SITE 35 AIR MONITORING STATION

I-95 SOUTHBOUND BROWARD COUNTY, FL PROJECT #CMD 8312-2011-00

MARTIN DAVID KIAR KRISTIN JACOBS STACY RITTER CHIP LAMARCA LOIS WEXLER SUE GUNZBURGER TIM RYAN BARBARA SHARIEF DALE V.C. HOLNESS BERTHA HENRY, COUNTY ADMINISTRATOR

LOCATION MAP

OCC.

OPNG.

PART.

Occupant(s)

Opening

PRCST. Pre-cast

Opposite

ARCHITECT:

SYNALOVSKI ROMANIK SAYE, LLC. 1800 ELLER DRIVE, SUITE 500 FORT LAUDERDALE, FL 33316 PHONE: 954.961.6806 FAX: 954.961.6807

Cement

Concrete

Continuous

Ceramic Tile

CONSTR. Construction

Chain Link Fence

CIVIL ENGINEER

KEITH & ASSOCIATES, INC. 301 EAST ATLANTIC BOULEVARD POMPANO BEACH, FLORIDA 33306 (954) 788-3400 LICENSE NO. 7928

C.I.

CLNG.

CLOS.

CLR.

C.O.

COL.

COMM.

COMP.

CONC.

CTR.

MEP ENGINEER:

EXIST. Existing

EXPO. Exposed

EXP. Expansion

Exterior

Fire Alarm

Flat Bar

F.E. Fire Extinguisher

F.H.C. Fire Hose Cabinet

FLR. Floor

FLASH. Flashing

FLUOR. Fluorescent

F.O.C. Face of Concrete

F.O.F. Face of Finish

F.O.S. Face of Studs

FT. Foot or Feet

Fire Prevention Code

Florida Building Code

DBL. Double

East

Expansion Joint

Elevation

Electrica

E.W.C. Electric Water Cooler

E.W.H. Electric Water Heater

Elevator

EMERG. Emergency

ENCLOS. Enclosure

ELEV.

DELTA G CONSULTING ENGINEERS, INC. HOLLYWOOD, FLORIDA 33304 PH: (954) 527-1112

FURR. Furring

GA. Gauge

GALV. Galvanized

Grade

G.W.B. Gypsum Wallboard

Hose Bibb

Handicap

Hollow Meta

Inside Diameter (Dim.)

G.B. Grab Bar

INT.

Interior

Joint

Laboratory

Laminate

Lavatory

Maximum

Mechanical

North

MANUF. Manufacturer, Manufactured

Moisture Resistant

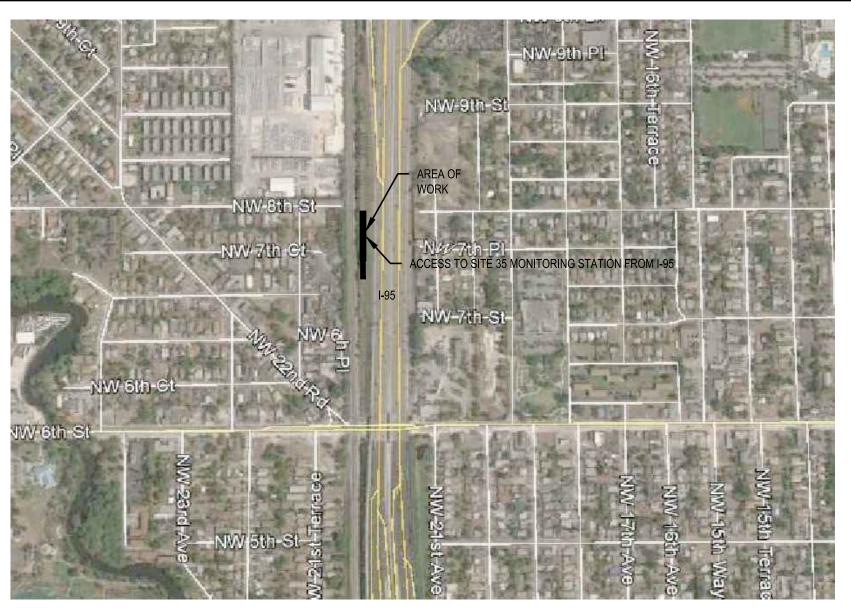
Net Square Foot

Not To Scale

O.C. On Center

STRUCTURAL ENGINEER:

S & F ENGINEERS, INC. 2925 W. CYPRESS CREEK RD. SUITE 200 FORT LAUDERDALE, FLORIDA 33309 (954) 938-0020 LICENSE NO. 8852



R.O. Rough Opening

S.C. Solid Core

SCHED. Schedule

Specification

Service Sink

Symmetrica

ST.STL. Stainless Stee

STOR. Storage

STRUCT. Structural

SUSP. Suspended

T.C. Top of Curb

SECT.

S.SK.

STL.

TRD.

ELECTRICAL FLOOR PLANS, RISER DIAGRAMS AND SCHEDULES DRAWING INDEX SCALE: NTS SECTION INTERIOR FLEVATION REFERENCE T.&G. Tongue and Groove EXTERIOR ELEVATION REFERENCE T.P. Top of Pavement T.P.D. Toilet Paper Dispenser KEY NOTE REFERENCE U.O.N. Unless Otherwise Noted ROOM REFERENCE WINDOW REFERENCE Vinyl Composition Tile DOOR REFERENCE V.I.F. Verify in Field **REVISION REFERENCE** Water Closet WALL TYPE REFERENCE **ELEVATION MARK** FURNITURE/ EQUIPMENT

TEL. Telephone

TEMP. Tempered

T.O. Top of

VERT. Vertical

Wood

Without

WSCT. Wainscot

Terrazzo

TER.

TYP.

VCT

VEST.

W/O

F 954.961.6807

Manuel Synalovski, AIA AR 0011628

LICENSE NO. AA26001863

€0

A & **1** SIB

DELIVERABLE: **PERMIT** ISSUE DATE: **04.22.14**

PROJECT NUMBER: 1059-120610 DRAWN BY: MO **CHECKED BY: MR** Copyright (c) by SYNALOVSKI ROMANIK SAYE, LLC

COVER SHEET GENERAL NOTES

SYMBOL LEGEND

COVER SHEET/ GENERAL NOTES

MAINTENANCE OF TRAFFIC (MOT) PLAN

AIR MONITORING STATION SPECIFICATION

FOUNDATION PLAN, DETAILS AND NOTES

PARTIAL ELECTRICAL SITE PLAN

SITE PLAN/FLOOR PLAN/ELEVATION AND DETAILS

ELECTRICAL INDEX, SYMBOL LEGEND AND NOTES

SHEET NUMBER

ELEVATION NUMBER

SHEET NUMBER

- ELEVATION NUMBER

- SHEET NUMBER

--- REFERENCE NUMBER

--- ROOM NUMBER

— WINDOW NUMBER

— DOOR NUMBER

X REVISION NUMBER

XXX─ ROOM NAME

(xx)

GRADING PLAN

STRUCTURAL

ELECTRICAL

Cabinet CAB.

ABBREVIATION

5 | PROJECT CONSULTANTS

SCALE: NTS

A.D.

APPROX.

ARCH.

ASSIST.

BITUM.

BLDG.

BLKG.

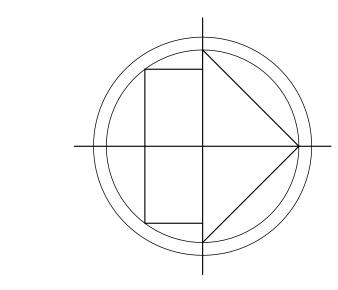
B.O.

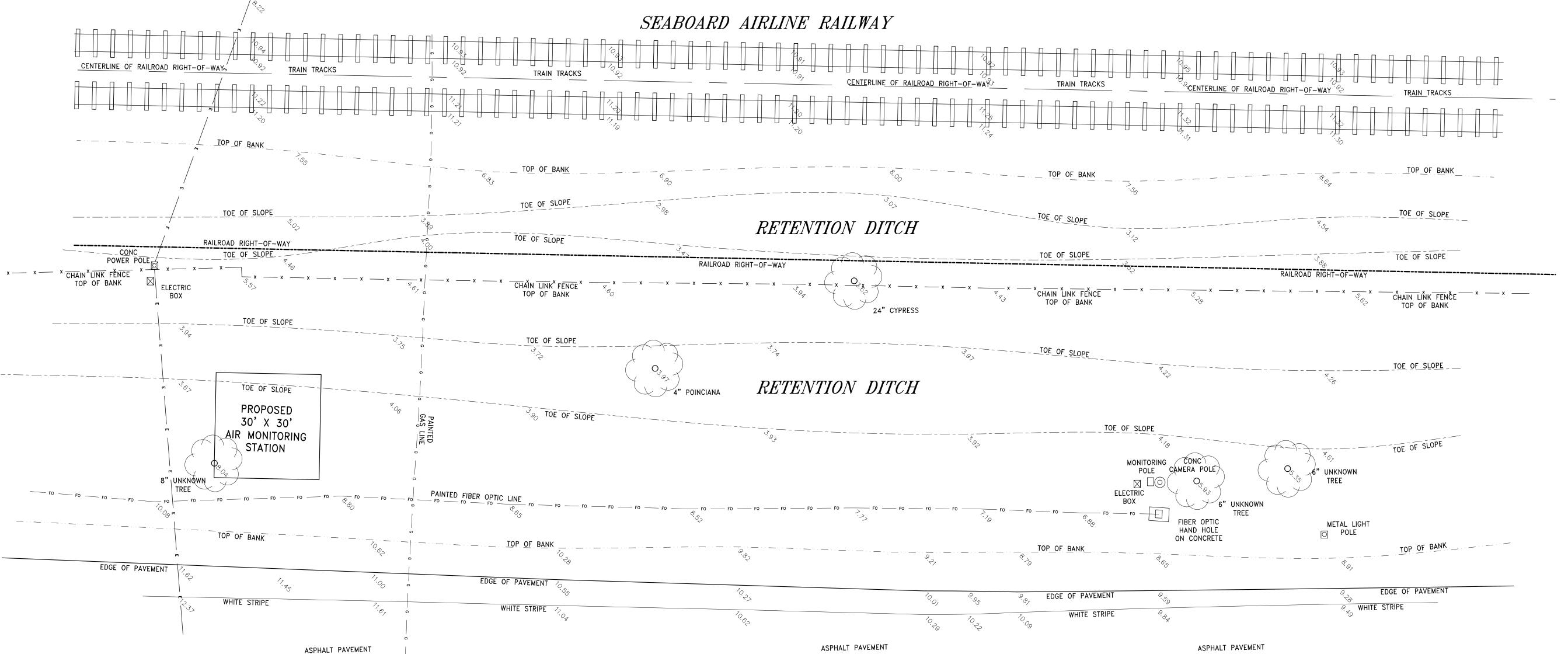
BOT.

REFERENCE

T-001

SPECIFIC PURPOSE SURVEY





LEGEND:

CHECKED BY CONCRETE DRAWN BY

FIELD BOOK AND PAGE SET IRON ROD & CAP #6448 SET NAIL AND CAP #6448

FOUND IRON ROD FOUND IRON PIPE FOUND NAIL AND CAP FOUND NAIL & DISC

PLAT BOOK

BROWARD COUNTY RECORDS

WOOD POWER POLE CHAIN LINK/ WOOD FENCE

ELEVATION

CONCRETE BLOCK STRUCTURE

OVERHEAD UTILITY WIRES

AIR CONDITIONER YARD DRAIN

ELEVATIONS

NOTES:

- 1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- 2. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS—OF—WAY, EASEMENTS, OWNERSHIP, OR OTHER INSTRUMENTS OF RECORD.
- 3. THIS SURVEY WAS DONE SOLELY FOR DESIGN PURPOSES AND DOES NOT DEPICT THE JURISDICTION OF ANY MUNICIPAL, STATE, FEDERAL OR OTHER ENTITIES.
- 4. ONLY PAINTED UNDERGROUND IMPROVEMENTS SHOWN.
- 5. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- 6. BENCHMARK DESCRIPTION: BROWARD COUNTY BENCHMARK # 3069 ELEVATION = 7.38



LOCATION MAP (NTS)

I HEREBY CERTIFY THAT THE "SPECIFIC PURPOSE SURVEY" OF THE HEREON DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN THE FIELD UNDER MY DIRECTION IN JULY, 2013.

I FURTHER CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA ACCORDING TO CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE. PURSUANT TO SECTION 472.027, FLORIDA STATUTES. THERE ARE NO ABOVE GROUND ENCROACHMENTS OTHER THAN THOSE SHOWN HEREON, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

FOR THE FIRM. BY: ------

SURVEY DATE : 07/31/13

RICHARD E. COUSINS

PROFESSIONAL SURVEYOR AND MAPPER

FLORIDA REGISTRATION NO. 4188

COUSINS SURVEYORS & ASSOCIATES, INC. 3921 SW 47TH AVENUE, SUITE 1011
DAVIE, FLORIDA 33314
CERTIFICATE OF AUTHORIZATION: LB # 6448
PHONE (954) 689-7766 FAX (954) 689-7799

CLIENT :

SITE 35 AIR MONITORING STATION SYNALOVSKI ROMANIK SAYE

SOUTH BOUND I-95

SPECIFIC PURPOSE SURVEY

REVISIONS	DATE	FB/PG	DWN	CKD
LOCATION AROUND MONITORING STATION	07/31/13	SKETCH	АМ	REC
REVISED PROPOSED LOCATION OF 30' X 30' AIR MONITORING STATION	08/07/13	SKETCH	АМ	REC

PROJECT NUMBER : 7076-1

SCALE : 1" = 16'

3

8

ORIN

SHEET NO. C-1

CONCUR THAT THIS REQUIREMENT IS MET PRIOR TO COMMENCING ANY EARTHWORK.

PROJECT NO. 08400.10

 \Box

ADING

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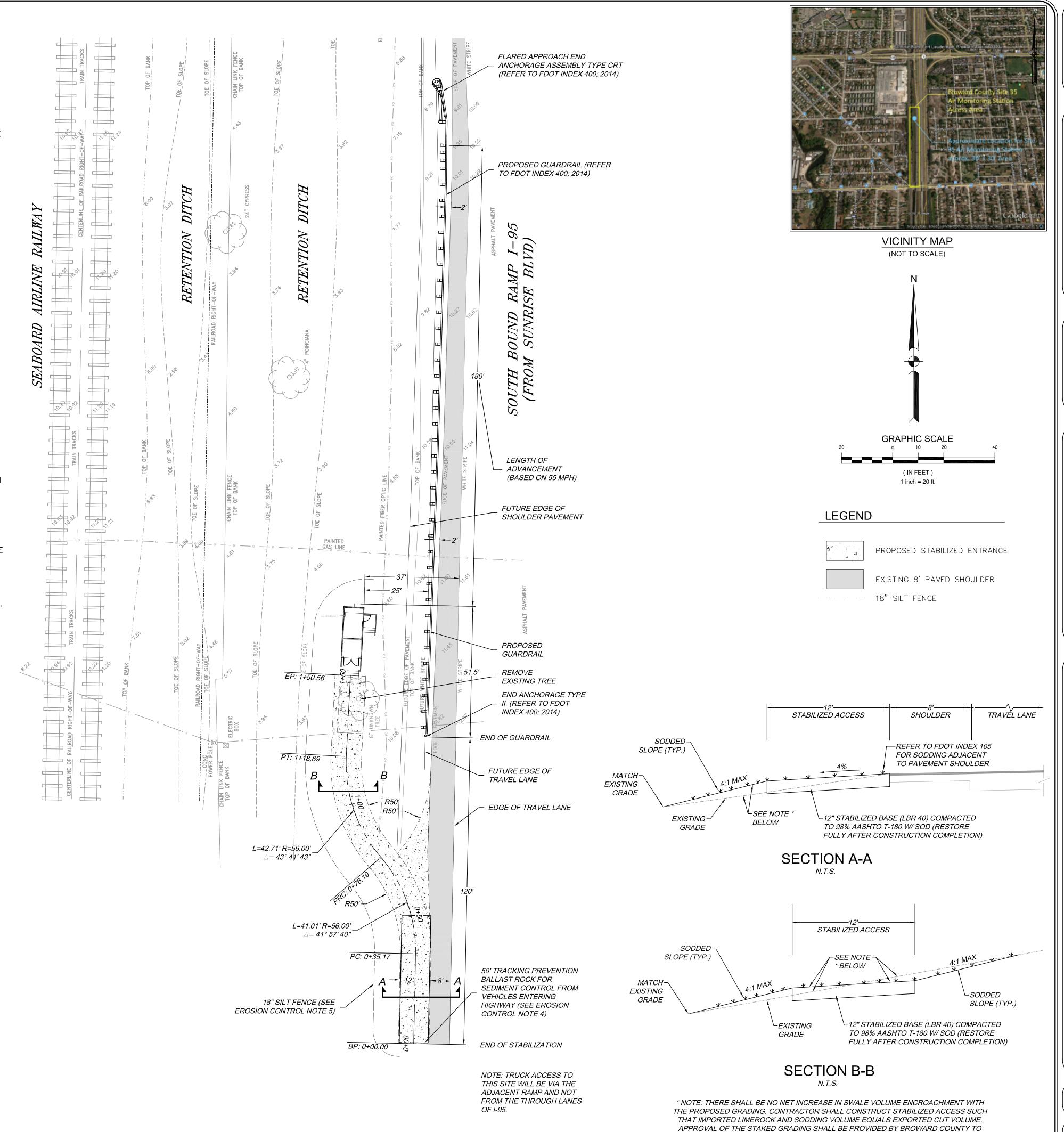
5

GENERAL NOTES:

- 1. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAVE BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 2. THE TOPOGRAPHIC SURVEY INCLUDED WITH THIS SET OF PLANS REFLECTS EXISTING CONDITIONS. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE IN DETERMINING THE REQUIRED EARTHWORK FOR THE PROPOSED DEVELOPMENT OF THE SITE. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY EXCAVATION/DREDGE AND FILL ACTIVITIES REQUIRED AT ANY PHASE OF THE PROJECT. THE CONTRACTOR SHALL USE THE FINAL APPROVED (RELEASED FOR CONSTRUCTION) PLANS, SURVEYS, GEOTECHNICAL REPORTS, AND ANY OTHER AVAILABLE INFORMATION FOR DETERMINING THE AMOUNT OF EXCAVATION/DREDGING AND FILLING REQUIRED.
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEARING/GRUBBING WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING ALL UNDESIRABLE VEGETATION AND TREE REMOVAL WITHIN PROJECT LIMITS. CONTRACTOR IS RESPONSIBLE FOR PROCESSING TREE REMOVAL PERMITS THROUGH THE AGENCIES HAVING JURISDICTION AND FOR PROVIDING REQUIRED TREE/ROOT PROTECTION MEASURES. BURNING OF PLANTS OR FIRES ARE STRICTLY PROHIBITED FOR TREE REMOVAL. FOR TREE REMOVAL ALL STUMPS, MAIN ROOT BALL AND ROOT SYSTEM ARE TO BE REMOVED.
- 4. ALL WASTE MATERIAL/DEBRIS TO BE PROPERLY DISPOSED OF OFF-SITE BY CONTRACTOR.
- 5. ALL AREAS OUTSIDE THE PROJECT LIMITS DAMAGED BY THE CONSTRUCTION WORK MUST BE RESTORED TO ITS ORIGINAL CONDITION, INCLUDING AREAS COVERED WITH SOD, CONCRETE, AND PAVEMENT.
- 6. DEMOLITION WORK TO BE PERFORMED IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE REGULATORY AGENCIES HAVING
- 7. DEMOLITION WORK TO BE CLOSELY COORDINATED WITH PROPOSED IMPROVEMENTS TO MINIMIZE ANY POSSIBLE DELAYS AND/OR INCONVENIENCES.
- 8. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK TO MINIMIZE INCONVENIENCE/DISTURBANCE TO ADJACENT OCCUPIED AREAS. DEMOLITION WORK SHALL BE COMPLETED IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE PROPOSED IMPROVEMENTS AND PREVENT DAMAGE AND EXCESSIVE NOISE/VIBRATION SO AS NOT TO DISTURB ADJACENT OCCUPIED AREAS. ANY OPERATION THAT MAY CAUSE DISTURBANCE SHALL BE COORDINATED WITH THE CITY/COUNTY/FDOT. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE DEMOLITION WORK WITH THE CITY/COUNTY/FDOT PRIOR TO START OF WORK TO MINIMIZE THE DISRUPTION OF SERVICES AND PROVIDE CONTINUOUS MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO UTILITY SERVICE IS INTERRUPTED AT ANY TIME TO ANY ADJACENT PROPERTIES.
- 9. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SAFE AND ADEQUATE VEHICULAR ACCESS THROUGHOUT CONSTRUCTION OPERATIONS.
- 10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE OF TRAFFIC THROUGHOUT CONSTRUCTION. THE MOT SHALL BE PERFORMED IN ACCORDANCE TO THE MUTCD AND FDOT STANDARDS AND SHALL BE APPROVED BY THE COUNTY, CITY, FDOT, THE ENGINEER AND ANY OTHER APPLICABLE AGENCIES PRIOR TO STARTING CONSTRUCTION OF THE PROJECT. NO WORK SHALL COMMENCE UNTIL ALL MAINTENANCE OF TRAFFIC FACILITIES ARE IN PLACE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ALL OF THE PERMITS PREVIOUSLY ACQUIRED FOR THIS PROJECT. THE CONDITIONS OUTLINED IN THE PERMITS ARE IN FORCE AND FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH ALL OF THE REQUIREMENTS OF THESE PERMITS AS WELL AS ANY GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT.
- 12. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A VALID NPDES PERMIT, UNLESS SUCH PERMIT IS DETERMINED TO BE NON-APPLICABLE BY REGULATORY AGENCY HAVING PROPER JURISDICTION REGARDING THIS MATTER. REGARDLESS OF WHETHER AN NPDES PERMIT IS REQUIRED, THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTAIN ALL UNCONFINED PARTICULATE MATTER WITHIN THE PROJECT BOUNDARIES.
- 13. CONTRACTOR SHALL ADJUST/RESTORE ALL STRUCTURE/BOX FRAMES & COVERS, AND EXISTING SIGNAGE/PAVEMENT MARKINGS AFFECTED BY THE PROPOSED IMPROVEMENTS & NEW LAYOUT. CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY RELOCATION AND GRADE ADJUSTMENTS WITHIN PROJECT LIMITS AND FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES PRIOR TO ADJUSTMENTS. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 811.
- 15. INFORMATION AS THE LOCATION OF EXISTING UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS OF SUCH INVESTIGATIONS AS SHOWN ON THE DRAWINGS ARE NOT GUARANTEED AS TO THE ACCURACY. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO SATISFY HIMSELF AS TO THE EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO SAID UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING CONFLICTS BETWEEN ALL EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ALL CONFLICTS.
- 17. THE CONTRACTOR SHALL MINIMIZE THE AREA OF HARMONIZATION BY GRADING THE AREA TO BEST FIT THE EXISTING CONDITIONS. ALL DISTURBED AREAS SHALL BE RESTORE TO MATCH EXISTING CONDITIONS. FOLLOWING THE COMPLETION OF THE BUILDING CONSTRUCTION THE CONTRACTOR SHALL FULLY RESTORE THE ACCESS DRIVE AND SOD SAME FOR OPERATIONAL USE.
- 18. REFER TO ARCHITECTURAL, PLUMING AND/OR ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS & PROPOSED IMPROVEMENTS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY RECORD DRAWINGS TO THE COUNTY. ONCE THE RECORD DRAWINGS ARE APPROVED BY THE COUNTY, THE COUNTY WILL SUBMIT FINAL COMPLETION PACKAGES WITH COPIES OF THE RECORD DRAWINGS TO THE AGENCIES FOR PERMIT CLOSE—OUTS. THE RECORD DRAWINGS SHALL INDICATE ALL INFORMATION REQUIRED BY THE COUNTY, FDOT AND ANY OTHER AGENCIES HAVING JURISDICTION. THE RECORD DRAWINGS PROVIDED BY THE CONTRACTOR SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR CURRENTLY REGISTERED IN THE STATE OF FLORIDA AND SHALL BE FIRST REVIEWED BY THE CONTRACTOR TO ASSURE THEY ARE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE COUNTY, FDOT AND ANY OTHER PERMITTING AGENCIES IN ORDER TO OBTAIN PERMIT CLOSE—OUTS. THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL PERMITS HAVE BEEN CLOSED—OUT.
- 20. CONTRACTOR SHALL RETAIN A FLORIDA LICENSED SURVEYOR TO ESTABLISH THE HORIZONTAL CONTROL FOR THIS PROJECT. A LAYOUT PLAN FOR THE PROPOSED IMPROVEMENTS MUST BE SUBMITTED AND APPROVED BY BROWARD COUNTY WITH SET HORIZONTAL CONTROL MONUMENTS DEPICTED ON SAID PLAN FOR SITE INSPECTION REFERENCE BY ALL PARTIES.

EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).
- 2. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED.
- 3. CATCH BASIN, INLETS AND STORM SEWER MANHOLES STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.
- 4. THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER FDOT DESIGN STANDARDS 2010 INDEX 106. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
- 5. THE CONTRACTOR SHALL INSTALL A TYPE III SILT FENCE (18") AS PER FDOT DESIGN STANDARDS 2010 INDEX 102.



- 1. THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS. THE CURRENT EDITION
- OF FLORIDA DOT DESIGN STANDARDS (600 SERIES) SHALL GOVERN THE TRAFFIC CONTROL WORK.

 2. CURRENT EDITIONS OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL ALSO GOVERN THE MAINTENANCE OF TRAFFIC WORK.

 3. CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION. THESE TRAFFIC CONTROLS SHALL REMAIN IN PLACE UNTIL ALL WORK FOR THIS PROJECT IS COMPLETED. FOLLOWING ACCEPTANCE OF THE WORK BY ALL APPLICABLE AGENCIES THESE TRAFFIC CONTROLS SHALL BE PROMPTLY
- 4. THIS PLAN IS DETAILED FROM FDOT INDEX 602. CONTRACTOR SHALL REFER TO INDEX 602 FOR POSITIONING AND INTERVAL REQUIREMENTS OF THE CONES. THE CONES SHALL BE PROVIDED IN ACCORDANCE WITH FDOT INDEX 600, SHEET 12 OF 13
- 5. FOLLOWING THE INSTALLATION OF THE TRAFFIC CONTROLS, THE SEQUENCE OF CONSTRUCTION SHALL PROCEED WITH THE GUARDRAIL INSTALLATION AND SUBSEQUENTLY THE STABILIZED ACCESS TO THE BUILDING STRUCTURE.

SIGNAGE STANDARDS:

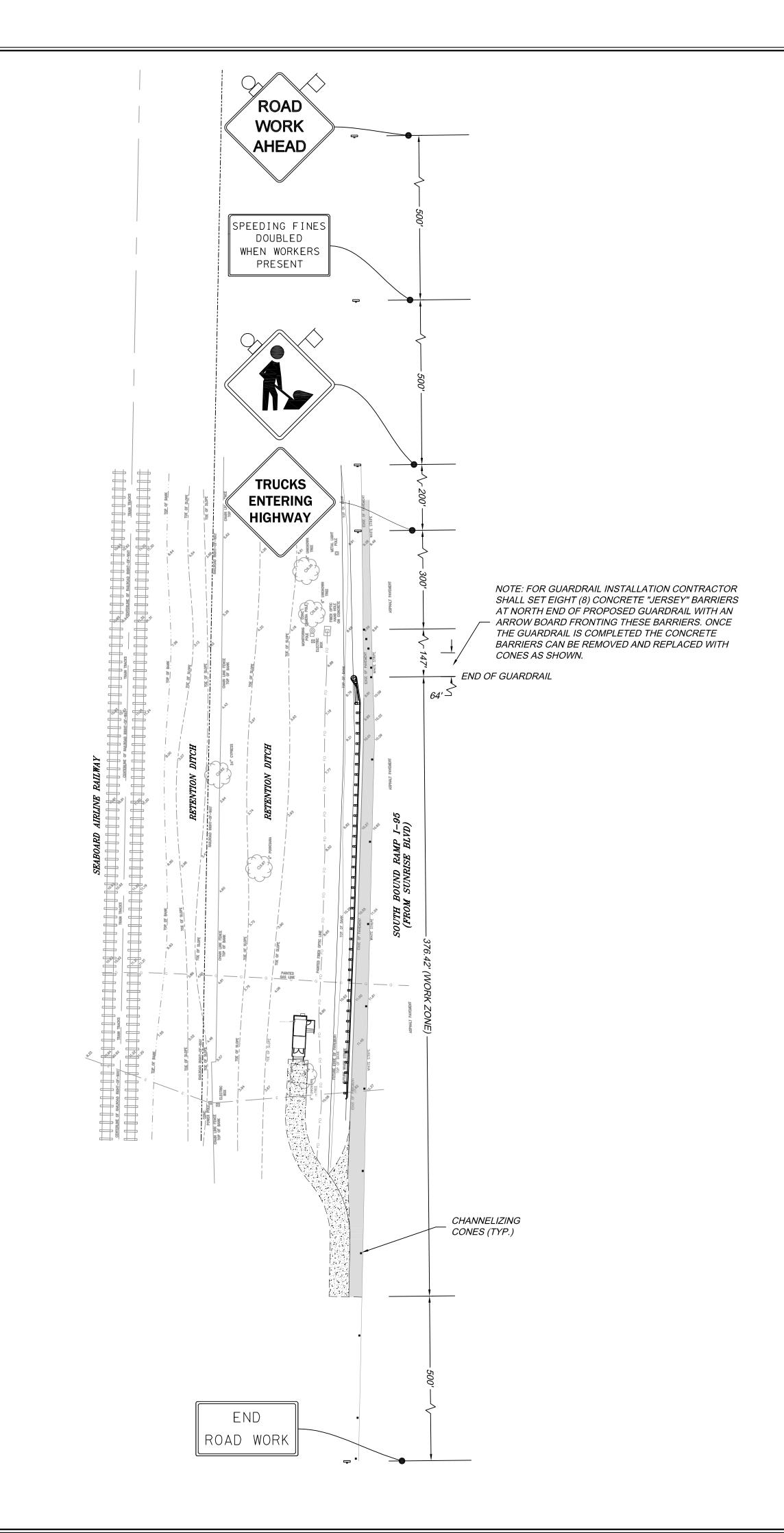
ROAD WORK AHEAD (WITH 18" X 18" FLAG AND TYPE B LIGHT): W20-1F, 4' X 4' SPEEDING FINES DOUBLED WHEN WORKERS PRESENT: MOT-13-06, 6' X 4'

"WORKER SYMBOL" (WITH 18" X 18" FLAG AND TYPE B LIGHT): W21-1, 4' X 4'

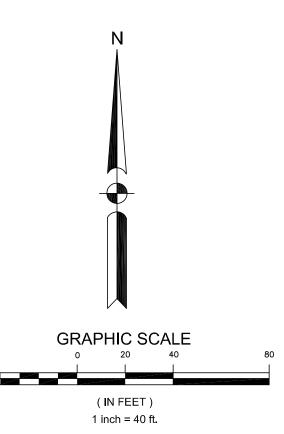
END ROAD WORK: G20-2, 4' X 2'

TRUCKS ENTERING HIGHWAY: MOT-6-06, 5' X 5'

NOTE: REFER TO FDOT INDEX 600 AND 17355 FOR FURTHER DETAILING OF SIGNS.







LEGEND

PROPOSED STABILIZED ENTRANCE



EXISTING 8' PAVED SHOULDER CHANNELIZING TRAFFIC CONES

(REFER TO FDOT INDEX 602 FOR PLACEMENT AND INTERVAL SPACING)

PROPOSED MOT SIGN

Exhibit 3

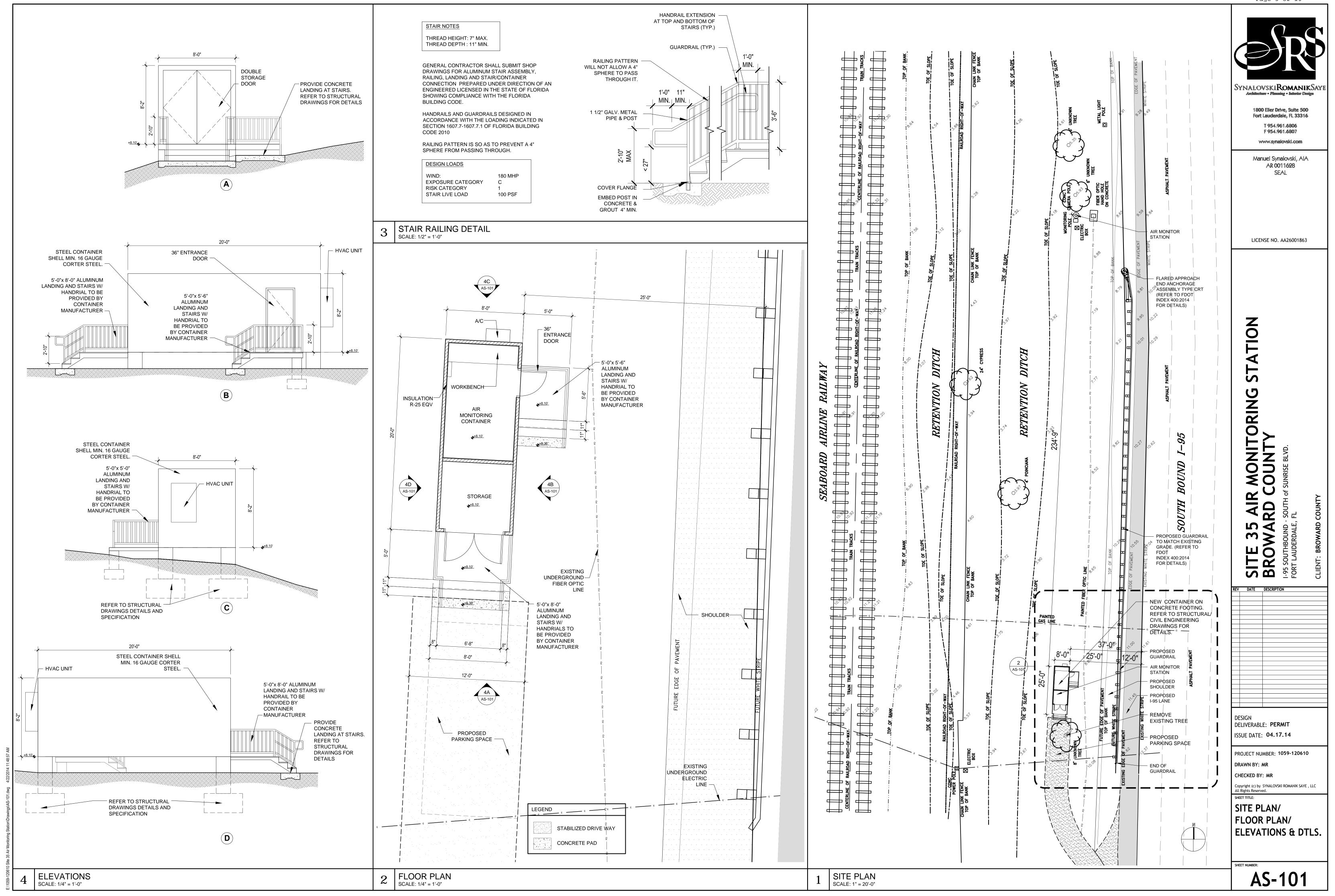
Page 4 of 10

(MOT)

RING STATION 35 - TRAFFIC (MOT) F AIR MONITORING S VTENANCE OF TRAF MAINTENANCE

PROJECT NO. 08400.10

SHEET NO. C-2



SYNALOVSKI ROMANIK SAYE Architecture - Planning - Interior Design

1800 Eller Drive, Suite 500 Fort Lauderdale, FL 33316 T 954.961.6806 F 954.961.6807

Manuel Synalovski, AIA AR 0011628 SEAL

www.synalovski.com

LICENSE NO. AA26001863

SITE 35 AIR MONITORING STATION
BROWARD COUNTY

	S	四	I-95 FOR
REV	DATE	DESCRIPT	ION
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		+	

DESIGN
DELIVERABLE: **PERMIT**ISSUE DATE: **04.17.14**

PROJECT NUMBER: 1059-120610

DRAWN BY: MR

CHECKED BY: MR

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SHEET TITLE:

AIR MONITORING
STATION
SPECIFICATIONS

AS-102

Note: All items Factory installed

20x'8'x8' Heavy duty steel shelter

External Area

20'x8'x8' container shelter, steel finished with beige paint, with dead bolt lock.

Anti-slip roof grating with brackets covering roof area

3 - 2" Roof penetrations with roof flange and cap

Galvanized Roof Hatch with stairs

Modular Aluminum roof railing with kick plate covering 8'x14' roof area

Exterior Light/Security Light

Lexan safety window in Door

4 - Waterproof external roof duplex outlet - installed

Heavy duty concrete pad shelter tie downs

Support system for Met Tower

Wall Mount HVAC for Shelter 2 Ton (24000 BTU), 5k W heating/cooling unit

Signal cable pass through waterproof box

Electrical: 200Amp service with 30 spaces, 200amp disconnect with breaker box,

Surface mounted electrical raceway, 10 duplex outlets

Single 20A 2 pole breaker with 20amp duplex outlet mounted in NEMA 3R outlet box

Stairs, landings and handrail as per sheet AS-101, detail 3

Internal AreaU

Work area (7.5'x7.5x14') with separate storage area (7.5'x7.5x6') - More work space if possible

Walls are pre-manufactured panel using expanded foam insulation with improved thermal properties

equivalent to R25 or better

Flooring - durable and seamless

6'x8' workbench - Located beneath and along side of HVAC to open floor space for equipment

2 door cabinet with internal shelf - installed under workbench

3' foot shelf in control room area

Standard Rack Frame Assembly (19"x30x70) with power strip, mounting angles and instrument rack mount kit

Auto switching thermostat for HVAC

Dedicated 20amp circuit and receptacle from instrument rack (ceiling installation) - required for all instrument racks

Two 4', 2 bulb florescent lights in office area

Storage switch light/ 15 amp duplex outlet

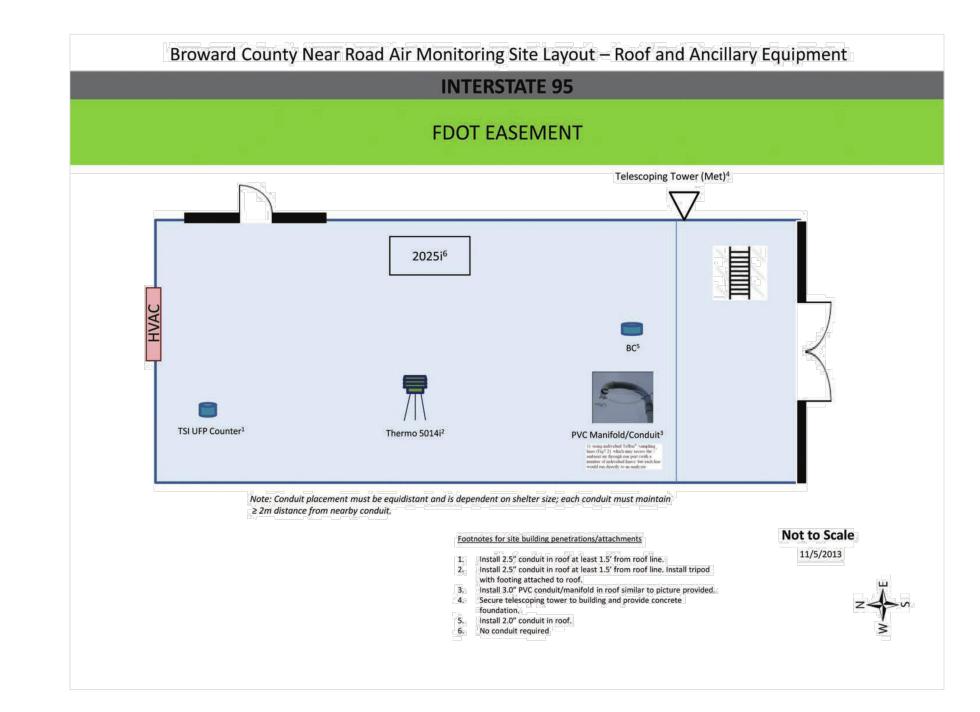
Insulated pump cabinet with shelves w/ 2 isolated 15 amp circuits

UPS 2200VA USB and power conditioner, Serial RM 2U 120 V factory installed in equipment rack.

Access to roof from storage area.

Internal ladder from roof access in storage area.

Vertical PVC Sampling Conduit designed for Air monitoring.



ı	Near-Road NO₂ Siting Criteria (per 40 CFR Part 58, Appendix E)
Horizontal spacing	According to 40 CFR Part 58 Appendix E: "As near as practicable to the outside nearest edge of the traffic lanes of the target road segment; but shall not be located at a distance greater than 50 meters, in the horizontal, from the outside nearest edge of the traffic lanes of the target road segment." This TAD recommends that the target distance for near-road NO ₂ monitor probes be within 20 meters of the target road whenever possible.
Vertical spacing	Microscale near-road NO ₂ monitoring sites are required to have sampler inlets between 2 and 7 meters above ground level.
Spacing from supporting structures	The probe must be at least 1 meter vertically or horizontally away from any supporting structure, walls, parapets, penthouses, etc., and away from dusty or dirty areas.
Spacing from obstructions	For near-road NO ₂ monitoring stations, the monitor probe shall have an unobstructed air flow, where no obstacles exist at or above the height of the monitor probe, or between the monitor probe and the outside nearest edge of the traffic lanes of the target road segment.

NOT USED

GENERAL NOTES:

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, OPENINGS, FLOOR FINISHES, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. IF A CONFLICT EXISTS, CONTACT THE
- ENGINEER BEFORE PROCEEDING.

 2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- 3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF
- NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS.

 4. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY CALLED OUT WHETHER EVERY LOCATION IS SPECIFIED OR NOT. CONTACT THE ENGINEER WITH ANY QUESTIONS OF APPLICABILITY.

DESIGN CRITERIA:

- 1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2010 EDITION OF THE FLORIDA BUILDING CODE WITH ITS APPLICABLE SUPPLEMENTS.
- 2. CONSTRUCTION IS TO COMPLY WITH THE GOVERNING BUILDING CODE AND ALL FEDERAL, STATE, AND LOCAL BUILDING REQUIREMENTS.
- 3. WIND LOADS:
- WIND LOADS
 GOVERNING CODE ASCE 7-10
 DESIGN WIND SPEED V=156 MPH
 RISK CATEGORY I

SHALLOW FOUNDATIONS:

EXPOSURE

- 1. SHALLOW FOUNDATIONS, INCLUDING SITE PREPARATION, SHALL BE INSTALLED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES CONTAINED IN THE GEOTECHNICAL REPORT NO. 13–2289, PREPARED BY FLORIDA ENGINEERING AND TESTING, TITLED REPORT OF GEOTECHNICAL EXPLORATION, AND DATED AUGUST 12, 2013.
- 2. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 psf on compacted fill as prepared by the geotechnical report.

 3. VERIFICATION OF SUB-GRADE PREPARATION SHALL BE MADE BY AN INDEPENDENT.
- 3. VERIFICATION OF SUB-GRADE PREPARATION SHALL BE MADE BY AN INDEPENDENT FLORIDA LICENSED GEOTECHNICAL ENGINEER EMPLOYED BY THE OWNER AND APPROVED BY THE ENGINEER. LOCATIONS FAILING TO MEET THE REQUIREMENTS SHALL BE RE-COMPACTED AND RETESTED AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE INDEPENDENT GEOTECHNICAL CONSULTANT.
- 4. THE GEOTECHNICAL ENGINEER RESPONSIBLE FOR FIELD TESTING OF SUBGRADE PREPARATION SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING THAT THE SPECIFIED BEARING CAPACITY IS AVAILABLE AT ALL FOUNDATIONS.

SLAB-ON-GRADE:

- REFER TO GEOTECHNICAL REPORT FOR SUB-GRADE PREPARATION BELOW SLAB.
 FOR INTERIOR SLABS, PLACE 10 MIL POLYETHYLENE SHEET BETWEEN THE SOIL AND THE BOTTOM OF THE SLAB ON WELL COMPACTED TERMITE TREATED FILL. DO NOT USE SHEETING BELOW EXTERIOR SLABS.
- 3. USE 6" THICK SLAB-ON-GRADE REINFORCED WITH STEEL REBAR INDICATED ON THE DRAWINGS SUPPORTED BY CHAIRS AT THE MID DEPTH OF SLAB, UNLESS OTHERWISE NOTED ON THE PLANS.
- 4. PROVIDE CRACK CONTROL JOINTS AT A MAXIMUM OF 15 FEET THAT LIMITS THE AREA BETWEEN JOINTS TO 225 SQUARE FEET. THE AREA BOUNDED BY JOINTS SHALL BE AS SQUARE AS POSSIBLE WITH THE RATIO OF LONG SIDE TO SHORT SIDE NOT TO EXCEED 1.5. ADD CRACK CONTROL JOINTS AT RE-ENTRANT
- CORNERS.

 5. SEE ARCHITECTURAL DRAWINGS FOR SLAB-ON-GRADE DEPRESSIONS.

REINFORCED CONCRETE:

- 1. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND
- SPECIFICATIONS.

 2. PROVIDE STRUCTURAL CONCRETE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

ELEMENT	STRENGTH	MAX. W/C RATIO (WT)
SLAB-ON-GRADE	3,000 psi	0.60
FOOTINGS	3,000 psi	0.60
PIERS	3,000 psi	0.60

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, U.O.N.
 SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM
- C33 FOR COARSE AGGREGATE.

 5. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK—UP
- DATA AS PER CHAPTER 5 OF ACI 318.

 6. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. IF ACCEPTED, PEA ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.
- 7. ADMIXTURES WITH CALCIUM CHLORIDES AS AN ADDED INGREDIENT SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
- 8. ALL CONCRETE SHALL USE A CORROSION INHIBITOR IN THE CONCRETE MIX.

 9. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCAPDED.
- 10. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.
- 11. PROVIDE ASTM A615 GRADE 60 DEFORMED BAR REINFORCING STEEL FREE FROM OIL, SCALE, AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
- 12. REINFORCING SHALL BE ACCURATELY PLACED AND RIGIDLY SUPPORTED MAINTAINING THE FOLLOW CONCRETE COVER:
- ELEMENT
 BOTTOM
 TOP
 SIDES

 SLABS ON GRADE
 2" 1-1/2" 2"

 FOOTINGS
 3" 2" 3"

 PIERS
 - 1-1/2"
- 13. PROVIDE COLD DRAWN ELECTRICALLY—WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A185, FREE FROM OIL, SCALE, AND RUST WHERE INDICATED ON PLANS.

- MINIMUM LAP SHALL BE ONE SPACE PLUS 2 INCHES. USE WIRE MESH SHEETS.
- USE OF ROLLED WIRE MESH IS NOT PERMITTED.

 14. CONTRACTOR SHALL SUBMIT SLAB DRAWINGS FOR ANY CONCENTRATION OF PIPES,
 CONDUIT, OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR
 TO CONCRETE POURS.
- 15. WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO 1" IN DIAMETER MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT THREE DIAMETERS CENTER—TO—CENTER. LARGER CONDUIT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONDUITS SHALL BE LOCATED BETWEEN TOP AND BOTTOM LAYERS OF REINFORCEMENTS IN SLABS. IN NO CASE THE
- 16.PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF CONCRETE POURS. ANY DEVIATIONS FROM CONSTRUCTION JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE

REINFORCING BARS SHALL BE MOVED TO ACCOMMODATE THE CONDUITS.

CONCRETE TESTING:

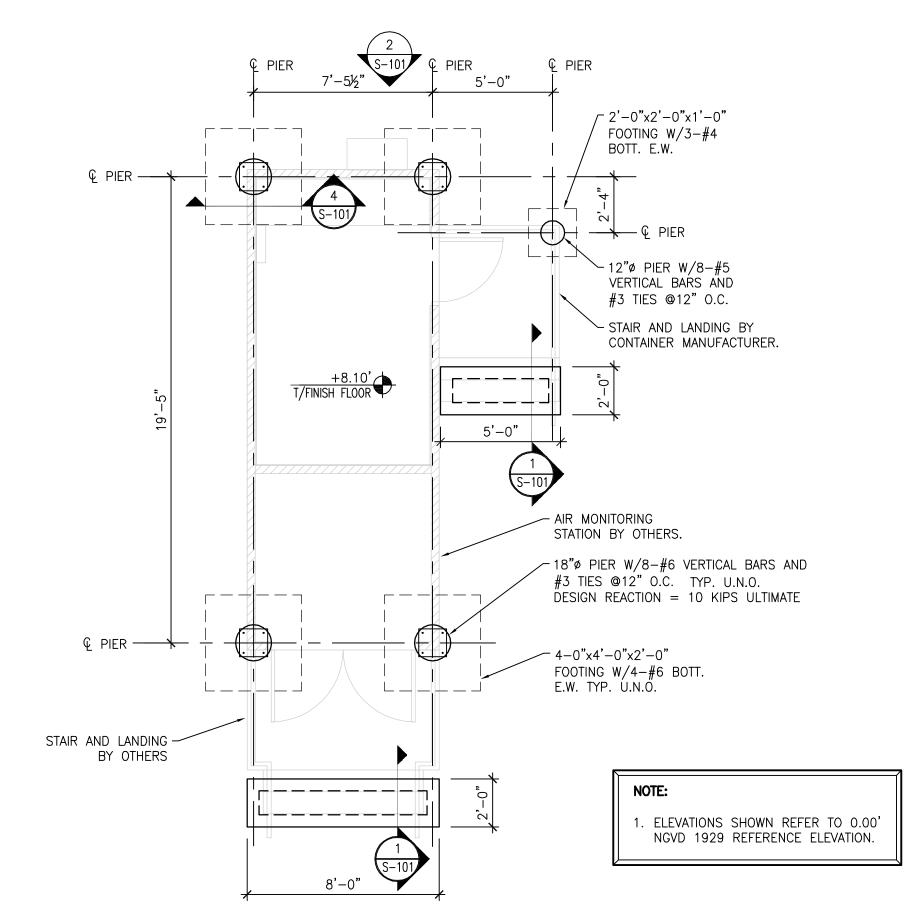
ENGINEER IN WRITING.

- 1. AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
- A.) ASTM C-143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND
- CEMENT CONCRETE". MAXIMUM SLUMP SHALL BE 4 INCHES +/- 1 INCH.

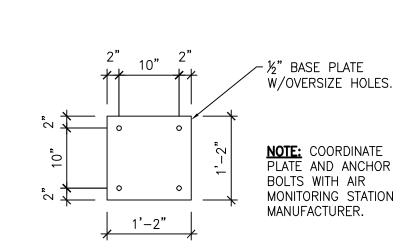
 B.) ASTM C-39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST
 - 1 AT 3 DAYS 1 AT 7 DAYS 2 AT 28 DAYS

AGE AS FOLLOWS:

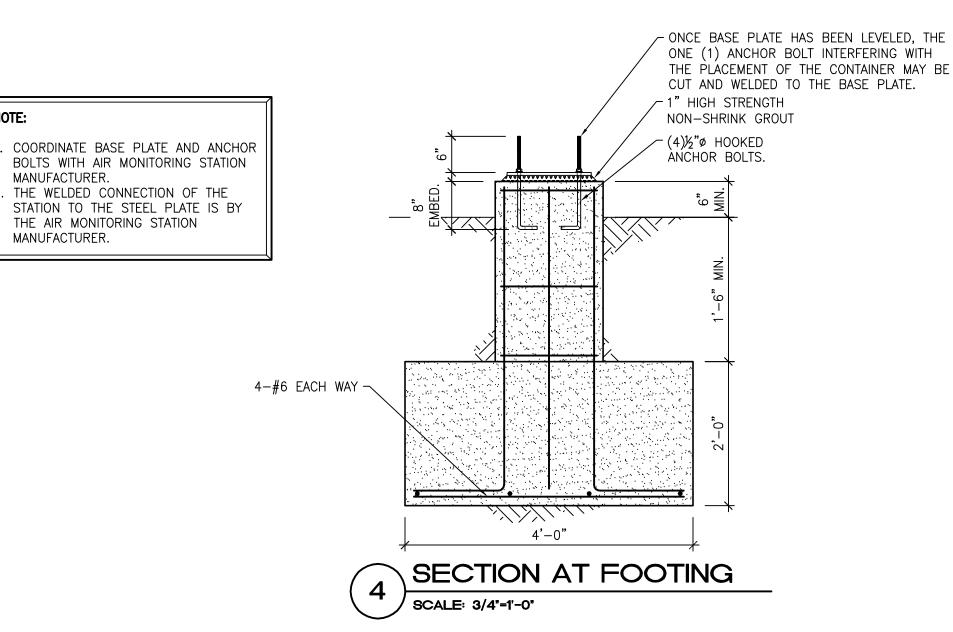
- ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.
- 2. TEST REPORTS WITH ENGINEER'S SEAL AND SIGNATURE SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE. TEST REPORT SHALL INCLUDE MIX DESIGN ID., BATCHING TIME AND DATE, STRUCTURAL ELEMENT WHERE CONCRETE WAS USED, CONCRETE MIX TEMPERATURE, AMBIENT TEMPERATURE, SLUMP, AIR CONTENT, CONCRETE DENSITY AND OTHER PERTINENT INFORMATION.

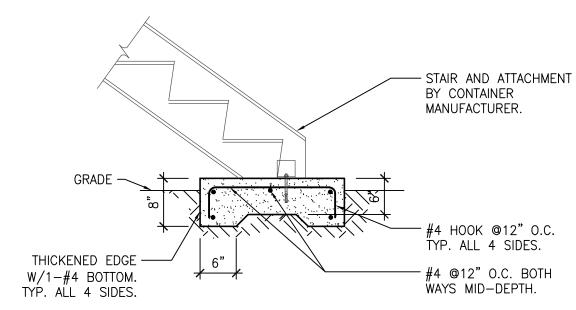






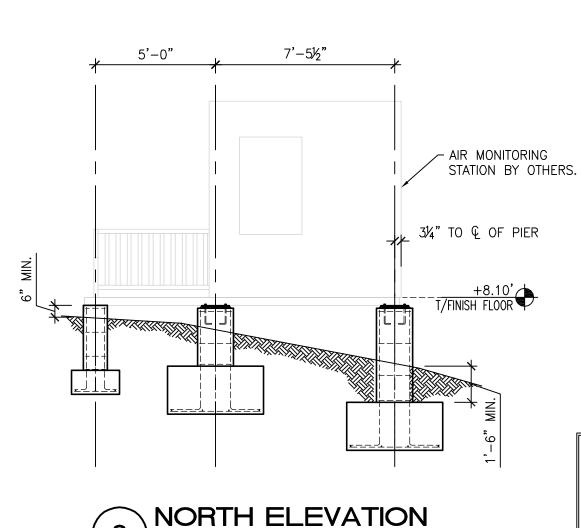






SECTION AT STAIR BASE

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



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

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IG STATION

ITE 35 AIR MONITORIN(
ROWARD COUNTY
SOUTHBOUND - SOUTH OF SUNRISE BLVD.
RT LAUDERDALE, FL

REV DATE DESCRIPTION

DESIGN
DELIVERABLE:
ISSUE DATE: 04.17.14

S B

PROJECT NUMBER: 1059-120610

DRAWN BY: EE

CHECKED BY: DW

CHECKED BY: DW

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SHEET TITLE:

FOUNDATION PLAN,
DETAILS AND NOTES

S-101

GENERAL ELECTRICAL NOTES

(GENERAL NOTES ARE PROVIDED AS A BASIC DESCRIPTION OF THE EXTENT AND QUALITY EXPECTED IN THIS PROJECT. IF A CONFLICT EXISTS BETWEEN THESE GENERAL NOTES AND THE REMAINDER OF THE CONTRACT DOCUMENTS THE SPECIFICATIONS, PLANS AND DETAILS WILL GOVERN.)

- CODE, LATEST EDITION (NEC) AND THE LATEST EDITIONS OF ALL LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION.
- AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND INTENDED USE, OF THE FOLLOWING:
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ILLUMINATING ENGINEERS SOCIETY (IES)
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATES (NEMA) NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (U.L.), WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
- CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- 4. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN OR NOTED ON THE DRAWINGS,
- PRIOR TO SUBMITTING BID. 5. NOT USED.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE
- 7. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST-CLASS QUALITY OF WORK MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE
- 9. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND QUALITY OF WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- 10. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE FOR ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITIONS, ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, ETC. CAUSED DURING THE PERFORMANCE OF WORK.
- 12. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE OR DELAYS AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- FOR ELECTRIC POWER SYSTEM, COORDINATE POWER SERVICE WITH POWER
- A. VERIFY LOCATION OF POWER SERVICE TERMINATION WITH POWER COMPANY, PRIOR TO SUBMITTING BID. CONTRACTOR TO VERIFY AVAILABLE SERVICE VOLTAGE AND PHASES WITH POWER COMPANY PRIOR TO BID AND PROVIDE BID ALLOWANCE FOR ALTERNATES.
- B. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION AND REMOVE SAME AT COMPLETION OF PROJECT.
- 14. CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE
- END OF EACH WORKING DAY. 15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING COSTS.
- 16. COORDINATE ALL ELECTRICAL SITE WORK WITH ALL OTHER TRADES CONTRACTORS. 17. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCE ORDERING OF LONG LEAD ITEMS, AS TO NOT INTEFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME. THE CONTRACTOR SHALL NOT ORDER ANY ITEMS UNTIL APPROVED SHOP DRAWINGS
- ARE RETURNED TO HIM. 18. ELECTRICAL CONTRACTOR SHALL SUBMIT (6 COPIES) EQUIPMENT LAYOUT OF ALL ELECTRICAL SPACES, ROOMS, ETC., TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. LAYOUT SHALL CONSIST OF PLAN VIEWS (SCALED AS REQUIRED) AND ELEVATIONS (DIMENSIONED) FOR EACH SUCH SPACE, ROOM, ETC.
- 19. ALL BALLASTS SHALL HAVE MINIMUM POWER FACTOR OF 0.90. ALL BALLASTS FOR METAL HALIDE AND HIGH PRESSURE SODIUM FIXTURES SHALL BE CONSTANT WATTAGE TYPE WITH $\pm 1.5\%$ LAMP WATTS FOR $\pm 1.5\%$ NOMINAL LINE VOLTAGE VARIATION.
- CONTRACTOR SHALL SUBMIT AT ONE TIME, SIX (6) SETS OF LOOSE-LEAF BOUND BOOKS, INDEXED WITH ALL PRODUCTS, MATERIALS, LIGHTING FIXTURES, LAMPS, WIRING DEVICES, SWITCHGEAR, ETC. CLEARLY HIGHLIGHTING ALL EQUIPMENT QUANTITIES AND DETAILS. ALL EQUIPMENT SHALL BE AS SPECIFIED ON PLANS: THE RESPONSIBILITY TO ACCEPT OR REJECT ANY PROPOSED SUBSTITUTION REMAINS WITH THE ARCHITECT. THE CONTRACTOR MAY AT HIS JUDGMENT USE ANY ARTICLE. DEVICE, PRODUCT, OR MATERIAL WHICH IN THE JUDGMENT OF THE ARCHITECT EXPRESSED IN WRITING ARE EQUAL TO THAT SPECIFIED.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN EXCEPT WHERE OTHERWISE REQUIRED BY U.L. OR CODES. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. ALUMINUM CONDUCTORS ARE NOT
- 22. ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL (GRS) EXCEPT THAT: (a) PVC CONDUITS MAY BE USED UNDERGROUND PROVIDED ELBOWS AND RISERS ARE GALVENIZED RIGID STEEL OR SCHEDULE 80 PVC, WHERE SUBJECT TO PHYSICAL DAMAGE (b) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP OR CORROSIVE CONDITIONS, (c) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED, (d) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS ONLY, (e) MC CABLE WITH DEDICATED GREEN GROUNDING CONDUCTOR WHERE PERMITTED. ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC
- 23. FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WARNING TAPE WHICH SAYS "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRIC CONDUITS. WHERE CONDUITS PASS UNDERNEATH PAVED AREAS, THEY SHALL BE PVC. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED O MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY SHALL BE
- 24. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED.
- WIREWAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED
- 26. WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER
- HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND

- THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL 28. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC. SHALL BE NEW. 29. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC OR SOLID STATE AS REQUIRED BY SPECIFICATION). TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
 - 30. ALL FUSES SHALL BE CURRENT LIMITING, PER U.L., RATED 600V., UON. A. NON-TIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS. B. TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS.
 - ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC REQUIREMENTS TO ACCOMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES U.O.N. SWITCHES SHALL BE HORSEPOWER RATED FOR MAX. HORSEPOWER, HEAVY DUTY TYPE.
 - 32. CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO
 - FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR AIR CONDITIONING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED. PROVIDE ALL CONTROL WIRING FOR A/C SENSORING AND CONTROL UNITS, COORDINATE WITH A/C CONTRACTOR FOR WIRING DIAGRAMS AND EXACT MOUNTING LOCATIONS.
 - 34. ALL ELECTRICAL EQUIPMENT SHALL BE RAINTIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT. 35. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE
 - ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FORM A GROUNDING ELECTRODE SYSTEM AS PER NEC 250-50.

ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.

- 37. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS. PROPER PLASTER RINGS SHALL BE USED WITH OUTLET BOXES. PROPER COORDINATION BETWEEN ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR FOR PLASTER RING INITIATION WILL BE REQUIRED. NO "GOOF" RINGS SHALL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED.
- WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED MITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALI
- A. ALL ELECTRICAL BOXES SHALL BE METALLIC B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE. BOX OPENING SHALL NOT EXCEED 10322.56 SQUARE MM (16SQUARE INCHES). D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
- PROVIDE A WALL AROUND OUTLETS LARGER THAT 10322.56 SQUARE MM (16 SQUARE INCHES). THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED. F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 64516 SQUARE MM (100 SQUARE INCHES) PER 9.29 SQUARE METERS (100 SQUARE FEET). G. OUTLET BOXÈS LOCATED ON OPPÓSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 609.6MM (24 INCHES).
- I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 3.175MM (1/8 INCH) BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING. SMOKE DETECTORS SHALL BE PROVIDED NO CLOSER THAN 36" FROM SUPPLY AIR
- PROVIDE U.L. LISTED COMPOUND APPLIED TO BACK OF "BACK TO BACK" BOXES IN RATED

H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.

- WALLS WHERE THE BOXES ARE LESS THAN 609.6MM (24 INCHES) APART MEASURED
- PROVIDE LAMPS WITH FIXTURES, VERIFY LAMP TYPE WITH MANUFACTURER.
- ALL OPENINGS FOR LIGHT FIXTURES IN CEILINGS SHALL BE PROTECTED IN A MANNER (PER ALL GOVERNING CODES) THAT WILL PROVIDE THE SAME RATING AS THE CEILING. (THIS APPLIES TO ALL FIRE RATED CEILINGS).
- PROVIDE A FUSE HOLDER AND FUSE (BUSSMAN HEB AND FNQ OR EQUAL), IN THE PRIMARY SIDE OF EACH UNGROUNDED CONDUCTOR FOR ALL BALLASTS AT THE HAND HOLE OF EACH EXTERIOR POLE MOUNTED LIGHTING FIXTURE OR J-BOX FOR WALL OR GROUND MOUNTED FIXTURE.
- PROVIDE WIND LOAD RATED LIGHT POLES WITH 145 MPH MINIMUM WIND SPEED (ASCE 7), EXPOSURE C WITH IMPORTANCE FACTOR OF 1.0. AND PROVIDE PHOTOMETRICS WITH ALL FIXTURE SUBMITTALS. CONTRACTOR TO VERIFY VOLTAGES OF ALL LIGHT FIXTURES PRIOR TO
- 45. FOR EMERGENCY EXIT SIGNS AND EMERGENCY BATTERY PACKS MAKE CONNECTION AHEAD OF
- ALL SWITCHES AND CONTROLS. 46. CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY OF EACH PANELBOARD. HAND WRITTEN DIRECTORY IS NOT ACCEPTABLE, EXCEPT SPARE AND SPACES SHALL BE HANDWRITTEN IN PENCIL.
- 47. PROVIDE A 4" STEEL REINFORCED CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR
- A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH B. 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, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR
- ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408. METER CANS, HUBS, & LUGS FOR SAME ARE TO BE FURNISHED & INSTALLED BY CONTRACTOR. CONTRACTOR TO VERIFY SPECIFIC TYPE OF METER CAN TO BE USED WITH
- F.P.L. PRIOR TO BID. A. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BLDG. STATING THAT THE SERVICE DISCONNECTS ARE LOCATED INSIDE. B. SIGNS SHALL BE PLACED AT THE MAIN DISCONNECT EQUIPMENT INDICATING TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES.
- THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND EMERGENCY ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME BUILDING SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN NUMBER 6.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- 53. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT
- FOR TELELPHONE SYSTEMS: A. PROVIDE GROUNDING FOR ALL TELEPHONE OUTLETS AND EQUIPMENT PER REQUIREMENTS OF THE TELEPHONE COMPANY B. COORDINATE INSTALLATION OF ALL TELEPHONE OUTLETS, RACEWAYS, ENCLOSURES IND BACKBOARDS WITH TELE. CO. . VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY. PROVIDE SERVICE CONDUIT TO BLDG. FROM SERVICE POINT PER TELCO. INSTRUCTIONS, INCLUCE ALL ASSOCIATED COSTS IN BID. D. MARK TERMINATIONS OF TELEPHONE CONDUIT AS DIRECTED BY THE TELEPHONE
- . VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY PRIOR TO SUBMITTING BID. INCLUCE ALL ASSOCIATED COSTS IN BID. F. USE EXTERIOR GRADE 3/4" PLYWOOD BACKBOARDS FOR MOUNTING TELEPHONE EQUIPMENT AND TERMINAL STRIPS. PAINT BOARD ON ALL SIDES AND EDGES WITH TWO COATS OF FLAT BLACK FIRE RETARDANT PAINT.

ELECTRICAL SYMBOL LEGEND

	ELECTRICAL SYMBOL LEGEND
SYMBOL	DESCRIPTION
	LIGHTING (REFER TO LIGHTING FIXTURE SCHEDULE)
A ()	LIGHT FIXTURE DESIGNATION. LIGHTING FIXTURE, SURFACE MOUNTED
\bigcap \bigcirc	LIGHTING FIXTURE (HID, FLUORESCENT OR INCANDESCENT), RECESSED MTD.
$\bigcirc_{\mathbf{Z}}$	LIGHTING FIXTURE, WALL MOUNTED EXIT LIGHT FIXTURE. DIRECTION ARROWS AS SHOWN
H⊗	WALL MOUNTED EXIT LIGHT FIXTURE (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)
	2 X 2 FLUORESCENT LIGHT FIXTURE
	2 X 4 FLUORESCENT LIGHT FIXTURE
	DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK.
	1 X 4 FLUORESCENT LIGHT FIXTURE DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO
	EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK. FLUORESCENT WALL MOUNTED FIXTURE WITH WALL OUTLET BOX
	FLUORESCENT STRIP FIXTURE
⊢⊘ ⊢	DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK.
	EXTERIOR LIGHT FIXTURE WITH ARMS AS SHOWN ON DRAWINGS EMERGENCY BATTERY WALL PACK WITH TWIN HEADS
\$	TOGGLE SWITCH 120/277V. 20 AMP.
\$3	TOGGLE SWITCH 120/277V. 20 AMP. (M.H. = 48" A.F.F.) , 3-WAY
\$4	TOGGLE SWITCH 120/277V. 20 AMP., (M.H. = 48" A.F.F.), 4-WAY
\$ _K	TOGGLE SWITCH 120/277V. 20 AMP. KEYSWITCH, (M.H. = 48" A.F.F.) FAN. SWITCH 120/277V. 20 AMP. (HORSEDOWER PATER)
\$ _T	FAN SWITCH 120/277V. 20 AMP, (HORSEPOWER RATED) 60-MINUTE ROTATABLE TIMER SWITCH (M.H. = 48" A.F.F.) TOGGLE SWITCH 120/277V. 20 AMP., WITH PILOT LIGHT,
\$ _P	TOGGLE SWITCH 120/277V. 20 AMP., WITH PILOT LIGHT, (M.H.=48"A.F.F.) TOGGLE SWITCH 120/277V. 20 AMP. EXPLOSION—PROOF,
\$ _{EX}	(M.H.=48"A.F.F.)
\$s &	SPEED SWITCH 120/277V. 20 AMP. U.O.N. ,(M.H. = 48" A.F.F.)
\$ _M \$ _D	SINGLE PHASE MANUAL MOTOR STARTER, (M.H.=48" A.F.F.) DIMMER SWITCH 120/277V. 20 AMP., (M.H.=48" A.F.F.) (1500
\$30	WATTS UNLESS OTHERWISE INDICATED) THREE—WAY DIMMER SWITCH (48" A.F.F.)
\$.	SINGLE POLE SWITCH (48" A.F.F.) (SUBSCRIPT INDICATES ITEM CONTROLLED)
$\Psi_{a,b}$	PANIC SWITCH, MUSHROOM TYPE, (M.H.=48" A.F.F.) WALL MOUNTED - OCCUPANCY SENSOR SWITCH,(M.H.=48"A.F.F.) MFGR./MODEL#
_	(SENSOR SWITCH/#WSD-PDT-1P(2P) IF NEEDED) a,b INDICATES SWITCHING CEILING MOUNTED OCCUPANCY SENSOR — LIGHTING CIRCUIT CONTROLLER.
<u>(S)</u>	MFGR./MODEL# (SENSOR SWITCH/#CM-PDT) OCCUPANCY SENSOR NOTE:
	CONTRACTOR SHALL PROVIDE ALL SWITCHPACKS AND CONDUCTORS AS REQUIRED FOR LAYOUTS AND CONTROLS SHOWN ON PLANS.
	BASIC MATERIALS
(DUPLEX RECEPTACLE, 20 AMP., 125V., (M.H.=18"A.F.F.) FLOOR OUTLET BOX AND DUPLEX RECEPTACLE 20 AMP., 125V.,
	WITH APPROPRIATE FLANGE. DUPLEX RECEPTACLE, 20 AMP., 125V., TOP HALF SWITCHED, M.H.
	= 18" A.F.F. UNLESS OTHERWISE NOTED DUPLEX RECEPTACLE, 20 AMP., 125V., ISOLATED GROUND AND
Φ	SURGE PROTECTED, (M.H.=18"A.F.F.) SINGLE RECEPTACLE, 20 AMP., 125V., COORDINATE M.H. WITH
ewc Φ	EQUIPMENT. SIMPLEX RECEPTACLE (16" A.F.F.) (EWC DENOTES ELECTRIC WATER
EWC T	COOLER. COORDINATE WITH EWC INSTALLER FOR MOUNTING HEIGHT)
₩ _	TWO DUPLEX RECEPTACLES WITH COMMON COVER 20A., 125V.,(18" A.F.F.)
P	SPECIAL PURPOSE OUTLET e.g. RANGE OUTLET, COORD. W/ EQUIPT.
 •	DUPLEX RECEPTACLE, 20 AMP., 125V., MOUNT ABOVE COUNTER @42"AFF. GECL DUPLEY RECEPTACLE 20 AMP. 125V. (MH - 18"A F.F.)
╙	GFCI DUPLEX RECEPTACLE, 20 AMP., 125V., (M.H.=18"A.F.F.) GFCI DUPLEX RECEPTACLE, 20 AMP., 125V., MTD. ABOVE COUNTER
# ©	(VERIFY HEGHT) 30 AMP., 125V., TWIST LOCK RECEPTACLE FOR FLOOR POLISHING
.	MACHINE. JUNCTION BOX, MOUNTING AS SHOWN
○	ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER MAGNETIC MOTOR STARTER OR CONTACTOR,
	COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED
	DISCONNECT SWITCH, SIZE AS NOTED
	———# OF POLES ENCLOSURE TYPE: ———— AMP_RATING/FRAME NEMA_3R— FOR EXTERIOR
☐ 3 ¹⁰⁰ (, NEMA 1— FOR INTERIOR
_ e□ _	——FUSE SIZE (* DENOTES AS PER MANUFACTURER) LIGHTING CONTROL TIME CLOCK
	PHOTOCELL, MOUNTED ON ROOF FACING NORTH SHUNT—TRIP BUTTON — FLUSH MOUNTED UNLESS OTHERWISE
	NOTED PLUG-IN STRIP WITH RECEPTACLES, 18" O.C. UNLESS OTHERWISE
	INDICATED
·I 	CABLE TRAY GROUND OR GROUND ROD AS NOTED
	CONDUIT TURNING UP CONDUIT TURNING DOWN
	CONDUIT STUB
 ∼	CONDUIT CONTINUED
	SERVICE AND DISTRIBUTION FLECTRICAL PRANCE CARRES PARTS PRANCE AND ARREST COSTS
	ELECTRICAL BRANCH CIRCUIT PANELBOARD, RECESS MOUNTED. (SEE PANEL SCHEDULE FOR DETAILS)
	ELECTRICAL BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	(SEE PANEL SCHEDULE FOR DETAILS)
	TRANSFORMER, SIZE AS NOTED
	AUTOMATIC TRANSFER SWITCH EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT OR WORK OF THIS PROJECT

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

CVCTEM CVMDOL LECEND

		SYSTEM SYMBOL LEGEND
\int	SYMBOL	DESCRIPTION
	• KP C B	CALL BACK PUSH BUTTON CIRCUIT BREAKER, TYPE AND SIZE AS PER DRAWINGS. SECURITY SYSTEM KEYPAD CLOCK BELL
		AIR HANDLING UNIT SHUT-DOWN RELAY POWER ON INDICATOR WITH KEYED RESET FIRE ALARM/DETECTION SYSTEM
	□, 110 co	FIRE ALARM MANUAL PULL STATION 48" A.F.F. COMBINATION AUDIBLE/VISUAL SIGNALLING UNIT — FIRE ALARM HORN (SREAKER)/ FLASHING STROBE LIGHT (WALL MTD.) MOUNT AT 80" A.F.F. OR 6" BELOW CEILING WHICHEVER IS LOWER. WP DENOTES WEATHERPROOF ENCLOSURE VISUAL SIGNALING UNIT — FLASHING STROBE LIGHT ONLY (80" TO BOTTOM) (NO AUDIO DEVICE) PHOTO—ELECTRIC SMOKE DETECTOR E = ELEVATOR I = IONIZATION
	© _{DI}	R = RETURN S = SUPPLY TYPICAL 120V. RESIDENTIAL TYPE SMOKE DETECTOR WITH SOUNDER BASE AND BATTERY BACK-UP. FIRE ALARM SPEAKER (WALL OR CEILING MOUNTED)
	⊕ _{R/F}	F FIREFIGHTER'S PHONE JACK HEAT DETECTOR, FIXED TEMPERATURE (135°) UNLESS OTHERWISE INDICATED FIRE ALARM FLOW SWITCH (FURNISHED BY SPRINKLER CONTRACTOR) FIRE ALARM TAMPER SWITCH (FURNISHED BY SPRINKLER CONTRACTOR)
	MD M FACP	MOTION SENSOR — CEILING MOUNTED MONITOR MODULE
¥.	FATC - EWL	FIRE ALARM TERMINAL CABINET FIREFIGHTER'S ELEVATOR WARNING LIGHT
; ; ;	(S)	TELEPHONE/COMPUTER RACEWAY SYSTEM TELEPHONE/COMPUTER TERMINAL BOARD "TTB" INTERCOM SYSTEM SPEAKER COMPUTER/TELEPHONE OUTLET WITH (2) 8—CONDUCTOR RJ—45 JACKS IN A SINGLE—GANG BOX MOUNTED AT 18" A.F.F. C = ABOVE THE COUNTER P = PUBLIC PAY (48" A.F.F.)
	♥ □ □	W = WALL MOUNTED (18" A.F.F.) TELEPHONE PORT FLOOR MOUNTED CALL BACK PUSH BUTTON TELEVISION SIGNAL WALL OUTLET (M.H. = 18" A.F.F.) WITH 8-CONDUCTOR RJ-45 JACK AND F-TYPE RG6
	-₽	COAX JACK IN SINGLE-GANG BOX. TELEVISION SIGNAL WALL OUTLET F-TYPE RG6 COAX JACK & COMPUTER/TELEPHONE OUTLET (2) 8-CONDUCTOR RJ-45 JACKS IN SINGLE-GANG BOX. (18" A.F.F.)
	B	SECURITY SYSTEM SECURITY SYSTEM CAMERA, PROVIDE POWER AND SIGNAL CONNECTION, SEE SPECS. SECURITY SYSTEM MONITORS AND RECORDERS, SEE SPECS.
		SECURITY SYSTEM CARD READER, SEE SPECS. SECURITY SYSTEM CABLES IN CONDUIT, SEE SPECS.
	• s	SECURITY SYSTEM JUNCTION BOX AT ACCESSIBLE LOCATION. SECURITY SYSTEM HIDDEN PUSH BUTTON FOR DOOR STRIKE RELEASE, COORDINATE INSTALLATION WITH FURNITURE OR EQUIPMENT. SECURITY SYSTEM SPEAKER WITH INTERGRAL MICROPHONE
	КР	SECURITY SYSTEM KNOX BOX
	NOTE: SOME S	SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT. ABBREVIATIONS
	A.F. A	BOVE COUNTER E/R EXISTING RELOCATED RC FAULT G.F.I. GROUND FAULT INTERRUPTER BOVE FINISHED FLOOR L.C. LOCKABLE COVER
	A.S.W. A	BOVE SHOW WINDOW RCPT. M.H. ELOW FINISHED CEILING ELOW FINISHED GRADE N.F. MOUNTING HEIGHT NEW DEVICE NON FUSED
	CL C	IRCUIT BREAKER ENTER LINE EDICATED FOR COMPUTER, T.S. ROVIDE DEDICATED ROUND AND NEUTRAL EDICATED CROUND AND NEUTRAL WP WEATHER PROOF FINCLOSURE

PROVIDE EMERGENCY

BATTERY PACK W/FIXTURE CONNECT AHEAD OF ALL

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

ISOLATED GROUND (ORANGE DEVICE)

SWITCHES.

WEATHER PROOF ENCLOSURE

XFMR TRANSFORMER.

DETAIL

SHEET NUMBER

		ELECTRICAL INDEX		
		<u>DRAWING</u>	\triangle	
1	E-100	ELECTRICAL INDEX, SYMBOL LEGEND AND NOTES.		
2	E-200	PARTIAL ELECTRICAL SITE PLAN		
3	E-201	FLOOR PLANS, RISER DIAGRAMS AND SCHEDULES		

SHOP DRAWING REQUIREMENTS

- CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ONE TIME AND MUST COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF NOTICE TO PROCEED.
- ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FOR USE. IF NOT, THE SUBMITTAL SHALL BE REJECTED.
- SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES LISTED IN THE CONSTRUCTION DOCUMENTS. PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER, ARCHITECT AND OWNER (14) DAYS PRIOR TO BID DATE.
- THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR PROCEEDING PRIOR TO SHOP DRAWINGS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIANCE TO THE CONSTRUCTION DOCUMENTS.
- SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN TWICE. A THIRD SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A

PURCHASE ORDER FROM THE CONTRACTOR OR IT SHALL BE REJECTED.

- CIRCUMSTANCES NECESSITATING A REVISION TO THE PERMITTED DOCUMENTS NOT PROCESSED PRIOR TO INSTALLATION MAY NOT BE ACCEPTED. IF ACCEPTED IT MUST BE LEGIBLE, ACCURATE AND ACCOMPANIED BY A PURCHASE ORDER ORDER FROM THE CONTRACTOR. THE REVISION SHALL BE CHARGED TO THE CONTRACTOR AND DELIVERED TO HIM ON A C.O.D. BASIS.
- SUBSTITUTIONS FROM THE BASE DESIGN OR VARIATIONS TO THE PERMITTED CONTRACT DOCUMENTS, WHETHER RESULTING FROM PROCESSED SHOP DRAWINGS OR NOT, THAT RESULT IN REQUIREMENTS IN LETTERS OF AUTHORIZATION AND/OR PERMIT CONTRACT DOCUMENT CHANGES MANDATED BY THE AUTHORITY HAVING JURISDICTION WILL NOT BE MADE BY THIS OFFICE UNLESS ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR, AND RELEASED ON A C.O.D. BASIS.
- CONTRACTOR SHALL SUBMIT 6 COPIES OF EQUIPMENT LAYOUTS OF ALL ELECTRICAL SPACES, ROOMS, ETC. TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. THE LAYOUTS SHALL CONSIST OF PLAN VIEWS AT A SCALE OF 1/2" = 1'0" AND ELEVATIONS FOR EACH SUCH SPACE OR ROOM, ETC.



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DELIVERABLE: **PERMIT** ISSUE DATE: **04.16.14**

PROJECT NUMBER: 1059-120610

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SYMBOL LEGEND AND

E-100

DELTA G CONSULTING ENGINEERS, INC 707 N.E. 3rd AVE., SUITE 200 FORT LAUDERDALE, FL. 33304 (954) 527-1112 CA#00009181 GEORGE SANJUAN, P.E. PJT. MGR: STEVE BENDER FLORIDA LICENSE #46100 PROJECT #: 130815



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PROJECT NUMBER: 1059-120610 DRAWN BY:

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> PARTIAL **ELECTRICAL SITE** PLAN

DELTA G CONSULTING
ENGINEERS, INC.
707 N.E. 3rd AVE., SUITE 200
FORT LAUDERDALE, FL. 33304
(954) 527-1112

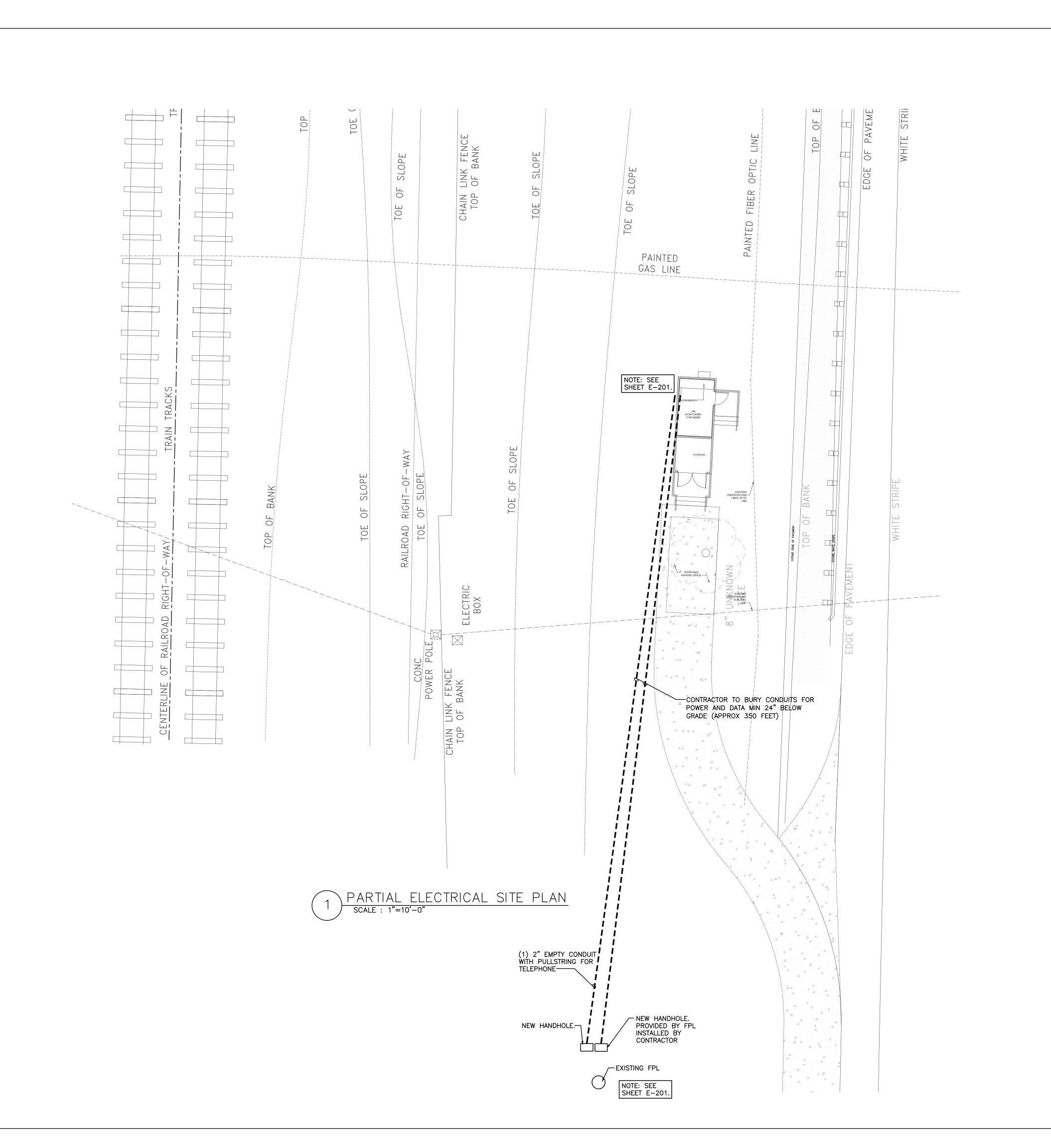
GEORGE SANJUAN, P.E.

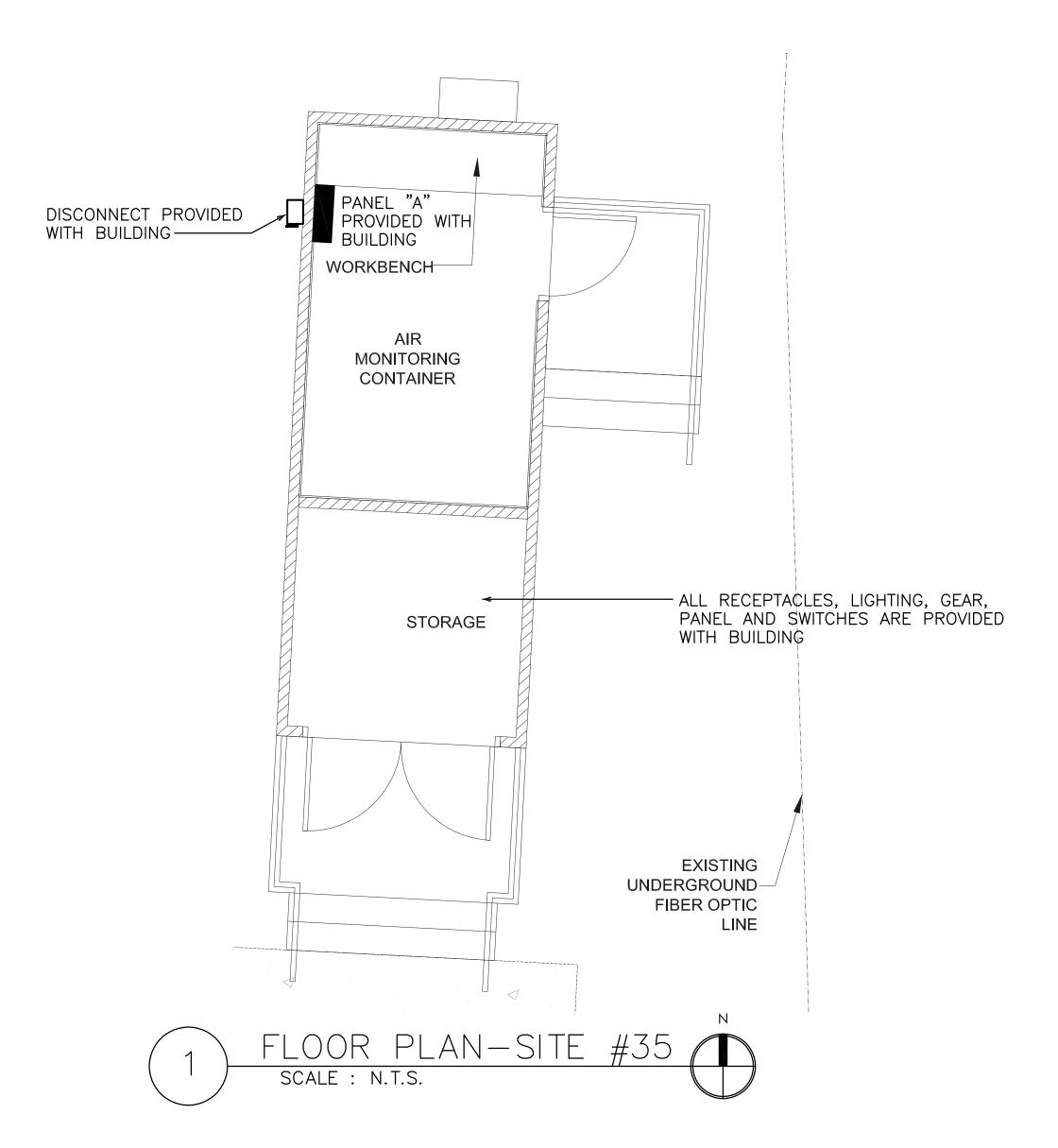
FLORIDA LICENSE #46100

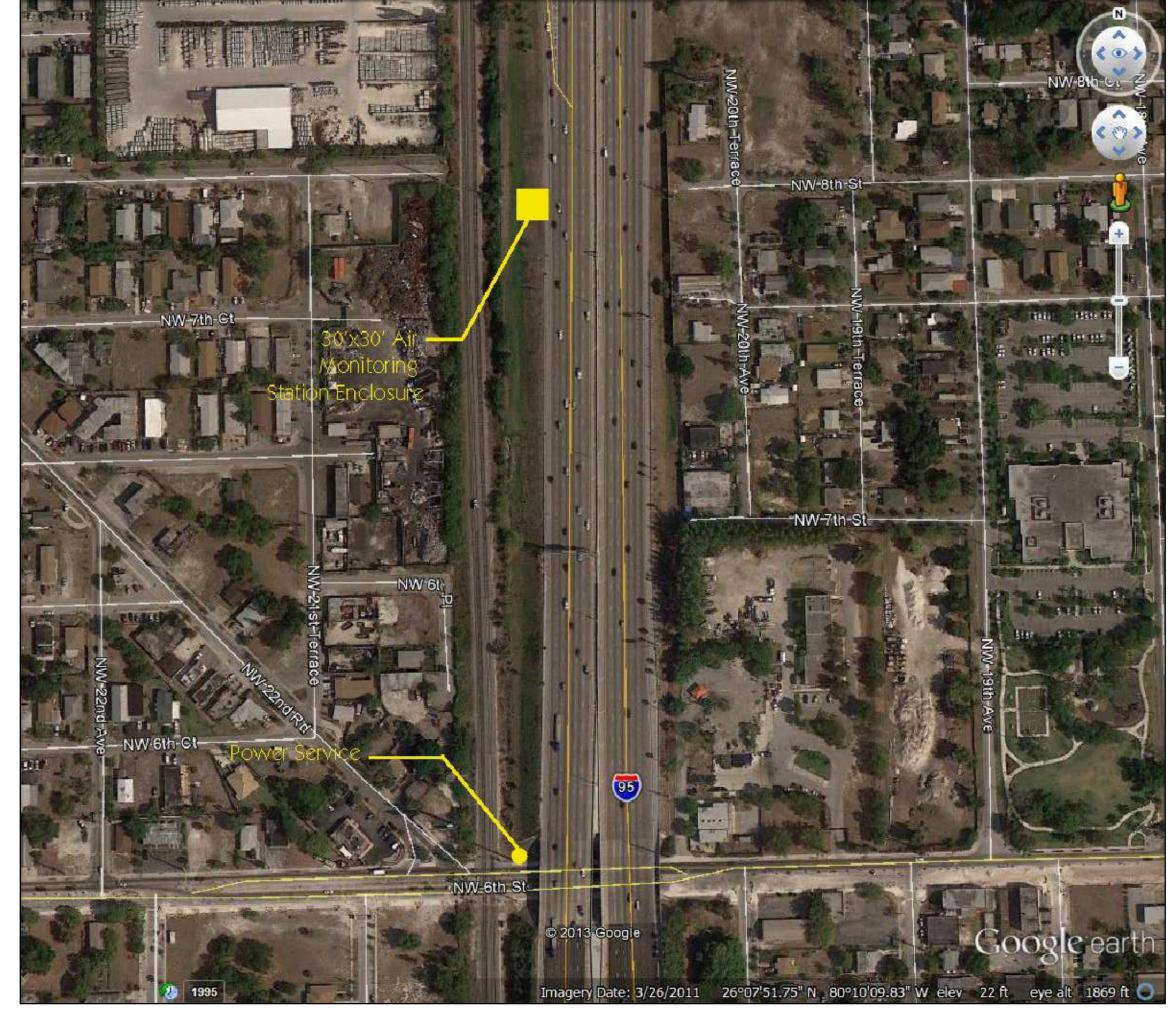
CA#00009181

PJT. MGR: STEVE BENDER PROJECT #: 130815

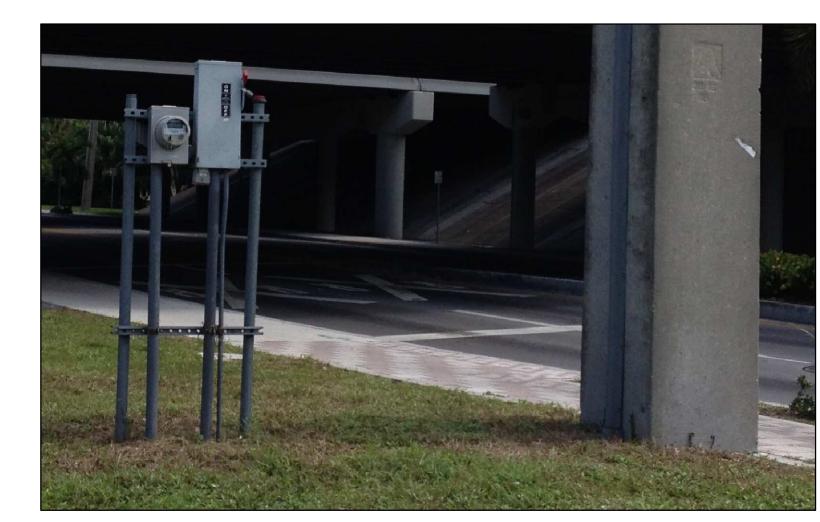
SHEET NUMBER: **E-200**







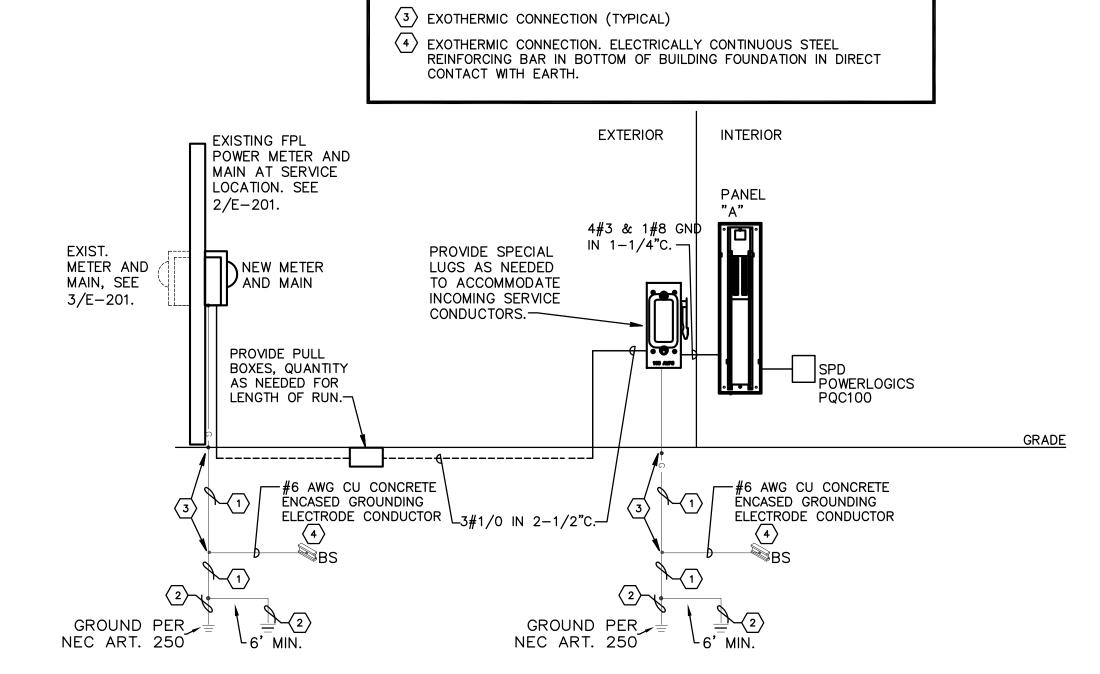
POWER SERVICE LOCATION PLAN



EXISTING POWER SERVICE IMAGE

GENERAL NOTES:

PROVIDE NEW UNI-STRUT ON BACK SIDE OF EXISTING SUPPORT STRUCTURE TO ACCOMMODATE NEW METER AND MAIN, SEE POWER RISER AND 2/E-201.



ELECTRICAL RISER DIAGRAM

GROUNDING KEY NOTES:

1) #8 GROUNDING ELECTRODE CONDUCTOR IN 3/4" PVC SCHEDULE 40

 \bigcirc 10 FT. LONG x $\cancel{4}$ " DIAMETER COPPER DRIVEN GROUND ELECTRODE.

EXISTING	NEW															_	COPPER E	ю Ц	ALUMINUI	W DUS
CKT. LOAD D	ESCRIPTION 3	⊱ WiF	RE GF	RD. C	COND.	POLE/ TRIP		VA HASE			/A HASE	POLE/ TRIP	COND.	GRD.	WIRE	14	LOAD DE	SCRIPTION	ON	СК
1 LIGHTS	1	12			1/2	20	0.2					_	_	-	_	Ť	SPACE			1 2
3 RECEPTACLES	3	12	2 1	2	1/2	20				0.4	1.5	20	1/2	12	12		A/C			1
5 RECEPTACLES		12	2 1		1/2	20	0.2	1.5								┖				
7 RECEPTACLES	3	12	2 1	2	1/2	20				0.2	_					┖	SPACE			8
9 SPACE			_		-	-	0.2	-								╄	SPACE			1
11 SPACE		10		-	7/4	_				_	—					┺	SPACE			1.
																	LCDACE			
13 TVSS 15 ALL FEEDER CALCULATION	INS ARE BASED ON: THH				3/4 SUB	30 TOTAL	_ 	– 2	43 60		_ .1	CIRCUI	T TYPE	: 6 0 F	РНОТОС	ELL	SPACE SPACE (S) TIME SWI	TCH CON	ITROL	
15	INS ARE BASED ON: THHI DUCTORS IN A RACEWAY		CU. TO	TAL KV		TOTAL			4.3 KV/ 18 AMI	2. A		_	t type Iunt tri	=			SPACE ® TIME SWI	ED (©	ISOLATE	1 O GR
15 ALL FEEDER CALCULATION	INS ARE BASED ON: THHI DUCTORS IN A RACEWAY		CU. TO	TAL KV	SUB VA IS	TOTAL				2. A		_		=			SPACE ® TIME SWI			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15 ALL FEEDER CALCULATION	DUCTORS IN A RACEWAY		CU. TO	TAL KV	SUB VA IS	TOTAL	2.	2		2 A PS	.1	_	iunt tri	P GF (FAL	SPACE ® TIME SWI	ED (©	ISOLATE	1 O GR
ALL FEEDER CALCULATIONOT MORE THAN 4 CONT	DUCTORS IN A RACEWAY	I/THWN	CU. TO	TAL KV	SUB VA IS IPERES	TOTAL	2.	PT. G	18 AMI –	2 A PS	.1	ST SH	iunt tri	P (GP) (M.L.O.	FAU	SPACE The switch the s	POLE	ISOLATE	1 O GR
ALL FEEDER CALCULATION NOT MORE THAN 4 CONDER THAN 4 CONDE	120/240 VOLTS	I/THWN	CU. TO TO	TAL KV TAL AM	SUB' VA IS MPERES	TOTAL	2.	PT. GI	18 AMI - RD. □ ISOL	A PS GR	.1	MAIN BRANG	iunt tri S:	P GF (M.L.O.	FAL	SPACE (S) TIME SWI JLT (D) DEDICAT BREAKER:	POLE	ISOLATEI TRIP	1 GRI
ALL FEEDER CALCULATIONOT MORE THAN 4 CONDER THAN 5 CONDER	120/240 VOLTS ■ CABLE = SE	1 PH = R	CU. TO TO	TAL KV	SUB' VA IS MPERES 3 WIR	TOTAL IS	2. EQP	PT. G	18 AMI - RD. □ISOL IBUSWAY	A PS GR	.1	MAIN BRANG BUS I	S:	ES: 16	M.L.O. EDA E	FAL BRAN	SPACE (S) TIME SWI JLT (D) DEDICAT BREAKER: NCH BREAKERS=	POLE	TRIP 22 KAIC 22 KAIC	1 O GR
ALL FEEDER CALCULATION NOT MORE THAN 4 CONDER THAN 4 CONDER THAN 4 CONDER THAN 4 CONDER THAN 5 CONDE	120/240 VOLTS CABLE = SE SURFACE	1 PH = R	CU. TO	TAL KV	SUB' VA IS MPERES 3 WIR	TOTAL IS E STAND ATED (1.5	EQF	PT. G	18 AMI - RD. □ISOL IBUSWAY I KEYED DO	A PS GR	.1	MAIN BRANG BUS I GROU	S: CH POLI	ES: 16	M.L.O. EDA EQUIPM	FAL BRAN	SPACE S TIME SWI JLT OB DEDICAT BREAKER: NCH BREAKERS= CING =	POLE 2 2 BO	TRIP 22 KAIC 22 KAIC	1 O GR

DELTA G CONSULTING ENGINEERS, INC. 707 N.E. 3rd AVE., SUITE 200 FORT LAUDERDALE, FL. 33304 (954) 527-1112 CA#00009181 GEORGE SANJUAN, P.E. FLORIDA LICENSE #46100 PROJECT #: 130815

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> **ELECTRICAL FLOOR** PLANS, RISER **DIAGRAMS AND SCHEDULES**

> > E-201