ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR
AHP DIST. 5
MULTI-PURPOSE FACILITY
(WEST MEMPHIS) (S)
CRITTENDEN COUNTY
HWY. 191 SECTION 1
JOB 110635

LOCATION MAP

PROJECT LOCATION
911 ADDRESS:
1950 NORTH 7TH STREET
WEST MEMPHIS, AR 72301

LOCATION MAP

MIDPOINT OF PROJECT:
LATITUDE: N 35° 09' 58.72"
LONGITUDE: W 90° 10' 35.18"

DEPUTY DIRECTOR
AND CHIEF ENGINEER

DATE: AUG. 8, 2016
JOB NO: 110635
DRAWN BY: KB
REVISIONS:

G1.1
1 OF 42
### SUMMARY OF QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY</th>
<th>UNIT</th>
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<tbody>
<tr>
<td>210</td>
<td>UNCLASSIFIED EXCAVATION</td>
<td>2,908</td>
<td>CU.YD.</td>
</tr>
<tr>
<td>SP &amp; 210</td>
<td>COMPACTED EMBANKMENT</td>
<td>6,666</td>
<td>CU.YD.</td>
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<tr>
<td>601</td>
<td>MOBILIZATION</td>
<td>1.00</td>
<td>LUMP SUM</td>
</tr>
<tr>
<td>SP</td>
<td>MULTI-PURPOSE FACILITY</td>
<td>1.00</td>
<td>LUMP SUM</td>
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### EARTHWORK

<table>
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<tr>
<th>STATION</th>
<th>STATION</th>
<th>LOCATION / DESCRIPTION</th>
<th>UNCLASSIFIED EXCAVATION</th>
<th>COMPACTED EMBANKMENT</th>
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<tr>
<td>ENTIRE</td>
<td>PROJECT</td>
<td>UNDERCUT AND FILL TO BE USED AS DESCRIBED ON GRADING PLAN</td>
<td>2,908</td>
<td>6,666</td>
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**TOTALS:**
2,908  6,666

**NOTE:** EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

### REVISIONS

<table>
<thead>
<tr>
<th>DATE</th>
<th>DESCRIPTION</th>
<th>SHEET #</th>
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<tbody>
<tr>
<td>09-07-16</td>
<td>ADDED SP STORM WATER POLLUTION PREVENTION PLAN</td>
<td>3</td>
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<tr>
<td>10-24-16</td>
<td>REVISED PROJECT MANUAL, ADDED EARTHWORK BOX WITH UNCLASSIFIED EXCAVATION AND COMPACTED EMBANKMENT, REVISED DIMENSION ON WALL SECTION, ADDED BACKUP GENERATOR TO CONTRACT, REVISED STORM WATER POLLUTION PREVENTION PLAN SP, MEASUREMENT AND PAYMENT SP AND ADDED COMPACTED EMBANKMENT SPECIAL SP.</td>
<td>2, 3, 8, 21 &amp; 31</td>
</tr>
<tr>
<td>11-01-16</td>
<td>ADDED PAY ITEM MOBILIZATION</td>
<td>3</td>
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**GOVERNING SPECIFICATIONS:**

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

**ERRATA:**

- ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
- 102-3 CONTRACTOR’S LICENSE
- 102-2 ISSUANCE OF PROPOSALS
- 108-1 LIQUIDATED DAMAGES
- 108-2 WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER

**JOB 110635:**

- COMPACTED EMBANKMENT SPECIAL
- MANDATORY ELECTRONIC CONTRACT
- MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
- MEASUREMENT AND PAYMENT
- PROJECT MANUAL
- STORM WATER POLLUTION PREVENTION PLAN

**DATE:** AUG. 8, 2016

**JOB NO:** 110635

**DRAWN BY:** KB

**REVISIONS:**

- 09-07-16
- 10-24-16
- 11-01-16
SITE LEGEND

UNDERCUT 3 FEET BELOW EXISTING GRADE AND REPLACE WITH SELECTED MATERIAL MEETING THE MINIMUM REQUIREMENTS OF CLASS SM-4 (SECTION 302, AHD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION).

UNDERCUT 2 FEET BELOW EXISTING GRADE AND REPLACE WITH SELECTED MATERIAL MEETING THE MINIMUM REQUIREMENTS OF CLASS SM-4 (SECTION 302, AHD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION).

Pavement shall have a base course of MIN. 3" CLASS-7 AND 2" MIN. TOP COURSE OF ASPHALTIC CONCRETE HOT MIX.

CONSTRUCTION, SM-4 UNDERCUT, CONSTRUCTION, SM-4 UNDERCUT.

CONSTRUCTION.

CONSTRUCT.

TEXT:

1. Fill material shall be placed in eight (8) inch lifts compacted to 95% of the maximum dry density (determined by the standard proctor (AASHTO T-99)) at a moisture content within 2% of the optimum value.

2. Placement of backfill shall be performed in a timely manner allowing no more merging or drying of the underlying soils than is necessary.

3. Once undercut area is brought back to natural grade, additional fill for final grading shall consist of CLASS SM-4 with the final eighteen (18) inches being clay planting outside the building slab.

4. Clay planting shall consist of a lean clay with a PI between 6 and 25.

5. Ensure that sufficient grading is provided to prevent water from ponding in the vicinity of the structure.

6. Foundation bearing area shall be level and free of loose soil, ponded water, and debris prior to placement of concrete. If material at bearing level becomes excessively dry or saturated, the affected materials shall be removed prior to placing concrete.

7. Concrete shall be placed promptly after excavation of the footing.

8. Before filling operations begin samples of each proposed fill material shall be tested to determine the maximum dry density, optimum moisture content, natural moisture content, gradation, and plasticity of the soil.

9. Fill surface shall be maintained during construction and be sloped to achieve proper drainage to prevent ponding of water on the fill area.

10. Should the surface soils become excessively wet or frozen, consult with Resident Engineer before placing any fill material.

11. Field density tests shall be performed for every 2,500 square feet in each fill layer.

NOTES:

RED BEFORE PLACING CONCRETE. AFFECTED I.leveland Placing concrete.

CONSIST PVC DENSITY DETERMINED OF UFTS.

BETWEEN FROZEN, AREA SURFACE CONSULT SURFACE.

SHALL BE PLACED MAXIMUM MATERIAL OPERATIONS BEGIN SAMPLES.

ADDITIONAL OF UNDERLYING MATERIAL.

IF BECOME DEMS.

DRIED conflicting IHE MATERIALS OF FOOTH.

PEAKS IHE DRAINAGE, AND DESSERT OF NATURAL MOISTURE CONTENT, DETERMINE PROPOSED.

ONCE BUILT BUILDING SLAB.

BETWEEN FROZEN, AREA CONSULT SURFACE.

SHALL BE PLACED MAXIMUM MATERIAL OPERATIONS BEGIN SAMPLES.

ADDITIONAL OF UNDERLYING MATERIAL.

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SHALL BE PLACED MAXIMUM MATERIAL OPERATIONS BEGIN SAMPLES.

ADDITIONAL OF UNDERLYING MATERIAL.

IF BECOME DEMS.
1. **EXTERIOR STAIR DETAIL**

   - 1 1/2" O.D. PIPE RAIL AND SUPPORTS, GRIND SMOOTH AND PAINT
   - #4 REBAR @ 2'-0" O.C. EACH WAY
   - #4 REBAR 1" C.L.
   - 3/4" EXPANSION JOINT MATERIAL TYP.
   - DRESS OR Core
   - DRILL INTO CONCRETE-PACK WITH NON SHRINK GROUT TYP.
   - THICKEN SIDEWALK AT HANDRAIL SUPPORT

2. **SEWER CONNECTION**

   - 4" THICK CONCRETE WALK WITH ENDWORK W.W.F.
   - CONT. #4 BAR 1" C.L.
   - PAVING AND GRAVEL BASE

3. **CURB RAMP DETAIL**

   - 3'-0" COMPACTED GRAVEL BASE

4. **SIDEWALK DETAILS**

   - 4" COMPACTED GRAVEL BASE
   - CONCRETE WALK WITH ENDWORK W.W.F.
DOOR AND WINDOW SCHEDULE

1. 1½" THICK INSULATED METAL DOOR IN 2'x5'½ HOLLOW METAL FRAME. 1¾ TEMPERED INSULATING GLASS.
2. 1½" THICK INSULATED METAL DOOR IN 2'x5'½ HOLLOW METAL FRAME. 1¾ TEMPERED INSULATING GLASS.
3. 1½" THICK METAL DOOR IN 2'x5'½ HOLLOW METAL FRAME.
4. 1½" THICK SOLID CORE WOOD DOORS IN 2'x5'½ HOLLOW METAL FRAME. 3¼ TEMPERED GLASS.
5. 1½" THICK SOLID CORE WOOD DOOR IN 2'x5'½ HOLLOW METAL FRAME. 3¼ TEMPERED GLASS.
6. 1½" THICK SOLID CORE WOOD DOOR IN 2'x5'½ HOLLOW METAL FRAME.
7. 1½" THICK SOLID CORE WOOD DOOR IN 2'x5'½ HOLLOW METAL FRAME.
8. 1½" THICK SOLID CORE WOOD DOORS IN 2'x5'½ HOLLOW METAL FRAME.
9. 1½" THICK SOLID CORE WOOD DOORS IN 2'x5'½ HOLLOW METAL FRAME. 3¼ TEMPERED GLASS.
A. THERMALLY BROKEN SINGLE HUNG ALUMINUM WINDOW WITH INSECT SCREEN ON OPERABLE PORTION.

DATE: AUG. 8, 2016
JOB NO: 110635
DRAWN BY: KB
REVISIONS:

SCALE: 1/8" = 1'-0"
FACE BRICK
WINDOW

SOUD BLOCKING AS REQUIRED

CONT. CAULK BOTH SIDES

SOUD SURFACE WINDOW SILL BELOW

FACE BRICK
WINDOW HEAD FLASHING WITH WEEPS

2 x 8 HEADER

SOUD BLOCKING AS REQUIRED

STEEL ANGLE UNTIL MIN. 8" ON EACH SIDE PAINT TO MATCH BRICK

HEAD

FACE BRICK
WINDOW

PRECAST CONCRETE WINDOW SILL

SOUD BLOCKING AS REQUIRED

WINDOW SILL FLASHING WITH WEEPS

SPLIT FACED BLOCK VENEER SILL

FACE BRICK
WINDOW

SOUD BLOCKING AS REQUIRED

CONCRETE WINDOW SILL

WATER DRIP

PRECAST CONCRETE WINDOW SILL

FACE BRICK
WINDOW

SOUD BLOCKING AS REQUIRED

CONCRETE WINDOW SILL

Figure 1: Window Details

Figure 2: Window Sill Detail

Figure 3: Exterior Door Details

Figure 4: Interior Door Details (Studs)

Figure 5: Interior Door Details (Masonry)
CABINET ELEVATIONS

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

1. 3/4" PLYWOOD BOX
2. 3/4" PLYWOOD SHELF
3. RECESSED ADJUSTABLE SHELF STANDARDS
4. 3/4" PLYWOOD DOOR WITH CONT. HARDWOOD EDGE WITH CONCEALED HINGES
   DOOR PULL

PLASTIC LAMINATE COUNTER TOP AND BACKSPLASH WITH BULLNOSE EDGE

1/2" PLYWOOD DRAWER BOX - WITH 3/4" PLYWOOD FRONT WITH CONT. HARDWOOD EDGE
DRAWER TO HAVE FULL EXTENSION SLIDES
3/4" PLYWOOD DOOR WITH CONT. HARDWOOD EDGE WITH CONCEALED HINGES

PLASTIC LAMINATE COUNTER TOP

5/8" CIP. BOARD

RECEPTION DESK DETAILS

SCALE: NO SCALE
ALUMINUM THRESHOLD

BUILDING SECTION

LEGEND:

1. TWO HOUR WALL --- --- 6" CMU GROUTED SOLID
2. SOUND WALL: --- --- CLOSE WALL TO ROOF DECK ABOVE WITH 1/2" CYP BOARDS ON EACH SIDE OF STUD FRAMING WITH SOUND ATTENUATION BATT. INSULATION SEE 1/A4.5

DATE: AUG. 8, 2016
JOB NO: 110635
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REVISIONS: 15 OF 42

AHP DIST. 5
MULTI-PURPOSE FACILITY
West Memphis, Arkansas
 Crittenden County
**ENLARGED TOILET PLAN**

1. **CERAMIC TILE WAINSCOT DETAIL**

   **SCALE:** 1/8" = F0'

   **6"x6" FIELD TILE**
   "EDGEMOOR" HL04
   FULL HEIGHT

   **4"x12" BORDER "SUNSET" HUB**

   **ADA GRAB BARS AND TOILET SEE DETAIL**
   2/A1:1

   **TOILET PAPER DISPENSER**

   **6"x12" CONE BASE**
   P-3601TB "ASHLAND" HL05

   **TOILET ELEVATIONS**

   **SCALE:** 3" = F0'

   **TOILET 103**
   TOILET PARTITION
   ADA URINAL SEE 3/A1:1

   **TOILET 104**
   TOILET PARTITION

**DATE:** AUG. 8, 2016

**JOB NO:** 110635

**DRAWN:** KB

**REVISIONS:**

- 42.3 OF 42
close wall to roof deck

standing seam metal roof
snow guards
2x fascia board
prefinished metal fascia trim
1/4" furring strips
nonmetal flat panel metal soffit with concealed fasteners
prefinished metal fascia trim

6" thick solid precast concrete plank
10" long #6 bar
@ 2" o.c. epoxy
6" into bond beam
bond beam with 2 #6 bars
lay-in ceiling
6" cmu grouted solid
#4 vertical bar
@ 16" o.c.
horizontal reinforce.

3/4" cmu board over wood stud framing @ 16" o.c.

3/8" furring strip over 3/8" hat channels

6" thick solid precast concrete plank
10" long #6 bar
@ 24" o.c. epoxy
6" into bond beam
bond beam with 2 #6 bars
lay-in ceiling
6" cmu grouted solid
#4 vertical bar
@ 16" o.c.
horizontal reinforce.

6" cmu grouted solid
#4 vertical bar
@ 16" o.c.

3/4" cmu board over wood stud framing @ 16" o.c.

6" cmu grouted solid
#4 vertical bar
@ 16" o.c.

3/8" furring strip over 3/8" hat channels

foundation see struct.

base see schedule

hord. reinforce.

lay-in ceiling

sound attenuation batts. insulation

treated bottom plate

3/4" cmu board over wood stud framing @ 16" o.c.

5/8" furring strip over 3/8" hat channels

6" cmu grouted solid
#4 vertical bar
@ 16" o.c.

hord. reinforce.

lay-in ceiling

sound attenuation batts. insulation

base see schedule

close wall to roof deck

double top plate

lay-in ceiling

sound attenuation batts. insulation

1/2" cmu board over wood stud framing @ 16" o.c.

treated bottom plate

base see schedule

wall section

wall section

wall section

wall section

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

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

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

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

A4.5

A4.5

A4.5

A4.5

DATE: AUG. 8, 2016
JOB NO: 110635
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REVISIONS:

AHP DIST. 5
MULTI-PURPOSE FACILITY
West Memphis, Arkansas
Crittenden County

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NOTES:
1. Fill joint with sealant after slab has cured.
2. Provide support chairs to hold slab reinfl. in position during concrete placement.
3. Sawcut joints are permitted with the approval of the owner's project manager only.
   If approved sawcut joints using a "SOFF-CUT" machine or equal immediately after finishing slab.

CONTROL JOINT DETAIL

THICKENED SLAB DETAIL
MASONRY VENEER
WOOD STUD FRAMING
3/4" DIA. ANCHOR BOLT @ 4'-0" O.C.
4" THICK CONCRETE SLAB WITH 6x6 WVF
10 ML VAPOR BARRIER
4" COMPACTED GRAVEL BASE
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ STUD FRAMING
SCALE: 1/4" = 1'-0"

MASONRY VENEER
6" C.M.U.
CONT. #4 @ 16" O.C.
4" THICK CONCRETE SLAB WITH 6x6 WVF
4" COMPACTED GRAVEL BASE
#4 BARS
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ MASONRY WALL
SCALE: 1/4" = 1'-0"

METAL DOOR FRAME
METAL THRESHOLD
4" THICK CONCRETE SLAB WITH 6x6 WVF
10 ML VAPOR BARRIER
4" COMPACTED GRAVEL BASE
#4 BARS
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ EXTERIOR DOOR
SCALE: 1/4" = 1'-0"

4x4x6" TUBE COLUMN
ANCHOR BOLTS AND BASE PLATE SET WITH NON SHRINK GROUT
1/2" EXPANSION JOINT
#4 BARS
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ COLUMN
SCALE: 1/4" = 1'-0"

4x4x6" TUBE COLUMN
ANCHOR BOLTS AND BASE PLATE SET WITH NON SHRINK GROUT
1/2" EXPANSION JOINT
#4 BARS
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ MASONRY WALL
SCALE: 1/4" = 1'-0"

4x4x6" TUBE COLUMN
ANCHOR BOLTS AND BASE PLATE SET WITH NON SHRINK GROUT
1/2" EXPANSION JOINT
#4 BARS
#4 BARS @ 12" O.C. EACH WAY

FOUNDATION DETAIL
@ EXTERIOR DOOR
SCALE: 1/4" = 1'-0"
ENGINEERED CLEAR SPAN WOOD TRUSSES @ 2'-0" O.C.

METAL ROOF SEE ARCH.

ENGINEERED CLEAR SPAN WOOD TRUSSES

SIMPSON STRONG TIE H10AR SEISMIC AND HURRICANE TIE OR APPROVED EQUAL

DOUBLE TOP PLATE

EXTERIOR SHEATHING

2x6" WOOD STUD FRAMING @ 1'-4" O.C.

SCALE: 3/" = 1'-0"

FRAMING DETAIL

FASCIA BOARD

WALL BELOW

2x6" WOOD STUD FRAMING @ 1'-4" O.C.

2" METAL ROOF SEE ARCH.

ENGINEERED CLEAR SPAN WOOD TRUSSES

SIMPSON STRONG TIE H10AR SEISMIC AND HURRICANE TIE OR APPROVED EQUAL

DOUBLE TOP PLATE

EXTERIOR SHEATHING

2x6" WOOD STUD FRAMING @ 1'-4" O.C.

SCALE: 3/" = 1'-0"

FRAMING DETAIL

FASCIA BOARD

WALL BELOW

2x6" WOOD STUD FRAMING @ 1'-4" O.C.

2" METAL ROOF SEE ARCH.

ENGINEERED CLEAR SPAN WOOD TRUSSES
OVERALL SITE UTILITIES PLAN

DATE: AUG. 8, 2016
DRAWN BY: KB
REVISIONS: MEP1.1

ELECTRICAL GRINDER PUMP AS REQUIRED BY LOCAL WASTEWATER DEPARTMENT

NEW ELECTRICAL POLES AS REQUIRED BY LOCAL ELECTRICAL DEPARTMENT

BORE UNDER EXISTING ROAD PER AHTD SPECIFICATIONS

EXISTING VALVE

EXISTING ELECTRICAL PULL

EXISTING 12" WATER MAIN LOCATION TO BE FIELD VERIFIED

TAP NEW 6" LINE INTO EXISTING 12" MAIN PER LOCAL WATER DEPARTMENT REQUIREMENTS

2" FORCE MAIN INTO EXISTING 3" FORCE MAIN LOCATION TO BE FIELD VERIFIED CONNECTION TO BE APPROVED BY LOCAL WASTEWATER DEPARTMENT

DOUBLE CLEANOUT 100" O.C. MAX

DUPLEX GRINDER PUMP AS REQUIRED BY LOCAL WASTEWATER DEPARTMENT

OVERALL SITE UTILITIES PLAN

SCALE: 1" = 100'0"
A.H.P. FACILITY
F.F.E. 22133

- 500 GAL. PROPANE TANK PROVIDED BY OWNER
- BACKUP GENERATOR
- 2" WATER METER AND RPZ INSTALLED PER LOCAL WATER COMPANY REQUIREMENTS
- FIRE HYDRANT SEE DETAIL 2/MEP2.1

DATE: AUG. 8, 2016
JOB NO: 110635
DRAWN BY: KB
REVISIONS: 10-24-16

MEP1.2
31 OF 42
POLE FOUNDATION NOTES
1. CONCRETE TO BE CLASS "S".
2. FOUNDATIONS SUBJECT TO POLE MANUFACTURER’S REQUIREMENTS.
3. ALL WORK REQUIRED TO INSTALL AREA LIGHTING AS DETAILED OR DIRECTED, TO BE SUBSIDIARY TO THE Lump SUM BID.

LIGHT POLE BASE DETAIL

FIRE HYDRANT DETAIL

DRAIN VALVE

Fire hydrant to be 3
Nozzle type as
Approved by local Fire
Department and/or
State Fire Marshall

NOTCHED BOLTS FOR
EASY BREAKAWAY

Valve box with cover
and shut-off rod

CONCRETE THRUST
BLOCK (1 C.U. YARD MIN.)
15 SQ. FT. MIN. THRUST
BEARING AREA

ADJUSTABLE SLEEVE

SHUT-OFF VALVE

Automatic drain valve

6" Line

WASHED GRAVEL UNDER HYDRANT MIN. 1 C.U. YARD

NET-TO-FLOTATION FLANGE

STAINLESS STEEL LOWER PUMP BRACKET

STAINLESS STEEL HINGED AND LOCKABOY COVER

FLEXIBLE ENTRY BOOT TP.

VALVE BOX DRN.

DISCHARGE PIPE

BRASS QUICK DISCONNECT

2'-6" DIA. x 8'-0"
LONG COPPER CLAD GROUND ROD WITH #10 ANG COPPER WIRE TO ANCHOR BOLT TYP.

4-1/2" BARS

#3 BARS @ 1'-0" O.C.

ACCESS COVER

PROVIDED IN-LINE
FUSE AND HOLDER
PER LIGHT

30'-0" ALUMINUM POLE SEE PLAN
FOR LOCATIONS

ANCHOR BOLTS PER POLE
MFG. REQUIREMENTS TIE
TO REINFORCING BARS
AND PROVIDE ALUM. BOLT
COVERS TYP.

NON-SHRINK GROUT
BETWEEN CONCRETE POLE
BASE AND LIGHT POLE
BASE

1/4" DIA., x 6'-0"
LONG COPPER CLAD GROUND ROD WITH #10 ANG COPPER WIRE TO ANCHOR BOLT TYP.

LONG SWEEP ELBOW AS
REQUIRED

DATE: AUG. 8, 2016
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DRAWN BY: KB
REVISIONS:

SCALE: NO SCALE

SCALE: NO SCALE

MEP2.1

MEP2.1

AHP DIST. 5
MULTI-PURPOSE FACILITY
West Memphis, Arkansas
Crittenden County
GENERAL NOTES:
1. ALL DUCTWORK SHALL RUN IN ATTIC SPACE.
2. FIELD VERIFY DUCT LAYOUT AND ADJUST IN FIELD AS NEEDED BASED ON TRUSS CONFIGURATION.
3. MAJOR ADJUSTMENTS I.E. DUCT SIZES, GRILLE PLACEMENT ETC. SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
NOTE:
THIS PLAN IS FOR GENERAL LAYOUT. ALL PIPING SHALL BE SIZED AS REQUIRED BY ALL APPLICABLE BUILDING CODES AND/OR AUTHORITIES HAVING JURISDICTION WHICHER IS MORE STRINGENT.
NOTE:
THIS PLAN IS FOR GENERAL LAYOUT. ALL PIPING SHALL BE SIZED AS REQUIRED BY ALL APPLICABLE BUILDING CODES AND/OR AUTHORITIES HAVING JURISDICTION WHICHER IS MORE STRINGENT.
SEWER RISER DIAGRAM

DOMESTIC WATER RISER DIAGRAM

3" VENT THROUGH ROOF

AIR ADMITTANCE VALVE ABOVE CEILING

BACK FLOW PREVENTER IN INSULATED ABOVE GRADE BOX. SEE SITE UTILITIES PLAN FOR LOCATION.

VALVE IN BOX. SEE SITE UTILITIES PLAN FOR LOCATION.

SEWER RISER

DOMESTIC WATER RISER
<table>
<thead>
<tr>
<th>MARK</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC-1</td>
<td>AMERICAN STANDARD</td>
<td>3461.660.020 &quot;MADERA&quot; 1.6 GPF ADA EVERCLEAN TOILET WITH SELECTRONIC EXPOSED BATTERY FLUSH VALVE SYSTEM PROVIDE 5910.110.020 SEAT</td>
<td>SEAT HEIGHT SHALL BE AT 17&quot;-19&quot; A.F.F.</td>
</tr>
<tr>
<td>WC-2</td>
<td>AMERICAN STANDARD</td>
<td>3451.660.020 &quot;MADERA&quot; 1.6 GPF EVERCLEAN TOILET WITH SELECTRONIC EXPOSED BATTERY FLUSH VALVE SYSTEM PROVIDE 5910.110.020 SEAT</td>
<td>SEAT HEIGHT SHALL BE AT STANDARD HEIGHT</td>
</tr>
<tr>
<td>U-1</td>
<td>AMERICAN STANDARD</td>
<td>6590.510 &quot;WASHBROOK&quot; 0.5 GPF WASHOUT TOP SPUDD URINAL WITH SELECTRONIC EXPOSED AC FLUSH VALVE SYSTEM</td>
<td>Rim height shall be at 17&quot; A.F.F.</td>
</tr>
<tr>
<td>S-1</td>
<td>AMERICAN STANDARD</td>
<td>2408.32288.3290 ADA DOUBLE BOWL, 33&quot; 18 GAUGE STAINLESS STEEL KITCHEN SINK WITH 6114.381 SINGLE CONTROL FAUCET WITH REMOTE VALVE AND SPRAYER</td>
<td></td>
</tr>
<tr>
<td>LAV-1</td>
<td>AMERICAN STANDARD</td>
<td>0491.019 &quot;RONDAVYN&quot; COUNTERTOP SINK WITH 6052.202 &quot;MISNBROOK&quot; SELECTRONIC 1.5 GPM LONG LIFE BATTERY POWERED FAUCET AND 600TMW/1070 MIXING VALVE</td>
<td></td>
</tr>
<tr>
<td>EWC-1</td>
<td>ELKAY</td>
<td>EZ58L 120 VOLT WALL MOUNTED BARRIER FREE DRINKING FOUNTAIN</td>
<td>SPOUT SHALL BE MOUNTED AT 36&quot; A.F.F.</td>
</tr>
<tr>
<td>WH-1</td>
<td>RINNAI</td>
<td>REU-VC2528FU-US TANKLESS WATER HEATER WITH TANKLESS WATER HEATER DRUM PAN, ROOF VENT AND UP CONVERSION</td>
<td></td>
</tr>
<tr>
<td>OB-1</td>
<td>IPS CORPORATION</td>
<td>MWB114B ICE MACHINE OUTLET BOX W/ 3/4&quot;OUTLET</td>
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<tr>
<td>HB-1</td>
<td>IVASHBROOK</td>
<td>2947K5 HIGH FLOW FAUCET ONE T-HANDLE, HOT OR COLD WATER, 3/4&quot; NPT MALE INLET</td>
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<td>FD-1</td>
<td>WADE</td>
<td>1100A CAST IRON FLOOR DRAIN WITH FLANGE AND TRAP GUARD, 5&quot; DIA. NICKEL BRONZE STRAINER AND &quot;P&quot; TRAP</td>
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<tr>
<td>DCONG-1</td>
<td>WADE</td>
<td>6600Z CAST IRON CLEANOUT WITH Threaded Adjustable Housing, Flanged Ferrule with Round Scoured Cast Iron Tractor Type Cover</td>
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### WALL CLEANOUT (WCO)

- **Cleanout as specified**
- **Cast Iron Stack**
- **16" x 32" Conc. Pad Trowel Smooth and Flush with Finished Grade**
- ** Shut Off Valve**
- **Approved Gas Valve and flex tubing**
- **Coupler**
- **3" Long Capped OR Leg**
- **MAY EXTEND AS A WASTE OR VENT**
- **Plugged Tee with Cleanout**
- **Wall Cover and Screw**
- **Finished Floor**

### SYMBOL LEGEND

- **---** Domestic Cold Water
- **---** Domestic Hot Water
- **---** Sanitary Sewer
- **---** Gas Natural or Propane
- **---** Elbow
- **---** Elbow Down
- **---** Elbow Up
- **---** Tee
- **---** Tee Down
- **---** Tee Up
- **---** Gate Valve
- **---** Hose Bib

---

**DATE:** AUG. 8, 2016  
**JOB NO:** 110635  
**DRAWN BY:** KB  
**REVISIONS:**
### LIGHT FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
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<tr>
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<td>6&quot; LED DOWNLIGHT</td>
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### ELECTRICAL SYMBOL LEGEND

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<td>S</td>
<td>SWITCH</td>
<td>©</td>
<td>CABLE TELEVISION OUTLET</td>
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<tr>
<td>S3</td>
<td>THREE WAY SWITCH</td>
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<td>TELEPHONE OUTLET</td>
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<td>110V DUPLEX OUTLET</td>
<td>▲</td>
<td>DATA OUTLET</td>
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<tr>
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<td>COMBINATION TELEPHONE AND DATA OUTLET</td>
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<td>110V GROUND FAULT CIRCUIT INTERRUPTER</td>
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<td>110V WEATHER PROOF OUTLET</td>
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<td>220V OUTLET</td>
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<td>SQUARE JUNCTION BOX</td>
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<td>RADIO OUTLET</td>
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<td>ROUND JUNCTION BOX</td>
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<td>THERMOSTAT</td>
<td>□</td>
<td>42&quot; FIVE BLADE HARBOR BREEZE</td>
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<td>METER</td>
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### LIGHTING SYMBOL LEGEND

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**500W EMERGENCY GENERATOR**

**ELECTRICAL RISER DIAGRAM**