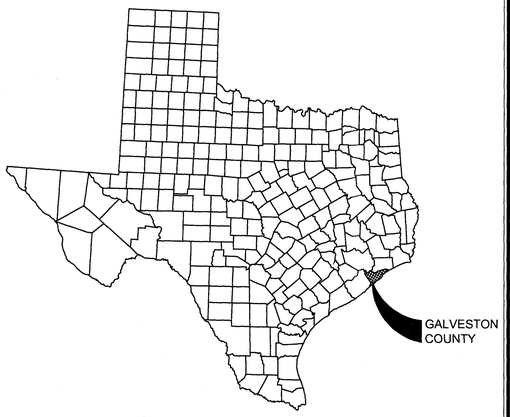

COUNTY LOCATION MAP

NOT TO SCALE

NORTH

VICINITY MAP

NOT TO SCALE

NORTH

SITE LOCATION MAP

NOT TO SCALE

TRUE NORTH

PLAN NORTH

PROJECT

CF DICKINSON MARINE LABORATORY

FLOOD REPAIRS

1502 FM 517 EAST, DICKINSON, TX, 77539

PROJECT NO: 128696 DATE: MAY 02, 2018

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SCOPE OF WORK

REPAIR FLOOD DAMAGED BUILDINGS "A" & "B" TO PRE-HARVEY STATE. THE FOLLOWING IS PROVIDED FOR REFERENCE AS IS NOT AN EXHAUSTIVE SUMMARY OR AN ALL-INCLUSIVE LISTING OF ITEMS OF WORK TO BE PERFORMED. REFER TO THE DRAWINGS, SPECIFICATIONS AND BIDDING DOCUMENTS FOR THE FULL EXTENT OF WORK TO BE PERFORMED:

- ENVIRONMENTAL REMEDIATION OF BUILDING "B" FOR MOLD AND WATER DAMAGE
- DEMOLISH THE FLOOD DAMAGED GIS LAB ADDITION AT BUILDING "A"
- MODIFY ACCESSIBLE ENTRANCE RAMP AT REMOVED GIS LAB INCLUDING EXTERIOR WALL CLOSURE
- REPLACE SUSPENDED LAY-IN CEILING TILE AND GRID IN BUILDING "A" THROUGHOUT
- REPLACE SELECTIVE AREAS OF SUSPENDED LAY-IN CEILING TILE AND GRID IN BUILDING "B"
- REPLACE SELECTIVE LIGHT FIXTURES FOR BOTH BUILDINGS- INTERIOR AND EXTERIOR
- RE-INSTALL REFURBISHED LAY-IN 2X4 LIGHT FIXTURES IN BUILDING "A" AND "B" (OWNER PROVIDED)
- INSTALL EXTERIOR BRICK VENEER CAVITY WEEPS AT BUILDING "A"
- MODIFY PLANTERS AND COURTYARD AT BUILDING "A"
- REPLACE ELECTRIC GATE OPERATOR AT BUILDING "A"
- REPLACE ALL DAMAGED CARPET WITH RESILIENT FLOORING AT BUILDING "A"
- REPLACE ALL DAMAGED RESILIENT FLOORING AT BUILDING "A" AND "B"
- REPLACE WATER DAMAGED CASEWORK AT BUILDING "A" AND "B"
- REPLACE ALL DAMAGED DRYWALL, SHEATHING, IN-WALL INSULATION AND RESILIENT WALL BASE THROUGHOUT
- REPAINT REPAIRED DRYWALL- FULL HEIGHT OF WALLS TO BOTTOM OF CEILINGS OR TO HEIGHTS AS SHOWN
- REPAIR CORRODED METAL STUD WALL FRAMING- INTERIOR AND EXTERIOR WALL CONDITIONS.
- REPLACE SELECTIVE FLOOD DAMAGED DOOR AND FRAMES
- REPAINT ALL INTERIOR DOORS AND FRAMES
- REPAIR OR REPLACE DAMAGED ELECTRICAL ITEMS OF WORK AS SHOWN
- REPAIR OR REPLACE DAMAGED MECHANICAL OR PLUMBING ITEMS OF WORK AS SHOWN
- REPAIR OR REPLACE DAMAGED IT ITEMS OF WORK AS SHOWN
- PROVIDE AND INSTALL FIRE ALARM SYSTEMS AND DEVICES AS SHOWN

ABATEMENT PLANS ARE INCLUDED IN THE SPECIFICATION MANUAL . CONTRACTOR TO NOTE THAT THE ABATEMENT SCOPE OF WORK IS ONLY LIMITED TO BUILDING "B". GC TO INCLUDE COST OF REMEDIATION AND DISPOSAL OF DEBRIS IN PROPOSAL. OWNER (TPWD) WILL PROVIDE THIRD PARTY MONITORING AND TESTING OF ABATEMENT WORK. NO SELECTIVE DEMO OR REMODEL WORK IS ALLOWED TO BEGIN IN BLDG. B UNTIL ENVIRONMENTAL TESTING CERTIFIES BUILDING REMEDIATION IS COMPLETE.

TPWD TEAM

PROJECT MANAGER
Doug Sauve
Texas Parks & Wildlife
512-389-8675
512-389-4633 (fax)
doug.sauve@tpwd.texas.gov

DESIGN MANAGER
Madison Graham
Texas Parks & Wildlife
512-389-4507
madison.graham@tpwd.texas.gov

INSPECTOR
Keith Moore
Texas Parks & Wildlife
512-627-4373
keith.moore@tpwd.texas.gov

FACILITY DIRECTOR
Jerry Mambretti
Texas Parks and Wildlife
281-534-0101
281-534-0120 (fax)
Jerry.Mambretti@tpwd.texas.gov

CONTRACT MANAGER
Cruz Banda
Texas Parks & Wildlife
512-389-8761
512-389-4790 (fax)
cruz.banda@tpwd.texas.gov

CONSTRUCTION MANAGER
Roger Padon
Texas Parks & Wildlife
512-627-4417
roger.padon@tpwd.texas.gov

MARINE LAB MANAGER
David Darden
Texas Parks and Wildlife
281-534-0129
281-534-0120 (fax)
david.darden@tpwd.texas.gov

ECOSYSTEM RESOURCES PROGRAM
Rebecca Hensley
Texas Parks and Wildlife
281-534-0108
Rebecca.Hensley@tpwd.texas.gov

DESIGN TEAM

ARCHITECT
Ramy Ghebranious
PDG Architects
713-629-6100
713-629-6123 (fax)
ramyg@pdgarchitects.com

MEP ENGINEER
Will Meister
Jones / DBR
713-914-0888
713-914-0886 (fax)
wmeister@dbrinc.com

STRUCTURAL ENGINEER
Fred Dally
ASA Dally
713-337-8881
713-337-8882 (fax)
fdally@asadally.com

CIVIL ENGINEER
Edelmiro Castillo
Omega Engineers
281-647-9182
281-647-9184 (fax)
ecastillo@omegaengineers.com

TEXAS PARKS & WILDLIFE

TEXAS PARKS AND WILDLIFE

INFRASTRUCTURE DIVISION

4200 SMITH SCHOOL ROAD · AUSTIN, TEXAS 78744-3292

REGISTERED ARCHITECT
JOE W. MANLEY
09601
STATE OF TEXAS
05/02/18

RELEASED FOR SOLICITATION

PROJECT MANAGER, INFRASTRUCTURE DIVISION — DATE 2018.05.08

DESIGN BRANCH MANAGER, INFRASTRUCTURE DIVISION — DATE 5/14/18

PM BRANCH HEAD, INFRASTRUCTURE DIVISION — DATE 5/10/2018

DEPUTY DIRECTOR, INFRASTRUCTURE DIVISION — DATE 5.10.18

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

ARCHITECTURAL ABBREVIATIONS:

(SEE ENGINEERING SHEETS FOR SYMBOLS APPLICABLE TO THAT WORK)

NUMBER OR SYMBOL
- & AND
- @ AT
- C CENTERLINE
- # POUND OR NUMBER

A
- ABV. ABOVE
- ACOUS. ACOUSTICAL
- A.C.T. ACOUSTICAL CLG. TILE
- A.D. AREA DRAIN
- ADJ. ADJUSTABLE
- A.F.F. ABOVE FINISH FLOOR
- AGGR. AGGREGATE
- ALUM. ALUMINUM
- APROX. APPROXIMATE
- ARCH. ARCHITECT/ARCHITECTURAL
- ASPH. ASPHALT

B
- BD. BOARD
- BIT. BITUMINOUS
- BLDG. BUILDING
- BLK. BLOCK
- BLKG. BLOCKING
- B.M. BENCH MARK
- BM. BEAM
- BOT. BOTTOM
- B.U.R. BUILT-UP ROOFING

C
- CAB. CABINET
- C.B. CATCH BASIN
- CEM. CEMENT
- CER. CERAMIC
- C.I. CAST IRON
- C.G. CORNER GUARD
- C.J. CONTROL JOINT
- CLG. CEILING
- CLO. CLOSET
- CLR. CLEAR
- C.M.U. CONCRETE MASONRY UNIT
- C.O. CASED OPENING
- CO. CLEANOUT
- COL. COLUMN
- CONC. CONCRETE
- CONN. CONNECTION
- CONST. CONSTRUCTION
- CONT. CONTINUOUS
- CORR. CORRIDOR
- CPT. CARPET
- CNTR. COUNTER
- CTR. CENTER
- CTSK. COUNTERSINK

D
- DBL. DOUBLE
- DEPT. DEPARTMENT
- DET. DETAIL
- D.F. DRINKING FOUNTAIN
- DIA. DIAMETER
- DIM. DIMENSION
- DISP. DISPENSER
- DN. DOWN
- D.O. DOOR OPENING
- DR. DOOR
- D.S. DOWNSPOUT
- DWG. DRAWING
- DWR. DRAWER

E
- E. EAST
- EA. EACH
- E.W. EACH WAY
- E.D.F. ELECTRIC DRINKING FOUNTAIN
- E.W.C. ELECTRIC WATER COOLER
- ELEC. ELECTRICAL
- EL. ELEVATION
- EMERG. EMERGENCY
- ENCL. ENCLOSURE
- E.P. ELECTRICAL PANEL
- EQ. EQUAL
- EQUIP. EQUIPMENT
- EXIST. EXISTING
- EXP. EXPANSION
- E.J. EXPANSION JOINT
- EXT. EXTERIOR
- E.I.F.S. EXT. INSUL. & FINISH SYSTEM

F
- F.A. FIRE ALARM
- F.B. FLAT BAR
- F.D. FLOOR DRAIN
- FDTN. FOUNDATION
- F.E. FIRE EXTINGUISHER
- F.E.C. FIRE EXTINGUISHER CABINET
- F.H.C. FIRE HOSE CABINET
- FIN. FINISH
- F.L. FLOW LINE
- FLR. FLOOR
- FLASH. FLASHING
- FLUOR. FLUORESCENT
- F.O.C. FACE OF CONCRETE
- F.O.F. FACE OF FINISH
- F.O.G. FACE OF GLASS
- F.O.M. FACE OF MASONRY
- F.O.S. FACE OF STUDS
- FPRF. FIREPROOF
- F.R. FIRE RATED
- F.R.T. FIRE RETARDANT TREATED
- F.R.T.W. FIRE RETARDANT TREATED WOOD
- F.S. FULL SIZE
- FT. FOOT OR FEET
- FTG. FOOTING
- FURR. FURRING
- FUT. FUTURE

G
- GA. GAUGE
- GALV. GALVANIZED
- G.B. GRAB BAR
- GL. GLAZING
- GND. GROUND
- GR. GRADE
- G.S. GALVANIZED STEEL
- GYP. GYPSUM

H
- H.B. HOSE BIBB
- H.C. HOLLOW CORE
- HDCAP. HANDICAPPED
- HWD. HARDWOOD
- HDWR. HARDWARE
- H.M. HOLLOW METAL
- HORIZ. HORIZONTAL
- HT. HEIGHT

I
- I.D. INSIDE DIAMETER
- IN. INCH
- INSUL. INSULATION
- INT. INTERIOR
- I.B.C. INTERNATIONAL BLDG. CODE

J
- JAN. JANITOR
- JT. JOINT

L
- L ANGLE
- LAB. LABORATORY
- LAM. LAMINATE
- LAV. LAVATORY
- LKR. LOCKER
- LB. POUND
- LBS. POUNDS
- LT. LIGHT

M
- MAX. MAXIMUM
- M.C. MEDICINE CABINET
- MECH. MECHANICAL
- MEMB. MEMBRANE
- MFR. MANUFACTURER
- MH. MANHOLE
- MIN. MINIMUM
- MIR. MIRROR
- MISC. MISCELLANEOUS
- M.O. MASONRY OPENING
- M.R. MOISTURE RESISTANT
- MTD. MOUNTED
- MTL. METAL
- MULL. MULLION

N
- N. NORTH
- N.I.C. NOT IN CONTRACT
- NO. NUMBER
- NOM. NOMINAL
- N.T.S. NOT TO SCALE

O
- OA. OVERALL
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- O.F.C.I. OWNER FURNISHED - CONTRACTOR INSTALLED
- O.F.& I. OWNER FURNISHED AND INSTALLED
- OFF. OFFICE
- OPNG. OPENING
- OPP. OPPOSITE

P
- PNL. PANEL
- P. LAM. PLASTIC LAMINATE
- PL. PLATE
- PLAS. PLASTIC
- PLBG. PLUMBING
- PLYWD PLYWOOD
- PR. PAIR
- PRCST. PRECAST
- PT. POINT
- PTD. PAINTED
- P.T.D. PAPER TOWEL DISPENSER
- P.T.D./R. PAPER TOWEL DISPENSER/RECEPTACLE
- PTN. PARTITION
- P.T.R. PAPER TOWEL RECEPTACLE

Q
- Q.T. QUARRY TILE
- QTY. QUANTITY

R
- R. RISER
- RAD. RADIUS
- R.D. ROOF DRAIN
- REF. REFERENCE
- REFR. REFRIGERATOR
- REG. REGISTER
- REINF. REINFORCE
- RESIL. RESILIENT
- RM. ROOM
- R.O. ROUGH OPENING
- REQ'D. REQUIRED

S
- S. SOUTH
- S.C. SOLID CORE
- S.C.D. SEAT COVER DISPENSER
- SCHED. SCHEDULE
- S.D. SOAP DISH OR STORM DRAIN
- SECT. SECTION
- S.F. SQUARE FEET
- SHWR. SHOWER
- SHT. SHEET
- SIM. SIMILAR
- S.N.D. SANITARY NAPKIN DISPENSER
- S.N.R. SANITARY NAPKIN RECEPTACLE
- SPEC. SPECIFICATION
- SPEC'D. SPECIFIED
- SPECS. SPECIFICATIONS
- SQ. SQUARE
- S.S. SANITARY SEWER/ STAINLESS STEEL
- STD. STANDARD
- STL. STEEL
- STOR. STORAGE
- STR. STAIR
- STRUC. STRUCTURAL
- STM. SWR. STORM SEWER
- SUSP. SUSPENDED
- SWR. SEWER
- SW. SWITCH
- SYM. SYMETRICAL

T
- T.P.D. TOILET PAPER DISPENSER
- T&G TONGUE AND GROOVE
- T.B. TOWEL BAR
- TEL. TELEPHONE
- TER. TERRAZZO
- THK. THICK
- T.O.C. TOP OF CURB
- T.O.M. TOP OF MASONRY
- T.O.P. TOP OF PAVEMENT
- T.O.S. TOP OF STEEL
- T.O.W. TOP OF WALL
- T.P.D. TOILET PAPER DISPENSER
- TRD. TREAD
- TRTD. TREATED
- TV. TELEVISION
- TYP. TYPICAL

U
- U.G. UNDERGROUND
- U.N.O. UNLESS NOTED OTHERWISE
- UNFIN. UNFINISHED
- UTIL. UTILITY

V
- VENT. VENTILATION
- V.T.R. VENT THRU ROOF
- VEST. VESTIBULE

W
- W. WEST
- W/ WITH
- W.C. WATER CLOSET
- W.H. WATER HEATER
- WD. WOOD
- WDW. WINDOW
- W/O WITHOUT
- WP. WATERPROOF
- WSCT. WAINSCOT
- WT. WEIGHT
- W.W.F. WELDED WIRE FABRIC

BUILDING CODE SUMMARY:

A. INTERNATIONAL CODE COUNCIL
- i. BUILDING CODE INTERNATIONAL BUILDING CODE 2015
- ii. RESIDENTIAL CODE INTERNATIONAL RESIDENTIAL CODE 2015
- iii. EXISTING BUILDINGS INTERNATIONAL EXISTING BUILDINGS CODE 2015
- iv. STRUCTURAL CODE INTERNATIONAL BUILDING CODE 2015
- v. PLUMBING CODE INTERNATIONAL PLUMBING CODE 2015
- vi. MECHANICAL CODE INTERNATIONAL MECHANICAL CODE 2015
- vii. ENERGY CODE INTERNATIONAL ENERGY CODE 2012
- viii. GAS CODE INTERNATIONAL FUEL GAS CODE 2015

B. NATIONAL FIRE PROTECTION ASSOCIATION
- i. ELECTRICAL CODE NATIONAL ELECTRICAL CODE NFPA - 70 2017
- ii. FIRE CODE NFPA - 1 2015
- iii. LIFE SAFETY CODE NFPA - 101 2015

C. STATE ENERGY CONSERVATION OFFICE/TEXAS COMPTROLLERS OFFICE

i. ENERGY CODES FOR STATE BUILDINGS - energy conservation design standards: texas administrative code, title 34, part 1,ch.19, subchapter c (link)
i.a. COMPLIANCE WITH THE ENERGY CONSERVATION DESIGN STANDARD OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) / ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA), ENERGY STANDARD FOR BUILDINGS, ASHRAE/IESNA STANDARD 90.1 (2013)

see seco website for state funded buildings, new construction and major renovation requirements and seco compliance certification forms (link)

ii. WATER CONSERVATION STANDARDS FOR STATE BUILDINGS - energy conservation design standards: texas administrative code, title 34, part 1,ch.19, subchapter c (link)
ii.a. COMPLIANCE WITH THE WATER CONSERVATION DESIGN STANDARDS FOR STATE BUILDINGS AND INSTITUTIONS OF HIGHER EDUCATION FACILITIES, STATE ENERGY CONSERVATION OFFICE (SECO), 2016

See seco website for texas water conservation design standards, requirements and seco compliance certification / reporting form (link)

D. ACCESSIBILITY CODE
- i. US DEPT. OF JUSTICE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ii. ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES; OUTDOOR DEVELOPED AREAS, NOVEMBER 25, 2013
- iii. 2012 TEXAS ACCESSIBILITY STANDARDS, ELIMINATION OF ARCHITECTURAL BARRIERS, TEXAS GOVERNMENT CODE, CHAPTER 469

TEXAS ACCESSIBILITY STANDARDS (TAS):

THIS PROJECT DOES NOT INCLUDE WORK MEETING THE DEFINITION OF "ALTERATION" AS DEFINED IN SECTION 106.5.5 OF TAS. AS SUCH, IT IS NOT SUBJECT TO TAS AND DOES NOT REQUIRE SUBMISSION TO TDLR FOR REVIEW. IF THE SCOPE OF THE PROJECT CHANGES SUCH THAT THIS IS NO LONGER THE CASE, THE PROJECT MUST THEN COMPLY WITH THE TAS AND DRAWINGS MUST BE SUBMITTED TO TDLR FOR REVIEW.

TAS 160.5.5 ALTERANTIONS: A CHANGE TO A BUILDING OR FACILITY THAT AFFECTS OR COULD AFFECT THE USABILITY OF THE BUILDING OR FACILITY OR PORTION THEREOF. ALTERATIONS INCLUDE, BUT AR NOT LIMITED TO, REMODELING, RENOVATION, REHABILITATION, RECONSTRUCTION, HISTORIC RESTORATION, RESURFACING OF CIRCULATION PATHS OR VEHICULAR WAYS, CHANGES OR REARRANGEMENT OF THE STRUCTURAL PARTS OR ELEMENTS, AND CHANGES OR REARRANGEMENT IN THE PLAN CONFIGURARION OF WALLS AND FULL-HEIGHT PARTITIONS. NORMAL MAINTENANCE, REROOFING, PAINTING OR WALLPAPERING, OR CHANGES TO MECHANICAL AND ELECTRICAL SYSTEMS ARE NOT ALTERATION UNLESS THEY AFFECT THE USABILITY OF THE BUILDING OR FACILITY.

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
JOE W. MAHLER
09601
STATE OF TEXAS
[illegible]
05/02/2018

PDG ARCHITECTS

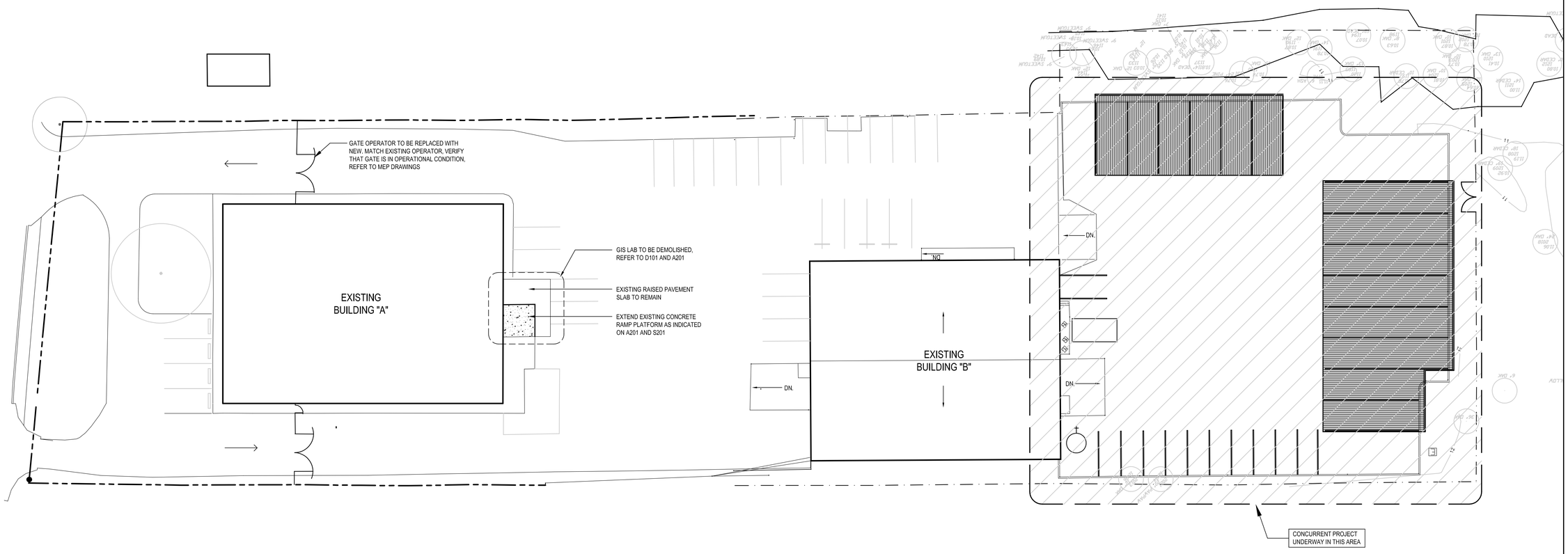
CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05/02/18
DESIGNED BY: RG
DRAWN BY: HF
REVIEWED BY: JWB
REVISED:
REVISED:

SHEET TITLE
GENERAL INFORMATION SHEET

SHEET NUMBER
G001
BUILDING "A"& "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



PLAN NORTH TRUE NORTH

0 SCALE: 20'
1" = 20'-0"

SITE PLAN 01

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
JOSE W. MARTINEZ
09601
STATE OF TEXAS
05/02/18

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE:	05-02-2018
DESIGNED BY:	RG
DRAWN BY:	HF
REVIEWED BY:	JWB
REVISED:	
REVISED:	
REVISED:	

SHEET TITLE
ARCHITECTURAL SITE PLAN

SHEET NUMBER
AS01
BUILDING "A" & "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

DEMOLITION NOTES:

1. ALL FLOOR FINISHES IN EXISTING BUILDING SHALL BE REMOVED AND SLAB SCRAPED AND CLEANED TO RECEIVE NEW FLOOR FINISH.
2. ALL LAY-IN CEILING AND GRIDS SHALL BE REMOVED AND DISCARDED.
3. ALL EXTERIOR WALL CORRODED BASE METAL TRACK SHALL BE REMOVED AND REPLACED, ESTIMATE 75% OF BASE TRACK TO BE REPLACED, REFER TO A501.
4. EXTERIOR WALL SHEATHING SHALL BE PARTIALLY REMOVED TO ALLOW FOR CLOSED CELL SPRAY INSULATION. REFER TO A201 AND A501.
5. ALL PLUMBING FIXTURES SHALL BE REMOVED, CLEANED AND REINSTALLED. REFER TO PLUMBING PLANS.
6. DIRT IN EXTERIOR PLANTERS SHALL BE REMOVED TO 12" BELOW FINISH FLOOR, ADD 8" OF COMPACTED SAND AND PROVIDE A 4" CONCRETE SLAB WITH #3 REBAR @ 15 O.C., SLAB SHALL PROVIDE POSITIVE SLOPE TO DRAIN OVER EXISTING SLOPE BRICK WALL. IF PORTION OF THE PLANTER HAS EXISTING LSAB, THE SLAB SHALL BE SAW CUT AND REPLALCED AS INDICATED.
7. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

PLAN NORTH

TRUE NORTH

DEMOLITION PLAN 01
1/8" = 1'-0"

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT JOE W. MAHLER 09601 STATE OF TEXAS
05/02/2018

PDG ARCHITECTS

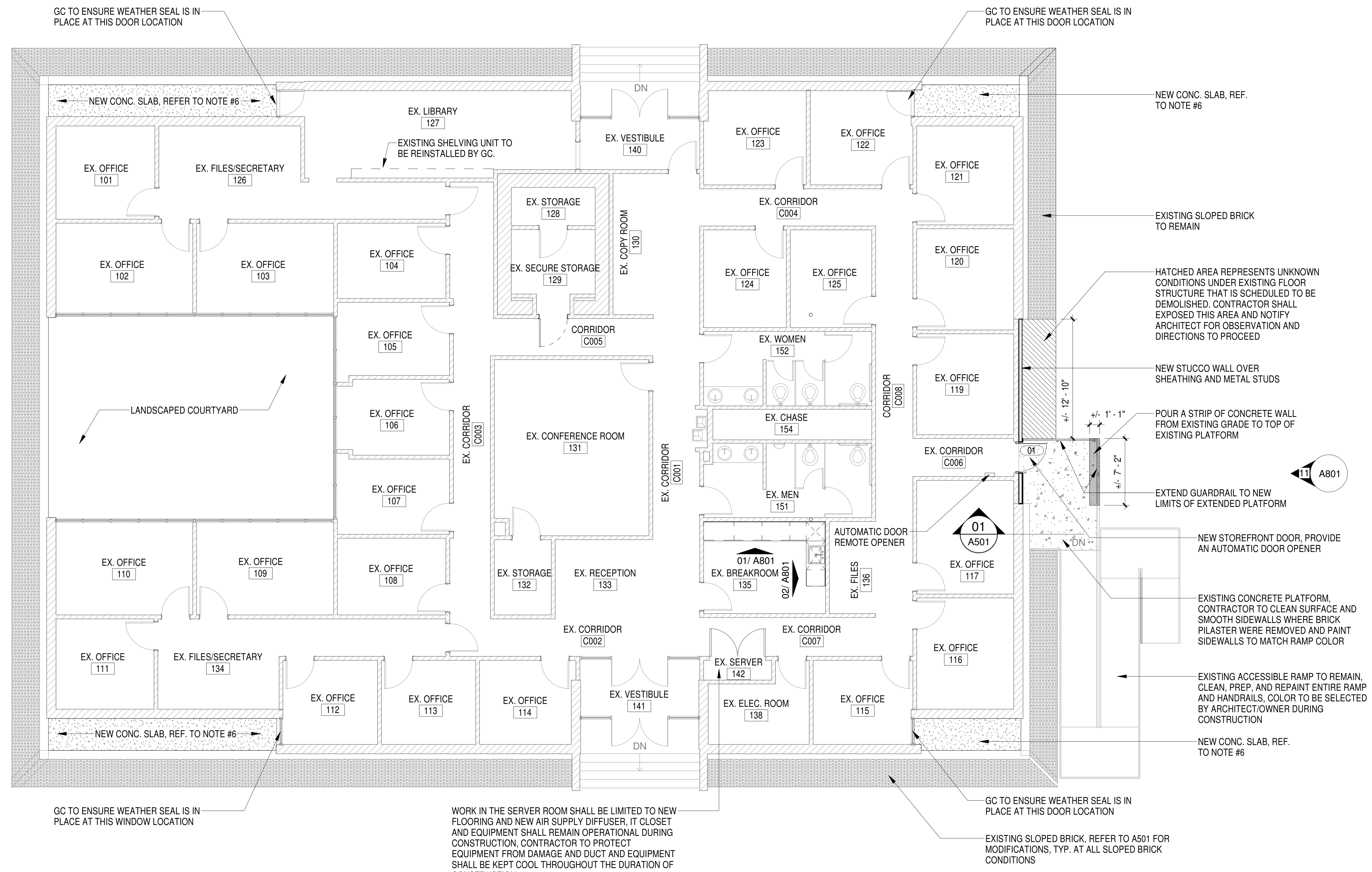
CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05/02/18
DESIGNED BY: RG
DRAWN BY: HF
REVIEWED BY: JWB
REVISED:
REVISED:

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
D101
BUILDING "A"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



PLAN NOTES:

1. ALL FLOOR FINISHES SHALL BE "VCT-1" U.N.O.
2. BUILDING SHALL RECEIVE ALL LAY-IN CEILING AND GRIDS, REF. TO FINISH SCHEDULE 09/A801.
3. ALL EXTERIOR WALL CORRODED BASE METAL TRACK SHALL BE REMOVED AND REPLACED, ESTIMATE 75% OF BASE TRACK TO BE REPLACED. REFER TO A501.
4. EXTERIOR WALL SHEATHING SHALL BE PARTIALLY REMOVED THROUGHOUT THE EXTERIOR PERIMETER OF THE BUILDING TO ALLOW FOR CLOSED CELL SPRAY INSULATION. REFER TO A201 AND A501.
5. ALL WALLS SHALL RECEIVE GYPSUM BOARD FROM FLOOR FINISH GRADE TO WHERE GYPSUM BOARD WAS REMOVED, FLOAT, FINISH AND PAINT ENTIRE WALL.
6. DIRT IN EXTERIOR PLANTERS SHALL BE REMOVED TO 12" BELOW FINISH FLOOR, ADD 8" OF COMPACTED SAND AND PROVIDE A 4" CONCRETE SLAB WITH #3 REBAR @ 15 O.C., SLAB SHALL PROVIDE POSITIVE SLOPE TO DRAIN OVER EXISTING SLOPE BRICK WALL. IF PORTION OF THE PLANTER HAS EXISTING LSAB, THE SLAB SHALL BE SAW CUT AND REPLALCED AS INDICATED
7. PROVIDE 4" HIGH ROPPE RUBBER BASE THROUGH OUT THE BUILDING, COLOR SHALL BE "BLACK/BROWN".
8. ALL PLUMBING FIXTURES SHALL BE REMOVED, CLEANED AND REINSTALLED. REFER TO PLUMBING PLANS.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR NEW WORK.
10. BREAK ROOM SHALL RECEIVE NEW BASE CABINETS AND DRAWERS AS INDICATE ON CONSTRUCTION DOCUMENTS.
11. ALL WALLS SHALL BE REPAINTED IN ENTIRETY. COLOR TO BE SELECTED BY OWNER DURING CONSTRUCTION.
12. CONTRACTOR TO INSTALL FIBERGLASS INSULATION IN ALL WALLS UP TO 48" AFF OR EXTEND ABOVE TO ADJOIN EXISTING INSULATION IN WALL.
13. CONTRACTOR SHALL PROVIDE TEMPORARY COOLING AIR FOR EXISTING SERVER, COOLING SHALL PROVIDED REMAIN FOR THE DURATION OF THE PROJECT ON CONTINUOUS 24/7 BASIS.

PLAN NORTH

TRUE NORTH

NOTATION PLAN 01
1/8" = 1'-0"

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT JOE W. MAHLER 09601 STATE OF TEXAS
05/02/2018

PDG ARCHITECTS

CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

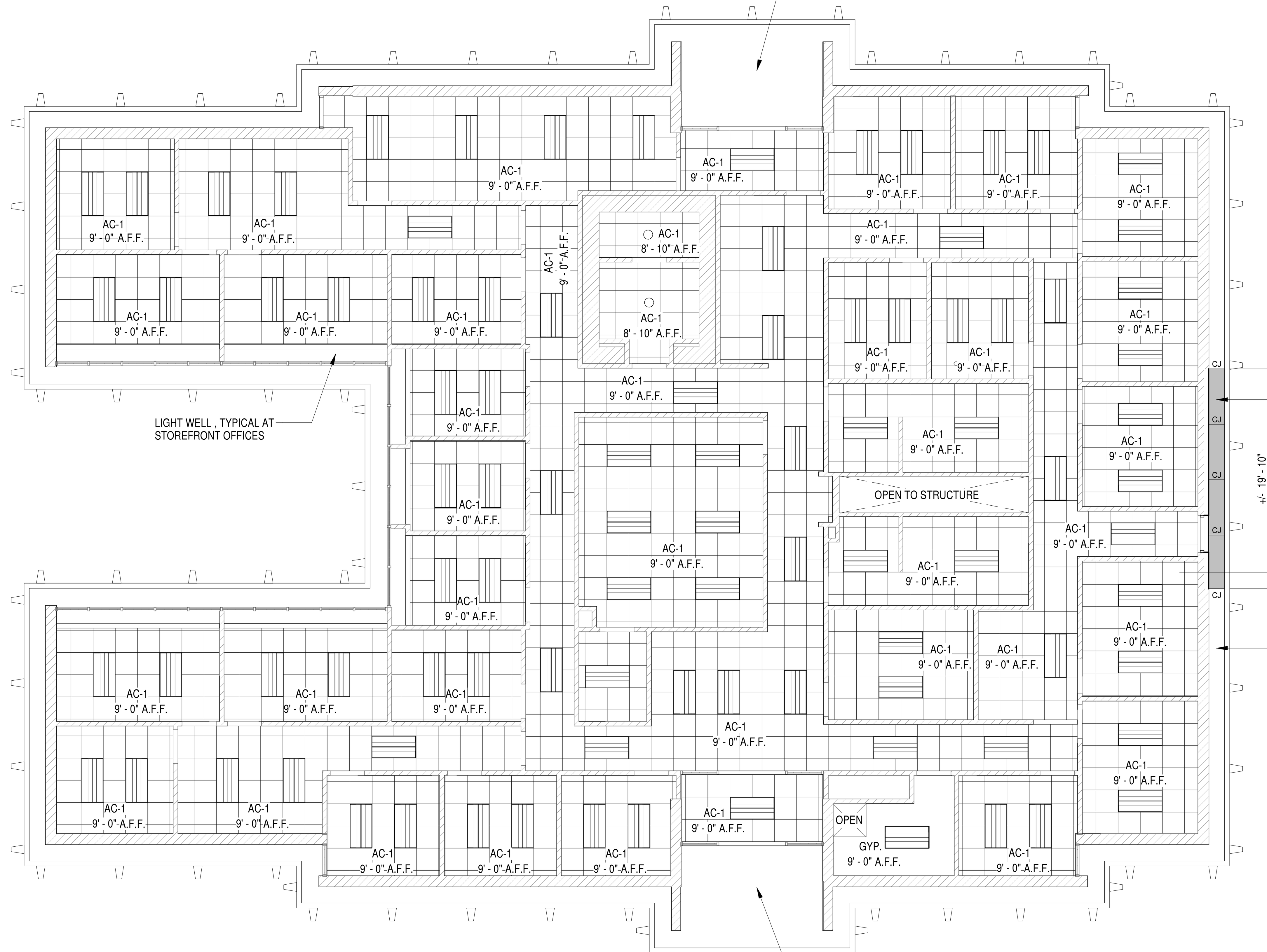
DATE:	05/02/18
DESIGNED BY:	RG
DRAWN BY:	HF
REVIEWED BY:	JWB
REVISED:	
REVISED:	

SHEET TITLE
FLOOR PLAN

SHEET NUMBER
A201
BUILDING "A"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

ALL EXTERIOR SOFFIT CAN LIGHTS SHALL BE REMOVED AND REPLACED WITH NEW LED DOWNLIGHTS, CONTRACTOR TO ENSURE THAT ALL FIXTURES ARE IN WORKING CONDITION, TYPICAL THROUGHOUT THE BUILDING



CONTRACTOR TO INSTALL NEW STUCCO SOFFIT IN THIS AREA AS INDICATED, PROVIDE CONTROL JOINT AT 5'-0" O.C. MAX.

12
A501

11 A801

ALL EXTERIOR SOFFIT CAN LIGHTS SHALL BE REMOVED AND REPLACED WITH NEW LED DOWNLIGHTS, CONTRACTOR TO ENSURE THAT ALL FIXTURES ARE IN WORKING CONDITION, TYPICAL THROUGHOUT THE BUILDING

ALL EXTERIOR SOFFIT CAN LIGHTS SHALL BE REMOVED AND REPLACED WITH NEW LED DOWNLIGHTS, CONTRACTOR TO ENSURE THAT ALL FIXTURES ARE IN WORKING CONDITION, TYPICAL THROUGHOUT THE BUILDING

CEILING PLAN NOTES:

1. BUILDING SHALL RECEIVE ALL LAY-IN CEILING AND GRIDS, REF. TO FINISH SCHEDULE 09/A801.
2. ALL EXTERIOR SOFFIT EXISTING DOWNLIGHTS SHALL BE REMOVED AND REPLACED WITH NEW LED DOWNLIGHTS, CONTRACTOR TO ENSURE THAT ALL FIXTURES ARE IN WORKING CONDITION.
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SCOPE OF WORK.
4. MECHANICAL AIR SUPPLY AND RETURN DIFFUSERS WILL BE INSTALLED BY OTHERS, GENERAL CONTRACTOR TO COORDINATE WITH OWNER THE TIMELINE WHEN CONSTRUCTION WILL BE READY FOR SUPPLY/RETURN AIR DIFFUSERS INSTALLATION.

PLAN NORTH TRUE NORTH

REFLECTED CEILING PLAN
1/8" = 1'-0"
01

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
JOE W. MAHLER
09601
STATE OF TEXAS
05/02/2018

PDG ARCHITECTS

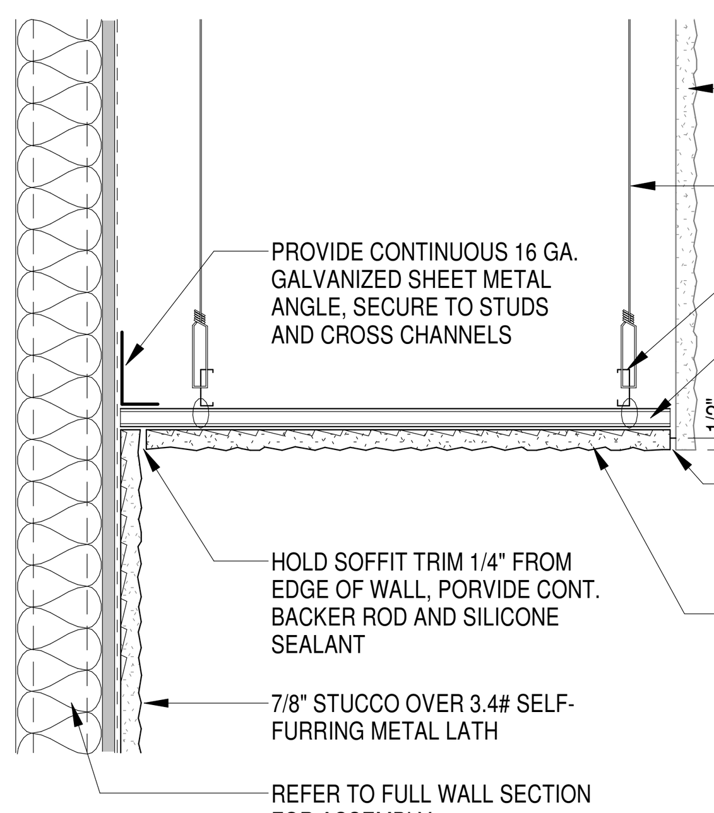
CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE:	05/02/18
DESIGNED BY:	RG
DRAWN BY:	HF
REVIEWED BY:	JWB
REVISED:	
REVISED:	

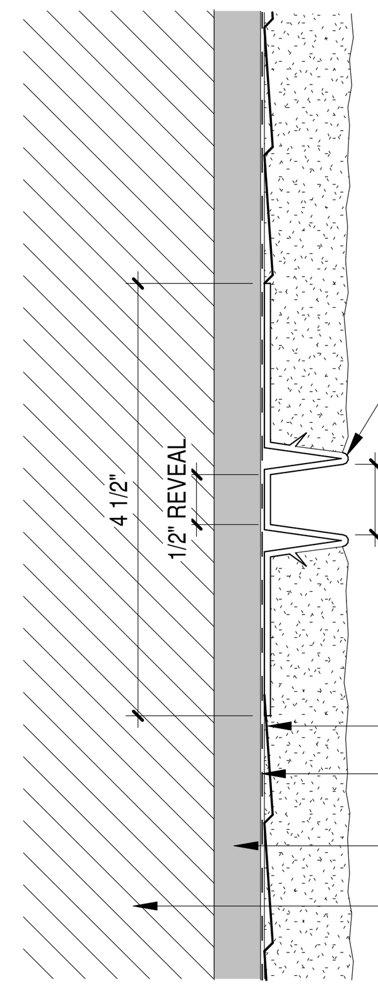
SHEET TITLE
REFLECTED CEILING PLAN

SHEET NUMBER
A202
BUILDING "A"

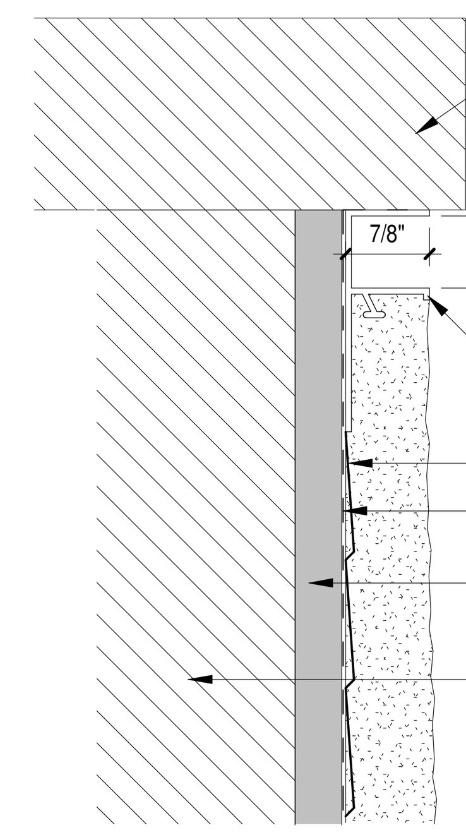
PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



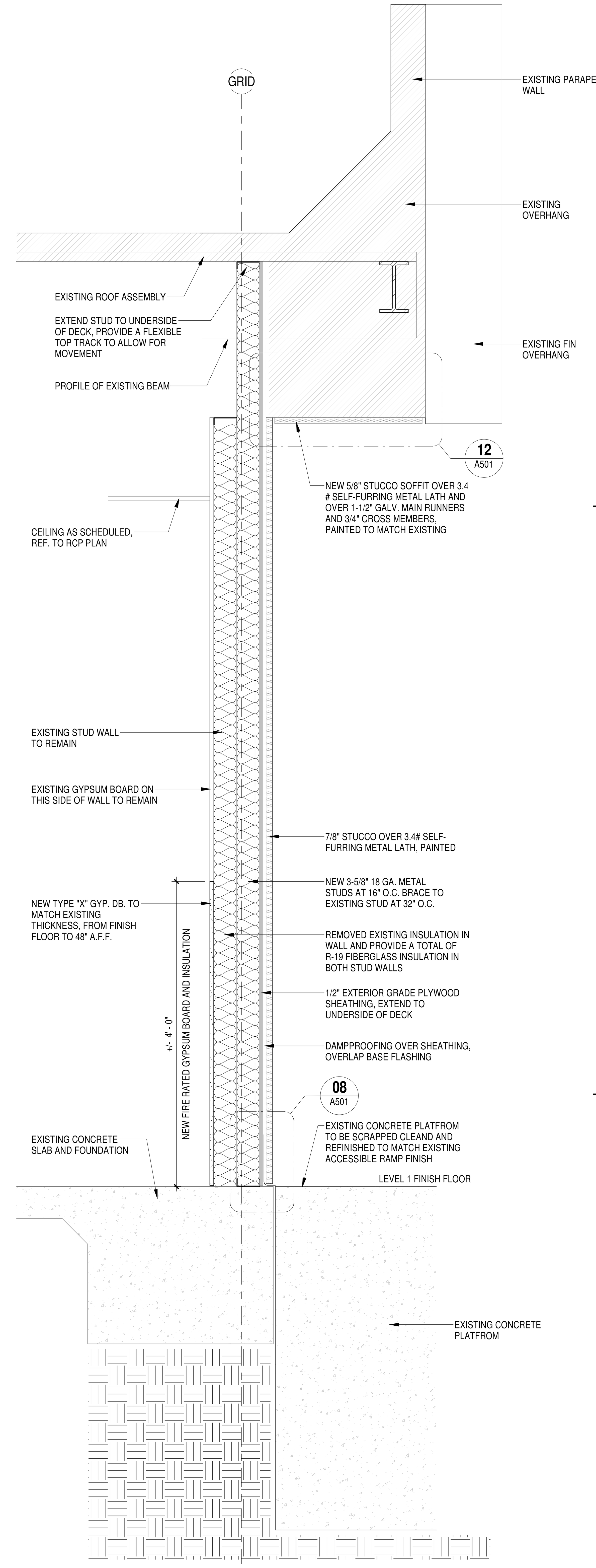
STUCCO SOFFIT DETAIL
1 1/2" = 1'-0"
12



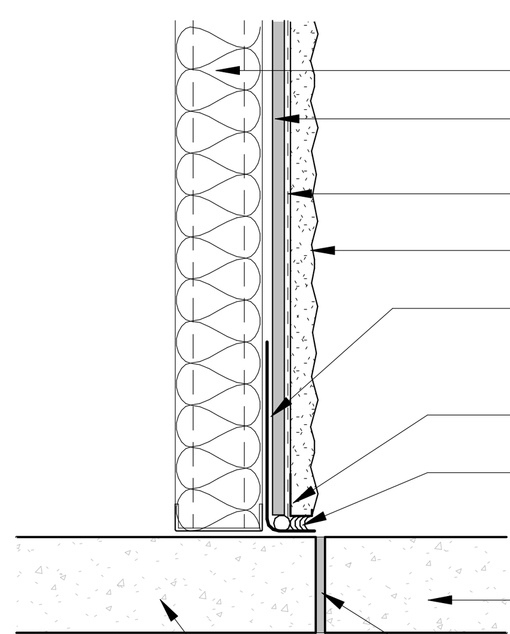
STUCCO REVEAL @ MID CONDITION
6" = 1'-0"
11



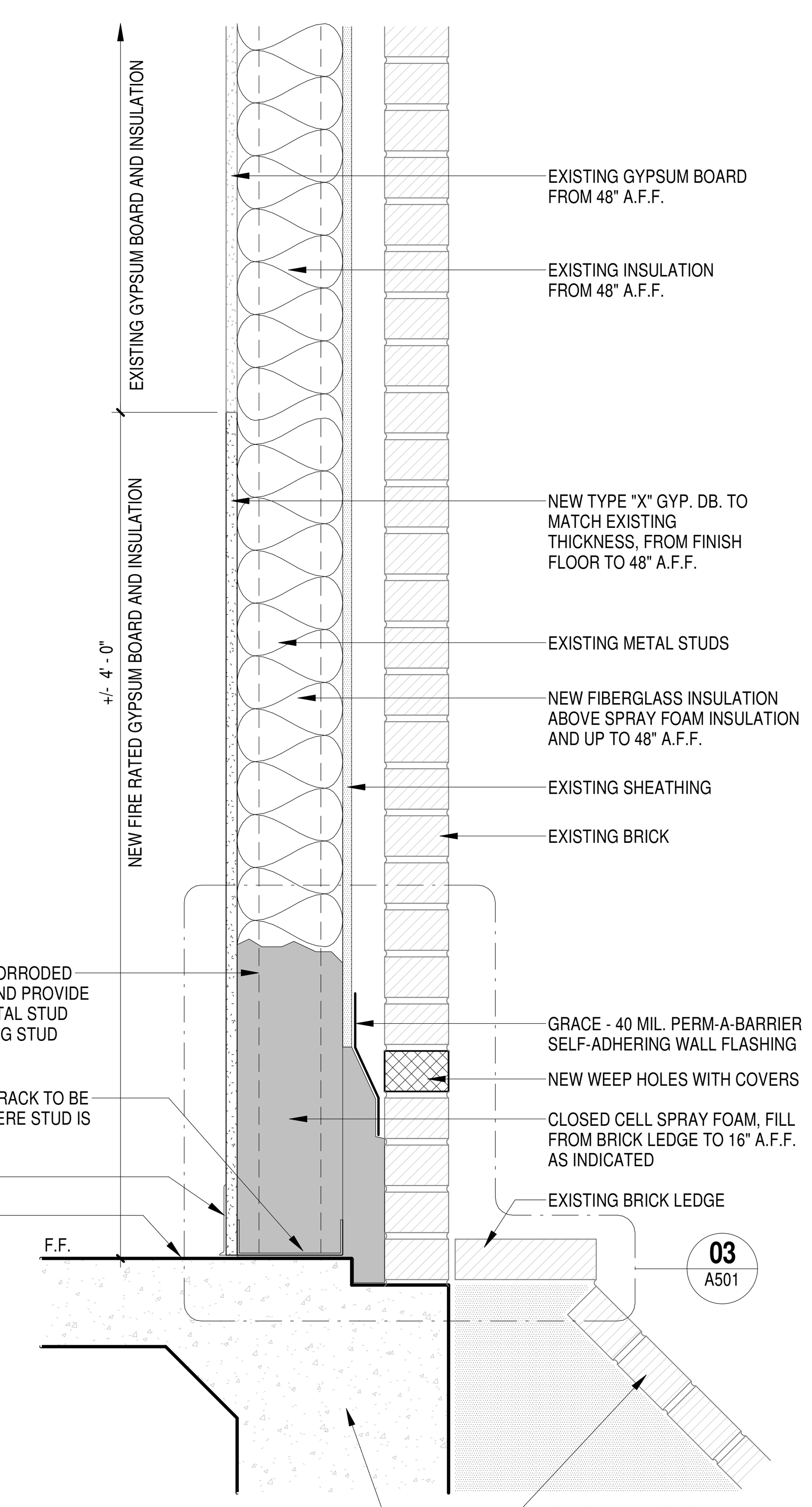
STUCCO REVEAL @ END CONDITION
6" = 1'-0"
10



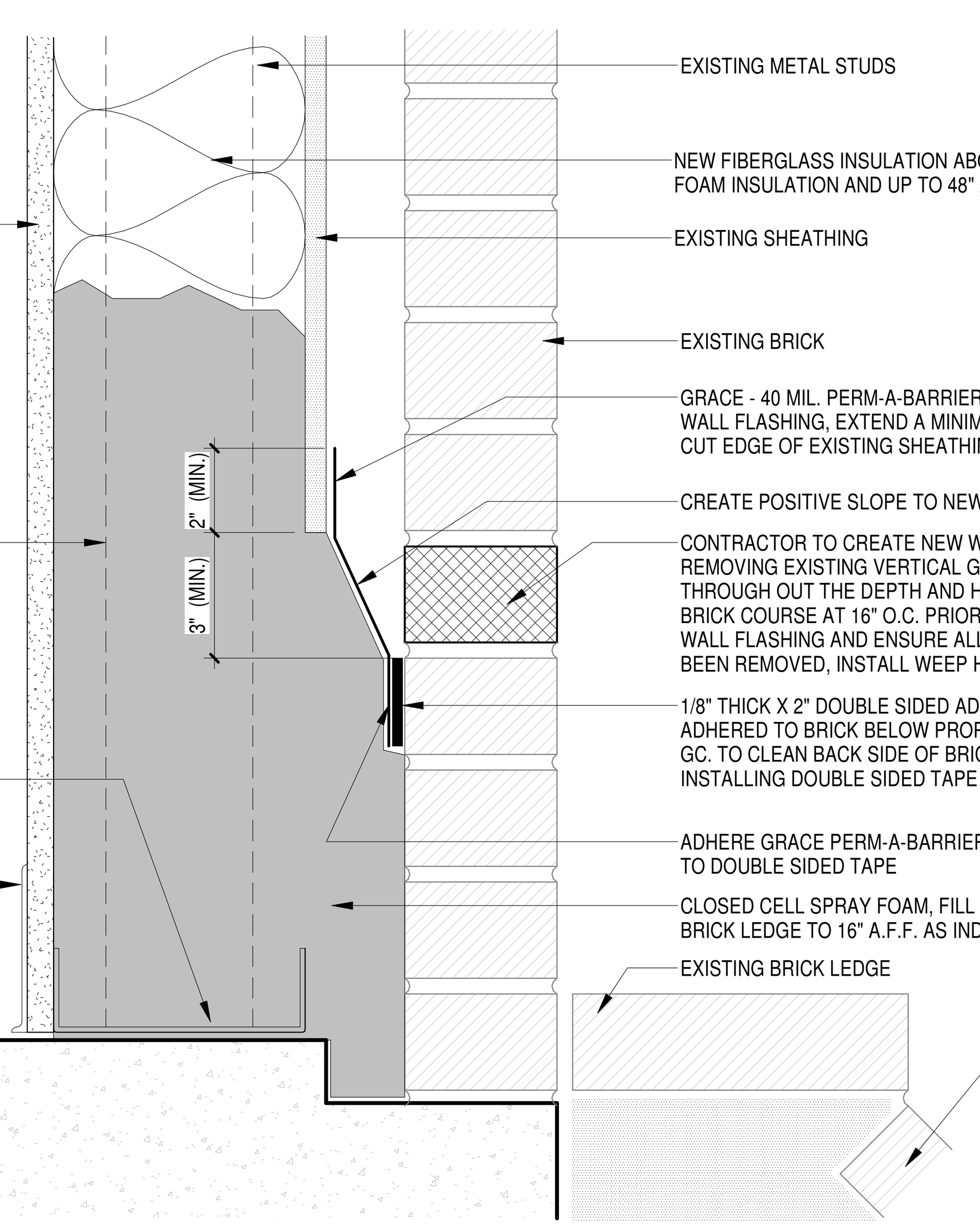
SOUTH WALL SECTION AT LANDING
1" = 1'-0"
01



STUCCO TERMINATION AT FOUNDATION
1 1/2" = 1'-0"
08



FOUNDATION DETAIL AT EXISTING WALL
1 1/2" = 1'-0"
02



ENLARGED FOUNDATION FLASHING DETAIL
3" = 1'-0"
03

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
JOE W. MAHLER
09601
STATE OF TEXAS
05/02/2018

PDG ARCHITECTS

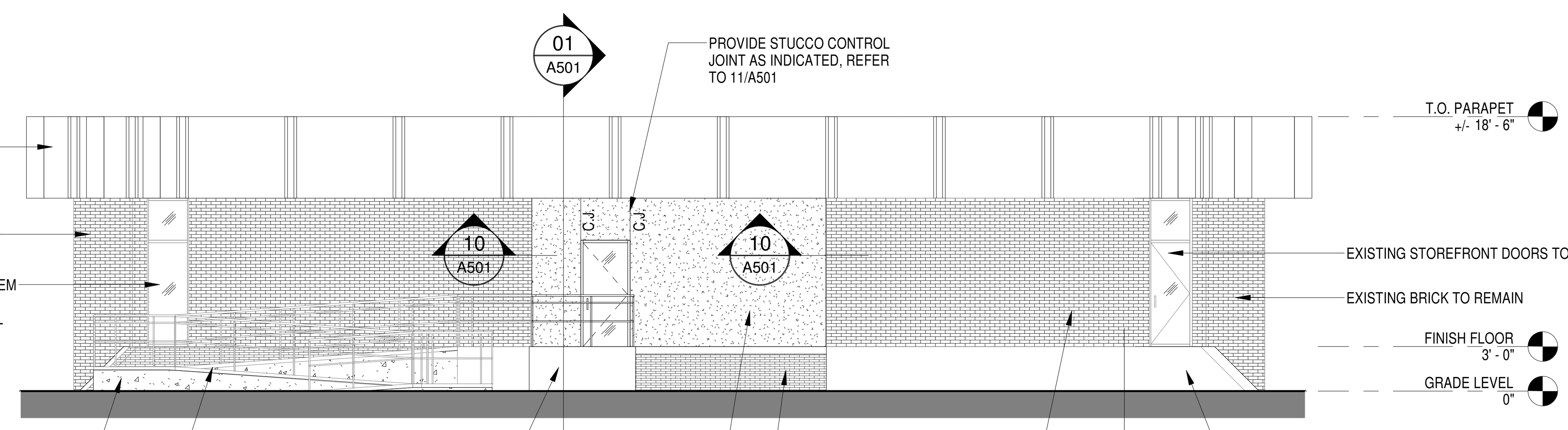
CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE:	05/02/18
DESIGNED BY:	RG
DRAWN BY:	HF
REVIEWED BY:	JWB
REVISED:	
REVISED:	

SHEET TITLE
SECTIONS AND DETAILS

SHEET NUMBER
A501
BUILDING "A"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

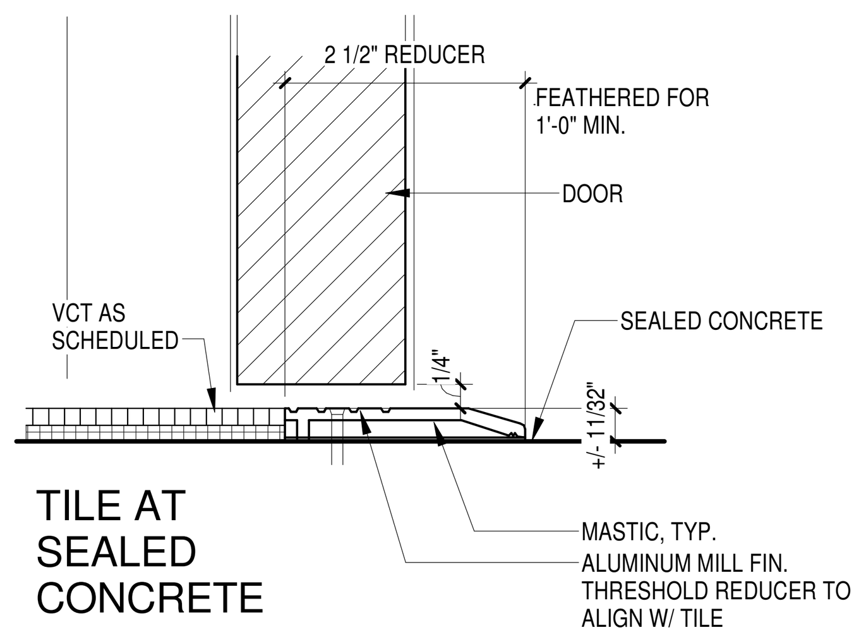


SOUTH ELEVATION 11
1/8" = 1'-0"

FINISH MATERIAL SCHEDULE

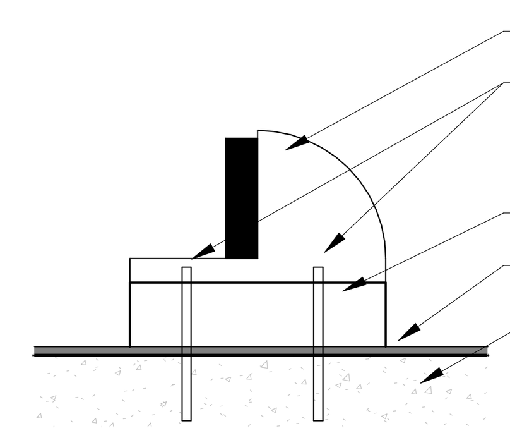
CODE	MATERIAL	MANUFACTURER	DESCRIPTION			ADDITIONAL INFORMATION
			SERIES	COLOR	DIMENSIONS	
AC-1	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED	WHITE	24"X24"X5/8"	
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	EXCELON	51803 - PEARL WHITE	12"X12"	VERIFY WITH OWNER PRIOR PROCUREMENT
B-1	RUBBER FLOOR BASE	ROPPE			4"	
P-1	WALL PAINT	SHERWIN WILLIAMS		SW-6252 "ICE CUBE"		INTERIOR PAINT - VERIFY WITH OWNER PRIOR PROCUREMENT
P-2	H.M. DOOR FRAME	SHERWIN WILLIAMS				MATCH EXISTING DOOR FRAME COLOR
P-3	STUCCO COLOR	SHERWIN WILLIAMS				MATCH EXISTING STUCCO SOFFIT COLOR
P-4	ADA RAMP HANDRAIL	SHERWIN WILLIAMS				COLOR WILL BE SELECTED BY ARCHITECT/OWNER DURING CONSTRUCTION
P-5	ADA RAMP CONC. SURFACE	SHERWIN WILLIAMS				COLOR WILL BE SELECTED BY ARCHITECT/OWNER DURING CONSTRUCTION

FINISH MATERIAL SCHEDULE 09
NTS



TILE AT
SEALED
CONCRETE

VCT AT SEALED CONC. TRANSITION 08
6" = 1'-0"



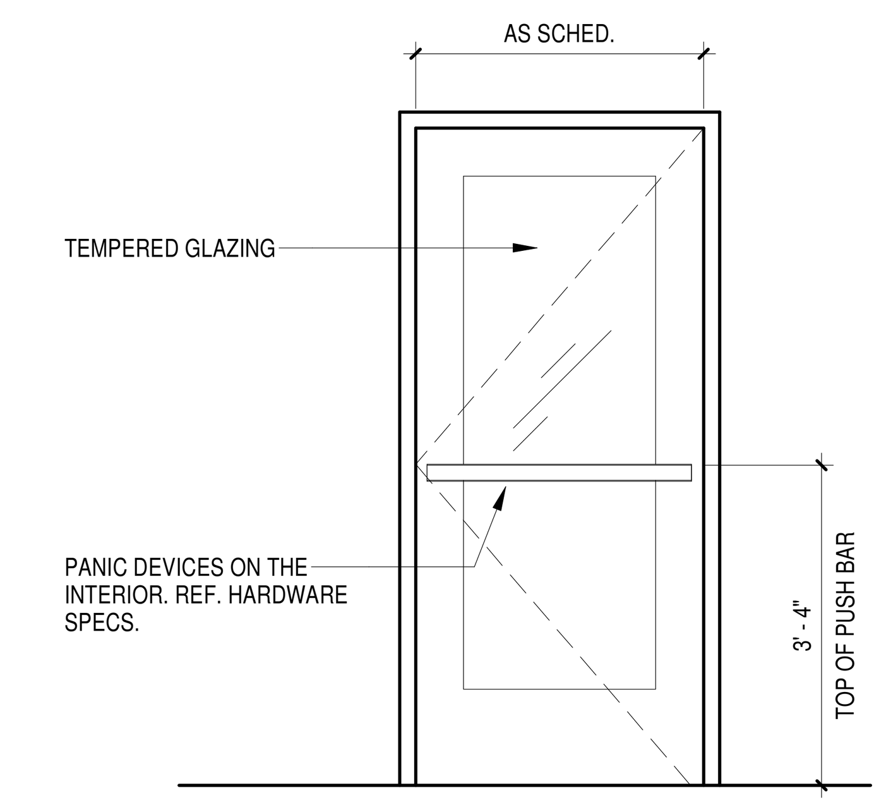
DOOR STOP DETAIL 07
1" = 1'-0"

Door Schedule									
Mark	Type Mark	Width	Height	Finish	Frame Material	Weatherhead	Threshold	Hardware	Comments
01	A	3' - 0"	7' - 0"	ALUMINUM / GLAZING	ALUMINUM	HEAD AND JAMBS	YES	MATCH EXISTING DOOR HARDWARE	PROVIDE AUTOMATIC DOOR OPENER TO MATCH EXISTING ACCESSIBLE DOOR OPENER

ALL EXISTING DOORS IN BUILDING "A" SHALL REMAIN, DOOR FRAMES TO BE PAINTED

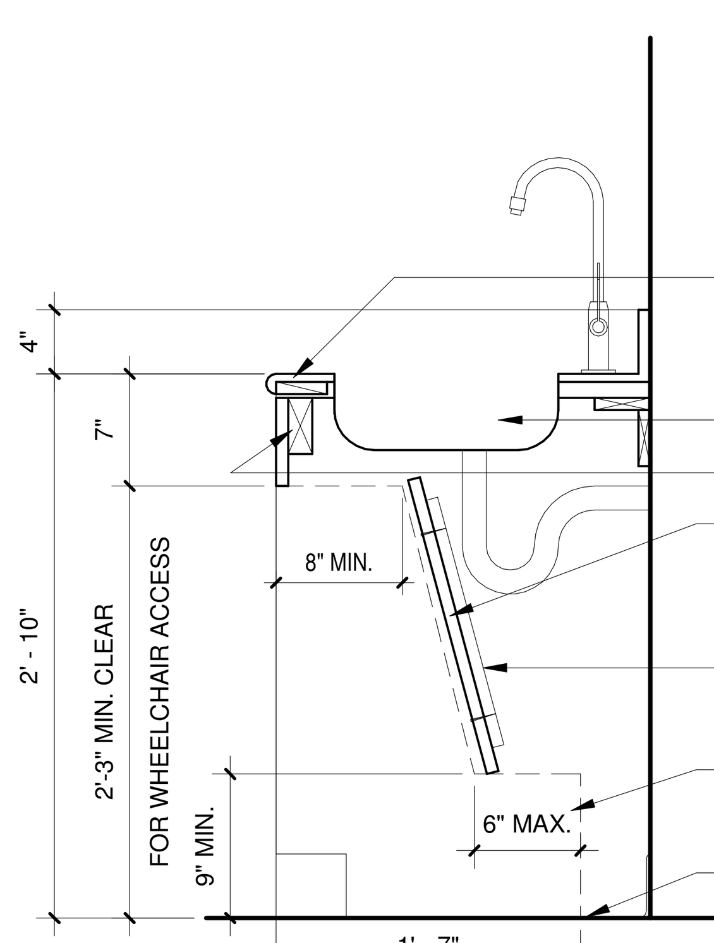
GENERAL DOOR NOTES

1. EXIT DOORS ARE TO BE OPERABLE WITHOUT KEY OR "SPECIAL KNOWLEDGE OR EFFORT".
2. CLOSERS, WHERE REQUIRED ARE TO HAVE OPENING FORCE NOT TO EXCEED 5 LBS. WITH EXCEPTION OF FIRE RATED DOORS WHICH ARE NOT TO EXCEED 15 LBS.
3. THRESHOLDS SHALL NOT BE GREATER THAN 1/2" IN TOTAL HEIGHT WITH THE LEADING EDGE SLOPED AT ANGLE NOT MORE THAN 45 DEGREES SO THAT NO SINGLE VERTICAL CHANGE IS OVER 1/4".
4. THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
5. REFER TO SPECIFICATIONS SECTION 087100 FOR DOOR HARDWARE.
6. REFER TO DETAIL 09/A801 FOR HARDWARE MOUNTING HEIGHTS.
7. GLAZING NOTE:
ALL GLAZING IN HAZARDOUS LOCATIONS IS TO BE SAFETY GLASS PER IBC 2406.1.
8. ALL GLAZING IN DOORS IS TO BE FULLY TEMPERED GLASS.
9. REFER TO 07/A801 FOR TYPICAL FLOOR MOUNTED DOOR STOP DETAIL.
10. REFER TO SHEET 08/A801 FOR FLOOR FINISH TRANSITION DETAILS.



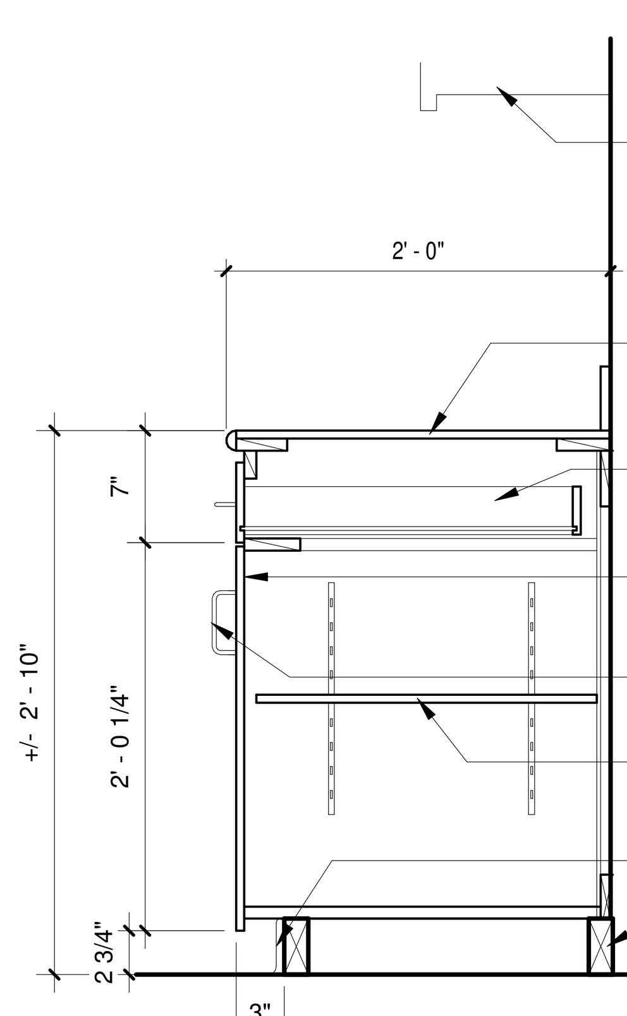
TYPE A	ALUMINUM & GLASS STOREFRONT
PROVIDE AUTOMATIC REMOTE DOOR OPENER, REFER TO FLOOR PLAN FOR LOCATION	

DOOR TYPES 05
1/2" = 1'-0"



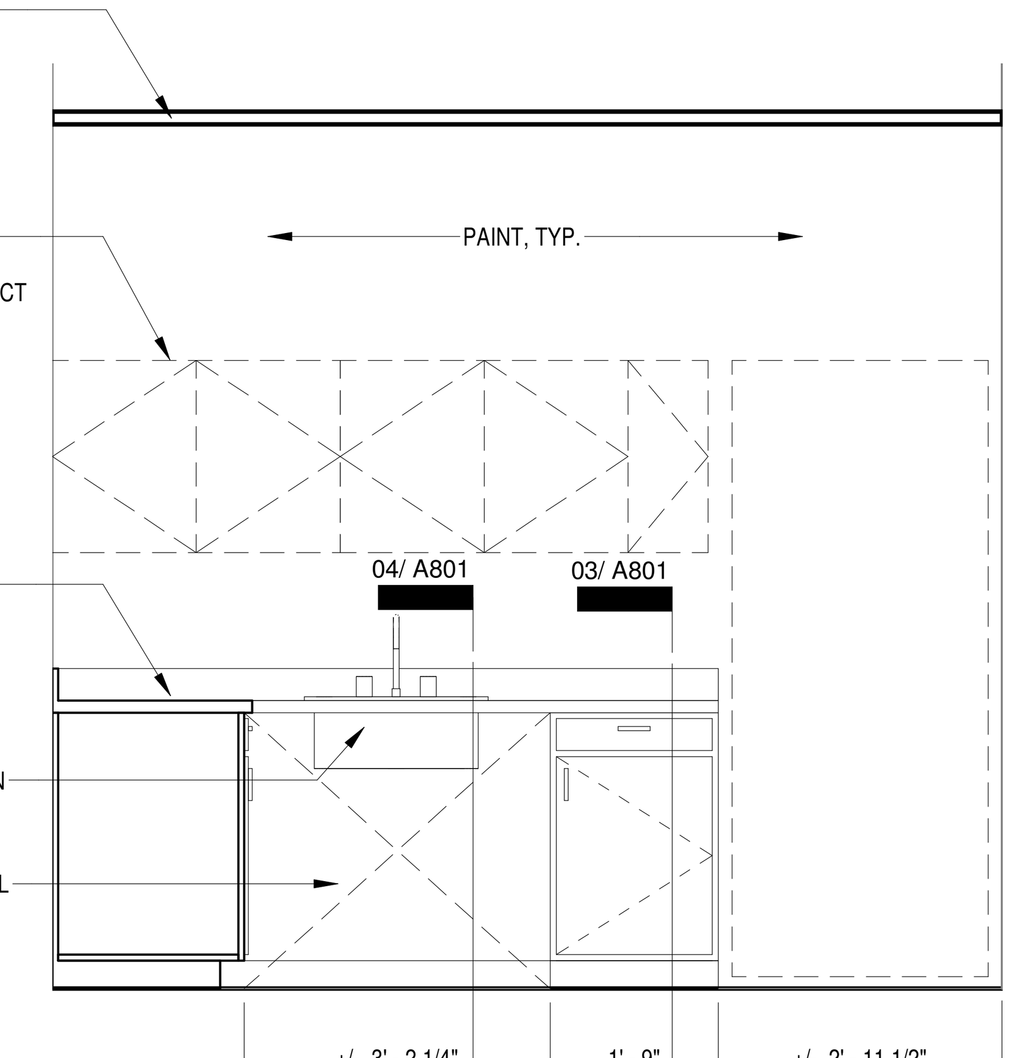
NOTE:
1. CONSTRUCT PER AWI CUSTOM GRADE STANDARDS.
2. ALL EXPOSED EDGES SHALL BE FINISHED
3. REFER TO ELEV. & FIN. SCHEDULED. FOR PLAM SPECS.
4. THERE ARE NO DOORS AT SINK CABINET.

BASE CABINET W/ ACCESSIBLE SINK 04
1" = 1'-0"

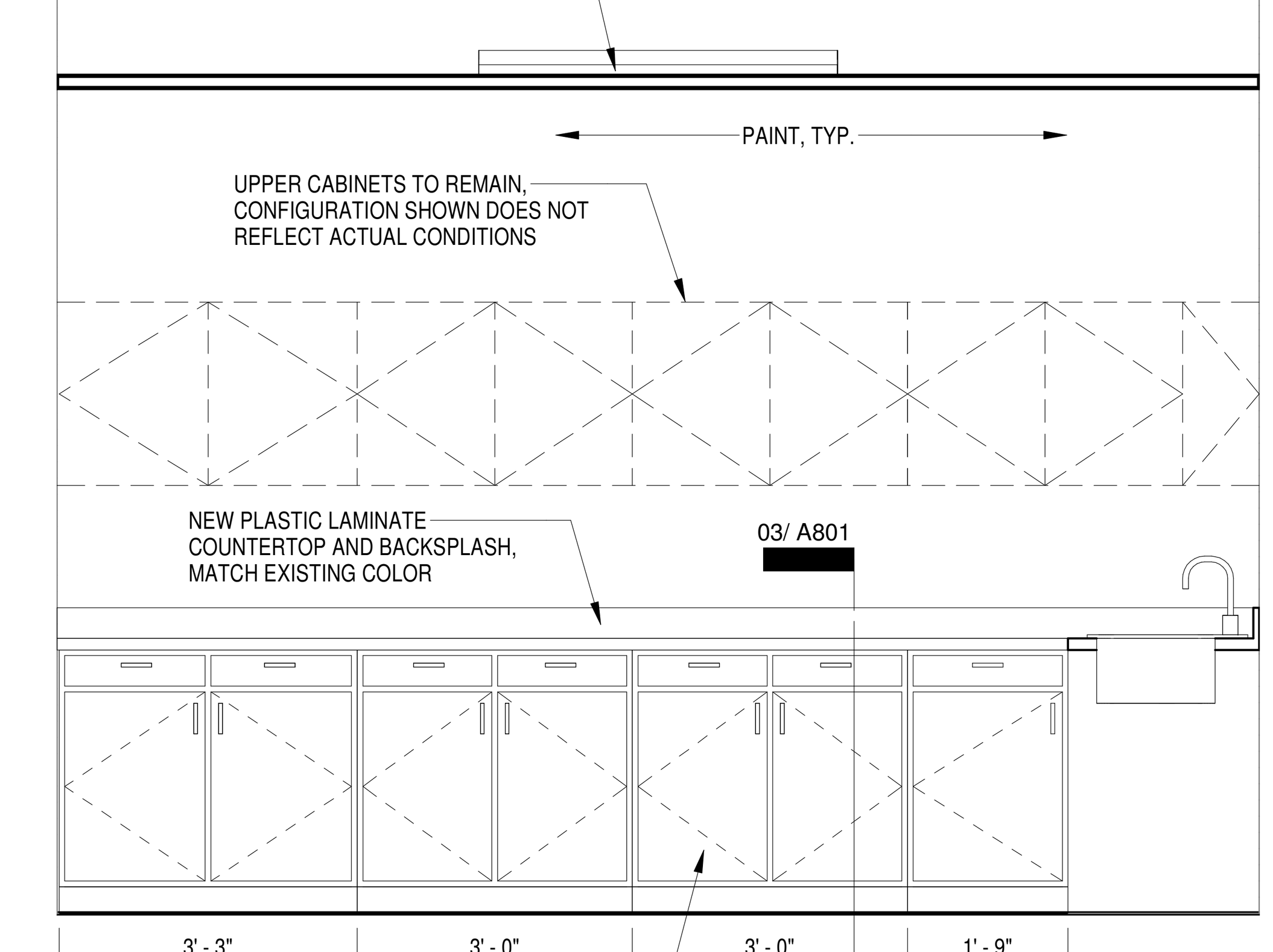


NOTE:
1. CONSTRUCT PER AWI CUSTOM GRADE STANDARDS.
2. ALL EXPOSED EDGES SHALL BE FINISHED.
3. REFER TO ELEV. & FIN. SCHEDULE. FOR PLAM SPECS.

BASE CABINET SECTION 03
1" = 1'-0"



BREAKROOM ELEV. 02 02
1/2" = 1'-0"



BREAKROOM ELEV. 01 01
1/2" = 1'-0"

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
JOE W. MAHLER
09601
STATE OF TEXAS
05/02/2018

PDG ARCHITECTS

CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE:	05/02/18
DESIGNED BY:	RG
DRAWN BY:	HF
REVIEWED BY:	JWB
REVISED:	
REVISED:	

SHEET TITLE
MILLWORK & PARTITION SCHEDULE

SHEET NUMBER
A801
BUILDING "A"

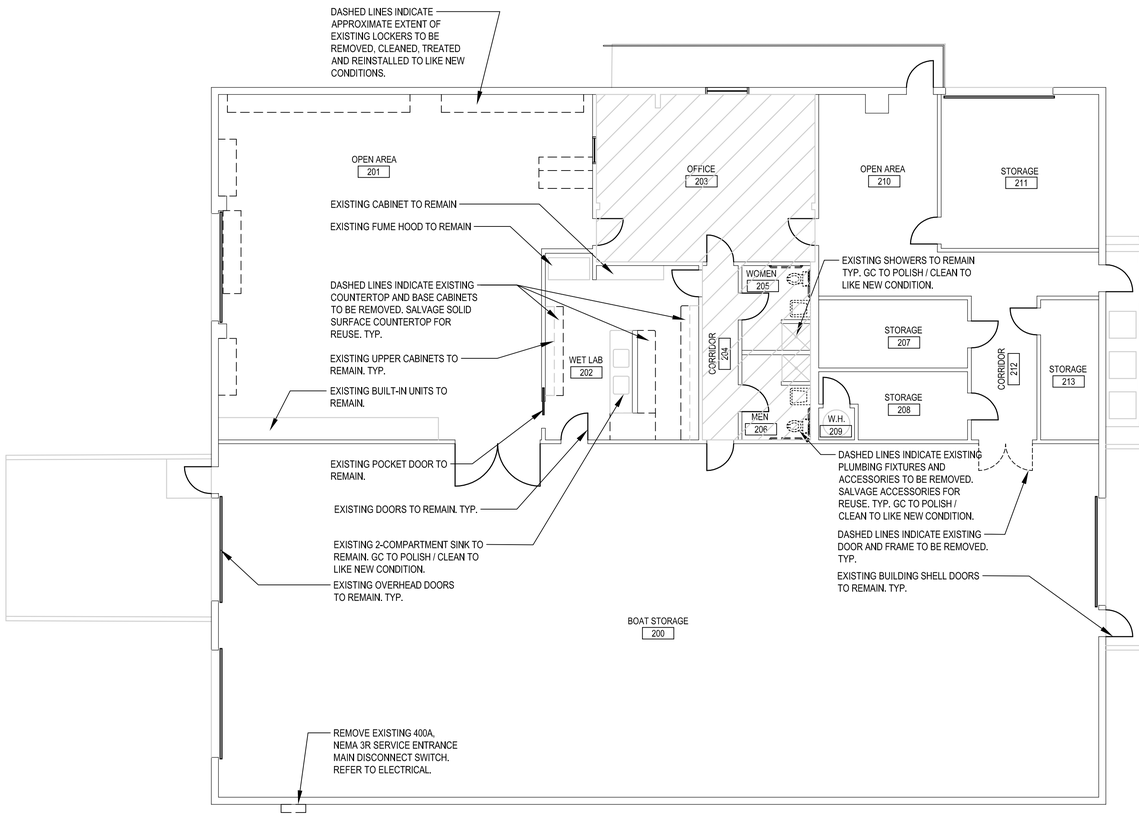
PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

1. REFER TO CONSTR. MANAGER & BUILDING MANAGER FOR DISPOSITION OF SALVAGEABLE MATERIALS.
2. REMOVE INTERIOR PARTITIONS, DOORS, FRAMES, CASEWORK & FIXTURES AS INDICATED ON PLAN.
3. LOCATE, IDENTIFY, STUB-OFF & DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN. PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF THE BUILDING.
4. PROTECT FROM DAMAGE TOP EXISTING ITEMS AND WORK THAT IS TO REMAIN IN PLACE AND BECOMES EXPOSED DURING DEMOLITION.
5. THE CONTRACTOR SHALL PROTECT THE STRUCTURE, ADJACENT SPACES, PARKING AREAS, TO REMAIN FROM DAMAGE DUE TO CONSTRUCTION.
6. PROVIDE TEMPORARY ENCLOSURES TO PREVENT SPREAD OF DUST/DIRT OUTSIDE AREA OF WORK.
7. ANY ITEM WHICH IS DESIGNATED TO REMAIN AND IS LOST OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL INSPECT ALL ITEMS TO REMAIN AND INCLUDE, IN THE BID ANY REPAIRS NEEDED TO ASSURE PROPER WORKING ORDER AND A "LIKE NEW" CONDITION.
9. WHERE PLUMBING FIXTURES & PIPING ARE TO BE REMOVED, REMOVE ALL ASSOCIATED PLUMBING LINES BACK TO NEAREST BLDG. RISER.
12. PROMPTLY REPAIR ADJACENT SURFACES DAMAGED/SOILED BY SELECTIVE DEMOLITION OPERATIONS.
13. REMOVE DEMOLISHED MATERIALS & DEBRIS FROM THE BUILDING IN A MANNER APPROVED BY THE CONSTR. MANAGER. TRANSPORT AND LEGALLY DISPOSE OF MATERIALS OFF SITE.
14. UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT & MATERIALS FROM SITE. REMOVE PROTECTIONS AND LEAVE INTERIOR AREAS BROOM CLEAN
15. REMOVE AND SALVAGE EXISTING CEILING TILE AND GRID AS REQUIRED FOR REMEDIATION OF EXISTING MECHANICAL EQUIPMENT AND DUCTWORK THROUGHOUT AREA OF WORK UNLESS NOTED OTHERWISE.
16. CONTRACTOR TO PROVIDE UNIT PRICING FOR ITEMS LISTED (DATA, OUTLETS, ETC...) IN THE BID FORM UNDER "UNIT PRICES". REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

NOT USED 10

SCALE: N.T.S.

GENERAL DEMOLITION NOTES 09



DEMO FLOOR PLAN NOTES:

1. HATCHED AREA INDICATES EXISTING FLOORING TO BE REMOVED, CLEANED AND PREPARED FOR NEW FLOORING. REF. FINISH SCHEDULE AND ARCHITECTURAL DRAWINGS FOR NEW FINISHES. ALL OTHER AREAS TO BE CLEANED AND RESEALED AS INDICATED ON ARCHITECTURAL FINISH SCHEDULE.
2. GC TO REMOVE EXISTING CEILING GRID, TILE, LIGHTING AND GRILLES IN WET LAB 202, CORRIDOR 204 AND RESTROOMS. SALVAGE GRILLES FOR REUSE. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.
3. GC TO REMOVE, CLEAN, TREAT AND REINSTALL ALL EXISTING LOCKERS TO LIKE NEW CONDITIONS.
4. GC TO EXAMINE EXISTING METAL STUD FRAMING AND TRACKS. REMOVE ALL CORRODED OR DAMAGED SECTIONS.
5. GC TO REMOVE EXTERIOR WALL INSULATION UP TO THE METAL BUILDING'S FIRST GIRT (APPROXIMATELY 7'-0" A.F.F.).

ABATEMENT PLANS ARE INCLUDED IN THE SPECIFICATION MANUAL . CONTRACTOR TO NOTE THAT THE ABATEMENT SCOPE OF WORK IS ONLY LIMITED TO BUILDING "B". GC TO INCLUDE COST OF REMEDIATION AND DISPOSAL OF DEBRIS IN PROPOSAL. OWNER (TPWD) WILL PROVIDE THIRD PARTY MONITORING AND TESTING OF ABATEMENT WORK. NO SELECTIVE DEMO OR REMODEL WORK IS ALLOWED TO BEGIN IN BLDG. B UNTIL ENVIRONMENTAL TESTING CERTIFIES BUILDING REMEDIATION IS COMPLETE.

NOT USED 04

PLAN NORTH TRUE NORTH

0 SCALE: 8'-0"
1/8" = 1'-0"

DEMOLITION PLAN 01

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT JOSE W. MANRIQUEZ 09601 STATE OF TEXAS
05/02/18

PDG ARCHITECTS

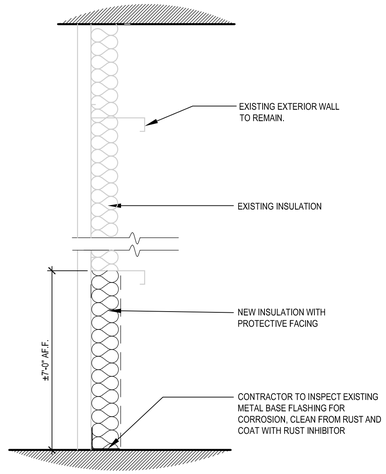
CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-01-2018
DESIGN BY: RG
DRAWN BY: HF
REVIEW BY: JWB
REVISED:
REVISED:
REVISED:

SHEET TITLE
DEMO PLAN

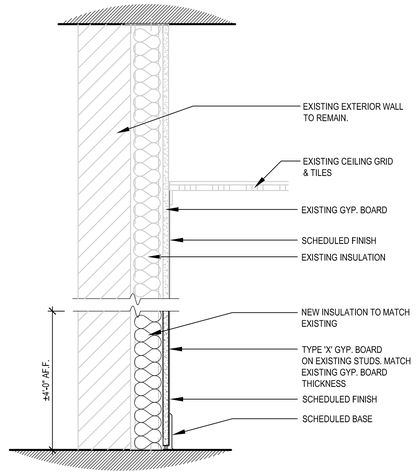
SHEET NUMBER
D101-B
BUILDING "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



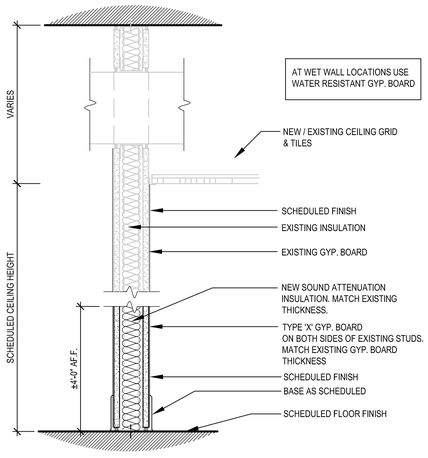
0 SCALE: 8"
1-1/2" = 1'-0"

WALL TYPE "D" 12



0 SCALE: 8"
1-1/2" = 1'-0"

WALL TYPE "C" 11



0 SCALE: 8"
1-1/2" = 1'-0"

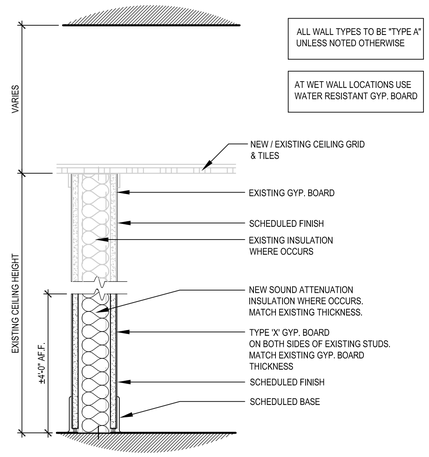
WALL TYPE "B" 10

FLOOR PLAN NOTES:

1. GC TO CLEAN EXTERIOR SURFACES OF ANY WINDBLOWN DEBRIS, MUD OR SILT.
2. GC TO TREAT FOR MOLD IN ENTIRE BUILDING.
3. GC TO TEXTURE AND FLOAT ALL WALLS 4'-0" A.F.F. THROUGHOUT AREA OF WORK.
4. GC TO PAINT WALLS TO CEILING THROUGHOUT AREA OF WORK UNLESS NOTED OTHERWISE.
5. ALL GYP. BOARD TO BE "TYPE X". AT WET WALL LOCATIONS USE WATER RESISTANT GYP. BOARD ON EACH SIDE OF WALL.
6. GC TO MATCH THICKNESS OF NEW GYP BOARD TO THICKNESS OF EXISTING GYP BOARD ON WALL.
7. GC TO PROVIDE NEW BASE THROUGHOUT ENTIRE BUILDING UNLESS NOTED OTHERWISE.
8. CONTRACTOR TO PROVIDE ADEQUATE BLOCKING FOR ALL MILLWORK AND ACCESSORIES.
9. GC TO POLISH / CLEAN TO LIKE NEW CONDITIONS AND REINSTALL ALL EXISTING LOCKERS.
10. GC TO EXAMINE EXISTING METAL STUD FRAMING AND TRACKS. REPLACE ALL CORRODED OR DAMAGED METAL STUD FRAMING AND TRACKS AS REQUIRED.
11. GC TO PROVIDE AND INSTALL NEW HOLLOW METAL DOORS AND FRAMES AS INDICATED. REFER TO DOOR SCHEDULE.
12. GC TO POLISH / CLEAN TO LIKE NEW CONDITIONS AND REINSTALL ALL BATHROOM ACCESSORIES THAT WERE REMOVED DURING DEMOLITION.
13. GC TO REPLACE INTERIOR WALL INSULATION APPROXIMATELY 4'-0" A.F.F. WHERE OCCURS WITH LIKE MATERIALS UNLESS NOTED OTHERWISE.
14. GC TO REPLACE EXTERIOR WALL INSULATION UP TO THE METAL BUILDING'S FIRST GIRT WITH LIKE MATERIALS (APPROXIMATELY 7'-0" A.F.F.).
15. REFER TO FINISH SCHEDULE FOR LOCATION OF NEW FINISHES.
16. GC TO REINSTALL CEILING TILE AND GRID REMOVED DURING REMEDIATION OF MECHANICAL EQUIPMENT AND DUCTWORK. ANY ITEM WHICH IS LOST OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE GC AT NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR TO PROVIDE UNIT PRICING FOR ITEMS LISTED (DATA, OUTLETS, ETC...) IN THE BID FORM UNDER "UNIT PRICES". REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

SCALE:
N.T.S.

GENERAL PLAN NOTES 09



0 SCALE: 8"
1-1/2" = 1'-0"

WALL TYPE "A" 08

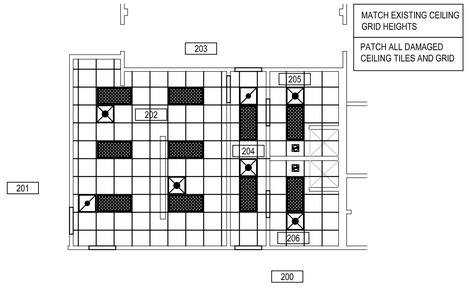
NEW MOISTURE RESISTANT 2' x 2' LAY-IN CEILING

NEW 2' X 4' LIGHT FIXTURE RE: ELECTRICAL

RELOCATED / NEW EXHAUST FAN. REF. MECHANICAL

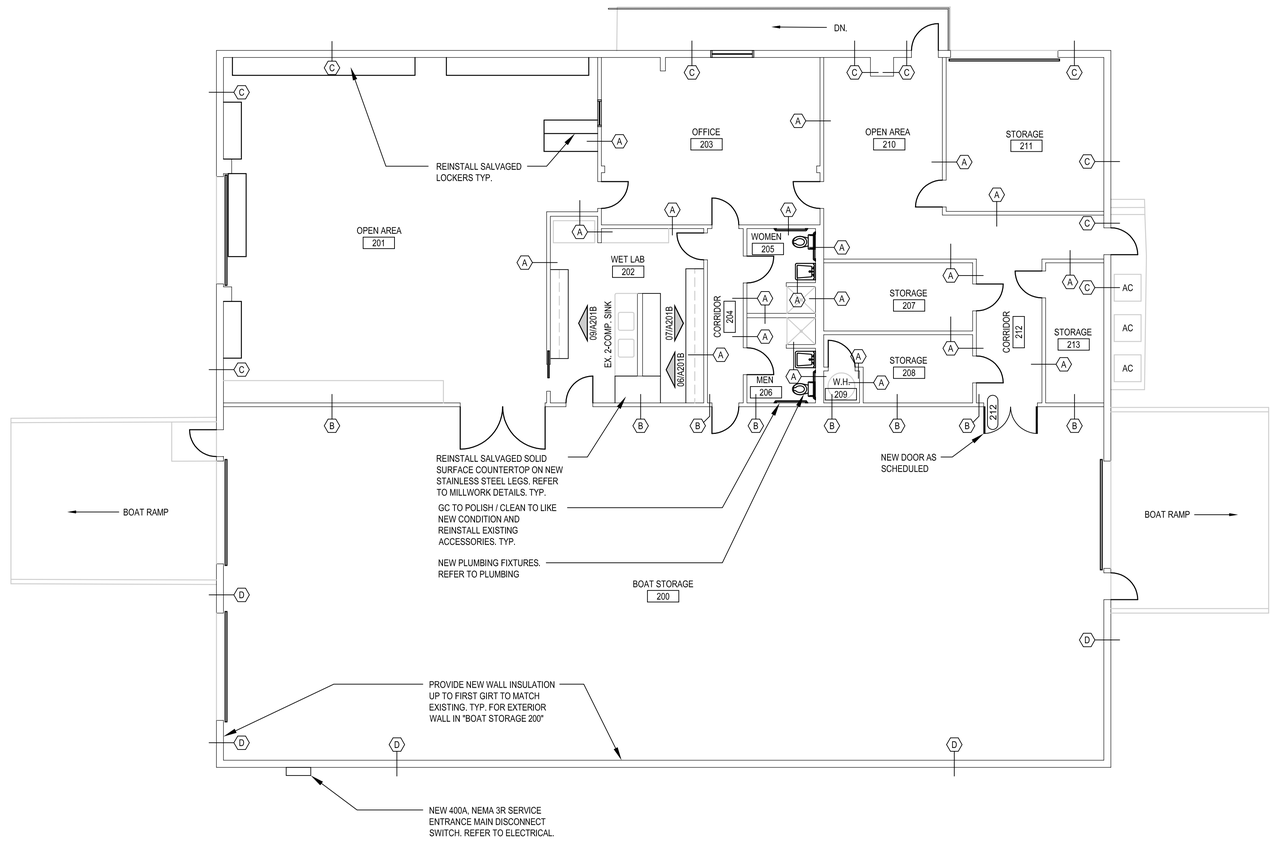
RELOCATED / NEW SUPPLY AIR DIFFUSER. REF. MECHANICAL

RELOCATED / NEW RETURN AIR INLET. REF. MECHANICAL



0 SCALE: 8'-0"
1/8" = 1'-0"

REFLECTED CEILING PLAN 04



ABATEMENT PLANS ARE INCLUDED IN THE SPECIFICATION MANUAL . CONTRACTOR TO NOTE THAT THE ABATEMENT SCOPE OF WORK IS ONLY LIMITED TO BUILDING "B". GC TO INCLUDE COST OF REMEDIATION AND DISPOSAL OF DEBRIS IN PROPOSAL. OWNER (TPWD) WILL PROVIDE THIRD PARTY MONITORING AND TESTING OF ABATEMENT WORK. NO SELECTIVE DEMO OR REMODEL WORK IS ALLOWED TO BEGIN IN BLDG. B UNTIL ENVIRONMENTAL TESTING CERTIFIES BUILDING REMEDIATION IS COMPLETE.

PLAN NORTH TRUE NORTH

0 SCALE: 8'-0"
1/8" = 1'-0"

FLOOR PLAN 01

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT JOSE W. MANRIQUE 09601 STATE OF TEXAS
05/02/18

PDG ARCHITECTS

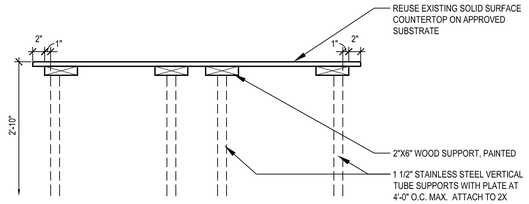
CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-01-2018
DESIGN BY: RG
DRAWN BY: HF
REVIEW BY: JWB
REVISED:
REVISED:
REVISED:

SHEET TITLE
FLOOR PLAN AND RCP

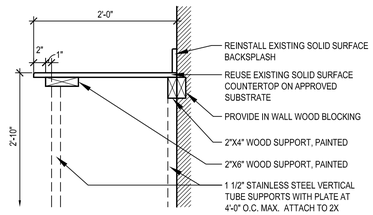
SHEET NUMBER
A101-B
BUILDING "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



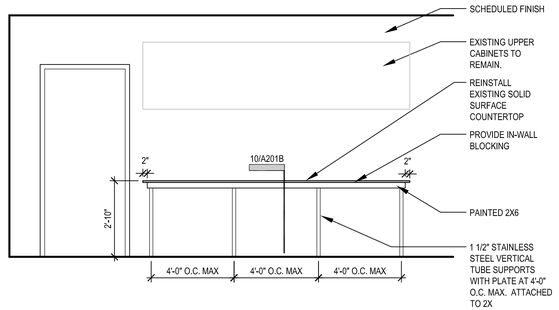
0 SCALE: 1'-0"
1" = 1'-0"

SECTION AT LAB COUNTER 11



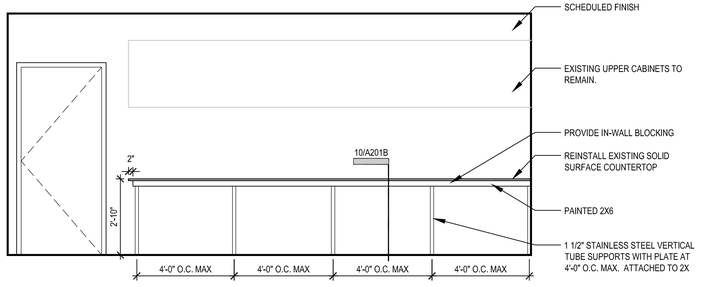
0 SCALE: 1'-0"
1" = 1'-0"

SECTION AT LAB COUNTER 10



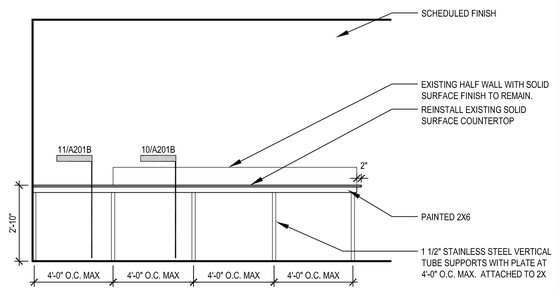
0 SCALE: 2'-8"
3/8" = 1'-0"

ELEVATION AT LAB MILLWORK 09



0 SCALE: 2'-8"
3/8" = 1'-0"

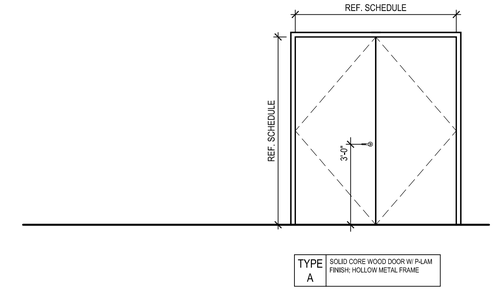
ELEVATION AT LAB MILLWORK 07



0 SCALE: 2'-8"
3/8" = 1'-0"

ELEVATION AT LAB MILLWORK 06

GENERAL NOTES:
- DOOR FABRICATOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWINGS.
- DOOR HARDWARE PER SCHEDULE.
-VERIFY DIRECTION OF DOOR SWING ON FLOOR PLAN.



TYPE	
A	SOLID CORE WOOD DOOR W/ P-LAM FINISH; HOLLOW METAL FRAME

0 SCALE: 2'-8"
3/8" = 1'-0"

DOOR TYPES 05

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING MATERIAL	CEILING HEIGHT	REMARKS
200	BOAT STORAGE	SC	B-1	P-1	-	-	-	EXIST	EXIST	PAINT PLAN NORTH WALL 8'-0" A.F.F.
201	OPEN AREA	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
202	WET LAB	SC	B-1	P-1	P-1	P-1	P-1	C-1	MATCH	
203	OFFICE	F-1	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
204	CORRIDOR	F-1	B-1	P-1	P-1	P-1	P-1	C-1	MATCH	
205	WOMEN	F-1	B-1	P-1	P-1	P-1	P-1	C-1	MATCH	
206	MEN	F-1	B-1	P-1	P-1	P-1	P-1	C-1	MATCH	
207	STORAGE	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
208	STORAGE	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
209	WATER HEATER	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
210	OPEN AREA	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
211	STORAGE	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
212	CORRIDOR	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	
213	CORRIDOR	SC	B-1	P-1	P-1	P-1	P-1	EXIST	EXIST	

ABBREVIATIONS
F-1 = LVT
B-1 = 4" BLACK / BROWN ROPPE RUBBER BASE
P-1 = PAINT
C-1 = WATER RESISTANT CEILING TILE
SC = RESEAL CONCRETE FLOOR
EXIST = EXISTING TO REMAIN

FINISH NOTES:
1. ALL GYP. BD. TO BE FINISHED TO LEVEL 4
2. ALL COLORS SHALL BE SELECTED BY OWNER
3. PAINT ALL WALLS, CORNER TO CORNER, FLOOR TO CEILING, TYP.

0 SCALE: 2'-0"
1/2" = 1'-0"

FINISH SCHEDULE 03

DOOR AND HARDWARE SCHEDULE		DOOR				FRAME		HARD-WARE	REMARKS
DOOR	LOCATION	SIZE (W x H)	TYPE	MAT.	FINISH	MAT.	FINISH		
212	CORRIDOR	PAIR 3'-0" x 9'-0"	A	S.C	PLAM	H.M.	PAINT	EXIST	MATCH EXISTING FINISHES

* ALL DOORS MARKED "EXIST" ON PLAN ARE EXISTING TO REMAIN. SEE NOTE #4 BELOW.

GENERAL DOOR NOTES:
1. BUILDING STANDARD DOOR HARDWARE TO BE USED ON ALL DOORS
2. ENTRY/EXIT DOORS ARE TO BE OPERABLE WITHOUT KEY OR "SPECIAL KNOWLEDGE OR EFFORT" PER CITY OF HOUSTON BUILDING CODE. ENSURE EXISTING HARDWARE COMPLIES WITH IBC 2012 EXIT REQUIREMENTS
3. FOR ALL EXISTING DOORS, THE CONTRACTOR IS TO INSPECT THEM & MAKE ANY REPAIRS OR ADJUSTMENTS REQUIRED TO ASSURE WORKING ORDER.
4. CLOSERS, WHERE REQUIRED ARE TO HAVE OPENING FORCE NOT TO EXCEED 5 LBS. WITH EXCEPTION OF FIRE RATED DOORS WHICH ARE NOT TO EXCEED 15 LBS.
5. THRESHOLDS SHALL NOT BE GREATER THAN 1/2" IN TOTAL HEIGHT WITH THE LEADING EDGE SLOPED AT ANGLE NOT MORE THAN 45 DEGREES SO THAT NO SINGLE VERTICAL CHANGE IS OVER 1/4".
6. THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

ABBREVIATIONS
HM - HOLLOW METAL
PAINT - PAINTED
ANOD - ANODIZE
S.C. - SOLID CORE

HARDWARE SET #1

ITEM
(2) 1 1/2 PR. HINGES
PASSAGE SET
WEATHERSTRIP
(2) DOOR STOP
SILENCERS
HOLD OPEN
KICKPLATE
COORDINATORS

0 SCALE: 2'-0"
1/2" = 1'-0"

DOOR SCHEDULE 01

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT JOSE W. MARIN 09601 STATE OF TEXAS
05/02/18

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-01-2018
DESIGN BY: RG
DRAWN BY: HF
REVIEW BY: JWB
REVISED:
REVISED:
REVISED:

SHEET TITLE
SCHEDULES AND DETAILS

SHEET NUMBER
A201-B
BUILDING "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

1. STRUCTURAL ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	ELEC	ELECTRICAL	PLF	POUNDS PER LINEAR FOOT
		ELEV	ELEVATOR	PLUMB	PLUMBING
ACI	AMERICAN CONCRETE INSTITUTE	EQ	EQUAL(LY)	PROJ	PROJECTION
		EW	EACH WAY	PSI	POUNDS PER SQUARE INCH
ADDL	ADDITIONAL	EXIST	EXIST	PSF	POUNDS PER SQUARE FOOT
ADJ	ADJACENT	EXP	EXPANSION	R	RIGHT, RISER, RADIUS
AISC	AMERICAN INSTITUTE OF STEEL CONTSTRUCTION	FD	FLOOR DRAIN	RD	ROOF DRAIN
		F.F.E.	FINISH FLOOR ELEVATION	RE	REFER
AISI	AMERICAN IRON AND STEEL INSTITUTE	FND	FOUNDATION	REF	REFERENCE
		FS	FAR SIDE	REINF	REINFORCEMENT (D), (ING), (MENT)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	FT	FEET, FOOT	REQD	REQUIRED
		FTG	FOOTING	REV	REVISION
APPROX	APPROXIMATE(LY)	GA	GAUGE	RH	RIGHT HAND
AR	ANCHOR ROD	GALV	GALAVNIZED	RO	ROUGH OPENING
ARCH	ARCHITECTURAL	GB	GRADE BEAM	S	SOUTH, SLAB
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HORIZ	HORIZONTAL	SCHED	SCHEDULE(D)
		HP	HIGH POINT	SDI	STEEL DECK INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	HR	HOUR	SECT	SECTION
		HSS	HOLLOW STRUCTURAL SECTION	SF	SQUARE FEET
AWS	AMERICAN WELDING SOCIETY	ID	INSIDE DIAMETER	SHT	SHEET
BM	BEAM (MILD REINFORCE)	IN	INCHES	SIM	SIMILAR
BC	BOTTOM CHORD	JT	JOINT	SJI	STEEL JOIST INSTITUTE
BLDG	BUILDING	K	KIPS, JOIST SERIES	SL	SLOPE
BOD	BOTTOM OF DECK	KB	KNEE BRACE	SPA	SPACE
BOT	BOTTOM	L	SPAN, LEFT, STEEL ANGLE	SPEC(S)	SPECIFICATION(S)
BT	BASE PLATE	Ld	DEVELOPMENT LENGTH	SQ	SQUARE
BRG	BEARING	LG	LENGTH, LONG	STD	STANDARD
BPL	BENT PLATE			STIF	STIFFENER
BS	BOTH SIDES	LH	LEFT HAND	STIR	STIRRUP
C	CHANNEL, COMPRESSION	LL	LIVE LOAD	STL	STEEL
CAMB	CAMBER	LLBB	LONG LEG BACK TO BACK	STR	STRUCTURAL
CIP	CAST IN PLACE	LLH	LONG LEG HORIZONTAL	T	TOP, TENSION
CL	CENTER LINE	LLV	LONG LEG VERTICAL	T & B	TOP & BOTTOM
CLR	CLEAR	LP	LOW POINT	T & G	TONGUE AND GROOVE
COL	COLUMN	LW	LONG WAY	TEMP	TEMPERATURE
CONC	CONCRETE	MATL	MATERIAL	THK	THICK(NESS)
CONT	CONTINUOUS	MAX	MAXIMUM	TOC	TOP OF CONCRETE
CPL	CAP PLATE	MC	MOMENT CONNECTION, MISC CHANNEL	TOF	TOP OF FOOTING
CS	CARBON STEEL			TOL	TOP OF LEDGE
CSJ	CONSTRUCTION JOINT	MECH	MECHANICAL	TOP	TOP OF PANEL
CTJ	CONTROL JOINT	MFG(S)	MANUFACTURER(S)	TOS	TOP OF STEEL
D	DEPTH	MID	MIDDLE	TOT	TOTAL
DET	DEPAIL	MISC	MISCELLENEOUS	TOW	TOP OF WALL
DF	DRILLED FOOTING	ML	MATCH LINE	TRD(S)	TREAD(S)
DIA	DIAMETER	MO	MASONRY OPENING	TOJ	TOP OF JOIST
DIAG	DIAGONAL	MS	MILD STEEL	TYP	TYPICAL
DIM	DIMENSION	MT	STRUCTURAL TEE CUT FROM MISC STEEL	UL	UNDERWRITERS LABORATORY
DL	DEAD LOAD	NORTH	NORTH	UNF	UNIFORM
DN	DOWN	NIC	NOT IN CONTRACT	UON	UNLESS OTHERWISE NOTED
DO	DITTO	NO.	NUMBER	V	BEAM END SHEAR
DWG	DRAWING	NOM	NOMINAL	VB	VERTICAL BRACE
DWL	DOWEL	NTS	NOT TO SCALE	VERT	VERTICAL
E	EAST	OC	ON CENTER	W	WALL, EST, WIDTH, WIDE FLANGE
EA	EACH	OD	OUTSIDE DIAMETER	W/	WITH
EF	EACH FACE	OPNG	OPENING	WL	WIND LOAD, WATER LEVEL, WORKING LINE
EJ	EXPANSION JOINT	OPP	OPPOSITE		
EL	ELEVATION	PL	PLATE	WP	WATER PROOF, WORKING POINT

2. STRUCTURAL LEGEND

P1	PRECAST CONCRETE PANEL	BEAM	CONNECTED TO A ROLLED SHAPE COLUMN WITH A STANDARD WELDED MOMENT CONNECTION STANDARD AISC ROLLED SHAPE BEAM
F1	SPREAD FOOTING MARK	10K1	STANDARD 'K' SERIES JOIST
P1	PLINTH MARK		STEEL ANGLE BACK TO BACK
C1	COLUMN MARK		STANDARD ROLLD CHANNEL
CF1	CONTINUOUS WALL FOOTING MARK		HOLLOW STRUCTURAL SECTION
BW1	BASEMENT WALL MARK		STANDARD STEEL PIPE
RW1	RETAINING WALL MARK	Ø	DIAMETER
[BP1]	BASE PLATE MARK	#	NUMBER (BAR SIZE)
A	STRUCTURAL STEEL COLUMN SPLICE TYPE		SQUARE
24/24	STRAIGHT SHAFT DRILLED PIER/FOOTING	6"	SLAB DEPRESSION AND AMOUNT
B1 GB1 1B1	MILD REINFORCED CONCRETE BEAM MARK	DATUM RE: PLAN	ELEVATION FROM DATUM
J1	MILD REINFORCED CONCRETE JOIST MARK	DIM	DIMENSION TO FACE, COLUMN GRID OR CENTER LINE
S1	SPAN DIRECTION OF A MILD REINFORCED CONCRETE SLAB WITH MAIN REINFORCING MARK S1	45°	ANGLE IN DEGRESS, MINUTES AND SECONDS
DECK TYPE 1	SPAN DIRECTION OF 5 1/2" THICK CONCRETE SLAB W/ TYPE 1 STEEL DECK	1	REVISION MARK
DECK TYPE 2	SPAN DIRECTION OF A BARE STEEL DECK TYPE 2 WITH NO CONCRETE TOPPING	1 S101	SECTION OR DETAIL REFERENCE (DRAWN AS DETAIL 1 ON SHEET S101)
20K7SP V=5K	SPECIAL OPEN WEB STEEL JOIST, K SERIES WITH 5 KIPS END SHEAR		
W27X84 <24'-0">	STANDARD AISC ROLLED SHAPE OF W27X84 AT ELEVATION 24'-0" FROM DATUM	1 S101	SECTION OR DETAIL REFERENCE (DRAWN AS DETAIL 1 ON SHEET S101)
W27X84 c=1"	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 1" UPWARD CAMBER		
W27X84 c=1" 20K 20K	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 20 KIPS BEAM END SHEAR		
W27X84 (10)	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 10 HEADED SHEAR CONNECTORS EQUALLY SPACED	2 B	BUILDING GRID LINES "2" AND "B"
W27X84 (10, 6, 12) BEAM BEAM	STANDARD AISC ROLLED SHAPE OF W27X84 WITH 28 HEADED SHEAR CONNECTORS EQUALLY SPACED FROM LEFT TO RIGHT AS 10 CONNECTORS / 6 CONNECTORS / 12 CONNECTORS		

3. STRUCTURAL CONCEPT, STANDARDS AND LOADS

A. DESIGN CONCEPT:

THE STRUCTURE AS SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND DESIGN STANDARDS TO SUPPORT THE FINAL BUILDING SERVICE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SUPPORTS FOR THE STRUCTURE IF NECESSITATED BY THE CONSTRUCTION SEQUENCE OR METHODS OF FABRICATION, HANDLING, ERECTION, AND OTHER CONSTRUCTION OPERATIONS.

B. BUILDING CODES AND DESIGN STANDARDS:

1. INTERNATIONAL BUILDING CODE, 2012 EDITION.

2. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE); MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10, AS AMENDED.

3. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, AS AMENDED.

4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 13TH EDITION (ASD), 2005, AS AMENDED.

5. AMERICAN WELDING SOCIETY (AWS).

6. STEEL JOIST INSTITUTE (SJI), STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS.

7. STEEL DECK INSTITUTE (SDI), DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION.

8. AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

C. GRAVITY LOADS:

SUPERIMPOSED LOADS ARE GIVEN IN POUNDS PER SQUARE FOOT (PSF).

BUILDING AREA	DEAD LOAD (PSF)	LIVE LOAD (PSF)
1. SLAB ON GRADE	0	100

*INCLUDES AN ALLOWANCE OF 15 PSF FOR PARTITION WEIGHT
**EQUIPMENT WEIGHT IF LARGER

D. LATERAL DESIGN LOADS:

1. WIND LOADS FOR AN ULTIMATE WIND SPEED OF 144 MPH 3-SECOND GUST, WITH EXPOSURE C AND AN RISK CATEGORY II (ASCE 7-10 METHOD)

E. SEISMIC CRITERIA:

1. SITE CLASS VERY DENSE SOIL AND SOFT ROCK

2. SEISMIC DESIGN: CATEGORY B

F. GROUND SNOW LOADS: 5 PSF

G. SPECIAL LOADS:

1. STAIR TREADS, RAILING AND GUARDRAILS:

ITEM	REQUIRED CAPACITY
HAND RAILS	200 POUNDS ANY DIRECTION

4. GENERAL NOTES FOR CONSTRUCTION

A. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.

B. ALL PROPOSED SUBSTITUTIONS MUST BE EQUAL OR BETTER AND SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO ANY PERTINENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.

C. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN IN THE STRUCTURAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS AND OTHER PROJECT REQUIREMENTS. FLOOR PLAN WILL BE FURNISHED FOR THAT PURPOSE.

D. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED IN REINFORCED CONCRETE BEAMS, SLABS AND WALLS.

E. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DETAILING ALL THE OPENINGS, INCLUDING ADDED REINFORCEMENT AS SHOWN ON THE TYPICAL WALL, SLAB AND BEAM OPENING DETAILS FOR REVIEW.

F. ADDITIONAL REINFORCEMENT ABOVE THAT SHOWN IN THE TYPICAL SLAB AND BEAM OPENING DETAILS MAY BE REQUIRED AND WILL BE REVIEWED ON THE SHOP DRAWINGS.

G. USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR THE EQUIPMENT ANCHORAGE AND DETAILS.

H. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.

I. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

J. ALL CONSTRUCTION AND CONTROL JOINTS FOR BEAMS WHICH ARE EXPOSED TO VIEW ARE TO BE LOCATED TO COINCIDE WITH THE ARCHITECTURAL RUSTICATION JOINTS AS SHOWN ON THE BUILDING ELEVATION SHEETS OR AS REVIEWED IN WRITING.

K. SHOP DRAWINGS:

1. THE TERM "SHOP DRAWINGS" INCLUDES FABRICATION, MANUFACTURING, ERECTION AND SETTING DRAWINGS, BROCHURES, CERTIFICATES, AND PRODUCT DATA DESCRIBING MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE ALL PERTINENT INFORMATION REQUIRED FOR THE ENGINEER TO FULLY EVALUATE THE MATERIALS BEING REPRESENTED BY THE SUBMITTAL INCLUDING THE PHYSICAL PROPERTIES, DIMENSIONS, LOCATIONS AND METHOD OF INSTALLATION.

2. SHOP DRAWINGS WILL BEAR THE REVIEW STAMP OF THE CONTRACTOR INDICATING THAT HE HAS REVIEWED THE DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; COORDINATED ITEMS INCLUDED IN THE SUBMITTAL WITH RELATED ITEMS; AND VERIFIED AND COORDINATED DIMENSIONS.

3. REPRODUCTIONS OF THE ENGINEERING DRAWINGS WILL NOT BE ACCEPTABLE AS SHOP DRAWINGS.

4. ANY SHOP DRAWING NOT CONFORMING TO THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION AND WILL BE RETURNED WITHOUT ANY FURTHER ACTION.

5. CONCRETE

A. CONCRETE SCHEDULE:

BUILDING COMPONENT	28 DAY CYLINDER COMPRESSIVE STRENGTH POUNDS PER SQUARE INCH(PSI)					
	NORMAL WEIGHT			MAX AGGREGATE SIZE (IN)	SLUMP (IN)	W/C RATIO
	3000	3500	4000			
1. DRILLED PIERS	●			1 1/2"	5-7	0.55
2. SLAB-ON-GRADE		●		1"	4-6	0.50
3. GRADE BEAMS AND PLINTHS		●		1"	4-6	0.50
4. ALL OTHER CONCRETE	●			1"	4-6	0.52

B. PROVIDE DEFORMED NEW BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE; PROVIDE ADDITIONAL BARS OR STIRRUPS FOR SUPPORT AS REQUIRED.

C. WELDED WIRE FABRIC SHALL CONSIST OF FLAT SHEETS AND SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65.0 KSI

D. PROVIDE FULL EMBEDMENT WITH STANDARD 90 DEGREE HOOKS FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, THE DOWEL SIZE AND SPACING SHALL BE THE SAME AS THE MAIN REINFORCING.

E. WHEN REINFORCING STEEL IN GRADE BEAMS, WALLS, SLABS AND BEAMS, IS NOTED AS CONTINUOUS, SPLICE REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 4'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE.
LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS OR BETWEEN SUPPORTS AND 1/3 SPAN POINT, UNLESS NOTED OTHERWISE ON PLANS, DETAILS OR SCHEDULES.

F. PROVIDE INTERIOR AND EXTERIOR HORIZONTAL LAPPED CORNER BARS AT ALL CORNERS TO MATCH THE SIZE, TYPE AND SPACING OF THE WALL AND GRADE BEAM HORIZONTAL REINFORCING.

G. UNLESS SPECIFICALLY NOTED, SCHEDULED OR DETAILED OTHERWISE, PROVIDE DEVELOPMENT LENGTH FOR REINFORCING IN CONCRETE COMPONENTS IN ACCORDANCE WITH THE SCHEDULE IN NOTE G. BELOW. THIS SCHEDULE SHALL APPLY TO ALL DEVELOPMENT LENGTHS NOT OTHERWISE NOTED, DETAILED OR SCHEDULED IN THE DRAWINGS OR SPECIFICATIONS.

H. REINFORCING BAR DEVELOPMENT LENGTHS (Ld) IN INCHES FOR VARIOUS CONCRETE STRENGTHS IN POUNDS PER SQUARE INCH (PSI). TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING SO PLACED IN A MEMBER THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE BAR. ALL OTHER CONDITIONS ARE CONSIDERED BOTTOM BARS FOR DEVELOPMENT AND SPLICE LENGTH PURPOSES.

BAR SIZE GRADE 60	Ld FOR TOP BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)				Ld FOR BOTTOM BARS 28 DAY CYLINDER CONCRETE STRENGTH (PSI)			
	3000	4000	5000	6000	3000	4000	5000	6000
#3	22	19	17	16	17	15	13	12
#4	29	25	23	21	22	19	17	16
#5	36	31	28	26	28	24	22	20
#6	43	37	34	31	33	29	26	24
#7	63	54	49	45	48	42	38	34
#8	72	62	56	51	55	48	43	39
#9	81	70	62	57	62	54	48	44
#10	89	78	69	63	69	60	53	49
#11	98	85	76	70	76	66	59	54

I. PROVIDE LAP SPLICE LENGTHS FOR REINFORCING BARS 1.3 TIMES THE Ld NOTED IN NOTE H ABOVE.

1. WHEN TWO BARS OF DIFFERENT SIZES ARE LAPPED, THE SMALLER SIZE SHALL GOVERN THE LAP LENGTH UNLESS SPECIFICALLY NOTED.

2. WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH MAY BE USED IN LIEU OF THE LAPS. SUCH SPLICES MAY BE EITHER FULL BUTT WELDS OR SERIES "C CADWELDS OR EQUAL."

K. THE GENERAL NOTES, LAP LENGTHS OR DETAILS PERTAINING TO REINFORCING STEEL AS SHOWN ON THE DETAIL SHEETS OR OTHER SCHEDULES SHALL SUPERSEDE THE NOTES SHOWN ON THIS SHEET.

L. PROVIDE THE FOLLOWING COVER FOR CAST-IN-PLACE CONCRETE REINFORCING.

1. UNFORMED SURFACES IN CONTACT WITH EARTH: 3 INCHES

2. UNFORMED SURFACES OVER MOISTURE BARRIER: 2 INCHES

3. FORMED SURFACES EXPOSED TO EARTH OR WEATHER

a. #6 AND LARGER: 2 INCHES
b. #5 AND SMALLER: 1 1/2" INCHES

4. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER

a. SLABS AND WALLS: 3/4 INCHES
b. BEAMS AND COLUMNS 1 1/2 INCHES

6. EXCAVATION, BACKFILLING & FOUNDATIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY ARM SOIL TESTING LLC. DATED SEPTEMBER 6, 2016 REPORT NO. G16-416 IS AVAILABLE FOR REVIEW.

B. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION SO THAT PONDING OF WATER DOES NOT OCCUR IN THE BUILDING AREA.

C. SUB-GRADE PREPARATION .

1. PERFORM DEMOLITION OF EXISTING STRUCTURES AS REQUIRED BY THE SOIL REPORT. THE ENTIRE VOLUME OF THE EXCAVATIONS CREATED BY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES SHOULD BE BACKFILLED WITH ENGINEERED (SELECT) FILL THAT IS PROPERLY PLACED AND COMPACTED.

2. EXCAVATE EXISTING SOILS AS REQUIRED TO REMOVE ALL EXISTING VEGETATION ROOTS & DELETERIOUS MATERIALS FROM THE PROPOSED BUILDING AREA, & AS REQUIRED BY SOIL REPORT. THE CLEARING SHOULD EXTEND AT LEAST THREE (3) FEET BEYOND THE BUILDING EDGES. ONCE ROUGH GRADE IS ESTABLISHED, THE EXPOSED SURFACE SHOULD BE PROOF-ROLLED IN ACCORDANCE WITH TxDOT ITEM 216 (1993). ANY SOFT POCKETS OF SOFT OR WEAK SOILS ENCOUNTERED SHOULD BE REMOVED. BUILD BUILDING PAD AS REQUIRED BY SOIL REPORT.

3. A MINIMUM OF ONE (1.0) FOOT OF SELECT FILL IS REQUIRED UNDER THE BUILDING SLAB AND SHALL EXTEND BEYOND THE BUILDING PERIMETER AS REQUIRED BY THE SOIL REPORT.

4. THE MATERIAL USED TO CONSTRUCT THE BUILDING PAD SHOULD CONSIST OF A SELECT NON-ACTIVE, INORGANIC SANDY CLAY TYPE SOIL HAVING A PLASTICITY INDEX (P.I.) OF 25% OR LESS. SELECT FILL MATERIAL SHOULD BE PLACED UNDER LABORATORY CONTROL, IN NO GREATER THAN EIGHT (8) INCH LOOSE LAYERS, AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D-698 PROCEDURE, AT OPTIMUM MOISTURE CONTENT (0 TO +3%).

D. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3750 PSF FOR TOTAL LOAD MINIMUM EMBEDMENT DEPTH OF 8 FEET BELOW EXISTING GRADE ELEVATION

E. REFER TO THE GEOTECHNICAL EXPLORATION FOR ADDITIONAL INFORMATION.

7. INDEPENDENT TESTING LABORATORY & SPECIAL INSPECTIONS

A. A GEOTECHNICAL EXPLORATION OF SUBSURFACE CONDITIONS, CONTAINING TEST BORINGS, LABORATORY TEST, ENGINEERING ANALYSIS AND FOUNDATION RECOMMENDATIONS, PERFORMED BY ARM SOIL TESTING LLC. REPORT NO. G16-416 DATED SEPTEMBER 6, 2016 IS AVAILABLE FOR REVIEW.

B. EMPLOYMENT OF A TESTING LABORATORY IN NO WAY RELIEVES THE CONTRACTOR OF ANY OBLIGATION TOPERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. CONTRACTOR RESPONSIBILITIES:

1. DELIVER TO LABORATORY AT DESIGNATED LOCATION ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH REQUIRE TESTING, TOGETHER WITH PROPOSED MIX DESIGNS.

2. COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO WORK AND TO MANUFACTURER'S FACILITIES.

3. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TEST AND INSPECTIONS AND FOR STORAGE AND CURING OF TEST SAMPLES.

4. NOTIFY LABORATORY OF MATERIAL SOURCES AND FURNISH NECESSARY QUANTITIES OF REPRESENTATIVE SAMPLES OF MATERIALS PROPPOSED FOR USE WHICH ARE REQUIRED TO BE TESTED.

5. NOTIFY ARCHITECT AND LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING SERVICES.

6. ADVISE LABORATORY IN A TIMELY FASHION TO COMPLETE REQUIRED INSPECTION AND TESTING PRIOR TO SUBSEQUENT WORK BEING PERFORMED.

7. PAY FOR ALL SUBSEQUENT RE-TESTING OF PRODUCTS OR SYSTEMS FOUND TO BE DEFECTIVE OR OTHERWISE NOT IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. REMOVE REJECTED PRODUCTS AND REPLACE WITH PRODUCTS OF SPECIFIED QUALITY.

D. SPECIAL INSTRUCTIONS:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTOR(S) TO PROVIDE INDPECTIONS DURING CONSTRUCTION ON THE TYPES OF CONSTRUCTION LISTED IN THIS SECTIONS. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE INSPECTIONS BEING PERFORMED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL HAVE EXPERIENCE WITH AT LEAST FIVE OTHER PROJECTS SIMILAR IN NATURE.

2. THE PURPOSE OF THE INSPECTIONS SHALL BE TO ENFORCE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT AND THE 2015 INTERNATIONAL BUILDING CODE, SECTION 1704.

3. THE FOLLOWING ITEMS REQUIRE INSPECTION BY THE SPECIAL INSPECTOR:

REFERENCED STANDARD	FREQUENCY
CONCRETE CONSTRUCTION	
REINFORCING STEEL	PERIODIC
CONCRETE MIX DESIGN	RANDOMLY @ 20% PERIODIC EACH CONCRETE POUR
SAMPLING OF FRESH CONCRETE	CONTINUOUS (SEE NOTE 1)
MAINTENANCE OF SPECIFIED CURING TEMPS AND TECHNIQUES	PERIODIC EACH POUR
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS
INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC
DRILLED & EPOXIED ANCHORS	EACH APPLICATION (SEE NOTE 2)
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	PERIODIC
SOILS (SLAB-ON-GRADE):	
VISUAL OBSERVATIONS	PERIODIC
PROOFROLLING OBSERVATION	CONTINUOUS
MOISTURE CONDITIONING & RECOMPACTION	CONTINUOUS OR PERIODIC, 1 DENSITY TEST FOR EACH 2,000 SF
DURING FILL PLACEMENT	CONTINUOUS OR PERIODIC
EVALUATION OF INPLACE DENSITY FILL	CONTINOUS OR PERIODIC

NOTES:

1. PROVIDE A SET OF 4 FOR EVERY 75 CY OF BUT NOT LESS THAN 1 5,000 SF OF SLAB OR WALL SURFACE AREA. MONITOR SLUMP AND AIR CONTENT OF CONC. AND NOTIFY DELIVERY DRIVER IF SLUMP DEVIATES MORE THAN 1" FROM SPEC'D VALUE.

2. ALL DRILLED AND EPOXIED ANCHORS (REBAR, BOLTS, THREADED RODS ETC.) SHALL BE FULL TESTED TO 110% FOR NO LESS THAN 3 MIN.

3. ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.

4. CORRECT DEFICIENCIES IN WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

5. PROVIDE THE ENGINEER OF RECORD (EOR) COPIES OF ALL SPECIAL INSPECTIONS SO A SPECIAL INSPECTIONS REPORT CAN BE PREPARED FOR OBTAINING A CERTIFICATE OF OCCUPANCY.

8. DEMOLITION

A. CONDUCT DEMOLITION OPERATIONS IN EXTREMELY CAREFUL MANNER IN ORDER TO PREVENT ANY DAMAGES TO ALL EXISTING CONSTRUCTION AND TO MINIMIZE INTERFERENCE WITH ADJACENT **STRUCTURES**

B. PREVENT THE MOVEMENT, SETTLEMENT, DAMAGE OR INJURY TO ADJACENT STRUCTURES, PROVIDE & PLACE BRACINGS OR SHORINGS & BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE ADJACENT STRUCTURES, ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, OR INJURY.

C. CEASE OPERATIONS & NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF SAFETY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT EXISTING STRUCTURES PROPERLY. DO NOT RESUME OPERATIONS UNTIL THE FULL SAFETY IS RESTORED.

D. PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT SERVICES, SIDEWALKS, DRIVEWAYS & TREES. ASSUME FULL LIABILITY FOR SUCH MOVEMENT, SETTLEMENT OR COLLAPSE. REPAIR DAMAGE PROMPTLY AT NO COST TO THE OWNER.

E. DEMOLISH INDICATED STRUCTURES & APPURTENANCE IN AN ORDERLY AND CAREFUL MANNER.

F. PERFORM DEMOLITION IN ACCORDANCE WITH THE APPLICABLE AUTHORITIES HAVING JURISDICTION.

G. REMOVE FOUNDATION WALLS & FOOTINGS AS INDICATED ON DEMOLITION DRAWINGS TO A MINIMUM 3' FEET BELOW FINISH GRADE.

H. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT INDICATED, AT NO COST TO THE OWNER OR THE ARCHITECT/ENGINEER.

I. REPAIR DAMAGE TO ADJACENT STRUCTURES CAUSED AS THE RESULT OF THIS WORK AT NO COST TO THE OWNER OF THE ARCHITECT/ENGINEER.

Dally + ASSOCIATES
STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
Texas Registered Engineering Firm
F-003426
JOB # 18-045-00

TEXAS PARKS & WILDLIFE

REGISTERED PROFESSIONAL ENGINEER
FRED DALLY
90904
LICENSED
STRUCTURAL ENGINEER
05/02/18

PDG ARCHITECTS

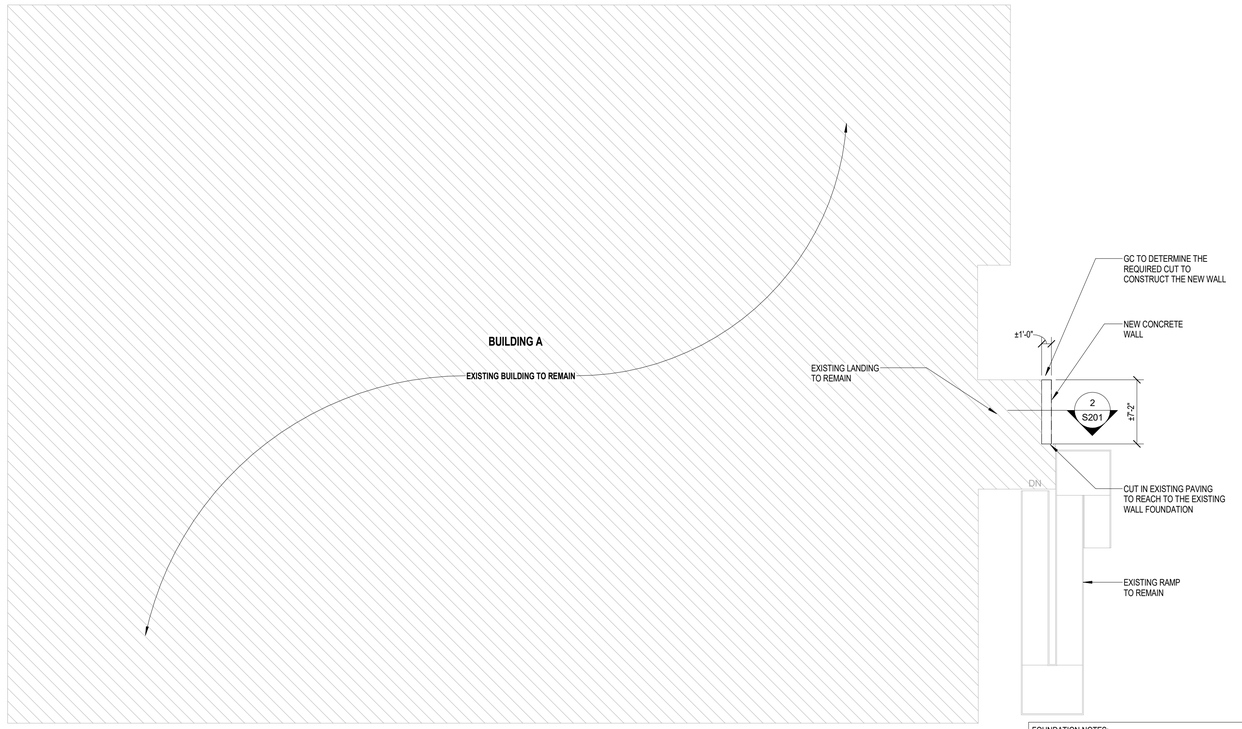
CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE:	05/02/18
DESIGNED BY:	SI
DRAWN BY:	KC
REVIEWED BY:	SI
REVISED:	
REVISED:	

SHEET TITLE
GENERAL STRUCTURAL CRITERIA

SHEET NUMBER
S101
BUILDING "A"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

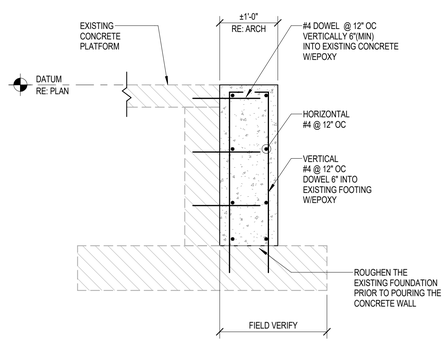


FOUNDATION NOTES:

1. DATUM ELEVATION <0'-0"> CORRESPONDS TO TRUE ELEVATION = RE: CIVIL.
   ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION <0' - 0">.

2. FLOOR DRAINS/SLOPES NOT SHOWN FOR CLARITY
   RE: ARCH FOR EXACT LOCATIONS FOR FLOOR DRAINS/SLOPE

1 FOUNDATION PLAN
1/8" = 1'-0"



2 SECTION
3/4" = 1'-0"

TEXAS PARKS & WILDLIFE

REGISTERED FRED DALLY 90904 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

05/02/18

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SHEET TITLE
FOUNDATION PLAN

SHEET NUMBER
S201
BUILDING "A"

Dally + ASSOCIATES
STRUCTURAL | CIVIL
9800 Richmond Avenue, Suite 460
Houston, Texas 77042
t 713 337 8881
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ABBREVIATIONS

A

A	AMPERES
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR, ABOVE COUNTER
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNICATOR
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AVG.	AVERAGE
AUX.	AUXILIARY
AWG.	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BC	BELOW COUNTER
BKR	BREAKER
BLDG.	BUILDING

C

C	CONDUIT, CELSIUS
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CWP	CONDENSER WATER PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT.	CONTINUOUS,CONTINUATION
CONTR.	CONTROLLER, CONTRACTOR
CP.	CIRCULATING PUMP
CPUC	CPU CHILLER
CR	CARD READER, CORD REEL
CRU	CONDENSATE RETURN UNIT
CT	CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER
CU	COPPER

D

dB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DR	DROPPED RECEPTACLE
DS	DAYLIGHT SENSOR
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DZ	DAYLIGHT ZONE

E

(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.C.	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROLS SYSTEM
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
(ER)	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST

F

F	FAHRENHEIT, FAN, FIRE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FF	FURNITURE FEED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIRE PUMP, FAN POWERED
FPTB	FAN POWERED TERMINAL BOX
FRZR	FREEZER
FS	FUSED SWITCH, FLOW SWITCH
FSD	MOTORIZED FIRE SMOKE DAMPER
FT	FOOT, FEET
FTL	FEED-THRU LUGS
FUT	FUTURE
FVNR	FULL-VOLTAGE, NON-REVERSING

G

GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
GUH	GAS UNIT HEATER

H

HACR	HEATING, AIR CONDITIONING RATED CIRCUIT BREAKER
HD	ELECTRIC HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HS	HAND SET
HSC	HAND SCANNER
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVU	HEATING/ VENTILATING UNIT
HWB	HOT WATER BOILER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HZ	HERTZ

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCH
INCAND	INCANDESCENT
INT	INTERNAL, INTERIOR

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
kVA	KILOVOLT- AMPS
kW	KILOWATT
kWH	KILOWATT-HOUR

L

LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE TRANSFORMER
LVL	LEVEL

M

	METER
MAP	MASTER ALARM PANEL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MFR	MANUFACTURER
MH	METAL HAUDE
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MV	MERCURY VAPOR

N

N3R	NEMA 3R ENCLOSURE
N4X	NEMA 4X ENCLOSURE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRICAL
OPG	OPENING

P

	POLE, PUMP
PB	PUSHBUTTON
PC	PHOTOCELL
PH	PHASE
PL	PILOT LIGHT
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
POS	POINT OF SALE
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PS	PHOTOSENSOR
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QTY	QUANTITY

R

R	EXISTING TO BE REMOVED
RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RC	RECONNECT EXISTING DEVICE TO CIRCUIT INDICATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
REC	RECEPTACLE
REFR	REFRIGERATOR
REINF	REINFORCING
REL	EXISTING TO BE RELOCATED
REL/EX	NEW LOCATION OF RELOCATED EQUIPMENT
REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND REPLACE
RTU	ROOFTOP UNIT

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SCHED	SCHEDULE
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPF	STAIR PRESSURIZATION FAN
SPKR	SPEAKER
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SQ.	SQUARE
SRF	SMOKE REMOVAL FAN
SS	START-STOP PUSH BUTTON
SSSC	SOLID STATE SPEED CONTROL
ST	SHUNT TRIP
STB	STEAM BOILER
STD	STANDARD
STL	STEEL
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD

T

TC	TEMPERATURE CONTROL
TEL	TELEPHONE
TF	TRANSFER FAN
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TP	CHILD TAMPER PROOF DEVICE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TU	TERMINAL UNIT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VM	VOLT METER

W

W	WATT, WIRE, WIDTH
WG	WIREGUARD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC
W/FT²	WATTS PER SQUARE FOOT

X

XFMR	TRANSFORMER

Z

Z	ZONE

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- (S) — SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "NSR" DENOTES NEMA 3R
- [B] — ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
  - "GFCI" DENOTES GROUND FAULT INTERRUPTER,
  - "WP" DENOTES WEATHERPROOF,
  - "IG" DENOTES ISOLATED GROUND,
  - "TP" DENOTES SAFETY TYPE, (TAMPER PROOF)
  - "DR" DENOTES DROPPED RECEPTACLE,
  - "USB" DENOTES RECEPTACLE WITH UNIVERSAL SERIAL BUS,
  - "AC" DENOTES ABOVE COUNTER MOUNTING, SEE
  - "UC" DENOTES UNDER COUNTER MOUNTING, SEE
  - "H" DENOTES HORIZONTALLY ORIENTED RECEPTACLE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
- DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR. PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
- SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
- SP — CONTROLLED DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "SP" DENOTES SPLIT WIRED
- FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- CONTROLLED FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- D, R, P — FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU. "D" INDICATES DUPLEX RECEPTACLE, "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- J, J — JUNCTION BOX "MD" DENOTES MOTOR DAMPER, "CR" DENOTES CORD REEL, "D" DENOTES DROP CORD RECEPTACLE,
- DUPLEX RECEPTACLE WITH HOMERUN
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- TWO-GANG CEILING OUTLET
- TWO-GANG FLOOR OUTLET
- THREE-GANG FLOOR OUTLET
- FP — POWER POLE
- DIRECT CONNECTION TO EQUIPMENT
- P — PULL BOX (OVER 4" SQUARE)
- C(2) — CLOCK RECEPTACLE TO BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

- 2' X 4' LIGHTING FIXTURE.
- 2' X 2' LIGHTING FIXTURE.
- 1' X 4' LIGHTING FIXTURE.
- 1' X 2' LIGHTING FIXTURE.
- 1' X 1' LIGHTING FIXTURE.
- STRIP LIGHTING FIXTURES.
- STAGGERED STRIP LIGHTING FIXTURE.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SECURITY WALL PACK
- SITE LIGHTING FIXTURE.
- POST-TOP FIXTURE/ACORN FIXTURE BRACKET ARM INDICATES WALL MOUNT WITH ARM
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, CIRCUIT NUMBER ADJACENT TO FIXTURE INDICATES EMERGENCY CIRCUIT CONNECTED TO FIXTURE. PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- NL — EMERGENCY "NIGHT LIGHT" LIGHT FIXTURE. LIGHT FIXTURE IS UNSWITCHED AND INTENDED FOR 24 HOUR OPERATION. FEED VIA UNSWITCHED HOT.

DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE

SECONDARY DAYLIGHT ZONE

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDERSLAB OR UNDERGROUND
- EM — EMERGENCY CONDUIT
- EXPOSED CONDUIT
- DB — UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT:PHASE,NEUTRAL/SWITCH LEG,/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES 2# 12, PLUS GROUND, UNLESS NOTED OTHERWISE.
- 1LA-2,4 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- PARTIAL CIRCUIT HOMERUN TO PANEL.
- (ON)1LA-6 — COMMUNICATIONS CONDUIT OR CABLE:
  - "CL" DENOTES MASTER CLOCK,
  - "CR" DENOTES CASH REGISTER
  - "D" DENOTES DATA,
  - "FA" DENOTES FIRE ALARM,
  - "I" DENOTES INTERCOM,
  - "OHE" DENOTES OVERHEAD ELECTRICAL LINE.
  - "PA" DENOTES PAGING,
  - "S" DENOTES SECURITY,
  - "T" DENOTES TELEPHONE,
  - "V" DENOTES VIDEO,
- TELECOMMUNICATIONS CABLE TRAY TO BE CONCEALED ABOVE ACCESSABLE CEILING.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE
- TERMINAL CABINET (FLUSH/SURFACE MOUNT), TYPE AS NOTED, 24" X 48" X 3-1/2" UNLESS NOTED OTHERWISE.
- BAT — BATTERY/INVERTER UNIT
- LV — LOW VOLTAGE TRANSFORMER.

COMMUNICATIONS

ALL OUTLET BOXES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS:
"FAX" DENOTES OUTLET DEDICATED FOR A FAX,
"W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F.
"PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.

- HS — SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
- INDICATES THE LOCATION OF A NEW TECHNOLOGY WALL OUTLET, PROVIDE DUAL GANG BACK BOX. REFERENCE TECHNOLOGY SHEET FOR CONTENT.
- M,W — MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- S,VC — CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.
- S,L — WALL MOUNTED SPEAKER. "L" INDICATED LOCAL SOUND REINFORCEMENT
- CB — SCHOOL INTERCOMMUNICATION SYSTEM CALL-IN. PUSH BUTTON
- BELL, BUZZER OR CHIME AT 80+ A.F.F.
- VC — VOLUME CONTROL - WALL MOUNTED
- AX,W — AUXILIARY INPUT JACK. "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- AVO — "HIGH" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- AVI — "LOW" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- CIRCUIT BREAKER, RATING AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE. "CL" DENOTES CURRENT LIMITING
- DRAWOUT CIRCUIT BREAKER, RATINGS AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE
- ST — SHUNT TRIP
- GFI — GROUND FAULT RELAY
- K — KIRK-KEY INTERLOCK
- M — DIGITAL METER
- A 0-2000 — AMMETER, RANGE AS SHOWN
- AS — AMMETER SWITCH
- V 0-600 — VOLTMETER, RANGE AS SHOWN
- VS — VOLTMETER SWITCH
- WH D-15 — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- 12.47KV/120V — POTENTIAL TRANSFORMER, RATING AS SHOWN
- GROUND CONNECTION
- LIGHTING ARRESTOR
- G — GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- M — ELECTRICAL METER
- SPD — SURGE PROTECTION DEVICE

MISCELLANEOUS

- F — SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 — DRAWING NOTE REFERENCE
- 1 — STARTER/DISCONNECT SCHEDULE REFERENCE
- 1 — FEEDER SCHEDULE REFERENCE
- LC — LIGHTING CONTACTOR
- TS — TIME SWITCH
- PC — PHOTOCELL
- PUSH BUTTON/DOOR BELL
- TC — TIMECLOCK
- R — RELAY
- SOS — AREA OF RESCUE ASSISTANCE
- B — BELL

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S — SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S,# — SMOKE DETECTOR - "ID" INDICATES IN DUCT TYPE "AS" INDICATES AIR SAMPLING TYPE "AC" INDICATES ABOVE CEILING "BF" INDICATES BELOW FLOOR
- H — HEAT DETECTOR
- S,BT — BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S,BR — BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER STROBE / WALL MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- S — FIRE ALARM SPEAKER / WALL MOUNTED
- DH — MAGNETIC DOOR HOLDER
- R — AUXILIARY CONTROL RELAY
- FH — FIRE FIGHTER HANDSET
- F — FIRE ALARM PULL STATION +42" AFF
- F — FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) WALL MOUNT +80" AFF- 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER

SECURITY

- KP — KEYPAD
- GB — GLASS BREAK SENSOR
- H — HOLD UP BUTTON
- DS — INTERCOM DOOR STATION
- MS — INTERCOM MASTER STATION
- M — LONG RANGE MOTION DETECTOR
- M — WALL MOUNTED MOTION DETECTOR
- M — CEILING MOUNTED MOTION DETECTOR
- IDP — INTRUSION DETECTION PANEL
- DC — DOOR CONTACT
- PB — ADA AUTO DOOR OPEN BUTTON
- DR — DOOR RELEASE BUTTON
- CR — CARD READER
- CR — WALL MOUNTED CARD READER

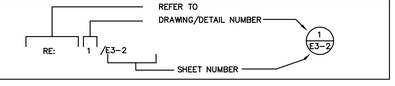
REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES

ALL WALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- $ — SWITCH, SPST, 20A, 120/277V.
- $2 — SWITCH, 20A, 120/277V:
  - "2" DENOTES DPST,
  - "3" DENOTES THREE-WAY,
  - "4" DENOTES FOUR-WAY,
  - "K" DENOTES KEY SWITCH,
  - "P" DENOTES PILOT LIGHT,
  - "T" DENOTES SPRING WOUND TIMER.
  - "R" DENOTES RED
  - "F" DENOTES FAN SPEED CONTROLLER
  - "OC" DENOTES OCCUPANCY SENSOR SWITCH
  - "L" DENOTES LOCKING SWITCH
  - "LV" DENOTES LOW VOLTAGE SWITCH
- $MC — SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $D — DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.
- $3K — THREE-WAY KEY SWITCH, 20A, 120/277V.
- $SC — WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION SCREENS.
- $M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- OC — CEILING MOUNTED OCCUPANCY SENSOR
- MP — MASTER OCCUPANCY SENSOR POWER PACK
- DS — DAYLIGHT/PHOTO SENSOR
- PS — PARTITION SENSOR

DRAWING/DETAIL REFERENCE KEY



GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
DESIGNED BY: JONES DBR
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 5/1/18

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

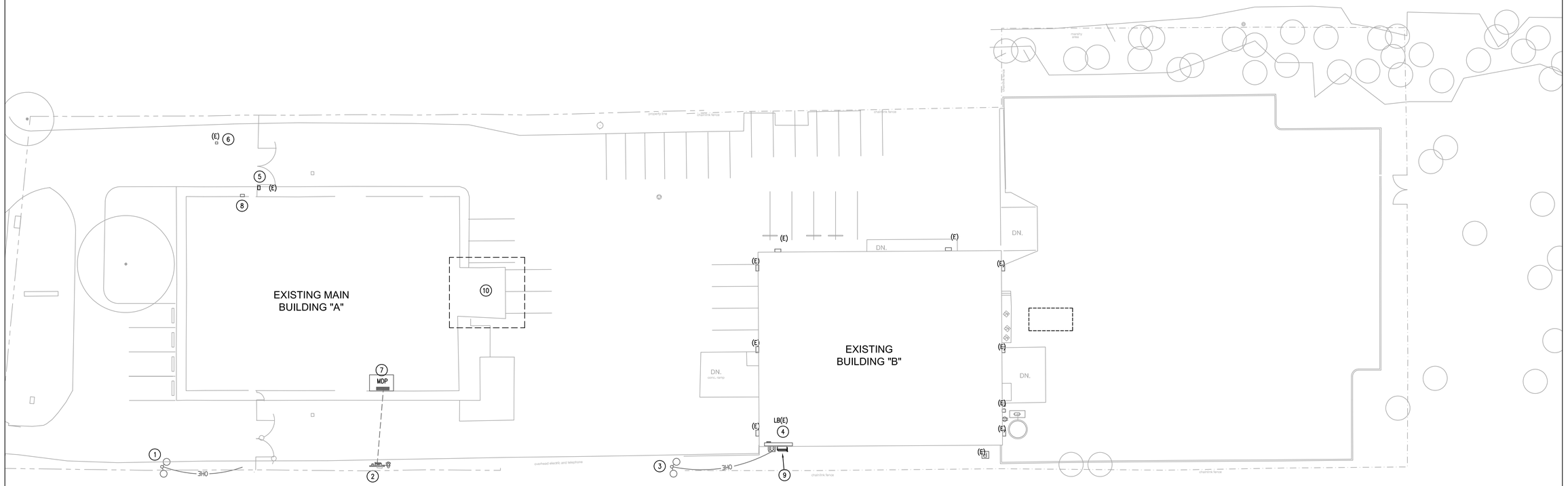
JONES*DBR Project Number 1726.000

WM	RM	JG	RS	--

SHEET TITLE
ELECTRICAL SYMBOL LEGEND

SHEET NUMBER
E100

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



NOTE:
THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER AND/OR/GAS LINES, THAT MAY BE BURIED IN AREA OF NEW CONSTRUCTION OR WHEN DIGGING NEW TRENCH FOR NEW FEEDERS.

1 / E101 ELECTRICAL SITE PLAN
1" = 20'-0"

ELECTRICAL KEYED NOTES:

1. EXISTING BUILDING "A" 120/240V/1PH/3W POWER CO. UTILITY TRANSFORMER POLE.
2. EXISTING BUILDING "A" 400A/2P/NE3R MAIN DISCONNECT AND DEMAND METER ON A FREESTANDING RACK TO REMAIN.
3. EXISTING BUILDING "B" 120/240V/1PH/3W POWER CO. UTILITY TRANSFORMER POLE.
4. EXISTING BUILDING "B" 120/240V/1PH/3W SERVICE WIRING GUTTER AND ELECTRICAL GEAR TO REMAIN.
5. EXISTING MOTORIZED GATE OPERATOR TO BE DISCONNECTED. KEEP EXISTING WIRING TO RECONNECT TO NEW MOTOR GATE UNIT.
6. EXISTING MOTORIZED GATE KEY PAD.
7. EXISTING 400A, 120/240V/3PH/4W MAIN DISTRIBUTION PANEL "MDP". REFER TO ONE LINE DIAGRAM SHEET E2.01.
8. EXISTING "KNOX" BOX.
9. EXISTING 400A, NEMA-3R MAIN FUSED DISCONNECT SWITCH TO BE DISCONNECTED AND REPLACED. REFER TO ONE LINE DIAGRAM #1/E302.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING DEMOLITION IN THIS AREA. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, LIGHT CONTROLS, FIRE ALARM DEVICES, DATA/COMM PLATES ETC. IN THE AREA OF BUILDING DEMOLITION. REMOVE CONDUIT AND WIRE BACK TO POINT OF SOURCE. MAINTAIN CIRCUIT CONTINUITY TO REMAINING RECEPTACLES, LIGHTS, DEVICES.

ELECTRICAL GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL ELEVATION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION WORK.
3. RE-ESTABLISH SERVCE TO ANY CIRCUITS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
4. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR MORE DETAILED INFORMATION AND FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES OR DEVICES BEING REMOVED.
6. ELECTRICAL CONTRACTOR SHALL RUN AND INSTALL ALL EXPOSED JUNCTION BOXES AND CONDUITS IN A GOOD WORKMANLIKE MANNER.
7. ALL CONDUIT INSTALLED ON THE EXTERIOR SHALL BE SCHEDULE 40 PVC AND ALL JUNCTION BOXES PVC. ALL FASTENING SCREWS SHALL BE STAINLESS STEEL TO KEEP FROM RUSTING.

PLAN NORTH TRUE NORTH

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

JONES*DBR Project Number 1726.000

WM	RM	JG	RS	--

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
DESIGNED BY: JONES DBR
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET NUMBER
E101

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

1 LEVEL 1 LIGHTING PLAN

EL101
1/8" = 1'-0"

NOTES;

A. ALL 2'x4' LAY-IN LIGHT FIXTURES ARE TYPE "A" UNLESS OTHERWISE NOTED.

B. ALL EXISTING 2'x4' LAY-IN LIGHTING FIXTURES PROVIDED BY OWNER SHALL BE RE-INSTALLED BY THE ELECTRICAL CONTRACTOR.

C. ALL EXISTING EXTERIOR SOFFIT LIGHTING FIXTURES PROVIDED BY OWNER SHALL BE RE-INSTALLED BY THE ELECTRICAL CONTRACTOR.

D. ALL EXISTING EXIT SIGNS SHALL REPLACED WITH NEW ONES. REFER TO LIGHTING FIXTURE SCHEDULE.

ALL EXISTING EMERGENCY BATTERY PACKS SHALL BE REPLACED WITH NEW BODINE BATTERY PACK DRIVERS.

FIRE ALARM DEMOLITION GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM.
2. THE SCOPE OF WORK IS TO REMOVE THE FIRE ALARM SYSTEM IN ITS ENTIRETY
3. REMOVE EXISTING FIRE ALARM PANEL AND ALL J-BOXES AND WIRING ASSOCIATED WITH THE FIRE ALARM DEVICES.
4. ADD DUCT SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR DUCTS AND INCLUDE A F/A RELAY TO EACH EXISTING ROOF TOP UNIT WITH 2000 CFM OR MORE.

LIGHTING DEMOLITION GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE DEMOLITION OF THE EXISTING LIGHTING.
2. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
3. REMOVE ALL J-BOXES AND WIRING ASSOCIATED WITH ALL LIGHTING BEING REMOVED, INCLUDING LIGHTING CONTROLS AND FIRE ALARM DEVICES.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
5. RECONNECT NEW EXIT LIGHT TO IT'S EXISTING EXIT SIGN CIRCUIT.
6. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING WIRES FROM VACATED FIXTURES AS REQUIRED TO RE-CONNECT TO NEW LIGHTING FIXTURES.

ELECTRICAL KEYED NOTES

(1) NEW LED EXIT SIGN . CONNECT TO EXISTING EXIT SIGN CIRCUIT. TYPICAL FOR ALL EXIT SIGNS. REFER TO SHEET E401 FOR LIGHTING FIXTURE SCHEDULE.

(2) PROVIDE BODINE EMERGENCY LED DRIVER FOR EXTERIOR SOFFIT EMERGENCY EGRESS LIGHT.

(3) NEW LED EXIT SIGN . CONNECT TO EXISTING EXIT SIGN CIRCUIT. TYPICAL FOR ALL EXIT SIGNS. REFER TO SHEET E401 FOR LIGHTING FIXTURE SCHEDULE.

(4) NEW FIRE ALARM CONTROL PANEL. LOCATE AT SAME LOCATION AS THE DEMOLISHED PANEL. FIELD VERIFY EXACT LOCATION OF THE EXISTING.

(5) REMOVE, REPLACE AND RECONNECT EXISTING EXIT SIGN.

(6) PROVIDE NEW EMERGENCY EGRESS LED SECURITY WALL PACK FIXTURE. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT.

(7) REMOVE EXISTING BATTERY PACK AND PROVIDE NEW BODINE EMERGENCY LED DRIVER FOR FOR THIS 2'x4' EMERGENCY LIGHT.

(8) REMOVE EXISTING BATTERY PACK AND PROVIDE NEW BODINE EMERGENCY LED DRIVER FOR FOR THIS 2'x4' EMERGENCY LIGHT.

PLAN NORTH TRUE NORTH

STATE OF TEXAS
WILLIAM MEISTER
101184
LICENSED
PROFESSIONAL ENGINEER
5/1/18

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
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TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05/02/18
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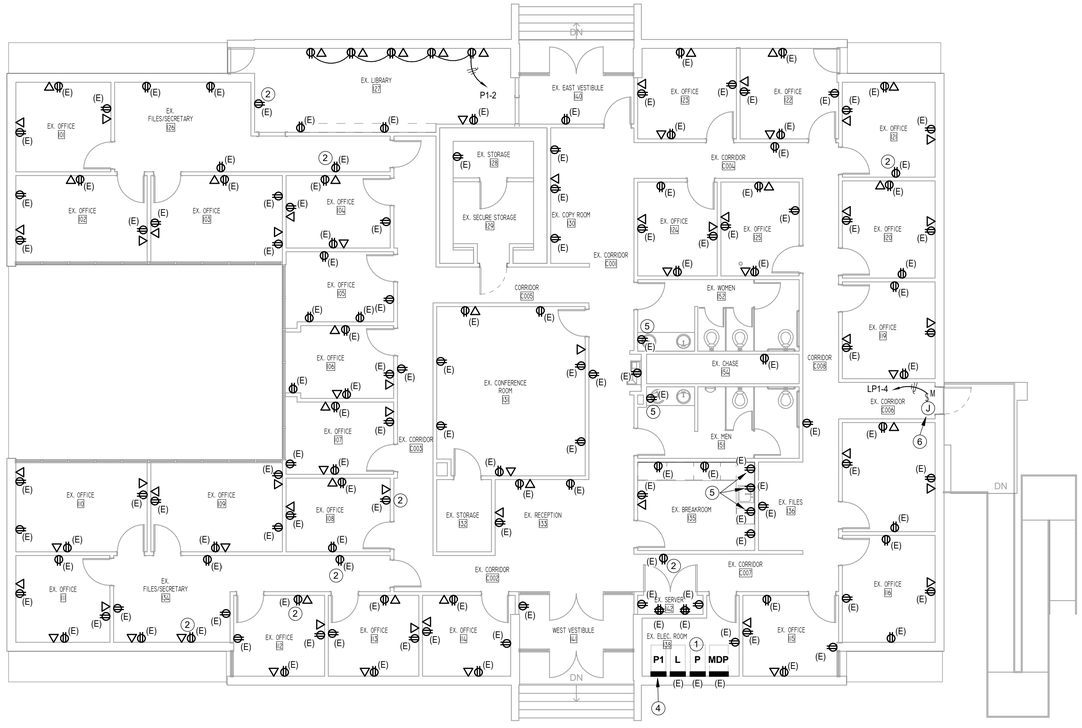
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
LEVEL 1 LIGHTING PLAN

SHEET NUMBER
EL101
BUILDING 'A'

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



1 EP101 LEVEL 1 POWER PLAN

1/8" = 1'-0"

IT/DATA NOTE:

A. ALL EXISTING CATEGORY CABLING TO BE REMOVED AND REPLACED BY OTHERS.

ELECTRICAL DEMOLITION GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF FLOOD WATER DAMAGE TO THE EXISTING BUILDING.
2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
3. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REPAIR WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
4. REMOVE AND REPLACE ALL EXISTING OUTLETS BROKEN COVER PLATES. MATCH EXISTING BRAND AND COLOR.
5. FIELD VERIFY ALL 12" AFF EXISTING J-BOXES AND OUTLETS IN THE ENTIRE BUILDING AND CHECK FOR FLOOD WATER DAMAGE AND WIRE WATER CORROSION. IF WATER DAMAGE DETECTED REPLACE AS REQUIRED. MATCH EXISTING.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND ALSO CONTRACTOR SHALL FIELD VERIFY OF ALL EXISTING OUTLETS AND FIRE ALARM DEVICES BEING REMOVED AND MAKE AN INVENTORY OF DEVICES FOR RELOCATION.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR THE EXISTING SMALL BUILDING ATTACHED TO THE EAST SIDE OF THE MAIN BUILDING. ALL EXISTING RECEPTACLES, FIRE ALARM DEVICES SHALL BE REMOVED AND DISCONNECTED AND CONDUIT REMOVED BACK TO POINT OF SOURCE. MAINTAIN CIRCUIT CONTINUITY TO REMAINING RECEPTACLES/DEVICES.

ELECTRICAL GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL POWER AND DATA OUTLETS. LOCATION AND QUANTITIES SHOWN ARE APPROXIMATE.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING POWER RECEPTACLES MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND CHECK RECEPTACLE AND WIRING FOR WATER FLOOD DAMAGE. REPLACE ANY FAULTY RECEPTACLE, J-BOXES AND REFURBISH WIRE ENDS AND PROVIDE NEW WIRE NUTS AND J-BOXES AS REQUIRED AND RECONNECT RECEPTACLE.
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY KIND OF J-BOX OR PULL BOX MOUNTED UP TO 24" AFF IN THE ENTIRE BUILDING AND REPLACE, REFURBISH WIRING AND RECONNECT USING NEW WIRE NUTS.

ELECTRICAL KEYED NOTES

1. EXISTING ELECTRICAL EQUIPMENT GEAR TO REMAIN.
2. ELECTRICAL CONTRACTOR SHALL REPLACE BROKEN RECEPTACLE COVER PLATE. REFER TO THE ELECTRICAL DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
3. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
4. NEW 120/240V POWER PANEL REFER TO ONE LINE DIAGRAM #1/301. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION WITH EXISTING EQUIPMENT TO COMPLY WITH NEC 2017 WORKING CLEARANCE.
5. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE AND ENSURE THAT THIS EXISTING RECEPTACLES BE "GFCI" RATED AND HAVE STAINLESS STEEL COVER PLATES. IF NOT THEN PROVIDE AND WIRE NEW "GFCI" WITH SS COVER PLATE RECEPTACLES.

   MOUNT RECEPTACLE ON ROOF AND CONNECT AS SHOWN. REFER TO DETAIL #6/E402.
6. JUNCTION BOX FOR ELECTRIC OPERATED DOOR OPENER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DOOR OPENER MANUFACTURER FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE ALL ACCESSORIES, LOW VOLTAGE WIRING AND PARTS AS REQUIRED FOR A COMPLETE INSTALLATION.

PLAN NORTH TRUE NORTH

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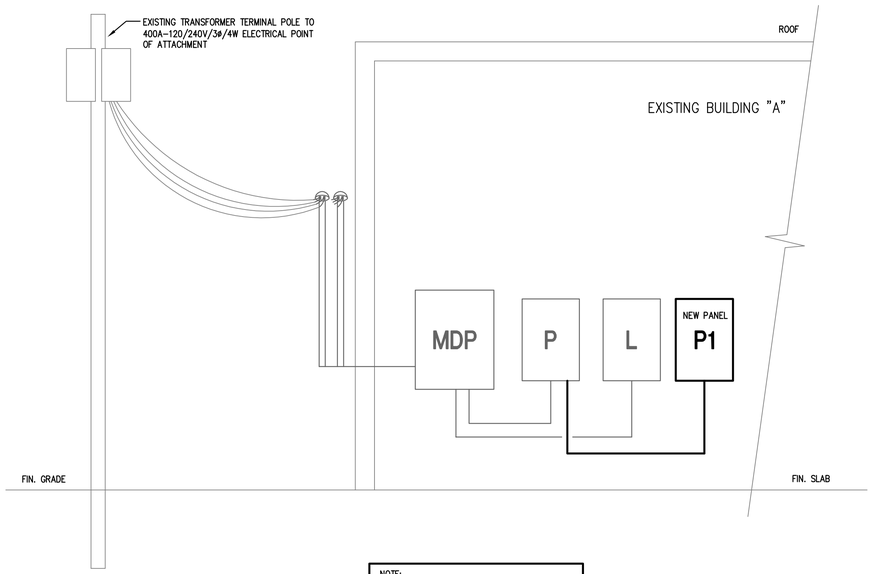
SHEET TITLE
LEVEL 1 POWER PLAN

SHEET NUMBER
EP101
BUILDING 'A'

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



NOTE:
ALL ONE LINE DIAGRAM PANELS, DISCONNECTS AND WIRING ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

ONE LINE DIAGRAM KEYED NOTES (BLDG. A):

LOCAL POWER CO. TRANSFORMER POLE. REFER TO THE SITE PLAN.

EXISTING FREESTANDING SERVICE ENTRANCE WEATHERHEADS.

EXISTING 120/240V/3PH/4W- ELECTRICAL MAIN DISTRIBUTION PANEL.

EXISTING ELECTRICAL PANEL "P". DISCONNECT CIRCUITS 2,4,6 TO MAKE ROOM FOR A 60A/2P BREAKER TO SERVE NEW PANEL "P1". RECONNECT REMOVED CIRCUITS TO NEW PANEL "P1" CIRCUITS P1-1,3,5. REFER TO PANEL SCHEDULES.

Panelboard P

10,000 AIC Rating
X Existing
New

120/240 Volt,1-Phase,3-Wire
2 Section
1 -Nema Rating

MCB
X MLO
225 AMP MCB
AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
1	1176	EXISTING LOAD	R	12	20/1	1	A	2	60/2	6	SP	NEW PANEL "P1"	1200	2,3
1	900	EXISTING LOAD	R	12	20/1	3	C	4	-	6	-	-	-	2
1	900	EXISTING LOAD	R	12	20/1	5	A	6	20/1	12	L	EXISTING LOAD	1200	1
1	900	EXISTING LOAD	R	12	20/1	7	C	8	20/1	12	L	EXISTING LOAD	1200	1
1	1176	EXISTING LOAD	R	12	20/1	9	A	10	20/1	12	L	EXISTING LOAD	1200	1
1	500	EXISTING LOAD	R	12	20/1	11	C	12	20/1	12	L	EXISTING LOAD	1200	1
1	720	EXISTING LOAD	R	12	20/1	13	A	14	20/1	12	L	EXISTING LOAD	1200	1
1	720	EXISTING LOAD	R	12	20/1	15	C	16	20/1	12	L	EXISTING LOAD	1200	1
1	400	EXISTING LOAD	R	12	20/1	17	A	18	20/1	12	L	EXISTING LOAD	1200	1
1	400	EXISTING LOAD	R	12	20/1	19	C	20	20/1	12	L	EXISTING LOAD	1200	1
1	720	EXISTING LOAD	R	12	20/1	21	A	22	20/1	12	L/R	EXISTING LOAD	1200	1
1	900	EXISTING LOAD	R	12	20/1	23	C	24	20/1	12	L	EXISTING LOAD	1400	1
1	900	EXISTING LOAD	R	12	20/1	25	A	26	20/1	12	L	EXISTING LOAD	1200	1
1	1500	EXISTING LOAD	H	12	20/1	27	C	28	20/1	12	L	EXISTING LOAD	1200	1
1	2000	EXISTING 240 PLUG	R	12	20/1	29	A	30	20/1	12	R	EXISTING 240 PLUG	2500	1
1	2000	EXISTING 240 PLUG	R	12	20/1	31	C	32	20/1	12	R	EXISTING 240 PLUG	2500	1
1	2000	EXISTING 240 PLUG	R	12	20/1	33	A	34	20/1	12	MT	EXISTING LOAD	1000	1
1	2000	EXISTING 240 PLUG	R	12	20/1	35	C	36	20/1	12	R	EXISTING LOAD	696	1
1	900	EXISTING LOAD	R	12	20/1	37	A	38	20/1	12	R	EXISTING LOAD	1500	1
1	900	EXISTING LOAD	R	12	20/1	39	C	40	20/1	12	L	EXISTING LOAD	1200	1
1	900	EXISTING LOAD	R	12	20/1	41	A	42	20/1	12	R	EXISTING LOAD	1080	1
	22,512	Subtotal										Subtotal	26,276	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	29,288		19,644	210.20(a)	(L) Lighting	14,600	125%	18,250
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	1,500	100%	1,500		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	1,000	125%	1,250
	(M) Misc.	0	100%	0		(SP) Sub Panel	1,200	100%	1,200

Total Connected Load 47,588 VA = 198.3 AMPS
Total Load (Diversified 41,844 VA = 174.4 AMPS

Location of Panel:

Panelboard P1

10,000 AIC Rating
Existing
X New

120/240 Volt,1-Phase,3-Wire
2 Section
1 -Nema Rating

MCB
X MLO
100 AMP MCB
AMP BUS (Copper)

Single
Double
X Feed - Thru

Mounting
X Surface
Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
4	1000	EXISTING LOAD	R	12	20/1	1	A	2	20/1	12	R	RECEPTACLES	720	5
4	1000	EXISTING LOAD	R	12	20/1	3	C	4	20/1	12	R	ELEC. DOOR OPEN.	250	5
		SPARE			20/1	5	A	6	20/1			SPARE		
		SPARE			20/1	7	C	8	20/1			SPARE		
		SPARE			20/1	9	A	10	20/1			SPARE		
		SPACE				11	C	12				SPACE		
		SPACE				13	A	14				SPACE		
		SPACE				15	C	16				SPACE		
		SPACE				17	A	18				SPACE		
		SPACE				19	C	20				SPACE		
		SPACE				21	A	22				SPACE		
		SPACE				23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	C	28				SPACE		
		SPACE				29	A	30				SPACE		
		SPACE				31	C	32				SPACE		
		SPACE				33	A	34				SPACE		
		SPACE				35	C	36				SPACE		
		SPACE				37	A	38				SPACE		
		SPACE				39	C	40				SPACE		
		SPACE				41	A	42				SPACE		
	2,000	Subtotal										Subtotal	970	

N.E.C.	Load Type	Conn.	Fct.	Diversity	N.E.C.		Conn.	Fct.	Diversity
220.44	(R) Recept.	2,970		2,970	210.20(a)	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0		(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.50	(MT) Lrg. Mot.	0	125%	0
	(M) Misc.	0	100%	0		(SP) Sub Panel	0	100%	0

Total Connected Load 2,970 VA = 12.4 AMPS
Total Load (Diversified 2,970 VA = 12.4 AMPS

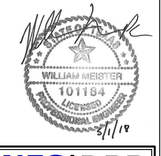
Location of Panel:

PANEL SCHEDULE NOTES:

1. EXISTING BREAKER AND ASSOCIATED LOAD SHALL REMAIN.
2. REMOVE EXISTING CIRCUIT BREAKER TO MAKE ROOM FOR BREAKER AS SHOWN TO SERVE NEW PANEL "P1".
3. PROVIDE NEW CIRCUIT BREAKER AS INDICATED.
4. RELOCATED CIRCUITS FROM PANEL "P1".
5. NEW POWER CIRCUITS.

PANEL SCHEDULE GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL RE-WORK CIRCUIT BREAKERS AS REQUIRED BY THE DEMOLITION WORK. FIELD VERIFY ACCURACY OF ALL CIRCUIT ASSIGNMENT AND SPARE/SPACE AVAILABILITY.
B. ELECTRICAL CONTRACTOR SHALL PROVIDE A NEW UPDATED PANEL CIRCUIT DIRECTORY TO ALL EXISTING PANELBOARDS



1 E301 EXISTING ELECTRICAL PARTIAL RISER DIAGRAM (BLDG. A)

NOT TO SCALE

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

JONES*DBR Project Number 1726.000

WM	RM	JG	RS	--

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
DESIGNED BY: JONES DBR
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
EXISTING ELECT. RISER DIAGRAM

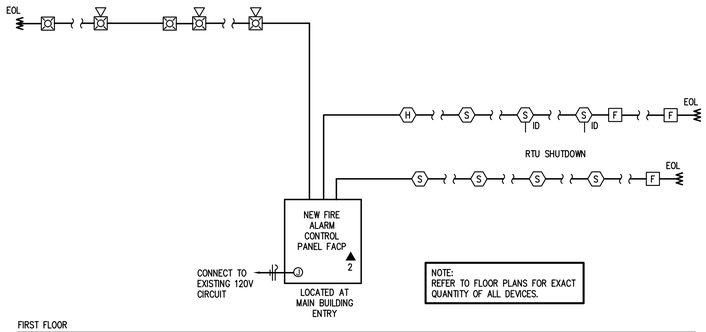
SHEET NUMBER
E301

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

FIRE ALARM SEQUENCE OF OPERATIONS:

A. When an alarm condition is detected by any of the system alarm initiating devices, the following actions and indications shall occur:

1. The system common alarm LED on the main display shall flash. The internal audible device shall sound. Acknowledgement or silencing the alarm condition shall silence the alarm condition and cause the flashing alarm LED to illuminate steady.
2. A 14–line 224 character back–lit LCD display shall indicate applicable information associated with the alarm condition including: device address, device type, device location, time and date of the alarm condition. Location and point messages shall be custom field programmed to the respective premises.
3. Any remote or local annunciator LED's associated with the alarm device shall be illuminated has herein specified. (If indicated on drawings).
4. Close common alarm contacts for sending a signal to an Approved Central Station (Two dedicated telephone lines, connection and service by Owner).
5. All automatic events programmed to the alarm point shall be executed and the associated indicating devices and/or outputs activated.
   - –Activate all audible/visual alarm devices. Alarm tones shall sound.
   - –De–activate HVAC systems over 2000 CFM.
   - –Display system status changes on fully supervised remote annunciator.
6. Display the status change messages on the system display.



FIRE ALARM RISER GENERAL NOTES:

A. PROVIDE SPARE DEVICES AS NOTED IN THE TABLE FOR USE WHEN ADDITIONAL DEVICES ARE REQUIRED. THE DEVICES NOT USED SHALL BE GIVEN TO THE OWNER AT THE END OF THE JOB.

B. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE CANDELA OUTPUT OF ALL VISUAL FIRE ALARM DEVICES (STROBES). THE OUT PUT SHALL MEET THE REQUIREMENTS OF U.L., ANSI AND A.D.A. SUBMIT CANDELA OUTPUT WITH SHOP DRAWINGS.

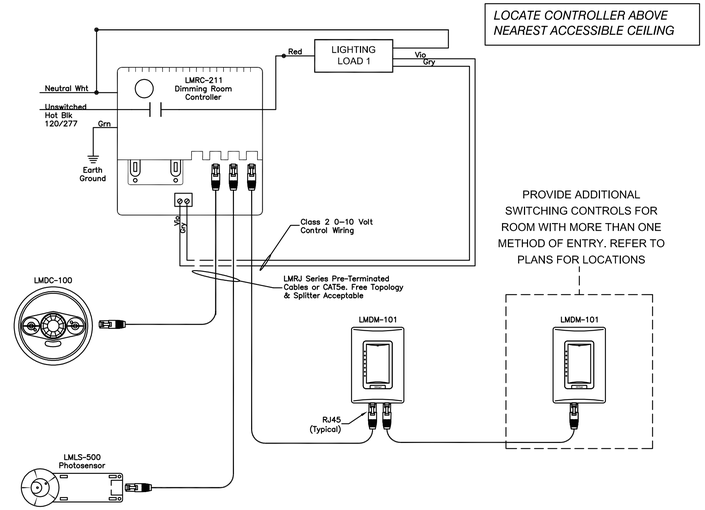
C. PROVIDE FIRE ALARM REMOTE POWER SUPPLIES (RPS) AND CONNECT TO NEAREST 120V CIRCUITING AS REQUIRED TO POWER VISUAL DEVICES. REFER TO SPECIFICATIONS.

SYMBOL	DESCRIPTION	QUANTITY OF SPARE DEVICES
S	SMOKE DETECTOR	2
H	HEAT DETECTOR	1
R	AUXILIARY CONTROL RELAY	1
F	FIRE ALARM PULL STATION	2
S	WALL MOUNTED FIRE ALARM SPEAKER/STROBE	4
	CEILING VISUAL FIRE ALARM (STROBE)	4

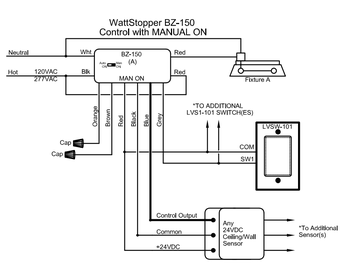
2 FIRE ALARM RISER DIAGRAM (BUILDING 'A')
NOT TO SCALE

QUANTITY OF SENSORS AND SWITCHES AS SHOWN ON PLANS

LOCATE CONTROLLER ABOVE NEAREST ACCESSIBLE CEILING

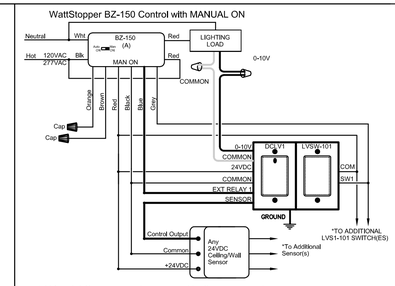


1 LIGHITNG ZONE DAYLIGHTHARVESTING
NOT TO SCALE



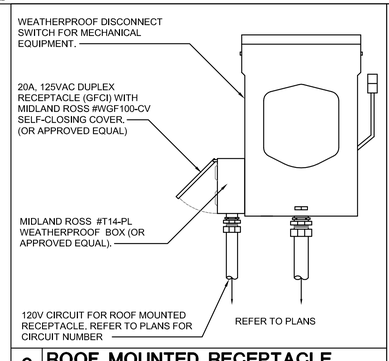
* At least 4 Sensors can be powered by the power pack.
* Sensors shall be set to Vacancy Mode.
  See Sensor data sheet.

4 WATTSTOPPER POWER PACK MANUAL ON - NO DIMMING
NOT TO SCALE

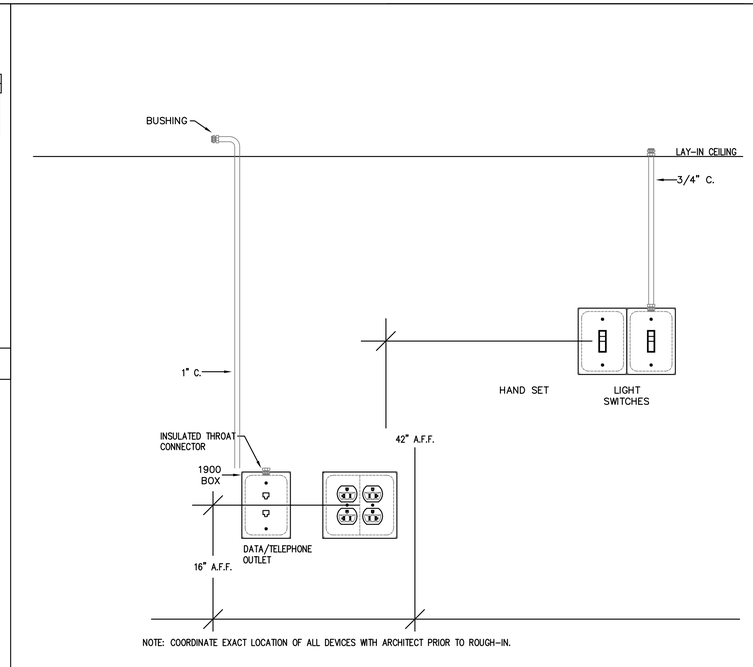


* At least 4 Sensors can be powered by the power pack.
* Sensors shall be set to Vacancy Mode.
  See Sensor data sheet.

3 WATTSTOPPER POWER PACK - MANUAL ON WITH SINGLE ZONE DIMMING
NOT TO SCALE



6 ROOF MOUNTED RECEPTACLE
NOT TO SCALE



5 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE

TYPE	MANUFACTURER	MOUNTING	LAMPS	VOLTS	REMARKS
A	OWNER PROVIDED	LAY–IN	41.7W LED	UNV	2'x4' LED LAY–IN.
AEM	OWNER PROVIDED	LAY–IN	41.7W LED	UNV	2'x4' LED LAY–IN.
BEM	HUBBELL # LNC4–36L–4K–065–4–U–(XX)	SURFACE	70W LED	120	LED WALL SCONCE. PARENTHESIS "XX" INDICATED FINISH TO BE SELECTED BY ARCHITECT. EQUIPPED WITH INTEGRAL BATTERY BACKUP LED DRIVER WITH HEATER RATED FOR –22°F. PROVIDE UNSWITCHED HOT WIRE.
X1	EMERGI–LITE # ELX400RN	UNIVERSAL MOUNT	LED	UNV	SINGLE FACE EXIT SIGN WITH RED STENCIL FACE.
X2	EMERGI–LITE # ELX400RN	UNIVERSAL MOUNT	LED	UNV	DOUBLE FACE EXIT SIGN WITH RED STENCIL FACE.

LIGHT FIXTURE SCHEDULE (BLDG. A and B)

1 E401 ELECTRICAL DETAILS AND SCHEDULES
NOT TO SCALE

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

JONES*DBR Project Number 1726.000

WM	RM	JG	RS	--

WILLIAM MEISTER 101184 LICENSED PROFESSIONAL ENGINEER 5/1/18

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
DESIGNED BY: JONES DBR
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
ELECTRICAL DETAILS & SCHEDULES

SHEET NUMBER
E401

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

1 P111 **LEVEL 1 PLUMBING PLAN**

1/8" = 1'-0"

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL REFER TO THE ARCHITECT PLANS FOR ALL DIMENSIONED, MOUNTING HEIGHTS AND ADA REQUIREMENTS.
2. CONTRACTOR SHALL INSPECT EXISTING PLUMBING FIXTURE FOR DAMAGES/CRACKED.
3. CONTRACTOR SHALL FIELD VERIFY THAT ALL EXISTING PLUMBING FIXTURES ARE IN GOOD PROPER WORKING CONDITION AND PROVIDE ANY NECESSARY REPAIRS IF REQUIRED.

PLUMBING KEYED NOTES

1. PLUMBING FIXTURE IN THIS AREA TO BE CHECKED FOR ANY DAMAGE, CRACKS, CHECK FOR PROPER WORKING CONDITIONS INCLUDING TRIM AND POLISH/CLEAN LIKE NEW.
2. PLUMBING FIXTURE TO BE CHECKED FOR ANY DAMAGE, CRACKS, AND ENSURE PROPER WORKING CONDITIONS, CONTRACTOR TO POLISH/CLEAN LIKE NEW.

PLAN NORTH TRUE NORTH

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LAB
FLOOD REPAIRS
PROJECT NUMBER: 126696

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JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
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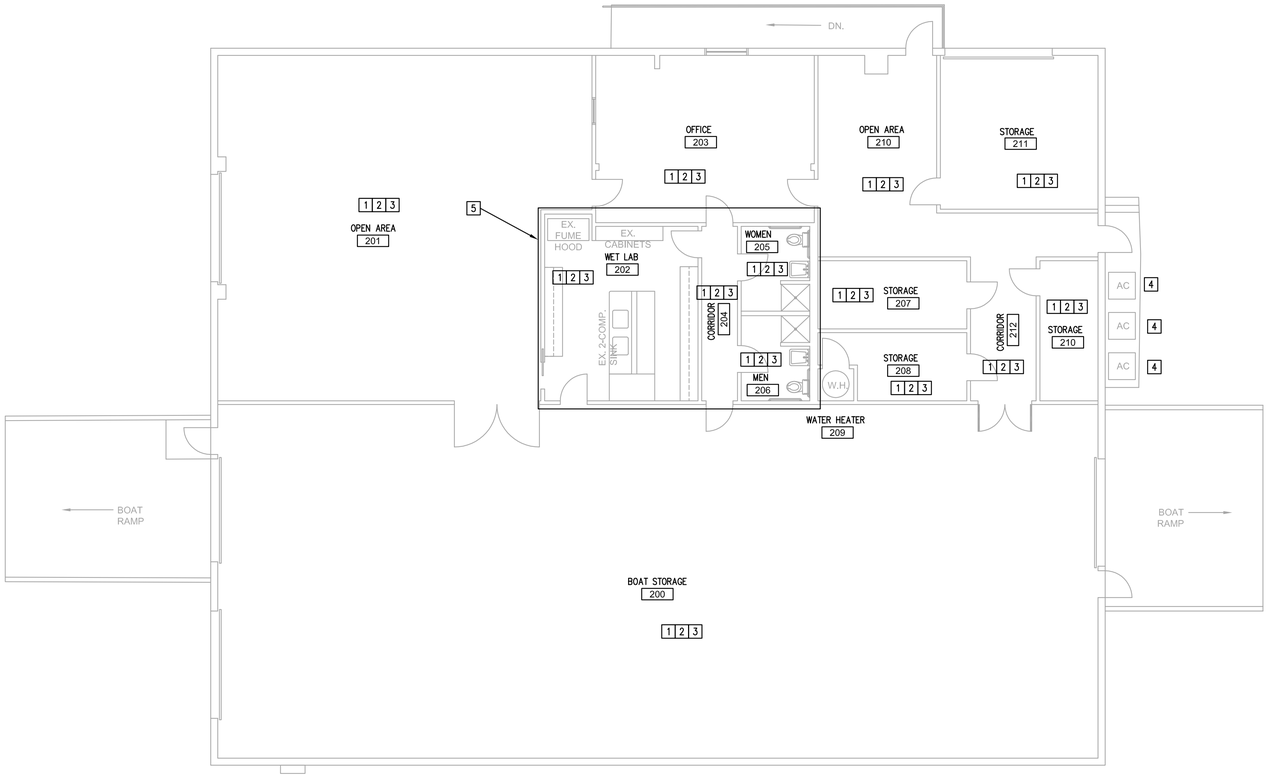
WM	RM	JG	RS	--

SHEET TITLE
LEVEL 1 PLUMBING PLAN

SHEET NUMBER
P111
BUILDING 'A'

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



1 M211-B LAB MECHANICAL PLAN
1/8"=1'-0"

MECHANICAL GENERAL NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
4. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO MAKE THE NECESSARY CHANGES AND MODIFICATION TO NEW AND EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DEMOLITION NOTES, DIMENSIONED FLOOR PLANS, MOUNTING LOCATIONS AND SCOPE OF WORK REQUIREMENTS.

MECHANICAL KEYED NOTES:

1 ENSURE EXISTING AIR DEVICES ARE IN ACCEPTABLE OPERATING CONDITION. CLEAN/PATCH/PAINT/REPAIR AS REQUIRED TO BRING AIR DEVICES TO LIKE NEW CONDITIONS. IF ANY AIR DEVICE NEEDS TO BE REPLACED DUE TO FLOOD DAMAGE, RUST, ETC. REPLACE WITH NEW AIR DEVICE TO MATCH BASE BUILDING STANDARDS. TYPICAL.

2 AN HVAC TEST AND BALANCE FIRM SHALL MEASURE THE EXISTING AIRFLOW AT ALL EXISTING AIR DEVICES WITHIN THE LAB BUILDING. ONCE A REPORT OF THE LAB BUILDING IS CREATED, THE REPORT SHALL BE SENT TO THE ARCHITECT AND MEP ENGINEER. TYPICAL.

3 ENSURE EXISTING INSULATION IS IN ACCEPTABLE CONDITION. CLEAN/PATCH/REPAIR INSULATION AS NECESSARY. IF ANY PORTION OF THE INSULATION NEEDS TO BE REPLACED, REMOVE THE MINIMUM AMOUNT OF INSULATION REQUIRED AND REPLACE WITH INSULATION TO MEET LOCAL ENERGY CODE MINIMUMS. TYPICAL.

4 ENSURE EXISTING HVAC EQUIPMENT IS IN ACCEPTABLE OPERATING CONDITION. CLEAN/PATCH/REPAIR EQUIPMENT AS NECESSARY FOR CONTINUED USE. DISCONNECT FROM EXISTING AND REPLACE THE EXISTING HVAC EQUIPMENT WITH SIMILARLY SIZED EQUIPMENT THAT MEETS THE CURRENT COOLING/HEATING CAPACITIES AND AIRFLOW CAPABILITIES LISTED ON THE NAMEPLATE AND RECONNECT TO EXISTING DUCTWORK. REUSE THE EXISTING HOUSEKEEPING PAD AS REQUIRED.

5 PROVIDE/REMOVE DUCTWORK AND FLEX DUCTWORK AS NECESSARY TO REMOVE THE EXISTING AIR DEVICES FROM THE EXISTING RCP WITHIN THE AREA INDICATED. PROVIDE/REMOVE DUCTWORK AND FLEX DUCTWORK AS NECESSARY REINSTALL THE EXISTING AIR DEVICES IN THE NEW RCP. FIELD COORDINATE EXACT MOUNTING LOCATION WITH LIGHT FIXTURES AND ALL OTHER TRADES.

PLAN NORTH TRUE NORTH

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

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TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
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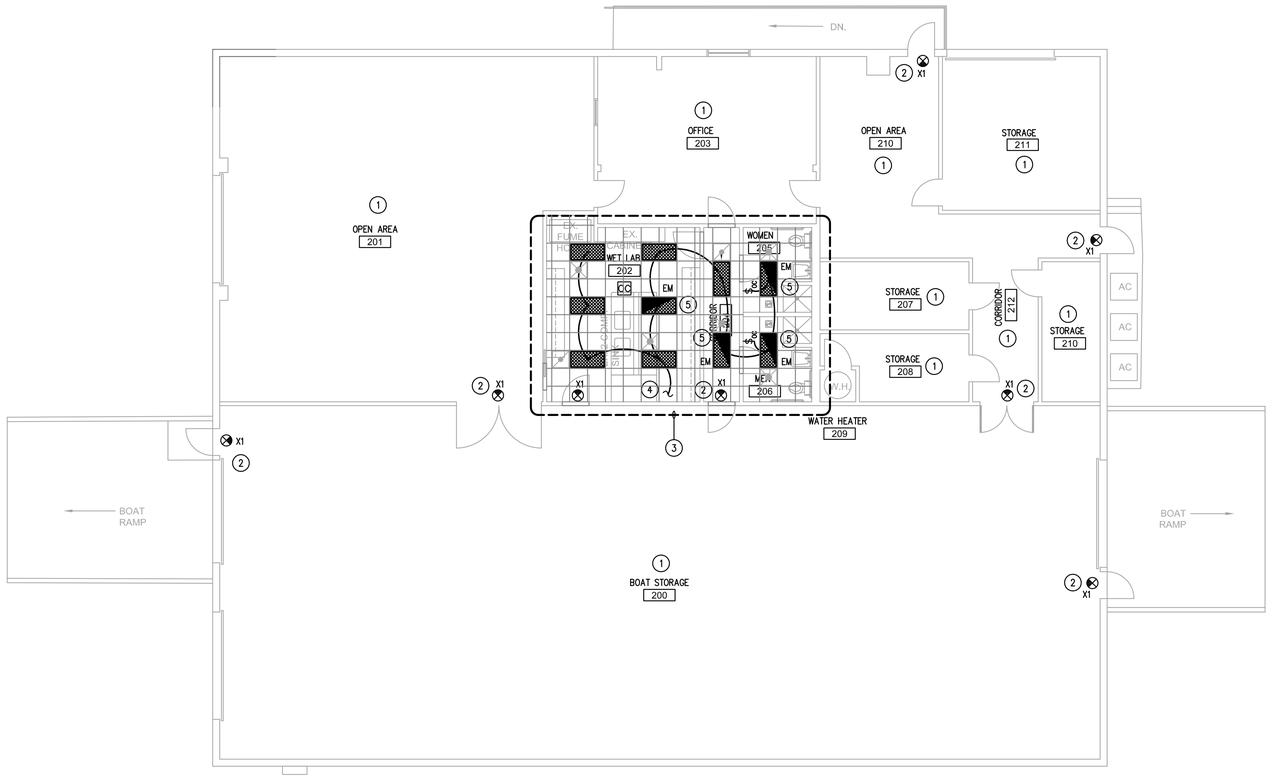
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
LAB MECHANICAL PLAN

SHEET NUMBER
M211-B
BUILDING "B"

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



1 LAB ELECTRICAL PLAN
EL211-B
1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF FLOOD WATER DAMAGE TO THE EXISTING BUILDING.
2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
3. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REPAIR WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
4. REMOVE AND REPLACE ALL EXISTING OUTLETS BROKEN COVER PLATES. MATCH EXISTING BRAND AND COLOR.
5. FIELD VERIFY ALL 12" AFF EXISTING J-BOXES AND OUTLETS IN THE ENTIRE BUILDING AND CHECK FOR FLOOD WATER DAMAGE AND WIRE WATER CORROSION. IF WATER DAMAGE DETECTED REPLACE AS REQUIRED. MATCH EXISTING.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL REPAIR DRAWINGS FOR ADDITIONAL INFORMATION AND ALSO CONTRACTOR SHALL FIELD VERIFY OF ALL EXISTING OUTLETS AND FIRE ALARM DEVICES BEING REMOVED AND MAKE AN INVENTORY OF DEVICES FOR RELOCATION.
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CEILING MOUNTED LIGHTING FIXTURES, FIRE ALARM DEVICES. PROVIDE A FIXTURE/DEVICES DAMAGE ASSESMENT TO ARCHITECT TO APPROVE LIGHT FIXTURE OR PARTS REPLACEMENT.

LIGHTING KEYED NOTES:

1. ALL LIGHTING AND LIGHTING CONTROLS IN THIS AREA/SPACE ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IF EXIT SIGN IS EXISTING. IF IS NOT THEN PROVIDE AND INSTALL NEW EXIT SIGN TYPE "X1".
3. AREA OF LIGHTING RENOVATION. OWNER PROVIDED LIGHT FIXTURES, INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. RECONNECT NEW 2'x4' TO EXISTING LIGHTING CIRCUIT IN THIS AREA. DO NOT OVERLOAD EXISTING CIRCUIT TO EXCEED 80% OF THE BREAKER RATING.
5. THIS FIXTURE SHALL BE PROVIDED WITH BODINE EMERGENCY BATTERY PACK.

FIRE ALARM NOTE:
CONTRACTOR SHALL FIELD TEST ALL FIRE SMOKE DETECORS IN THIS BUILDING 'B'. REPLACE ANY DETECTORS THAT ARE IN FAULTY OR INOPERABLE CONDITION.

PLAN NORTH TRUE NORTH

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

JONES*DBR Project Number 1726.000

WM	RM	JG	RS	--

WILLIAM MEISTER 101194 LICENSED PROFESSIONAL ENGINEER 5/1/18

TEXAS PARKS & WILDLIFE

PDG ARCHITECTS

CF DICKINSON MARINE LABORATORY
FLOOD REPAIRS
PROJECT NUMBER: 128696

DATE: 05-02-2018
DESIGNED BY: JONES DBR
DRAWN BY: JONES DBR
REVIEWED BY: JONES DBR
REVISED:
REVISED:

SHEET TITLE
BUILDING "B" ELECTRICAL PLAN

SHEET NUMBER
EL211-B

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID

1 EP211-B LAB POWER PLAN

1/8"=1'-0"

ELECTRICAL DEMOLITION NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF FLOOD WATER DAMAGE TO THE EXISTING BUILDING.
2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.
3. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
4. REMOVE AND REPLACE ALL EXISTING OUTLETS BROKEN COVER PLATES. MATCH EXISTING BRAND AND COLOR.
5. FIELD VERIFY ALL 12" AFF EXISTING J-BOXES AND OUTLETS IN THE ENTIRE BUILDING AND CHECK FOR FLOOD WATER DAMAGE AND WIRE WATER CORROSION. IF WATER DAMAGE DETECTED REPLACE AS REQUIRED. MATCH EXISTING.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND ALSO CONTRACTOR SHALL FIELD VERIFY OF ALL EXISTING OUTLETS AND FIRE ALARM DEVICES BEING REMOVED AND MAKE AN INVENTORY OF DEVICES FOR RELOCATION.
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CEILING MOUNTED LIGHTING FIXTURES, FIRE ALARM DEVICES. PROVIDE A FIXTURE/DEVICES DAMAGE ASSESMENT TO ARCHITECT TO APPROVE LIGHT FIXTURE OR PARTS REPLACEMENT.

ELECTRICAL KEYED NOTES:

1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING POWER AND DATA RECEPTACLES MOUNTED UP TO 24" AFF ALONG ENTIRE WALLS IN THE ENTIRE BUILDING AND CHECK ALL RECEPTACLES AND WIRING FOR WATER FLOOD DAMAGE. REPLACE ANY FAULTY POWER RECEPTACLES AS REQUIRED. PROVIDE NEW WIRE NUTS AND J-BOXES AS REQUIRED AND RECONNECT WIRING IN J-BOXES AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FOR ANY KIND OF WATER FLOOD DAMAGE TO EXISTING AIR CONDENSING UNITS. REPLACE ANY DAMAGE DISCONNECT SWITCHES AND REFURBISH WIRING AND RECONNECT USING NEW WIRE NUTS AS REQUIRED.
3. EXISTING ELECTRICAL 400 AMPS 120/240V/3PH/4W ELECTRICAL SERVICE GUTTER MOUNTED VERY LOW CLOSE TO FLOOR. ELECTRICAL CONTRACTOR SHALL FIELD OPEN WIREWAY AND SEE AND CHECK WIRING/BUSSING AND VERIFY THAT THERE IS NO WATER FLOOD DAMAGE. REFURBISH GUTTER AS REQUIRED IF DAMAGED DETECTED.
4. EXISTING 400A, NEMA3R SERVICE ENTRANCE MAIN DISCONNECT SWITCH HEAVILY RUSTED AT BOTTOM AND A KNOCKOUT BUSTED CREATING A ELECTROCUTING HAZARD. ELECTRICAL CONTRACTOR SHALL DISCONNECT REMOVE AND REPLACE.
5. ALL ELECTRICAL GEAR AND PHONE EQUIPMENT IS EXISTING TO REMAIN.

PLAN NORTH TRUE NORTH

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
713.914.9260 f
TBPE Firm Registration No. 13002

JONES*DBR Project Number 1726.000

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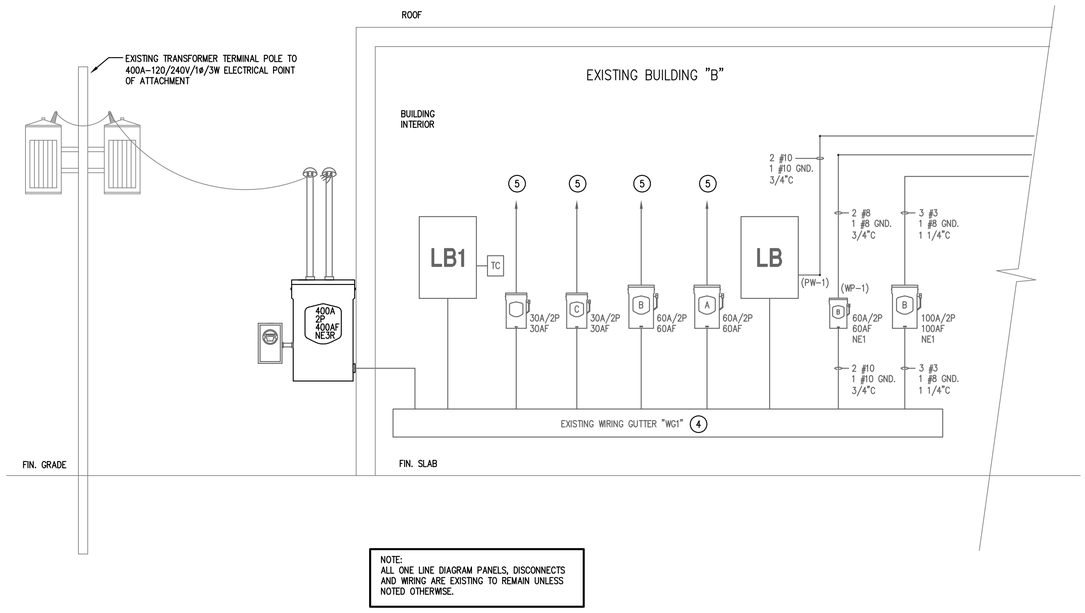
BUILDING "B" POWER PLAN

SHEET NUMBER
EP211-B

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



NOTE:
ALL ONE LINE DIAGRAM PANELS, DISCONNECTS AND WIRING ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

1 / E302-B EXISTING ELECTRICAL PARTIAL RISER DIAGRAM (BLDG. B)

NOT TO SCALE

ONE LINE DIAGRAM (BLDG. B) KEYED NOTES:

LOCAL POWER CO. TRANSFORMER POLE. REFER TO THE SITE PLAN.

EXISTING FREESTANDING SERVICE ENTRANCE POWER WIREWAY GUTTER AND RELATED EQUIPMENT ELECTRICAL GEAR TO REMAIN.

EXISTING 120/240V/1PH/3W~ ELECTRICAL MAIN SERVICE DISCONNECT TO BE DISCONNECTED AND REPLACED.

EXISTING ELECTRICAL SERVICE WIREWAY GUTTER TO REMAIN.

FEEDERS TO EXISTING LOAD.

JONES*DBR
STATE OF TEXAS HUB FIRM
9990 Richmond Avenue
South Building, Suite 310
Houston, Texas 77042
713.914.4333 p
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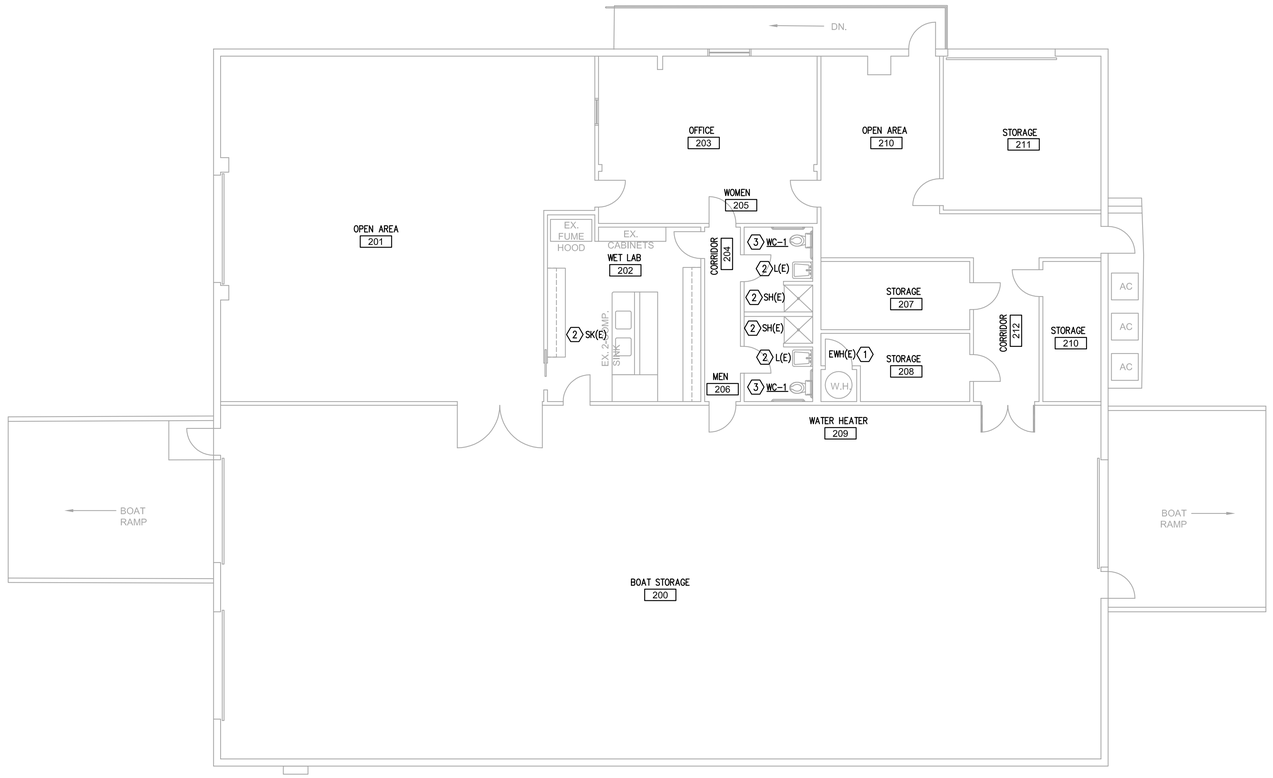
SHEET TITLE
BUILDING "B" ELECTRICAL RISER DIAGRAM

SHEET NUMBER
E302-B

PERCENTAGE: 100% CD PHASE - ISSUED FOR BID



1 P211-B **LAB PLUMBING PLAN**

1/8"=1'-0"

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO MAKE THE NECESSARY CHANGES AND MODIFICATION TO EXISTING PLUMBING FIXTURE/FIXTURES BEING REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DEMOLITION NOTES, DIMENSIONED FLOOR PLANS, MOUNTING HEIGHTS AND SCOPE OF WORK REQUIREMENTS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECT PLANS FOR ALL DIMENSIONED, MOUNTING HEIGHTS AND ADA REQUIREMENTS.
3. CONTRACTOR SHALL INSPECT EXISTING PLUMBING FIXTURE FOR DAMAGES/CRACKED.
4. CONTRACTOR SHALL FIELD VERIFY THAT ALL EXISTING PLUMBING FIXTURES ARE IN GOOD PROPER WORKING CONDITION AND PROVIDE ANY NECESSARY REPAIRS IF REQUIRED.

PLUMBING RENOVATION KEYED NOTES:

1. EXISTING WATER HEATER TO REMAIN.
2. EXISTING PLUMBING FIXTURE(S) TO BE CHECKED FOR ANY DAMAGE, CRACKS, AND ENSURE PROPER WORKING CONDITIONS, CONTRACTOR TO POLISH/CLEAN LIKE NEW.
3. CONTRACTOR SHALL REMOVE EXISTING WATER CLOSET AND RECONNECT NEW WATER CLOSET WC-1 TO EXISTING PLUMBING ROUGH-INS, PROVIDE ALL FINAL CONNECTIONS AND ANY NECESSARY ADJUSTMENT TO ENSURE A PROPER INSTALLATION PER CODE. SIZE AS NOTED ON PLAN. REFER TO ARCHITECTURAL PLANS FOR ALL REQUIRED MOUNTING HEIGHTS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WST & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1"	---	AMERICAN STANDARD 2034.014 FLOOR MOUNTED WATER CLOSET WHITE WITH FLUSH TANK, VC, 1.6GPF, ELONGATED SIPHON ACTION JETTED BOWL, 2-3/8" FULLY-GLAZED TRAPWAY. TRIP LEVER 73872-0020A, ELONGATED SEAT WITH COVER AND SLOW CLOSE SNAP-OFF HINGES #5321.110. MEETS ADA GUIDELINES AND ANSI A117.1.

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ITEMS PROVIDED UNDER SEPARATE DIVISIONS.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ELEVATIONS OF PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING UTILITY LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE TO ALERT ARCHITECT AND ENGINEER OF GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION OF ANY WORK.
5. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AS EXISTING AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE TO BE REQUIRED, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.

GENERAL NOTES - PLUMBING FIXTURES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS THROUGH ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH PROPOSED ELEVATIONS AND FINISHED SURFACES.
2. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
3. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
5. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL
6. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
7. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.

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