONCESSION S ICAL METER LOCATION. SEE SHEET E6.1.1 NECT LOCATION. SEE SHEET E6.1.1 SIA & SOFFIT. PAINTED CATION. SEE ADA-1 AB. SEE STRUCTURAL BAND. PAINTED TO MATCH EXISTING ADJACE D METAL ROOFING. FINISH TO MATCH EXIST	INT ING	Revisions:	
Image: Discreption on any discreption on discreption on discreption on discreption of the discrete	L DOOR EXTERIOR DOOR. GGREGATE FILL, SLOPED.		Sheet Number: A3.1 Date: February 8, 2 ©2017 by k2m Design, Inc	. 017



Building Relationships Based on Trust and Results

ARCHITECT/ENGINEER



Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting 1150 Virginia Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2762 Email: infoKW@k2mDesign.com URL: www.k2mDesign.com URL: www.k2mDesign.com PROF. REG. AA26001059 Et CERT. OF AUTH. 30945
Scott C Maloney: License # AR93161 Expiration Date: February 28, 2018
CHOOL EMODEL
CORAL SHORES HIGH SC 89901 OLD HIGHWAY TAVERNIER, FL 33070 STORAGE/CONCESSION RI
Drawing Size Project #: 24x36 16172 Drawn By: Checked By: LW BW Title: BUILDING SECTIONS Sheet Number: Sheet Number:

Date: February 8, 2017

GENERAL NOTES:

IMPORTANCE FACTOR, I

EXPOSURE,

<u>LOAD CRITERIA</u>

1. STRUCTURAL DESIGN CONFORMS TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2014 5TH EDITION

2.	DESIGN	WIND	LOADS	ARE	BASED	ON	THE	FOLLOWING	DATA	IN	ACCORDANCE	WITH	ASCE	7-10:
	BASI	C WIN	D SPEE	D, V				180 MPH	4					

1.0

COORDINATION

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH, AND COORDINATED WITH, ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS.
- 2. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK. THEY ARE NOT INTENDED TO BE SCALED FOR MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS.
- 3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR CONDITION, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
- 4. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, CONDITIONS AND DIMENSIONS IN THE FIELD AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE PROJECT ARCHITECT/ ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- 5. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT/ ENGINEER IN WRITING OF SUCH ERRORS AND OMISSIONS PRIOR TO PROCEEDING WITH ANY WORK. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESULTS AND THE COSTS OF RECTIFYING ANY SUCH ERRORS OR OMISSIONS.

RENOVATION AND EXISTING STRUCTURES

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL MEMBERS.
- 2. BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE WHICH ARE TO REMAIN. WHERE EXISTING CONDITIONS DIFFER FROM THOSE ASSUMED IN THE DRAWINGS, THE CONTRACTOR IS TO CONTACT THE ARCHITECT FOR RESOLUTION.

3. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE INDICATED ON THE DRAWINGS.

CAST-IN-PLACE CONCRETE

- 1. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ACI 318 CODE, ACI STANDARDS, ACI 315 DETAILING MANUAL, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", EXCEPT WHERE NOTED BY THE CONTRACT DRAWINGS OR HEREIN.
- 2. CONCRETE USED ON THIS PROJECT SHALL BE NORMAL-WEIGHT AND HAVE A SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS NOTED BELOW. FOR FURTHER REQUIREMENTS, SEE THE SPECIFICATIONS.

2.1. f'c = 4000 PSI: ISOLATED SPREAD FOOTINGS AND SLABS ON GRADE.

3. SEE CONCRETE SPECIFICATION SECTION 03 3000, "CAST-IN-PLACE CONCRETE", FOR MIX DESIGN, ADMIXTURES, AND OTHER REQUIREMENTS.

REINFORCING STEEL NOTES:

- 1. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60 (60,000 PSI).
- 2. BARS SHALL BE CLEANED, TAGGED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 318.
- 3. BAR SPLICES SHALL BE STAGGERED, LAP TYPE CONFORMING TO THE RECOMMENDATIONS OF "THE C.R.S.I. MANUAL OF STANDARD PRACTICE", LATEST EDITION, UNLESS NOTED OTHERWISE.
- 4. DETAILED SHOP DRAWINGS SHALL BE SUBMITTED "FOR REVIEW" PRIOR TO FABRICATION.

WOOD NOTES:

1. ALL WOOD TO BE PRESSURE TREATED #1 SYP.

CONNECTION NOTES:

1. ALL STRUCTURAL CONNECTIONS SHALL BE STAINLESS STEEL

SECTION 03 3000 CAST-IN-PLACE CONCRETE

1.01 SUBMITTALS

A. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions. For curing compounds, provide data on method of removal in the event of incompatibility floor covering adhesives. B. Mix Design: Submit proposed concrete mix design.

1.02 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301 and ACI 318.
- B. Follow recommendations of ACI 305R when concreting during hot weather.

C. Follow recommendations of ACI 306R when concreting during cold weather.

2.01 FORMWORK

- A. Form Materials: Contractor's choice of standard products with sufficient strength withstand hydrostatic head without distortion in excess of permitted tolerances. 1. Form Facing for Exposed Finish Concrete: Contractor's choice of materials the
- provide smooth, stain-free final appearance. 2. Form Coating: Release agent that will not adversely affect concrete or interfe application of coatings.

2.02 REINFORCEMENT

- A. Reinforcing Steel: ASTM A615/A615M Grade 60 (420). Electrical room & materia 1. Type: Deformed billet-steel bars.
- 2. Finish: Unfinished, unless otherwise indicated.
- B. Fiber Reinforcement: Alkai resistant polypropylene complying with ASTM C116/C11 Fiber mesh: 1.5 pounds per cubic yard for sidewalks and ramps.

C. Reinforcement Accessories:

1. Tie Wire: Annealed, minimum 16 gage.

2. Plastic or nylon non-metallic: Chairs, Bolsters, Bar Supports, Spacers: Sized shaped for adequate support of reinforcement during concrete placement. 2.03 CONCRETE MATERIALS

A. Cement: ASTM C150, Type I - Normal Portland type. Acquire all cement for er project from same source.

B. Fine and Coarse Aggregates: ASTM C 33. Acquire all aggregates for entire proje same source.

C. Water: Clean and not detrimental to concrete.

- 2.04 ADMIXTURES
- A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 by weight of cement.
- B. Air Entrainment Admixture: ASTM C260.
- C. High Range Water Reducing Admixture: ASTM C494/C494M Type F.
- D. Accelerating Admixture: ASTM C494/C494M Type C.

E. Retarding Admixture: ASTM C494/C494M Type B.

2.05 ACCESSORY MATERIALS

A. Underslab Vapor Retarder: Multi-layer, fabric-, cord-, grid-, or aluminum-reinfo polyethylene or equivalent, complying with ASTM E1745, Class C; stated by manu as suitable for installation in contact with soil or granular fill under concrete slo use of single ply polyethylene is prohibited.

- 1. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesi mastic, prefabricated boots, etc., for sealing seams and penetrations in vapo retarder.
- B. Non-Shrink Cementitious Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents. 1. Minimum Compressive Strength at 48 Hours: 2,400 psi.
- 2. Minimum Compressive Strength at 28 Days: 7,000 psi.
- 2.06 BONDING AND JOINTING PRODUCTS
- A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059
- B. Slab Isolation Joint Filler: 1/2 inch thick, height equal to slab thickness, with re top section that will form 1/2 inch deep sealant pocket after removal.
- 2.07 CURING MATERIALS A. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-for compound, that dissipates within 3 to 5 weeks; complying with ASTM C309.
- 2.08 CONCRETE MIX DESIGN
- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations. B. Concrete Strength: Establish required average strength for each type of concrete
- basis of field experience or trial mixtures, as specified in ACI 301. 1. For trial mixtures method, employ independent testing agency acceptable to for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at ra recommended or required by manufacturer.
- D. Fiber Reinforcement: Add to mix at rate of 1.5 pounds per cubic yard, or as recommended by manufacturer for specific project conditions. E. Normal Weight Concrete: Compressive Strength, when tested in accordance with
- C39/C39M at 28 days: per schedule below
- 1 SCHEDULE CONCRETE TYPES AND FINISHES
- A. FOUNDATIONS: 3,000 POUNDS PER SQUARE INCH 28 DAY CONCRETE.
- B. SLAB ON GRADE: 4,000 PSI 28 DAY CONCRETE, FIBER REINFORCED, STEEL TROWE FINISH.
- LIGHT POLE SUPPORTS: 4,000 PSI 28 DAY CONCRETE, GROUT CLEANED FINISH 2. END OF SECTION
- 3. Silica flume content: maximum 5% of cementitious material by weight
- 4. Cement Content: Minimum 750lbs/cubic yd.
- 5. Water cement ratio: maximum 40% by weight
- 6. Total Air Content: 4 percent, determined in accordance with ASTM C173/C173 a. 5% minimum to 7% maximum for exterior concrete.
- b. Maximum Slump: 5 inches no added water on site
- 2.09 MIXING A. No onsite mixing.
- B. Transit Mixers: Comply with ASTM C94/C94M.

3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section. 3.02 PREPARATION

- A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
- B. Verify that forms are clean before applying release agent.
- C. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.
- D. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.

	 Use latex bonding agent only for non-load-bearing applications. E. Dowel new concrete to existing concrete. Drill 6 inch deep holes into existing concrete, insert 12 inch long #4 steel dowels, and install with adhesive anchor system per manufacturers recommendations. Space dowels 24" o.c. 12" o.c. for slabs greater than 	K2M [®]
with	 4 inches thick. F. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Lap joints minimum 6 inches. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged 	Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting
	vapor retarder before covering. 3.03 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS A. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection. B Install welded wire reinforcement in maximum possible lengths, and offset end laps in	1150 Virginia Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162 Email: infoKW@k2mDesign.com URL: www.k2mDesign.com PROF. REG. AA26001059
	 b. Install weided whe reinforcement in maximum possible lengths, and onset end laps in both directions. Splice laps with tie wire. 1. Locate reinforcement in top third of slab with 3/4 inch minimum cover. 	FL CERT. OF AUTH. 30945 Building Relationships Based on Trust and Results
n to nat will	 C. Lap reinforcement one wire space plus 2 inches minimum. C. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with concrete placement. 	Cleveland Columbus Indianapolis Key Largo Key West Marathon Charlotte Baltimore Bentonville
ere with	3.04 PLACING CONCRETE A. Place concrete in accordance with ACI 304R.	
ıl bins.	 B. Place concrete for floor slabs in accordance with ACI 302.1R. C. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken. D. Ensure reinforcement, inserts, waterstops, and embedded parts will not be disturbed 	
16M.	during concrete placement. E. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or	
and	high—pressure water jetting. F. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.	ENGINEER SEAL:
ntire	3.05 SLAB JOINTING A. Locate joints as indicated on the drawings.	No 73110
ject from	 B. Anchor joint fillers and devices to prevent movement during concrete placement. C. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab. 	B. STALE OF
percent	D. Saw Cut Contraction Joints: Saw cut joints before concrete begins to cool, within 1 to 4 hours after placing with an early-enty dry-cut saw; use 3/16 inch thick blade and cut 1 inch deep but not less than one quarter (1/4) the depth of the slab. 3.06 FLOOR FLATNESS AND LEVELNESS TOLERANCES	LIC #: 73110 COA: 30945 Expiration Date: February 28,2018 Revisions:
	 A. Maximum Variation of Surface Flatness for interior floor slabs: 1/8 inch in 10 ft., unless indicated otherwise on drawings. B. Correct the slab surface if tolerances are less than specified. C. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same 	
orced ufacturer labs. The	and the process. 3.07 CONCRETE FINISHING A. Repair surface defects, including tie holes, immediately after removing formwork.	
ive,	B. Onexposed Form Finish: Rub down of chip off fins of other faised areas 1/4 inch of more in height.	
)[C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows: 1. Grout Cleaned Finish: Wet areas to be cleaned and apply grout mixture by brush or spray; scrub immediately to remove excess grout. After drying, rub vigorously with clean burlap, and keep moist for 36 hours.	
	D. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows: 1. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI 301.1R; thin floor coverings include carpeting, resilient flooring, seamless flooring, thin set	
og Type	quarry tile, and thin set ceramic tile. 2. Other Surfaces to Be Left Exposed: "Steel trowel" as described in ACI 302.1R,	
·	minimizing burnish marks and other appearance defects. E. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 nominal.	
orming	3.08 CURING AND PROTECTION A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.	SCI SCI D70 I RE
e on the	B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.	ON 330
Architect	C. Surfaces Not in Contact with Forms, use one or a combination of the following methods:	
ates	surface coatings are usually considered unacceptable by flooring and adhesive manufacturers. If such materials must be used, either obtain the approval of the flooring and adhesive manufacturers prior to use or remove the surface coating after curing to flooring manufacturer's satisfaction.	RES I DLD H NIER,
ASTM	 Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer. 3.09 FIELD QUALITY CONTROL 	HOF 901 (VER
	A. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.	E/(S ⁸⁹
i.	 B. Tests of concrete and concrete materials to be performed by Monroe County School District at any time to ensure conformance with specified requirements. C. Compressive Strength Tests: ASTM C39/C39M. For each test, mold and cure three concrete test cylinders. Obtain test samples for every 100 cu yd or less of each class 	RAG
	of concrete placed. D. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.	ji CC
3М.	E. Perform one slump test for each set of test cylinders taken, following procedures of ASTM C143/C143M. 3.10 DEFECTIVE CONCRETE	
	A. Defective Concrete: Repair or replace concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.	PLOTTED: 2/8/2017 4:58 PM Drawing Size Proiect #:
		24X3616172Drawn By: ADChecked By: BW

ARCHITECT/ENGINEER

Title:

GENERAL NOTES

AND SPECIFICATIOS

Date: February 8, 2017 ©2017 by k2m Design, Inc.

Sheet Number:





GENERAL NOTES:

ELECTRIC NOTES

- 1. NEC 2011 IS EXPLICITLY CALLED OUT FOR THIS PROJECT. CONTRACTOR TO TAKE NOTE. 2. ALL ELECTRIC WORK TO BE EXECUTED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS AND WORKMANLIKE MANNER. 3. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY AND ALL DETAILS OF THE CONSTRUCTION/INSTALLATION.
- 4. ALL WIRE TO BE CU THHN/THWN OR BETTER U.O.N.
- 5. ALL EQUIPMENT MUST BE UL LISTED & SUITABLE FOR THE DESIGN PURPOSE.
- 6. ALL WIRE SIZES SHOWN ARE MINIMUMS.
- 7. ALL ELECTRICAL CONDUIT WITHIN BUILDING TO BE METAL. 8. THE CONTRACTOR SHALL INSTALL ALL ITEMS REQUIRED BY THE DESIGN AND INSURE ALL
- INSTALLED EQUIPMENT IS IN WORKING ORDER. 9. CONTRACTOR TO PROVIDE ANY AND ALL NECESSARY INSTALLATION MATERIALS.
- 10. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
- 11. RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF
- DEVICE, UNLESS OTHERWISE NOTED. 12. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT
- IN WHICH THEY ARE TO BE INSTALLED. 13. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110. 14. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, AND EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL
- APPURTENANCES IN ACCORDANCE WITH NEC 384. 15. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET
- a. ALL ELECTRICAL BOXES SHALL BE METALLIC.
- b. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
- c. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES. d. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED
- WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL). e. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF
- THE WALL RATING SHALL BE MAINTAINED. f. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE
- INCHES PER 100 SQUARE FEET.
- g. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
- h. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
- i. THE OPENING IN THE FINISHED FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.

LIGHTING FIXTURE NOTES

- 1. ALL LUMINARIES SHALL USE LAMP WATTAGE AS INDICATED AND ELECTRONIC BALLASTS, UNLESS OTHERWISE NOTED.
- 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LUMINARIES.
- 3. ALL LUMINARIES SHALL BE FUSED AS CIRCUITED ON THE ELECTRICAL PLANS 4. COORDINATE TYPE OF CEILING FOR EACH LUMINAIRE WITH ARCHITECTURAL REFLECTED CEILING
- PLANS AND PROVIDE LUMINAIRE TRIM AS REQUIRED.
- 5. PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LUMINARIES LOCATED IN FIRE RATED CEILINGS.
- 6. ALL ACRYLIC LENSED LUMINARIES SHALL HAVE A LENS THICKNESS OF 0.125 INCHES MINIMUM. 7. IF THERE IS A DISCREPANCY BETWEEN A LUMINAIRE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE LUMINAIRE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
- 8. ALL LUMINARIES SHALL BE PAINTED AFTER FABRICATION. 9. THE MANUFACTURERS LISTED IN THE LIGHTING FIXTURE SCHEDULE INDICATES THE LEVEL OF QUALITY REQUIRED. OTHER MANUFACTURERS WILL BE CONSIDERED AFTER RECEIVING AN APPROVAL FROM THE ARCHITECT TEN (10) DAYS PRIOR TO BIDS. ALL SUBMITTALS SHALL INCLUDE CUT SHEETS OF EACH FIXTURE TYPE WITH FULL DESCRIPTIONS. APPROVAL, IF GRANTED, WILL BE REFLECTED IN AN ADDENDUM TO THE CONSTRUCTION DOCUMENTS.
- 10. FLUORESCENT LAMPS SHALL BE OF THE LOW MERCURY TYPE, SUCH THAT THE AVERAGE MERCURY CONTENT IS LESS THAN 90 PICOGRAMS OF MERCURY PER LUMEN-HOUR OF LAMP LIFE.

ECTRICAL SPECIFICATIONS
DIVISION 16 - ELECTRICAL

I. GI

	RAL CONDITIONS, CODES & STANDARDS
1.	GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIC
2.	INSTITUTE OF ARCHITECTS (AIA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTH REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITION ADDITIONAL REQUIREMENTS REGARDING: SAFETY COORDINATION & COOPERATION WORKMANSHIP PROTECTION CUT
	DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED. FEDERAL. STATE, AND LOCAL CODES AND ORDIN
	SPECIAL THE OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED.
	THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES
COPI	E OF WORK
	THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHIC
	SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPL
	WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CO
	CODE APPROVED AND OPERATIONAL ELECTRICAL SYSTEM.
	CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SO THER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE
	OWNER BEFORE WORK IS COMMENCED.
	CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAW SPECIFICATIONS NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF TH
	WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF THIS F
	SUCH EXAMINATION OR OF ANY ERROR ON HIS PART. ALL EXISTING UTILITY AND ELECTRICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTAL
	WITHOUT ADDITIONAL COST TO THE OWNER.
	FLOORS. SHAFTS. AND WALLS SHALL BE FIRESTOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE
	FIRE RATING OF THE FLOORS, SHAFTS, AND WALLS PENETRATED.
	TEMPORARY ELECTRICAL SERVICE, LIGHTING, AND RELATED WIRING SHALL BE PROVIDED TO USHA REQUIREMENTS FOR DURING CONSTRUCTION.
	TEMPERATURE AND INTERLOCK CONTROL COMPONENTS AND ALL RELATED WIRING AND CONDUIT SHALL BE PROVIDED
	THIS CONTRACT SHALL ALSO INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REC
	DEMOLITION OF THE EXISTING AREAS BEING RENOVATED.
	ELECTRICAL EQUIPMENT, WIRING, CONDUIT, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION C
	SYSTEMS FOR THE NEW RENOVATED AREAS. b ALL UNDERGROUND SERVICES NOT BEING REUSED SHALL BE CAPPED BELOW THE ELOOR, WIRING REMOVED, AN
	PENETRATIONS REPAIRED TO MATCH ADJACENT SURFACES.
	 ALL ABOVE GROUND CIRCUITS SHALL BE REMOVED BACK TO THE SOURCE UNLESS INDICATED OTHERWISE. COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS. THE ARCHITECT. AND THE OWNER'S GEN
	THE GENERAL CONTRACTOR SHALL VERIFY SITE LIGHTING BASE DETAILS WITH STRUCTURAL ENGINEER TO VERIFY APPL
	ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ON
	ACCEPTANCE BY THE ENGINEER AND OWNER. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEE
	THE DRAWINGS ARE DIAGRAMMATIC; ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXIST COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWN
	ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IN
	THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALL
	FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH.
	THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE
	DRAWINGS SHALL BE REFERRED TO THE OWNER FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE. THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF FOUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HERE
	ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY
	SPECIFIED EQUIPMENT AND MATERIAL AND MUST BE SUBMITTED AS SPECIFIED IN THE ARCHITECTURAL DOCUMENTS. MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVID
	MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.
	DINATION
OR	
OR	CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINE
OR	SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL CO
OR	SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL CO DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE. EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROU
OR	SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL CO DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE. EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROU HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE / OWNER BY THE CRAETSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE DAID BY THE CONTRACTOR
OOR	SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL CO DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE. EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROU HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE / OWNER BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR DAMAGE.
OOR	SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL CO DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE. EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROU HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE A OWNER BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR DAMAGE. IT IS ESSENTIAL THAT ALL WORK AT THE PROJECT BE DONE AT SUCH TIME AND IN SUCH MANNER AS NOT TO INTERFERE OF THE SPACE. ADJACENT SPACES, OR FACILITY A WORK SCHEDULE SHALL BE ARRANGED WITH THE OWNER. INCLUDIN

۱.	EXCAVATIONS SHALL BE MAD
	BED OF CLEAN AND DRY SAN
	TRENCH UTILIZING THE EXCA
	ACCEPTABLE, ENGINEERED I

2.	EQUIPMENT, CONDUIT, ETC. S
	JOIST BRIDGING. ITEMS SHAL
	AND STRUCTURAL ENGINEER
3.	ALL ROOF PENETRATIONS, FL

REQUESTING CONTRACTORS COST.

SUBMITTALS

F.

- DRAWINGS, WIRING DIAGRAMS AND OPERATION AND MAINTENANCE MANUALS.

NDARDS

E CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN IA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE. IDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR REGARDING: SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, RELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC. ORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES INCLUDING ANY EMENTS IN ADDITION TO THOSE SPECIFIED. R AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. QUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.

JDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE OWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. ANY MATERIAL OR LABOR WHICH IS NEITHER OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT AT NO VNER. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE OWNER A COMPLETE, ATIONAL ELECTRICAL SYSTEM. TION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH

ROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE MMENCED LD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER ERFORMED. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF THIS FAILURE TO HAVE MADE NY ERROR ON HIS PART. ECTRICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE

TO THE OWNER. ATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. ALL CORE DRILLING OR CUTTING OF FIRE RATED SHALL BE FIRESTOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE , SHAFTS, AND WALLS PENETRATED.

RVICE, LIGHTING, AND RELATED WIRING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE USE OF ALL TRADES CK CONTROL COMPONENTS AND ALL RELATED WIRING AND CONDUIT SHALL BE PROVIDED BY THE MECHANICAL

RWISE INDICATED ON THE DRAWINGS. INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REQUIRED ELECTRICAL 3 AREAS BEING RENOVATED ALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED) OF ALL RING, CONDUIT, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION OF THE ELECTRICAL OVATED AREAS

SERVICES NOT BEING REUSED SHALL BE CAPPED BELOW THE FLOOR, WIRING REMOVED, AND FLOOR MATCH ADJACENT SURFACES.

CIRCUITS SHALL BE REMOVED BACK TO THE SOURCE UNLESS INDICATED OTHERWISE. MOLITION WITH THE ARCHITECTURAL DOCUMENTS, THE ARCHITECT, AND THE OWNER'S GENERAL REQUIREMENTS. SHALL VERIFY SITE LIGHTING BASE DETAILS WITH STRUCTURAL ENGINEER TO VERIFY APPLICABILITY OF CAL SOIL CONDITIONS.

OT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER EER AND OWNER. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT PPLY TO THIS PROJECT.

IMATIC; ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR JIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER. ABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY ATION OF ALL APPARATUS SHALL BE INCLUDING IN BID. CATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE OT MENTIONED IN BOTH E DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON

ALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE RED TO THE OWNER FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE. WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ITIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE MATERIAL AND MUST BE SUBMITTED AS SPECIFIED IN THE ARCHITECTURAL DOCUMENTS. ESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET

E. IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND ITION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF S SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE. E HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLECT OF SONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE

DRK AT THE PROJECT BE DONE AT SUCH TIME AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE OPERATIONS ACES, OR FACILITY. A WORK SCHEDULE SHALL BE ARRANGED WITH THE OWNER, INCLUDING PREMIUM TIME WORK MINIMUM OF INTERFERENCE TO THE OWNER'S OPERATIONS.

ADE IN OPEN TRENCHES. FLOORS SHALL BE SAW CUT. CONDUIT SHALL BE LAID ON AN APPROPRIATELY GRADED 6" ND. ENGINEERED FILL SHALL BE USED TO BACKFILL TO 6" ABOVE THE CONDUIT. BACKFILL THE REMAINDER OF THE AVATED MATERIAL IF APPROVED BY THE ARCHITECT OR THE OWNER. IF THE EXCAVATED MATERIALS ARE NOT FILL ACCEPTABLE TO THE ARCHITECT SHALL BE UTILIZED TO BACKFILL THE REMAINDER OF THE TRENCH. BACKFILL SHALL BE ACCOMPLISHED IN 9" LIFTS WITH ALL LIFTS COMPACTED TO 95% PROCTOR. PATCH FLOOR TO MATCH EXISTING. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, OTHER CONDUIT OR DUCTWORK, ROOF DECK, OR LL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT LASHINGS AND COUNTER FLASHINGS SHALL BE PERFORMED BY THE OWNER'S ROOFING CONTRACTOR AT THE

SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES PROVIDED FOR THE PROJECT WHETHER SPECIFIED HERE-IN OR ON THE DRAWINGS. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH THE SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR SHOWING LOCATIONS AND MEASUREMENTS FROM COLUMNS OF ALL CONCEALED AND EXPOSED PIPING. DUCTWORK, CONDUIT, EQUIPMENT, ACCESSORIES, ETC., AND SUBMITTED PRIOR TO INSTALLATION. THE OWNER MAY MAKE REPRODUCIBLE COPIES OF THEIR DRAWINGS AVAILABLE FOR USE IN PREPARATION OF SHOP DRAWINGS, HOWEVER THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR NOT CONFIRMING ALL INFORMATION ON THE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. PROJECT RECORD DOCUMENTS - MAINTAIN AT THE JOBSITE ONE COPY OF ALL CONTRACT DOCUMENTS CLEARLY MARKED AS "PROJECT RECORD COPY". THESE DRAWINGS ARE TO BE MAINTAINED IN GOOD CONDITION, UPDATED DAILY FOR CHANGES ENCOUNTERED AND AVAILABLE ALL TIMES FOR INSPECTION BY THE OWNER. DO NOT USE FOR FIELD CONSTRUCTION! PROJECT RECORD DOCUMENTS ARE TO BE KEPT CURRENT WITH EXACT DIMENSIONS OF ALL WORK, EQUIPMENT, DISTRIBUTION CONDUIT, CIRCUITS, ETC. MARK ALL INFORMATION IN RED LINES AND NOTES SO AS TO BE EASILY IDENTIFIED FROM THE BASE DRAWING. UPON COMPLETION OF THE WORK, ONE SET OF THESE DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AS ONE QUALIFICATION FOR FINAL PAYMENT. THREE COMPLETE SETS OF AS-BUILT DOCUMENTATION SHALL BE PROVIDED. IT SHALL INCLUDE, BUT NOT BE LIMITED TO ACCURATE PLAN

II. PF

ROE	DUCTS	
	CONDU	ПТ
	1.	CONDUIT SHALL BE HEAVY WALL RIGID GALVANIZ WHERE INDICATED ON THE DRAWINGS. UNDERGINDICATED ON THE DRAWINGS. A TRANSITION SHA SLAB. INTERIOR CONDUITS SHALL BE ELECTRICA NSTALLED IN LOCATIONS PERMITTED BY CODE. FLEXIBLE METAL CONDUIT SHALL BE USED FROM
		OTHER DEVICES SUBJECT TO VIBRATION.
	CONDU	IT FITTINGS AND BOXES
	1. 2.	INTERIOR OUTLET BOXES SHALL BE STANDARD O EXTENSIONS, PLASTER RINGS AND COVER PLATE DEVICE COLOR. USE STEEL PLATES WITH ROUND TYPE WITH DEVICE COVERS TO SUIT. OUTLET BOXES SHALL NOT BE LESS THAN 4 INCH
	3.	
	1. 2. 3. 4.	CONDUCTORS FOR POWER AND LIGHTING SHALL CONTROL WIRING WHICH MAY BE #14-AWG. OTHE APPROVED BY THE OWNER. BRANCH CIRCUIT RUNS EXCEEDING 100 FEET IN OTHERWISE NOTED. COMPRESSION TYPE LUGS AND CONNECTORS SI ALL LOW VOLTAGE COMMUNICATIONS, FIRE ALAF CEILING SHALL BE PLENUM RATED.
	WIRING	BDEVICES
	1. 2. 3. 4. 5. 6.	DUPLEX RECEPTACLES SHALL BE GROUNDING TY GROUND FAULT CIRCUIT INTERRUPTER DUPLEX SWITCHES SHALL BE TOGGLE OPERATED, QUIET FOUR WAY SWITCHES SHALL BE PROVIDED WHEN DIMMERS SHALL BE LUTRON "NOVA T-STAR" SER COLORS OF DEVICES SHALL BE SELECTED BY AR WIRING DEVICES SHALL BE SPECIFICATION GRAD
	LIGHTIN	NG AND RECEPTACLE PANELBOARDS
	1.	BRANCH CIRCUIT PANELBOARDS SHALL BE DEAD DEVICES AS NOTED AND AN EQUIPMENT GROUND SHALL BE 10,000 AMPS SYMMETRICAL FOR 120/20
	2. 3. 4.	ALL BREAKERS SHALL BE BOLT ON TYPE; WI MAGNETIC TRIP DEVICE. ALL BREAKERS FEEDING HVAC EQUIPMENT SHAL ALL BREAKERS IN RESIDENTIAL OCCUPANCIES S
	J. DISTRIF	BUTION TRANSFORMERS
	1.	TRANSFORMERS SHALL BE ENERGY SAVING TYP TRANSFORMERS SHALL BE AS MANUFACTURED B
	SAFET	Y SWITCHES AND MOTOR STARTERS
	1.	SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUDUTY VISIBLE BLADE TYPE. ENCLOSURES SHALL
	2. 3.	DELAY TYPE. MAGNETIC MOTOR STARTERS SHALL BE COMBIN CONTROL TRANSFORMER, RUNNING PILOT LIGHT ALL MOTORS OVER 1/8 HP SHALL BE PROVIDED V MOTOR WINDINGS AND/OR MOTOR CONTROLLER
	LUMINA	AIRES AND LAMPS
	1. 2. 3. 4. 5. 6.	ALL LUMINAIRES SHALL BE SPECIFIED ON THE LU BALLASTS SHALL BE INSTANT START, ELECTRON SHALL BE 3-WIRE TYPE, WITH DIMMING CAPABILI RECESSED LUMINAIRES WITH INCANDESCENT LA FLUORESCENT LAMPS SHALL BE 3500 K. INCANDE EMERGENCY LIGHTING AS INDICATED, SHALL PRO PROVIDE FOOTCANDLE PRINTOUT TO VERIFY EM ALL FIXTURE / BALLAST / LAMP COMBINATIONS SI
	EXECU	TION
	GENER	AL MISCELLANEOUS
	1.	ALL CONDUIT RUN IN FINISHED AREAS SHALL BE
	∠. 3.	ELECTRICAL CODE. HANGERS, SUPPORTS, OR FASTENINGS SHALL BI AT INTERMEDIATE POINTS AS REQUIRED BY COD
	4.	SUPPORTING HARDWARE. FIXTURE SUPPORTS SHALL BE IN ACCORDANCE V
	5. 6.	PROVIDE PERMANENT NAMEPLATES WITH DESIGN PROVIDE TYPEWRITTEN DIRECTORY CARDS WITH

ISTRIBUTION EQUIPMENT AND STARTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16. INSTALL HANDLE GUARDS ON ALL BREAKERS FOR NIGHT LIGHTING, EMERGENCY AND SIMILAR CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL BALANCE PANELBOARD LOADING TO WITHIN 10% ON EACH PHASE BASED ON INSTALLED CONDITIONS. LOAD BALANCING CIRCUIT CHANGES SHALL BE PERFORMED OUTSIDE THE NORMAL OCCUPANCY WORKING SCHEDULE AND AT A TIME DIRECTED BY LANDLORD. ALL FLUSH MOUNTED PANELBOARDS SHALL HAVE (3) 3/4" EMPTY CONDUITS INSTALLED TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE. THE FINAL LOCATIONS OF ALL EQUIPMENT, OUTLETS, ETC. SHALL BE SUBJECT TO REASONABLE CHANGES IN LOCATION UP TO THE TIME OF ROUGHING-IN, AT NO ADDITIONAL COST TO THE OWNER. CONTACT ELECTRIC POWER COMPANY AND MAKE NECESSARY ARRANGEMENTS FOR ELECTRIC SERVICE. CONTACT TELEPHONE COMPANY AND MAKE NECESSARY ARRANGEMENTS FOR TELEPHONE SERVICE. 12

AT ALL TIMES KEEP PREMISES AND BUILDING IN A NEAT AND ORDERLY CONDITION, FOLLOWING OWNER'S INSTRUCTION IN REGARD TO STORING OF MATERIALS, PROTECTIVE MEASURES AND DISPOSING OF DEBRIS. RACEWAYS BELOW DRIVEWAYS, PARKING LOTS, AND ANY RACEWAYS INSTALLED BELOW GRADE SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINISHED GRADE PER NEC 300-5.

Β. GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 250. BOND METAL WATER PIPING AND OTHER METAL PIPING (INCLUDING GAS PIPING) AND EXPOSED STRUCTURAL METAL IN ACCORDANCE WITH NEC ARTICLE 250. GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH ALL FEEDERS AND BRANCH

CIRCUIT CONDUCTORS IN ALL CONDUITS.

ZED STEEL WHERE EXPOSED AND SUBJECT TO DAMAGE, 8'-0" AFF AND BELOW, AND IN WET LOCATIONS ROUND CONDUIT SHALL BE SCHEDULE 40 PVC AND SHALL BE CONCRETE ENCASED (3' MINIMUM) WHERE I HALL BE MADE TO HEAVY WALL RIGID GALVANIZED STEEL BEFORE PVC CONDUITS PENETRATE THE FLOOR AL METALLIC TUBING (EMT). METAL CLAD (MC) CABLE MAY BE USED IF APPROVED BY THE OWNER, AND I

OUTLET BOX TO INDIVIDUAL RECESSED LIGHT FIXTURES, AND FOR FINAL CONNECTIONS TO MOTORS AND

GALVANIZED SHEET STEEL TYPE, NOT LESS THAN 14 GAUGE IN THICKNESS, WITH KNOCKOUT OPENINGS, ES TO ACCOMMODATE THE DEVICES INSTALLED. COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH ED CORNERS FOR SURFACE BOXES. OUTDOOR (WET LOCATION) OUTLET BOXES SHALL BE CAST ALUMINUM HES SQUARE, 1-1/2 INCHES DEEP. 3E DIE CAST ZINC OR STEEL. BUSHING SHALL BE GROUNDING TYPE WITH INSULATING PLASTIC INSERT.

. BE NEW 600-VOLT, 90°C, TYPE XHHW, THHN, OR THWN INSULATION, MINIMUM SIZE #12-AWG, EXCEPT FOR ER SIZES SHALL BE AS NOTED ON THE DRAWINGS. CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE I TOTAL LENGTH FROM THE PANELBOARD TO THE LAST DEVICE, SHALL BE #10-AWG CONDUCTORS UNLESS

HALL BE USED FOR ALL TERMINATIONS AND SPLICES. RM, DATA, SECURITY, TELEPHONE AND ALL OTHER MISCELLANEOUS LOW VOLTAGE WIRING INSTALLED IN

YPE, NEMA 5-20R, RATED FOR 20 AMPS, 125 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING. RECEPTACLES SHALL BE PROVIDED WHERE INDICATED. TYPE, RATED FOR 20 AMPS, 120/277 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING. THREE WAY AND RE INDICATED IES, OF A RATING, VOLTAGE AND WATTAGE SUITABLE FOR LOAD SERVED. RCHITECT. DE, AS MANUFACTURED BY HUBBELL, PASS & SEYMOUR, ARROW HART, LEVITON AND GENERAL ELECTRIC.

FRONT TYPE, WITH MAIN LUGS OR MAIN OVERCURRENT DEVICE AS INDICATED, BRANCH OVERCURRENT ND BAR, ALL IN A SURFACE OR FLUSH MOUNTED SHEET STEEL ENCLOSURE. MINIMUM SHORT CIRCUIT CAPACITY 08V, AND 18,000 AMPS SYMMETRICAL FOR 277/480V APPLICATION UNLESS NOTED OTHERWISE. TH MOLDED PLASTIC CASE; 1, 2, OR 3 POLE AS INDICATED; QUICK-MAKE, QUICK-BREAK; AND THERMAL-LL BE HACR RATED, UNLESS OTHERWISE NOTED.

HALL BE ARC-FAULT TYPE, UNLESS OTHERWISE NOTED. SQUARE D, GENERAL ELECTRIC, SIEMENS, AND CUTLER HAMMER.

PE, DRY TYPE, 115 DEGREE RISE WITH 2 TAPS ABOVE AND 4 TAPS BELOW NORMAL VOLTAGE. BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER, AND ACME.

JSIBLE AS INDICATED ON THE DRAWINGS. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK, HEAVY BE NEMA 1 TYPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FUSES SHALL BE DUAL ELEMENT - TIME

JATION TYPE WITH THERMAL OVERLOAD, INTEGRAL FUSED SAFETY SWITCH, H-O-A SELECTOR SWITCH, , NEMA TYPE 1 ENCLOSURE, AND (2) NORMALLY OPEN AND (2) NORMALLY CLOSED AUXILIARY CONTACTS. WITH THERMAL OVERLOAD PROTECTION. OVERLOAD PROTECTION SHALL BE PROVIDED INTEGRAL WITH THE (PROVIDED BY OTHERS) UNLESS OTHERWISE INDICATED ON DRAWINGS.

JMINAIRE SCHEDULE IC TYPE, CLASS P, "A" SOUND RATING AND MAXIMUM HARMONIC CONTENT OF 10%. DIMMING BALLASTS ITY TO 10% OF RATED FULL OUTPUT. MPS SHALL BE PROVIDED WITH THERMAL PROTECTION.

SCENT LAMPS SHALL BE 130 VOLT. HIGH INTENSITY DISCHARGE LAMPS SHALL BE COATED. OVIDE A MINIMUM OF ONE FOOTCANDLE ALONG THE PATH OF EGRESS. EMERGENCY FIXTURE SUPPLIER SHALL **MERGENCY LIGHT LEVELS.** HALL BE ENERGY SAVING TYPE.

CONCEALED. CONDUIT SMALLER THAN 3/4" SHALL NOT BE USED FOR ANY CIRCUIT HOMERUNS. JRES SHALL BE FILLED WITH AN APPROVED MATERIAL IN ACCORDANCE WITH ARTICLE 300.7 OF THE NATIONAL E PROVIDED AT EACH ELBOW, AT THE ENDS OF STRAIGHT RUNS TERMINATING AT BOXES OR CABINETS, AND DE. CONDUITS OR BOXES SHALL NOT BE SUPPORTED BY CEILING SUPPORT WIRES OR OTHER CEILING

WITH ARTICLE 410-30 OF THE NATIONAL ELECTRICAL CODE, OR ANY LOCAL CODES WHICH MY APPLY. GNATIONS FOR PANELBOARDS, FEEDER DEVICES, DISTRIBUTION EQUIPMENT AND STARTERS. H BRANCH CIRCUIT IDENTIFICATION FOR BRANCH CIRCUIT PANELBOARDS. PANELBOARDS, FEEDER DEVICES,







ELECTRICAL ROOM POWER PLAN SCALE: 1/4"=1'-0"



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

ELECTRICAL POWER LEGEND								
SYMBOL DESCRIPTION								
Φ _{WP}	WEATHERPROOF							
∲ _{GFI}	GROUND FAULT							
	PANEL BOX							
	METER BOX							
IJ	JUNCTION BOX							
9	EXHAUST FAN							
	DISCONNECT							

ARCHITECT/EN	IGINEER:
K22 N Architecture, Enginee Interior Design, Asset Managemen Specialty Consulti 1150 Virginia Stree Key West, Florida 33 Tel: 305.292.772 Fax: 305.292.216 Email: infoKW@k2mDess URL: www.k2mDesig PROF. REG. AA2600 FL CERT. OF AUTH. 3 Building Relationship Based on Trust and Ress	ering, nt, ng et 0040 2 2 ign.com 1059 30945 s s s ults r Largo Key Bentonville
ENGINEER SEAL:	
CORAL SHORES HIGH SCHOOL 89901 OLD HIGHWAY TAVERNIER, FL 33070	STORAGE/CONCESSION REMODEL
Drawing Size Project 24x36 16 Drawn By: Chect AD BV Title: ELECTRICAL RC & POLE BARI POWER PLAN Sheet Number:	ct #: 172 ked By: v DOM N IS
E1.2. Date: February 8, 20	1



	LIGHTING FIXTURE SCHEDULE											
MARK	MARK MANUFACTURER MODEL MOUNTING LAMPS VOLTAGE WATTAGE DESCRIPTION NOTES											
EL-1	GENERAL ELECTRIC	LDS-14-A-0-34-W0-T-35-VQ-SM-WHTE-EL	SURFACE MOUNT	3500K	120V-277V	32W-85W	4' LED SURFACE MOUNT LDS SERIES					
EL-2	GENERAL ELECTRIC	LDS-14-A-0-34-W0-T-35-VQ-SM-WHTE	SURFACE MOUNT	3500K	120V-277V	32W-85W	4' LED SURFACE MOUNT LDS SERIES	W/ EMERGENCY BALLAST				

LIGH
SYMBOL
\frown
4

SWITCH GROUP

SWITCH

LIGHT	ING LEGEND
MBOL	DESCRIPTION
	4' LED

CORAL SHORES HIGH SCHOOL	89901 OLD HIGHWAY	TAVERNIER, FL 33070	STORAGE/CONCESSION REMODEL
Draw 24	ing Size _{x36}	e Proje 16	ct #: 172
Draw E Title:	n By: sw	Chec So	ked By: ∋
ELE LI	CTRI GHTII	CAL RO NG PLA	DOM AN
Sheet	Numbe		<u> </u>
Date:	- Februa	ary 8, 20	Z
©2017 b	y k2m De	esign, Inc.	



FL CERT. OF AUTH. 30945 Building Relationships Based on Trust and Results Cleveland | Columbus | Indianapolis | Key Largo | Key West | Marathon | Charlotte | Baltimore | Bentonville

1150 Virginia Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162 Email: infoKW@k2mDesign.com URL: www.k2mDesign.com PROF. REG. AA26001059

Architecture, Engineering, Interior Design, Asset Management, Specialty Consulting

ARCHITECT/ENGINEER:

PANEL EA "PRACTICE F 22 000 AMPS RMS SV9		S" - R			TRIC ENT RA									5	SURFACE MOUNTED NEMASR ENCLOSU
180Y/277 VOLTS, 3 PHA	SE, 4 WIRE	, 400 A	AMP, M	AIN E	REAKE	ER									
SERVES		WRE	CIR.	CIR.	AMPS	BRKR.	A	В	С	BRKR.	AMPS	CIR.	CIR.	WRE	SERVES
		SIZE		NO. 1		SIZE	0			SIZE		NO.	LOAD	SIZE	
			0	3			0	0				2	0		
			0	5				0	0			6	0		
			0	7			0					8	0		
			0	9				0				10	0		
			0	11					0			12	0		
		10	8	13	30		16				30	14	8	10	
IGHT POLE W/4 FIXTURES		10	8	15	30	3P		16		3P	30	16	8	10	LIGHT POLE W/ 4 FIXTURES
		10	8	17	30	-			16	30	30	18	8	10	
		10	8	19	30		17				30	20	9	10	
IGHT POLE W/4 FIXTURES		10	8	21	30	3P		17		3P	30	22	9	10	LIGHT POLE W/ 5 FIXTURES
		10	8	23	30				17		30	24	9	10	
		10	8	25	30		17				30	26	9	10	
IGHT POLE W/ 4 FIXTURES		10	8	27	30	3P		17		3P	30	28	9	10	LIGHT POLE W/ 5 FIXTURES
		10	8	29	30				17		30	30	9	10	
		10	8	31	30		19				30	32	11	10	
IGHT POLE W/ 4 FIXTURES		10	8	<mark>3</mark> 3	30	3P		<mark>19</mark>		3P	30	34	11	10	LIGHT POLE W/ 6 FIXTURES
		10	8	35	30				19		30	36	11	<mark>1</mark> 0	
		10	8	37	30		19				30	38	11	10	
IGHT POLE W/ 4 FIXTURES		10	8	39	30	3P		19		3P	30	40	11	10	LIGHT POLE W/ 6 FIXTURES
		10	8	41	30				19		30	42	11	10	
PHASE A TOTAL AMPS					KVA	11	11								1
PHASE B TOTAL AMPS				88	KVA	11				TOTAL PANEL AMPS			PS	88	
PHASE C TOTAL AMPS				88	KVA	11				ТС	DIAL PAN	VEL K	/A	32	

180Y/277 VOLTS, 3 PHA	SE, 4 WIRE	, 400 A	MP, M	AIN B	REAKE	R									
SERVES		WRE SIZE	CIR. LOAD	CIR. NO.	AMPS	BRKR. SIZE	A	В	С	BRKR. SIZE	AMPS	CIR. NO.	CIR. LOAD	WRE SIZE	SERVES
			0	1			0					2	0		
			0	3				0				4	0		
			0	5					0			6	0		
			0	7			0					8	0		
			0	9				0				10	0		
			0	11					0			12	0		
		10	8	13	30		16				30	14	8	10	
IGHT POLE W/ 4 FIXTURES		10	8	15	30	3P		16		3P	30	16	8	10	LIGHT POLE W/ 4 FIXTURES
		10	8	17	30				<mark>16</mark>		30	18	8	10	
		10	8	19	30		17				30	20	9	10	
IGHT POLE W/ 4 FIXTURES		10	8	21	30	3P		17		3P	30	22	9	10	LIGHT POLE W/ 5 FIXTURES
		10	8	23	30	0			17		30	24	9	10	
		10	8	25	30		17				30	26	9	10	
IGHT POLE W/ 4 FIXTURES		10	8	27	30	3P		17		3P	30	28	9	10	LIGHT POLE W/ 5 FIXTURES
		10	8	29	30				17		30	30	9	10	
		10	8	31	30		19				30	32	11	10	
IGHT POLE W/ 4 FIXTURES		10	8	33	30	3P		19		3P	30	34	11	10	LIGHT POLE W/ 6 FIXTURES
		10	8	35	30				19		30	36	11	10	
		10	8	37	30		19				30	38	11	10	
IGHT POLE W/ 4 FIXTURES		10	8	39	30	3P		19		3P	30	40	11	10	LIGHT POLE W/ 6 FIXTURES
		10	8	41	30				19		30	42	11	10	
	PHASE A T	OTAL A	MPS	88	KVA	11									
	PHASE B T	OTAL A	MPS	88	KVA	11	1			TOTAL PANEL AMPS		88			
	PHASE C T		MPS	88	KVA	11				тс	TAL PAN	IEL K	/A	32	

PANEL EF - ROOM ELECTRIC 22,000 AMPS RMS. SYS. I.C. INTEGRATED EQUIPMENT RATING

8Y/120 VOLTS, 3 PHASE, 4	WRE, 225 AM	P,150A	Main Di	SCON	NECT										
SERVES		WRE SIZE	CIR. LOAD	CIR. NO.	AMPS	BRKR. SIZE	А	В	С	BRKR. SIZE	AMPS	CIR. NO.	CIR. LOAD	WRE SIZE	SERVES
		3	0	1	100	20	0					2	0		
INCESSION STAND PANEL	-	3	0	3	100	100 2P		0		20	100	4	0	3	
		3	0	5	100	20			0	25	100	6	0	3	EQUIPMENT / STORAGE FANEL
FICE PANEL		3	0	7	100	217	0					8	0		
			0	9				0				10	0		
			0	11					0			12	0		
			0	13			0					14	0		
			0	15				0				<mark>1</mark> 6	0		
			0	17					0			18	0		
			0	19			0					20	0		
			0	21				0				22	0		
			0	23					0			24	0		
			0	25			0					26	0		
			0	27				0				28	0		
			0	29					0			30	0		
			0	31			0					32	0		
			0	33				0				34	0		
			0	35					0			36	0		
			0	37			0					38	0		
			0	<mark>39</mark>				0				40	0		
			0	41					0			42	0		
PHASE A TOTAL AMP		MPS	0	KVA	0										
	PHASE B T	OTAL A	MPS	0	KVA	0	0			TOTAL PANEL AMPS		0			
	PHASE C T	OTAL A	MPS	0	KVA	0				TC	TAL PAN	IEL KV	/A	0	

	EXISTING FEEDER SCHEDULE										
		CONDUIT									
MARK	AMPS	SETS	PHASE	NEUTRAL	GRND/IG	ALL METAL					
A	400	1	(3) #350	(1) #350	#3 / #3	3"					
В	100	1	(3) #3	(1) #3	#8 / #8	2"					
С	125	1	(3) #1	(1) #1	#6 / #6	2"					
D	30	1	(3) #3	(1) #3	#10 / #10	1 1/2"					
E	125	1	(3) #1	(1) #1	#6 / #6	2"					
F	150	1	(3) 1/O	(1) 1/0	#6 / #6	2"					
NOTES	<u>):</u>										
1.	1. CONDUIT SIZE IS BASED ON COMMON CONDITIONS. FOR CERTAIN SITE										

2. CONDUIT FILL BASED ON NEC 2011 ANNEX C. ELECTRICAL METALLIC TUBING.

*OCPD SHALL BE FIELD VERIFIED

NOTE:

- 1. PRIOR TO DEMOLITION AND RELOCATIONS OF ANY ELECTRICAL COMPONENTS ELECTRICIAN SHALL EXAMINE AND VERIFY ALL EXISTING ELECTRICAL CONDITIONS AND CONNECTIONS TO ENSURE COMPATIBILITY WITH BELOW RISER. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER OF RECORD.
- 2. REMOVE ALL EXISTING PANELBOARDS AND CIRCUIT BREAKERS. STORE ANY AND ALL LIKE NEW MATERIAL FOR RE-USE. OWNER TO INSPECT ALL EQUIPMENT PRIOR TO DISPOSAL AND REMOVAL. 3. KEEP EXISTING CIRCUITS INTACT TO ALL CIRCUITS FOR RE-USE. ROUTE SITE / FIELD CIRCUITS TO IN GROUND JUNCTION BOXES AT



SCALE: N.T.S.



SCHOOL FACING

ROAD FACING

FICE FIELD LIGHTS" - ROOM ELECTRIC	SURFACE MOUN
. SYS. I.C. INTEGRATED EQUIPMENT RATING	
3 PHASE, 4 WIRE, 400 AMP, MAIN BREAKER	

SURFACE MOUNTED NEMA1 ENCLOSURE

EXISTING EQUIPMENT SHOWN FOR REFERENCE ONLY.

			FOOTBALL FIE
MARK	MANUFACTURER	MOD	EL
1	SQUARE D/ SCHNEIDER	NF342M	1Q400
2	SQUARE D/ SCHNEIDER	NF330M	1Q200
	SQUARE D/ SCHNEIDER	QO330N	/Q200

OL SQUARE D/ SCHNEIDER NF342MQ400 WALL MOUNT 400A 480Y/277VAC DISTRIBUTION PAREL EA -INTERIOR, NEMA 1 VERIEY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 20 SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 200A 480Y/277VAC DISTRIBUTION PAREL EC -INTERIOR, NEMA 1 VERIEY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 30 SQUARE D/ SCHNEIDER Q0330MQ200 WALL MOUNT 125A 208/120VAC DISTRIBUTION PAREL EB -INTERIOR, NEMA 1 SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 40 SQUARE D/ SCHNEIDER Q0342MQ150 WALL MOUNT 150A 208/120VAC DISTRIBUTION PAREL EF -INTERIOR, NEMA 1 VERIEY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 50 SQUARE D/ SCHNEIDER Q0342MQ150 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PAREL EF -INTERIOR, NEMA 1 VERIEY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 6 SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PAREL EF -INTERIOR, NEMA 1 SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT	WANN	MANUFACTURER	WODEL	WOONTING	AIVIF 3	VOLTAGE	DESCRIPTION	INOTES
Quare D/ Schneider NF330MQ200 WALL MOUNT 200A 480//277VAC DISTRIBUTION PANEL EC INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 3 SQUARE D/ SCHNEIDER Q0330MQ200 WALL MOUNT 125A 208/120VAC DISTRIBUTION PANEL EB INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 4 SQUARE D/ SCHNEIDER Q0342MQ150 WALL MOUNT 150A 208/120VAC DISTRIBUTION PANEL EF INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 5 SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PANEL EF INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 6 FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480Y/277VAC DISTRIBUTION PANEL EF INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENSINEER FOR APPROVAL PRIOR TO PROCUREMENT 6 FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480/277VAC 208/120V 30KVA STEP DOWN TRANSFORMER INTERIOR, NEMA 1 METER 27 892 407 BY FKEC 6 <	1	SQUARE D/ SCHNEIDER	NF342MQ400	WALL MOUNT	400A	480Y/277VAC	DISTRIBUTION PANEL EA - INTERIOR, NEMA 1	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
3 SQUARE D/ SCHNEIDER QQ330MQ200 WALL MOUNT 125A 208/120VAC DISTRIBUTION PANEL EB ·INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 40 SQUARE D/ SCHNEIDER QQ342MQ150 WALL MOUNT 150A 208/120VAC DISTRIBUTION PANEL EF ·INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 50 SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PANEL EF ·INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 60 FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480/277V 208Y/120V JISTRIBUTION PANEL EF ·INTERIOR, NEMA 1 SUBMITAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 70 PER FKEC N/A WALL MOUNT N/A 480/277VAC METER CAN ·INTERIOR, NEMA 3R METER 27 892 407 BY FKEC 60 PER FKEC N/A WALL MOUNT N/A 480/277VAC METER CAN ·EXTERIOR, NEMA 3R METER 24 956 048 BY FKEC 60 SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT N/A 480Y/277VAC	2	SQUARE D/ SCHNEIDER	NF330MQ200	WALL MOUNT	200A	480Y/277VAC	DISTRIBUTION PANEL EC - INTERIOR, NEMA 1	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
④ SQUARE D/ SCHNEIDER QQ342MQ150 WALL MOUNT 150A 208/120VAC DISTRIBUTION PANEL EF -INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBJITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT ⑤ SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PANEL EF -INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBJITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT ⑥ FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480/277V 208Y/120V 30KVA STEP DOWN TRANSFORMER -INTERIOR, NEMA 1 REUSE EXISTING TRANSFORMER ⑦ PER FKEC N/A WALL MOUNT N/A 480/277V 208Y/120V 30KVA STEP DOWN TRANSFORMER -INTERIOR, NEMA 1 REUSE EXISTING TRANSFORMER ⑦ PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER 27 892 407 BY FKEC ⑧ PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN -EXTERIOR, NEMA 3R METER 24 956 048 BY FKEC ⑨ SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBJITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUR	3	SQUARE D/ SCHNEIDER	QO330MQ200	WALL MOUNT	125A	208/120VAC	DISTRIBUTION PANEL EB - INTERIOR, NEMA 1	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
SQUARE D/ SCHNEIDER NF330MQ200 WALL MOUNT 150A 480Y/277VAC DISTRIBUTION PANEL EE INTERIOR, NEMA 1 VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 6 FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480/277V 208Y/120V 30kVA STEP DOWN TRANSFORMER INTERIOR, NEMA 1 REUSE EXISTING TRANSFORMER 7 PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN EXTERIOR, NEMA 1 METER 27 892 407 BY FKEC 8 PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN EXTERIOR, NEMA 3R METER 34 956 048 BY FKEC 9 SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 9 SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT	4	SQUARE D/ SCHNEIDER	QO342MQ150	WALL MOUNT	150A	208/120VAC	DISTRIBUTION PANEL EF -INTERIOR, NEMA 1	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
6 FEDERAL PACIFIC T4T30 WALL MOUNT N/A 480/277V 208Y/120V 30KVA STEP DOWN TRANSFORMER -INTERIOR, NEMA 1 REUSE EXISTING TRANSFORMER 7 PER FKEC N/A WALL MOUNT N/A 480/277VAC METER CAN -EXTERIOR, NEMA 3R METER 27 892 407 BY FKEC 8 PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN -EXTERIOR, NEMA 3R METER 34 956 048 BY FKEC 9 SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT 9 SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT	5	SQUARE D/ SCHNEIDER	NF330MQ200	WALL MOUNT	150A	480Y/277VAC	DISTRIBUTION PANEL EE -INTERIOR, NEMA 1	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
⑦ PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN -EXTERIOR, NEMA 3R METER 27 892 407 BY FKEC ⑧ PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN -EXTERIOR, NEMA 3R METER 34 956 048 BY FKEC ⑨ SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUEMENT ⑨ SQUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUEMENT	6	FEDERAL PACIFIC	T4T30	WALL MOUNT	N/A	480/277V 208Y/120V	30KVA STEP DOWN TRANSFORMER -INTERIOR, NEMA 1	REUSE EXISTING TRANSFORMER
⑧ PER FKEC N/A WALL MOUNT N/A 480Y/277VAC METER CAN -EXTERIOR, NEMA 3R METER 34 956 048 BY FKEC ⑨ \$QUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT ① \$QUARE D/ SCHNEIDER H364NAWK WALL MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT	7	PER FKEC	N/A	WALL MOUNT	N/A	480Y/277VAC	METER CAN -EXTERIOR, NEMA 3R	METER 27 892 407 BY FKEC
Image: Square D/ Schneider H364NAWK Wall MOUNT 200A 480Y/277VAC DISCONNECT -EXTERIOR, NEMA 3R VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT Image: Image: Square D/ Schneider H364NAWK Wall Mount 200A 480Y/277VAC DISCONNECT VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT Image: Imag	8	PER FKEC	N/A	WALL MOUNT	N/A	480Y/277VAC	METER CAN -EXTERIOR, NEMA 3R	METER 34 956 048 BY FKEC
SQUARE D/ SCHNEIDER H364NAWK WALL 200A 480Y/277VAC DISCONNECT VERIFY MODEL WITH MANUFACTURER & PROVIDE	9	SQUARE D/ SCHNEIDER	H364NAWK	WALL MOUNT	200A	480Y/277VAC	DISCONNECT -EXTERIOR, NEMA 3R	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT
-EXTERIOR, NEMA 3R SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT	10	SQUARE D/ SCHNEIDER	H364NAWK	WALL MOUNT	200A	480Y/277VAC	DISCONNECT -EXTERIOR, NEMA 3R	VERIFY MODEL WITH MANUFACTURER & PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT

PANEL EB "VARIOUS"- ROOM ELECTRIC
22,000 AMPS RMS. SYS. I.C. INTEGRATED EQUIPMENT RATING
208Y/120 VOLTS, 3 PHASE, 4 WIRE, 125 AMP, 100A MAIN DISCONNECT

-	-															
SEF	RVES		WRE SIZE	CIR. LOAD	CIR. NO.	AMPS	BRKR. SIZE	Α	В	С	BRKR. SIZE	AMPS	CIR. NO.	CIR. LOAD	WRE SIZE	SERVES
			3	0	1	100		0				30	2	0	10	
EED FROM TRANSF	FORMER	2	3	0	3	100	3P		0		3P	30	4	0	10	LEFT FIELD LIGHT POLE 100A PANEL
			3	0	5	100				0		30	6	0	10	
ENNIS RECEPTACL	LES		12	0	7	20	1P	0	-			30	8	0	10	
	Ec		10		9	20	40		0	<u> </u>	3P	30	10	0	10	RIGHT FIELD LIGHT POLE 100A PANEL
LINNIS RECEPTACE	-20		12		11	20	ΠP	0		U		3U 50	14	0	٦U و	
25A PRESS BOX PA	NEL		8		15	50	3P	0	0		3P	50	16	0	8	(2) 125A PANELS:
			8		17	50				0		50	18	0	8	GROUNDS SHED & SCOREBOARD
			10		19	30		0			1P	20	20	0	12	RECEPTACLE @ PANEL
IELD SPRINKLER P	20M₽		10	0	21	30	3P		0		1P	20	22	0	12	BATTING CAGES
			10	0	23	30				0	1P	20	24	0	12	BATTING CAGES
				0	25			0					26	0		
				0	27				0				28	0		
				0	29					0			30	0		
		PHASE A		MPS	0	KVA	0				<u> </u>					
		PHASE B	TOTAL A	MPS	0	KVA	0				TO	TAL PAN	el am	PS	0	
		PHASE C	TOTAL A	MPS	0	KVA	0				тс	DTAL PAN	IEL K\	/A	0	
	BALL F	IELD" - RO														SURFACE MOUNTED NEMA1 ENCLOSU
)Y/277 VOLTS, 3 PH	ASE, 4 \	MRE, 125 AM	P, MAIN	DISCON	NECT											
SED	VES		WRE	CIR.	CIR.		BRKR.	Δ	R	C	BRKR.	AMPS	CIR.	CIR.	WRE	SERVES
	0		SIZE	LOAD	NO.	V UVIE O	SIZE				SIZE	/ WIPO	NO.	LOAD	SIZE	
ARE			8	0	1	40	2P	0	-		2P	20	2	0	12	SPARE
			8	0	3	40			0	_		20	4	0	12	
ARE			ð o	0	5	40	2P	<u> </u>		U	2P	20	6	0	12	SPARE
			8	0	/	40		U	20			20	8	20	12	
			10	0	9	30	30		30	20	30	60	10	30	6	
LD TO STEP DOVIN			10	0	12	30	JF	30		30	JF	60	12	30	6	
			6	0	15	- 30 - 60		30	30			60	14	30	6	
D SEWAGE TREAMENT PLANT			6	0	15	60	30		30	30	30	60	10	30	6	
			6	0	10	60	01	30		- 30	60	60	20	30	6	
	Ū	0	21	00		00	0			00	20	0	0			
				0	23					0			24	0		
				0	25			0					26	0		
				0	27				0				28	0		
				0	29					0			30	0		
		PHASE A T		N PS	60	KVA	7		<u> XIIIIIIIIII</u>							i
	-	PHASE B T		VIPS	60	KVA	7				TO	TAL PAN	el am	PS	60	
		PHASE C T		√IPS	60	KVA	7		/		тс		IEL K\	/A	22	
ANEL EE "FOOT 2,000 AMPS RMS. S 80Y/277 VOLTS, 3 P	TBALL SYS. I.C. PHASE, 4	FIELD LIGH INTEGRATEL WRE, 125 A	ITING" EQUIP MP, MAIN	- ROO MENT F	M ELI RATING		>								S	URFACE MOUNTED NEMA3R ENCLOSU
SEF	RVES		WRE	CIR.	CIR.	AMPS	BRKR.	A	в	С	BRKR.	AMPS	CIR.	CIR.	WRE	SERVES
			SIZE		NO.	20	SIZE	0			SIZE		NO. 2		SIZE	
PARE			12		1	20	2P	U	<u> </u>				2	0		
			12		5	20				0			4 6	0		
				- 0	7			n					8	0		
				0	9				0				10	0		
				n	11					0			12	0		
			4		13	80		0					14	0		
PARE			4	0	15	80	3P		0				16	0		
			4	0	17	80				0			18	0		
			6	30	19	60		30		-			20	0		
OOTBALL FIELD SE LIGHT POLE			6	30	21	60	3P		30				22	0		
			6	30	23	60				30			24	0		
			6	30	25	60		30					26	0		
OOTBALL FIELD NE	ELIGHT	POLE	6	30	27	60	3P		30				28	0		
			6	30	29	60				30			30	0		
		PHASE A				KVA			<u>xIIIIIIII</u>		<u> </u>	I		~		
	PHASE B	TOTAL	AMPS	60	KVA	/ -		//		TO		el ami	S	60		
PHASE C TOTAL AMPS						KVA	7				тс		IEL KV	/A	22	
E	XIS	TING	EQ	UIF	PME	ENT	SC	HE	DU	LE					LL	
L	MOUI	NTING	AMPS	3 V(OLTA	GE		DE	SCRIF	PTION	1			NOT	ES	
400		400 4	40	0V/077								VERI	FY MO)EI \//I		

SERVES		WRE SIZE				
SDARE		8				
SFARE		8				
SPARE		8				
		8				
		10				
FEED TO STEP DOWN TRANSFORMER						
		6				
OLD SEWAGE TREAMENT PLANT						
		6				
	PHASE A T	OTAL				
	PHASE B T	OTAL				
	PHASE C T	OTAL				

4001/211 VOL13, 3 FHASE, 4	VINE, 125 AVI	-, IVI
SERVES		WF SIZ
SDADE		1
SFARE		1
		4
SPARE		4
		4
		6
FOOTBALL FIELD SE LIGHT I	POLE	6
		6
		6
FOOTBALL FIELD NE LIGHT	POLE	6
		6
	PHASE A TO	ATC
	PHASE B T	OTA
	DUASE C T	OTA



Date: February 8, 2017 ©2017 by k2m Design, Inc.

ARCHITECT/ENGINEER:

RIC QUIPMENT RATING

SURFACE MOUNTED NEMA3R ENCLOSURE



LINE, BUILDING STEEL, GROUNDING ROD, ETC. AS REQUIRED.

JUIP.						
ARK	AMPS	SETS	PHASE	NEUTRAL	GRND/IG	
А	300	1	(3) #350	(1) #350	#4 / #4	3"
С	300	1	(3) #350	(1) #350	#4 / #4	3"
T	100	1	(3) #3	(1) #3	#8 / #8	2"
F	225	1	(3) 4/O	(1) 4/O	#4 / #4	2"
IOTES	<u>S:</u>					

														ARCHITECT/ENGINEER
			ENT RA										SQUARE D NF442L4C OR EQUIV.	
, 300 A WRE	MP, M CIR.	AIN D CIR.	AMPS	NEC I BRKR.	А	В	С	BRKR.	AMPS	CIR.	CIR.	WRE	SERVES	
SIZE 10	LOAD 13	NO. 1	30	SIZE	26			SIZE	30	NO. 2	LOAD 13	SIZE 10		Architecture, Engineering,
10	13	3	30	3P		26		3P	30	4	13	10	LIGHT POLE W 4 FIXTURES	Interior Design, Asset Management,
10 10	13 13	5 7	30 30		26		26		30 30	6 8	13 13	10 10		Specialty Consulting
10	13	9	30	3P	20	26		3P	30	10	13	10	LIGHT POLE W 4 FIXTURES	1150 Virginia Street Key West, Florida 33040
10	13	11	30				26		30	12	13	10	-	Tel: 305.292.7722 Fax: 305.292.2162
10 10	13 13	13 15	30 30	3P	26	26		3P	30 30	14 16	13 13	10 10	LIGHT POLE W 4 FIXTURES	URL: www.k2mDesign.com
10	13	17	30				26		30	18	13	10		FL CERT. OF AUTH. 30945
10	16	19 21	30	30	32	30		ЗÞ	30	20	16	10		Building Relationships Based on Trust and Results
10	16	23	30	U.		52	32	01	30	24	16	10		Cleveland Columbus Indianapolis Key Largo Key West Marathon Charlotte Baltimore Bentonville
10	19	25	30		38				30	26	19	10		
10 10	19 19	27 29	30 30	ЗР		38	38	35	30 30	28 30	19 19	10 10	LIGHT POLE W 6 FIXTURES	
	0	31			0					32	0			
	0	33				0	0			34	0			
	0	37			0		0			38 38	0			
	0	39				0				40	0			
	0 MPS	41	KVA	18			0			42	0			
OTAL A	MPS	148	KVA	18		/		TO	TAL PAN	el am	PS	148		ENGINEER SEAL
OTAL A	MPS	148	KVA	18				ТС	TAL PAN	IEL K\	/ A	53		No 73110
AISC" -	ROO		ECTRIC	;									SURFACE MOUNTED NEMA1 ENCLOSURE	ten hasly t
Equipi 1P, Main	MENT R. I DISCO	ATING NNEC	T										SQUARE D NF430L4C OR EQUIV.	C. C. R. I.D. K. C. L. L.
WRE SIZE	CIR. LOAD	CIR. NO.	AMPS	BRKR. SIZE	А	В	С	BRKR. SIZE	AMPS	CIR. NO.	CIR. LOAD	WRE SIZE	SERVES	LIC #: 73110
6	38	1	60		76				60	2	38	6		Expiration Date: February 28,2018
6	38	3	60	3P		76	76	3P	60 60	4	38	6	OLD EC-16/18/20	Revisions:
6	38	7	60		76				60	8	38	6		
6	38	9	60	3P		76		3P	60	10	38	6	FOOTBALL FIELD NE LIGHT POLE OLD EE-25/27/29	
6	38 0	11 13	60		80		76		60 100	12 14	38 80	6 3		
	0	15				80		3P	100	16	80	3	OLD EC-9/11/13 WITH NEW BREAKER	
	0	17			0		80		100	18	80	3	SIZE	
	0	21			0	0				20	0			
	0	23					0			24	0			
	0	25 27			0	0				26 28	0			
	0	29					0			30	0			
	MPS	232	KVA	28				ТО			PS		1	
	MPS	232	KVA	28				тс			VA	84		
					e									
			3										SOUARE D QO342I 225G OR FQUIV	
WRE	CIR.	CIR.	414720	BRKR.				BRKR.	414700	CIR.	CIR.	WRE		
SIZE	LOAD	NO.	AMPS	SIZE	A 50	В	C	SIZE	AMPS 30	NO.	LOAD	SIZE	SERVES	N N N N N N N N N N N N N N N N N N N
8	35	3	50	3P		50		3P	30	4	15	10	LEFT FIELD LIGHT POLE PANEL OLD FB-2/4/6	
8	35	5	50				50		30	6	15	10		
10 10	20 20	7 9	30 30	3P	35	35		3P	30 30	8 10	15 15	10 10	RIGHT FIELD LIGHT POLE PANEL	So ² , ² ²
10	20	11	30	-			35		30	12	15	10	OLD EB-8/10/12	
3	35	13	100	2P	65	65		30	50	14	30	8	GROUND SHED &	
3	20	17	100			03	50	0	50	18	30	8	OLD EB-14/16/18	
3	20	19	100		26				20	20	6	12	TENNIS COURT RECEPTACLES OLD EB-7	
3	20 20	21 23	100	2P		26	26		20 20	22	6 6	12 12	TENNIS COURT RECEPTACLES OLD EB-11	
12	6	25	20		12				20	26	6	12	BATTING CAGE POWER OLD EB-22	A A
12	6	27	20			12	10		20	28	6	12	BATTING CAGE POWER OLD EB-24	lö ⊮
12 12	6 4	31	20		8		12		20	30 32	6 4	12 12	POLE BARN LIGHTING LIGHTING CONTROLS - FOOTBALL FIELD	
	0	33				0				34	0			<u>ک</u> ا
	0	35			0		0			36	0			
	0	39				0				40	0			
	0	41	perce				0]		42	0			Drawing Size Project #
	AMPS AMPS	196	KVA KVA	24	arepsilon			то	TAL PAN	EL AV	1PS	186		24x36 16172
	AMPS	173	KVA	21				Т	otal Pan	NEL K	VA	67		Drawn By: Checked By: BW SG
														Title:

STOR. ()Drawing Size | Project #: 24x36 16172 Checked By Drawn By: SG BW Title: NEW ELECTRICAL SCHEDULES & CALCULATIONS

REMODI

ONCESSION

Ŭ

Ш

C

 \checkmark

Sheet Number: E6.1.2 Date: February 8, 2017 ©2017 by k2m Design, Inc.

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

WARNING

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.



