SHEET NUMBER 1

SHEET TITLE 100% CONSTRUCTION DOCUMENTS

LOCATION KEY

PROJECT NUMBER: 118540
SITE DEVELOPMENT AND VISITOR CHECK-IN
DEVILS RIVER DAN A. HUGHES UNIT

GENERAL NOTES

C0.02
EXISTING GRAVEL ROAD
EXISTING FENCE (TYP.)
EXISTING KEY PAD TO BE REMOVED
EXISTING CONCRETE PAD TO BE REMOVED
PROPOSED KEYPAD LOCATION (REFER TO ARCH PLANS)
PROPOSED SIGN FOR OUTBOUND EGRESS TO EXIT FIRST (BY TPWD)
PROPOSED INFORMATION KIOSK (BY TPWD)
EXISTING GATE (REFER TO ARCH PLANS FOR IMPROVEMENTS)
<table>
<thead>
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<th>POINT NO.</th>
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<th>DESCRIPTION</th>
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**SITE DEVELOPMENT AND VISITOR CHECK IN**
PROJECT NUMBER: 118540

**DELLS RIVER DAN A HUGHES UNIT**

**CLICK JOB NO.**
P: 214.871.2302
DALLAS, TEXAS 75201

**CLICK ENGINEERING**
SUITE 2850
TYPICAL ROADWAY SECTION

PROPOSED GABION STRUCTURE RETAINING WALL (IF REQUIRED). REFER TO PLAN FOR RETAINING WALL LOCATIONS.

PROPOSED GRAVEL ROAD 2% TO 3% (REFER TO GRADING PLANS)

4' 18'

4'

PROPOSED GABION STRUCTURE RETAINING WALL (IF REQUIRED). REFER TO PLAN FOR RETAINING WALL LOCATIONS.
1. GABION RETAINING WALL TO 4 FT TALL
2. GABION RETAINING WALL 4 FT TO 5.5 FT
3. GABION RETAINING WALL GREATER THAN 5.5 FT

NOTES
1. GABION RETAINING WALLS MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAIL M19-4905.
2. GABION FILL MATERIAL MUST BE EROSION CONTROL GRADES.
3. ROCK INFILL MUST BE SUCH THAT SLOPES ARE NOT超過 45° AND محافظ التجاعيد

SCALE: NOT TO SCALE

GABION RETAINING WALL 4 FT TO 5.5 FT

GABION RETAINING WALL GREATER THAN 5.5 FT

ROCK INFILL

GABION RETAINING WALL TO 4 FT TALL

GABION RETAINING WALL TO 4 FT TALL
MATCHLINE - SEE SHEET C3.05

LEGEND

NOTES:
1. INSTALL: 2" 90° BEND 5.00' (TYP)
2. INSTALL: 2" 90° BEND
3. INSTALL: 2" 90° BEND
4. PROPOSED 4" SANITARY SEWER LINE
5. PROPOSED 2" WATER LINE
6. PROPOSED 2" WATER LINE
7. PROPOSED OVERHEAD ELECTRIC RELOCATION. CONTRACTOR TO COORDINATE WITH TPWD, MEP ENGINEER, AND ELECTRIC PROVIDER FOR CONSTRUCTION.
8. PROPOSED 2-6" STORM LINES TO BE INSTALLED UNDER PROPOSED SIDEWALK.

OHE

SEPTIC TANKS

PROPOSED 4" SANITARY SEWER
BUILDING SERVICE CONNECTION
(REFER TO MEP PLANS FOR CONTINUATION)

PROPOSED 2" WATER LINE SERVICE. (REFER TO MEP PLANS FOR CONTINUATION)

PROPOSED 2" WATER LINE

INSTALL: 2" 90° BEND

4/16/2021
CLICK ENGINEERING
325 N. SAINT PAUL ST.
SUITE 2850
DALLAS, TEXAS 75201
P: 214.871.2302
TEXAS REG. NO. F-10142
CLICK JOB NO. 19-075

SHEET NUMBER OF SHEET TITLE
100% CONSTRUCTION DOCUMENTS

LOCATION KEY

GRAPHIC SCALE
1 INCH = 100 FEET

UTILITY PLAN
C3.06

SITE DEVELOPMENT AND VISITOR CHECK-IN
DEVILS RIVER DAN A. HUGHES UNIT
PROJECT NUMBER 118540
1. 3/8" Ø HOLES @ 120' SPACING
2. MATCHED BETWEEN PLATE AND GASKET
3. 1" HOLE FOR POLYLINE TO BE FOR AIR LINE LEVEL INDICATOR
4. 1" COLLAR WELDED FOR 1" PVC WELL VENT
5. O.D. OF 6" PVC CASING
6. 10" Ø STEEL SLEEVE WELL COVER
7. 1 1/2" COLLAR WELDED FOR ELECTRICAL WIRING
8. 3/4" COLLAR WELDED FOR SUPPORT CABLE
9. COLLAR WELDED PROTRUDING THROUGH 1 1/2" PLATE TO CONNECT TO WELL PIPING
10. 1 1/2" STEEL PLATE - TOP
11. 1 1/2" RUBBER GASKET - BOTTOM

APPLY NSF APPROVED SEALANT AROUND PIPE OPENING

1. 2" STEEL PLATE
2. 1 1/2" RUBBER GASKET
3. 3/8" BOLTS (A/R)

6" Ø CASING
10" Ø STEEL SLEEVE OVER PVC CASING
6" CONCRETE AROUND 10" Ø SLEEVE

WELL HOUSE SLAB

THE SEALING SLAB WILL BE PART OF THE PUMP HOUSE FOUNDATION

R7.00' R3.00' R4.9750'

2" 10" 2" 6" 6" 5" 5"

ADJUST HOLES ACCORDINGLY SO AS TO FIT INSIDE THE 6" Ø CASING

2" AIR VALVE OR EQUAL
2" BV
BELL REDUCER
THREADED "T"
FLANGE ADAPTER
3" CHECK VALVE  APCO
RUBBER FLAPPER
0-150 PSI GAUGE WITH 1" P.V.
3" TURBINE METER
BUTTERFLY VALVE
FLANGE ADAPTER
SAMPLING TAP
2" WYE STRAINER
W/SCREEN AND BV

#16 OR FINER CORROSION RESISTANT SCREEN

AIR LINE TO TOP OF WELL PUMP (0 TO 500 FT DEPTH) GAGE MOUNTED ON WELL HEAD

POLY STRAP 3'-0" O.C.
18" MIN. FLEX CONDUIT
JUNCTION BOX
UNION
STEEL SLEEVE OVER CASING

PIPE SUPPORT CONDUIT AND CONDUCTORS TO DISCONNECT CONTROLLERS

3/8" X 4" STEEL PLATE, BEND AS REQUIRED
2-3/8" O.D. PIPE X 6" LONG
2-3/8" X 1-1/4" BELL REDUCER
PAINT AS SPECIFIED
1-1/4" X PIPE NIPPLE X LENGTH
1 1/4" X 1 1/4" RODS X 4" LONG EACH SIDE
2 3/8" X 1 1/4" BELL REDUCER
PAINT AS SPECIFIED
2 3/8" O.D. PIPE X 6" LONG
PLATE IS NOT CONNECTED TO SLAB

PROPOSED PIPE SUPPORT OR APPROVED EQUAL

4/16/2021
CLICK ENGINEERING
325 N. SAINT PAUL ST.
SUITE 2850
DALLAS, TEXAS 75201
P: 214.871.2302
TEXAS REG. NO. F-10142
CLICK JOB NO. 19-075

SHEET NUMBER OF SHEET TITLE
100% CONSTRUCTION DOCUMENTS

LOCATION KEY

PROJECT NUMBER: 118540

SITE DEVELOPMENT AND VISITOR CHECK-IN
DEVILS RIVER DAN A HUGHES UNIT
1. PVC water line from well house
2. Ball valve
3. PVC water line to pump house
4. PVC water line from external storage tank
5. Typical media filter installation
6. PVC water line to distribution
7. Storage of 55' gallon sodium hypochlorite (chlorine) in sealed 55-gallon container
8. Temporary storage of 55' gallon sodium hypochlorite (chlorine) in sealed 55-gallon container
9. 2" PVC water line to pump house
10. 2" PVC water line from well house

**Equipment Notes:**

1. PVC piping
2. Ball valve (open during normal operation)
3. Ball valve (closed during normal operation)
4. Primary sand media filter
5. Secondary media filter (if req'd)
6. Water softener
7. Water softener brine tank
8. Chlorine feed pump
9. Booster pump
10. Pressure regulator valve
11. Pressure tank
12. Solenoid pressure switch
13. Pressure gauge (0-150 PSI)
14. Check valve
15. Ball valve (open during normal operation, to be closed during filter backwash activities)
16. Pressure switch
17. Chlorinator

The contractor shall provide a minimum of 2-hours of operation and maintenance training to TPWD staff on the new well system including pump panel, pressure switch adjustment and chlorinator operation.

4/16/2021
CLICK ENGINEERING
325 N. SAINT PAUL ST.
SUITE 2850
DALLAS, TEXAS 75201
P: 214.871.2302
TEXAS REG. NO. F-10142
CLICK JOB NO. 19-075

Sheet Number: 100%
Sheet Title: Construction Documents
Location Key: Scale: Not to Scale
Project Number: 118540
Site Development and Visitor Check-in
Devil's River Dan A. Hughes Unit
PWS Well Details

AVERAGE DAILY WATER FLOW:

MAXIMUM WELL FLOW RATE:
1. CONCRETE PAVEMENT SECTIONS

2. CONCRETE PAVEMENT JOINTS

3. SANITARY SEWER MANHOLE DETAIL

4. WATER LINE EMBEDMENT

5. SANITARY SEWER EMBEDMENT

6. SANITARY SEWER CLEANOUT DETAIL

7. ACCESSIBLE PARKING PAVEMENT MARKING
1. ROCK CHECK DAM

2. FILTER SOCK DETAIL

3. CONCRETE WASHOUT DETAIL

---

**LOCATION KEY**

**PROJECT NUMBER:** 118540

**SITE DEVELOPMENT AND VISITOR CHECK-IN**

**DEVILS RIVER DAN A. HUGHES UNIT**

**EROSION CONTROL**

**DETAILS**

1. **ROCK CHECK DAM**
   - Scale: Not to Scale
   - 10' MINIMUM A
   - 3' 10 mil PLASTIC LINING

2. **FILTER SOCK DETAIL**
   - Scale: Not to Scale
   - 10 mil PLASTIC LINING
   - BERM
   - SANDBAG

3. **CONCRETE WASHOUT DETAIL**
   - Scale: Not to Scale
   - 10 mil PLASTIC LINING
   - BERM
   - SANDBAG

**SCALE:** Not to Scale

---

**CLICK ENGINEERING**

325 N. SAINT PAUL ST.
SUITE 2850
DALLAS, TEXAS 75201

P: 214.871.2302
TEXAS REG. NO. F-10142

CLICK JOB NO. 19-075

**SHEET TITLE:** 100% CONSTRUCTION DOCUMENTS

**SHEET NUMBER:** 1
### Plant Legend

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<th>Code</th>
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<th>Scientific Name</th>
<th>Estimated Date</th>
<th>Numbers</th>
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<td>Northern Pike</td>
<td>Esox lucius</td>
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</tbody>
</table>

### Project Number: 116010

**Texas Parks & Wildlife**

**Devils River A. Hughes Unit**

**Site Development and Visitor Check-In**

**Sheet No.: GL500**

**Scale: 1" = 100'**

**Legend:**

- **A:** Aquatic Plants
- **B:** Benthic Vegetation
- **C:** Coastal Grasses
- **D:** Dune Vegetation
- **E:** Estuarine Vegetation
- **F:** Forest vegetation
- **G:** Grassland Vegetation
- **H:** Mixed Vegetation
- **I:** Natural Vegetation
- **J:** Native Species
- **K:** Native Woody Species
- **L:** Non-Native Woody Species
- **N:** Native Woody Species
- **O:** Non-Native Woody Species
- **P:** Perennial Vegetation
- **R:** Riparian Vegetation
- **S:** Sedgic Vegetation
- **T:** Tidal Vegetation
- **V:** Vegetation in Vernal Ponds
- **W:** Wetland Vegetation
- **X:** Woody Non-Native Species
- **Y:** Woody Native Species
- **Z:** Woody Native Species

**Legend Key:**

- **A:** Aquatic Plants
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- **X:** Woody Non-Native Species
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IRRIGATION BOOSTER PUMP

PUMP ELEVATION: 1'-0" HIGHER THAN ANY TO WHICH IT WILL DELIVER WATER

PUMP INSTALLATION REQUIREMENTS:
1. LOCATION OF PUMP ENCLOSURE
2. LOCATION OF PUMP ENCLOSURE
3. INSTALLATION OF PUMP ENCLOSURE
4. INSTALLATION OF PUMP ENCLOSURE
5. INSTALLATION OF PUMP ENCLOSURE

IRRIGATION LEGEND

- 1" INJURED AREAS LETTERED "K"
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- 1" INJURED AREAS LETTERED "K"
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- 1" INJURED AREAS LETTERED "K"

IRRIGATION NARRATIVE

THE INTENT OF THE IRRIGATION SYSTEM IS TO UTILIZE A RAINWATER HARVESTING SYSTEM AND IRRIGATION SYSTEM TO PROVIDE IRRIGATION TO THE NATIVE SEED RE-ESTABLISHMENT.

CONSTRUCTION NOTES

- THE INSTALLATION OF THE IRRIGATION BOOSTER PUMP OF THE APPROPRIATE SIZE AND LOCATION SHALL BE DETERMINED BY THE OWNER.
- A TEMPORARY SLEEVE INSTALLATION SHALL BE INCLUDED TO ALLOW FOR PUSH-IN FITTINGS.
- ALL INSTALLATION MUST BE PERFORMED IN ACCORDANCE WITH THE CANADA BUILDING CODES.
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REMOTE CONTROL DRIP VALVE ASSEMBLY

DRIP FLUSH CAP ASSEMBLY

SUBSURFACE DRIP ASSEMBLY IN SHRUB BEDS
BOOSTER PUMP NOTES

1. BOOSTER PUMP AND ALL ASSOCIATED CONTROLS SHALL BE FULLY ENCLOSED IN ALUMINUM ENCLOSURE WITH LOCKING DOORS, VENT AND VENTILATION FAN. NEMA 3R ENCLOSURE WITH LOCKING DOORS, VENT AND VENTILATION FAN REQUIRED BY PRECISION PUMPING SYSTEMS SPECIFICATIONS. CONTACT: 208-323-5300.

2. BOOSTER PUMP AND ALL ASSOCIATED CONTROLS SHALL BE FULLY ENCLOSED IN ALUMINUM ENCLOSURE WITH LOCKING DOORS, VENT AND VENTILATION FAN. NEMA 3R ENCLOSURE WITH LOCKING DOORS, VENT AND VENTILATION FAN REQUIRED BY PRECISION PUMPING SYSTEMS SPECIFICATIONS. CONTACT: 208-323-5300.

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4. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

5. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

6. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

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31. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

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36. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

37. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

38. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

39. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.

40. VERIFY EXACT LOCATION FOR CONCRETE SLAB WITH OWNER'S REPRESENTATIVE.
GENERAL NOTES (page 1 of 2)

05-CONCRETE (CONT'D.)

08-WOOD SHEATHING

1. Roof sheathing shall be cut from 2 1/2" nominal Douglas Fir and 1 1/2" nominal Sanded Softwood. All sheathing shall be installed with 3 1/2" hot-dipped galvanized nails at 6" o/c, 1 1/2" from the ends, and 1 1/2" from the edges. The sheathing shall be installed with a minimum of 3 courses around all openings and penetrations.

2. The main frame is to be a simple system type with connections as shown on the structural drawings. Connections shall be designed for the end reaction of beams as tabulated in Table 10-3, and for the end reactions of columns as tabulated in Table 10-4. Connections shall be designed to be able to transmit the loads to the structural system.

3. Roof shear walls shall be cut from 2 1/2" nominal Douglas Fir and 1 1/2" nominal Sanded Softwood. All shear walls shall be installed with 3 1/2" hot-dipped galvanized nails at 6" o/c, 1 1/2" from the ends, and 1 1/2" from the edges. The shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

4. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

5. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

6. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

7. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

8. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

9. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

10. Roof sheathing and roof shear walls shall be installed with a minimum of 3 courses around all openings and penetrations.

11-HEAVY TIMBER ENGINEERED LUMBER CONSTRUCTION

1. Site development and visitor check-in

PROJECT NUMBER: 118540

SHEET NUMBER
### Required Verification and Inspection of Masonry Construction

<table>
<thead>
<tr>
<th>Required Verification/Inspection (Ref Table 1.16.3 ACI 530)</th>
<th>Required Verification/Inspection of Concrete Construction (Ref 1705.3 of IBC)</th>
<th>Required Statement Special Inspections (Ref Table 1.06 of IBC)</th>
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<tr>
<td>1. Preparation of Structural Layout, Group, and Any Prestressing Group for Bonded Tendons</td>
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<td>2. Preparation of Site, Placement of Structural Elements</td>
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<td>X ACI 318: 3.5, 7.1.7</td>
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<td>3. Preparation of Type, Size, Location, and Any Prestressing Tendons and Anchors Including Bradley Testing</td>
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<td>4. Placement of Structural Units and Construction of Mortar Joints</td>
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<td>ACI 318: 3.5, 8.1.2, 21.2.8</td>
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<tr>
<td>9. Placement of Reinforcement, Connectors, and Prestressing Tendons</td>
<td>X -</td>
<td>ACI 318: 5.5.11.5</td>
</tr>
<tr>
<td>10. Inspection of Formwork for Shape, Location, and Thickness</td>
<td></td>
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</tr>
<tr>
<td>11. Inspection of Reinforcing Steel, including Inspecting Rebars Cast in Concrete</td>
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<td>12. Inspections of Structural, Mechanical, and Electrical Components</td>
<td></td>
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</tr>
<tr>
<td>13. Preparation of Structural Layout, Group, and Any Prestressing Group for Bonded Tendons</td>
<td>- X ACI 530: 1.18</td>
<td>-</td>
</tr>
<tr>
<td>14. Preparation of Site, Placement of Structural Elements</td>
<td>X -</td>
<td>X ACI 318: 3.5, 7.1.7</td>
</tr>
<tr>
<td>15. Preparation of Type, Size, Location, and Any Prestressing Tendons and Anchors Including Bradley Testing</td>
<td>X -</td>
<td>ACI 318: 4.0.5.4</td>
</tr>
<tr>
<td>16. Placement of Structural Units and Construction of Mortar Joints</td>
<td>X -</td>
<td>ACI 318: 3.5, 8.1.2, 21.2.8</td>
</tr>
<tr>
<td>17. Placement of Reinforcement, Connectors, and Prestressing Tendons and Anchors</td>
<td>X -</td>
<td>ACI 318: 4.5.5.4</td>
</tr>
<tr>
<td>18. Placement of Reinforcement, Connectors, and Prestressing Tendons and Anchors</td>
<td>X -</td>
<td>ACI 318: 5.5.11.5</td>
</tr>
<tr>
<td>19. Placement of Reinforcement, Connectors, and Prestressing Tendons Indicating Compliance with the Contract Document</td>
<td>X -</td>
<td>ACI 318: 5.6, 5.8</td>
</tr>
<tr>
<td>20. Placement of Reinforcement, Connectors, and Prestressing Tendons</td>
<td>X -</td>
<td>ACI 318: 5.5.11.5</td>
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<td>29. Placement of Reinforcement, Connectors, and Prestressing Tendons and Anchors</td>
<td>X -</td>
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<td>30. Placement of Reinforcement, Connectors, and Prestressing Tendons Indicating Compliance with the Contract Document</td>
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</tr>
<tr>
<td>45. Inspections of Structural, Mechanical, and Electrical Components</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
- Governmental and Project-Specific Special Inspections (Including Special Inspections Pursuant to the Building Code) Shall Be Addressed to Local Entities in Accordance With the Building Code. Inspections Shall Be Conducted As Required by the Building Code. Job Site Visits by the Structural Engineer Do Not Comprise and Are Not a Substitute for Special Inspections.
- The Schedule of Inspections and/or Tests are Required to be Conducted During the Fabrication, Inspection, and Construction of the Structural Elements. The Inspections and/or Tests Are Designed to Ensure Compliance with the Building Code and/or the Contract. The Schedule of Inspections and/or Tests Shall be Considered a “Statement of Special Inspections” According to IBC Section 1706.7.
- Material and/or Product Testing Shall Be Performed or Inspected Prior to Use in the Project, Generally Simultaneous with the Obtaining of Final Construction Documents. This Shall Include Ongoing Inspections, Actual Use, Inspection, and/or Testing. Special Inspections Shall Be Performed in Accordance With the Building Code and/or the Contract. The Schedule of Inspections and/or Tests Shall be Considered a “Statement of Special Inspections” According to IBC Section 1706.7.
- The Contractor’s Responsibility to Inspect, Test, and/or Verify These Tests and Inspections Are Performed.

**SCHEDULE OF SPECIAL INSPECTIONS:**
- Required Statement Special Inspections (Ref Table 1.06 of IBC)

**TABLE OF CONTENTS:**
- Required Statement Special Inspections (Ref Table 1.06 of IBC)
- Required Verification and Inspection of Masonry Construction (Ref Table 1.16.3 ACI 530)
- Required Verification and Inspection of Concrete Construction (Ref 1705.3 of IBC)
- Required Verification and Inspection of Soils (Ref Table 1.06.6 of IBC)
- Required Verification and Inspection of Wood Framing

**PROJECT NUMBER:** 118540

**DRAWN BY:**

**C**

**SHEET TITLE**

**SHEET NUMBER**

**DATE**

**ARCHITECTURE, M ECH ANICAL, AND ELECTRICAL CO M PONENTS REQ UIRING SPECIAL INSPECTIO NS PER SECTIO N 1705 O F THE IBC HAVE**

**ARCHITECT/M ECH ANICAL/ELECTRICAL**

**ABC COMPANY**

**ADDRESS:**

**CITY:**

**STATE:**

**ZIP CODE:**

**PHONE:**

**EMAIL:**

**SCHEDULE OF SPECIAL INSPECTIONS:**

**TABLE OF CONTENTS:**

**PROJECT NUMBER:** 118540

**DRAWN BY:**

**C**

**SHEET TITLE**

**SHEET NUMBER**

**DATE**

**ARCHITECTURE, M ECH ANICAL, AND ELECTRICAL CO M PONENTS REQ UIRING SPECIAL INSPECTIO NS PER SECTIO N 1705 O F THE IBC HAVE**

**ARCHITECT/M ECH ANICAL/ELECTRICAL**

**ABC COMPANY**

**ADDRESS:**

**CITY:**

**STATE:**

**ZIP CODE:**

**PHONE:**

**EMAIL:**
**Foundation and Slab Plan**

1. Footing elevation = Datum elevation + 1651.76.
2. Slab on grade to be 5" thick concrete with a max. of 6" C30.6.
3. Footings to be reinforced per details in Table 6.10, Appendix C. Anchor bolts shall be located at the back of all anchor walls per foundation schedule C20.103.

**NOTES:**
- Edge of slab = Grid Line A
- Control joint - Typical
- Shear walls, see shearwall schedule, DWG. S5.3
- Holddowns shall be located at the ends of all barrier, over prepared subgrade per geotech report.
- Each way 2" clear from top of slab, over 15 mil vapor barrier, on slab on grade to be 5" thick concrete with #3 at 16" C/C.
- Finish floor elevation 100'-0" = Datum elevation 1651.76.
- See detail 06/S3.1 for slab reinforcement.
- Footings: 5'-0" x 5'-0" x 1'-0" spread.

**REFERENCES:**
- Foundation and Slab Plan
- Schedule DWG S5.3
- Detail 06/S3.1
- SHEAR WALLS, SEE SHEARWALL SCHEDULE, DWG. S5.3
- Holddowns shall be located at the ends of all barrier, over prepared subgrade per geotech report.
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- Finish floor elevation 100'-0" = Datum elevation 1651.76.
- See detail 06/S3.1 for slab reinforcement.
- Footings: 5'-0" x 5'-0" x 1'-0" spread.

**Drawn by:** CLICK ENGINEERING 325 N. SAINT PAUL ST. SUITE 2850 DALLAS, TEXAS 75201 P: 214.871.2302 TEXAS REG. NO. F-10142 CLICK JOB NO. 20-036

**Location Key:**
- Location of foundation and slab plan
- Sheet number S2.1
- Sheet title Foundation and Slab Plan
FINISH FLOOR ELEVATION 100'-0" = DATUM ELEVATION 1651.76.

SLAB ON GRADE TO BE 5" THICK CONCRETE WITH #3 AT 16" C/C EACH WAY 2" CLEAR FROM TOP OF SLAB, OVER 15 MIL VAPOR BARRIER, OVER PREPARED SUBGRADE PER GEOTECH REPORT.

HD = HOLDDOWN - HOLDDOWNS SHALL BE LOCATED AT THE ENDS OF ALL SHEAR WALLS, SEE SHEARWALL SCHEDULE, DWG. S5.3

1. PLAN NO TES:

PUM P BUILDING - FOUNDATION AND SLAB PLAN
SCALE: 1/4" = 1'-0"

16' - 6 1/2" - FACE OF SLAB
16' - 0" - FACE OF STUD
14" WIDE GRADE BEAM REINF. WITH 2-#6 CONT. TOP & BOTTOM AND #3 STIRRUPS AT 12" C/C - #6 BARS - TOP BEAM IS 6" BELOW FIN. FLR.

2X6 STUDS AT 16" OC WITH 3/4" CEDAR SIDING OVER 2" INSULATION. T/STUD 8'-0" AT 2 SIDES, SLOPE TO MATCH ROOF PITCH ON 2 SIDES.

PUMP BUILDING - ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

2X6 RAFTERS AT 16" C/C EA. SIDE (2) 2X12 RIDGE
2X8 RAFTERS AT 24" C/C, MAX.

WELL HOUSE - FOUNDATION AND SLAB PLAN
SCALE: 1/4" = 1'-0"

11' - 0" - FACE OF STUD
3' - 4" 6' - 4 1/2"
EXTEND CONC. SLAB AT DOOR AS SHOWN
EXTEND CONC. SLAB AT DOOR AS SHOWN
9' - 3 1/4" - FACE OF STUD

WELL HOUSE NOTES:
1. VERIFY DIMENSIONS FOR PLACEMENT OF WELL HOUSE IN RELATION TO WELL LOCATION - REFER TO CIVIL AND ARCH. DWGS. FOR WELL SIZE AND LOCATION.

NOTE: ROOF TO BE REMOVABLE OR HINGED FOR WELL ACCESS.

PROJECT NUMBER: 118540
DATE: 04-07-04
DRAWN BY: 04-07-04
CHECKED BY: 04-07-04

LOCATION KEY:

DEVILS RIVER DAN A HUGHES UNIT

WELL LOCATION

NOTE 1
SEE WELL HOUSE

S2.2

NOTE:
1. FINISH FLOOR ELEVATION 100'-0" = DATUM ELEVATION 1651.76.
2. SLAB ON GRADE TO BE 5" THICK CONCRETE WITH #3 AT 16" C/C EACH WAY 2" CLEAR FROM TOP OF SLAB, OVER 15 MIL VAPOR BARRIER, OVER PREPARED SUBGRADE PER GEOTECH REPORT.
3. HOLDDOWNS - HOLDDOWN SHALL BE LOCATED AT THE ENDS OF All SHEAR WALLS, SEE SHEARWALL SCHEDULE, DWG. S5.3
4. ROOF TO BE REMOVABLE OR HINGED FOR WELL ACCESS.
MONUMENT SIGN PLAN

SECTION

02

03

STONE VENEER - FOR LANDSCAPE Dwg.

FOR INFO NOT SHOWN, REFER LANDSCAPE DWGS.

STEEL SIGN PANEL

SEE ARCH. DWGS.

4 - #6 CONT. TOP & BOTTOM

#4 STIRRUPS

AT 12" C/C

4 - #6 CONT. TOP & BOTTOM (CONT. FROM SECTION 02)

2 - #5 BOTTOM EA. SIDE

#5 AT 12" C/C TOP

#5 AT 12" C/C BOTTOM

1'-6" THICK CONCRETE FOUNDATION ON COMPACTED FILL OR SUBGRADE

6' - 0" 9' - 0" 6' - 0"

15' - 0"

1' - 6" 3' - 0" 1' - 6"

3" 1' - 6" 2' - 6" 1' - 6" 3"

3" 9' - 0" 5' - 6" 3"

1'-6" THICK CONCRETE FOOTING ON COMPACTED FILL OR SUBGRADE

STONE VENEER - FOR LANDSCAPE Dwg.

FOR INFO NOT SHOWN, REFER LANDSCAPE DWGS.

02

03

SECTION

01

MONUMENT SIGN PLAN

SECTION
T/WALL
EL. 109'-0"
T/GLULAM BEAM
EL. VARIES
2X12 Rafter at 16" OC
TOENAIL TO GLULAM BM.
FACE BRICK
REFER ARCH'L.
GLULAM BEAM - SEE PLAN
3 - 2X10 & 2X6 CON.
SEE 05/S5.2 FOR GLULAM BEAM CONNECTIONS
5 1/2" X 11" GLULAM BEAM SEE PLAN
2X6 STUD WALL SEE PLAN
GLULAM BEAM SEE PLAN
T/TRELLIS RAFTER SEE PLAN
2X12 TRELLIS RAFTERS AT 16" OC FOR COLUMN TO BEAM CONNECTION BEYOND SEE 05/S5.2
COPE 2X12 RAFTER TO FIT AROUND GLULAM BEAM DO NOT OVERCUT
1/2"
IN.
5"
PLYWOOD ROOF DECK, SEE PLAN
2X12 RAFTERS AT 16" OC
PLYWOOD DECKING, SEE GEN. NOTES
2X6 OUTLOOKERS, SEE PLAN
SEE PLAN CONT. 2X6 BLOCKING BETWEEN OUTLOOKERS
SIMPSON HL35 3X5 ANGLE WITH 1/2" THRU BOLTS AND 1/2" LAG BOLTS INTO PLATE (TYP. AT CONCEALED LOCATIONS SEE PLAN)
SIMPSON H2.5A CLIP AT EA. RAFTER SIMPSON A34 CLIP AT EA. RAFTER
BENT PL5/16 X 8 X 8 WITH 3/8" CARRIAGE BOLTS AT 2'-0" C/C
DECK BRG. EL. SEE PLAN
2X6 OUTLOOKERS - SCAB ONTO 2X12 RAFTERS
3-16D T&B EA END; + 2 T&B ADD'L BTWN
2" PLYWOOD DECKING, SEE GEN. NOTES
2X12 Rafter at 16" OC
2X6 OUTLOOKERS AT 2'-0" OC F/L C/C
2-2X12 BEAM 2X6 JOIST HANGER AT EACH OUTLOOKER
SIMPSON HL35 3X5 ANGLE WITH 1/2" THRU BOLTS AND 1/2" LAG BOLTS INTO PLATE (TYP. AT CONCEALED LOCATIONS SEE PLAN)
DATE:
SHEET NUMBER
PROJECT NUMBER: 118540
SITE DEVELOPMENT AND VISITOR CHECK-IN
01 SECTION

02 SECTION

03 SECTION

PLYWOOD DECKING
SEE GEN. NOTES

METAL ROOF DECK
SEE PLAN

2x6 STUD
SHEARWALL
SEE PLAN

BOTTOM OF DECK
EL., SEE PLAN

DECK BRG. EL.

SIMPSON H2.5A
CLIP AT EA. RAFTER

SIMPSON A34 CLIP
AT EA. RAFTER

GLULAM BEAM
(BEYOND)
SEE PLAN

2x BLOCKING
BETWEEN RAFTERS

SHEATHING BOTH SIDES

FOR CLERESTORY
HEAD HEIGHT,
REFER ARCH. DWGS.

1-2X6 HORIZ.

2-2X6 HORIZ.

1-2X6 VERT.

EA. SIDE

2X12 ROOF FRAMING,
SEE PLAN

GLULAM BEAM
SEE PLAN

PLYWOOD DECKING
SEE GEN. NOTES

EL. VARIES
SEE PLAN

METAL ROOF DECK,
SEE PLAN
NOTE:

1. REFERENCE FINISH PLANS, SCHEDULES, AND INTERIOR ELEVATIONS FOR LOCATIONS OF TILE WALLS.

PARTITION TYPES

NOT TO SCALE

GENERAL NOTES:

A. PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED.

B. ALL ELEMENTS OF RATED PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS SHALL CLOSED AND ATTACHED.

C. PARTITIONS OF THE SAME RATING, MATERIAL, AND LOCATION WITHIN A BUILDING SHALL BE OF THE SAME HEIGHT AND MATERIALS.

D. NONCOMPATIBLE MATERIALS SHOULD NOT BE USED IN THE SAME WALL OR AREA.

E. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.

F. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD.

G. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO RECOMMENDATIONS FOR THE MANUFACTURERS AND MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING REQUIREMENTS.

H. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD.

I. REFERENCE FINISH PLANS, SCHEDULES, AND INTERIOR ELEVATIONS FOR LOCATIONS OF THE WALLS.

PARTITION TYPES

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PLAN DETAILS

1. 1" = 1'-0"

KEYNOTES

0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.
0440.07 STONE VENEER
0510.02 STEEL COLUMN (RE: STRUCTURAL)
0540.06 2" COLD FORMED METAL CHANNEL
0540.07 2" COLD FORMED METAL Z-SHAPED FURRING CHANNELS AT 16" O.C.
0550.05 1/4" STEEL PLATE
0610.03 2X WOOD BLOCKING
0610.05 1/2" EXTERIOR GRADE PLYWOOD SHEATHING
0610.10 2X 6 WOOD STUDS AT 16" O.C.
0610.11 2X 6 WOOD FRAMING
0610.31 HEAVY TIMBER COLUMN (RE: STRUCTURAL)
0610.37 2X 4 WOOD FRAMING
0620.15 1" X 8" CEDAR TONGUE AND GROOVE SIDING
0720.01 3 1/2" MINERAL WOOL BATT INSULATION
0720.03 5 1/2" MINERAL WOOL BATT INSULATION
0720.05 2" SEMI RIGID CONTINUOUS INSULATION
0725.04 FLUID-APPLIED MEMBRANE WEATHER BARRIER
0725.05 FLEXIBLE MEMBRANE FLASHING
0790.01 SEALANT WITH BACKER ROD AS REQUIRED
0790.02 SEALANT
0840.01 ALUMINUM STOREFRONT
0840.02 ALUMINUM STOREFRONT DOOR
0840.27 FOLDING GLASS ALUMINUM STOREFRONT DOOR
0920.26 5/8" CEMENTITIOUS BACKER BOARD
0920.28 5/8" GYPSUM BOARD (TYPE X)
0930.01 CERAMIC TILE
KEYNOTES
0640.01 HARDWOOD VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
0640.02 HARDWOOD VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
0930.01 CERAMIC TILE
0930.02 CERAMIC TILE (3) WITH SPACER AS SHOWN
1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
1020.17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
1020.20 SOAP DISPENSER (SURFACE-MOUNTED)
1020.23 STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
1020.32 STAINLESS STEEL FRAMED MIRROR
1020.34 VINYL-COATED PIPING WRAP
1020.47 ELECTRIC HAND DRYER
1120.09 COPIER (N.I.C.)
1130.03 REFRIGERATOR WITH ICE MAKER
2240.01 WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
2240.03 WALL-HUNG LAVATORY WITH CARRIER
2240.04 PORCELAIN LAVATORY
2240.07 SINK FITTINGS
2650.03 SURFACE-MOUNTED LIGHT FIXTURE

OCCUPANCY: 1 1/2" DIAMETER GRAB BAR (36" LONG)
OCCUPANCY: 1 1/2" DIAMETER GRAB BAR (42" LONG)
OCCUPANCY: SOAP DISPENSER (SURFACE-MOUNTED)
OCCUPANCY: STAINLESS STEEL SEMI-RECESSED TOILET PAPER DISPENSER
OCCUPANCY: STAINLESS STEEL FRAMED MIRROR
OCCUPANCY: VINYL-COATED PIPING WRAP
OCCUPANCY: ELECTRIC HAND DRYER
OCCUPANCY: COPIER (N.I.C.)
OCCUPANCY: REFRIGERATOR WITH ICE MAKER
OCCUPANCY: WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
OCCUPANCY: WALL-HUNG LAVATORY WITH CARRIER
OCCUPANCY: PORCELAIN LAVATORY
OCCUPANCY: SINK FITTINGS
OCCUPANCY: SURFACE-MOUNTED LIGHT FIXTURE
FINISH PLAN

1.) REFER TO FINISH LEGEND FOR DESCRIPTIONS OF MATERIALS USED.
2.) CONTRACTOR SHALL ALIGN TILE GRID AT CENTER OF WALL.
3.) ALL PRINTED AND STENCILED PATTERN TEXTURESmust be ordered and approved by structural engineers.
4.) CONTRACTOR SHALL ALIGN TILE GRID AT CENTER OF WALL.
5.) CONTRACTOR SHALL ALIGN TILE GRID AT CENTER OF WALL.
6.) ALL PRINTED AND STENCILED PATTERN TEXTURESmust be ordered and approved by structural engineers.
7.) ALL PRINTED AND STENCILED PATTERN TEXTURESmust be ordered and approved by structural engineers.
8.) PROVIDE CORNER GUARDS (SS1) AND ENDWALL GUARDS (SS2) AS SHOWN.
9.) PROVIDE CORNER GUARDS (SS1) AND ENDWALL GUARDS (SS2) AS SHOWN.
10.) FRP LOCATIONS NOTED ON CONSTRUCTION PLAN. FRP TO 48" AFF, EPOXY PAINT ABOVE, TYP.
11.) ALL SLAB PENETRATIONS MUST BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.
12.) ALL SLAB DEPRESSIONS TO BE FILLED PER STRUCTURAL SPECIFICATIONS. TO BE LEVEL AND TRUE TO FINISH FLOOR.
MECHANICAL/ELECTRICAL/PLUMBING SITE PLAN

1. CONTRACTOR SHALL VERIFY SANITARY INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL UNDERGROUND PIPING WITH MECHANICAL, CIVIL, ELECTRICAL, AND LANDSCAPE DISCIPLINES.
3. REFER TO CIVIL PLANS FOR SITE CONTINUATION.
4. REFER TO BUILDING PIPING PLANS FOR UNDERSLAB CONTINUATION.
5. EXISTING OVERHEAD ELECTRICAL LINE RUNNING ACROSS THE SITE. COORDINATE WITH UTILITY TO REROUTE AROUND SITE.
6. LONG RANGE RADIO RECEIVER AND ANTENNA TO BE PROVIDED TO GATE SHOWN ON SHEET C2.
7. POWER TO BE ROUTED FROM NEAREST OVERHEAD LINE TO POWER GATE. METER TO BE INSTALLED AT POLE BASE. CONTROLLER TO BE INSTALLED AT RECEPTION DESK.

NOTES BY SYMBOL
1. 2" COLD WATER. REFER TO CIVIL FOR CONTINUATION.
2. 4" WASTE. REFER TO CIVIL FOR CONTINUATION.
3. 4" STORM DRAIN FROM DOWNSPOUT.
4. REFER TO LANDSCAPE FOR RAINWATER HARVESTING TANK DISTRIBUTION DETAILS.
5. 3" STORM DRAIN DOWN FROM DOWNSPOUT.
6. UNDERGROUND REFRIGERANT PIPING. INSTALL REFRIGERANT PIPING AS RECOMMENDED BY HVAC MANUFACTURER WITHIN SEALED SCHEDULE 40 PVC CHASE. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR TO COORDINATE WITH SOUTHWEST TEXAS PHONE COMPANY FOR RADIO INTERNET COORDINATION. POWER POLE LOCATION SHOWN ON PLAN IS EXPECTED LOCATION FOR ANTENNA BUT VERIFY BEFORE CONDUIT INSTALLATION. PROVIDE DEDICATED CIRCUIT TO COORDINATED ANTENNA LOCATION.
1. CONTRACTOR SHALL VERIFY SANITARY INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL UNDERGROUND PIPING WITH MECHANICAL, CIVIL, ELECTRICAL, AND LANDSCAPING DISCIPLINES.
3. REFER TO CIVIL PLAN FOR SITE CONTINUATION.
4. EACH SANITARY AND DOMESTIC WATER TIE-IN LINE SHALL BE SEPARATED BY 10' AS SHOWN.
5. EACH HOST SITE SHALL BE PROVIDED WITH A 4" CLEANOUT ELEVATED 12" FROM GRADE. PROVIDE WITH TIGHT FITTING DRAIN COVER WITH FOOT OPERATED ATTACHMENT TO OPEN DRAIN COVER.
1. Coordinate final locations of all thermostats with architect and owner prior to installation.
2. All equipment shall be installed with manufacturer recommendations/clearances.
3. Refer to architectural exterior elevations for exact locations and elevations of louver.
4. All electrical equipment panels/controls shall be in free access areas.
5. All electrical equipment panels/controls shall be in free access areas.

PLAN NOTES

MECHANICAL/ELECTRICAL/PLUMBING WELL HOUSE PLAN

MECHANICAL/ELECTRICAL/PLUMBING PUMP HOUSE PLAN
1. All duct dimensions are shown representative inside clear dimensions.

2. Rectangular Duct - First number indicates size not shown.

3. The mechanical layout shown on this drawing is for general arrangement only. The contractor shall coordinate all work with the contractor, owner, architect and all other trades involved.

4. All ductwork dimensions shown represent inside clear dimensions.

5. The contractor shall coordinate all part locations for HVAC equipment with the field conditions and structural design.

6. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

7. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

8. The contractor shall test all new piping and new equipment for proper operation and shall make all necessary repairs as required to provide a complete working system.

9. The contractor shall be responsible for restoring all areas affected by the work required in these drawings to their original condition as required by the owner/architect.

10. All work and installation shall be done by a licensed contractor with experience in the work required for this project.

11. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

12. All equipment shall be supported from structural members. No weight can be placed on the roofing materials or insulation.

13. All piping, clamps, supports, etc. shall be fastened to joists or beams. Do not attach anything directly to the deck, ceiling support system, piping, conduit or ductwork above.

14. All new equipment supports shall be installed per the architectural drawings.

15. Ductwork shop drawings shall be provided to, reviewed by, and approved by the engineer prior to any ductwork fabrication and/or installation. Ductwork shop drawings shall indicate the actual size of each section of duct and all required fittings and transitions.

16. The contractor shall provide UL listed fire dampers at all fire wall penetrations. Refer to architectural for fire wall rating. Refer to mechanical floor plans for damper sizing.

17. Provide ductwork transitions as required for all air device and equipment connections.

18. Refer to project drawings for referenced codes and tags for specific drawing code requirements.

19. Contractor shall provide UL listed damper at all fire wall penetrations. Refer to architectural for fire wall rating. Refer to referenced codes and tags for specific drawing code requirements.

20. Refer to architectural drawings for references as the work required in these drawings to their original condition as required by the owner/architect.

21. Contractor shall furnish and install all the necessary piping, fittings, valves, hardware, supports and accessories required for the proper installation of all HVAC equipment.

22. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

23. The contractor shall furnish and install all the necessary piping, fittings, valves, hardware, supports and accessories required for the proper installation of all HVAC equipment.

24. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

25. The contractor shall test all new piping and new equipment for proper operation and shall make all necessary repairs as required to provide a complete working system.

26. The contractor shall coordinate all partition penetrations with the field conditions and structural design.

27. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

28. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

29. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

30. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

31. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

32. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

33. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

34. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

35. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

36. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

37. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

38. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

39. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

40. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

41. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

42. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

43. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

44. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

45. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

46. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

47. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

48. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

49. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

50. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

51. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

52. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

53. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

54. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

55. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

56. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.

57. Do not scale locations or partitions from this drawing. The contractor shall refer to the manufacturer’s cut sheets, roughing-in dimensions, details, specifications and all other information related to the project specifications.

58. The contractor shall be responsible for scheduling, permitting, and coordinating all the inspections and tests required by the local authority having jurisdiction.

59. The contractor shall seal all penetrations with a code approved fire rated material as required to maintain the fire separation between floors/roof required by the architect.

60. The contractor shall coordinate all the partition penetrations with the field conditions and structural design.
1. PROVIDE ACOUSTICAL SEALANT AT ALL STC RATED WALL PENETRATIONS TO MITIGATE SOUND LOCATION OF ALL STC RATED WALLS.

2. THERMOSTATS WITH ARCHITECT AND OWNER PRIOR ACCESSIBLE SHOWER

3. PROVIDE MANUAL VOLUME BALANCE DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST OTHERWISE.

4. PROVIDE 1.5 TON STORAGE

5. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.

6. PROVIDE PACIFIC CONCEALED DAMPER REGULATOR FOR ALL SUPPLY, RETURN, AND EXHAUST GRILLES/DIFFUSERS LOCATED IN AREAS WHERE EXPOSED DUCTWORK IN FINISHED OCCUPIED SPACES. PAINT EXPOSED DUCTWORK AS SPECIFIED

7. PROVIDE LONG RADIUS ELBOWS EVERYWHERE POSSIBLE. OTHERWISE, PROVIDE TURNING VANES IN ALL ELBOWS PER SMACNA STANDARDS.

8. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH BOOTS. REFER TO 'U SHAPED RETURN AIR BOOT DETAIL' FOR ADDITIONAL INFORMATION. REFER TO FAN COIL UNIT DETAIL FOR ADDITIONAL INFORMATION AND DUCT ACCESSORIES.

9. PROVIDE WATER REFRIGERANT PIPING UP FROM BELOW PAVEMENT. UP TO 30 SECONDS (ADJUSTABLE).

10. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH FOLDING DOORS TO TURN 'OFF' TRANSFER OPENINGS). (ADJUSTABLE).

11. REFER TO HVAC EQUIPMENT MANUFACTURER FOR REQUIRED REFRIGERANT LINE SET SIZING.

12. SHOWER BUILDING NATURALLY VENTILATED. REFER TO ARCHITECTURAL PLANS. MECHANICAL

13. PROVIDE WATER REFRIGERANT LINES FROM BC CONTROLLER BOX TO FAN COIL UNITS LOCATED IN STORAGE.

14. PROVIDE WATER REFRIGERANT PENETRATION. 2' ABOVE PAVEMENT.

15. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH BOOTS. REFER TO 'U SHAPED RETURN AIR BOOT DETAIL' FOR ADDITIONAL INFORMATION. REFER TO FAN COIL UNIT DETAIL FOR ADDITIONAL INFORMATION AND DUCT ACCESSORIES.

16. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH FOLDING DOORS TO TURN 'OFF' TRANSFER OPENINGS). (ADJUSTABLE).

17. REFER TO HVAC EQUIPMENT MANUFACTURER FOR REQUIRED REFRIGERANT LINE SET SIZING.
# VRF Split System Heat Pump Schedule

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Tonnage</th>
<th>Nominal Capacity</th>
<th>E.A.T.</th>
<th>L.A.T.</th>
<th>Heating</th>
<th>Cooling</th>
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<tbody>
<tr>
<td>FCU-1B</td>
<td>4</td>
<td>1410</td>
<td>0.6</td>
<td>35.1</td>
<td>46.7</td>
<td>80 / 67</td>
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<tr>
<td>FCU-1C</td>
<td>2.25</td>
<td>880</td>
<td>0.6</td>
<td>20.1</td>
<td>26.3</td>
<td>80 / 67</td>
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### Louver Schedule

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Service Material</th>
<th>Free Area (sq. ft.)</th>
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<tbody>
<tr>
<td>L1</td>
<td>Exh.</td>
<td>Restroom</td>
<td>Aluminum</td>
</tr>
<tr>
<td>L37</td>
<td>5D</td>
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<td></td>
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### Louver Schedule Notes
1. Louver color shall be coordinated with architect prior to ordering.
2. All ductwork within 10'-0" of louver connection shall slope downward at 1% to louver.
3. Maintain minimum clearances for service, maintenance, and inspection.
4. Manual volume dampers shall be installed in branch duct at trunk connection for accessible ceiling. Where branch ductwork is not accessible, integral volume dampers shall be provided with the air device.
5. Provide as required for service, maintenance, and inspection.
6. Unit heaters shall be recessed within wall.
7. Provide insulated supply plenum.

### Fan Schedule

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Service</th>
<th>HP</th>
<th>RPM</th>
<th>V</th>
<th>P</th>
<th>Max. Sones</th>
<th>Max. Weight</th>
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<tbody>
<tr>
<td>EF-1</td>
<td>In Line</td>
<td>Restroom / Janitor</td>
<td>0.5</td>
<td>1,504</td>
<td>D</td>
<td>1/6</td>
<td>120 / 1</td>
<td>7</td>
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<tr>
<td>EF-3</td>
<td>In Line</td>
<td>Pump House</td>
<td>0.25</td>
<td>1,124</td>
<td>D</td>
<td>1/4</td>
<td>208 / 8</td>
<td>5</td>
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<tr>
<td>CF-1</td>
<td>Ceiling</td>
<td>Interpretive Patio</td>
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<td>100</td>
<td>W</td>
<td>-</td>
<td>-</td>
<td>50</td>
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<tr>
<td>CF-2</td>
<td>Ceiling</td>
<td>Interpretive Patio</td>
<td>N/A</td>
<td>196</td>
<td>W</td>
<td>-</td>
<td>-</td>
<td>10</td>
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### Unit Heater Schedule

<table>
<thead>
<tr>
<th>Model</th>
<th>Service</th>
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</thead>
<tbody>
<tr>
<td>UH-1</td>
<td>Janitor</td>
</tr>
<tr>
<td>UH-3</td>
<td>Well House</td>
</tr>
</tbody>
</table>

### Unit Heater Schedule Notes
1. Maintain minimum clearances required for service, maintenance, and inspection.
2. Install per manufacturer's instructions.
3. Provide insulated supply plenum for supply and return applications.
4. Provide wall bracket for horizontal discharge.
5. Thermostat shall be set at 40°F.
6. Provide all unit heaters with summer fan switch.
7. Provide all unit heaters in summer fan switch.
1. Provide and install condensate float switch in auxiliary drain pan. Upon detection of condensate, the float switch shall energize the unit.

2. Notes:
   - 1. Prohibit installation of condenser fan motor in auxiliary drain pan. Upon detection of condensate, the float switch shall energize the unit.

3. Condensate P-trap

4. Fan coil unit (with outside air)

5. Fan coil unit (without outside air)

6. Refrigerant exterior wall penetration

7. Return air boot detail

8. Ceiling diffuser connection

9. Propeller exhaust fan

10. Duct hanger

11. Inline exhaust fan

12. Structual joist unistrut hanger threaded rod exposed spiral ductwork hanger spacing shall be as per Smacna
UNIT MOUNTED THERMOSTAT UNLESS OTHERWISE SHOWN ON FLOORPLANS.

NOTES:
1. SUSPEND UNIT FROM WALL/JOIST PER MANUFACTURERS RECOMMENDATIONS.
2. BOTTOM OF SUSPENDED UNITS SHALL BE MINIMUM 6'-8" AFF FOR HEAD CLEARANCE.

UNIT HEATER (ELECTRIC)

SAFETY SCREEN FOR MOTORIZED DAMPERS
PLUMBING GENERAL NOTES

1. THE PLUMBING LAYOUT SHOWN ON THESE DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CONDITIONS AT THE JOB SITE AND ALL THE OTHER TRADES INVOLVED.

2. THE CONTRACTOR SHALL FURNISH ALL NECESSARY PIPING, FITTINGS, VALVES, HARDWARE, SUPPORTS AND ACCESSORIES REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL THE PLUMBING FIXTURES AS REQUIRED BY CODE, INCLUDING ALL HANDICAPPED CODE AND 'ADA' & 'TAS' REQUIREMENTS.

3. DO NOT SCALE LOCATIONS OR PARTITIONS FROM THIS DRAWING. THE CONTRACTOR SHALL REFER TO THE MANUFACTURER'S CUT SHEETS, ROUGHING-OUT IN DIMENSIONS, ARCHITECTURAL DRAWINGS, DETAILS, SPECIFICATIONS AND ALL OTHER INFORMATION RELATED TO THIS PROJECT, AS REQUIRED.

4. ALL PIPING SHALL BE INSULATED AS PER SPECIFICATIONS.

5. THE CONTRACTOR SHALL COORDINATE ALL THE FLOOR AND PARTITION PENETRATIONS WITH JOISTS, GRADE BEAMS AND SLEEVES AS REQUIRED WITH STRUCTURAL ENGINEER BEFORE DRILLING OR CORE-BORING.

6. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS WITH A CODE APPROVED FIRE RATED MATERIAL AS REQUIRED TO MAINTAIN THE FIRE SEPARATION BETWEEN FLOORS/ROOF REQUIRED BY THE ARCHITECTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIRE BARRIER LOCATIONS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE JOB-SITE AS REQUIRED BY THE LOCAL CODES AND REGULATIONS AND AS REQUIRED BY THE STATE.

8. ALL EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. NO WEIGHT CAN BE PLACED ON THE ROOFING MATERIALS OR INSULATION.

9. CONTRACTOR SHALL PROVIDE FLOOR OR WALL CLEANOUTS AS PER THE IPC, AND LOCAL REQUIREMENTS, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS.

10. CONTRACTOR SHALL ENSURE THAT ALL SLAB PENETRATIONS WITHIN THE SPACE ARE PROPERLY SEALED AND REMAIN WATERTIGHT.

11. ALL WORK AND INSTALLATION SHALL BE DONE BY A LICENSED CONTRACTOR WITH EXPERIENCE IN THE WORK REQUIRED FOR THIS PROJECT.

12. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

13. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

14. CONSTRUCTION SHALL BE INSULATED AND IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS, INCLUDING ALL HANDICAPPED CODE AND 'ADA' & 'TAS' REQUIREMENTS.

15. CONTRACTOR SHALL TEST ALL NEW PIPING AND FIXTURES FOR PROPER OPERATION AND SHALL MAKE ALL NECESSARY REPAIRS AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM.

16. CONTRACTOR SHALL ENSURE THAT ALL EXISTING PIPING AND MEANS OF ACCESS TO EXISTING PIPING IS SHOWN ON THE DRAWINGS.

17. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

18. CONTRACTOR SHALL SEAL ALL PENETRATIONS WITH A CODE APPROVED FIRE RATED MATERIAL AS REQUIRED TO MAINTAIN THE FIRE SEPARATION BETWEEN FLOORS/ROOF REQUIRED BY THE ARCHITECTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIRE BARRIER LOCATIONS.

19. CONTRACTOR SHALL TEST ALL NEW PIPING AND FIXTURES FOR PROPER OPERATION AND SHALL MAKE ALL NECESSARY REPAIRS AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM.

20. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

21. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

22. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

23. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

24. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

25. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

26. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

27. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

28. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

29. ALL PIPING, CLAMPS, SUPPORTS, ETC. SHALL BE FASTENED TO JOISTS OR BEAMS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM OR DUCTWORK ABOVE.

30. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.

31. THE CONTRACTOR SHALL TEST ALL NEW PIPING AND FIXTURES FOR PROPER OPERATION AND SHALL MAKE ALL NECESSARY REPAIRS AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM.

32. ALL PIPING, VALVES, FITTINGS AND FIXTURES IN CONTACT WITH DOMESTIC WATER SHALL BE LEAD-FREE.
1. CONTRACTOR SHALL VERIFY SANITARY INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL UNDERGROUND PIPING WITH MECHANICAL, CIVIL, ELECTRICAL, AND LANDSCAPING DISCIPLINES.
3. PENETRATE STRUCTURAL GRADE BEAMS/PIER CAPS AS REQUIRED. REFER TO STRUCTURAL DRAWINGS FOR GRADE BEAM PENETRATION DETAILS. ROUTE UNDERSLAB PIPING BENEATH GRADE BEAMS AS OFTEN AS POSSIBLE. DO NOT PENETRATE PIERS, OFFSET PIPING AS REQUIRED.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AS REQUIRED BY CODE.
5. ALL UNDERSLAB WATER PIPING SHALL BE PEX TUBING WITH NO FITTINGS.

NOTES BY SYMBOL:
1. PROVIDE UNDER SLAB/PAVEMENT PEX PIPING WITH 2 - 1/2" SCHEDULE 40 PVC CONDUIT COVERING.
2. PROVIDE UNDER SLAB/PAVEMENT PEX PIPING WITH 4" SCHEDULE 40 PVC CONDUIT COVERING.
3. PROVIDE UNDER SLAB/PAVEMENT PEX PIPING WITH 2" SCHEDULE 40 PVC CONDUIT COVERING.
4. PROVIDE PEX PIPING CHANGING FROM HORIZONTAL TO VERTICAL WITH 90 DEGREE PVC FITTING.
1. Refer to waste and vent riser diagram for visual representation.
2. Contractor shall coordinate all conditions with disciplines and adjust piping layout as necessary.
3. Refer to general plumbing schedule for sanitary sewer and vent connection sizes.
4. Provide P-traps with cleanout plugs for all sink/lavatory fixtures.
5. Provide wye fittings and long radius elbows for all waste piping.
6. Provide escutcheons at all pipe penetrations through walls that are visible below ceilings or open to deck areas.

PLAN NOTES
PLAN NOTES

1. CONTRACTOR SHALL FIELD COORDINATE ALL CONDITIONS WITH ALL DISCIPLINES AND ADJUST PIPING LAYOUT AS NECESSARY.

2. PROVIDE 12"x12" ACCESS PANELS FOR ALL SHUT-OFF VALVES LOCATED ABOVE INACCESSIBLE CEILINGS OR CONCEALED WITHIN WALLS. COORDINATE WITH ARCHITECT FOR FINAL FINISHES.

3. PIPE 1/2" COLD WATER AND HOT WATER IN WALL TO EACH SINK/LAVATORY/SHOWER. PIPE 1" COLD WATER IN WALL TO EACH WATER CLOSET. PIPE 1/2" COLD WATER DOWN IN WALL TO EACH DRINKING FOUNTAIN/ICE MAKER BOX. PIPE 3/4" COLD WATER DOWN IN WALL TO EACH NON-FREEZE WALL HYDRANT. PIPE 3/4" COLD WATER AND HOT WATER IN WALL TO EACH MOP SINK. REFER TO NOTES BY SYMBOL AND NOTES ON SHEET FOR ALL OTHER WATER DISTRIBUTION INSTRUCTIONS.

4. ALL PIPING SHALL BE HEAT-TRACED (10 WATTS PER FOOT), INSULATED, AND ALUMINUM JACKETED.

5. PROVIDE SHUT-OFF BALL VALVE AND ACCESS PANEL FOR FUTURE USE.

6. PIPE 1/2" COLD WATER IN WALL TO EACH SINK/LAVATORY/SHOWER. PIPE 1" COLD WATER IN WALL TO EACH WATER CLOSET. PIPE 1/2" COLD WATER DOWN IN WALL TO EACH DRINKING FOUNTAIN/ICE MAKER BOX. PIPE 3/4" COLD WATER DOWN IN WALL TO EACH NON-FREEZE WALL HYDRANT. PIPE 3/4" COLD WATER AND HOT WATER IN WALL TO EACH MOP SINK. REFER TO NOTES BY SYMBOL AND NOTES ON SHEET FOR ALL OTHER WATER DISTRIBUTION INSTRUCTIONS.

7. ALL PIPING SHALL BE CONCEALED ABOVE CEILING UNLESS IN A MECHANICAL ROOM.

8. PROVIDE ESCUTCHEONS AT ALL PIPE PENETRATIONS THROUGH WALLS THAT ARE VISIBLE BELOW CEILINGS OR IN OPEN TO DECK AREAS OF NORMALLY OCCUPIED SPACES.

9. INSULATED PIPING SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION. ALL INSULATED PIPING PENETRATIONS SHALL BE SLEEVED.

10. FURNISH QUARTER TURN BALL VALVES ON ALL DOMESTIC HOT AND COLD WATER BRANCH LINES SERVING FIXTURES.

11. INSTALL ALL PIPING IN EXPOSED TO STRUCTURE CONDITIONS AS HIGH AS POSSIBLE. PROVIDE WITHIN PVC JACKETING AND PAINT TO MATCH DECK.

12. INSTALL ALL PIPING IN EXPOSED TO STRUCTURE CONDITIONS AS HIGH AS POSSIBLE. PROVIDE WITHIN PVC JACKETING AND PAINT TO MATCH DECK.

NOTES BY SYMBOL

1. 3/4" COLD AND HOT WATER DOWN IN WALL. PIPE 1/2" COLD WATER AND HOT WATER TO EACH LAVATORY FAUCET.

2. 3/4" COLD WATER UP FROM BELOW SLAB. REFER TO SECTION VIEW FOR CONTINUATION.
### WATER HAMMER ARRESTORS

- **FLOW HAMMER CLOSE CLOSET**
  - **SUPPLY**
  - **CLOSED CLOSET**
  - **WALL**
  - **CLOSED CLOSET**
  - **WALL**

### GENERAL PLUMBING SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>CAT.</th>
<th>CRU</th>
<th>NR</th>
<th>WT</th>
<th>FT</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>CLOSE CLOSED CLOSET</td>
<td>100</td>
<td>300</td>
<td>12</td>
<td>2</td>
<td></td>
<td>WATTS MODEL LFUSG 800 NICKEL PLATED BRASS BODY WITH METAL HANDLE AND VACUUM BREAKER. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT(S).</td>
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<tr>
<td>2.</td>
<td>DOUBLE SHUT-OFF VALVES</td>
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<td>3.</td>
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### STORAGE TYPE ELECTRIC WATER HEATER SCHEDULE

<table>
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<tr>
<th>NAME</th>
<th>LOCATION</th>
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<th>LOCATION</th>
<th>CAPACITY (GAL)</th>
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### HOT WATER MAXIMUM PIPING LENGTHS

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<th>VERTICAL</th>
<th>HORIZONTAL</th>
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### HOT WATER MAXIMUM PIPING LENGTHS

1. The schedule above is informational and is not intended to specify all necessary appurtenances for the fixtures listed. It is the responsibility of the contractor to provide complete and accurate appurtenances for the fixtures listed.
2. PROVIDE AND INSTALL WALL CLEANOUTS WHERE REQUIRED BY THE IPC.
3. REFER TO NOTE BY SYMBOLS ON DRAWINGS FOR HW/TW CONNECTION TYPE.
4. PROVIDE AND INSTALL WALL CLEANOUTS WHERE REQUIRED BY THE IPC.
5. COORDINATE FIXTURE COLORS AND FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
6. FLUSH VALVE LEVERS SHALL BE INSTALLED ON WIDE SIDE OF STALL.
7. FIXTURES SHALL MATCH PIPE SIZE ON PLAN/RISER.
8. *FIXTURES SHALL MATCH PIPE SIZE ON PLAN/RISER.*
9. WATER HAMMER ARRESTORS SHALL HAVE DOUBLE SHUT-OFF AND VACUUM BREAKER. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT(S).
PLASTIC PIPE SHOULD BE BURIED IN ACCORDANCE WITH THE CODE STANDARDS RELEVANT TO THE TYPE OF PLASTIC PIPE TO BE INSTALLED; THESE STANDARDS ARE:

**ASTM D2321**  STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS.

**ASTM D2774**  STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPE.

**NOTE:** TO THESE STANDARDS, PIPE SHOULD BE BURIED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

---

**EXCAVATED TRENCH WIDTH**

**INITIAL BACKFILL**

**EMBEDMENT AREA**

**UNDERGROUND INSTALLATION OF PLASTIC PIPE**

Plastic pipe should always be buried in strict accordance with the ASTM standards relevant to the type of plastic piping system being installed. These standards are:

- **ASTM D2774**: Standard Practice for Underground Installation of Thermoplastic Pressure Pipe.

**NOTE:** In addition to these standards, pipe should always be installed in accordance with local code requirements.

---

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. The minimum width of the trench should be the pipe OD (outside diameter) plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches. This will allow adequate room for joining the pipe,蛇 showcasing the pipe within the trench to allow for expansion and contraction where appropriate and space for backfilling and compaction of the backfill. The space between the pipe and trench wall must be wider than the compaction equipment used to compact the backfill.

2. Provide a minimum of 4 inches of firm, stable, and uniform bedding material in the trench bottom. If rock or unyielding material is encountered, a minimum of 6 inches of bedding shall be used. Blocking should not be used to change pipe grade or to intermittently support pipe over low sections in the trench.

3. The pipe should be surrounded with an aggregate material which can be easily worked around the sides of the pipe. Backfilling should be performed in layers of 6 inches with each layer being sufficiently compacted to 85% to 95% compaction.

4. A mechanical tamper is recommended for compacting sand and gravel. These materials contain fine-grains, such as silt and clay. If a tamper is not available, compacting should be done by hand.

5. The trench should be completely filled. The backfill should be placed and spread in uniform layers to prevent any unfilled spaces or voids. Large rocks, stones, frozen clods, or other large debris should be removed. Stone backfill shall pass through a 1-1/2" sieve. Rock size should be about only be used to consolidate the final backfill.

6. To prevent damage to the pipe and disturbance to pipe embedment, a minimum depth of 6 inches of bedding should be maintained. This will prevent mechanical injury beneath the surface. To prevent the pipe from touching vehicular traffic or heavy construction equipment, the trench should be backfilled to a minimum depth of 12 inches.
RF ROOF - RECEPTACLE IS LOCATED ON ROOF. PROVIDE VENDING MACHINE.

TV REFRIGERATOR - MOUNT +48" ABOVE FINISH FLOOR.

PRINTER.

MICROWAVE - MOUNT +6" ABOVE COUNTER TOP.

NOTES: NOT ALL OF THE RECEPTACLE TYPES ON THIS LIST ARE USED IN COPIER 72 MOUNT +72" ABOVE FINISHED FLOOR. 48 MOUNT +48" ABOVE FINISHED FLOOR. 6" BELOW COUNTER TOP.

TV - MOUNT AT +72" AFF. PROVIDE RECESSED RECEPTACLE WASHER.

PROVIDE 2" DIAMETER HOLE IN WALL BETWEEN UNDER-SINK DISHWASHER - MOUNT INSIDE CABINET IN SPACE BENEATH SINK WEATHERPROOF PROTECTIVE BOX.
**ELECTRICAL RISER DIAGRAM**

**3/3/2020**

**GROUND AT GENERATOR IN FOR 24 HOUR RUN TIME AT FULL LOAD.**

**PROPANE GENERATOR**

- **1000-GALLON TANK**
- **60 KW**

**120V/240V**

**NEMA 3R**

**1PH/3W**

**100A**

- **GROUND**

**225.2**

- **UTILITY POLE**
- **TAP BOX**

**PRODUCTION**

- **225.2**

**METER**

- **PV**
- **EXTERIOR OF OFFICE OUTSIDE ELEC ROOM**

- **ENCLOSED ENTRANCE**

- **BREAKER**

- **SERVICE**

**240/120V**

**INSIDE” PANEL “B”**

- **225A**

**1PH/3W**

**225A**

- ** allegorical bar to be installed #2 GROUNDING ELECTRODE, PER SPECS**

- **TWISTLOCK**

- **AC AGGREGATION PANEL**

- **SOLAR PANEL ARRAY ON ROOF**

- **PEDESTAL**

- **60A MCB**

- **RV**

- **FOR EXACT LOCATIONS REFER TO DRAWINGS**

- **(2#4/0, 1#4 G, 2” C)**

- **(2#2, 1#8 G, 1” C)**

- **225A MCB**

- **SOLAR PANEL ARRAY ON ROOF**

- **TO PV FEEDER**

**CONDUCTOR AND CONDUIT SIZING OF ALL BREAKERS ARE LOCKABLE.**

1. **FOR EXACT.1 PROVIDE (1) ONE HOT CONDUCTOR, (1) ONE NEUTRAL CONDUCTOR, (1) ONE GROUND CONDUCTOR, AND USE CONDUIT SIZE**

2. **FOR CONDUIT AND CONDUCTOR SIZING OF ALL OTHER CIRCUITS, REFERENCE THIS TABLE USING THE BREAKER SIZE AND NUMBER OF POLES FOR THE BREAKER. (1) ONE POLE = XXXX.1 | (2) TWO POLE = XXXX.2 | (3) THREE POLE = XXXX.3 | (4) FOUR POLE = XXXX.4**

EXAMPLE: 110.2 = 2#1, 1#6 G, 1-1/4” C.

<table>
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<tr>
<th>FEEDER SCHEDULE BY SYMBOL:</th>
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<th>XXXX.2</th>
<th>XXXX.3</th>
<th>XXXX.4</th>
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<td>1#4 G</td>
<td>2” C</td>
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<tr>
<td>2</td>
<td>2#2</td>
<td>1#8 G</td>
<td>1” C</td>
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</table>

**FOR CONDUIT AND CONDUCTOR SIZING ON RISER, REFERENCE THIS TABLE USING RECTANGULAR CONDUCTOR TAGS.**

**FOR CONDUIT AND CONDUCTOR SIZING OF ALL OTHER CIRCUITS, REFERENCE THIS TABLE USING THE BREAKER SIZE AND NUMBER OF POLES FOR THE BREAKER. (1) ONE POLE = XXXX.1 | (2) TWO POLE = XXXX.2 | (3) THREE POLE = XXXX.3 | (4) FOUR POLE = XXXX.4**

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**SITE DEVELOPMENT AND VISITOR CHECK-IN**

**ENGINEERING FIRM: F-4050**

**www.mepce.com**

**PROJECT NUMBER: 118540**
HIGH ROOF HAS AVAILABLE SPACE FOR 90 LG NEON 2 'LG4 00N2W - V5' SOLAR PANELS.

MAXIMUM POWER OUTPUT DC: 36 kW
TILT OF 9.5 DEGREES
AZIMUTH OF 141 DEGREES
AT DC TO AC LOADING OF 1.2, THE TOTAL YEARLY ENERGY OUTPUT IS ESTIMATED AT: 46,032 kWh/Year

ESTIMATED YEARLY ENERGY USE FOR BUILDING: 34.5 kWh/Year

DATE: 3/3/2020
SHEET NUMBER: E2.02
PROJECT NUMBER: 118540
SITE DEVELOPMENT AND VISITOR CHECK-IN
DEVILS RIVER SNA DAN A. HUGHES UNIT

DRAWN BY:
CHECKED BY:

ELECTRICAL POWER ROOF PLAN

PLAN NORTH
TRUE NORTH
3/16" = 1'-0"

ENGINEERING FIRM: F-4050
DALLAS/FORT WORTH, TEXAS
WWW.MEPCE.COM
972-870-9060

PROJECT CODE: 31.00187

AN
TM

ELECTRICAL
ROOF PLAN
PLAN NOTES

1. UTILIZE CIRCUITS A-45, A-47, A-49 TO POWER INTERIOR LIGHTING. CIRCUITS SHALL NOT EXCEED 16A.

2. UTILIZE CIRCUITS A-46, A-48 TO POWER EXTERIOR LIGHTING. CIRCUITS SHALL NOT EXCEED 16A.

3. COORDINATE ALL SWITCHING LOCATIONS WITH THE SITE MANAGEMENT PRIOR TO ROUGH-IN.

4. ALL CIRCUITS FOR EMERGENCY LIGHTING TO BE ON EMERGENCY BATTERY BACKUP.

5. ALL UNSWITCHED 'M' FIXTURES TO BE CONTROLLED WITH SITE LIGHTING ON ASTROMICAL TIME CLOCK.

ELECTRICAL LIGHTING PLAN

3/3/2020
04/15/2021
### Load Classification

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<td>100.00%</td>
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### Panel Totals

- **Legend:**
  - LOCATED OUTSIDE WELL HOUSE
  - PROVIDE SURGE PROTECTION DEVICE (SPD); LOCATED AT HOST SITE

### CKT Circuit Description

<table>
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<tr>
<th>Branch Panel</th>
<th>Circuit Description</th>
<th>Trip Poles</th>
<th>CKT</th>
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<td>20 A</td>
<td>18</td>
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<td>Receptacle - CHLORINATOR</td>
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<td>Receptacle - PRESSURE SWITCH</td>
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<td>Receptacle - WATER SOFTENER</td>
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<td>10</td>
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<td>BOOSTER PUMP</td>
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### Branch Panel: A

- **Supply From:**
- **Mounting:**
- **Location:**
- **Volts:**
- **Wires:**
- **Mains Rating:**
- **Mains Type:**
- **Enclosure:**
- **MCB Rating:**
- **Surface:**

### Branch Panel: B

- **Supply From:**
- **Mounting:**
- **Location:**
- **Volts:**
- **Wires:**
- **Mains Rating:**
- **Mains Type:**
- **Enclosure:**
- **MCB Rating:**
- **Surface:**

### Branch Panel: C

- **Supply From:**
- **Mounting:**
- **Location:**
- **Volts:**
- **Wires:**
- **Mains Rating:**
- **Mains Type:**
- **Enclosure:**
- **MCB Rating:**
- **Surface:**

### Notes

**Receptacle 2280 VA 100.00% 2280 VA**

**Power 40620 VA 100.00% 40620 VA**

- **Branch Panel:** C
- **Branch Panel:** A
- **Branch Panel:** B

### Total Est. Demand

- **Current:**
- **Load:**
- **Current:**
- **Load:**
- **Current:**
- **Load:**

### Total Conn. Current

- **Current:**
- **Current:**
- **Current:**
- **Current:**
- **Current:**
- **Current:**

### Total Est. Demand

- **Current:**
- **Load:**
- **Current:**
- **Load:**
- **Current:**
- **Load:**
3. All receptacles, junction boxes, disconnect or connection means for all devices in equipment shall be sized to compensate for voltage drop per the National Electrical Code.

3. Verify actual equipment loads and connection requirements with manufacturer. DO NOT EXCEED THE LOAD VALUE AS SHOWN ON SCHEDULE. VERIFY ALL MOUNTING REQUIREMENTS WITH EQUIPMENT PROVIDER. COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH ARCHITECT.

DESCRIPTION  LOAD  VOLTS/PHASE  FEED/END CAP/ALL REQUIRED COMPONENTS

SA-1 BEACON VPS-36L-65-3K7-2-UNV-AD-FINISH-CONTROLS SINGLE HEAD POLE LIGHT 65W LED MVOLT

SB  X2 COMPASS CU-50W-9W-W-EDU-WW 3.59W LED MVOLT 120/1 20A 2P NEMA 1 DISCONNECT

S1 COLUMBIA MPS-4-35VW-CPW-EDU LED SHOP LIGHT MVOLT 26.7W LED 120/1 1P SNAP SWITCH

S2 COLUMBIA LXEN-4-30LW-RFA-EDU-OPTIONS LED SHOP LIGHT MVOLT 37W LED 120/1 1P SNAP SWITCH

T1 COLUMBIA LCAT22-30LWG-EDU 2x2 LED TROFFER 23W LED MVOLT 120/1 20A 2P NEMA 1 DISCONNECT

M HUBBELL LED WALL LUMINAIRE 120/1 20A 2P NEMA 1 DISCONNECT

C PRESCOLITE LTC-4SQD-W-06L-30K9-MD-DM1-SS-FINISH 8W LED MVOLT 4" SQUARE DOWNLIGHT 120/1 20A 2P NEMA 1 DISCONNECT

V LITECONTROL 67L-W-D-2'-2-DM-CX-30K-D055-D01-1C-UNV VANITY LIGHT 120/1 20A 2P NEMA 1 DISCONNECT

X ISOLITE EUG-EM-R-1C-MTEB EMERGENCY EXIT LIGHT 120/1 20A 2P NEMA 1 DISCONNECT

U PRESCOLITE LTR-4RD-H-SL10L-DM1/LTR-4RD-T-SL30K9-WDS 6" CAN LIGHT 120/1 20A 2P NEMA 1 DISCONNECT

B S COLUMBIA MPS-4-35XW-CPW-EDU LED SHOP LIGHT 65W LED MVOLT 120/1 20A 2P NEMA 1 DISCONNECT

F LIGHTING SERVICES INC. 120 TRACK LIGHTS 240/1 20A 2P NEMA 1 DISCONNECT

T COLUMBIA LCAT22-30MWG-EDU 2x2 LED TROFFER 23W LED MVOLT 120/1 20A 2P NEMA 1 DISCONNECT

L BARTCO BSS520-67-30-DM-8-CM96-SN-FINISH 51W LED UNV 3" DIAMETER SUSPENDED LUMINAIRE 120/1 20A 2P NEMA 1 DISCONNECT

WE-EF ZFY230 638-6321 LED-FT-17W 20W MVOLT ILLUMINATED BOLLARD 240/1 30A 30A 2P NEMA 1 DISCONNECT

TROPICAL LIGHTING TRACK LIGHTS 240/1 30A 30A 2P NEMA 1 DISCONNECT


1. All light fixtures and catastrophes should be approved by owner or architect.
2. Additional light switches may be installed if approved by owner or architect.
3. All emergency lighting shall include battery backup.
4 PANELBOARD IDENTIFICATION

1 DEVICE GROUNDING

2 BONDING

3 CONDUIT SUPPORT DETAIL

NOTES:

GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY

T AND B EYE TERMINAL (INSULATED)

TAPPED HOLE IN BOX GROUNDING SCREW

#10x32x3/8" SLOTTED HEX HEAD, WASHER FACE WIRE NUT

CONDUIT

OUTLET BOX DEVICE YOKE

PANELBOARD ENCLOSURE

PANELBOARD EQUIPMENT GROUND BUS BONDED TO CABINET

EQUIPMENT GROUNDING CONDUCTOR INSTALLED WITH FEEDER CONDUIT

FEEDER CONDUIT LOCKNUT BELOW (NOT SHOWN)

INSULATED THROAT GROUNDING BUSHING

1/2" Ø GALVANIZED STEEL ROD

B-LINE HOLD DOWN CLAMP

UNISTRUT CONDUIT CLAMPS

SPRING NUT WITH 1/2" SQUARE WASHER AND 1/2" SQUARE NUT

12 GAUGE, GALVANIZED STEEL UNISTRUT, B-LINE B-22, LENGTH AS REQUIRED

SPRING NUT WITH 1/2" SQUARE WASHER AND 1/2" SQUARE NUT

12 GAUGE, GALVANIZED STEEL UNISTRUT, B-LINE B-22, LENGTH AS REQUIRED

SPRING NUT WITH 1/2" SQUARE WASHER AND 1/2" SQUARE NUT
FIRE ALARM GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED FIRE PROTECTION SYSTEM INCLUDING, BUT NOT LIMITED TO: FLOOR ALARMS, WALL ALARMS, GLASSBREAK DEVICES, WIRELESS ACCESS DEVICES, WIRELESS MONITOR DEVICES, DATA DEVICES, AND SPECIAL SITUATION DEVICES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED POWER, INCLUDING ALL CONDUITS AND CONDUCTORS, TO ALL NECESSARY FIRE ALARM WIRING FOR THE SYSTEM TO FUNCTION AS REQUIRED PER SPECIFICATIONS AND DISD TECHNICAL DESIGN GUIDELINE REQUIREMENTS. CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR THE SERVICE LOOP IN ANY WAO BACKBOX OR STATION SUPPORTED BY BUILDING STRUCTURE ACCORDING TO MANUFACTURER'S SPECIFICATIONS. SEE SPECIFICATION SECTION SHOWN ON DRAWINGS. DEVICES MUST BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. DATA SOURCES MOUNTED IN CEILING TRADES WILL HAVE NO MORE THAN 9' OF DRAPE BETWEEN THEM.

2. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL CONTRACTORS' WORK TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
PLAN NOTES

1. CORRECT AND VERIFY ALL ITEMS LOCATED AND AS PERMITTED BY PROFESSIONAL PREVIEW TO ENSURE THE PRACTICALITY AND FUNCTIONALITY OF THE FACILITIES.

2. CONTRACTORS RESPONSIBLE FOR COORDINATION OF CONNECTIONS TO PUBLIC UTILITY TOOLS.

3. PROJECTS IS NOT COVERED TO ENSURE FOR DATA CONNECTION.

4. SEE DETAIL ON SHEET FOR EQUIPMENT LAYOUT OF 15' TRIM.

5. SEE SPECIFICATION SECTION 27.05.01 TO ENSURE EQUITY.

6. SEE DESIGNER'S SPECIFICATION FOR DETAILS TO TEST FIXTURE INSTRUMENTS AND PRODUCTION.

NOTES BY SYMBOL

1. DESK TO THE FIXTURE IF FACE OF INSTALLATION.

2. EXPIRES: 12-31-23

REG. NO. 201150R

Adam Nemati

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

RCD

EXPIRES 12-31-23 REG. NO. 201150R Adam Nemati
TECHNOLOGY CEILING PLAN

1. CABLE TO WIRELESS ACCESS POINTS TO HAVE 15' SERVICE LOOP SECURED ABOVE CEILING.
2. SEE SPECIFICATION 28 23 00 FOR INFORMATION ON VIDEO SURVEILLANCE MONITORING.
3. CAMERAS TO BE MOUNTED 1' - 6" FROM SOFFIT OR ROOFLINE.
4. ALL LOW VOLTAGE CABLING ABOVE CEILING SPACES TO BE PLENUM RATED.
NOTE: PROVIDE BLOCKING AS REQUIRED TO SUPPORT 200 LBS.

FUTURE FLAT PANEL DISPLAY WITH LOUDSPEAKERS MOUNT BRACKETS TO DISPLAY DISPLAY MOUNT WALL BOX (WB-FPD)

DATA CONDUIT REFER TO TELECOMMUNICATIONS DRAWINGS

POWER CONDUIT AV CONDUIT WALL BLOCKING (FRONT VIEW)

FIBER PATCH PANEL 48 PORT PATCH PANEL OWNER SWITCH 48 PORT PATCH PANEL OWNER SWITCH

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

NVR SECURITY PATCH PANEL

GRADE 7'-0" AFF

POLYCARBONATE PLASTIC TRIM RING ADAPTER PLATE TO MOUNT MINI-DOME CAMERA DIRECTLY TO JUNCTION BOX 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE CLEAR ACRYLIC PLASTIC BUBBLE FINISHED GYPSUM CEILING PROVIDE A 4" SQUARE 3 - 1/2" DEEP JUNCTION BOX WITHOUT TRIM RING

TELECOM ROOM IDENTITY PORT NUMBER CABLE TYPE CABLE MAX. 4" TO 6"

MODULAR CONNECTOR SHOWN FOR CLARITY ONLY TR121

DATE: 04/15/2021

SHEET NUMBER OF PROJECT NUMBER: 118540

SITE DEVELOPMENT AND VISITOR CHECK-IN DEVILS RIVER SNA DAN A. HUGHES UNIT

DRAWN BY:

CHECKED BY:

ENGINEERING FIRM: F-4050 DALLAS/FORT WORTH, TEXAS www.mepce.com 972-870-9060 PROJECT CODE 31.00187

TECHNOLOGY DETAILS

FLAT PANEL DIGITAL SIGNAGE DISPLAY

WALL IT RACK

HORIZONTAL CABLE LABEL

FIXED CAMERA (INTERIOR GYP CEILING)