

# **DESIGN TEAM**

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STRUCTURAL ENGINEER

# **PROJECT**

# HUNTSVILLE STATE PARK

REPAIRS TO CCC BUILT STRUCTURES BOATHOUSE

PROJECT NO: 122865

DATE: 08-28-2020

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INTERIOR ELEVATIONS **DETAILS DETAILS** DETAILS SCHEDULES

SYMBOLS AND ABBREVIATIONS FLOOR PLAN - MECHANICAL SCHEDULES AND DETAILS - MECHANICAL DEMOLITION FLOOR PLAN - ELECTRICAL **DEMOLITION FLOOR PLAN - LIGHTING** 

FLOOR PLAN - ELECTRICAL FLOOR PLAN - LIGHTING **DETAILS AND SCHEDULES - ELECTRICAL** 

TYPICAL CONCRETE DETAILS TYPICAL CONCRETE DETAILS TYPICAL STEEL DETAILS TYPICAL PHOTOGRAPHS

# **SCOPE OF WORK**

BASE BID: ACCESSIBLE SIDEWALK, SITE DRAINAGE MODIFICATIONS, STRUCTURAL WORK, ARCHITECTURAL WORK AT BOATHOUSE. MASONRY PATIO WALL AT RAVEN LODGE.

ADD ALTERNATE #1: MECHANICAL, ELECTRICAL AND PLUMBING WORK. (REFER TO SHEET A0.01, A1.02A, ME1.0, M2.1, M5.1, ED2.1, ED2.2, E2.1, E2.2, E5.1)

ADD ALTERNATE #2: ROOF REPLACEMENT AND CUPOLA REPAIRS. (REFER TO SHEET A1.03, A6.02) ADD ALTERNATE #3: NORTH WALK. (REFER TO SHEET C.1.02)

# **BUILDING CODE SUMMARY**

INTERNATIONAL CODE COUNCIL ADOPTIONS\*

BUILDING CODE INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL BUILDING CODE 2015 STRUCTURAL CODE INTERNATIONAL PLUMBING CODE 2015 PLUMBING CODE INTERNATIONAL MECHANICAL CODE 2015 MECHANICAL CODE INTERNATIONAL FUEL GAS CODE 2015 INTERNATIONAL RESIDENTIAL CODE 2015 RESIDENTIAL CODE

INTERNATIONAL EXISTING BUILDINGS CODE 2015 vii EXISTING BUILDINGS \*Note: The International fire code specifically excluded from this list/not applicable to TPWD sites and facilities, however fire protection should be followed as stated in all other codes listed.

NATIONAL FIRE PROTECTION ASSOCIATION

ELECTRICAL CODE NATIONAL ELECTRICAL CODE 2017 FIRE CODE NFPA-1 2015 iii LIFE SAFETY CODE NFPA-101 2015

STATE ENERGY CONSERVATION OFFICE/TEXAS COMPTROLLERS OFFICE ENERGY CODES FOR STATE BUILDINGS Title 34, Part 1, Ch. 19, Sb.C, Rule 19.31

CERTIFICATION FOR RESIDENTIAL AND NONRESIDENTIAL BUILDINGS REQUIRED BY ARCHITECT/ENGINEER

US DEPT. OF JUSTICE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN US DEPT. OF JUSTICE, ARCHITECTURAL BARRIERS ACT, ACCESSIBILITY GUIDELINES FOR OUTDOOR DEVELOPED AREAS ON FEDERAL LANDS-EFFECTIVE NOVEMBER 25, 2013. 2012 TEXAS ACCESSIBILITY STANDARDS, ELIMINATION OF ARCHITECTURAL BARRIERS, TEXAS GOVERNMENT CODE, CHAPTER 469.



# TEXAS PARKS AND WILDLIFE

INFRASTRUCTURE DIVISION

4200 SMITH SCHOOL ROAD · AUSTIN, TEXAS 78744-3292



**CIVIL ENGINEER** 

ACES Engineering, Inc. 936-760-3260

dfuller@americances.com

Dane Fuller, P.E.







**TEXAS** 

PARKS 8

WILDLIFE

PROJECT NUMBER: 122865 -DRAWING NUMBER: 122865 - Cover.dwa

**RELEASED** 

**SOLICITATION** 

INFRASTRUCTURE

**FOR** 

**DIVISION** 



Hand Wash

Insulation

Interior

INSUL

KO KP

KPD KSF

Inside Diameter

Kips (1000 LB)

Kips Per Square Foot

Knock-Out

Kickplate

Keypad

With

Wood

Without

Waterproof(ing)

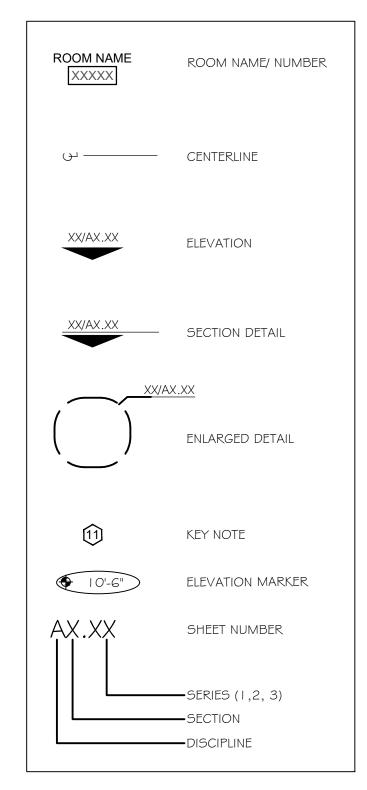
Welded Wire Fabric

Wide Flange

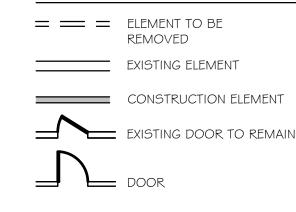
Wind Load

Work Point

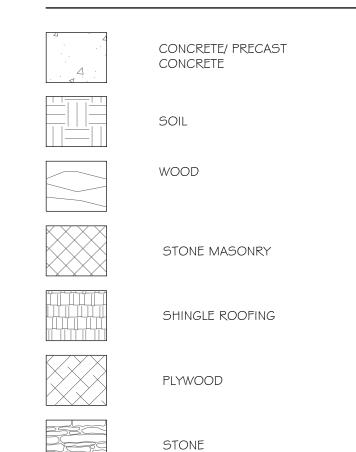
# DRAWING SYMBOLS



# **LEGEND**



# MATERIALS LEGEND



# **GENERAL NOTES**

- HISTORIC PROTECTION- THE EXISTING 1940 BOATHOUSE STRUCTURE IS LOCATED WITHIN HUNTSVILLE STATE PARK AND THE PARK IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER AS A HISTORIC DISTRICT. PROTECT THE HISTORIC MATERIALS AND "FABRIC" OF THIS HISTORIC SITE AND BUILDING DURING THE WORK OF THIS CONTRACT. IF HISTORIC MATERIALS ARE ENCOUNTERED IN THE COURSE OF REMOVALS, NOTIFY THE ARCHITECT IMMEDIATELY. THE ARCHITECT WILL DETERMINE IF THE MATERIAL SHOULD BE REMOVED AND IF SO, IF THE MATERIAL WILL BE SALVAGED. IF ARTIFACTS OR STRUCTURES ARE ENCOUNTERED DURING ANY EXCAVATIONS. STOP WORK IN THAT AREA AND NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
- 2. BUILDING CODES AND ORDINANCES SHALL GOVERN CONSTRUCTION ON THE PROJECT AND SHALL TAKE PRECEDENCE OVER DRAWINGS AND SPECIFICATIONS.
- 3. HISTORIC DESIGNATIONS REQUIRE THAT WORK MEET THE STANDARDS AND GUIDELINES, OF THE "SECRETARY OF THE INTERIOR STANDARDS FOR REHABILITATION," AS PUBLISHED BY THE NATIONAL PARK SERVICE.
- 4. EXISTING CONSTRUCTION- MATERIALS AND ELEMENTS ARE SO DESIGNATED. THE TERMS "RESTORE". "REPAIR". "REFINISH", "REPOLISH", AND "REPLACE" DESIGNATE WORK TO MATERIALS. ELEMENTS AND CONSTRUCTION THAT ARE EXISTING. WORK NOT DESIGNATED AS EXISTING SHALL BE PRESUMED TO BE NEW WORK.
- 5. EXISTING CONDITIONS INFORMATION CONTAINED WITHIN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS DOES NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY TO VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE EXECUTION OF WORK. EXISTING CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, PLUMBING, LIFE SAFETY DEVICES AND ANY OTHER REQUIRED ITEMS.
- 6. NON-CONFORMING EXISTING CONDITIONS NOTIFICATION- IF CONDITIONS ARE ENCOUNTERED THAT DIFFER FROM THOSE CONTAINED IN THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY, PROVIDING SKETCHES AND PHOTOGRAPHS. THE CONTRACTOR SHALL GENERALLY ASSIST THE ARCHITECT BY PROVIDING PROMPT AND ACCURATE INFORMATION ABOUT THE DIFFERING EXISTING CONDITIONS ENCOUNTERED. THE CONTRACTOR WILL NOT BE REIMBURSED FOR WORK DONE WITHOUT THE CONSENT OF THE ARCHITECT AND OWNER.
- 7. SELECTIVE DEMOLITION- PROTECT THE EXISTING MATERIALS TO REMAIN DURING THE WORK OF THIS CONTRACT. SELECTIVE DEMOLITION WORK AND REMOVALS WILL BE UNDERTAKEN USING THE LEAST DAMAGING MEANS AND METHODS POSSIBLE, WITH INTENT TO SALVAGE EXISTING MATERIALS FOR REUSE, WHERE INDICATED, OR FOR DELIVERY TO THE OWNER. THE ARCHITECT HAS ENDEAVORED TO PROVIDE AS MUCH INFORMATION AS POSSIBLE ABOUT THE EXISTING CONDITIONS AFFECTING THE WORK, INCLUDING THE DEMOLITION WORK THAT IS NECESSARY TO ACCOMPLISH THE WORK. THIS INFORMATION IS NOT INTENDED TO MEAN THAT DEMOLITION IS LIMITED ONLY TO THOSE AREAS INDICATED. THE CONTRACTOR WILL INCLUDE DEMOLITION WORK AS REQUIRED TO EXECUTE THE WORK.
- 8. SALVAGE FOR RE-USE SHALL INCLUDE THE CAREFUL REMOVAL, CATALOGUING, AND TAGGING, DOCUMENTATION OF ORIGINAL LOCATION, PACKAGING AND CRATING FOR REINSTALLATION AT A LATER POINT DURING THE WORK.
- 9. CUTTING \$ PATCHING- PATCH AND REPAIR EXISTING MATERIALS SHOWN TO REMAIN AFTER DEMOLITION OR REMOVALS TO MATCH EXISTING OR ADJACENT SURFACES TO A CHANGE IN PLANE. CUTTING AND PATCHING WORK NECESSARY TO COMPLETE THE WORK SHALL BE PROVIDED, AS REQUIRED.
- 10. FIELD VERIFICATION- SHALL BE UNDERTAKEN BY THE CONTRACTOR AND IDENTIFIED ON SUBMITTALS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, PRODUCTS AND SAMPLES. SUBMITTALS WITHOUT FIELD VERIFICATION WILL BE RETURNED AS INCOMPLETE
- II. SUBMITTALS- PROJECT SUBMITTALS WILL BE MADE USING TPWD STANDARD SUBMITTAL FORM & PROCEDURES. THE PROCEDURES INCLUDE PROVISION OF AND DISTRIBUTION OF COPIES BY THE CONTRACTOR OF SUBMITTALS BEFORE AND AFTER REVIEW BY THE ARCHITECT.
- 12. TEMPORARY FENCING- TEMPORARY FENCING OR OTHER FORMS OF SECURING THE PROJECT SITE ARE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED CONSTRUCTION FENCING AND SILT FENCE SHOWN ON SHEET AO.OI, IT IS INTENDED AS A GUIDE TO DESCRIBE LIMITATIONS THAT MAY BE PLACED UPON THE CONTRACTOR WITH RESPECT TO THE WORK AREA. UTILITY, HARDSCAPE OR LANDSCAPE WORK MAY NEED TO BE PERFORMED OUTSIDE OF THE FENCED AREA.
- 13. BLOCKING AND FRAMING NEEDED TO PERFORM THE WORK SHALL BE PROVIDED AS REQUIRED.
- 14. SHORING, SCAFFOLDING AND ACCESS TO THE WORK-REQUIRED DURING RESTORATION, NEW CONSTRUCTION OR SELECTIVE DEMOLITION IS CONSIDERED THE CONTRACTOR'S MEANS AND METHODS AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 15. MANUFACTURER'S RECOMMENDATIONS- MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS, INSTRUCTION AND REQUIREMENTS.
- 16. PROPOSED CHANGES & CHANGES- NO DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE TO BE MADE WITHOUT PROPOSING CHANGES TO THE ARCHITECT AND OWNER. PROPOSED CHANGES WITH COST OR SCHEDULE IMPACTS SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT BY THE CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS.
- 17. TO MATCH EXISTING- TO MATCH EXISTING IS DEFINED TO MEAN TO MATCH HISTORIC ELEMENT IN RESPECT TO MATERIAL, STRENGTH, COLOR, TEXTURE, APPEARANCE, SIZE AND CONFIGURATION. EXISTING MATERIALS ARE ASSUMED ORIGINAL UNLESS NOTED OTHERWISE.
- 18. THE WORDS "RESTORATION", "STABILIZATION" AND "PRESERVATION" ARE SYNONYMOUS FOR THE PURPOSES OF THESE CONTRACT DOCUMENTS.
- 19. TPWD WILL ASSIGN A MONITOR TO WATCH EXCAVATIONS AT LODGE PATIO WALL WORK. WORK WILL CEASE IF BURIED ARCHEOLOGICAL DEPOSITS OR UNKNOWN CULTURAL RESOURCES ARE ENCOUNTERED. TPWD CULTURAL RESOURCES COORDINATOR WILL BE CONACTED AND ARTIFACTS DOCUMENTED BEFORE EXCAVATION CAN
- 20. PRIOR TO MOBILIZATION, INSTALL EROSION CONTROL AND TREE PROECTION AT AREAS OF WORK, REF. ALSO CIVIL.
- 21. PRIOR TO START OF CONSTRUCTION, LOCATE AND UNCOVER UTILITY TIE-IN AND CONNECTION POINTS TO VERIFY LOCATION AND ELEVATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

- 22. SOUTH ENTRANCE CONTRACTOR SHALL VERIFY SPOT GRADES AT PAVING, STEPS, DOORS, AND EXISTING GRADE AND TRANSMIT THIS INFORMATION AT THE BEGINNING OF CONSTRUCTION TO THE ARCHITECT FOR FINALIZATION OF DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. SLOPE SURFACES TO DRAIN, TYP.
- 23. ARCHITECT'S DRAWINGS DISCLAIM ANY AND ALL RESPONSIBILITY AND LIABILITY FOR THE ABATEMENT WORK. PROFESSIONAL SERVICE INDUSTRIES, INC. IS SOLELY RESPONSIBLE FOR THE ABATEMENT SERVICES AND PLANS. PROFESSIONAL SERVICES INDUSTRIES, INC DOCUMENTS ARE PART OF VOLUME 2 OF THE PROJECT MANUAL.





DATE: 08-28-2020 DESIGNED BY: GJ **m**coy

COLLABORATIVE

McCoy Collaborative

Preservation Architecture, PLLC

3200 Main Street #3.6

Dallas, Texas 75226

Ph: 214.977.9118

**REVISED: REVISED:** 

**REVISED:** 

DRAWN BY: GJ

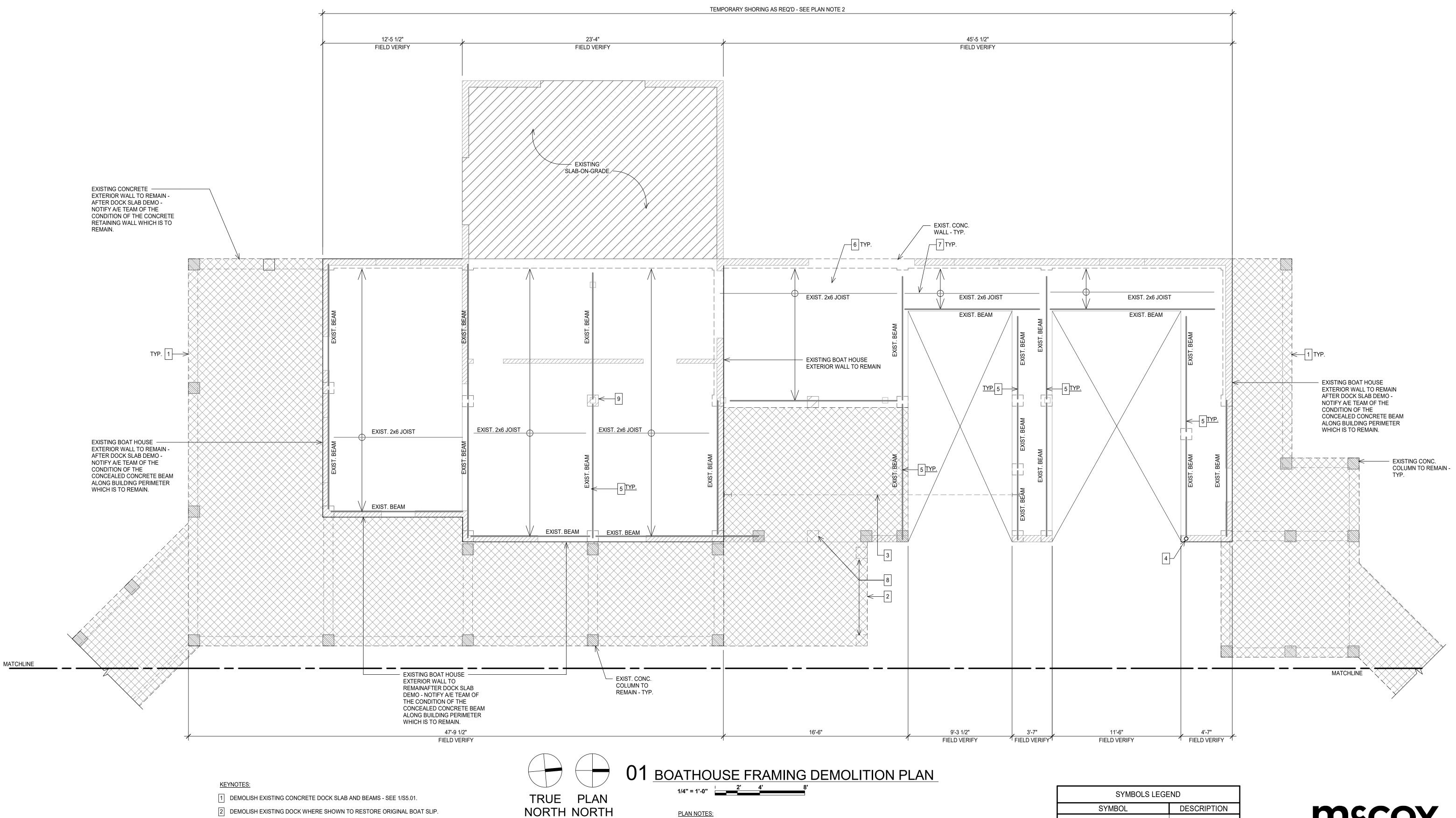
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1002

**SHEET TITLE GENERAL NOTES** SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

122865 - G101.dwg



2 DEMOLISH EXISTING DOCK WHERE SHOWN TO RESTORE ORIGINAL BOAT SLIP.

3 DEMOLISH EXISTING STEEL HOIST FRAMING IN WALLS AND ROOF.

4 DEMOLISH EXISTING STEEL PIPE COLUMN - SEE 5/S5.01.

5 REMOVE EXISTING WOOD BEAMS UNDER BOATHOUSE - SEE 3/S5.01.

6 DEMOLISH DETERIORATED TONGUE & GROOVE WOOD FLOORING - SEE 4/S5.01.

DEMOLISH DETERIORATED WOOD FLOOR JOISTS - SEE 4/S5.01.

DEMOLISH EXISTING DOCK COLUMN. FIELD VERIFY LOCATION OF EXISTING COLUMN AND NOTIFY A/E TEAM PRIOR TO DEMOLITION.

9 DEMOLISH EXISTING DETERIORATED COLUMN. FIELD VERIFY LOCATION OF EXISTING COLUMN AND NOTIFY A/E TEAM PRIOR TO DEMOLITION.

# PLAN NOTES:

1. CONTRACTOR SHALL INSTALL A TEMPORARY BULKHEAD IN LAKE AS REQUIRED TO PERFORM DEMOLITION AND REPAIRS. SEE A0.01 AND C1.02 AND SPECIFICATIONS (DELEGATED DESIGN).

2. CONTRACTOR SHALL SHORE EXISTING STRUCTURE AS REQUIRED TO PERFORM DEMOLITION AND REPAIRS.

SYMBOLS LEGEND			
SYMBOL	DESCRIPTION		
	DEMOLISH		
	EXISTING STRUCTURE		

SHOWN ON THESE DRAWINGS.

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL

DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE

CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING

BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

**M**cCOY COLLABORATIVE

McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118

CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201

972.392.7340

PROJECT NO: 4160267

SHEET NUMBER DALLAS, TEXAS 75207 JQIENG.COM TBPE FIRM F-7986

SHEET TITLE **BOATHOUSE** DEMOLITION

DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS

REVIEWED BY: CB

FRAMING

PLAN

REVISED:

REVISED:

REVISED:

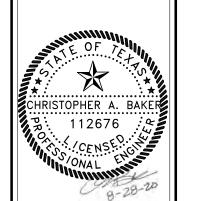
PARKS &

WILDLIFE

100% CD DOCUMENT



100% CD DOCUMENT



DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB REVISED:

REVISED:

REVISED:

SHEET TITLE **BOAT DOCK** DEMOLITION

PLAN

SHEET NUMBER

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY

DEMOLISH EXISTING CONCRETE DOCK SLAB AND BEAMS - TYPICAL - SEE 1/S5.01.

KEYNOTES:

DEMOLISH APPROXIMATELY 11"+/- OF TOP OF DOCK COLUMNS ON NORTH DOCK TO LEVEL SURFACE - SEE ARCH'L.

AND SPECIFICATIONS (DELEGATED DESIGN). 2. CONTRACTOR SHALL SHORE STRUCTURE AS REQUIRED TO PERFORM DEMOLITION AND REPAIRS.

1. CONTRACTOR SHALL INSTALL A TEMPORARY

BULKHEAD IN LAKE AS REQUIRED TO PERFORM

DEMOLITION AND REPAIRS. SEE A0.01 AND C1.02

TRUE PLAN

PLAN NOTES:

NORTH NORTH

1/4" = 1'-0"

2'
4'

BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 972.392.7340 DALLAS, TEXAS 75207 JQIENG.COM PROJECT NO: 4160267 TBPE FIRM F-7986

**M**cCOY

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# **GENERAL NOTES DEMOLITION PLAN**

- 1. REFER ALSO TO GENERAL PROJECT NOTES ON G1.01. 2. REFER TO STRUCTURAL DRAWINGS.
- 3. REFERENCE OTHER DISCIPLINES FOR ADDITIONAL DEMOLITION WORK, AND FOR WORK THAT MAY REQUIRE DEMOLITION OF ARCHITECTURAL ELEMENTS.
- 4. WOOD FRAMING IS LOAD-BEARING INS SOME AREAS. SHORE, RE-SUPPORT AND TEMPORARILY SUPPORT ELEMENTS TO REMAIN THAT ARE AFFECTED BY ADJACENT DEMOLITION OPERATIONS.
- 5. CLEAN WOOD FRAMING AND DEBRIS AT UNDERSIDE
- 6. REMOVE CARPET AND PLYWOOD AT FLOOR AND
- REPLACE WOOD SUBFLOOR, REF. STRUCTURAL. 7. REMOVE PLYWOOD AT WALLS AND CEILINGS OF ROOMS 101 AND 102.

# **LEGEND**

EXISTING WALLS TO REMAIN

EXISTING DOOR TO REMAIN

= ELEMENT TO BE REMOVED

VILLI CCC BOAT

TEXAS

PARKS &

**WILDLIFE** 

DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: NM REVISED:

**M**cCOY

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Dallas, Texas 75226 Ph: 214.977.9118

NORTH NORTH

REVISED:

REVISED:

SHEET TITLE DEMOLITION PLAN

SHEET NUMBER

D1.01

122865 - D101.dwg

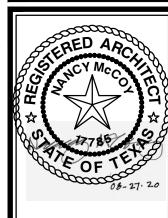
01 DEMOLTION PLAN SCALE: 1/4"=1'-0"

- REMOVE PORTION OF WALL FOR

WINDOW OPENING

EXISTING

CASEWORK ——





DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: NM REVISED:

REVISED:

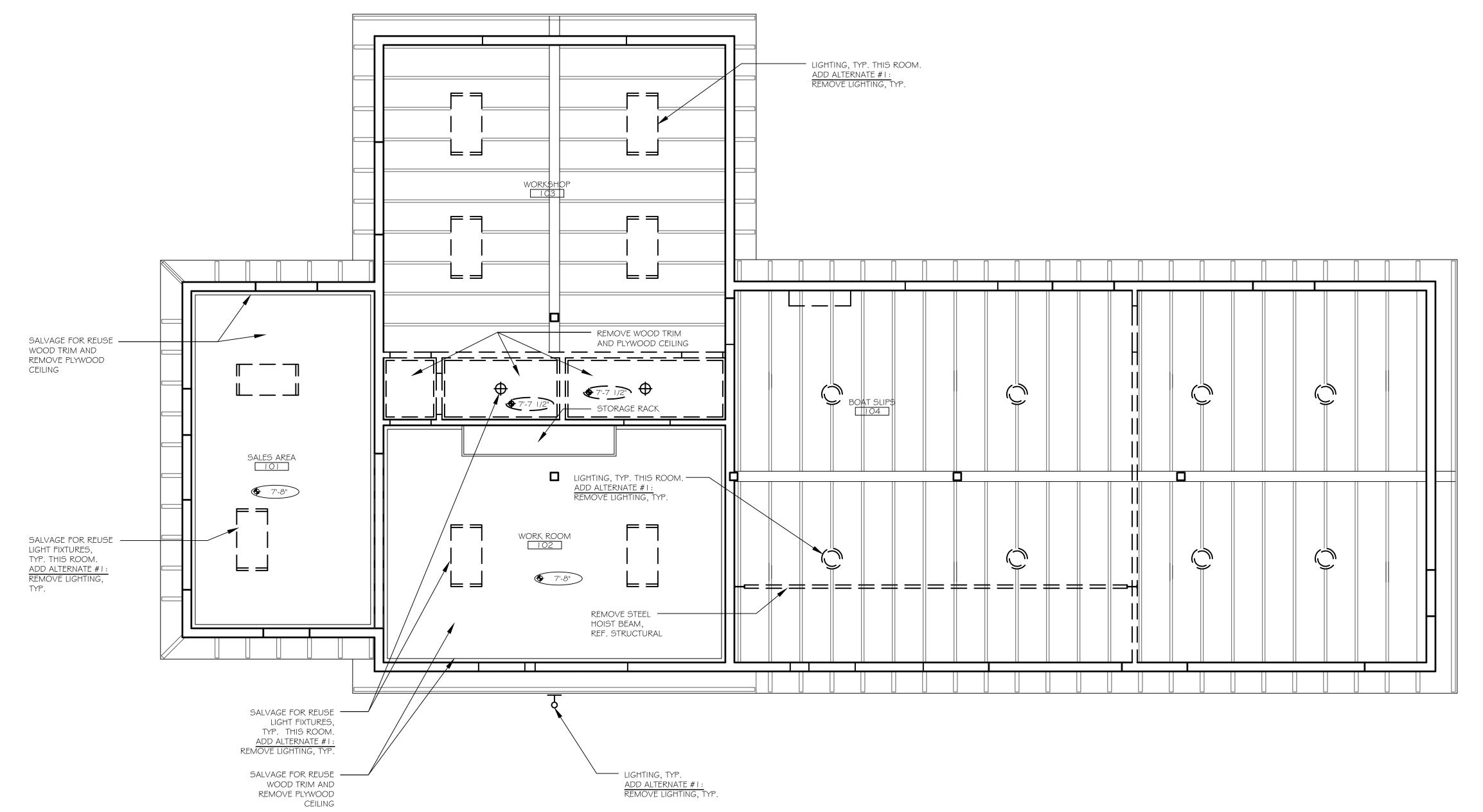
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SHEET TITLE

DEMOLITION REFLECTED CEILING PLAN

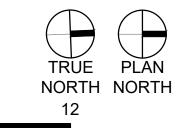
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122865 - D102.dwg



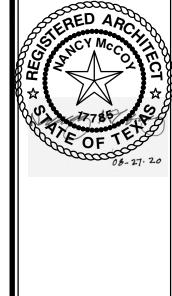
**M**cCOY COLLABORATIVE

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01 DEMOLTION REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"





DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: NM REVISED:

REVISED: REVISED:

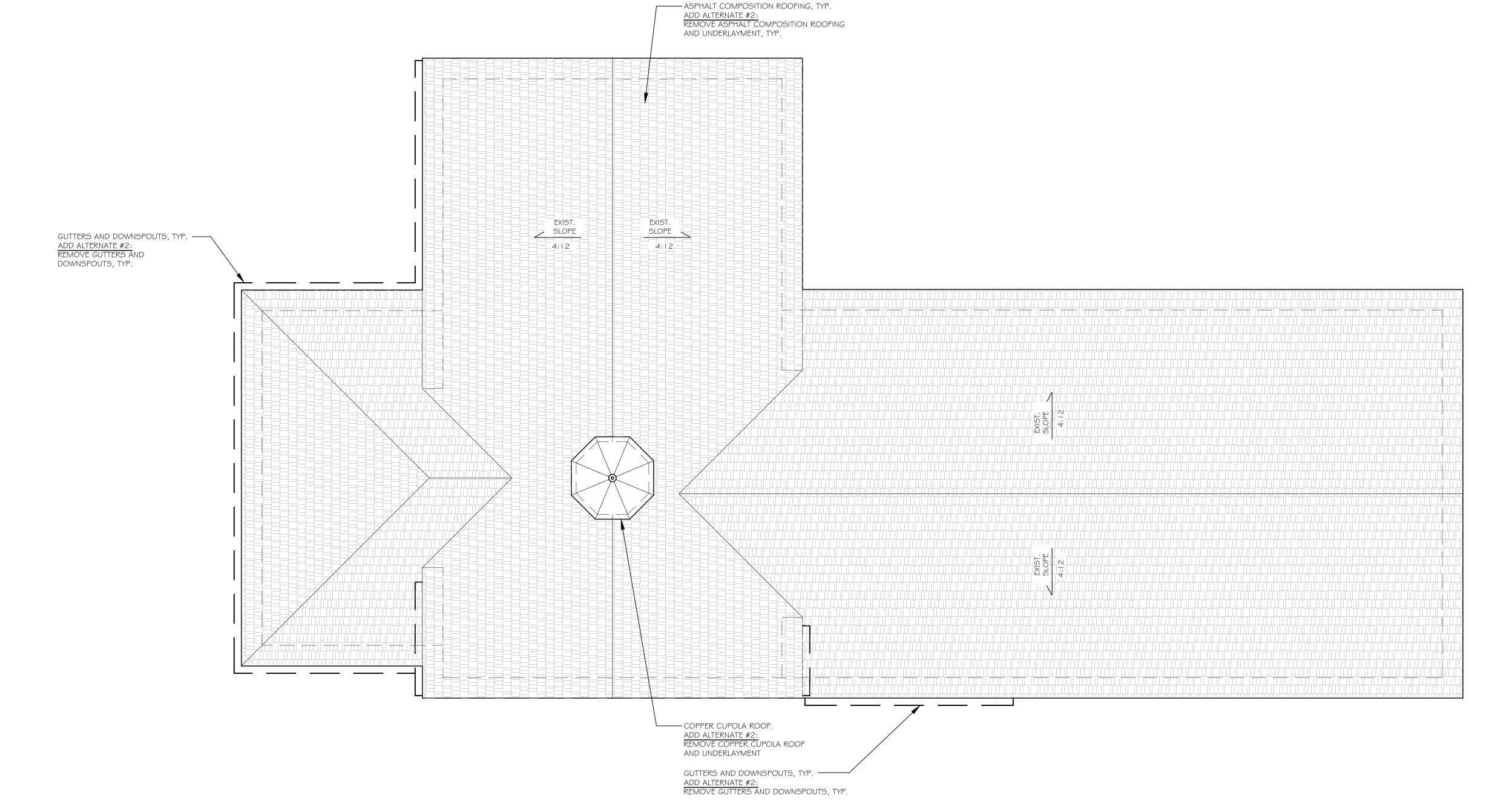
SHEET TITLE

DEMOLITION ROOF PLAN

SHEET NUMBER D1.03

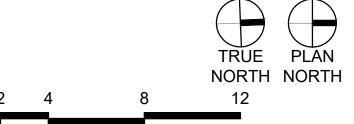
122865 - D103.dwg

**O 1** DEMOLTION ROOF PLAN SCALE: 1/4"=1'-0"



MCCOY COLLABORATIVE

McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118







DESIGNED BY: CDF DRAWN BY: SS REVIEWED BY: CDF REVISED: REVISED:

REVISED:

SHEET TITLE CIVIL

DEMOLITION PLAN McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118

**MċCOY** 

P.O. Box 3220 \* Conroe, Texas 77305 \* FRN - 7349 936-760-3260 \* 936-760-3270 (Fax) \* www.americances.com 01 - DEMOPLAN - 116717-051.dwg

3.601 N21° 11' 31.97"W (3806276.8976,10220148.5993)

Line Table: Alignments

Start Point

(3806163.6957,10219952.8728)

(3806226.8043,10219977.7116)

(3806235.7066,10219931.8724)

(3806256.8093,10219951.1673)

(3806273.4487,10219981.7573)

(3806311.5235,10220058.5638)

(3806307.9548,10220105.8399)

(3806297.0901,10220127.7733)

**End Point** 

**End Point** 

(3806144.7093,10220422.8395)

(3806274.7025,10220314.9654)

(3806273.0952,10220269.3126)

(3806217.0646,10219983.6417) | 0+36.52 | 0+98.13

(3806224.9325,10219937.0625) 1+12.03 1+52.73

(3806254.9701,10219948.7329) 1+67.91 1+93.51

(3806266.9123,10219972.5069) 1+96.58 2+20.19

(3806288.3505,10219997.1264) 2+31.57 2+52.98

(3806309.5612,10220098.9032) 3+20.51 3+60.90

(3806301.1012,10220121.7597) 3+68.06 3+85.39

(3806276.8976,10220148.5993) 3+92.66 4+21.67

(3806274.6039,10220316.6180) | 2+21.55 | 2+23.22

(3806148.6638,10219979.8493) | (3806152.5671,10219958.0485) | 0+00.00 | 0+22.15

START

START END

1+07.15 | 1+37.29

2+23.22 | 2+24.88

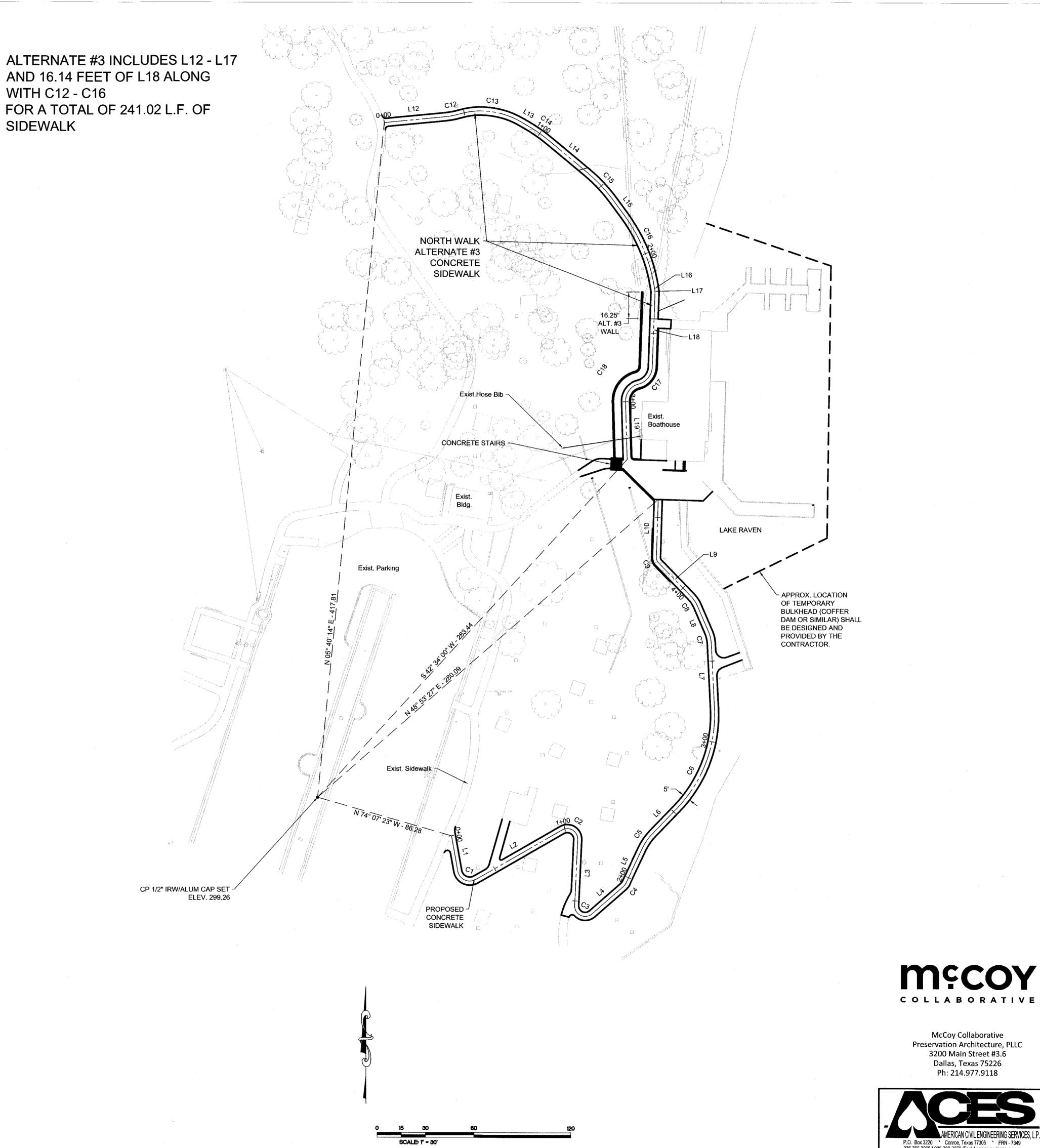
2+24.88 2+70.56

(3806275.6304,10220151.8677) | 4+21.67 | 4+25.27

END

END

	Curve Table: Alignments						
Curve #	Radius	Length	Chord Direction	Start Point	End Point	START	END
C12	51.060	9.465	N79° 12' 56.63"E	(3806144.7093,10220422.8395)	(3806153.9935,10220424.6079)	0+37.93	0+47.39
C13	48.235	38.745	S83° 04' 59.74 <b>"</b> E	(3806153.9935,10220424.6079)	(3806191.4307,10220420.0664)	0+47.39	0+86.14
C14	99.000	17.109	S55° 29' 27.44"E	(3806194.8277,10220418.1399)	(3806208.9089,10220408.4590)	0+90.04	1+07.15
C15	99.000	24.276	S43° 30' 54.48"E	(3806232.1797,10220389.3032)	(3806248.8531,10220371.7424)	1+37.29	1+61.57
C16	99.000	47.769	S22° 40' 01.73"E	(3806256.1155,10220361.9243)	(3806274.3466,10220318.2712)	1+73.78	2+21.55
C17	11.500	14.851	S39° 00' 44.96"W	(3806273.0952,10220269.3126)	(3806264.3827,10220258.5584)	2+70.56	2+85.41
C18	10.500	14.217	S37° 13' 13.67"W	(3806264.3827,10220258.5584)	(3806256.4253,10220248.0827)	2+85.41	2+99.63







8-24-20

DATE: 08-28-2020 DESIGNED BY: CDF DRAWN BY: SS REVIEWED BY: CDF REVISED: REVISED:

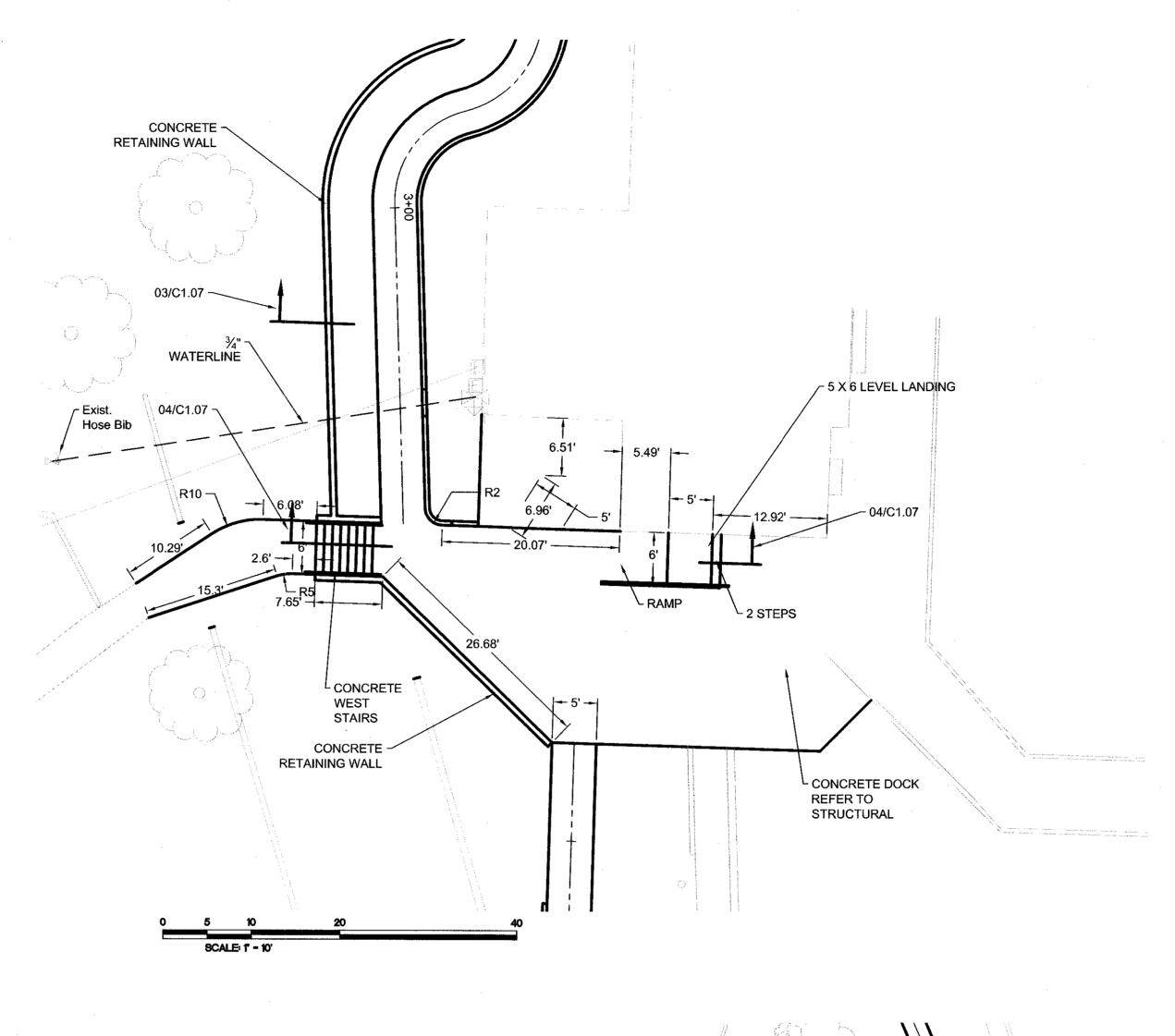
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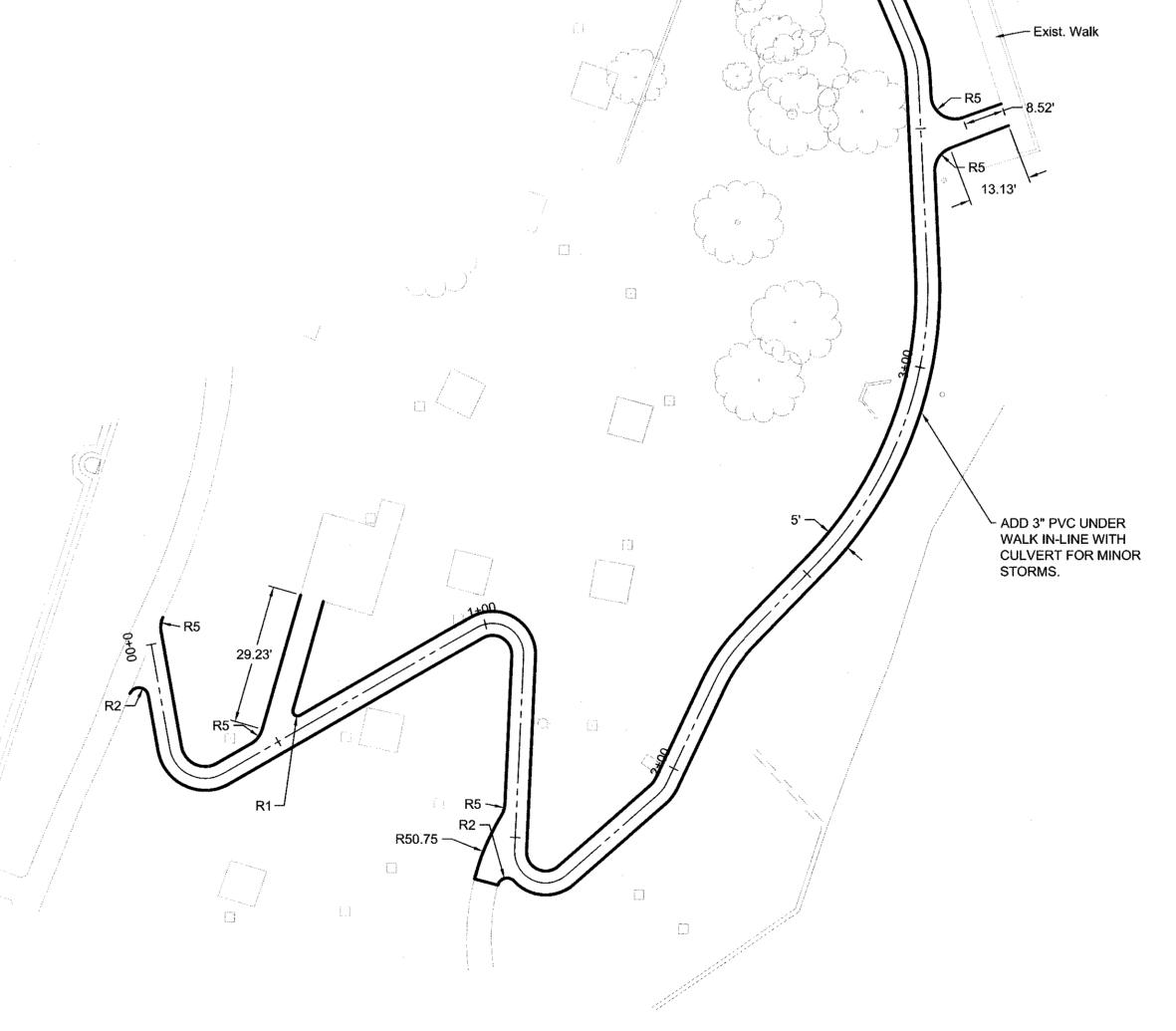
SHEET TITLE CIVIL LAYOUT

OVERALL SITE

SHEET NUMBER

P.O. Box 3220 \* Conroe, Texas 77305 \* FRN - 7349 936-760-3260 \* 936-760-3270 (Fax) \* www.americances.com 02 - GEN LAY AND NOTES - 116716-051.dwg

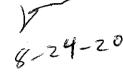




8CALE: 1" = 20"







HUNTSVILLE STATE PARK REPAIRS TO CCC BUILT STRUCTUR BOATHOUSE

DATE: 08-28-2020
DESIGNED BY: CDF
DRAWN BY: SS
REVIEWED BY: CDF
REVISED:
REVISED:

MCCOY COLLABORATIVE

SHEET TITLE CIVIL ENLARGED PLANS

REVISED:

SHEET NUM

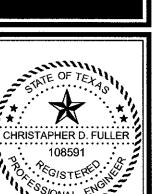
McCoy Collaborative
Preservation Architecture, PLLC
3200 Main Street #3.6
Dallas, Texas 75226
Ph: 214.977.9118

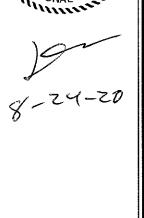
AMERICAN CIVIL ENGINEERING SERVICES, L.P.
P.O. Box 3220 \* Conroe, Texas 77305 \* FRN - 7349
936-760-3260 \* 936-760-3270 (Fax) \* www.americances.com

760-3260 \* 936-760-3270 (Fax) \* www.americances.com

02A - GEN LAY AND NOTES - 116716-051.dwg







HUNTSVILLE STATE PA REPAIRS TO CCC BUILT STRUCT BOATHOUSE PROJECT NUMBER: 122865

DATE: 08-28-2020
DESIGNED BY: CDF
DRAWN BY: SS
REVIEWED BY: CDF
REVISED:
REVISED:

SHEET TITLE

REVISED:

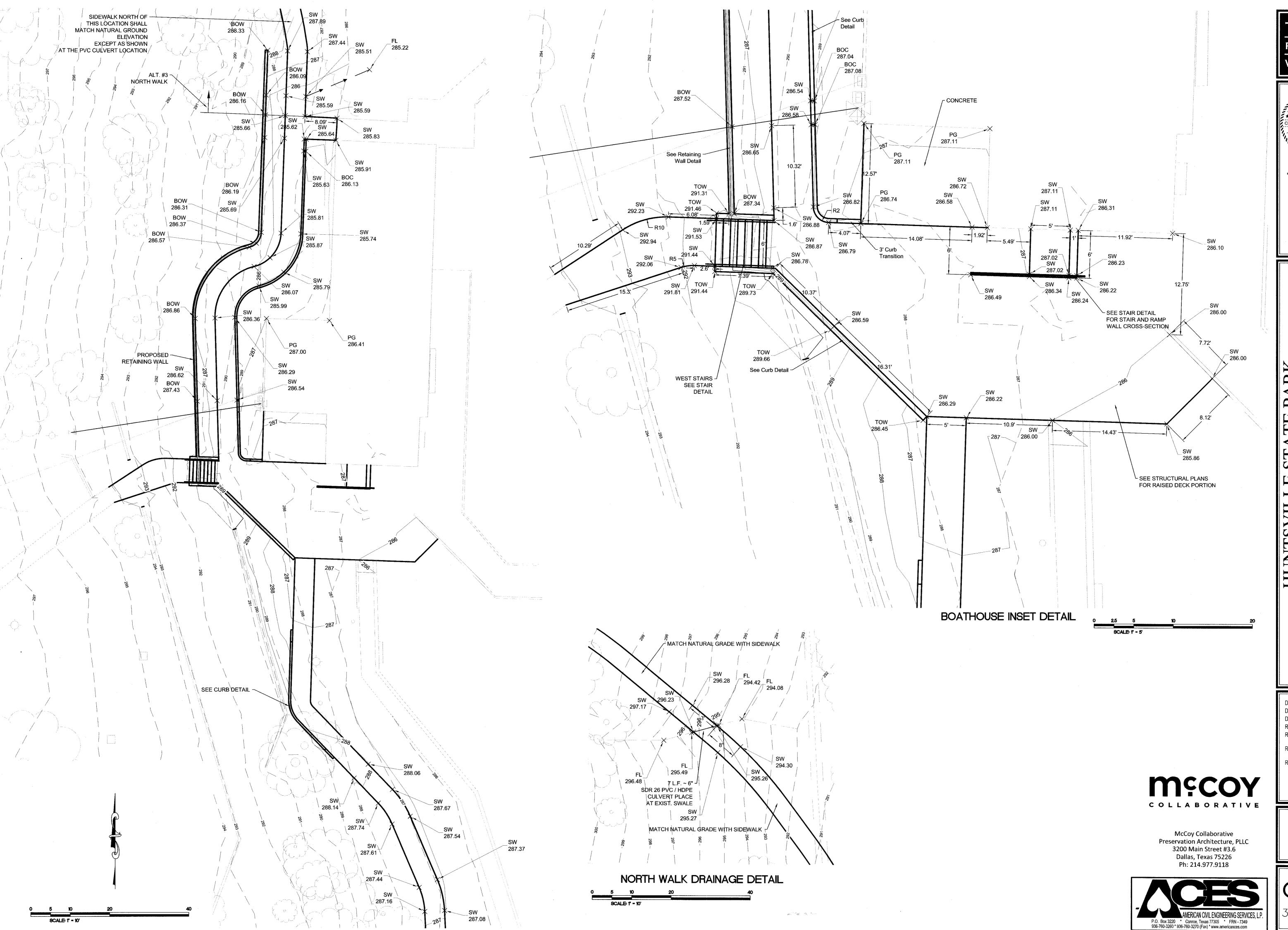
SHEET TITLE CIVIL PARTIAL GRADING PLAN

SHEET NUMBER
C.1.04

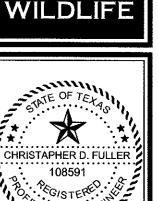
P.O. Box 3220 \* Conroe, Texas 77305 \* FRN - 7349 936-760-3260 \* 936-760-3270 (Fax) \* www.americances.com

**M**cCOY

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Preservation Architecture, PLLC
3200 Main Street #3.6
Dallas, Texas 75226
Ph: 214.977.9118







8-24-20

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HUNTSVILLE STATE PARK
REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

DATE: 08-28-2020
DESIGNED BY: CDF
DRAWN BY: SS
REVIEWED BY: CDF
REVISED:
REVISED:
REVISED:

SHEET TITLE CIVIL PARTIAL GRADING PLAN

SHEET NUMBER

C.1.05

03B - GRADING - 116716-051.dwg





7-24-20

REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

DATE: 08-28-2020
DESIGNED BY: CDF
DRAWN BY: SS
REVIEWED BY: CDF
REVISED:
REVISED:

REVISED:

SHEET TITLE CIVIL UTILITY PLAN

SHEET NUMBER
C.1.06

P.O. Box 3220 \* Conroe, Texas 77305 \* FRN - 7349 936-760-3260 \* 936-760-3270 (Fax) \* www.americances.com

INSTITUTE (ACI) SPECIFICATIONS (ACI 315).

COMPESSIVE STRENGTH AT 28 DAYS OF 4,000

PSI. USE OF CALCIUM CHLORIDE OR FLY ASH

IS PROHIBITED. CONCRETE SHALL BE PLACED

CONCRETE SHALL NOT BE PLACED IN FREEZING

AND CURED PER LATEST ACI SPECIFICATIONS.

12" X 12" MIRADRAIN OR EQUAL COMPOSITE DRAINAGE MAT

CENTERED AT EACH DRAIN AND ANCHORED TO BACK FACE.

36" X #4 @ 12" O.C. CORNER BARS AT ALL ANGLE POINTS

12" X 12" PERVIOUS BACKFILL CONTINUOUS BEHIND WALL.

7. 2-#4 HOOPS AT ALL 12" Ø OR LARGER PENETRATIONS.

WEATHER.

2" ø PVC DRAINS AT 10' O.C.

AND CONSTRUCTION JOINTS.

2,500 PSF MINIMUM

INSTALLED PER MOST RECENT AMERICAN CONCRETE

ASTM

(MINIMUM) A615 GRADE 60

A305

C - 150

C - 33

**SPECIFICATION** 

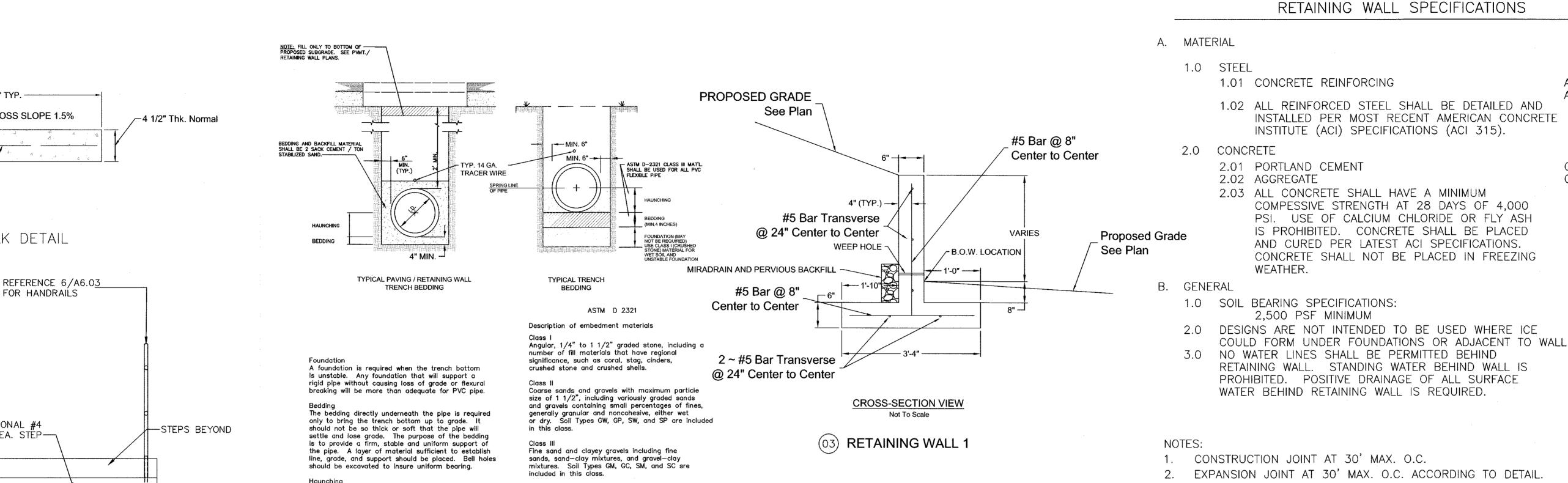
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SHEET TITLE CIVIL **DETAILS** 

SHEET NUMBER





Silt, silty clays, and clays, including inorganic clays and silts of medium to high plasticity and liquid

limits. Soil Types MH, ML, CH and CL are included

This class includes the organic soils OL, OH, and PT as well as soils containing frozen earth, debris, rocks larger than 1 1/2" in diameter, and other

foreign materials. These materials are not

recommended for bedding, haunching, or initial

in this class.

The haunching area is the most important in terms

This is the area that should be compacted to the

TYPICAL BEDDING

AND TRENCH DETAIL

FOR 3/4" WATER LINE

of limiting the deflection of a flexible pipe.

required or specific density.

BACKFILL ALONG SIDEWALKS 02

—& STEPS TYPICAL.

(ii) SECTION (iii) TYP STEPS

COMPACTED SELECT FILL

#4 BARS 12" O.C. EA. WAY

MAX/TYP. CROSS SLOPE 1.5%

SIDEWALK DETAIL

ADDITIONAL #4

BAR AT EA. STËP-

PROVIDE 8" WIDE ENDWALL EACH SIDE OF

STEPS UNDER HANDRAIL TO CLOSE SPACE

UNDER STEPS WHERE NECESSARY DEPENDING ON GRADES. EXTEND ENDWALL MIN. 12" BELOW NATURAL GRADE & REINFORCE ENDWALL WITH

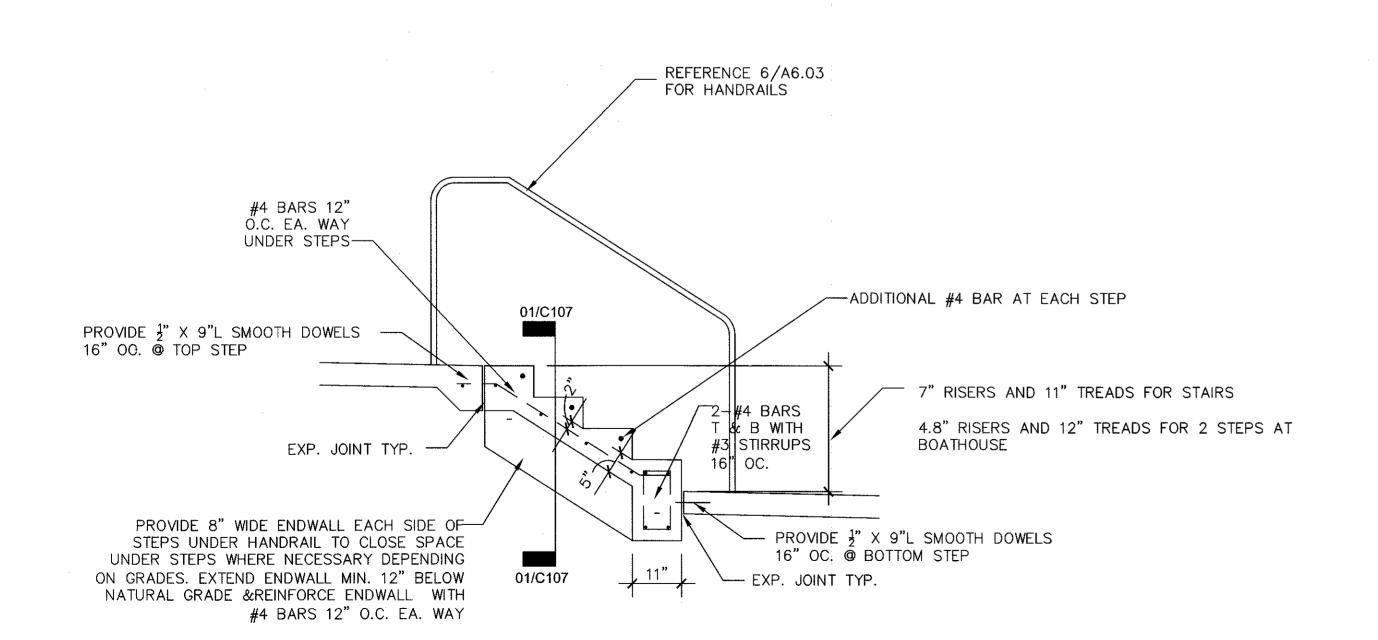
FOR HANDRAILS

#3 @ 18" O.C.-

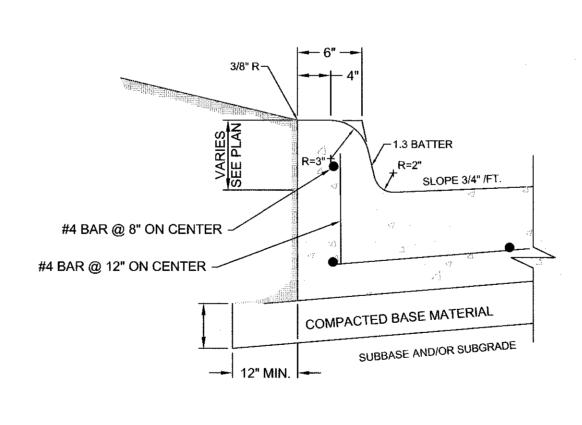
1/4" Chamfer

#4 BARS 12" O.C.

EACH WAY-



(04) SECTION (19) TYP STEPS



Curb and gutter concrete shall be Class "A" (3000 psi).

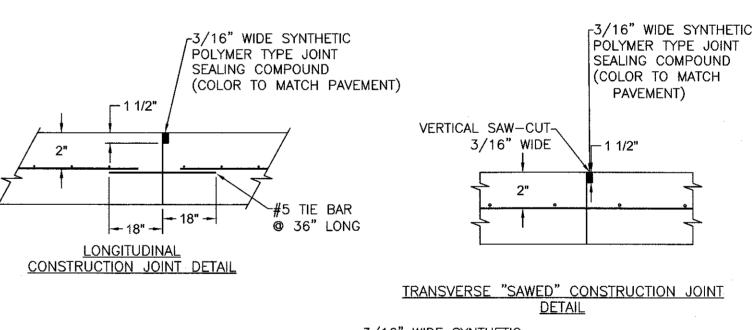
2. Reinforcing steel as shown.

NOTES:

3. Expansion joints at a maximum length of 60 feet

4. Sawed contraction joinst every 5 feet between expansion joints.

(05) STANDARD CURB / WALL ATTACHED TO SIDEWALK/DOCK



TRANSVERSE "SAWED" CONSTRUCTION JOINT 3/16" WIDE SYNTHETIC-POLYMER TYPE JOINT SEALING COMPOUND 3/4" REDWOOD (COLOR TO MATCH EXPANSION JOINT PAVEMENT) PLASTIC TUBE 73/4" SMOOTH BAR DIPPED IN GREASE THIS END

STEEL TO MEET A.S.T.M. STANDARD SPECIFICATIONS FOR CONCRETE REINFORCED BAR UNITS TO BE SPACED 24" LONGITUDINAL AND 18" TRANSVERSE

EXPANSION JOINT DETAIL

CONCRETE PAVEMENT AND CONSTRUCTION JOINT DETAILS

**m**coy COLLABORATIVE

> McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118



### **COORDINATION**

- A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.
- C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.
- E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.
- F. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the
- G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the Structural Drawings shall be referred to the Architect. Differences shall also be clouded on the shop
- H. All structural elements of the project have been designed by the Engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.
- I. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Structural Contract Documents.
- J. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- K. Periodic site observation by field representatives of JQ is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor

- A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding
- B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be considered.

# CODES & REFERENCED REPORTS

- A. The General Building Code used as the basis for the structural design is as
- International Building Code, 2015 Edition International Existing Building Code, 2015 Edition
- B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.
- C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building
- D. Wood Framing: National Design Specifications for Wood Construction with Supplement, National Forest and Paper Products Association, as referenced by the General Building Code.
- E. Structural Plywood: Plywood Design Specification, American Plywood Association, as referenced by the General Building Code.
- F. Geotechnical Report: Foundation elements have been designed in accordance with information provided in the following geotechnical report:

Geotechnical engineer Terracon Report Number: 97165124 1-Mar-17

#### **DESIGN LOADS**

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:

•	•	
	Ceiling and Mechanical at roof Roofing and rigid insulation	10 ps 8 ps

#### B. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED
Boathouse and piers	100	2000
Roof - Reduced	20	N/A

- C. Live Load Reduction
  - Live loads have been reduced on any member supporting more than 150 square feet, including flat slabs, except for floors in places of public assembly and for live loads greater than 100 pounds per square foot in accordance with the following
  - a. r(A-150) >= R >= 23.1(1+D/L)Where R = Reduction in percent.
    - r = Rate of reduction equal to .08 percent for floors. A = Area of floor supported by the member D = Total dead load supported by the member.
  - L = Total unreduced live load supported by the member. The reduction, R, shall not exceed 40 percent for members supporting one level only, 60 percent for other members, or R as calculated in the following
- 2. Live loads exceeding 100 pounds per square foot have not been reduced, except columns supporting 2 or more stories, live loads have been reduced 20 percent.
- Roof live load has been reduced using the formula 20 x R1 x R2 according to the

## D. Snow loads

Ground snow load, Pg

General Building Code.

d. Risk Category

E.	Win	d load	ds	
	1.	Win	nd lateral load on structural frame is based o	n ASCE 7-10 using the follow
		a.	Basic Wind Speed (Ultimate)	115 mph ~
		b.	Exposure	C ·
		C	Internal Pressure Coefficient, Goni	+/-0 18

## 2. Components and cladding wind pressures:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+30.5 -33.1 -40.7	Interior and edge Interior Edge	10 or less 10 or less 10 or less
	+22.9 -25.4 -25.4	Interior and edge Interior Edge	500 or greater 500 or greater 500 or greater
Roof	-33.4 -56.0 -84.2	Interior Edges Corners	10 or less 10 or less 10 or less
	-30.5 -36.2 -36.2	Interior Edges Corners	100 or greater 100 or greater 100 or greater

- Pressures for Tributary Areas in between the listed values may be linearly Negative value signifies pressure acting away from the surface (suction).
- Edge and Corner zone distances shall be determined in accordance with referenced standard. Pressures on parapets shall be determined by combining positive and
- negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard. Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift

values for design of joists, joist girders, and bridging.

# **EXCAVATION PROTECTION**

A. Contractor shall comply with all Occupational Safety and Health Administration standards and all other regulatory agency standards regarding excavation safety.

# **DRIVEN PILES**

- A. Pile design is based on an allowable capacity of 5 tons in accordance with the referenced geotechnical report.
- B. Bearing stratum shown on the pile details is natural material below a depth of 10 feet from existing grade. Assume overall pile length is 20'-0"
- C. Piles may be steel, concrete or timber. unless noted otherwise. Contractor shall submit proposed material and installation methodology for review.
- D. After piling is driven and cut off at final elevation.
- E. Pile cut off elevations are shown on the pile cap details.
- F. Piles may require additional aids such as preboring to reach the required depth, but preboring depth shall not exceed 5 feet.
- G. All piles shall be driven a sufficient distance in to the bearing stratum to develop the required resistance. Driving criteria shall be in accordance with the driving formula developed by the Geotechnical Engineer and confirmed by test piles.
- H. All piles shall be driven in the presence of and inspected by a geotechnical inspector in order to ensure that the proper pile capacity has been attained. Geotechnical Engineer shall be the sole judge of the ability of the piles to sustain
- Contractor shall make and maintain accurate records of the pile depths, and location (including off-center eccentricities), and shall submit this information to the

## **CONCRETE FOOTINGS**

- A. Concrete footing design is based on an allowable net bearing capacity of 2,500 psf in accordance with the referenced geotechnical report.
- B. Bearing stratum shown on the footing details is undisturbed native soil.
- C. Footings not specifically located on the plan shall be located on centerline of pilaster or column above. Where no pilaster or column occurs, locate on centerline
- D. Elevation of top of plinths/footings, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by
- E. Footing excavations shall be to neat lines and shall be free of loose or wet
- F. Footing reinforcing and concrete shall be placed immediately after excavations are complete; in no case shall a footing be excavated that cannot be placed by the end
- G. Reinforcing steel shop drawings shall include placing drawings for templates to set
- H. All footings shall be inspected by a geotechnical inspector in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the referenced geotechnical report and that the footing has been constructed to specified size, with detailed reinforcing, and to specified tolerances.

#### CAST-IN-PLACE CONCRETE

- A. CONCRETE MIX USAGE SCHEDULE: All concrete shall conform to the requirements as specified in the table below, unless
- noted otherwise on the Structural Drawings: Strength psi Agg. Agg. Slump Max Air
  Type Size Inches w/c Content

		1 ypc	OIZC	11101103	W/O	Contont	
Footings	3500	NWT	1"	3-5			
Structural Columns, Beams and Slab*	4500	NWT	1"	3-5	0.45	3.5 to 6%	
* Denotes see additional concrete m	nix desig	n notes	B and	D below.			

- "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate) Where the w/c ratio is not indicated in the table above, it shall be as necessary to
- meet strength requirements. Where the w/c ratio is shown, it shall be adhered to regardless of strength
- 4. "Strength" is required compressive cylinder strength at an age of 28 days.
- B. In addition, formed slabs and beams for the exposed boat dock shall meet the following additional requirements: A maximum water/cement ratio of 0.45.
- A high-range water reducing admixture shall be added to increase the slump to 5-6". The noted slump applies before the addition of the admixture.
- Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by
- 4. Minimum entrained air content shall be 5 to 7 percent.
- C. A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.
- D. Concrete mix used for the pier, supporting columns and beams under boat house shall be designed to match existing for color and finish. This may include the use of colored cements and alternative finishing methods. Formed exposed concrete surfaces shall have board finish to match existing.
- E. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional
- F. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, Section 26.8, including the following: 1. Conduits and pipes embedded within a slab, wall, or beam (other than those
- thickness of the slab, wall or beam in which they are embedded. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

passing through) shall not be larger in outside dimension than 1/3 the overall

- G. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2. Each proposed mix design shall be accompanied by a record of past performance based on at least 30 consecutive strength tests, or by three laboratory trial mixtures with confirmation tests.
- H. Grade beams in contact with earth shall be formed both sides unless noted otherwise in
- I. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck for information, including slump; and shall be sampled at the point of placement for acceptance of slump and air content.

# **CONCRETE REINFORCING**

- A. Concrete reinforcement for the project shall conform to the following All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade
- 60, unless noted otherwise in the Structural Drawings or these notes.
- Epoxy-Coated Reinforcing Steel. Provide epoxy-coated reinforcing steel according to ASTM A775 where noted on the drawings.
- Deformed Bar Anchors. ASTM A496 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
- B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.
- C. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows: Class A lap beam top reinforcing bars at mid span. Class A lap beam bottom reinforcing bars at the supports. Provide Class B lap at other location pending Engineer's approval.
- Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs. Provide corner bars for all horizontal bars at the inside and outside faces of
- intersecting beams or walls. Corner bars are not required if horizontal bars are Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top
- D. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.
- E. Heat shall not be used in the fabrication or installation of reinforcement.

# F. Reinforcing steel clear cover shall be as follows: Columns

Footings

Formed grade beams One way slabs Slab-on-grade Walls

# 2" top and sides, 3" bottom 3/4" top

## POLYMER MODIFIED REPAIR MORTAR

- A. Polymer modified repair mortar shall be manufactured by the Sika Corporation. Comply with all handling, mixing, placing and curing requirements as specified by the Sika Corporation
- B. Chip out all loose and unsound concrete and as required to provide minimum application thickness. Surface preparation shall be in accordance with ICRI Guideline 310.2R-2013: "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays". Concrete surface profile shall be a minimum of CSP-5. Waterblast concrete surface. Mortar shall be applied to saturated surface dry (SSD) surface.
- C. Apply a scrub coat of repair mortar to existing concrete surface prior to placing the repair mortar mix. Repair mortar must be applied into wet scrub coat before it dries.
- D. Bonding agent (where called for) shall be Sika Armatec 110 Epocem bonding agent. Apply prior to application of repair mortar. Comply with time between application of bonding agent and repair mortar requirements.
- E. Clean exposed reinforcing steel by oil-free abrasive blasting or high pressure water blasting. Verify that the reinforcing steel and concrete surface are free from dirt, oil, cement fines (slurry), or any material that may interfere with the bond of the repair
- F. Coat exposed reinforcing steel with Sika Armatec 110 Epocem bonding agent in accordance with manufacturer's instructions.
- G. Repair mortar for horizontal surfaces (hand applied): Repair mortar shall be Sika Sikatop 122 PLUS Polymer Modified Repair Mortar, or accepted equal.
- Application thickness: Minimum: 1/4 inch
- Maximum in one lift: 1 inch
- 3. For installations greater than 1 inch and less than 4 inches in thickness, extend repair mortar with 3/8 inch coarse aggregate, not to exceed 42 lbs. per
- Repair mortar for vertical and overhead surfaces (hand-applied): Repair mortar shall be Sika SikaTop 123 PLUS Polymer Modified Repair
- Mortar, or accepted equal. Application thickness:
- a. Minimum: 1/4 inch b. Maximum in one lift: 1 inch
- I. Repair of exposed reinforcing and spalled or honeycombed concrete on vertical or overhead surfaces (form and pour or pump): Repair mortar shall be Sika Monotop 611 Pump and Pour Repair Mortar, or
- accepted equal. Provide fully supported formwork as necessary to restore structural member to original configuration. Provide access chutes (for pour installations), valve
- inlets (for pump installations), and vent holes/tubes in formwork as necessary. For installations greater than 1 inch in depth, extend material with up to 42 lbs. of 3/8 inch clean, coarse, well-grade, non-reactive, aggregate complying with ASTM C33 size number 8 per Table 2.
- 4. Application thickness: Minimum (neat): 2 inch
- Maximum (neat): 1 inch Minimum (extended): 1 inch
- d. Maximum (extended): 6 inches
- J. Repair of exposed reinforcing and spalled or honeycombed concrete on vertical or overhead surfaces (spray-applied):
- Repair mortar shall be SikaRepair 224 Sprayable Mortar, or accepted equal. Apply material perpendicular to the surface using conventional wet-process
- shotcreting equipment. 3. Application thickness
- a. Minimum: 3/8 inch Maximum per lift (vertical): 2 inches c. Maximum per lift (overhead): 1.5 inches

## PRESSURE INJECTED EPOXY ADHESIVE

- A. Work related to pressure injected epoxy adhesive shall be performed in accordance
- B. Epoxy adhesive shall be water insensitive and shall comply with ASTM C881, Type l. Submit proposed adhesive for review and approval. Epoxy adhesives offered by the following manufacturers are acceptable:
- Sika Corporation Euclid Chemical Company

surface. Acid etching shall not be used.

- C. Only automated, two-component injection equipment shall be used for applications involving the repair of critical structural elements. Equipment shall be operated only by trained, experienced personnel.
- D. All surfaces to receive adhesive shall be free of all loose and unsound material, oil, grease, wax, or other bond inhibiting agents. Use sandblast or waterblast to clean
- E. Set appropriate injection ports based on system used and width of crack. Recessed ports shall be used for cracks less than 25 mils (0.025 inch) in width. Mix and place adhesive, and install surface sealer over face of crack and around injection ports in accordance with manufacturer's recommendations.
- F. Perform ratio measurement and pressure tests of the automated two-component injection equipment at the beginning of each shift in accordance with ICRI Guideline 210.1-2016 "Guide for Verifying Field Performance of Epoxy Injection of Concrete Cracks" (formerly No. 03734).
- G. The testing agency shall obtain samples of epoxy adhesive from the injection equipment at the point where adhesive is introduced to the injection ports for the first 50 linear feet of crack injected, and thereafter for every 100 linear feet of crack injected. Samples shall be stored in capped test tubes clearly marked as to date and location. Samples shall be retained to verify proper set and curing of the
- H. Begin injection of adhesive at the injection port of lowest elevation, or at one end of horizontal crack. When adhesive appears at the adjacent port, plug the port being injected, and begin injection at the adjacent port. Repeat process until all ports have been injected. Injection process shall not be interrupted once begun.
- I. After adhesive has cured, remove all injection ports and surface sealer flush with surrounding concrete. Surface sealer shall be ground off. Contractor shall not remove sealer by application of heat.
- J. After locating embedded steel reinforcement, the Contractor shall provide 2" diameter (minimum) core samples for every 100 linear feet of injected crack to the Engineer for verification of complete penetration of the adhesive. Locations of cores shall be reviewed and approved by the Engineer prior to taking of the cores.

# POST-INSTALLED ANCHORS AND DOWELS

- A. Expansion Anchors: In Concrete: Expansion Anchors shall be one of the following:
- Kwik Bolt TZ, Hilti Inc. b. Strong Bolt 2, Simpson Strong-Tie Co., Inc.
- B. Screw Anchors: 1. In Concrete: Qualifying anchors shall be one of the following:
- Kwik HUS-EZ, Hilti Inc. b. Titen HD, Simpson Strong-Tie Co., Inc.

A193, grade B8.

- C. Adhesive Anchors with Threaded Rod: In Concrete: Qualifying anchors shall be one of the following products:
- Acrylic: HIT-HY 200 SAFE SET, Hilti Inc. Acrylic: AT-XP (IAPMO-ER-0281), Simpson Strong-Tie Co., Inc.
- 2. Threaded anchor rod shall be one of the following: Hilti adhesive: "HIT-Z-R" AISI type 304/316 stainless steel Simpson adhesive: 304 Stainless steel meeting the requirements of ASTM

c. Anchor rod shall have a chamfered end on one end to accept a nut and washer; it may have a 45-degree chisel point on the other end.

#### POST-INSTALLED ANCHORS AND DOWELS (CONT'D.)

- D. Adhesive Rebar Dowelling
  - 1. Adhesive dowels are not permitted to be substituted for cast-in dowels unless
  - authorized in advance by JQ for each specific location. Qualifying anchors shall be one of the following products:
  - Epoxy: HIT-RE 500V3, Hilti Inc. b. Epoxy: SET-XP, Simpson Strong-Tie Co., Inc.
- E. Anchor and Dowel Installation Anchors and dowels of the size and embedment shown on the Drawings shall
- be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current evaluation (ICC-ES or IAPMO-ES) report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
- F. For adhesive anchors installed in a horizontal orientation subject to sustained tension loading and all upwardly inclined (including soffit installations) orientation: 1. Per ACI 318-14 (17.8.2.2): Installation shall be performed by personnel certified by ACI/CRSI "Adhesive Anchor Installer Certification Program." Certification shall include written and performance tests.

#### STRUCTURAL STEEL

- A. Material All hot rolled steel members shall be new and conform to ASTM specification
- ASTM Specification and Grade clearly mark the grade on each member. Unless Noted otherwise on the Structural Drawings, structural steel members
  - a. W-shapes shall conform to ASTM A992.
  - Channels shall conform to ASTM A36. Angles shall conform to ASTM A36.
  - Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
- Round hollow structural shape members shall conform to ASTM A500, Grade B Fy = 42 ksi.
- Square or rectangular hollow structural shape members shall conform to ASTM A500 Grade B, Fy = 46 ksi.

Dimensional tolerances of fabricated structural steel shall conform to Section

- Structural steel plate shall conform to ASTM A36. Any other steel shall conform to ASTM A36.
- B. Fabrication Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having

splice not shown and detailed on shop drawings will be rejected.

6.4 of the AISC Code of Standard Practice unless noted otherwise on the Structural Drawings. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5

## C. Erection

- Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
- Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer. Contractor shall protect any unprimed structural steel from detrimental effects
- of corrosion, as required, until the steel is enclosed and protected by the new construction Hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural
- Drawings or not. Such items include, but are not limited to: a. All embedded plates in concrete Examine the Architectural and Structural Drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as

# STRUCTURAL STEEL CONNECTIONS

otherwise on the Structural Drawings:

calculations are submitted.

strength of the smaller member at the joint.

shall be bolted.

manufactured by Z.R.C. Company.

A. Welded Connections All welding shall conform to ANSI/AWS D1.1, latest edition. Fillet welds with no size specified shall be 3/16 inch or minimum size required

Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch

diameter and conform to ASTM A325. Bolts shall be designed using values

- by AISC, whichever is larger. B. Bolted Connections
- for bearing type bolts with thread allowed in the shear plane. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings. C. Structural steel connections not specifically detailed on the Structural Drawings
- shall be designed and detailed by the Contractor under the direct supervision of a professional engineer licensed in the state having jurisdiction at the project site. Sealed calculations for all connections designed by the Contractor shall be submitted for the Architect's files.
- D. Beam connections shall be designed and detailed as follows, unless noted
- 1. Connections shall be AISC type 2 simple framing connections. Shear tab connections shall not be used unless specifically detailed on the Structural Drawings, or connections are designed and detailed by the fabricator's registered professional engineer licensed in the State of [XX] and sealed

In general, shop connections shall be bolted or welded and field connections

tables in the AISC Manual referenced in the "Codes & Referenced Reports"

- Where indicated, connections shall be designed for the scheduled shear force. The shear force is indicated on the Structural Drawings as "R = ", and the horizontal force indicated as "H = ". 4. If not indicated on the Structural Drawings, connections shall be designed for 55 percent of the total load capacity for the beam span shown in the beam
- Short slotted holes shall be permitted provided washers are installed in accordance with AISC requirements. Washers shall be hardened where A325 bolts are utilized.

E. All beam shears, reactions, member forces, moments, etc. shown on the Structural

Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile

Drawings are unfactored loads conforming to the requirements of AISC Allowable F. For connections not specifically addressed by these notes or the Structural



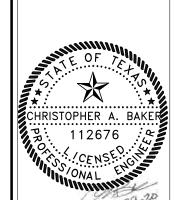
McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226

Ph: 214.977.9118

JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207 972.392.7340 JQIENG.COM TBPE FIRM F-7986 PROJECT NO: 4160267



100% CD DOCUMENT



DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB REVISED:

REVISED:

REVISED:

SHEET TITLE

STRUCTURAL

#### TIMBER FRAMING

- A. Unless noted otherwise on the Structural Drawings, all structural framing lumber shall be clearly marked No. 2 Southern yellow pine or Douglas fir, except that non-load bearing interior walls may be stud grade Southern yellow pine, Douglas fir, or Spruce-pine-fir.
- B. Studs shall be 2 x 4's at 16 inches on center, typical, unless noted otherwise on the Structural Drawings.
- C. Wood Preservative Treated Lumber (Pressure Treated):
- treated as described below. 2. Preservative Treatment by Pressure Process should be performed according to the AWPA methods described below. The preservative chemicals shall be waterborne and can include Alkaline Copper Quat (ACQ-C, ACQ-D) and Copper Azole (CBA-C & CA-B) for interior or exterior uses and Inorganic Boron (SBX) for interior use only. Preservative shall not contain arsenic or chromium and shall not contain ammonia carriers.

Preservative Treated Lumber shall be Southern Yellow Pine and shall be

- Wood Installed for above ground use shall be preservative treated using water-borne preservatives in accordance with AWPA U2, use category UC3B. The locations to be treated are as follows:
- a. Wood joists or wood floor without joists are closer than 18 inches or wood girders are closer than 12 inches to the exposed ground in crawl space.
- b. Wood Framing members including wood sheathing which rest on exterior foundation walls and are less than 8inches from the exposed earth. c. Wood framing members or furring strips attached directly to the interior of
- exterior or concrete walls below grade. d. Wood sleepers and sill plates on concrete or masonry slab that is in direct
- contact with earth. e. Wood Girder ends supported by exterior masonry or concrete walls
- unless 1/2 inch airspace is provided on top, sides, and end. Wood Siding closer than 6 inches to earth.
- g. Posts or columns supported directly on a footing unless separated by an impervious moisture barrier and a minimum 6 inches above grade and 1 inch above slab where a slab exists or 8 inches above earth on a concrete pier where no slab exists. h. Portions of Glued-laminated timbers exposed to weather.
- 4. Wood in contact with Ground (exposed earth) or fresh water shall be preservative treated using water-borne preservatives in accordance with AWPA U1, with use category UC4C.
- 5. Wood member that form supports of buildings, balconies, porches, or similar permanent building appurtenances where such members are exposed to the weather without adequate protection from the roof, eave, overhang, etc. to prevent water accumulation on the surface or between joints shall be preservative treated using water-borne preservatives in accordance with
- AWPA U1 with use category UC3A.

  6. Other wood members noted in the drawings shall be preservative treated using water-borne preservatives in accordance with AWPA U1 with use category UC3A.
- D. All wood stud walls shall be full height without intermediate plate line unless detailed otherwise.
- E. All load bearing walls shall have solid 2x blocking at 4'□0" on center maximum vertically. End nail with 2-16d nails or side toe nail with 2-16d nails.
- F. Provide double studs at all wall corners and on each side of all openings, unless noted or detailed otherwise.
- G. All framing members framing into the side of a header shall be attached using metal joist hangers of type "LU" as manufactured by the Simpson Company or equal. The hanger shall be sized and installed in accordance with the manufacturer's recommendations for the size of joist supported.
- H. Nailing and attachment of all framing members and sheathing shall be as specified in the International Building Code Nailing Schedule unless noted otherwise on the Structural Drawings. Common wire nails or spikes, or galvanized box nails shall be used for all framing unless noted otherwise on the Structural Drawings.
- I. Place a single plate at the bottom and a double plate at the top of all stud walls.
- J. Simpson Strong Tie steel connectors in contact with Pressure Treated Lumber shall the following composition/ finish:

3 1	Type of Preservative	
<u>Usage</u>	Retention Level	Simpson Finish
Interior	SBX/DOT	G90
Interior/Exterior	ACQ (All) / 0.40 pcf (max)	HDG / ZMAX
Interior/Exterior	CBA-À / 0.41 pcf (max)	HDG / ZMAX
Interior/Exterior	CA-B / 0.21 pcf (max)	HDG / ZMAX
Uncertain or retention le	vels greater than noted above will requ	uire Type 304 or 316
Stainless Steel connecto		, , , , , , , , , , , , , , , , , , ,

- K. As an alternate, plates may be attached to concrete foundation elements with power actuated fasteners. Provide washers at least 0.08 inches thick, and 1.1 inches square or 1.425 inches in diameter at each fastener. Fasteners shall be 3" long and shall have a minimum shank diameter of 0.145 inches. Provide two fasteners located 6 and 10 inches from the end of each sill plate piece, and then at a maximum spacing of 18 inches on center maximum at exterior walls and at interior party walls. At interior non-load bearing partitions, fasteners may be spaced at 36" on center, maximum. Fasteners shall be Hilti X-CR 72P8 pins or equal. Submit manufacturer's information on fastener to be used prior to start of
- Provide double joists under all interior partition walls oriented parallel to the joists.
- M. All bolts and lag screws shall have standard washers. All anchor and expansion bolts used in wood to concrete connections shall be hot dip galvanized or stainless
- N. Refer to the Architectural Drawings for additional wood framing members. Provide additional wood framing members shown on the Architectural Drawings even though they may not be shown on the Structural Drawings.

# **DESIGN BY OTHERS**

- A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
  - Steel Connections Guardrail and Handrail Systems
  - Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
  - 4. Excavation Support and Protection Driven pile systems
- B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

SYMBOLS LEGE	:ND
SYMBOL	DESCRIPTIO
BEAM SIZE NO. OF HEADED STUDS  REACTION R=XK (SERVICE LOAD) CAMBER	COMPOSITE STEEL BEAM
PIER TYPE, T.O.PIER EL. T.O.PIER DETAIL	CONCRETE PIER
MOMENT CONNECTION  BEAM SIZE  WXXXXX  MOMENT CONNECTION	STEEL BEAM MOME CONNECTION
COLUMN SIZE BASE PLATE TYPE	STEEL COLUMN
	EXISTING CONCRE COLUMN BELOW
L J	NEW CONCRETE COLUMN BELOW
=	WELDED METAL BA GRATING
	SLAB OR DECK SPA DIRECTION
7777)	DROP IN SLAB OR DECK
7777	DROP AND SLOPE I SLAB OR DECK
7//////////////////////////////////////	SLOPE IN SLAB OR DECK
BRACE-x	VERTICAL STEEL BRACE
5 == 5	STEEL BEAM SPLIC
	NONLOAD-BEARING WALL
SW-x	SHEARWALL, SEE SCHEDULE
	LOAD-BEARING WA SEE SCHEDULE
SW-x	CONCRETE SHEAR WALL, SEE SCHEDU
	EXISTING CONSTRUCTION
	MISCELLANEOUS, S PLAN
<i>5/7/7/7/7/7/7/7/</i> ?	ROOF TOP UNIT (R

SYMBOLS LEGEND			
SYMBOL	DESCRIPTION		
BEAM SIZE NO. OF HEADED WXXXXX (X) C=X" STUDS  R=XK (SERVICE LOAD) CAMBER	COMPOSITE STEEL BEAM		
PIER TYPE, T.O.PIER EL. T.O.PIER DETAIL	CONCRETE PIER		
MOMENT CONNECTION  BEAM SIZE  WXXXXX  MOMENT CONNECTION	STEEL BEAM MOMENT CONNECTION		
COLUMN SIZE BASE PLATE TYPE	STEEL COLUMN		
	EXISTING CONCRETE COLUMN BELOW		
	NEW CONCRETE COLUMN BELOW		
=	WELDED METAL BAR GRATING		
	SLAB OR DECK SPAN DIRECTION		
7777)	DROP IN SLAB OR DECK		
7777	DROP AND SLOPE IN SLAB OR DECK		
7//////////////////////////////////////	SLOPE IN SLAB OR DECK		
BRACE-x	VERTICAL STEEL BRACE		
5 == -5	STEEL BEAM SPLICE		
	NONLOAD-BEARING WALL		
SW-x	SHEARWALL, SEE SCHEDULE		
	LOAD-BEARING WALL, SEE SCHEDULE		
SW-x	CONCRETE SHEAR WALL, SEE SCHEDULE		
	EXISTING CONSTRUCTION		
	MISCELLANEOUS, SEE PLAN		
	ROOF TOP UNIT (RTU)		

GAGE OR GAUGE

GENERAL CONTRACTOR

FOUNDATION

GALVANIZED

GRADE BEAM

FRAMING

GRADE

- FDN.

- FRMG

- GALV.

- G.C.

- GR.

- GR.BM.

- GA.

		STRUCTURAL ABBREVIATION	NS
ABOVE ABOVE FINISHED FLOOR ADDITIONAL ADHESIVE ADJACENT AGGREGATE AIR CONDITIONER	- ABV. - A.F.F. - ADDN'L. - ADH. - AGGR. - A/C	HEADED STUD ANCHOR HEIGHT HIGH POINT HOLLOW STRUCTURAL SECTION HOOK HORIZONTAL HORIZONTAL BRACE	- H.S.A. - HT. - H.P. - HSS - HK. - HORIZ. - H.B.
AIR HANDLING UNIT ALTERNATE AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION ANCHOR BOLT AND ANGLE	- AHU - ALT. - A.C.I. - A.I.S.C. - A.B. - & - L	HOT-DIP INCH INFORMATION INSIDE DIAMETER INSIDE FACE INTERIOR INTERMEDIATE	- H.D IN INFO I.D I.F INT INTERM.
APPROVED APPROXIMATE ARCHITECT ARCHITECTURAL ARCHITECTURALLY EXPOSED	- APPD. - APPROX. - ARCH. - ARCH'L - A.E.S.S.	JOINT JOIST(S) JOIST GIRDER	- JT. - JST(S) - J.G.
STRUCTURAL STEEL ARCHITECTURALLY EXPOSED CONCRETE AT	- A.E.C. - @	KIPS(1000 LBS) KIP PER LINEAR FOOT KIP PER SQUARE FOOT KIP PER SQUARE INCH	- K - KLF - KSF - KSI
BACK FACE BACK TO BACK BASEMENT BEAM BEARING BELOW FINISH FLOOR BETWEEN BEVEL(ED) BLOCK BLOCK LINTEL BLOCKING BOTTOM	- B.F B. TO B BSMT BM BRG B.F.F BTWN BEV('D) - BLK B.L BLKG.	LENGTH LIGHTWEIGHT LIGHTWEIGHT CONCRETE LIVE LOAD LOCATION LONGITUDINAL LONG LEG HORIZONTAL LONG SIDE HORIZONTAL LONG SIDE HORIZONTAL LONG SIDE HORIZONTAL LONG SIDE VERTICAL LONG SLOTTED HOLE LOW POINT	- L L.W L.W.C L.L LOC LONG LLH - LLV - LSH - LSV - LSL - L.P.
BOTTOM OF BOTTOM OF STEEL BRACKET BRICKLEDGE BRIDGING BUILDING	- B.O. - B.O.S. - BRKT. - BR.L. - BRDG. - BLDG.	MANUFACTURE(R) MASONRY MATERIAL MAXIMUM MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING	- MFR. - MAS. - MAT. - MAX. - MECH. - MEP
CAMBER CAST-IN-PLACE CEILING CENTER LINE CENTER OF GRAVITY CENTER OF GRAVITY OR STRAND CLEAR OR CLEARANCE COLD FORMED STEEL COLUMN	- C - C.I.P. - CLG. - C.L. - C.G. - C.G.S. - CLR. - CFS	METAL MEZZANINE MIDDLE MINIMUM MISCELLANEOUS MOMENT MOMENT CONNECTION(S)	- MTL. - MEZZ. - MID. - MIN. - MISC. - M
COLUMN COMPRESSION CONCRETE CONCRETE MASONRY UNIT CONNECTION(S) CONTINUOUS CONTRACTOR	- COL. - C OR COMP. - CONC. - CMU - CONN(S) - CONT. - CONTR.	NEAR FACE NOMINAL NON-SHRINK NOT IN CONTRACT NOT TO SCALE NUMBER	- N.F. - NOM. - N.S. - N.I.C. - N.T.S. - NO. OR #
CONTROL JOINT CONSTRUCTION CONSTRUCTION JOINT COORDINATE COVER PLATE DETAIL	- C.J. - CONST. - CONST. JT. - COORD. - COV. PL.	ON CENTER OPENING(S) OPPOSITE OPPOSITE HAND OUTSIDE FACE OUTSIDE DIAMATER OVER-SIZED HOLE	- O.C. - OPNG(S) - OPP. - O.H. - O.F. - O.D. - OVS
DEAD LOAD DEFORMED BAR ANCHOR DIAGONAL DIAMETER DIMENSION(S) DOUBLE DOUBLE EXTRA STRONG DOVETAIL DOWEL(S) DOWNSPOUT DRAWING(S)	- D.L D.B.A DIAG DIA. OR Ø - DIM(S) DBL XX-STR - DVTL DWL(S) DS DWG(S).	PAN PANEL JOINT PARALLEL PERPENDICULAR PIECE PLATE POINT POST-TENSION(ED) POUNDS POUNDS PER CUBIC FOOT	- P - P.J. - PAR. - PERP. - PC. - PL. - PT. - P-T # OR LBS. - PCF
EACH EACH FACE EACH WAY ELECTRICAL ELEVATION ELEVATOR EMBEDMENT ENGINEER EQUAL	- EA. - E.F. - E.W. - ELEC. - EL. - ELEV. - EMBED. - ENGR. - EQ.	POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT	- PLF - PSF - PSI - P/C - P.E.M.B PREFAB PRELIM P.T PROJ.
EQUIPMENT EXHAUST FAN EXISTING EXPANSION EXPANSION JOINT EXTERIOR EXTRA STRONG	- EQUIP. - EF - EXIST. - EXP. - E.J. - EXT. - X-STR	QUANTITY  RADIUS REINFORCED CONCRETE PIPE REINFORCE(ING)(ED)(MENT) REMAINDER REQUIRE REQUIRED RETENTION SYSTEM	- QTY.  - R - RCP - REINF REM REQ REQ'D.
FACE TO FACE FABRICATOR FAR SIDE FIELD VERIFY FINISH(ED) FINISHED FLOOR FIREPROOF(ING) FLANGE FLOOR FLOOR FLOOR DRAIN FOOT(OR)FEET	- F. TO F FABR F.S F.V FIN('D) - FIN.FL FP FLG FL FT.	RETENTION SYSYTEM RISER ROOF ROOF DRAIN ROOF TOP UNIT ROOM ROUGH OPENING ROUND	- RET.SYS RIS RF R.D R.T.U RM R.O RND.

<u>S</u>	
- H.S.A. - HT. - H P	SCHEDULE(D) SECTION SHEAR
- HSS	SHEET SHORT SLOTTED HOLE
- HORIZ.	SIDEWALK SIMILAR
- H.D.	SLAB ON GRADE SPACE
- IN. - INFO.	SPECIFICATIONS(S) SPECIFIED SOLIARE
- I.D. - I.F.	SQUARE SQUARE FOOT
- INT. - INTERM.	STAGGERED STAINLESS STEEL
- JT.	STANDARD STEEL
- JST(S) - J.G.	STEEL JOIST INSTITUTE STIFFENER
- K	STRAIGHT STIRRUPS
- KSF	STRUCTURAL STRUCTURE
	SUBCONTRACTOR SUPPORT(S)
- L.W.	TEMPERATURE TENSION
- L.L.	TERRAZZO THICK
- LONG.	THREAD(ED) TONGUE AND GROOVE
- LLV	TOP AND BOTTOM TOP OF
- LSV	TOP OF BEAM TOP OF CONCRETE
- L.P.	TOP OF FOOTING TOP OF JOIST
- MFR. - MAS.	TOP OF PIER TOP OF PIER (PIPLE) CAP
- MAX.	TOP OF STEEL TOP OF WALL
- MEP	TRANSVERSE TREAD
- MEZZ.	TYPICAL UNLESS NOTED OTHERWISE
- MIN	VERTICAL VERTICAL
- M	VERTICAL BRACE
	WATERPROOFING WATERSTOP
- NOM. - N.S.	WEIGHT WELDED WIRE MESH
- N.I.C. - N.T.S.	WIDTH WIND LOAD
	WINDOW WITH
- OPNG(S)	WITHOUT WOOD
- O.H.	WORK POINT
- O.D.	
- P	
- P.J. - PAR.	
- PERP. - PC.	
- PT	
# OR LBS.	
- PLF	
- PSI - P/C	
- P.E.M.B. - PREFAB.	
- PRELIM. - P.T.	
- PROJ.	
- QTY.	
	- H.S.A HT H.P H.S HK HORIZ H.B H.D IN INFO I.D I.F INTERM J.T JST(S) - J.G K - KKLF - KSF - KSI - L L.W L.W.C L.LH - LLV - LSH - LSV - LSL - L.P MFR MAS MAT MAX MECH MEP - MTL MEZZ MID MIN MISC N.F NO. OR # - O.C OPNG(S) - OPH O.F O.D OVS - P - P.J PERP PC PL P.F PSF - PSI - PC PL P.F PSF - PSI - PC PL P.F PSF - PSI - PC P.F PREFAIB P.F PREFAIB P.F PROJ QTY.



- SCHED.

- SECT.

- V

- SHT.

- SSL

- SW.

- SIM.

- SPA.

- SQ.

- S.F.

- S.S.

- STD.

- STL.

- S.J.I.

- STIFF

- STIRR.

- STRUCT'L

- SUBCONTR.

- STRUCT.

- SUPT(S).

- TEMP.

- TERR.

- THRD.

- THK.

- T&B

- T.O.

- T.O.B.

- T.O.C.

- T.O.F.

- T.O.J.

- T.O.P.

- T.O.P.C.

- T.O.S.

- T.O.W.

- TR.

- TYP.

- U.N.O.

- VERT.

- WPFG.

- V.B.

- WS.

- WT.

- W.

- W.L.

- W/

- W/O

- WD.

- W.P.

- WDW.

- W.W.M.

- TRANSV.

- STR.

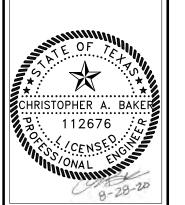
- S.O.G.

- SPEC(S)

- SPEC'D

- STAGG.

100% CD **DOCUMENT** 



DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB REVISED:

REVISED: REVISED:

SHEET TITLE **STRUCTURAL** NOTES & ABBREVIATIONS | S



**M**cCOY

COLLABORATIVE

McCoy Collaborative

Preservation Architecture, PLLC

3200 Main Street #3.6

Dallas, Texas 75226

SHEET NUMBER

## SPECIAL INSPECTIONS

- 1. Special Inspections shall be performed in accordance with Chapter 17 of the 2015 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications. special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.
- 2. Where structural load-bearing members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

VERIFICATION AND INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL (AISC 360-10 Table N5.4)

SPECIAL INSPECTION	VERIFICATION AND INSPECTION	INSPECTION F	REQUENCY	REFERENCED	IBC	
REQUIRED	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	STANDARD	REFERENCE	
	1. Inspection tasks prior to welding:					
YES	a. Welding procedure specifications (WPSs) available	Х				
YES	b. Manufacturer certifications for welding consumables available	Х				
YES	c. Material identification (type/grade) <sup>2</sup>		Х			
YES	d. Welder identification system <sup>2</sup>		Х			
YES	<ul> <li>e. Fit-up of groove welds (including joint geometry) <sup>2</sup></li> <li>1) Joint preparation</li> <li>2) Dimensions (alignment, root opening, root face, bevel)</li> <li>3) Cleanliness (condition of steel surfaces)</li> <li>4) Tacking (tack weld quality and location)</li> <li>5) Backing type and fit (if applicable)</li> </ul>		Х	AISC 360-10 N5.4-1: AWS D1.1	1705.2.1	
YES	f. Configuration and finish of access holes. <sup>2</sup>		Х			
YES	<ul> <li>g. Fit-up of fillet welds <sup>2</sup></li> <li>1) Dimensions (alignment, gaps at root)</li> <li>2) Cleanliness (condition of steel surfaces)</li> <li>3) Tacking (tack weld quality and location)</li> </ul>	-	Х			
YES	h. Check welding equipment		Х			
	2. Inspection tasks during welding:					
YES	a. Use of qualified welders		Х			
YES	<ul> <li>b. Control and handling of welding consumables <sup>2</sup></li> <li>1) Packaging</li> <li>2) Exposure control</li> </ul>		Х			
YES	c. No welding over cracked tack welds <sup>2</sup>		Χ			
YES	<ul> <li>d. Environmental conditions <sup>2</sup></li> <li>1) Wind speed within limits</li> <li>2) Precipitation and temperature</li> </ul>		Х			
YES	e. WPS followed <sup>2</sup> 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min./max.) 7) Proper position (F, V, H, OH)		X	AISC 360-10 N5.4-2: AWS D1.1	1705.2.1	
YES	<ul> <li>f. Welding techniques <sup>2</sup></li> <li>1) Interpass and final cleaning</li> <li>2) Each pass within profile limitations</li> <li>3) Each pass meets quality requirements</li> </ul>		Х			
	3. Inspection tasks after welding:					
YES	a. Welds cleaned		Х			
YES	b. Size, length and location of welds	Х				
YES	c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X		AISC 360-10 N5.4-2: AWS D1.1	1705.2.1	
YES	d. Arc strikes	Х		]		
YES	e. k-area <sup>3</sup>	Х		]		
YES	f. Backing removed and weld tabs removed (if required)	Х				
YES	g. Repair activities	Х		]		
YES	h. Document acceptance or rejection of welded joint or member	Х				

- 1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)
- 2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.
- 3. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.

	VERIFICATION AND INSPECTION TASKS FOR BOLTING STR	RUCTURAL STEEL	<sup>1</sup> (AISC 360-10 Ta	ibles N5.6)	
SPECIAL INSPECTION	VEDICICATION AND INSPECTION	INSPECTION F	REQUENCY	REFERENCED	IBC
REQUIRED	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	STANDARD	REFERENCE
	1. Inspection tasks prior to bolting:				
YES	Manufacturer's certifications available for fastener materials	Х			
YES	b. Fasteners marked in accordance with ASTM requirements		Χ		
YES	c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		Х		
YES	d. Proper bolting procedure selected for joint detail <sup>2</sup>		Х	AISC 360-10	1705.2.1
YES	Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		Х	N5.6-1	1703.2.1
YES	Pre-installation verification testing by installation personnel     observed and documented for fastener assemblies and     methods used		Х		
YES	<ul> <li>g. Proper storage provided for bolts, nuts, washers and other fastener components</li> </ul>		X		
	2. Inspection tasks during bolting:				
YES	<ul> <li>Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required <sup>2</sup></li> </ul>		Х		
YES	<ul> <li>b. Joint brought to the snug-tight condition prior to the pretensioning operation <sup>2</sup></li> </ul>		X	AISC 360-10	1705.2.1
YES	c. Fastener component not turned by the wrench prevented from rotating. <sup>2</sup>		X	N5.6-2	17 00.2.1
YES	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges		X		
	3. Inspection tasks after bolting:				
YES	Document acceptance or rejection of bolted connections	Х		AISC 360-10 N5.6-3	1705.2.1

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI).
   The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)
- 2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

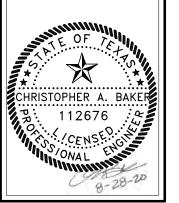
SPECIAL	VERIFICATION AND INSPECTION OF CONCRETE	i		.5)	
INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION F	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
YES	Inspection of reinforcing steel, including prestressing tendons, and placement.		Х	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
	2. Reinforcing bar welding:				
YES	a. Verify weldability of reinforcing bars other than ASTM A706		Χ	AWS D1.4 ACI 318:	
YES	b. Inspect single-pass fillet welds, maximum 5/16"		Х	26.5.4	
YES	c. Inspect all other welds.	Х			
YES	3. Inspection of anchors cast in concrete.		Χ	ACI 318: 17.8.2	
	4. Inspection of post-installed anchors in hardened concrete.				
YES	Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	Х		ACI 318: 17.8.2.4	
YES	<ul> <li>Mechanical anchors and adhesive anchors not defined in 4.a.</li> </ul>		X	ACI 318: 17.8.2	
YES	Special Inspector must be certified by ACI/CRSI "Adhesive Anchor Installer. A report must be submitted to the licensed design professional and building official documenting, stating how each anchor was installed, including the Manufacturer's Printed Installation Instructions per ACI 318			ACI 318: 17.8.2.2 17.8.2.4	
YES	5. Verify use of required design mix.		Х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
YES	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Х		ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10
YES	Inspect concrete and shotcrete placement for proper application techniques.	Х		ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
YES	Verify maintenance of specified curing temperature and techniques.		Х	ACI 318: 26.4.7- 26.4.9	1908.9
	Inspection of prestressed concrete:				
NO	a. Application of prestressing forces	Х	<b></b>	ACI 318: 26.9.2.1	
NO	b. Grouting of bonded prestressing tendons	Х	<b></b>	ACI 318: 26.9.2.3	·
NO	10. Inspect erection of precast concrete members.		Х	ACI 318: 26.8	
NO	Verify in-situ concrete strength, prior to stressing     of tendons in post-tensioned concrete and     prior to removal of shores and forms from     beams and structural slabs.		Х	ACI 318: 26.10.2	
YES	Inspect formwork for shape, location and dimensions of the concrete member being formed.		Х	ACI 318: 26.10.1(b)	

	VERIFICATION AND INSPECTION OF SOILS (IBC TABLE 170	05.6)	
SPECIAL	VEDICIOATION, INCDECTION AND TECTING	INSPECTIO	N FREQUENCY
INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOL	S PERIODIC
YES	<ol> <li>Verify materials below shallow foundations are adequate to achieve the design bearing capacity.</li> </ol>		Х
YES	2. Verify excavations are extended to proper depth and have reached proper material.		Х
YES	Perform classification and testing of compacted fill materials.		Х
YES	4. Verify use of proper materials, densities and lift thicknesses during placement and compared full.	ction X	
YES	<ol> <li>Prior to placement of compacted fill, inspect subgrade and verify that site has been prepare properly.</li> </ol>	red	Х

	VERIFICATION AND INSPECTION OF DRIVEN DEEP FOUNDATION ELEMENTS (IBC TABLE	1705.7)	
SPECIAL INSPECTION	VEDICICATION, INCDECTION AND TECTING	INSPECTION F	REQUENCY
REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOUS	PERIODIC
YES	Verify element materials, sizes and lengths comply with the requirements.	Х	-
YES	2. Determine capacities of test elements and conduct additional load tests, as required.	Х	1
YES	3. Inspect driving operations and maintain complete and accurate records for each element.	X	
YES	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	Х	
YES	For steel elements, perform additional inspections in accordance with IBC Section 1705.2 and the steel special inspection table.		
YES	For concrete elements and concrete-filled elements, perform additional inspections in accordance with IBC Section 1705.3.		
YES	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.		
YES	Protected zone - no holes and unapproved attachments made by the responsible contractor, as applicable	Х	



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DRAWN BY: JS REVIEWED BY: CB REVISED: REVISED:

REVISED:

DATE: 08-28-2020 DESIGNED BY: CB

SHEET TITLE SPECIAL INSPECTIONS

Dallas, Texas 75226 Ph: 214.977.9118

JQ INFRASTRUCTURE, LLC DALLAS, TEXAS 75207 JQIENG.COM 100 GLASS STREET, SUITE 201 972.392.7340 PROJECT NO: 4160267 TBPE FIRM F-7986

**M**cCOY

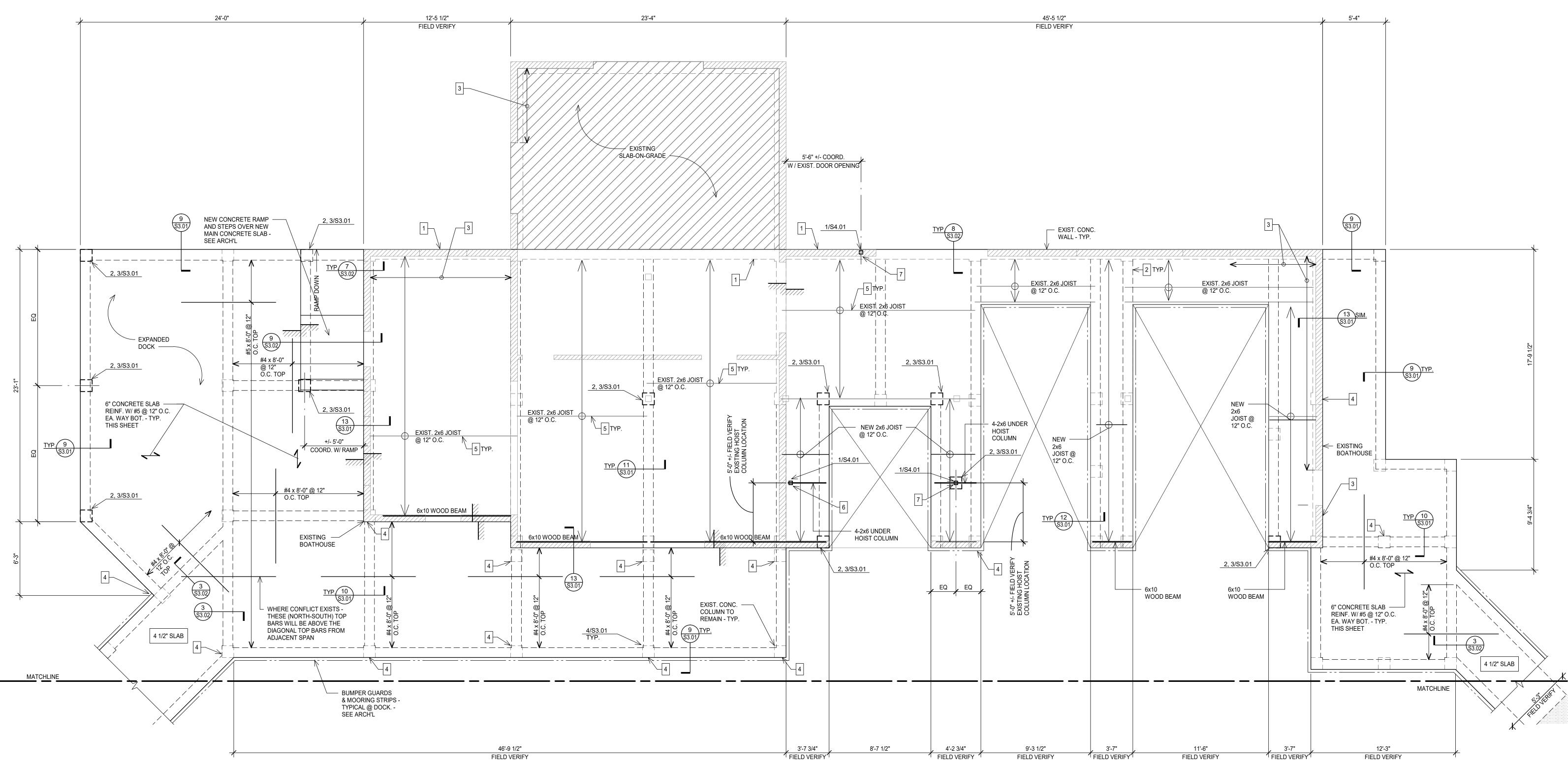
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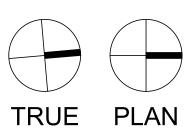
McCoy Collaborative

Preservation Architecture, PLLC

3200 Main Street #3.6

SHEET NUMBER





NORTH NORTH

# BOATHOUSE & EXPANDED DOCK FRAMING PLAN

# PLAN NOTES:

- 1. CONTRACTOR SHALL INSTALL A TEMPORARY BULKHEAD IN LAKE AS REQUIRED TO PERFORM DEMOLITION AND REPAIRS. SEE A0.01 AND C1.02 -SEE SPECIFICATIONS. (DELEGATED DESIGN)
- 2. EXISTING FLOOR / SLAB ELEVATIONS TO REMAIN U.N.O. TYP.
- 3. ALL ADDITIONAL TOP BARS SHOWN ARE STAGGERED WITH THE MAIN SLAB REINFORCEMENT.

# **KEYNOTES**:

- 1 BACKFILL ERODED AREAS AT CONCRETE FOUNDATION WALL SEE 2/S5.01
- 2 CONCRETE BEAMS.
- 3 REPAIR BASE OF DETERIORATED STUDS AND SILL PLATE OR REMOVE AND REPLACE -SEE 7/S5.01.
- REPAIR SURFACE OF DETERIORATED CONCRETE COLUMNS TO RESTORE COVER, TYP. SEE 6/S5.01 AND 11/S3.02 SEE DOCK PILING AND FOOTER SURVEY FOR ADDITIONAL INFO.
- 5 REPLACE DETERIORATED WOOD JOISTS AND DECK, THROUGHOUT BUILDING TYP. SEE 4/S5.01.

CONDITIONS.

SHOWN ON THESE DRAWINGS.

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL

CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING

BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER

DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE

- 6 REPLACE STEEL HOIST COLUMN WITH HSS3 1/2 x3 1/2x1/4.
- 7 NEW HOIST COLUMN HSS3 1/2x3 1/2x1/4



McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118

JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 972.392.7340

PROJECT NO: 4160267

DALLAS, TEXAS 75207 JQIENG.COM

TBPE FIRM F-7986

SHEET TITLE **BOATHOUSE & EXPANDED** DOCK FRAMING

SHEET NUMBER S2.01

PLAN

DATE: 08-28-2020

REVISED:

REVISED:

REVISED:

DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB

PARKS &

WILDLIFE

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FSVILLE STAS TO CCC BUILT BOATHOUS

NORTH NORTH

1. CONTRACTOR SHALL INSTALL A TEMPORARY

BULKHEAD IN LAKE AS REQUIRED TO PERFORM

2. EXISTING FLOOR / SLAB ELEVATIONS TO REMAIN

U.N.O. - TYP. SHADED AREA INDICATES NEW

CONCRETE DOCK ELEVATION IS LOWER THAN EXISTING.

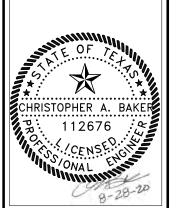
LOWER DOCK ELEVATION (I.E. NO STEPS IN BOAT DOCK)

THIS SHADED AREA WILL BE PLACED AT THE EXISTING

DEMOLITION AND REPAIRS. SEE A0.01 AND C1.02 -SEE SPECIFICATIONS. (DELEGATED DESIGN)

PARKS & WILDLIFE

> 100% CD **DOCUMENT**



DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB REVISED:

REVISED: REVISED:

SHEET TITLE **BOAT DOCK** FRAMING PLAN

SHEET NUMBER

shaping the built environment JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 972.392.7340 DALLAS, TEXAS 75207 JQIENG.COM

TBPE FIRM F-7986

PROJECT NO: 4160267

CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

SHOWN ON THESE DRAWINGS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER

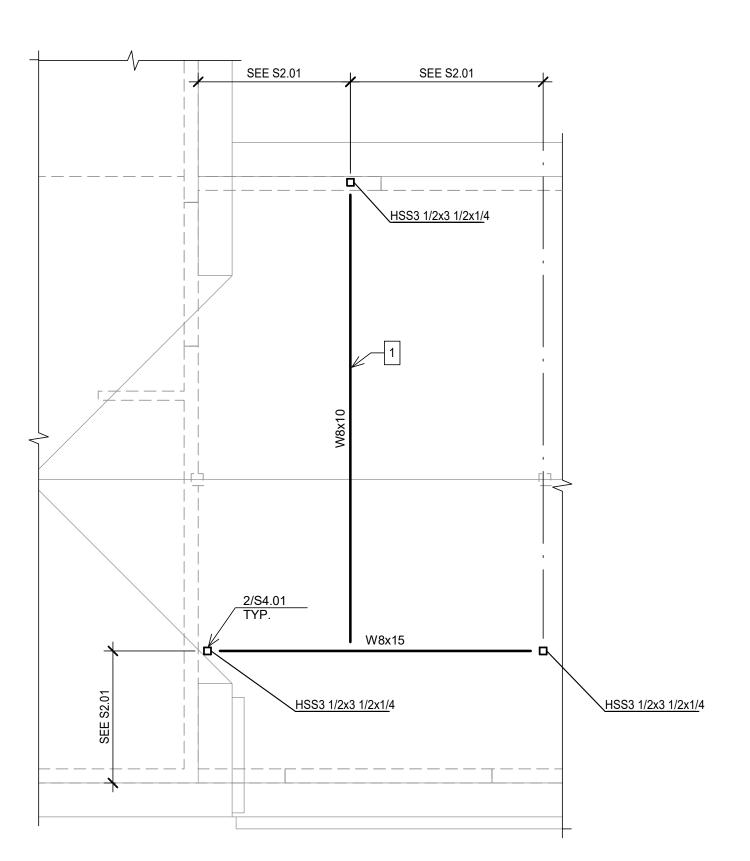
DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR

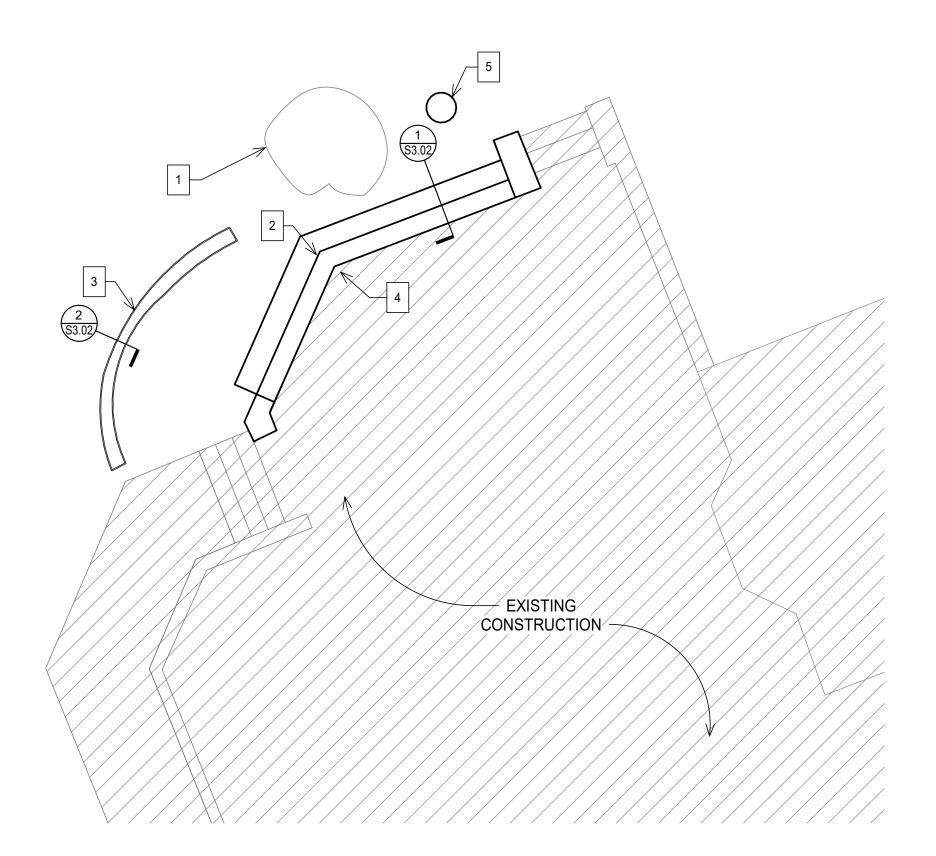
CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY

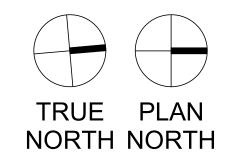
MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE

- REPAIR BASE OF DETERIORATED STUDS AND SILL PLATE OR REMOVE AND REPLACE -
- REPAIR SURFACE OF DETERIORATED CONCRETE COLUMNS TO RESTORE COVER, TYP. SEE 6/S5.01 AND 11/S3.02 SEE DOCK PILING AND FOOTER SURVEY FOR ADDITIONAL INFO.
- 5 REPLACE DETERIORATED WOOD JOISTS AND DECK, THROUGHOUT BUILDING TYP. SEE 4/S5.01
- 6 REPLACE STEEL HOIST COLUMN WITH HSS3 1/2 x3 1/2x1/4.
- 7 NEW HOIST COLUMN HSS3 1/2x3 1/2x1/4













TRUE PLAN NORTH NORTH

KEYNOTES:

1 STEEL HOIST BEAM AND COLUMN, MAXIMUM CAPACITY = 1000 LBS.

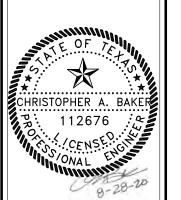
ALL STEEL IS TO BE HOT-DIPPED GALVANIZED.

# 2 RAVEN LODGE SITE WALL PLAN

- 1 EXISTING TREE TO BE REMOVED SEE 8/S5.01.
- RECONSTRUCT EXISTING RETAINING WALL, INCLUDING REPLACEMENT OF EXISTING CONCRETE FOOTING SEE 9/S5.01. SEE ARCHITECTURAL FOR STONE MASONRY RECONSTRUCTION.
- RECONSTRUCT LOWER RETAINING WALL SEE 10/S5.01. SEE ARCHITECTURAL FOR STONE MASONRY RECONSTRUCTION.
- 4 SETTLED EXISTING CONCRETE SLAB-ON-GRADE.
- 5 REMOVE EXISTING TREE STUMP.



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DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB REVISED:

DATE: 08-28-2020

REVISED:

SHEET TITLE

BOATHOUSE

AND RAVEN LODGE SITE

WALL PLAN

HOIST FRAMING AND RAVEN

REVISED:

McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118

JQ INFRASTRUCTURE, LLC

SHEET NUMBER DALLAS, TEXAS 75207 JQIENG.COM

TBPE FIRM F-7986

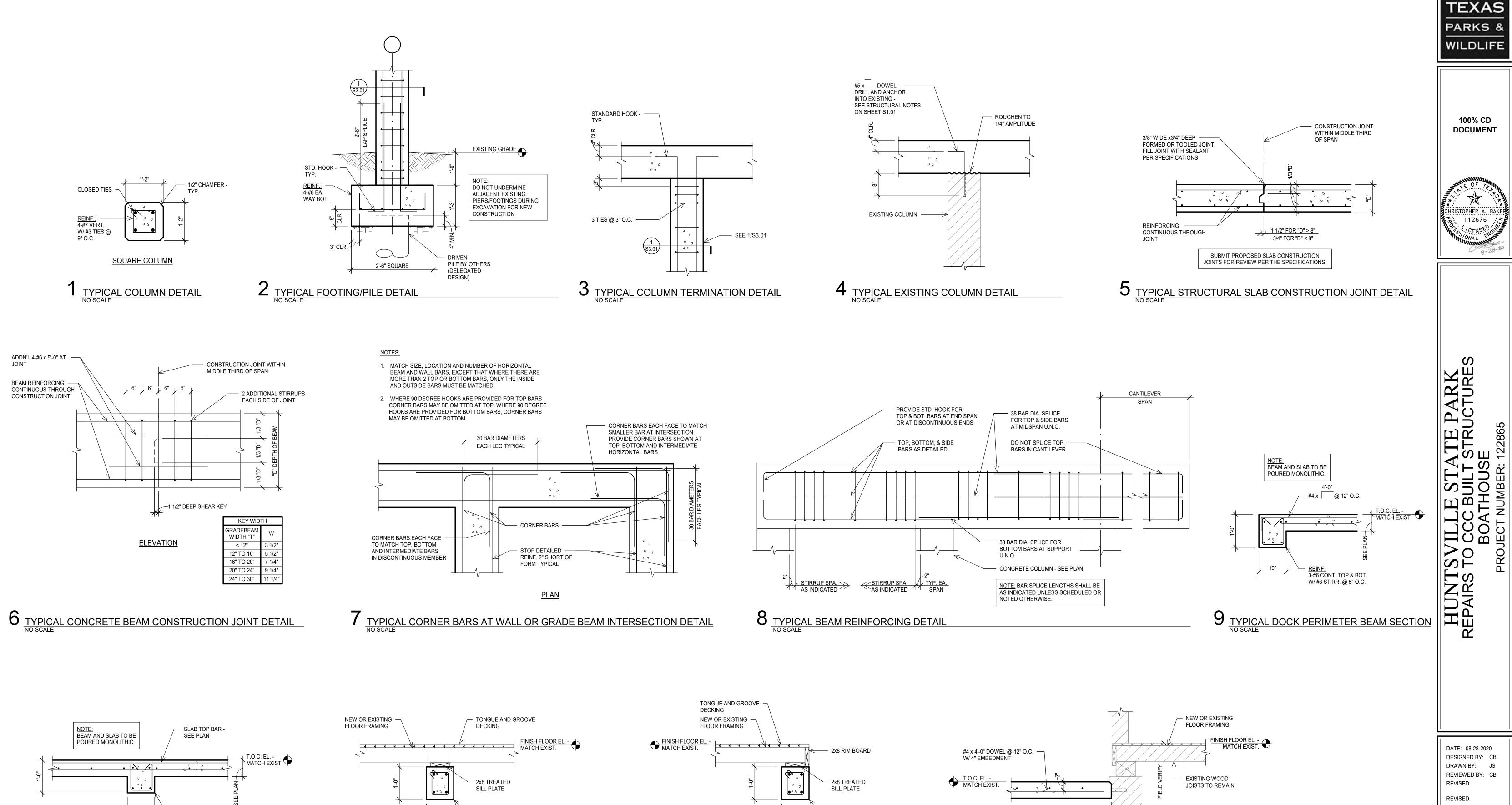
**M**cCOY COLLABORATIVE

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

100 GLASS STREET, SUITE 201 972.392.7340 PROJECT NO: 4160267



- <u>REINF.</u> 2-#6 CONT. TOP & BOT. W/ #3 STIRR. @ 5" O.C.

10"

12 TYPICAL BOATHOUSE PERIMETER BEAM SECTION

10"

10 TYPICAL DOCK INTERIOR BEAM SECTION NO SCALE

- <u>REINF.</u> 3-#6 CONT. TOP & BOT. W/ #3 STIRR. @ 5" O.C.

- <u>REINF.</u> 2-#6 CONT. TOP & BOT. W/ #3 STIRR. @ 5" O.C.

10"

11 TYPICAL BOATHOUSE INTERIOR BEAM SECTION

DATE: 08-28-2020 DESIGNED BY: CB DRAWN BY: JS REVIEWED BY: CB

REVISED:

SHEET TITLE TYPICAL CONCRETE **DETAILS** 

SHEET NUMBER S3.01 JQ INFRASTRUCTURE, LLC DALLAS, TEXAS 75207 JQIENG.COM

TBPE FIRM F-7986

**M¢COY** 

McCoy Collaborative

Preservation Architecture, PLLC 3200 Main Street #3.6

> Dallas, Texas 75226 Ph: 214.977.9118

100 GLASS STREET, SUITE 201 972.392.7340

PROJECT NO: 4160267

- EXISTING CONCRETE
BEAM - FIELD VERIFY SIZE AND
LOCATION - NOTIFY A/E ONCE
EXISTING CONCRETE BEAM IS
EXPOSED - SEE SD2.01

3/4" KEY-



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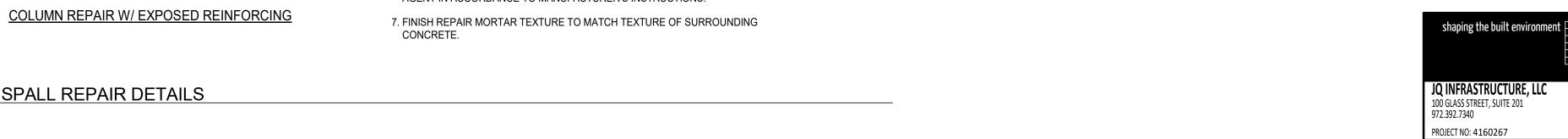
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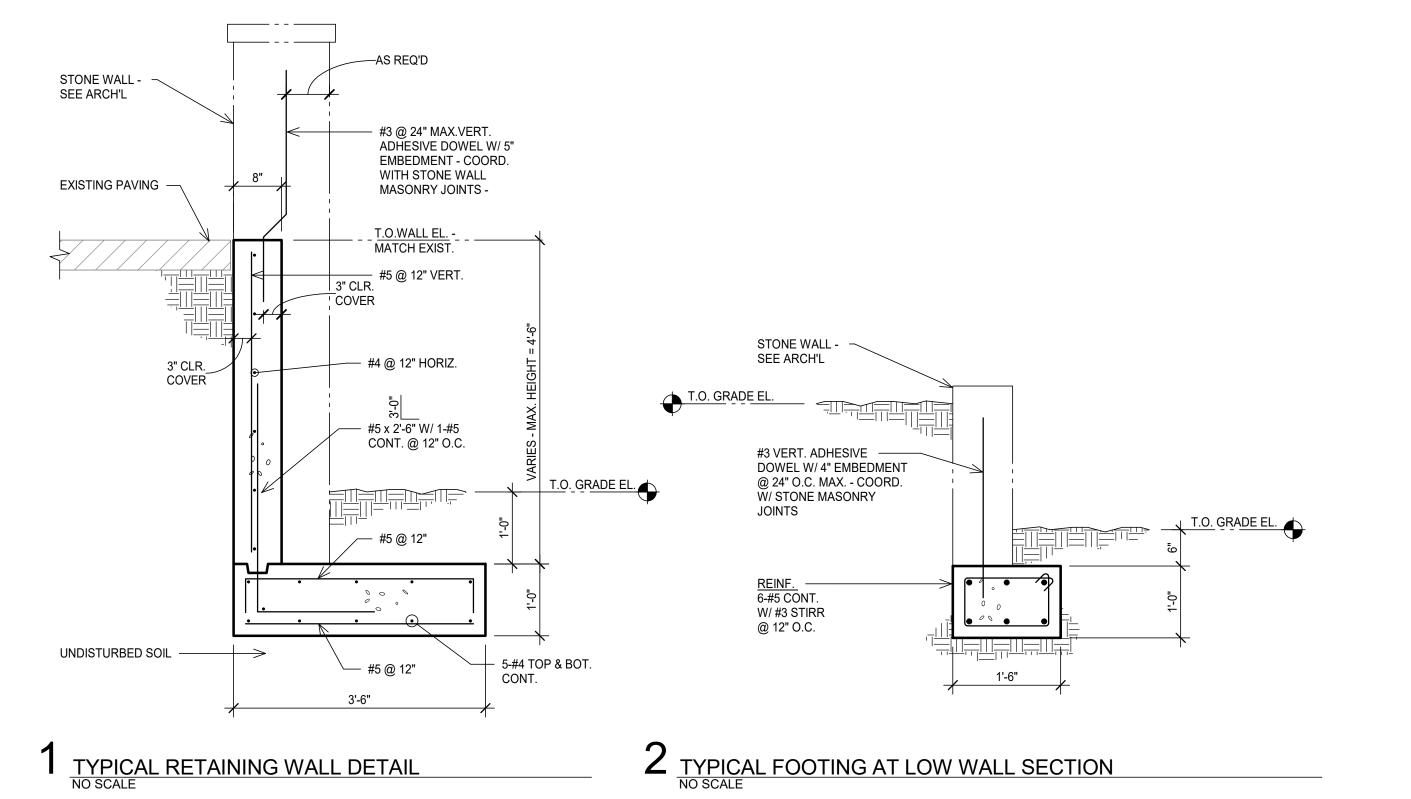
TSVILLE STATE PARK
S TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865 HUNT REPAIRS

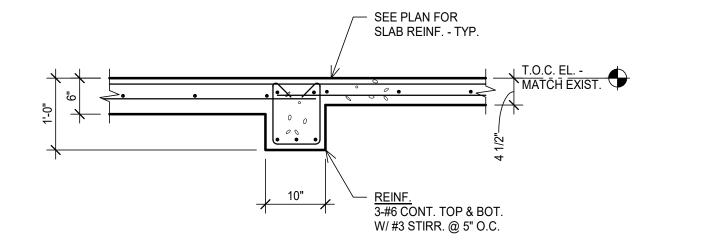
DATE: 08-28-2020 DRAWN BY: JS REVISED: REVISED:

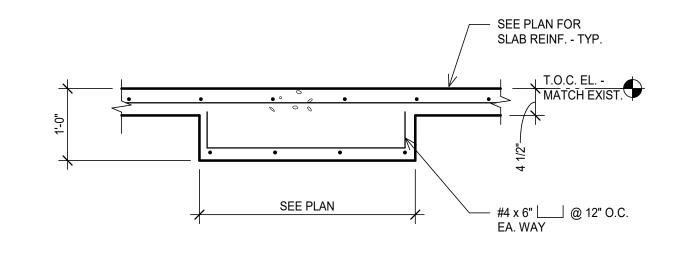
SHEET TITLE **TYPICAL** CONCRETE **DETAILS** 

SHEET NUMBER S3.02









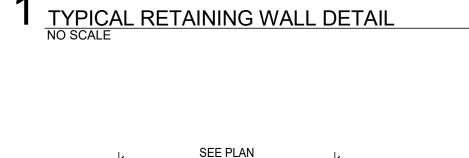
4 SECTION NO SCALE

9 <u>SECTON AT RAMP LANDING</u>







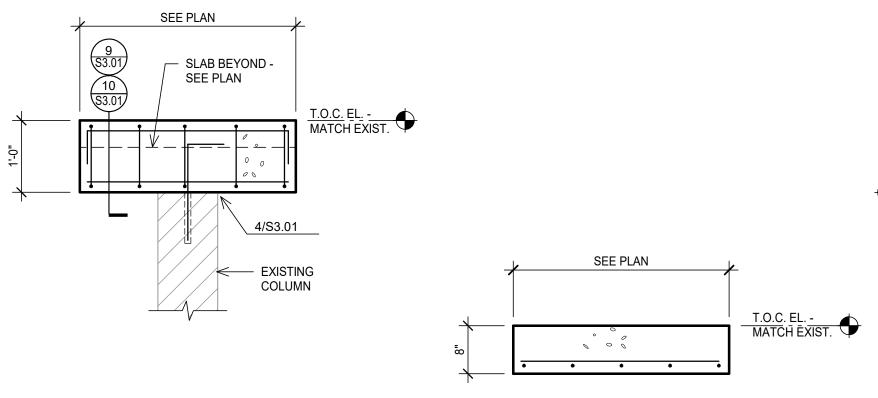


5 SECTION NO SCALE

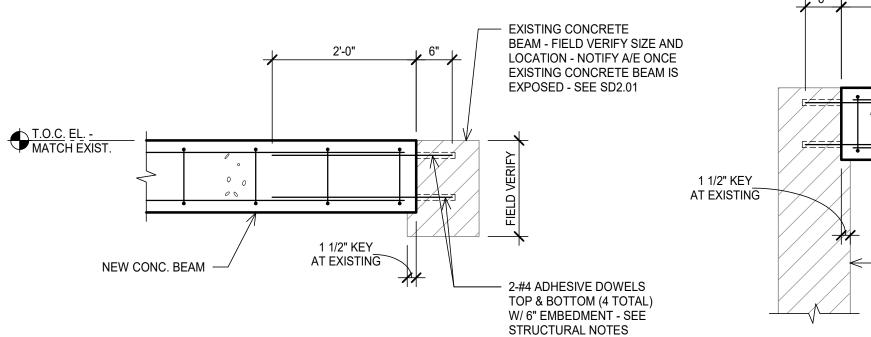
#5 x DOWEL (4 TOTAL) -DRILL AND ANCHOR INTO

10 SECTION AT CAP

**EXISTING - SEE STRUCTURAL** 

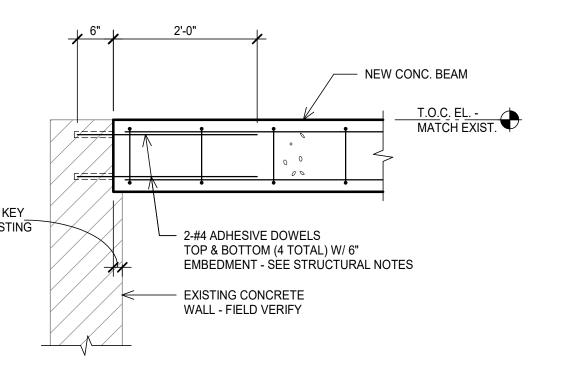


6 SECTION NO SCALE



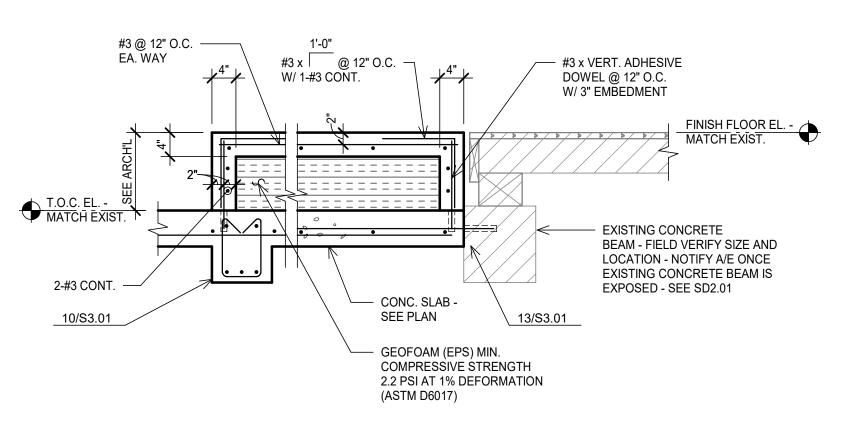
\_\_\_ EXIST. SLAB

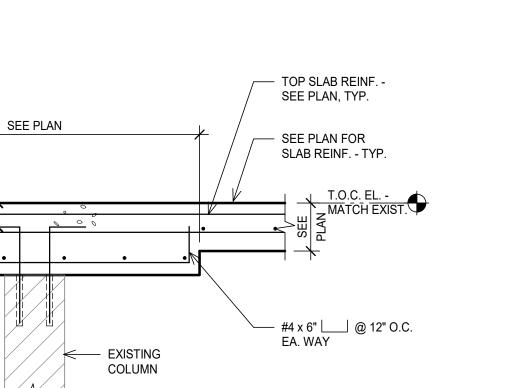
CONCRETE SHALL BE CUT



\_\_\_ EXIST. SLAB

8 CONCRETE BEAM CONNECTION DETAIL NO SCALE



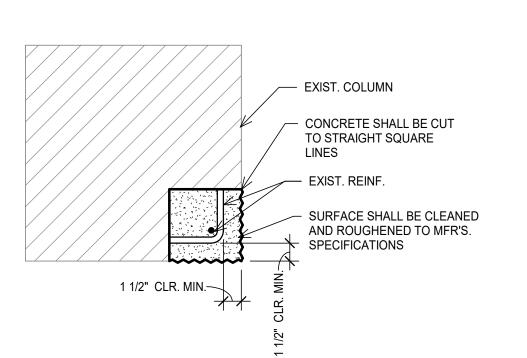


AND ROUGHENED TO MFR'S. TO STRAIGHT SQUARE 1/2" 1/2" SPECIFICATIONS LINES "A" TYPICAL REPAIR W/ EXPOSED REINFORCING

SURFACE SHALL BE CLEANED

CONCRETE BEAM CONNECTION DETAIL
NO SCALE

EXIST. REINF.



SURFACE SHALL BE CLEANED CONCRETE SHALL BE CUT TO STRAIGHT SQUARE AND ROUGHENED TO MFR'S. SPECIFICATIONS



# REPAIR MORTAR NOTES:

- 1. CONCRETE REPAIR MORTAR SHALL BE EQUAL TO "SIKATOP 123 PLUS" NON-SAG MORTAR BY THE SIKA CORPORATION WITH A FERRO GUARD PENETRATING CORROSION INHIBITOR.
- 2. ALL SURFACES TO WHICH CONCRETE REPAIR MORTAR IS TO BE APPLIED SHALL HAVE ALL LOOSE AND UNSOUND MATERIAL REMOVED. MANUFACTURER'S RECOMMENDATIONS. WIRE BRUSH, POWER TOOL BRUSH, OR SANDBLAST ANY EXPOSED RUSTED REINFORCING STEEL TO REMOVE LOOSE RUST.
- 3. AT PERIMETER OF AREA TO BE REPAIRED, CHIP OUT EXISTING CONCRETE TO A MINIMUM DEPTH OF 3/8". DO NOT FEATHER REPAIR MORTAR AT EDGES.
- 4. COMPLY WITH ALL HANDLING, MIXING, PLACING AND CURING REQUIREMENTS AS SPECIFIED BY THE REPAIR MORTAR MANUFACTURER.
- 5. APPLY SCRUB COAT OF REPAIR MORTAR TO SATURATED SURFACE DRY CONCRETE IN ACCORDANCE TO PRODUCT SPECIFICATIONS.
- 6. PRIME REINFORCING STEEL WITH "SIKA ARMATEC 110" OR EQUAL BONDING AGENT IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

11 COLUMN SPALL REPAIR DETAILS
NO SCALE

DESIGNED BY: CB REVIEWED BY: CB REVISED:

DALLAS, TEXAS 75207 JQIENG.COM

TBPE FIRM F-7986

**M**cCOY

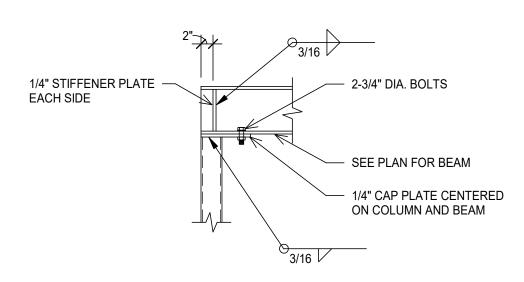
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Preservation Architecture, PLLC

3200 Main Street #3.6

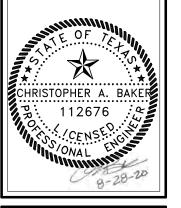
Dallas, Texas 75226 Ph: 214.977.9118



1 TYPICAL BASE PLATE DETAIL - EDGE COLUMN NO SCALE



100% CD DOCUMENT



REVIEWED BY: CB REVISED: REVISED: **M¢COY** REVISED:

DATE: 08-28-2020

DESIGNED BY: CB DRAWN BY: JS

SHEET TITLE
TYPICAL STEEL
DETAILS



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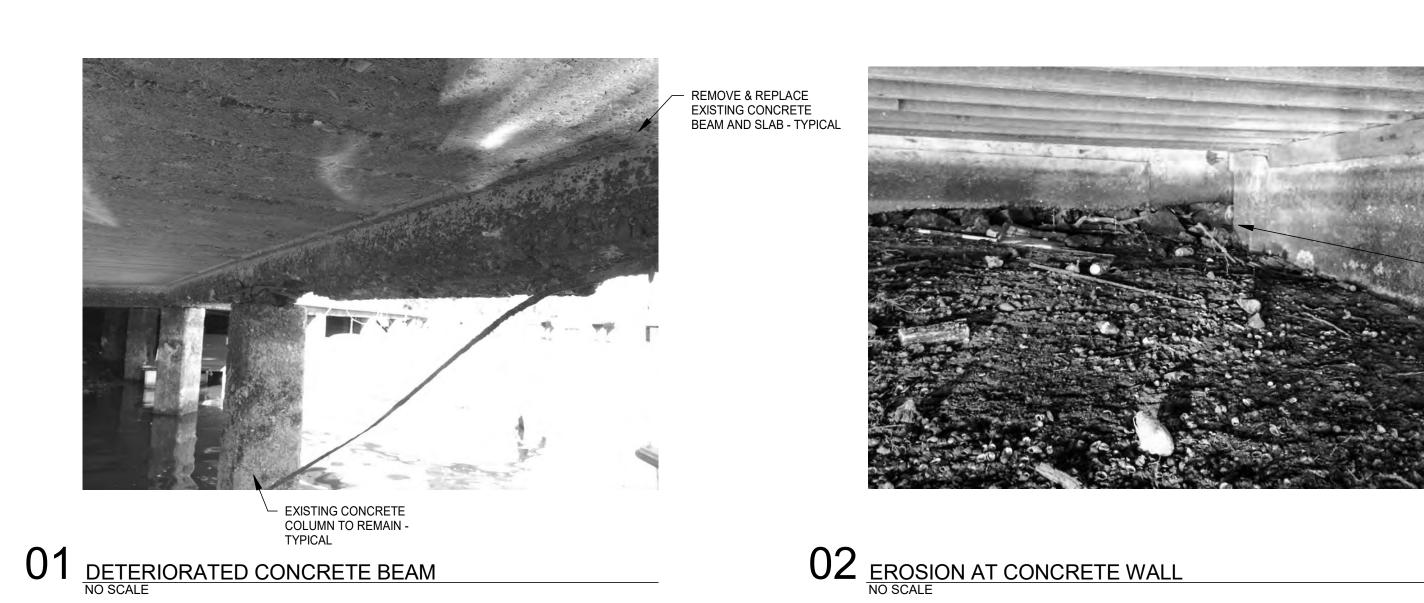
McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226

> SHEET NUMBER S4.01

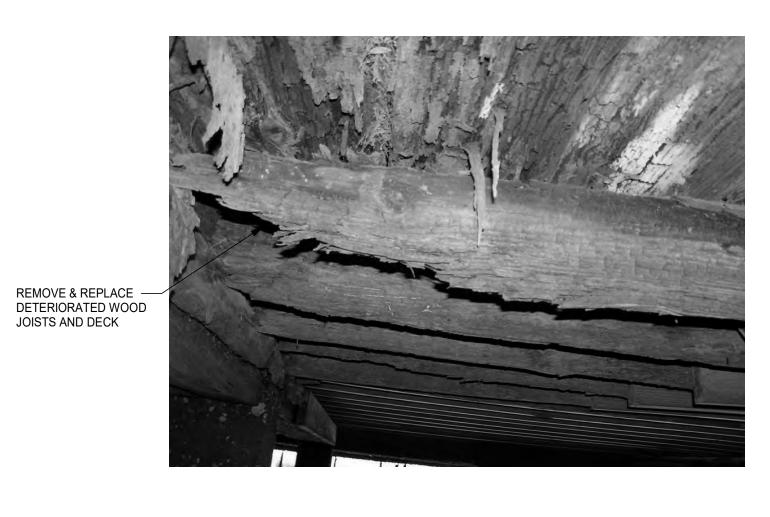
REVISED:

SHEET TITLE
TYPICAL
PHOTOGRAPHS
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S5.01



REMOVE & REPLACE
DETERIORATED WOOD BEAM - BACKFILL ERODED AREAS AT CONCRETE FOUNDATION WALL



03 DETERIORATED WOOD BEAM NO SCALE

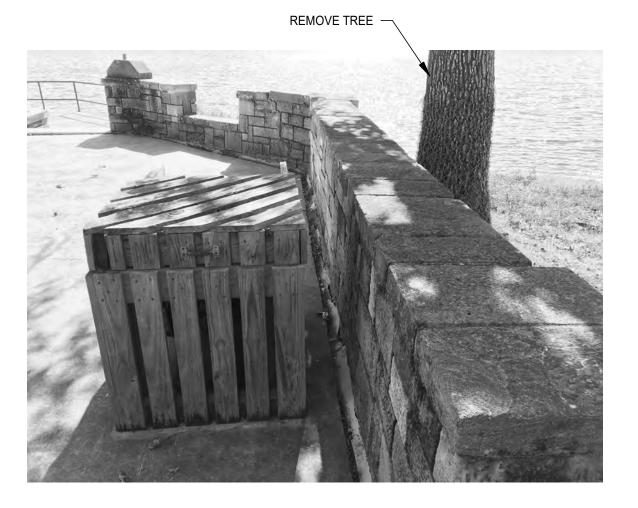
04 DETERIORATED WOOD JOISTS & DECK



05 CORRODED STEEL PIPE COLUMN

09 CRACKED & SHIFTED RETAINING WALL

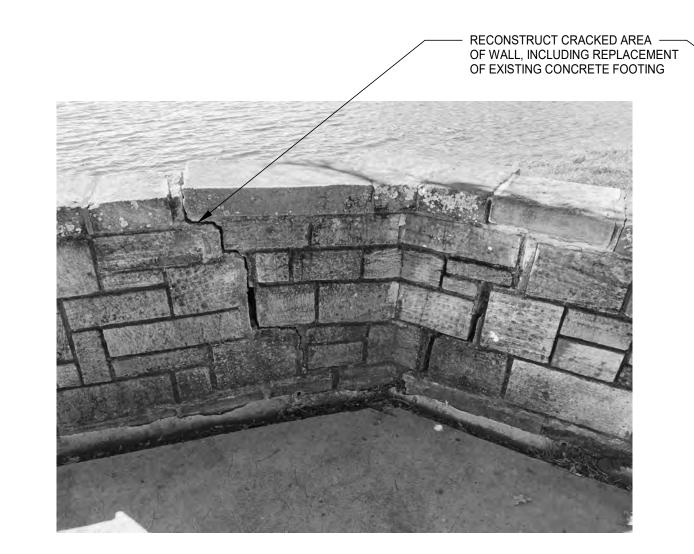




06 DETERIORATED CONCRETE COLUMNS NO SCALE

07 DETERIORATED WOOD WALL STUDS

08 CRACKED & SETTLED RETAINING WALL NO SCALE





10 DETERIORATED LOWER RETAINING WALL NO SCALE

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## **GENERAL NOTES SITE PLAN**

- REFER CIVIL DRAWINGS FOR DIMENSIONS, DISTANCES TO PROPERTY LINES AND OTHER
- INFORMATION. 2. SEED WITHIN AREAS OF CONSTRUCTION FENCING, REMOVAL OF SIDEWALK AND OTHER FEATURES, ADJACENT TO FENCING, OTHER AREAS OF WORK AND AREAS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.

# **KEYNOTES**

- (1) EXISTING CONCRETE WALK
- 2 EXISTING TIMBER RETAINING WALL
- (3) EXISTING PAVING
- 4 EXISTING TREE
- [5] EXISTING PICNIC AREA
- (6) EXISTING UTILITY POLE
- (7) EXISTING WATER SHUT-OFF 8 EXISTING CONCRETE CURB
- 9 EXISTING LIGHT POLE
- SIGNAGE OWNER PROVIDED, CONTRACTOR INSTALLED "ACCESSIBLE RESTROOMS LOCATED AT SOUTH SIDE OF PARKING LOT"
- (1) CONCRETE RETAINING WALL, REF. CIVIL
- ADD ALTERNATE #1: LIGHT POLE, 12"
  DIA. X 12'-0" HIGH. REF. 06/A6.03
- (13) CONCRETE PAVING, REF. CIVIL
- (14) CONCRETE STEPS, REF. CIVIL, AND 05/A6.03
- ADD ALTERNATE #3: NORTH WALK CONCRETE PAVING, REF. CIVIL
- POTENTIAL CONTRACTOR STAGING AND PARKING AREA DURING CONSTRUCTION
- SALVAGE FOR REUSE STONE AND REPLACE CONCRETE RETAINING WALL.
- REF. STRUCTURAL \$ A6.03 LIMITS OF CONSTRUCTION -
- APPROXIMATE TEMPORARY BULKHEAD (COFFER DAM) AT LAKE LOCATION. REF. STRUCTURAL AND CIVIL
- 19 EXISTING LODGE PATIO
- 20 EXISTING CONCRETE DOCK
- 21 AT MARSH GRASS AREA, REMOVE MARSH GRASS/ TOPSOIL TO A DEPTH OF 1'-0" +/- (TO CAPTURE MARSH GRASS ROOTS) AND SET ASIDE ON NEARBY LAND; REPLACE FOLLOWING COMPLETION OF WORK TO MATCH ORIGINAL ELEVATION AND CONTOUR
- REMOVE AND REPLACE CONCRETE DOCK SLABS.
  REMOVE TOP PORTION OF CONCRETE COLUMNS
  SO THAT REPLACEMENT SLAB IS LEVEL. REF.
- METAL SIGN, I 2"X I 8" AT 36" ABOVE GRADE WITH METAL POLE SET IN CONCRETE. DIRECTIONAL SIGNAGE TO ACCESSIBLE ROUTE
- APPROXIMATE LOCATION OF EXISTING WATER LINE. CONFIRM EXACT LOCATION PRIOR TO STARTING WORK
- APPROXIMATE TEMPORARY LOCATION FOR EXCAVATED MATERIAL

# PROTECTIVE FENCING

**EXISTING RAVEN** 

LODGE

02 PARTIAL SITE PLAN AT LODGE SCALE: 1"=30'-0"

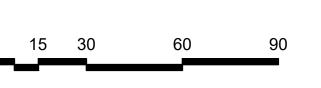
PROTECT TREES DURING THE WORK INCLUDING 4' HIGH PROTECTIVE FENCING WHICH COMPLETELY ENCLOSES THE DRIP LINE OF THE TREE UNTIL CONSTRUCTION IS COMPLETED. DURING CONSTRUCTION, NO EXCESS SOIL, ADDITIONAL FILL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS MAY BE PLACED INSIDE THE PROTECTIVE BARRIER, NOR MAY ANY SOIL BE REMOVED FROM WITHIN THE BARRIER. ASSUME 25 TREES.

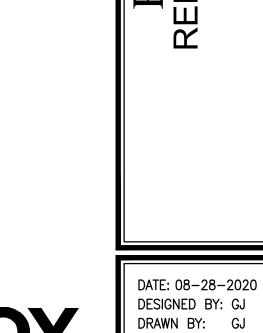
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REVIEWED BY: NM

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PARKS &

**WILDLIFE** 

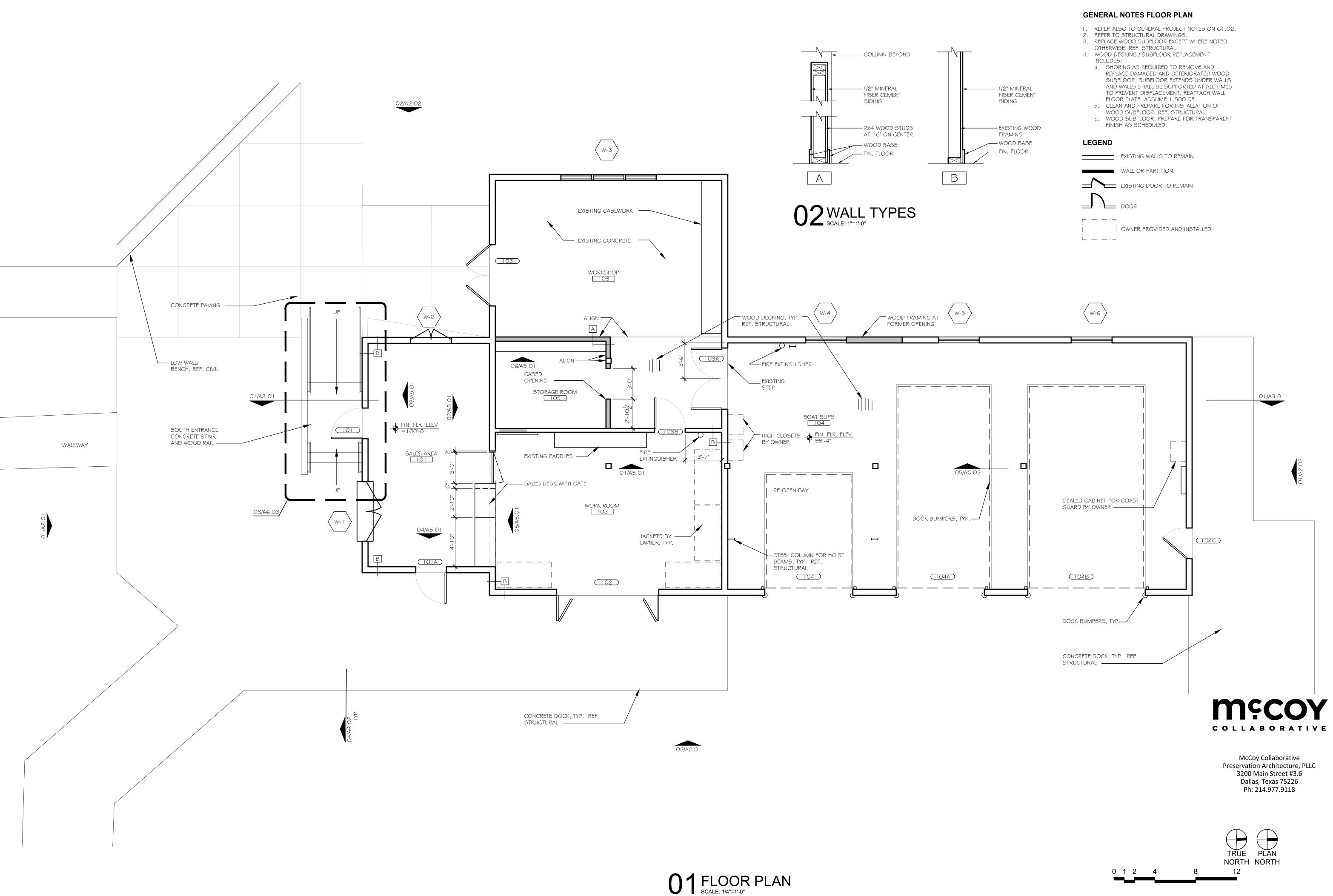
SHEET TITLE ARCHITECTURAL SITE PLAN

SHEET NUMBER A0.01

122865 - A001.dwg

1 ARCHITECTURAL SITE PLAN SCALE: 1"=30'-0"

LAKE RAVEN







DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: NM REVISED: REVISED:

REVISED:

SHEET TITLE FLOOR

SHEET NUMBER A1.01

122865 - A101.dwg



I. RESTORE EXTERIOR MATERIALS, EXCEPT WHERE

NOTED OTHERWISE.

2. CARPENTRY RESTORATION SHOWN ON THE DRAWINGS INDICATES THE APPROXIMATE LOCATION AND SIZE OF SUCH WORK; SUCH WORK IS TO BE UNDERTAKEN ONLY WHERE NEEDED. IN ADDITION TO REPAIR WORK SHOWN ON DRAWINGS, PROVIDE AN ADDITIONAL 20% OF THE TOTAL QUANTITY SHOWN ON THE DRAWINGS. LOCATION AND QUANTITIES TO BE VERIFIED WITH ARCHITECT PRIOR TO BEGINNING

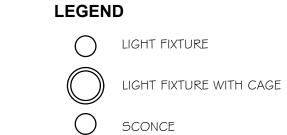
3. THE RESTORATION OF WOOD ELEMENTS TO INCLUDE

SOFFITS, TRIM, EAVES AND RAFTER TAILS. 4. CARPENTRY RESTORATION INCLUDES: a. REMOVE PAINT TO BARE WOOD.

b. REMOVE BIOLOGICAL GROWTH. c. REPAIR DETERIORATED OR DAMAGED WOOD AND REPLACE WHERE REPAIR IS NOT FEASIBLE.

d. SEALANT. e. PREPARE SURFACES FOR TRANSPARENT FINISH

AS SCHEDULED. 5. PAINT EXPOSED METAL SURFACES.

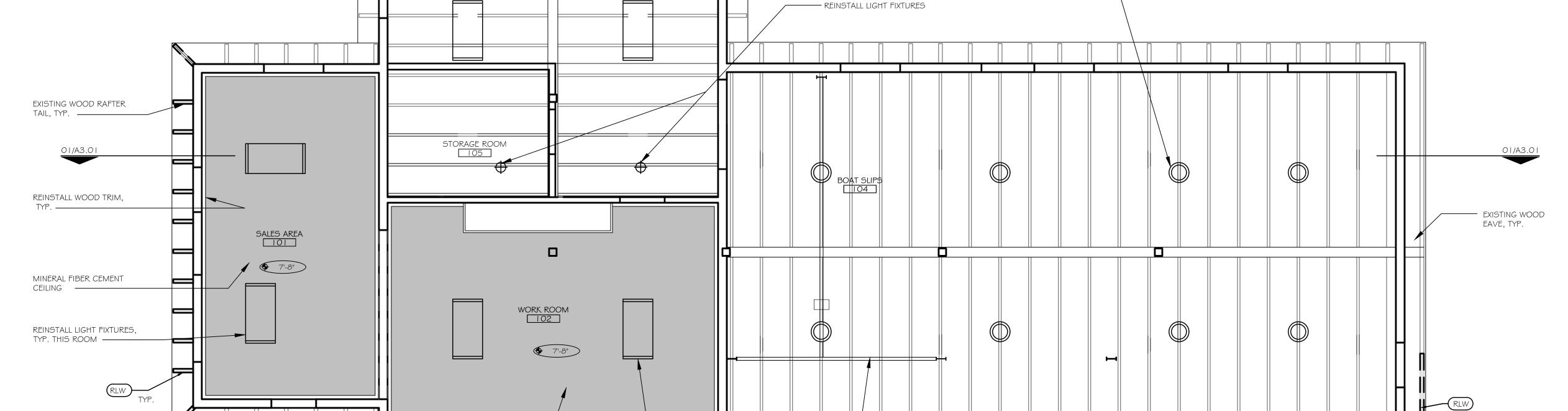


# **RESTORATION LEGEND**









(RLW)—

STEEL BEAMS AND HOIST,

REINSTALL LIGHT FIXTURES, TYP.

REF. STRUCTURAL -

THIS ROOM

REINSTALL WOOD TRIM, TYP.

MINERAL FIBER CEMENT

EXISTING LIGHT FIXTURE —

CEILING —

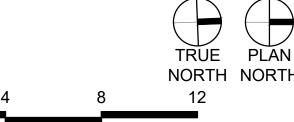
- EXISTING LIGHT FIXTURE, TYP.

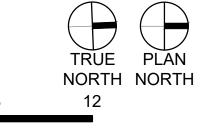
\_ EXISTING EXPOSED WOOD FRAMING, TYP.

EXISTING LIGHT FIXTURE, TYP.

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VILLE SOCC BUBOATHO

PARKS &

**WILDLIFE** 

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REVISED:

SHEET TITLE REFLECTED CEILING PLAN -BASE BID

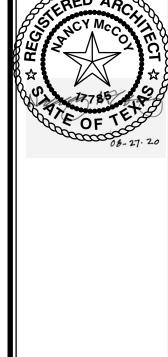
SHEET NUMBER

A1.02

122865 - A102.dwg







# VILLE (CCC BU BOATH(C))JECT NUME

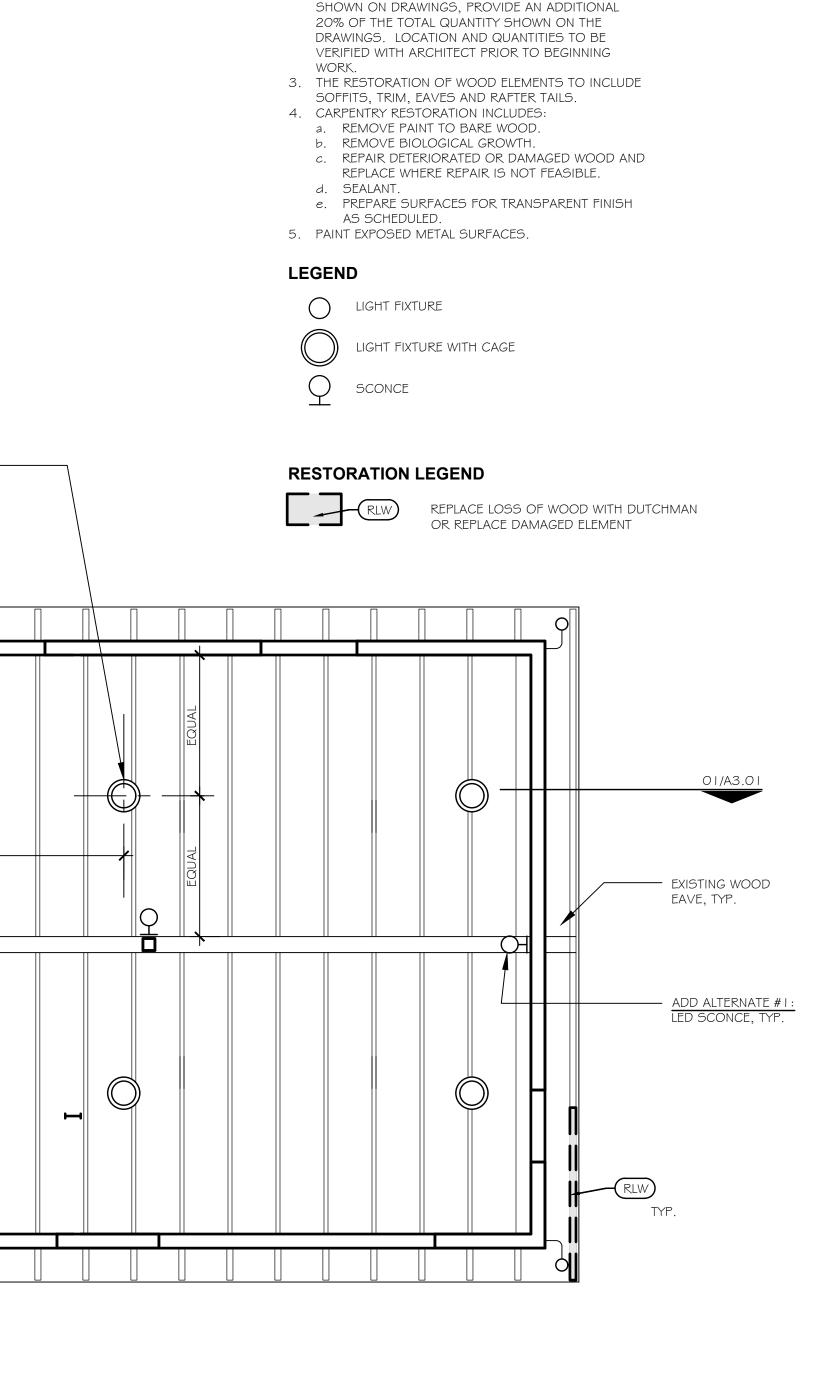
DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: NM REVISED:

REVISED:

REVISED:

SHEET TITLE REFLECTED CEILING

SHEET NUMBER A1.02A 122865 - A102A.dwg



**GENERAL NOTES REFLECTED CLG PLAN** 

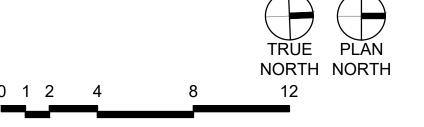
2. CARPENTRY RESTORATION SHOWN ON THE DRAWINGS INDICATES THE APPROXIMATE LOCATION AND SIZE OF SUCH WORK; SUCH WORK IS TO BE UNDERTAKEN ONLY WHERE NEEDED. IN ADDITION TO REPAIR WORK

I. RESTORE EXTERIOR MATERIALS, EXCEPT WHERE

NOTED OTHERWISE.



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ADD ALTERNATE # 1: LED PENDANT, TYP.

ADD ALTERNATE #1: LED PENDANT, TYP.

BOAT SLIPS

\_ STEEL BEAM AND HOIST, REF. STRUCTURAL

EQ

5'-4<del>3</del>" TYP.

7'-8"

+0

WORK ROOM

ADD ALTERNATE #1: EAVE LIGHT, TYP.—— RUN CONDUIT TIGHT

EXISTING WOOD RAFTER

01/A3.01

REINSTALL WOOD TRIM,

MINERAL FIBER CEMENT

CEILING

7'-8"

 $\overline{\phantom{a}}$ 

0

REINSTALL WOOD TRIM, TYP.

ADD ALTERNATE #1:
LED RECESSED FIXTURES, TYP. —

MINERAL FIBER CEMENT

CEILING —

TAIL, TYP. —

AGAINST RAFTER TAIL INTO WALL

RUN CONDUIT ON THE TOPSIDE OF EXISTING

WOOD JOISTS TO THE NEAREST WALL

\_ EXISTING EXPOSED WOOD FRAMING, TYP.

RUN CONDUIT ON THE TOPSIDE OF EXISTING

WOOD JOISTS TO THE NEAREST WALL

I. RESTORE EXTERIOR MATERIALS, EXCEPT WHERE

NOTED OTHERWISE.

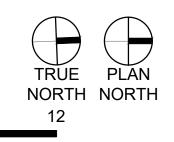
2. WOOD SHINGLE ROOFING, WORK TO

INCLUDE: a. REPAIR AND REPLACE DETERIORATED DECKING.

ASSUME 25%. b. UNDERLAYMENT AND VENTILATED

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01 ROOF PLAN - ADD ALTERNATE #2





HUNTSV REPAIRS TO (

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REVISED:

SHEET TITLE

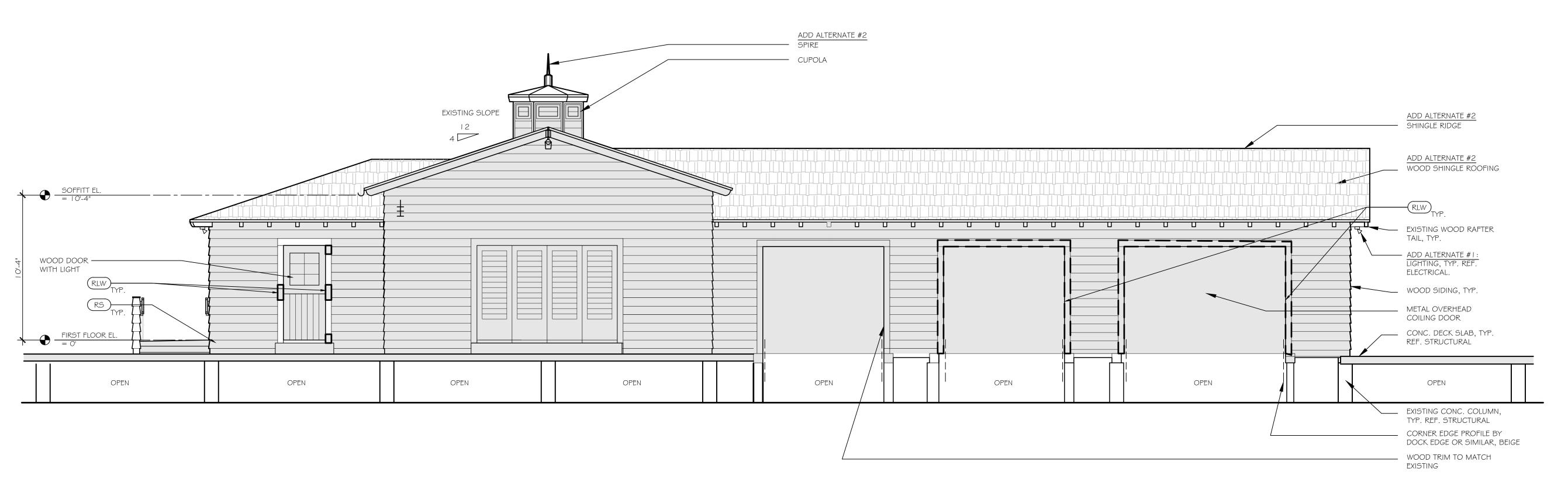
ROOF PLAN

SHEET NUMBER A1.03

122865 - A103.dwg

# 01 SOUTH ELEVATION SCALE: 1/4"=1'-0"

02 EAST ELEVATION SCALE: 1/4"=1'-0"



**GENERAL NOTES ELEVATIONS** 

I. RESTORE EXTERIOR MATERIALS, EXCEPT WHERE

NOTED OTHERWISE. 2. CARPENTRY RESTORATION SHOWN ON THE DRAWINGS INDICATES THE APPROXIMATE LOCATION AND SIZE OF SUCH WORK; SUCH WORK IS TO BE UNDERTAKEN

ONLY WHERE NEEDED. FINAL LOCATION MAY VARY. 3. FOR CARPENTRY RESTORATION, INCLUDE AN ADDITIONAL 20% OF THE TOTAL QUANTITY OF REPAIR WORK ON THE DRAWINGS. THE REPAIR COULD BE ANYWHERE ON THE BUILDING.

4. CARPENTRY RESTORATION INCLUDES DOORS, OPENINGS, RAFTER TAILS, WOOD DECKING AND TRIM.

5. CARPENTRY RESTORATION WORK TO INCLUDE: a. STRIP PAINT TO BARE WOOD. b. REPAIR AND REPLACE AS INDICATED.

d. PREPARE SURFACES FOR TRANSPARENT FINISH

AS SCHEDULED. 6. RESTORE DOORS.

7. RESTORE OPENINGS.

8. RESTORE RAFTER TAILS. 9. WOOD SIDING WORK TO INCLUDE: a. REMOVE AND REPLACE 100% TO MATCH

EXISTING. b. REMOVE METAL CAPS.

c. PREPARE SURFACES FOR TRANSPARENT FINISH AS SCHEDULED.

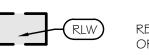
IO. REMOVE EXTRANEOUS AND ABANDONED ANCHORS, NAILS AND OTHER ELEMENTS.

I I. PAINT EXPOSED PREVIOUSLY PAINTED METAL SURFACES AS SCHEDULED.

## RESTORATION LEGEND



REPLACE SIDING



REPLACE LOSS OF WOOD WITH DUTCHMAN OR REPLACE DAMAGED ELEMENT

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SHEET TITLE **EXTERIOR ELEVATIONS** 

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DRAWN BY: GJ

REVIEWED BY: NM

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TEXAS

PARKS &

**WILDLIFE** 

E STATE PARK BUILT STRUCTURES HOUSE

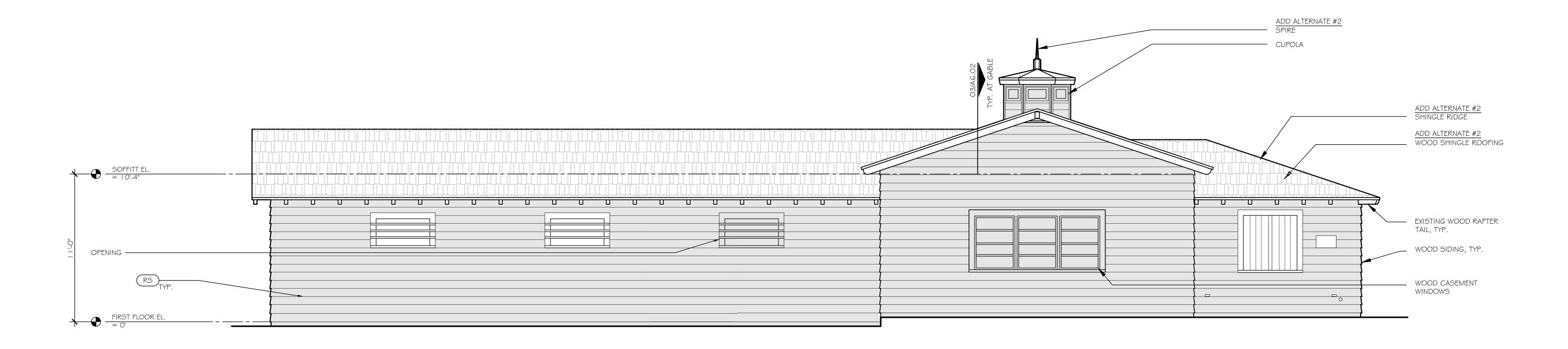
VILLE (CCC BU BOATH(C) JECT NUMI

HUNTSV REPAIRS TO

SHEET NUMBER A2.01

122865 - A201.dwg

# 01 NORTH ELEVATION SCALE: 1/4"=1'-0"



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**GENERAL NOTES ELEVATIONS** 

I. RESTORE EXTERIOR MATERIALS, EXCEPT WHERE

NOTED OTHERWISE.

2. CARPENTRY RESTORATION SHOWN ON THE DRAWINGS INDICATES THE APPROXIMATE LOCATION AND SIZE OF SUCH WORK; SUCH WORK IS TO BE UNDERTAKEN

ONLY WHERE NEEDED. FINAL LOCATION MAY VARY. 3. FOR CARPENTRY RESTORATION, INCLUDE AN ADDITIONAL 20% OF THE TOTAL QUANTITY OF REPAIR WORK ON THE DRAWINGS. THE REPAIR COULD BE

ANYWHERE ON THE BUILDING. 4. CARPENTRY RESTORATION INCLUDES DOORS, OPENINGS, RAFTER TAILS, WOOD DECKING AND TRIM.

5. CARPENTRY RESTORATION WORK TO INCLUDE: a. STRIP PAINT TO BARE WOOD.

b. REPAIR AND REPLACE AS INDICATED.

d. PREPARE SURFACES FOR TRANSPARENT FINISH AS SCHEDULED.

6. RESTORE DOORS. 7. RESTORE OPENINGS.

8. RESTORE RAFTER TAILS.

9. WOOD SIDING WORK TO INCLUDE: a. REMOVE AND REPLACE 100% TO MATCH

EXISTING. b. REMOVE METAL CAPS.

c. PREPARE SURFACES FOR TRANSPARENT FINISH AS SCHEDULED.

10. REMOVE EXTRANEOUS AND ABANDONED ANCHORS,

NAILS AND OTHER ELEMENTS. I I. PAINT EXPOSED PREVIOUSLY PAINTED METAL SURFACES AS SCHEDULED.

## **RESTORATION LEGEND**



REPLACE SIDING



REPLACE LOSS OF WOOD WITH DUTCHMAN OR REPLACE DAMAGED ELEMENT

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EXTERIOR **ELEVATIONS** 

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SHEET NUMBER A2.02

122865 - A202.dwg

02 WEST ELEVATION
SCALE: 1/4"=1'-0"

EXISTING CONC. COLUMN, TYP. REF. STRUCTURAL

07/A6.03

HUNTSVILLE STATE PARK
REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

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WILDLIFE

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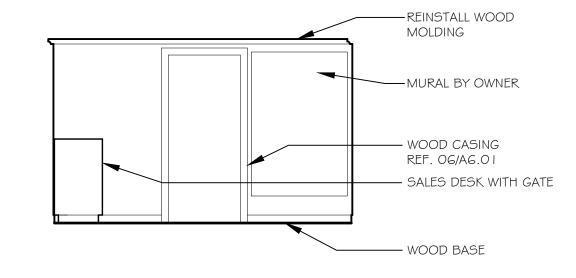
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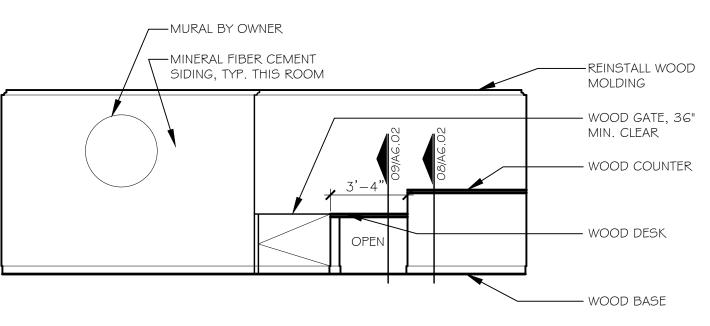
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A3.01 122865 - A301.dwg

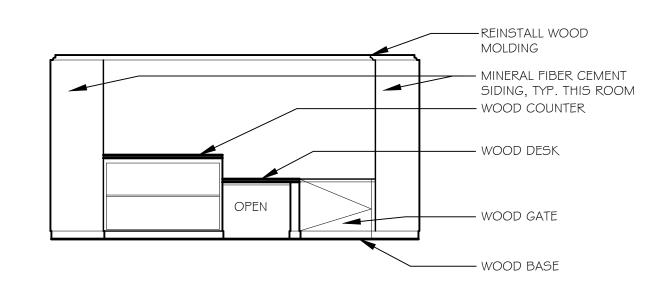
# 01 WORK ROOM WEST ELEVATION SCALE: 1/4"=1'-0"



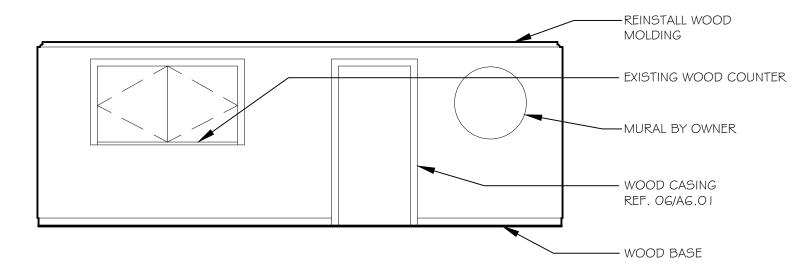
04 SALES AREA EAST ELEVATION



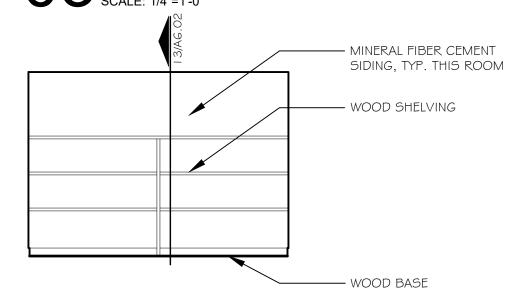
# 02 SALES AREA NORTH ELEVATION



05 SALES DESK WITH GATE ELEVATION



# 03 SALES AREA SOUTH ELEVATION



06 STORAGE ROOM WEST ELEVATION SCALE: 1/4"=1'-0"



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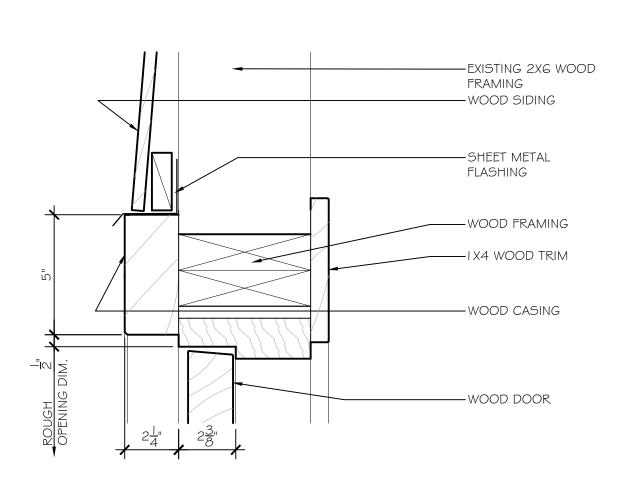
PARKS &

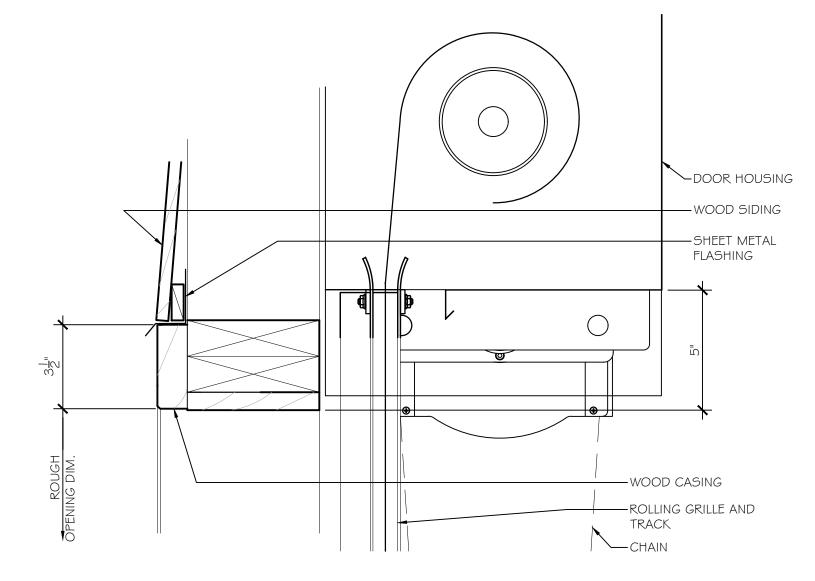
WILDLIFE

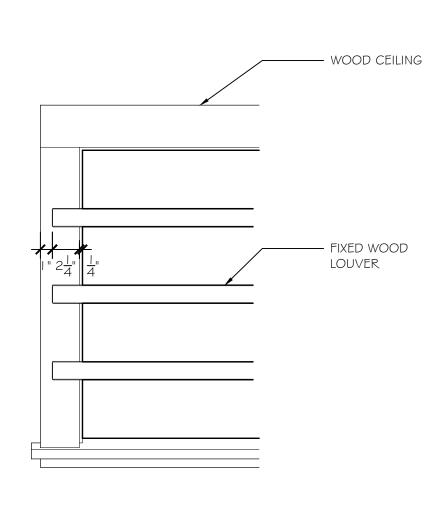
SHEET TITLE
INTERIOR
ELEVATIONS

A5.01

122865 - A501.dwg





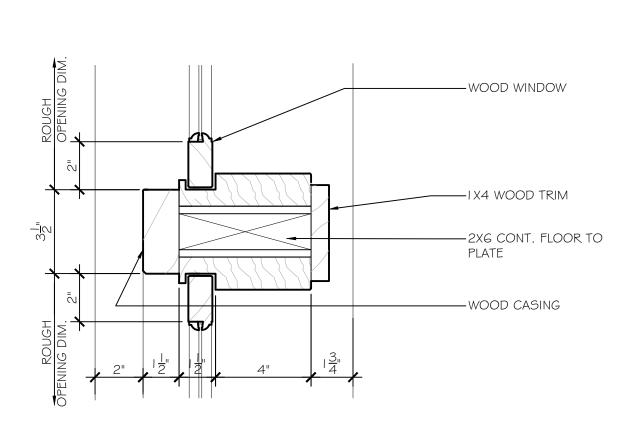


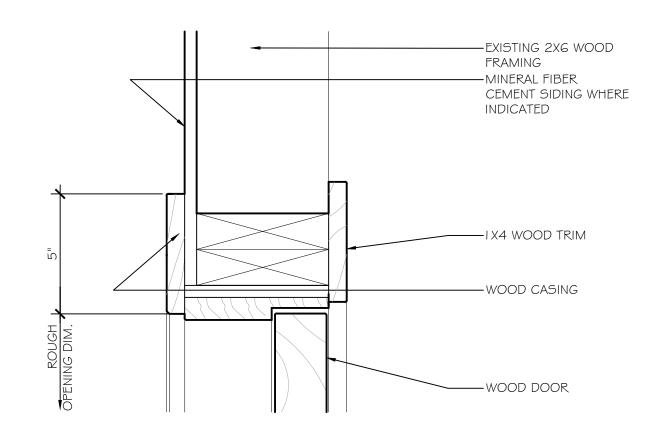
01 WINDOW HEAD SCALE: 3"=1'-0"

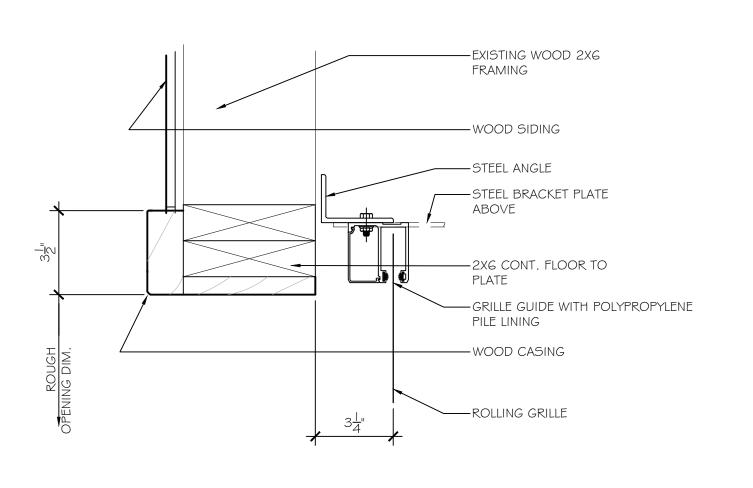


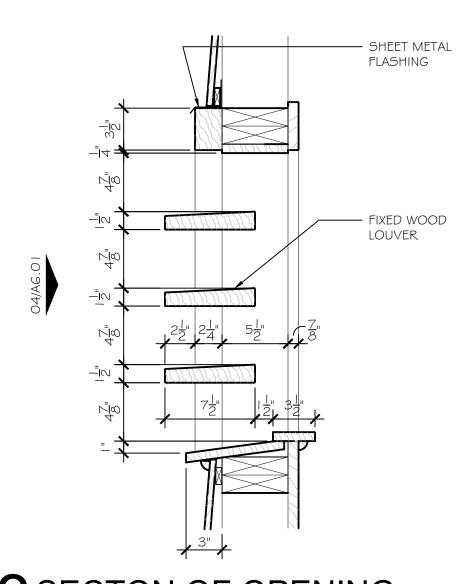
03 OVERHEAD COILING HEAD

04 ELEVATION OF OPENING SCALE: 1 1/2"=1'-0"







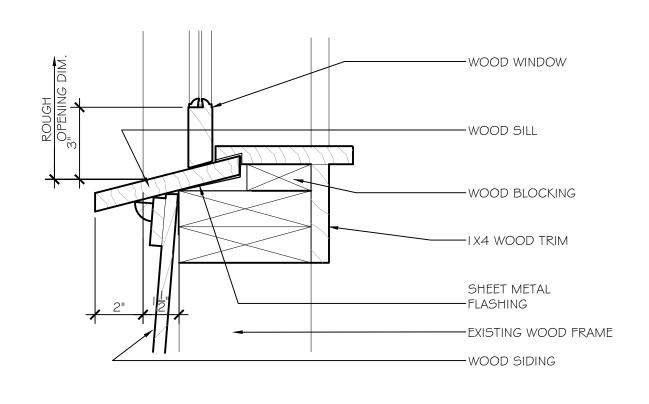


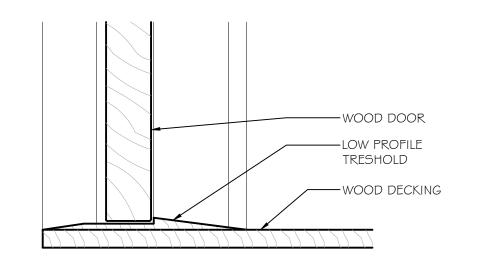
05 WINDOW JAMB

06 INTERIOR DOOR HEAD SCALE: 1-1/2"=1'-0"

07 OVERHEAD COILING JAMB

08 SECTON OF OPENING SCALE: 1 1/2"=1'-0"







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SHEET TITLE
DETAILS

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TEXAS

PARKS &

WILDLIFE

STO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

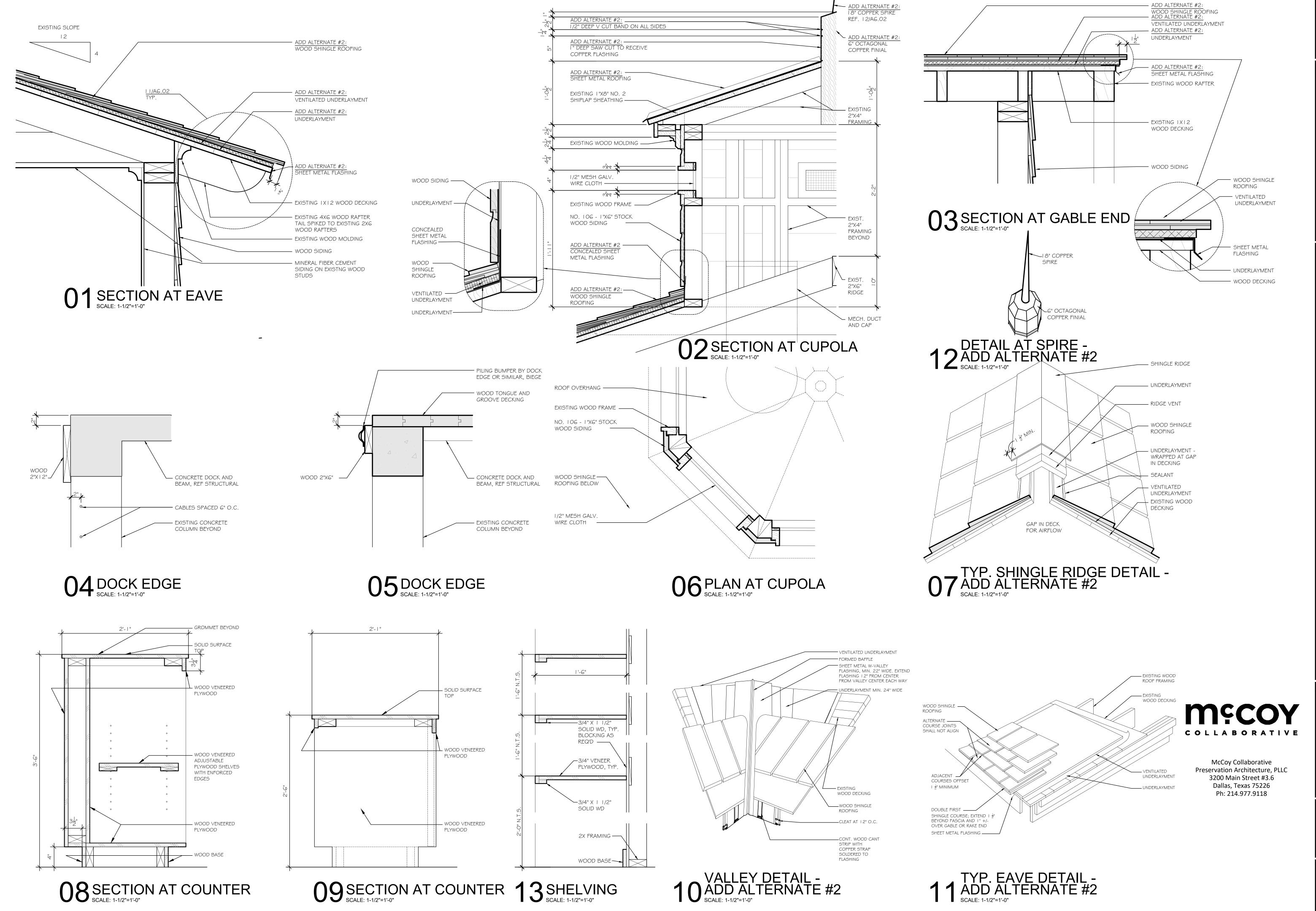
HUNTSV REPAIRS TO (

A6.01

122865 - A601.dwg

09 WINDOW SILL SCALE: 3"=1'-0"

10 EXTERIOR DOOR SILL







HUNTSVILLE STATE PARK
REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

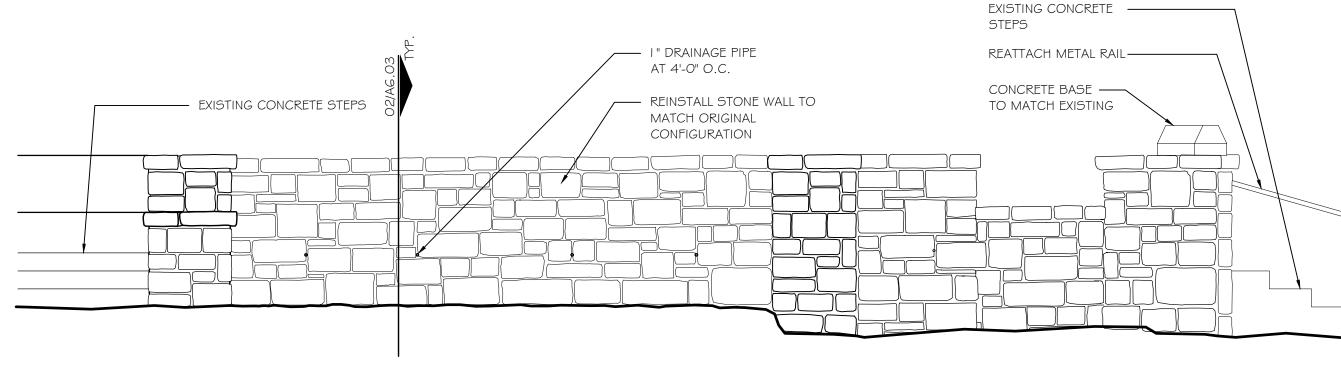
DATE: 08-28-2020
DESIGNED BY: GJ
DRAWN BY: GJ
REVIEWED BY: NM
REVISED:
REVISED:

SHEET TITLE
DETAILS

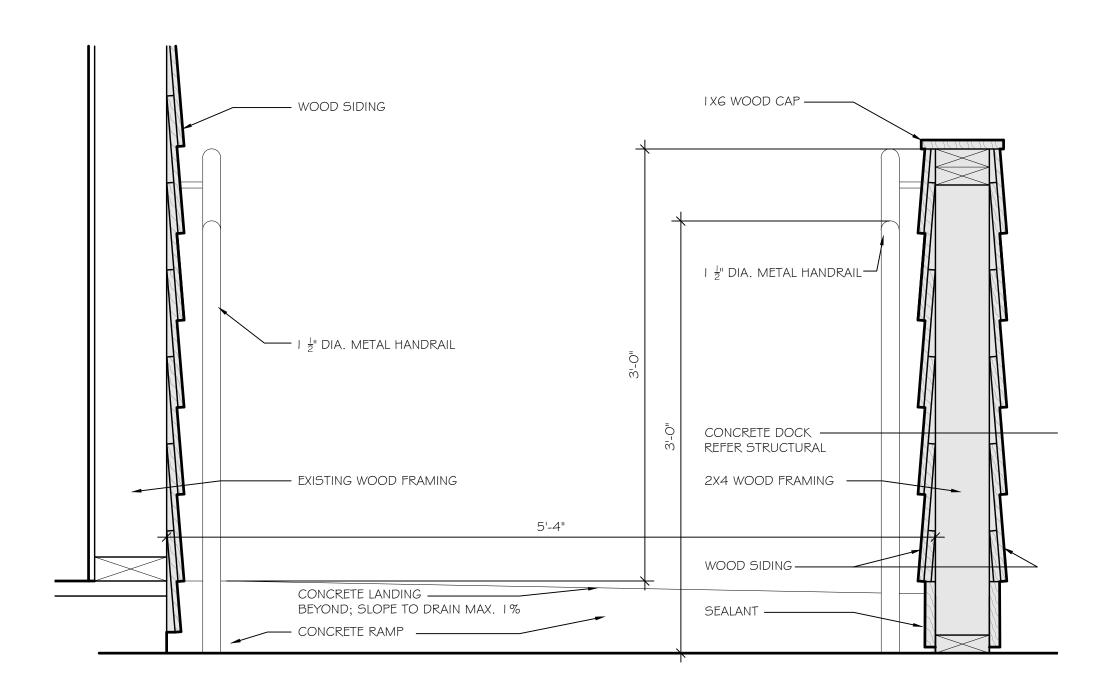
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122865 - A602.dwg

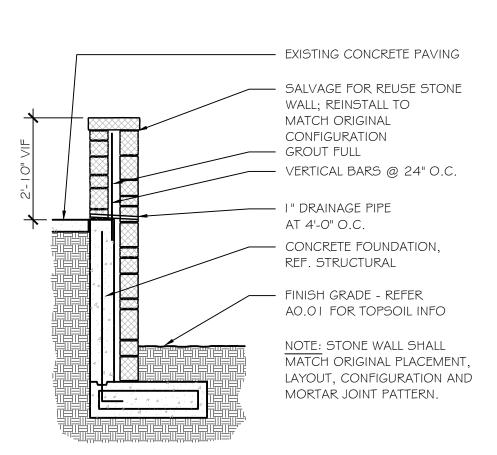
# 01 ENLARGED PLAN RETAINING WALL SCALE: 3/8"=1'-0"



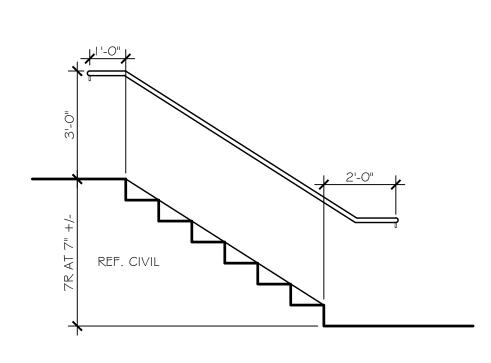
# **Q4** RETAINING WALL ELEVATION SCALE: 3/8"=1'-0"



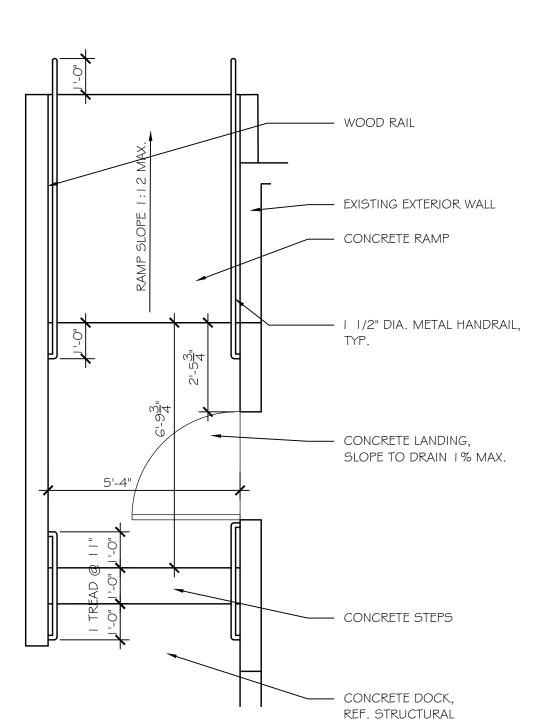
**07** SECTION AT LANDING SCALE: 1 1/2"=1'-0"

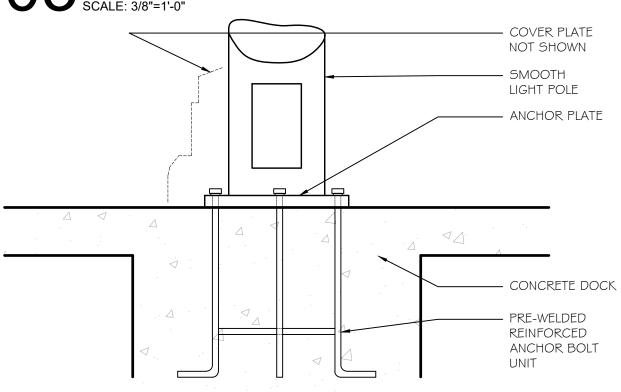


# 02 WALL SECTION SCALE: 3/8"=1'-0"



05 SECTION AT STEPS SCALE: 3/8"=1'-0"





**M**cCOY

McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118

SHEET TITLE

DETAILS

DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ

REVIEWED BY: NM

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VILLE S CCC BU BOATHC

PARKS &

**WILDLIFE** 

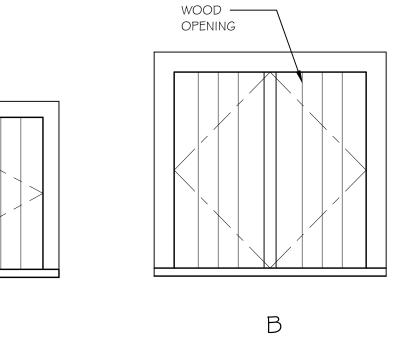
A6.03

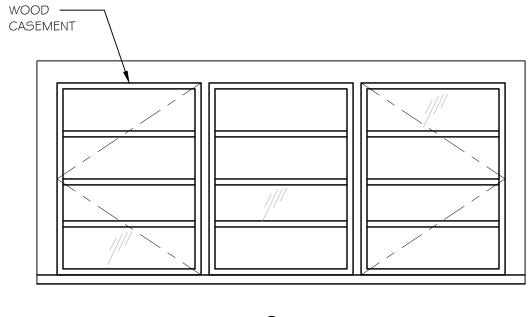
122865 - A603.dwg

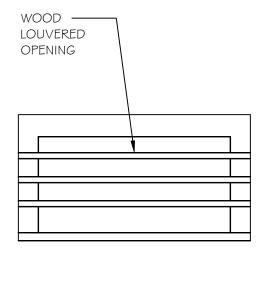
# 05 FINISH SCHEDULE SCALE: N.T.S.

ROOM		FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		WOOD MOLDING	ı	CASEWORK
NUMBER	ROOM NAME	MAT'L	FINISH	HMAT'L	FINISH	MAT'L	FINISH	H MAT'L	FINISH	I MAT'L	FINISH	I MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	I MAT'L
101	SALES AREA	WOOD	P-4	WOOD	P-5	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	EXIST. WOOD	P-5	WOOD
102	WORK ROOM	WOOD	P-4	WOOD	P-5	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	MIN. FIBER CEMENT	P-3	EXIST. WOOD	P-5	WOOD
								MIN. FIBER CEMENT										
103	WORKSHOP	WOOD / CONC	P-4	_	_	EXPOSED FRAMING	_	/ EXPOSED FRAMING	P-3 / -	EXPOSED FRAMING	_	EXPOSED FRAMING	_	EXIST. EXPOSED	_			EXISTING WOOD
104	BOAT SLIPS	WOOD	P-4	-	-	EXPOSED FRAMING	_	EXPOSED FRAMING	_	EXPOSED FRAMING	_	EXPOSED FRAMING	_	EXIST. EXPOSED	-			
105	STORAGE ROOM	WOOD	P-4	WOOD	P-5	MIN. FIBER CEMENT	P-3	EXPOSED FRAMING	_	EXPOSED FRAMING	_	MIN. FIBER CEMENT	P-3	EXIST. EXPOSED	-			WOOD

# 04 WINDOW TYPES SCALE: NTS







03	WINDOW SCHEDULE SCALE: N.T.S.
UU	SCALE: N.T.S.

ID	EXISTING	SIZE		VV	INDOW		I IV (IVIL	JILL		DETAILS		VEVNOTEC
ID	LAISTING	SIZL	TYPE	OPERATION	MATERIAL	GLASS	MATERIAL	MATERIAL	HEAD	JAMB	SILL	KEYNOTES
W- I	Y	5-10" X 3'-2"	Α	COUNTER	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-2	Y	4'-0" X 4'-1"	В	CASEMENT	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-3		9'-4" X 4'-0"	С	CASEMENT	WOOD	TEMPERED	WOOD	WOOD	01/A6.01	05/A6.01	09/A6.01	
W-4		4'-0" X 2'-0"	D	FIXED	WOOD	-	WOOD	WOOD	04/A6.01	-	08/A6.01	
W-5	Y	4'-0" X 2'-0"	D	FIXED	WOOD	-	WOOD	WOOD	J	-	-	В
W-6	Y	4'-0" X 2'-0"	D	FIXED	WOOD	-	WOOD	WOOD	-	-	-	В

		-										
ID	EXISTING	SIZE		WI	NDOW		FRAME	SILL		DETAILS		KEYNOTES
IU	LXISTING	SIZL	TYPE	OPERATION	MATERIAL	GLASS	MATERIAL	MATERIAL	HEAD	JAMB	SILL	KLINUILS
W- I	Y	5-10" X 3'-2"	Α	COUNTER	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-2	Y	4'-0" X 4'-1"	В	CASEMENT	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-3		9'-4" X 4'-0"	С	CASEMENT	WOOD	TEMPERED	WOOD	WOOD	01/A6.01	05/A6.01	09/A6.01	
W-4		4'-0" X 2'-0"	D	FIXED	WOOD	-	WOOD	WOOD	04/A6.01	_	08/A6.01	
W-5	Y	4'-0" X 2'-0"	D	FIXED	WOOD	-	WOOD	WOOD	-	-	-	В
W/ C		41 OII V 21 OII	D	FIVED	WOOD		WOOD	WOOD				D

02 DOOR	TYPES
SCALE: NTS	

WOOD ——— COUNTER

TYPE

IOIA B

102 D

103A C

103B (S)

104 E

104A

104B

WOOD DOOR —

103 (EX'G)

101 A 3'-0" X 6'-8" X 2 1/4"

104C (EX'G) 3'-0" X 6'-8" X 2 1/4"

01 DOOR SCHEDULE

OPENING SIZE

3'-0" X 6'-8" X 2 1/4"

10'-0" X 8'-0" X 2 1/4"

PR 3'-0" X 6'-8" X 2 1/4"

PR 3'-0" X 6'-8" X I 3/4"

3'-0" X 6'-8" X 2 1/4"

8'-8" X 7'-4"

8'-8" X 7'-4"

11'-6" X 7'-4"

WOOD DOOR —

GLASS LIGHT-

02	SCALE: N	JR IYF	<sup>2</sup> E5							
ID	EXISTING	SIZE		WII	NDOW		FRAME	SILL		DETAILS
IU	LXISTING	SIZL	TYPE	OPERATION	MATERIAL	GLASS	MATERIAL	MATERIAL	HEAD	JAMB

EXISTING MATERIAL FINISH GLAZING

WOOD STAIN

WOOD STAIN

WOOD STAIN

WOOD STAIN

WOOD STAIN

WOOD STAIN

METAL MFR

WOOD STAIN

MFR

MFR

METAL

METAL

LIGHT

HALF

ID	EXISTING	SIZE		WI	NDOW		FRAME	SILL		DETAILS		KEYNOTES
ID	LXISTING	SIZL	TYPE	OPERATION	MATERIAL	GLASS	MATERIAL	MATERIAL	HEAD	JAMB	SILL	KLINOILS
W-1	Y	5-10" X 3'-2"	Α	COUNTER	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-2	Y	4'-0" X 4'-1"	В	CASEMENT	WOOD	-	WOOD	WOOD	-	-	-	A, C
W-3		9'-4" X 4'-0"	С	CASEMENT	WOOD	TEMPERED	WOOD	WOOD	01/A6.01	05/A6.01	09/A6.01	

02 DOOR TYPES SCALE: NTS
--------------------------

02 DOOR TYPES
---------------

2X6	WOOD TOP		
٨	R	n	

THRESHOLD

WOOD

WOOD

WOOD

WOOD

WOOD

WOOD

WOOD

HEAD

06/A6.01

03/A6.01

03/A6.01

03/A6.01

EXISTING MATERIAL FINISH

WOOD

WOOD

WOOD

WOOD

WOOD

WOOD

METAL

METAL

METAL

WOOD

WOOD DOOR -

STAIN

STAIN

STAIN

STAIN

STAIN

STAIN

PRE-FIN

PRE-FIN

PRE-FIN

STAIN

DETAILS

**JAMB** 

06/A6.01 SIM.

07/A6.01

07/A6.01

07/A6.01

02/A6.01 02/A6.01 SIM.

06/A6.01 06/A6.01 SIM.

SET

01

02

03

07

04

05

06

06

06

08

KEYNOTES

4

4

1, 2, 3, 4

1,2

1, 2, 4

SILL

10/A6.01

WOOD LOUVER————————————————————————————————————	OVERHEAD COILING DOOR	

KEYNOTES

FINISH

P-6 P-6

**GENERAL NOTES WINDOWS:** 

**GENERAL NOTES DOORS:** 

I. FIELD VERIFY EXISTING DOOR SIZES.

3. DOOR RESTORATION SCOPE TO INCLUDE:

SMALL HOLES, DENTS AND OTHER

SHALL MATCH ORIGINAL SPECIES.

SHALL MATCH ORIGINAL SPECIES.

COMPLETION OF RESTORATION.

DOOR RESTORATION KEYNOTES

2. PLANE DOOR TO ACHIEVE PROPER FIT.

F. REPLACE THRESHOLD.

SCHEDULED.

REPAIR SYSTEM

2. CLEAN EXISTING AND SALVAGED DOORS, FRAMES

A. RESTORE DOORS 103, 103B AND 104C.

PERFORM MINOR REPAIRS SUCH AS THE REMOVAL OF UNUSED ANCHORS, NAILS OR

B. CHEMICALLY STRIP PAINT TO BARE WOOD.

OTHER EXTRANEOUS DEVICES, PATCHING OF

IMPERFECTIONS IN THE FINISHED SURFACE.

REFLACE WHOLE ELEMENTS, PERFORM DUTCHMEN REPAIRS AND EPOXY REPAIRS AS SCHEDULED.

D. RESTORE DOORS, BOTH SIDES: REMOVE LOOSE AND DETERIORATED PAINT. PERFORM DUTCHMAN REPAIRS AND EPOXY REPAIRS AS REQUIRED.

REPLACEMENT WOOD AND DUTCHMAN REPAIRS

C. REMOVE AND REPLACE WEATHERSTRIPPING.

REPLACEMENT WOOD AND DUTCHMAN REPAIRS

G. DOORS SHALL BE FULLY FUNCTIONING UPON

H. RESTORE DOOR FRAMES AND CASING WITH

OTHER CARPENTRY RESTORATION WORK.

4. PREPARE SURFACES FOR TRANSPARENT FINISH AS

I. REPAIR LOST, CRACKED, SPLIT OR DETERIORATED WOOD WITH WOOD DUTCHMAN OR WITH EPOXY

REPLACE STILE, OR RAIL ELEMENT TO MATCH

4. REPALCE EXISTING WOOD FRAME WITH DUTCHMAN AT PREVIOUS HING AND LATCH LOCATIONS.

E. REPLACE HARDWARE TO MATCH EXISTING.

AND HARDWARE. REPLACE HARDWARE AS INDICATED.

I. FIELD VERIFY EXISTING WINDOW SIZES. 2. WINDOW RESTORATION SCOPE TO INCLUDE: A. RESTORE WINDOWS W-I, W-2, W-5 AND W-6. B. REMOVE AND REPLACE WEATHERSTRIPPING. C. CHEMICALLY STRIP PAINT TO BARE WOOD. PERFORM MINOR REPAIRS SUCH AS THE REMOVAL OF UNUSED ANCHORS, NAILS OR OTHER EXTRANEOUS DEVICES, PATCHING OF SMALL HOLES, DENTS AND OTHER IMPERFECTIONS IN THE FINISHED SURFACE. REFLACE WHOLE ELEMENTS, PERFORM DUTCHMEN REPAIRS AND EPOXY REPAIRS AS SCHEDULED. REPLACEMENT WOOD AND DUTCHMAN REPAIRS SHALL MATCH ORIGINAL SPECIES D. RESTORE EXTERIOR AND INTERIOR WINDOW FRAME AND SILL WITH OTHER CARPENTRY

RESTORATION WORK. 3. PREPARE SURFACES FOR TRANSPARENT FINISH AS SCHEDULED.

# WOOD WINDOW RESTORATION KEYNOTES

A. DUTCHMAN REPAIR OF ELEMENT

B. EPOXY REPAIR OF ELEMENT

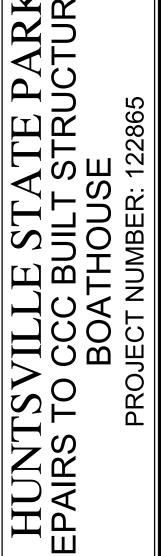
C. ADD SHUTTER LOCK



McCoy Collaborative Preservation Architecture, PLLC 3200 Main Street #3.6 Dallas, Texas 75226 Ph: 214.977.9118







DATE: 08-28-2020 DESIGNED BY: GJ DRAWN BY: GJ REVIEWED BY: GJ REVISED:

REVISED: REVISED:

**SHEET TITLE** SCHEDULES

SHEET NUMBER

A8.01 122865 - A801.dwg

ABOVE FINISHED FLOOR

BACKDRAFT DAMPER

BELOW FINISHED FLOOR

BACKFLOW PREVENTER

BRAKE HORSEPOWER

CIRCUIT BREAKER

CONDENSATE DRAIN

**CUBIC FEET PER MINUTE** 

CHILLED WATER RETURN

CHILLED WATER SUPPLY

CONDENSER WATER RETURN

CONDENSER WATER SUPPLY

EXISTING TO BE DEMOLISHED

ENTERING AIR TEMPERATURE

EXTERNAL STATIC PRESSURE

ENTERING WATER TEMPERATURE

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

FUSED DISCONNECT SWITCH

COMBINATION FIRE SMOKE DAMPER

**GROUND FAULT INTERRUPTER** 

**GALLONS PER MINUTE** 

REFRIGERANT HOT GAS

HEATING HOT WATER RETURN

HEATING HOT WATER SUPPLY

HORSEPOWER

HOT WATER SUPPLY

HOT WATER RETURN

IN COUNTER

DEGREES FAHRENHEI

FLOOR CLEANOUT

FLOOR DRAIN

FIRE DAMPER

FLOOR SINK

GROUND

FIRE LINE

FCO

FDS

DOMESTIC COLD WATER

DOUBLE CLEANOUT

EXHAUST AIR

EMPTY CONDUIT

EXISTING TO REMAIN

CONDUIT

BOTTOM OF DUCT

EXISTING JUNCTION BOX WITH BLANK PLATE

# **ABBREVIATIONS**

# SYMBOL DESCRIPTION

UNLESS NOTED OTHERWISE UNIVERSAL SERIAL BUS. PROVIDE NEMA 5-20R DUPLEX RECEPTACLE WITH (2) USB TYPE 'A' PORTS RATED FOR 5.0 AMPS. PROVIDE HUBBELL USB20A5W OR EQUAL. UNIVERSAL SERIAL BUS. PROVIDE NEMA 5-20R

DUPLEX RECEPTACLE WITH (1) USB TYPE 'A' PORT & (1) USB TYPE 'C' PORT RATED FOR 5.0 AMPS. PROVIDE HUBBELL USB20AC5W OR VENT

VARIABLE FREQUENCY DRIVE VFD VERIFY IN FIELD VTR VENT THROUGH ROOF

WALL MOUNTED WATER CLOSET WCO WALL CLEANOUT WEATHER PROOF

TEXAS

PARKS &

WILDLIFE

1002

DATE: 08-28-2020 DESIGNED BY: JG DRAWN BY: AV REVIEWED BY: JG REVISED:

REVISED:

**REVISED:** 

**SHEET TITLE** SYMBOLS AND **ABBREVIATIONS** 

SHEET NUMBER ME1.0 -MEPPLANS.dwg

**ADD ALTERNATE #1** SCALE: NOT TO SCALE

SURGE PROTECTION DEVICE

TRANSIENT VOLTAGE SURGE SUPPRESSOR

TRAP PRIMER

UNDERFLOOR

UNDERGROUND

URINAL

TEMPERED WATER



TIMECLOCK SWITCH.

MODEL SHALL BE INTERMATIC ST700W OR EQUAL

WALL MOUNTED VOLUME CONTROL (P.A.)

FS EMERGENCY LIGHTING FIXTURE. MODEL SHALL BE <u>DUAL-LITE #LZ2I</u> UNO ON FSD EXTERIOR EMERGENCY LIGHTING FIXTURE. MODEL SHALL BE <u>DUAL-LITE #PGN</u> FIRE ALARM SYMBOLS GND SYMBOL DESCRIPTION THIN LINE WEIGHTS REPRESENT EXISTING WORK BOLD LINE WEIGHTS REPRESENT NEW WORK FM 200 ABORT SWITCH MANUAL FM 200 RELEASE PULL STATION DOOR HOLDER FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM SYSTEM FLOW SWITCH TS FIRE ALARM TAMPER SWITCH GENERATOR REMOTE ANNUNCIATOR PANEL ADA APPROVED FIRE ALARM HORN. MOUNT @ 80" AFF. ADA APPROVED FIRE ALARM HORN. CEILING MOUNTED. ADA APPROVED AUDIO/VISUAL FIRE ALARM SIGNALING DEVICE. MOUNT @ 80' ADA APPROVED AUDIO/VISUAL FIRE ALARM SIGNALING DEVICE. CEILING ADA APPROVED STROBE ONLY FIRE ALARM DEVICE. MOUNT @ 80" AFF ADA APPROVED STROBE ONLY FIRE ALARM DEVICE. CEILING MOUNTED ADA APPROVED FIRE ALARM PULLSTATION DEVICE UNDERFLOOR SMOKE DETECTOR DUCT MOUNTED SMOKE DETECTOR

CARD READER

DOOR CONTACT

KEY PAD

MAG-LOCK

**GENERATOR** 

SHUNT TRIP

TRANSFORMER

120V/208Y OR 120/240V ELECTRICAL PANEL

GROUND BUS. PROVIDE 1/4" X 4" X 12" COPPER GROUND BUS ON ISOLATORS

277V/480Y ELECTRICAL PANEL

VIA LIGHTING CONTACTOR

EXIT SIGN CHEVRON

REMOTE PILOT LIGHT

UNDERFLOOR HEAT DETECTOR

HEAT DETECTOR

FLAME DETECTOR

FIRE ALARM SPEAKER

a — SWITCH DESIGNATION

LIGHT FIXTURE TYPE

HATCH REPRESENTS EMERGENCY FIXTURE

2' X 4' LIGHT FIXTURE. REFERENCE LIGHT FIXTURE SCHEDULE.

2' X 2' LIGHT FIXTURE. REFERENCE LIGHT FIXTURE SCHEDULE.

UTILITY STRIP. REFERENCE LIGHT FIXTURE SCHEDULE.

WALL WASHER. REFERENCE LIGHT FIXTURE SCHEDULE.

UNDER CABINET LIGHT FIXTURE. REFERENCE LIGHT FIXTURE SCHEDULE

POLE MTD. SITE LIGHT FIXTURE REFERENCE LIGHT FIXTURE SCHEDULE.

DOUBLE FACE WALL MOUNTED EXIT SIGN. MODEL SHALL BE <u>DUAL-LITE</u>

SINGLE FACE EXIT SIGN SHADED AREA INDICATES ILLUMINATED FACE. MODEL

DOUBLE FACE EXIT SIGN SHADED AREA INDICATES ILLUMINATED FACE. MODEL

SINGLE FACE WALL MOUNTED EXIT SIGN. MODEL SHALL BE  $\underline{\text{DUAL-LITE \#LXURWEI}}$ 

DOWNLIGHT. REFERENCE LIGHT FIXTURE SCHEDULE.

SCONCE. REFERENCE LIGHT FIXTURE SCHEDULE.

PENDANT. REFERENCE LIGHT FIXTURE SCHEDULE.

WALL PACK. REFERENCE LIGHT FIXTURE SCHEDULE.

SHALL BE <u>DUAL-LITE #LXURWEI</u> UNO ON PLANS.

SHALL BE <u>DUAL-LITE #LXURWEI</u> UNO ON PLANS.

CLOCK

METER

ISOLATED GROUND KITCHEN EXHAUST KILOWATT MAKE-UP AIR MOUNTED NEW NOT IN CONTRACT NEMA 3R OUTSIDE AIR OPPOSED BLADE DAMPER OVERFLOW CONDENSATE DRAIN OVERCURRENT PROTECTIVE DEVICE OCPD OVERFLOW ROOF DRAIN OWNER FURNISHED, CONTRACTOR INSTALLED PARALLEL BLADE DAMPER POUNDS PER SQUARE INCH EXISTING TO BE RELOCATED RETURN AIR **ROOF DRAIN** REFRIGERANT LIQUID REVERSE OSMOSIS REFRIGERANT SUCTION SINK SUPPLY AIR SANITARY SEWER STORM DRAIN SIMILAR

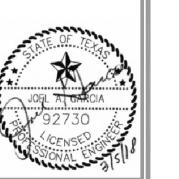
**m**coy COLLABORATIVE

4819 STATE HIGHWAY 121, SUITE 12, THE COLONY, TX 75056

972.323.7300 | WWW.NOVA-ENGINEERING.NET

PARKS 8 WILDLIFE

100% CD **DOCUMENT** 



DATE: 03-05-2019 DESIGNED BY: XX DRAWN BY: xx REVIEWED BY: XX

**REVISED**: **REVSED**:

REVSED

FLOOR PLAN -MECHANICAL

SHEET NUMBER

M2.1-MPLANS.dwg

02 EXHAUST FAN DETAIL - ADD ALTERNATE #1 SCALE: NOT TO SCALE

AIR [	DEVICE	SCHE	DULE	- ADD	ALTE	RNATE #	‡1					
MARK	DUTY	TYPE	FACE SIZE	NECK SIZE	CFM	MAX. T.P. (" W.G)	MAX. N.C.	MFG.	MODEL NO.	REMARKS		
А	RETURN/EXH	CEILING	24"X24"	22"X22"	AS NOTED	0.15	25	TITUS	50F - 1"	1,2		
В	RETURN/EXH	CEILING	PER NECK	AS NOTED	AS NOTED	0.15	25	TITUS	350FS	1,2		
1. AIR DEVICE SHALL BE FURNISHED WHITE UNLESS SPECIFIED OTHERWISE BY THE ARCHITECT.												

0.2 120/1 Ø

			ITE UNLESS SP BORDERS SUI					WILL BE INST	ALLED.		
VEN <sup>-</sup>	T FAN	SCHE	DULE	- ADI	) ALTE	ERNA	TE #1	1			
MARK DRIVE CFM (I) MO) PRIM ELECTRICAL MANUFACTURER MODEL NO. REMARKS											
WAN	DRIVE	CITIVI	(" WC)	RPM	WATT	BHP	VOLTS		IOFACTORER	MODEL NO.	KLIVIARKS

PLUMB	ING FIXTURE SCHEDULE - ADD ALTERN	ATE 7	<b>#</b> 1		
FIXTURE	SPECIFICATION	CW	HW	SAN/GW	VENT
<u>HB-1</u>	WATTS DRAINAGE HY-420 NON-FREEZE KEY OPERATED WALL HYDRANT WITH CHROME PLATED FACE, INTEGRAL VACUUM BREAKER, ¾" HOSE CONNECTION, ¾" FEMALE X 1" MALE PIPE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, BRONZE WALL CASING, AND LOOSE KEY. COMPLIES WITH ASSE 1019-2004, UPC/IAMPO LISTED. MAX. OPERATING PRESSURE 125 PSI.	3/4"	_	-	1
ALL FIXTURES RE	OUIRING 'P' TRAPS, TUBING WASTE TO WALL, AND TAILPIECES SHALL BE 17 GALIGE CHROME	PLATED M	CGUIRE OR	FOLIAL MOLINTING	TO.

GREENHECK

CSP-A1750 1,2,3

ALL FIXTURES REQUIRING 'P' TRAPS, TUBING WASTE TO WALL, AND TAILPIECES SHALL BE 17 GAUGE CHROME PLATED, MCGUIRE OR EQUAL. MOUNTING TO COMPLY WITH ADA & TAS. LOCATE FLUSH VALVE ON WIDE SIDE OF STALL.

NOTE: ABOVE SIZES ARE MINIMUM UNLESS OTHERWISE NOTED ON DWG.

1000 0.50 1,130

. PROVIDE FACTORY FURNISHED GRAVITY BACKDRAFT DAMPER.

3. CONTROL SHALL BE INTERLOCKED WITH SWITCH ON WALL.

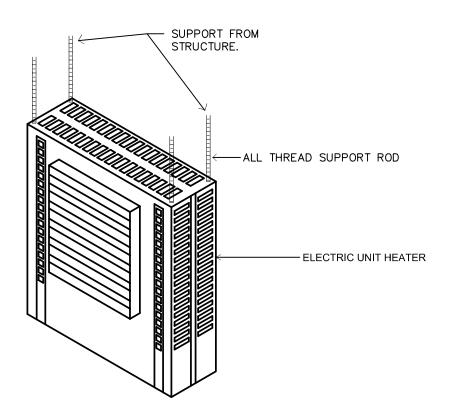
EF-1 DIRECT

2. SPEED CONTROLLER.

1. PITCH ALL DRAINAGE PIPING AT ¼" FOOT MINIMUM UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND DRAINAGE PIPING SHALL BE MINIMUM OF 2" IN SIZE & ¼" PER FT. SLOPE.
3. PROVIDE TRAP PRIMER UNITS FOR ALL FLOOR DRAINS WITHOUT INDIRECT WASTE PIPING.

UNIT HE	EATER SC	HEDULE	- ADD ALTER	RNATE #1		
MARK	SERVES	KW	VOLTS/PHASE	MANUFACTURER	MODEL NO.	REMARKS
<u>UH-1</u>		5	240/1ø	QMARK	MUH	1,2,3
2. INTEGRAL THE	HEAT CONTROL. RMOSTAT. ITED MOUNTING BRACK	ET KIT.				

	HEAT T	RACE S	CHEC	ULE - ADI	O ALTER	RNATE #1							
MARK SERVES W/FT DISTANCE VOLTS/ PHASE MANUFACTURER REI													
	<u>HT-1</u>	HOT WATER	5	100	120/1Ø	DELTA-THERM	1						
	1. VERIFY EXACT LENGTH OF PIPE PRIOR TO ORDERING AND INSTALLING NEW HEAT TRACE.												





**m**ccoy COLLABORATIVE

DATE: 08-28-2020 DESIGNED BY: XXX DRAWN BY: XXX

REVIEWED BY:

REVISED:

REVISED:

REVISED:

HUNTSVILLE
REPAIRS TO CCC B
BOATH
PROJECT NUI

SHEET TITLE SCHEDULES AND DETAILS -MECHANICAL

-MPLANS.dwg



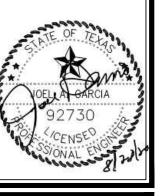






- REMOVE RECEPTACLES, SWITCHES, LIGHTS, JUNCTION BOXES, AND DISCONNECTS CONTAINED WITHIN OR MOUNTED TO WALLS OR CEILINGS BEING DEMOLISHED.
- REMOVE ASSOCIATED ELECTRICAL DEVICES FROM MECHANICAL
- REMOVE CONDUIT AND WIRE ASSOCIATED WITH THE DEMOLITION OF ELECTRICAL DEVICES AND LIGHTING BACK TO PANEL.





MCCOY COLLABORATIVE

DATE: 08-28-2020
DESIGNED BY: JG
DRAWN BY: AV
REVIEWED BY: JG
REVISED: REVISED:

REVISED:

DEMOLITION FLOOR PLAN - ELECTRICAL

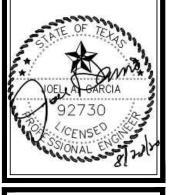


SHEET NUMBER ED2.1

-EPLANS.dwg

- REMOVE RECEPTACLES, SWITCHES, LIGHTS, JUNCTION BOXES, AND DISCONNECTS CONTAINED WITHIN OR MOUNTED TO WALLS OR CEILINGS BEING DEMOLISHED.
- REMOVE ASSOCIATED ELECTRICAL DEVICES FROM MECHANICAL
- AND/OR PLUMBING SYSTEMS WHICH ARE BEING DEMOLISHED.
- REMOVE CONDUIT AND WIRE ASSOCIATED WITH THE DEMOLITION OF ELECTRICAL DEVICES AND LIGHTING BACK TO PANEL.





HUNTSVILLE STATE PARK
REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE
PROJECT NUMBER: 122865

MCCOY COLLABORATIVE

DATE: 08-28-2020
DESIGNED BY: JG
DRAWN BY: AV
REVIEWED BY: JG
REVISED: REVISED:

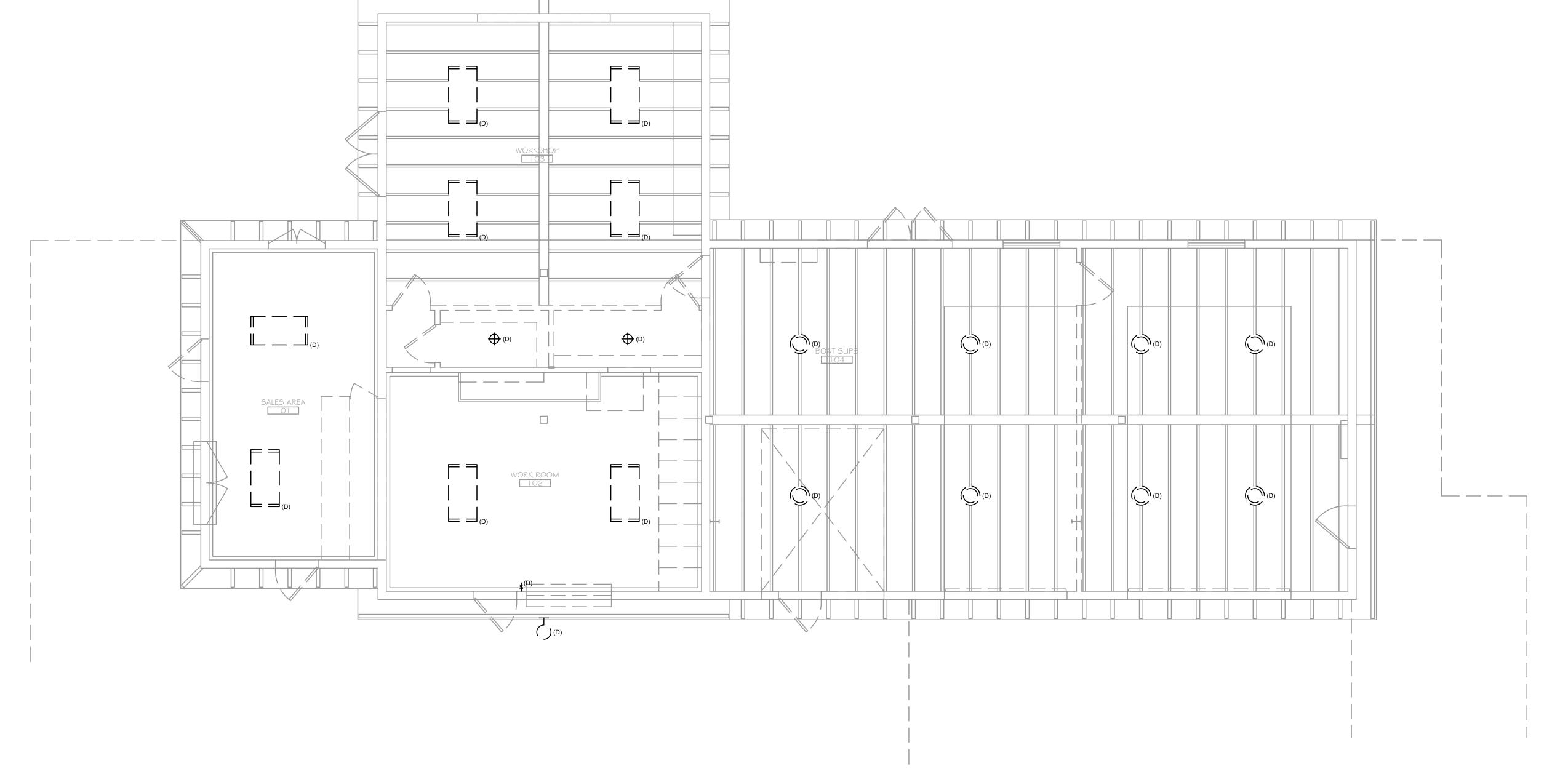
REVISED:

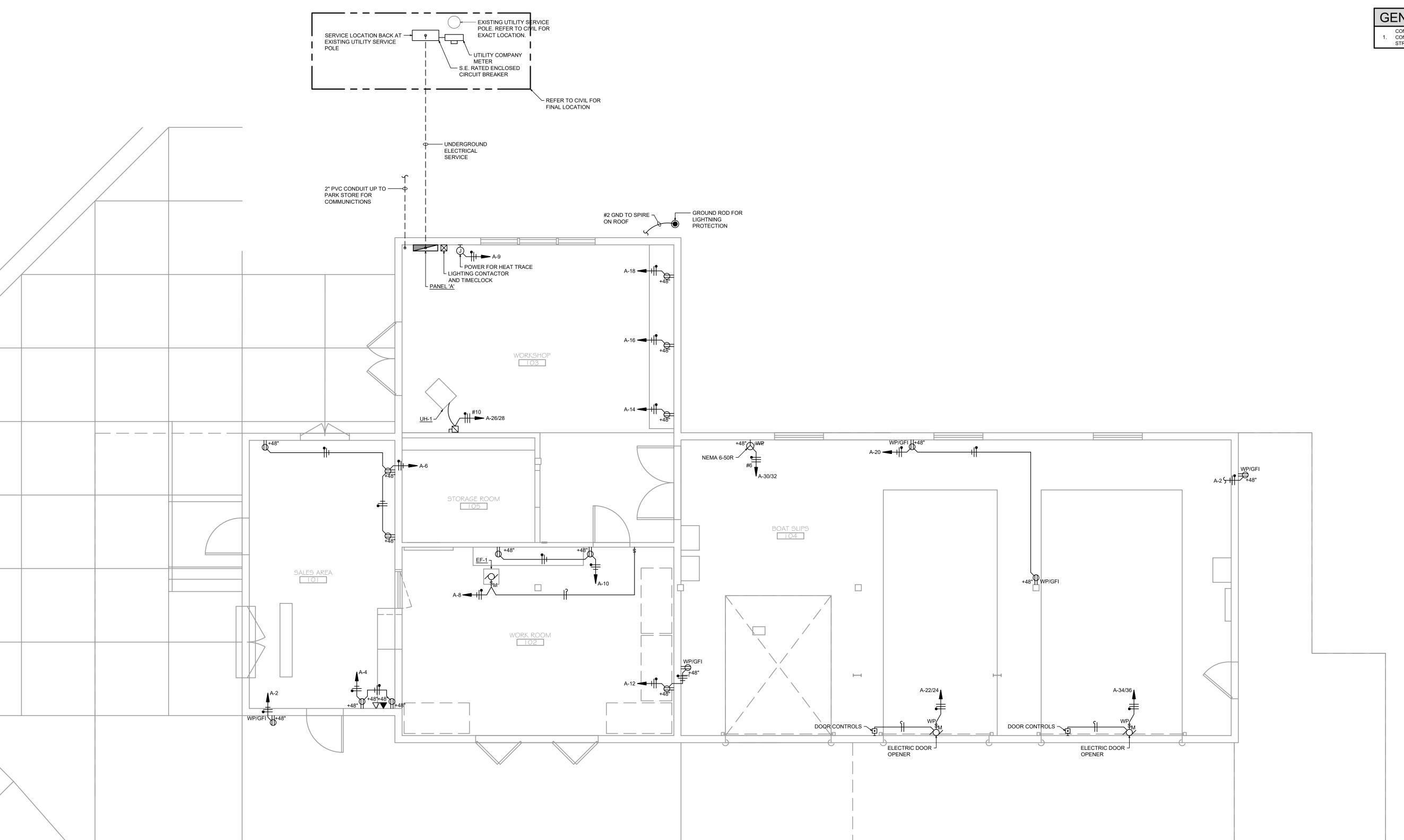
DEMOLITION FLOOR PLAN - LIGHTING

-EPLANS.dwg

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SHEET NUMBER ED2.2



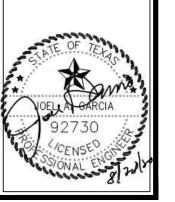


GENERAL NOTES:

CONDUIT SHALL BE ROUTED IN WALLS AND ABOVE CEILINGS. WHERE

1. CONDUITS ARE EXPOSED, ROUT CONDUIT ABOVE EXPOSED STRUCTURE.





HUNTSVILLE STATE PARK
REPAIRS TO CCC BUILT STRUCTURES
BOATHOUSE

MCCOY COLLABORATIVE DATE: 08-28-2020
DESIGNED BY: JG
DRAWN BY: AV
REVIEWED BY: JG
REVISED:
REVISED:

SHEET TIT

SHEET NUMBER

E2.1

-EPLANS.dwg

SHEET TIT FLOOR PLA ELECTRICA

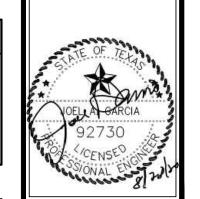
REVISED:



LOCATED AT END OF DOCK. — REFER TO ARCHITECTURAL

PLANS FOR EXACT LOCATION.





**GENERAL NOTES:** CIRCUIT EXIT SIGNS AND EMERGENCY EGRESS FIXTURES TO NEAREST NORMAL LIGHTING CIRCUIT SERVING THIS AREA ON A

UNLESS NOTED OTHERWISE ON PLANS.

NON-SWITCHED HOT LEG. HATCHED LIGHT FIXTURES INDICATE EMERGENCY CIRCUIT OR BATTERY BACK-UP. EMERGENCY LIGHT FIXTURES SHALL BE WIRED TO REMAIN ON AT ALL TIMES AND SERVE AS NIGHT LIGHTS WHEN SURROUNDING FIXTURES ARE SWITCHED OFF

# KEYED NOTES BY SYMBOL:

ALTERNATE NO. 1.
PROVIDE POWER TO LED POLE LIGHTS ON SITE. REFERENCE ARCHITECTURAL PLANS FOR EXACT LOCATION. CIRCUIT TO A-1 THRU LIGHTING CONTACTOR.

DATE: 08-28-2020 DESIGNED BY: JG **M¢COY** DRAWN BY: AV REVIEWED BY: JG REVISED: COLLABORATIVE

REVISED: REVISED:

-EPLANS.dwg

SHEET TITLE FLOOR PLAN -



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01 FLOOR PLAN - LIGHTING - ADD ALTERNATE #1

1-0E

- LOCATED AT END OF DOCK.

REFER TO ARCHITECTURAL

PLANS FOR EXACT LOCATION.

1-0E

SHEET NUMBER E2.2

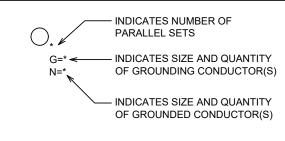
PANEL [A] SCH	IEC	ULE	E - AD	D ALTI	ERNA	TE #1														
DESCRIPTION	_	AMP	LIGHT	RECEP	MOTOR	HEAT	КІТСН	COMP	OTHER	PHASE	OTHER	COMP	КІТСН	HEAT	MOTOR	RECEP	LIGHT	Р	AMP	DESCRIPTION
SITE LIGHTING	1	20	140	0	0	0	0	0	0	1 A 2	0	0	0	0	0	400	0	1	20	(2) WP/GFI RECEPTACLES
LIGHTING	1	20	378	0	0	0	0	0	0	3 B 4	0	0	0	0	0	400	0	1	20	(2) RECEPTACLES
LIGHTING	1	20	126	0	0	0	0	0	0	5 A 6	0	0	0	0	0	600	0	1	20	(3) RECEPTACLES
LIGHTING	1	20	252	0	0	0	0	0	0	7 B 8	0	0	0	0	696	0	0	1	20	EF-1
HEAT TRACE	1	20	0	0	0	500	0	0	0	9 A 10	0	0	0	0	0	400	0	1	20	(2) RECEPTACLES
SPARE	1	20	0	0	0	0	0	0	0	11 B 12	0	0	0	0	0	400	0	1	20	(2) RECEPTACLES
SPARE	1	20	0	0	0	0	0	0	0	13 A 14	1920	0	0	0	0	0	0	1	20	WORKSHOP RECEPTACLE
SPARE	1	20	0	0	0	0	0	0	0	15 B 16	1920	0	0	0	0	0	0	1	20	WORKSHOP RECEPTACLE
SPARE	1	20	0	0	0	0	0	0	0	17 A 18	1920	0	0	0	0	0	0	1	20	WORKSHOP RECEPTACLE
SPARE	1	20	0	0	0	0	0	0	0	19 B 20	0	0	0	0	0	400	0	1	20	(2) RECEPTACLES
SPARE	1	20	0	0	0	0	0	0	0	21 A 22	0	0	0	0	1920	0	0	2	20	(ELECTRIC DOOR
SPARE	1	20	0	0	0	0	0	0	0	23 B 24	0	0	0	0	1920	0	0			(
SPARE	1	20	0	0	0	0	0	0	0	25 A 26	0	0	0	2500	0	0	0	2	30	(UH-1
SPARE	1	20	0	0	0	0	0	0	0	27 B 28	0	0	0	2500	0	0	0			(
SPARE	1	20	0	0	0	0	0	0	0	29 A 30	4800	0	0	0	0	0	0	2	50	(NEMA RECEPTACLE
			0	0	0	0	0	0	0	31 B 32	4800	0	0	0	0	0	0			(
			0	0	0	0	0	0	0	33 A 34	0	0	0	0	1920	0	0	2	20	(ELECTRIC DOOR
			0	0	0	0	0	0	0	35 B 36	0	0	0	0	1920	0	0			(
			0	0	0	0	0	0	0	37 A 38	0	0	0	0	0	0	0	1	20	SPARE
			0	0	0	0	0	0	0	39 B 40	0	0	0	0	0	0	0	1	20	SPARE
			0	0	0	0	0	0	0	41 A 42	0	0	0	0	0	0	0	1	20	SPARE
TOTALS			896	0	0	500	0	0	0		15360	0	0	5000	8376	2600	0			TOTALS
LOAD SUMMARY			CON KVA	CON AMP	C W/SF	DIV. FAC	DES KVA	DES AMP	D W/SF	NOTES: 1. MINIMUM	INITECDATE		NT DATING	JOB NM:	HUNTSVIL	LE STATE				SUMMARY
1. LIGHTING			0.9	3.7	0.9	1.25	1.1	4.7	1.1	22KAIC (240\	/).				PARK - BO	ATHOUSE	1ф	VOL	TAGE:	240
2. RECEPTACLES			2.6	10.8	2.6	1.00	2.6	10.8	2.6	2. PROVIDE I BUS.	FULL SIZE NI	EUTRAL ANI	D GROUND					MCI	B/MLO:	MLO
3. MOTORS			8.4	34.9	8.4	1.00	8.4	34.9	8.4					UPSTREAM	M O.C.P.D.				AMPS:	400
4. ELECTRIC HEAT			5.5	22.9	5.5	1.00	5.5	22.9	5.5								#	OF F	POLES:	42
5. KITCHEN EQUIPMENT			0.0	0.0	0.0	1.00	0.0	0.0	0.0	7				M	OUNT:	SURFACE				
6. COMPUTER EQUIPMENT			0.0	0.0	0.0	1.00	0.0	0.0	0.0	NOTE: CONTRACTOR TO		TOR TO			BY:					
7. OTHER			15.4	64.0	15.4	1.00	15.4	64.0	15.4	BALANCE PHASES				TIME:	2:19:55 PM					
8. SPARE CAPACITY			0.0			1.00	0.0	0.0	0.0	0.0 WITHIN +/- 10%		DATE:	8/26/2020							
TOTAL:			33	136	33		33	137	33	]				JOB #:	17176.00			ARE	A (SF):	1000

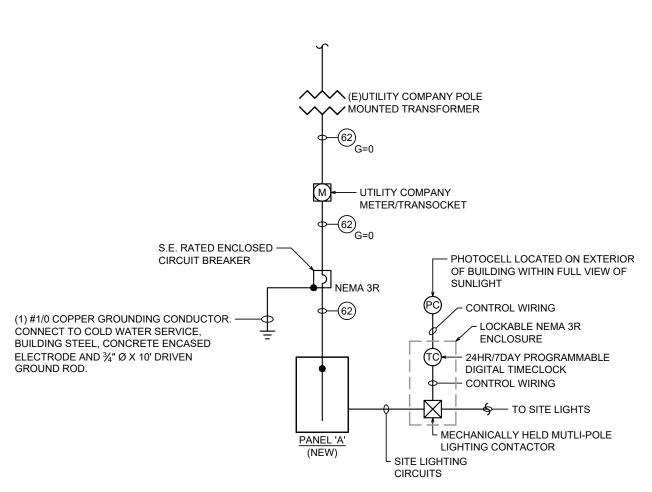
3 CONDUCTOR			COPPER CONDUCTORS WITH GROUND WIRE				4 CONDUCTOR		
CODE	WIRES	CONDUIT	SIZE	AMP	DEG.	LUGS	CODE	WIRES	CONDUI
45)	(3) #12 & (1) #12 G.	<u>3</u> " 4	#12	20	60°	MECH.	67	(4) #12 & (1) #12 G.	<u>3</u> " 4
46)	(3) #10 & (1) #10 G.	<u>3</u> " 4	#10	30	60°	MECH.	68	(4) #10 & (1) #10 G.	3 <sub>"</sub>
<b>(47)</b>	(3) #8 & (1) #10 G.	<u>3</u> 11 4	#8	40	60°	MECH.	69	(4) #8 & (1) #10 G.	1"
48)	(3) #6 & (1) #10 G.	1"	#6	55	60°	MECH.	70	(4) #6 & (1) #10 G.	1"
49	(3) #4 & (1) #8 G.	1 <sup>1</sup> / <sub>4</sub> "	#4	70	60°	MECH.	71)	(4) #4 & (1) #8 G.	1 <del>1</del> "
50	(3) #3 & (1) #8 G.	1 <sup>1</sup> / <sub>4</sub> "	#3	85	60°	MECH.	72	(4) #3 & (1) #8 G.	1 <del>1</del> "
(51)	(3) #2 & (1) #8 G.	1 <u>1</u> "	#2	95	60°	MECH.	73	(4) #2 & (1) #8 G.	1 <del>1</del> "
(52)	(3) #1 & (1) #6 G.	1 <sup>1</sup> / <sub>2</sub> "	#1	110	60°	COMP.	74)	(4) #1 & (1) #6 G.	2"
(53)	(3) #2 & (1) #6 G.	1 <u>1</u> "	#2	115	75°	COMP.	75)	(4) #2 & (1) #6 G.	1 <del>1</del> "
(54)	(3) #1 & (1) #6 G.	1 <u>1</u> "	#1	130	75°	COMP.	76)	(4) #1 & (1) #6 G.	2"
(55)	(3) #1/0 & (1) #6 G.	1 <sup>1</sup> / <sub>2</sub> "	#1/0	150	75°	COMP.	77	(4) #1/0 & (1) #6 G.	2"
(56)	(3) #2/0 & (1) #6 G.	2"	#2/0	175	75°	COMP.	78)	(4) #2/0 & (1) #6 G.	2"
(57)	(3) #3/0 & (1) #6 G.	2"	#3/0	200	75°	COMP.	79	(4) #3/0 & (1) #6 G.	2 <u>1</u> "
(58)	(3) #4/0 & (1) #4 G.	2"	#4/0	230	75°	COMP.	80	(4) #4/0 & (1) #4 G.	2 <del>1</del> "
(59)	(3) #250MCM & (1) #4 G.	2 <u>1</u> "	#250MCM	255	75°	COMP.	81)	(4) #250MCM & (1) #4 G.	3"
60	(3) #300MCM & (1) #4 G.	2 <u>1</u> "	#300MCM	285	75°	COMP.	82	(4) #300MCM & (1) #4 G.	3"
61)	(3) #350MCM & (1) #3 G.	3"	#350MCM	310	75°	COMP.	83	(4) #350MCM & (1) #3 G.	3"
62)	(3) #400MCM & (1) #3 G.	3"	#400MCM	335	75°	COMP.	84)	(4) #400MCM & (1) #3 G.	3"
63)	(3) #500MCM & (1) #3 G.	3"	#500MCM	380	75°	COMP.	85	(4) #500MCM & (1) #3 G.	4"
64)	(3) #600MCM & (1) #2 G.	4"	#600MCM	420	75°	COMP.	86)	(4) #600MCM & (1) #2 G.	4"
65)	(3) #700MCM & (1) #2 G.	4"	#700MCM	460	75°	COMP.	87	(4) #700MCM & (1) #2 G.	4"
(66)	(3) #750MCM & (1) #2 G.	4"	#750MCM	475	75°	COMP.	88)	(4) #750MCM & (1) #2 G.	4"

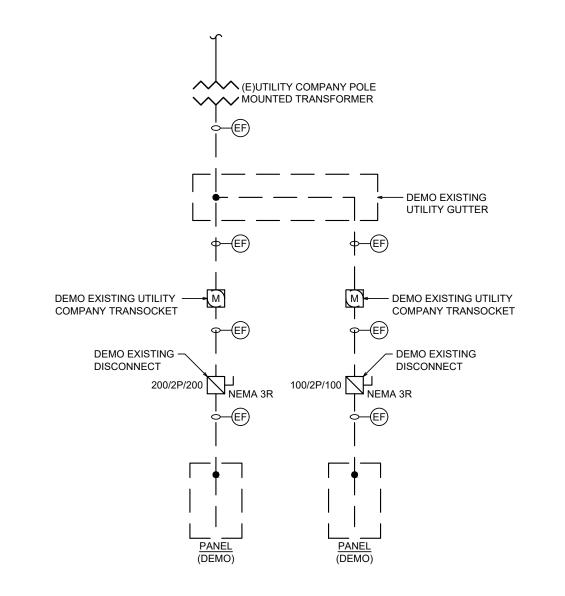
# FEEDER SCHEDULE NOTES:

1. WHERE PARALLEL FEEDERS ARE USED, RESIZE GROUND WIRE PER NEC TABLE 250.122.

2. RESIZE MOTOR CIRCUIT GROUND WIRES PER OVERCURRENT DEVICE AS SCHEDULED IN NEC TABLE 250.122. 3. PROVIDE COMPRESSION LUGS ON LOADS ABOVE 100 AMPS.









DATE: 08-28-2020 DESIGNED BY: JG DRAWN BY: AV REVIEWED BY: JG REVISED: REVISED:

REVISED:

HUNTSVILLE REPAIRS TO CCC BUBOATH

WILDLIFE

SHEET TITLE **DETAILS AND** SCHEDULES -ELECTRICAL

SHEET NUMBER

E5.1

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02 SINGLE LINE DIAGRAM - ELECTRICAL - ADD ALTERNATE #1

0 1 DEMO SINGLE LINE DIAGRAM - ELECTRICAL - ADD ALTERNATE #1

-EPLANS.dwg