ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS

ARKANSAS WELCOME CENTER RECONST.
(HARRISON) (S)

BOONE COUNTY
ROUTE 65 SECTION 1
F.A.P. STPE-ENHN (479)
JOB: 090427

VICINITY MAP

LOCATION MAP

CONTACT LIST

ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT
PO Box 2251
Little Rock, Arkansas 72203

Project Manager: Day Cooper, Section Head

Arkansas Highways Division, Facilities Management Section
Phone: 501-378-0301

CHI, Architectural & MEP
LEIDOS ENGINEERING, LLC
300 W. Davis Boulevard, Suite 110
Fayetteville, Arkansas 72701

Project Manager / Architect: Joseph S. Elyea
Phone: 501-452-3330

Structural Group
ENGINEERING CONSULTANTS, INC.
701 Pacheco Street, Suite C
Little Rock, AR 72201

Structural Engineer: Dan Whitley
Phone: 501-770-9386

Not to Scale

LOCATION MAP

NOT TO SCALE

ARMSLIND ENGINEERING, INC.
PO Box 2251
Little Rock, Arkansas 72203

This project is being prepared for the Transportation Department by the

ARKANSAS HIGHWAY DISTRICT 9

leidos

I certify that these plans and specifications have been prepared by me, or under my supervision. I certify further that the work estimated is the work that shall be done in the manner and to the quality specified in these plans and specifications. This work is being performed under the supervision of the Transportation Department. I further certify that the work will be performed in compliance with the Highway Construction Contract Provision Code for the State of Arkansas.

JOSEPH G. ROGERS, ARCHITECT

P.O. Box 2251
Little Rock, AR 72203
Phone: 501-682-1848
Fax: 501-682-1849

Not to Scale

PROJECT MILEAGE:

83° 16' 50.3" W LATITUDE, 36° 26' 30.9" N LONGITUDE

LOCATION MAP

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LOCATION MAP

NOT TO SCALE
NOTES:

1. ALL SITE LIGHTING NOT SCHEDULED FOR DEMOLITION TO REMAIN FUNCTIONAL THROUGHOUT ALL PHASES OF PROJECT. SEE ELECTRICAL PLANS.


3. ALL BROWNS AND POSTS, PLUG POLES, AC UNITS, AND FIXTURES SHALL BE SALVAGED AND SET IN A SAFE LOCATION ON SITE UNTIL REJECTED BY THE OWNER. SALVAGED ITEMS MAY BE REMOVED FROM THE SITE ONLY IN THE COMPANY OF THE OWNER OR THEIR REPRESENTATIVE.

DEMO LEGEND:

- DEMOLITION
- SURVING DEMOLITION
- VEGETATION DEMOLITION

DEMO KEYS:

1. REMOVE AND DISPOSE OF EXISTING BUILDING AND CONCRETE INFRASTRUCTURE. DEMOLISH ALL RIVER, DRAINAGE, DITCH, ELECTRICAL, UTILITIES, OR STRUCTURES FOR RECONNECTION.

2. REMOVE AND DISPOSE OF PVC PIPE, PVC COVER.

3. REMOVE AND DISPOSE OF WAC, EA, DRAINAGE, EXISTING WAC, DRAINAGE, PIPE TO REMAIN.

4. REMOVE AND DISPOSE OF FENCE AND CONCRETE PLAC.

5. REMOVE AND DISPOSE OF CURB AND GUTTER.

6. REMOVE AND DISPOSE OF LANDSCAPING, FLAG POLE AND PIPE, DRAINAGE.

7. REMOVE AND DISPOSE OF EXISTING VEGETATION THIS AREA.

8. REMOVE AND SALVAGE AC UNIT.

9. REMOVE AND DISPOSE OF MAINTENANCE BUILD.

10. REMOVE AND DISPOSE OF ROOF FROM WINDBREAKER ENCLOSURE. SEE ARCHITECTURAL PLANS.

11. REMOVE AND DISPOSE OF SEW.

12. REMOVE AND DISPOSE OF TRASH RECEPTACLE AND CONDENSERS.

13. REMOVE AND DISPOSE OF APARTMENT EAVES.

14. REMOVE AND DISPOSE OF SIDEWALK.

15. REMOVE AND SALVAGE LIGHTING CIRCUIT. SEE ELECTRICAL PLANS.

16. REMOVE AND SALVAGE DUMPSTER.

17. TWO SIGNS TO BE REMOVED AS NECESSARY TO CONSTRUCT NEW QUESTION FLANGE AND SCREEN. SIGNS TO BE REMOVED UPON COMPLETION OF QUESTIONS FLANGE AND SCREEN.

18. REMOVE AND DISPOSE OF PAL TELEPHONE.
KEYNOTES:
1. INSTALL REINFORCED CONCRETE SIDEWALK,
   DETAIL 10-21.jpg.
2. INSTALL PICNIC SHelters.
   SEE ARCHITECTURAL PLANS.
3. INSTALL HANDICAP PARKING SIGN.
   DETAIL 10-16.jpg.
4. INSTALL MAINTENANCE SHED.
   SEE ARCHITECTURAL PLANS.
5. INSTALL HORIZONTAL RAMP AND SCREEN.
   DETAIL 10-16.jpg.
6. INSTALL HANDICAP RAMP.
   DETAIL 10-23.jpg.
7. INSTALL HOME SHELTER AND SHELTER FACILITY.
   SEE ARCHITECTURAL PLANS.
8. INSTALL CONCRETE BOLLARD.
   DETAIL 10-25.jpg.
9. INSTALL POWER PÔLE SEE ELECTRICAL PLANS.

NOTE:
1. SEE ORIENTATION PLAN OF SHEET 1-A12.
2. PRIOR TO BEGINNING ANY TYPE OF CONSTRUCTION, 
   THE CONTRACTOR SHALL CONTACT THE UTILITIES 
   LOCATION COMPANY AT 1-888-778-2847 TO DETERMINE 
   THE LOCATION OF THE UTILITIES TO BE EXCAVATED ON THE 
   SITE. THE CONTRACTOR SHALL MAINTAIN THE 
   UTILITIES LOCATION MARKINGS UNTIL THEY ARE NO 
   LONGER NEEDED UNDER ARKANSAS STATE LAW. 
   THE UNDERGROUND FACILITIES DAMAGE 
   PREVENTION ACT REQUIRES TWO WORKING DAYS
   ADVANCE NOTIFICATION THROUGH THE ARKANSAS 
   ONE-CALL SYSTEM BEFORE EXCAVATING USING 
   MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT 
   IN THE CASE OF AN EMERGENCY). THE CONTRACTOR 
   AGREES TO NOT START ANY WORK UNTIL THE ONE-CALL 
   SYSTEM CONFIRMS THAT THERE IS NO 
   HUMAN Utility OR-memory UTILITIES AS WELL 
   AS THE ONE-CALL SYSTEM.
KEYNOTES:

1. INSTALL ROCK HEA DWALL. ROCK HEA DWALL TO WATCH WATER FOR ELEVATION/LAYERS, DETAIL 3C-026.
2. THE TOP OF RETAINING WALL SHALL BE AT MINIMUM GROUND ELEVATION AT OR BELOW MAXIMUM GROUND ELEVATION AT OR BELOW TOP OF RETAINING WALL, DETAIL 3C-028.
3. INSTALL GRADUATED RAILING 1 FT BACK FROM TOP OF RETAINING WALL, RAILING ALONG THE ENTIRE LENGTH OF RETAINING WALL, DETAIL 3C-030.
4. WATCH EXISTING.

NOTES:

1. MAXIMUM SLOPE OF 3:1 UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS ARE TOP OF PAVEMENT OR TOP OF GROUND UNLESS OTHERWISE NOTED.
3. SEE SHEET C-181 UTILITY PLAN SHEET 1 OF 2 AND SHEETS D-BY ROOF DRAIN COLLECTION PIPE PLAN.

Leidos Engineering, LLC
3924 W. Davie Blvd, Suite 180
Fayetteville, Arkansas 72118
(479) 443-5800
www.leidos.com
KEYNOTES:
1. Connect 3" Pvc pipe to existing 3" concrete with tee and valve.
2. Contractor shall verify the location and elevation of existing water line.
3. Install new yard hydrant spigot.
4. Extend 3/4" water line to the new maintenance shed.

NOTE:
1. Contractor responsible for installation of temporary water service to temporary welcome center. See 11 for details.
NOTES:
1. ROOF DRAIN COLLECTION PIPE SHALL BE INSTALLED ON A MINIMUM 1% GRADE.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ROOF DRAIN GUTTERS.

KEYNOTES:
- DRAIN LID AND OUTLET DETAIL SEPARATE
EROSION CONTROL NOTES:

1. The locations of erosion control devices shown are schematic.
2. The contractor shall be responsible for erecting, maintaining, and removing all erosion control devices as directed by the engineer, until the site is stabilized.
3. All trees outside the limits of grading shall be protected from all activities during construction. No equipment shall be driven, operated, parked, serviced, or maintained inside the drip line of these trees.
4. Soil fences and other erosion control devices shall be installed by the contractor immediately after each rainfall of 0.5" and at least daily during prescribed rains. The contractor shall, at any required times, remove the seed immediately.
5. Contractor shall remove sediment from all erosion control devices and barrows as directed by the engineer.
6. Any sediment deposits remaining in place after the erosion control device is no longer required, shall be removed and recontoured with the fill grade and seeded.
7. All fill areas which shall be seeded and finished for erosion control shall be planted within 180 days following the last construction on the area. Unless construction is to resume on the area within 21 days of the last construction on the area.
8. All areas receiving sod or seeding and mulching, shall be watered and maintained by the contractor until a healthy stand of grass is established. As determined by the engineer.
9. Erosion control devices may be removed after they have served their useful purpose but not before the upslope area has been permanently stabilized.
10. Stone construction on site stone shall be periodically dressed as needed, so that all stone is removed from vehicle tires before they enter the roadway. Trimming of mud, dirt, concrete, oil, or asphalt onto the roadway is prohibited. Any discarded debris tracked onto the roadway shall be removed by the contractor at no additional expense to the owner. Note: clay/lime aggregate base will not meet the specifications for the construction of the road.
EROSION CONTROL NOTES:

1. THE LOCATIONS OF EROSION CONTROL DEVICES SHOWN ARE SCHEMATIC.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIRECTING, CONSEQUENTIAL, AND REMAINING ALL EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER, UNTIL THE SITE IS STABILIZED.

3. ALL TRENCHES OUTSIDE THE LIMITS OF GRAVITY SHALL BE PROTECTED FROM ALL ACTIVITIES DURING CONSTRUCTION. NO EQUIPMENT SHALL BE DRIVEN, OPERATED, PARCEL, ERECTED, OR MAINTAINED BEYOND THE ENDS OF THESE TRENCHES.

4. ALL FENCES AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE CONTRACTOR IMMEDIATELY AFTER EACH RAMPALL OF 6.75 FEET MAX. EACH DAILY DURING PRECOMPLETED RAMPALL CONTRACTOR SHALL MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

5. CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL EROSION CONTROL DEVICES AND DESIGNS AS DIRECTED BY THE ENGINEER.

6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE EROSION DEVICES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM WITH THE WATCH GRASS SLOPE AND SLOPE.

7. ALL DISTURBED AREAS SHALL BE SEeded AND WOODED FOR EROSION CONTROL NO LATER THAN 4 DAYS FOLLOWING THE LAST CONSTRUCTION ON THE AREA. UNLESS CONSTRUCTION IS TO RESUME ON THE AREA WITHIN 90 DAYS OF THE LAST CONSTRUCTION ON THE AREA.

8. ALL AREAS RECEIVING SOIL OR SEEDING AND WOODED AREAS SHALL BE SEeded AND WOODED BY THE CONTRACTOR UNTIL A PERMANENT STAND OF GRASS IS ESTABLISHED AS DETERMINED BY THE ENGINEER.

9. EROSION CONTROL DEVICES MAY BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE BUT NOT BEFORE THE SPECIFIED AREA HAS BEEN PERMANENTLY STABILIZED.

10. EROSION CONTROL ENTRANCE STONE SHALL BE PERMANENTLY DRESSED AS REQUIRED. SO THAT ALL DIRT IS REMOVED FROM VEHICLE TIRES BEFORE THEY ENTER THE ROADWAY. TRACKING OF DIRT, CONCRETE, OIL, OR ASPHALT INTO THE ROADWAY IS PROHIBITED. ANY MATERIAL TRACKING INTO THE ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. NOTE: LAZARUS AGGREGATE DIRT WILL NOT MEET THE SPECIFICATIONS FOR THE CONSTRUCTION ENTRANCE RAMP.
NOTE:
1. JOINTS SHOWN FOR INFORMATION PURPOSES ONLY.
1. **RAILING DETAIL**

   NOT TO SCALE

   1. Railing to be galvanized steel with powder coat, color to match building accents.
   2. Posts remain vertical regardless of slope.

2. **REINFORCED SEGMENTAL WALL TYPICAL SECTION**

   NOT TO SCALE

   - Top of wall, EL. 1222.83
   - Existing grade
   - Finished grade, EL. 1217.50
   - Top of leveling pad, EL. 1217.00
   - 4" perforated drain pipe
   - 4" drain outlet (typ.)

   **NOTE:**
   Segmented block retaining wall and geogrid reinforcement are shown for informational purposes only. Actual design shall be conducted by a qualified professional engineer. Contractor shall coordinate with manufacturer of segmented block retaining wall system for final design.
FLAGPOLE NOTES:
CONCORD INDEPENDENCE WH391YW16 CONCERNAL
30'-0" TALL POLE, STANDARD FINISH
3'-0" OVERALL LENGTH
FLAG SIZE 05'X12' (BY OTHERS)

COLLAR
4" CONCRETE WALL
4" CONCRETE WALL
SEALANT
DRIED SAND TANKED
IN PLACE AFTER PLUMBED
STEEL BASE PLATE
3/4" X 18" GROUND SPINE
WELDED TO SLEEVE

12" PEDESTRIAN LIGHT BASE DETAIL,
NOT TO SCALE

1" Ø CONDUIT
1" Ø BOLT CIRCLE
1/2" Ø BOLT 60 GAL.
1/2" Ø BOLT CIRCLE
5/8" BARS
93 HOOPS @ 1" D.C. VERT.
9" SQUARE STEEL LIGHT POLE
BASE PLATE COVER BY MANUFACTURER
CONNECT TO POLE GROUND LUG
LEVELING NUTS (2) NON-SHINK GROUT AS REUSED AFTER LEVELING POLE
1" Ø BOLT CIRCLE
9" SQUARE STEEL LIGHT POLE
5/8" BARS
93 HOOPS @ 1" D.C. VERT.

FOUNTAIN MANUFACTURER

HARDENED DEEP BARRIER FREE,
DUAL HEIGHT, FREE STANDING
PEDESTAL, BLACK FINISH OR APPROVED EQUAL.
LINE ALL SEES B AT TOP OF TAMP KIT
AND TYPE OR TYPE 8 DEVICES.
FABRIC CAP/11" ALL LAPS AT TOP.
3 OF 1-1/2" SCREEN
1-1/2" DRAIN LINE
1-1/2" DRAIN LINE
WASHED GRAVEL
1/4" WATER SUPPLY LINE

PEDESTAL DRINKING FOUNTAIN
INSTALLATION DETAILS
NOT TO SCALE

YARD HYDRANT SPLASHPAD DETAIL,
NOT TO SCALE

6" CONCRETE EDGING
6" CONCRETE EDGING
W/ R4 REBAR
MORBOK MODEL #175
YARD HYDRANT OR
APPROVED EQUAL
1'-0" INVERT STONE 3" DEEP
SPECIAL IN PLACE
MORBOK MODEL #175
YARD HYDRANT OR
APPROVED EQUAL
2'-0" CONCRETE EDGING
W/ R4 REBAR
CONCRETE WASHOUT STRUCTURE WITH WOOD PLANKS

NOT TO SCALE

WASHOUT STRUCTURE WITH STREAM BAILS

CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS, AND WATER COURSES, AND AWAY FROM CONSTRUCTION TRAFFIC.

2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS, AND MAINTAIN AT LEAST 4 INCHES OF FRIEBORD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.

3. PREPARE SOIL, BASE PIECE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERVIOUS SHEETING FREE OF HOLES AND REAR OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.

4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.

5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERVIOUS LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. DO NOT LEAK LIQUID SOLIDS THAT HAVE NOT BEEN DREDGED OR IMBEDDED, AND DISPOSE OF IN AN APPROVED MANNER, PRIOR TO FORECASTED RAINSTORMS. REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOW. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNDOWN DIVERSION AREA EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.
CONCRETE COMBINATION CURB AND GUTTER

DETAIL OF GUTTER SLOPE
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.

ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB

DETAILS OF MODIFIED CURB

NOTE: USE MODIFIED CURB AS SPECIFIED ON STD.
COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.
GENERAL NOTES:

1. In new construction, unless otherwise indicated on the plans, wheelchair ramps are to be provided at all corners of curved street intersections and crosswalks.

2. In new construction, wheelchair ramps shall be provided at all corners of curved street intersections and crosswalks.

3. The length of the ramp shall be such that the slope does not exceed 1:12. The surface texture of the ramp shall conform to a Class 6 finish according to Section A-A.

4. The normal gutter grade shall be maintained through the area.

5. All pedestrian facilities shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices, published by the Federal Highway Administration.

6. The maximum slope of the ramp shall be 1:12.

7. The maximum width of the ramps shall be the width of the access platform plus 36 inches.

8. Ramps shall be modified as necessary to provide access to all pedestrian facilities.

9. The dimensions and quantities shown on this drawing are for general illustration only. Dimensions and quantities for required intersection facilities will vary and are to be determined by the engineer.

RAMP SELECTION CRITERIA:

TYPE 1: CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB BOTH NEW CONSTRUCTION AND ALTERATIONS

TYPE 2: CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB WITH DISTANCE BETWEEN RAMP AND WALK LESS THAN 6 FEET, BOTH NEW CONSTRUCTION AND ALTERATIONS

TYPE 3: ALLEYS AND SIDEWALKS WHERE RAMP SLIDE IS NOT CONSTRUCTION AND ALTERATIONS

TYPE 4: TANGENT LOCATIONS NEW CONSTRUCTION AND ALTERATIONS

TYPE 5: TANGENT LOCATIONS ALTERATIONS ONLY

NOTES:

1. Wheelchair ramps shall be provided at all corners of curved street intersections and crosswalks.

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NOTED SUMMARY OF WRITTEN SPECIFICATIONS FOR ALL PLANTING:

1. THE LOCATIONS OF THE PLANTS SHOWN ON THE PLANS ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, AS DIRECTED OR APPROVED BY THE OWNERS REPRESENTATIVE.

2. THE QUANTITIES IN THE PLANT SCHEDULE ARE FOR CONSIDERATION ONLY AND THE GRAPHIC REPRESENTATIONS ON THE DRAWINGS TAKE PRECEDENCE. VERIFY QUANTITIES AND QUANTITIES ARE BRING TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

3. NO SUBSTITUTIONS AS TO SIZE, TYPE, SPECIES, QUANTITY OR QUALITY OF PLANT MATERIAL SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE. CHANGES IN PLANT MATERIAL MAY CONSTITUTE PLAN RE-APPROVAL.

4. PLANTS SHALL BE SUPPLIED AT THE SIZES SPECIFIED ON THE DRAWINGS. THE SIZES SHOWN ARE THE MINIMUM REQUIRED FOR EACH CATEGORY (KIND, SPECIES, CALIPER, CONTAINER SIZE, ETC.). WHEN A RANGE OF SIZE IS GIVEN, 75% OF THE PLANTS SHIPPED MUST MEET THE MINIMUM SIZE, AND 25% OF THE PLANTS SHIPPED MUST MEET THE MAXIMUM SIZE. MIXES OF PLANTS SUPPLIED MUST CONFORM TO ALL OF THE MINIMUM DIMENSIONS INDICATED. PLANTS OF A SIZE LESS THAN THE MINIMUM REPRESENTED ARE TO BE ADDED AS AN ADDITIONAL COST. THE SIZE OF CONTAINER OR ROOTTAIL SHALL BE HEADED, AND SIZE AND QUANTITY CHANGES PORPORTIONALLY IN ACCORDANCE WITH THE 2.16:1 LARGEST SIZE. ALL OTHER QUALITY REQUIREMENTS OF THE PLANT MATERIAL MUST ALSO BE ADHERED TO.

5. ALL PLANTS MUST BE NURSERY GROWN, AS SPECIFIED IN THE MATERIALS SCHEDULE. ALL TREES SHALL COMPLY WITH HARD 2.61, 1.2X G46 EDITION. ALL PLANTS SHALL BE HARDINESS ZONE 8. FIRST CLASS REPRESENTATIVE OF THEIR SPECIES. SEEDS, CULMS OR PLANT GRADE MATERIAL WILL BE REJECTED.

6. CALIPER SIZE IS NOT TO BE REJECTED. CALIPER MEASUREMENTS SHALL BE TAKEN IN ACCORDANCE WITH ANSI STANDARD.

7. ALL SHOE TREES MUST BE STRIGHT, TRUNKED, WITH A STRONG CENTER, LEAFY, FULL, AND MEET THE MINIMUM REQUIREMENTS. TREES WITH "Y" SHAPE ARE NOT ACCEPTABLE UNLESS THAT SHAPE IS NATURAL TO THE GROWTH HABIT OF THE SPECIES. TREES THAT HAVE BEEN FORMLY PRETRAINED TO MEET THESE SPECIFICATIONS SHALL BE REJECTED.

8. THE PLANTS' VEGETATIVE CANOPY SHOULD BE MOSTLY SYMMETRICAL AND FREE OF LARGE VIVAS OR PLANT SURFACE AREAS.

9. ALL SHOE TREES SHALL HAVE A MINIMUM OF 6" CLEARANCE UNLESS OTHERWISE NOTED ON PLANS OR PLANT LISTS.

10. TREES AND BARB WIRE MOWING DURING PERIODS OF HIGH TEMPERATURE SHALL BE SPRAYED WITH AN ANTI-DESEEDING AGENT BEFORE MOWING. APPLY AND FOLIATOR AND DESEEDING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

11. TREES SHALL BE STaked AND GUARDED AS DETAILED. STAKES AND GUARD MATERIALS SHALL BE REMOVED BY THE LANDSCAPE SUBCONTRACTOR (SR) NOT MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE.

12. ALL PLANTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNERS REPRESENTATIVE AT ANY TIME PRIOR TO FINAL ACCEPTANCE. REJECTED PLANTS SHALL BE REPLACED IMMEDIATELY AT NO ADDITIONAL COST.

13. PRIOR TO COMPLETION OF INSTALLATION, THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL AVOID DAMAGING UTILITIES DURING INSTALLATION. ANY UTILITIES DAMAGE DURING INSTALLATION SHALL BE REPAIRED BY THE LANDSCAPE SUBCONTRACTOR TO THE SATISFACTION OF THE APPLICABLE UTILITY COMPANY AND THE GENERAL CONTRACTOR.

14. ALL PLANT SEEDS SHALL BE THERMOGRAPHICALLY TESTED AND SHOWN TO BE FREE OF TRIBLE SEEDS (T) PRIOR TO PLANT PLACEMENT. AMENTMENTS, IF REQUIRED, BASED ON SITE-SPECIFIC SOIL TEST RESULTS, SHALL BE THOROUGHLY TILLED INTO THE SOIL ACCORDING TO THE TEST RESULTS RECOMMENDATIONS.

15. NO PLANTS SHALL BE INSTALLED IN POOR GROWTH CONDITIONS. THE LANDSCAPE SUBCONTRACTORS ARE RESPONSIBLE FOR TESTING SUSPECT PLANT SITE PRIOR TO PLANT INSTALLATION. REFER TO THE LANDSCAPE SPECIFICATIONS FOR PLANT FIT TESTING PROCEDURES.

16. ALL PLANTS SHOULD BE PLACED IN AN AREA OF PROPER SOIL AND GEOLOGICAL CONDITIONS PRIOR TO INSTALLATION. REMOVE NO MORE THAN 1/3 OF THE DROUGHTING.

17. PRIOR EMBERS TO BE述べ IN ORDER OF APPROVAL, ALL SHOES ARE TO BE MISSED PRIOR TO INSTALLATION. APPLY AT MANUFACTURER'S RECOMMENDATIONS.

18. APPLY ORGANIC ROOT STIMULATORS, CONTAINING MYCORRHIZAL FUNGI, TO ALL PLANTS PRIOR TO BACKFILLING. APPLY AT MANUFACTURER'S RECOMMENDATIONS. LANDSCAPE SUBCONTRACTOR TO SUBMIT SAMPLES OF ROOT STIMULANT FOR APPROVAL PRIOR TO USE.

19. THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANT INSTALLATIONS UNITS, ACCORDING TO THE OWNERS REPRESENTATIVE AND THE BUILDING TAKES OVER TO THE OWNER. MAINTENANCE SHALL INCLUDE RE-MUDDING, SOIL SPECIES. APPLICATIONS OF FERTILIZERS, FUNGICIDES, PESTICIDES, AND PESTICIDES AS NECESSARY. MAINTENANCE SHALL INCLUDE THE LAWN PLANTS, TREES, SHRUBS, GROUND COVERS, ANIMALS, PERENNIALS, AND SOILS.

20. THE LANDSCAPE SUBCONTRACTOR SHALL ENSURE THAT ALL PLANTS SHALL BE IN A HEALTHY AND THRIVING CONDITION ACCORDING TO THE NATURAL GROWTH HABIT OF THE NATURAL SPECIES AT THE TIME OF INSTALLATION.

LANDSCAPE DRAWING:

1. AREAS NOTED AS SHOES WITH FILLER SHOE MIX AREA OR NON-PLANTING AREA, REFER TO DRAWINGS FOR LOCATIONS. LANDSCAPE SUBCONTRACTOR SHALL SUBMIT EVIDENCE CONSIDERATION FOR VERIFICATION PRIOR TO INSTALLATION.

2. FERTILIZATION FOR THE PROJECT SHALL BE AS FOR THE SITES SPECIFIC TESTS RESULTS. FOR SEEDING PURPOSES ONLY, FERTILIZER SHALL BE 10:18:19 AND SHALL BE APPLIED AT A RATE OF 20 POUNDS/1000 SQ.

3. SCUFFY CUTS ON LEAVES OR BLOOM OF LIKE SIZE TO BRING TO THE PROPER FINISH AND GROWTH PRIOR TO SOCCING. SHOES DOUGS, ONE BUSH SIZE, ONE BUSH SIZE PRIOR TO SOCCING.

4. ALL SOCCED AREAS MUST BE PER THE WRITTEN SPECIFICATIONS. SOCCED MUST BE TIDILY PLANTED LEADING ADVICE BETWEEN BUSHES. WATER SOIL PRIOR TO SOCCING.

5. ALL SOCCED AREAS MUST BE MAINTAINED BY THE LANDSCAPE SUBCONTRACTOR UNITS, ACCORDING TO THE OWNERS REPRESENTATIVE.
PLANT SCHEDULE

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
<th>SIZE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TREES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td><em>Lagerstroemia indica</em> &quot;Red Rocket&quot;</td>
<td>Red Rocket Crape Myrtle</td>
<td>16&quot; G. 3-8 HT.</td>
<td>MULTI TRUNK, WELL BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, RED BLOOM</td>
</tr>
<tr>
<td>1</td>
<td>Quercus rubra</td>
<td>Northern Red Oak</td>
<td>2-1/2&quot; cal. 10-12&quot; HT.</td>
<td>SINGLE TRUNK, WELL BRANCHED, MATCHING IN QUALITY, FORM AND SIZE</td>
</tr>
<tr>
<td>SHRUBS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td><em>Acaena grandis rose</em></td>
<td>Grained Azalea</td>
<td>3&quot; G. 3-0 C.</td>
<td>WELL BRANCHED, MATCHING IN QUALITY, FORM AND SIZE</td>
</tr>
<tr>
<td>0</td>
<td>*Berberis thunbergii * Atropurpurea Rose Glow</td>
<td>Rose Glow Barberry</td>
<td>3&quot; G. 3-0 C.</td>
<td>WELL BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, ROSE PURPLE, PURPLE, ROSE</td>
</tr>
</tbody>
</table>
ROOF PLAN NOTES:
1. SINGLE WELDED SPACING MUST MATCH RAFTER SPACING AND ALIGN RAFTERS
   BELOW.
2. ICE SHIELDS SHALL BE ADHERED TO ROOF W/ PENTRATION OF THE ROOF PANEL.
   COLOR TO MATCH ROOF COLOR.
3. GUTTER AND DOWNSPOUT COLOR TO MATCH ROOF COLOR.
STONE VENEER NOTES:
1. Select capstones: End capstones on top level surfaces. Determine wall size (H x W) (H x W).
2. For window openings: Select wall panels to ensure proper cap view. Ensure continuous surface of stone or metal, if applicable. Ensure surface view of metal or capstone. Ensure surface view of stone or metal, if applicable.
3. For window openings: Ensure capstone is treated with a color similar to the window frame material. Ensure the stone is treated with a color similar to the window frame material.
4. Ensure capstone is treated with a color similar to the window frame material. Ensure the stone is treated with a color similar to the window frame material.

WALL SECTION

WALL SECTION

WALL SECTION
TOILET ROOM NOTES:
1. WALL PATTERNS TO BE CONTINUOUS AROUND THE PERIMETER OF THE ROOM. LAYERS OF WALL TILE ARE NOTED FOR ALL WALLS.
2. ALL FOUR SLOPE-DRAIN TILE FLOORS ARE SHOWN.
3. SLICE CONCRETE FLOOR TO ANGLE SHOE. WALL TILE SHOULD BE APPROXIMATELY 1/8.

WOMEN'S TOILET 113, WEST ELEVATION
30' = 1'-0"

WOMEN'S TOILET 113, EAST ELEVATION
30' = 1'-0"

MEN'S TOILET 111, EAST ELEVATION
30' = 1'-0"

MEN'S TOILET 111, WEST ELEVATION
30' = 1'-0"
# DOOR SCHEDULE

<table>
<thead>
<tr>
<th>DOOR NO.</th>
<th>DOOR DESCRIPTION</th>
<th>FRAME</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>10&quot; X 6'-0&quot; X 0.012&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1B</td>
<td>10&quot; X 6'-0&quot; X 0.012&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1C</td>
<td>10&quot; X 6'-0&quot; X 0.012&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DOOR SCHEDULE NOTES:**
1. NRS = NO SPECIAL MANUFACTURER
2. NRS = NO SPECIFIC REQUIREMENT
3. WITH COMMERCIAL DOOR OPERATOR, WITH EXTERIOR KEYED ACTUATOR AND INTERIOR PASSAGE-OPENING OPERATOR
4. REFER TO SPECIFICATION SECTION 04315 FOR HARDWARE SETS.

---

## DOOR FRAME ELEVATIONS

**SCALE:** 1/16" = 1'-0"
## WINDOW SCHEDULE

<table>
<thead>
<tr>
<th>WINDOW No.</th>
<th>WINDOW SIZE</th>
<th>MFG</th>
<th>WINDOW DESCRIPTION</th>
<th>FRAME</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2' 10&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
<td>K</td>
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</tr>
<tr>
<td>2</td>
<td>2' 2&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
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<tr>
<td>3</td>
<td>2' 2&quot; x 4' 0&quot;</td>
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<td>METAL CLAD PANELED GLASS</td>
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</tr>
<tr>
<td>4</td>
<td>2' 2&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
<td>N</td>
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</tr>
<tr>
<td>5</td>
<td>2' 2&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
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<tr>
<td>6</td>
<td>2' 2&quot; x 4' 0&quot;</td>
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<td>METAL CLAD PANELED GLASS</td>
<td>K</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2' 2&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
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<td></td>
</tr>
<tr>
<td>8</td>
<td>2' 2&quot; x 4' 0&quot;</td>
<td>0004</td>
<td>METAL CLAD PANELED GLASS</td>
<td>D</td>
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</tr>
</tbody>
</table>

### WINDOW ELEVATIONS

![Window Elevations Diagram](image)

**Scale:** 1/4" = 1'-0"

**NOTE:**

- Window elevations are provided for clarity only. They are not suitable for computing architectural extent and pricing only. Verify actual measurements in field prior to ordering window units.

---

**DESIGNED BY:** DJR  
**CHECKED BY:** DJR  
**APPROVED BY:** DJR  

**DATE:** 9/29/2015  
**SCALE:** AS SHOWN  
**LEEDS PROJECT NUMBER:** 313841  
**SHEET:** A-502  

---

**ARKANSAS WELCOME CENTER**  
**IMPERIAL**  
**LEEDS EXECUTIVE CENTER**  
**200 Mdcc Blvd., Suite 120**  
**Fayetteville, Arkansas 72702**  
**870-442-3000**  
**www.leidos.com**
### Room Finish Schedule

**Legend:**
- **CEILING:**
  - **GLASS:** Transparency 4
  - **GLASS W/FRAMES:** Transparency 4
  - **GLASS W/FRAMES:** Transparency 3
  - **GLASS W/FRAMES:** Transparency 2
  - **GLASS W/FRAMES:** Transparency 1
- **FLOOR:**
  - **TILE:**
  - **CARPET:**
  - **LAMINATE:**
  - **VINYL:**
  - **WOOD:**
  - **PAINT:**
  - **SPRAY:**
  - **MOLDING:**
  - **WALLS:**
  - **CEILINGS:**
  - **DOORS:**
  - **WINDOW:**
- **Remarks:**
  - *Remarks*

<table>
<thead>
<tr>
<th>Room No.</th>
<th>Room Name</th>
<th>Floor</th>
<th>Trim</th>
<th>Ceiling</th>
<th>Walls</th>
<th>Ceilings</th>
<th>Doors</th>
<th>Window</th>
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<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td>102</td>
<td>bathroom</td>
<td>1</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
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<tr>
<td>103</td>
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<td>L</td>
<td>L</td>
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<td>L</td>
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<tr>
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<td>L</td>
<td>L</td>
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<td>L</td>
<td>L</td>
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</tbody>
</table>

**Notes:**
- *Notes*

---

**Interiors Finish Schedule**

**Legend:**
- **Wall Finish:**
  - **GLASS:** Transparency 4
  - **GLASS W/FRAMES:** Transparency 4
  - **GLASS W/FRAMES:** Transparency 3
  - **GLASS W/FRAMES:** Transparency 2
  - **GLASS W/FRAMES:** Transparency 1
- **Floor Finish:**
  - **TILE:**
  - **CARPET:**
  - **LAMINATE:**
  - **VINYL:**
  - **WOOD:**
  - **PAINT:**
  - **SPRAY:**
  - **MOLDING:**
  - **WALLS:**
  - **CEILINGS:**
  - **DOORS:**
  - **WINDOW:**
- **Remarks:**
  - *Remarks*

<table>
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<tr>
<th>Room No.</th>
<th>Room Name</th>
<th>Floor</th>
<th>Trim</th>
<th>Ceiling</th>
<th>Walls</th>
<th>Ceilings</th>
<th>Doors</th>
<th>Window</th>
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<tr>
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<td>102</td>
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<td>L</td>
<td>L</td>
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<td>L</td>
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<td>L</td>
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<td>L</td>
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**Notes:**
- *Notes*
### SOILS SPECIAL INSPECTION

<table>
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<tr>
<th>VACATION AND INSPECTION</th>
<th>BIC 2016 REFERENCE</th>
<th>CODE OF REFERENCE</th>
<th>FREQUENCY</th>
<th>PERIODICITY</th>
<th>SCOPE</th>
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<tbody>
<tr>
<td>SOILS SPECIAL INSPECTION</td>
<td>JIC 1000.4</td>
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### CAST-IN-PLACE CONCRETE SPECIAL INSPECTION

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<th>BIC 2016 REFERENCE</th>
<th>CODE OF REFERENCE</th>
<th>FREQUENCY</th>
<th>PERIODICITY</th>
<th>SCOPE</th>
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### MASONRY LEVEL B SPECIAL INSPECTION

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**SOILS SPECIAL INSPECTION**

- **Scope:**
  - Ensure that materials for testing are placed to achieve the design bearing capacity.
  - Ensure that materials are placed to achieve the design bearing capacity.
  - Ensure that materials are placed to achieve the design bearing capacity.

**CAST-IN-PLACE CONCRETE SPECIAL INSPECTION**

- **Scope:**
  - Ensure that materials are placed to achieve the design bearing capacity.
  - Ensure that materials are placed to achieve the design bearing capacity.

**MASONRY LEVEL B SPECIAL INSPECTION**

- **Scope:**
  - Ensure that materials are placed to achieve the design bearing capacity.
  - Ensure that materials are placed to achieve the design bearing capacity.

**PLUMBING Fixture SCHEDULE**

<table>
<thead>
<tr>
<th>WORK</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>COLOR</th>
<th>MOUNTING</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>ON</th>
<th>VHP</th>
<th>WATER DISCHARGE</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td>P-1</td>
<td>WATER CLOSET</td>
<td>KOHLER</td>
<td>K-4349</td>
<td>WHITE</td>
<td>FLOOR</td>
<td>Sloan</td>
<td>E-105</td>
<td>1/2</td>
<td>2</td>
<td>1-1/4</td>
<td>NOTE 2, 4</td>
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<tr>
<td>P-16</td>
<td>WATER CLOSET, HANDCUPPED</td>
<td>KOHLER</td>
<td>K-4397</td>
<td>WHITE</td>
<td>FLOOR</td>
<td>Sloan</td>
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<td>2</td>
<td>1-1/4</td>
<td>NOTE 1, 2, 4</td>
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<tr>
<td>P-20</td>
<td>URINAL, HANDCUPPED</td>
<td>KOHLER</td>
<td>K-4858-8</td>
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<td>WALL</td>
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<td>E-105</td>
<td>1/2</td>
<td>2</td>
<td>1-1/4</td>
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<tr>
<td>P-3</td>
<td>LAUNDRY</td>
<td>KOHLER</td>
<td>K-4008-4</td>
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<td>WALL</td>
<td>Sloan</td>
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<td>1-1/4</td>
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<tr>
<td>P-5</td>
<td>ELECTRIC WATER COOLER</td>
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<td>Sloan</td>
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<tr>
<td>P-6</td>
<td>KITCHEN SINK</td>
<td>KOHLER</td>
<td>K-3314-4</td>
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<td>COUNTER</td>
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<td>1-1/2</td>
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<tr>
<td>P-7</td>
<td>WASH BOWL, 24&quot; O.D.</td>
<td>STERN WILLIAMS</td>
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<td>COFFEE BAR SINK</td>
<td>KOHLER</td>
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<td>P-11</td>
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<td>D510-0</td>
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<td>WALL</td>
<td>Sloan</td>
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</tr>
</tbody>
</table>

1. FRONT UP SHALL BE 17" HAP.
2. SAW: KOHLER K-4870-C4-0
3. HAMMER: KOHLER K-1895
4. TRANSFORMER Sloan EL-154 Transformer supplies multiple flush valves, coordinate with electrical for quantity.
5. TRANSFORMER Sloan EL-154 Transformer supplies multiple flush valves, coordinate with electrical for quantity.

**ELECTRIC WATER HEATER SCHEDULE**

<table>
<thead>
<tr>
<th>WORK</th>
<th>BASIS OF DESIGN</th>
<th>MODEL</th>
<th>CAPACITY (GALLONS)</th>
<th>ELECTRICAL (V,32A)</th>
<th>FULL LOAD AMP</th>
<th>ELEMENTS</th>
<th>INPUT (KW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENH-1</td>
<td>A.O. SMITH</td>
<td>25-10</td>
<td>10</td>
<td>232/1,900</td>
<td>15.1</td>
<td>1</td>
<td>3.0</td>
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<tr>
<td>ENH-2</td>
<td>A.O. SMITH</td>
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<td>50</td>
<td>330/1,900</td>
<td>20</td>
<td>1</td>
<td>6.0</td>
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**RECYCLING PUMP SCHEDULE**

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<th>WORK</th>
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<th>MODEL</th>
<th>MAX SERVICE TEMP (°F)</th>
<th>MAX HEAD (FT)</th>
<th>RPM</th>
<th>CONNECTION (NPS)</th>
<th>POWER (HP)</th>
<th>ELECTRICAL (V,32A)</th>
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<tbody>
<tr>
<td>C-1</td>
<td>BELL AND GOSSETT</td>
<td>PL-108</td>
<td>160</td>
<td>8</td>
<td>12</td>
<td>2650</td>
<td>1/3</td>
<td>120/1,980</td>
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</tbody>
</table>

**MISC. PLUMBING EQUIPMENT**

1. KITCHEN SINK (20") GARAGE DEPOT SHALL BE IN-SINK-EXTRACT BASKET 5 (OR APPROVED EQUIVALENT). 3/4" FIT WITH 1" X 1/2" BARING POWER. PROVIDE WALL SWITCH CONTROL.
2. RECESSED PRESSURE ZONE (U20) SHALL BE WATTS (OR APPROVED EQUIVALENT) DIAMETER PREDICTION ASSEMBLY.
3. FROST PROOF VALVE PISTON (520) SHALL BE WATTS MODEL 2418 (OR APPROVED EQUIVALENT). 1/2" CONNECTION.
4. HOSE BORE (20) SHALL BE WATTS MODEL 24 (OR APPROVED EQUIVALENT). 3/4" CONNECTION.
5. FLOOR DRAIN BY WATTS MOL: ZN-415, ADJUSTABLE COIL, MECHANICAL CLAMP, BADGE BRONZE SCREW AND 3" TRAP WITH 1/2" PRIMER LINE CONNECTION.
6. TRASH PIPE VALVE BY VPP (PRECISION PLUMBING PRODUCTS), MODEL PV-25D 3/4" X 3/4" WITH WATER DISTRIBUTION SYSTEM FOR 3 DRAINS.
A VRF EQUIPMENT AND PIPING DIAGRAM

SYSTEM 1

SYSTEM 2
**FAN SCHEDULE**

<table>
<thead>
<tr>
<th>MARK</th>
<th>EF-1</th>
<th>EF-2</th>
<th>EF-3</th>
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<td>MANUFACTURER</td>
<td>GREENheck</td>
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<td>GREENheck</td>
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<tr>
<td>TYPE</td>
<td>MAIN CENTERLINE</td>
<td>MAIN CENTERLINE</td>
<td>COILING</td>
<td>COILING</td>
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<tr>
<td>LOCATION</td>
<td>SOURCE ROOM</td>
<td>SOURCE ROOM</td>
<td>DRAFT TOILET</td>
<td>CORRIDOR</td>
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<tr>
<td>AIRFLOW (CFM)</td>
<td>200</td>
<td>200</td>
<td>110</td>
<td>110</td>
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<tr>
<td>ISP (BA)</td>
<td>0.5</td>
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<td>TIE RAMPS</td>
<td>1400</td>
<td>1400</td>
<td>045</td>
<td>045</td>
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<tr>
<td>HORSEPOWER (HP)</td>
<td>1/4</td>
<td>1/4</td>
<td>0.4 hp</td>
<td>0.4 ( \text{amps} )</td>
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<tr>
<td>ELECTRICAL (V/P/HZ)</td>
<td>110/1/60</td>
<td>110/1/60</td>
<td>110/1/60</td>
<td>110/1/60</td>
</tr>
<tr>
<td>NOTES</td>
<td>1.2</td>
<td>1.2</td>
<td>3.4</td>
<td>3.4</td>
</tr>
</tbody>
</table>

1. INTERNAL, DISCONNECT.
2. BACK DRAFT DAMPER AND SPRING ISOLATOR.
3. INTEGRAL TOILET LIGHT SWITCH.
4. INTERNAL DISCONNECT SWITCH, BOARD OUTLET COLLAR WITH INTERNAL BACK DRAFT DAMPER, ALUMINUM GRILLE, COLLAR MOUNTED, ROUND HUGGED WALL CAP.
5. ISOLATED VENTS, ALUMINUM (GR).

---

**GRILLE AND REGISTER SCHEDULE**

<table>
<thead>
<tr>
<th>MARK</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tr>
<td>MODEL</td>
<td>S0F</td>
<td>S0F</td>
<td>S0F</td>
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<tr>
<td>APPLICATION</td>
<td>SUPPLY</td>
<td>RETURN</td>
<td>SUPPLY</td>
<td>RETURN/DRAFT</td>
<td>SUPPLY</td>
</tr>
<tr>
<td>FACE SIZE</td>
<td>24X24</td>
<td>24X12</td>
<td>SEE PLANS</td>
<td>SEE PLANS</td>
<td>SEE PLANS</td>
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<tr>
<td>CONSTRUCTION</td>
<td>STEEL</td>
<td>ALUMINUM</td>
<td>ALUMINUM</td>
<td>ALUMINUM</td>
<td>ALUMINUM</td>
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<tr>
<td>RATING</td>
<td>LT-16</td>
<td>LT-16</td>
<td>SURFACE LT-16</td>
<td>SURFACE LT-16</td>
<td>SURFACE LT-16</td>
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<tr>
<td>NOTES</td>
<td>1.</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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</tr>
</tbody>
</table>

1. MANUFACTURER'S STANDARD OIL-WHITE FINISH.
2. DUCT RUNNIG SIZE SHALL MATCH DIFFUSER MOUTH SIZE, SEE PLANS FOR MOUTH SIZES.
3. AT TOILET ROOM PAINT TO MATCH SURFACE, COORDINATE WITH ARCHITECT.
4. ALUMINUM FRAME, 180° REFLECTION LT, HINGED, 5° DUCT WEAVER.
5. OPPOSED BLADE DAMPER.

---

**LOUVER SCHEDULE**

<table>
<thead>
<tr>
<th>MARK</th>
<th>1-2</th>
</tr>
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<tbody>
<tr>
<td>MANUFACTURER</td>
<td>REGINE</td>
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<tr>
<td>MODEL</td>
<td>32727</td>
</tr>
<tr>
<td>LOCATION</td>
<td>TOILET EXHAUST</td>
</tr>
<tr>
<td>SIZE (IN)</td>
<td>24X12</td>
</tr>
<tr>
<td>FLOW RATE (CFM)</td>
<td>400</td>
</tr>
<tr>
<td>FIRE AREA (sq. ft)</td>
<td>1.03</td>
</tr>
<tr>
<td>PRESSURE DROP (in. w.c.)</td>
<td>0.15</td>
</tr>
<tr>
<td>SHAPER TYPE</td>
<td>ROUNDED</td>
</tr>
<tr>
<td>NOTES</td>
<td>1. EXTENDED ALUMINUM LOUVER, 4&quot; DEEP WITH BLIND SCREEN, BARED ENAMEL FINISH, COLOR SELECTION BY ARCHITECT.</td>
</tr>
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</table>

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**ELECTRIC UNIT HEATER SCHEDULE**

<table>
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<th>MARK</th>
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<tbody>
<tr>
<td>MANUFACTURER</td>
<td>MANVEL</td>
</tr>
<tr>
<td>MODEL</td>
<td>HORIZON</td>
</tr>
<tr>
<td>LOCATION</td>
<td>WASHROOM</td>
</tr>
<tr>
<td>HEAT OUTPUT (KW)</td>
<td>30</td>
</tr>
<tr>
<td>POWER (V/HZ)</td>
<td>230/1/60</td>
</tr>
<tr>
<td>TOTAL AMP LOAD</td>
<td>3.1</td>
</tr>
<tr>
<td>AIRFLOW (CFM)</td>
<td>450</td>
</tr>
<tr>
<td>MOUNTING HEIGHT (ft. A.F.)</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>NOTES</td>
<td>1. UNIT MOUNTED DISCONNECT AND THERMOSTAT WITH WALL MOUNTING BRACKETS.</td>
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</table>
### MITSUBISHI CITY MULTI VRV OUTDOOR UNIT SCHEDULE

<table>
<thead>
<tr>
<th>Tag Reference</th>
<th>Nominal Cooling Capacity (BTU/h)</th>
<th>Nominal Heating Capacity (BTU/h)</th>
<th>Cooling Efficiency (REMARKS: SEE NOTE 1)</th>
<th>Heating COP (Btu/ft²)</th>
<th>Nom System Connected Capacity (of)</th>
<th>Design Cooling Outdoor Temp (°F)</th>
<th>Design Heating Outdoor Temp (°F)</th>
<th>Max Pipe Length (ft)</th>
<th>RHP/LHP/Pressure Orifice (Size No.)</th>
<th>Connected Cooling Capacity (Btu/h)</th>
<th>Connected Heating Capacity (Btu/h)</th>
<th>Inverter-Driver Component Type / Capacity</th>
<th>Electrical Per Module</th>
<th>Notes / Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-1</td>
<td>72,000</td>
<td>60,000</td>
<td>28.7 / 14.8</td>
<td>4.3</td>
<td>88.7%</td>
<td>98.9</td>
<td>13.5</td>
<td>0</td>
<td>0/8/1/34</td>
<td>48,900</td>
<td>51,300</td>
<td>06 5.1UNI/L1.1 230V230/IV 3-Phase Variable</td>
<td>24/22 36/50</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>C1-2</td>
<td>72,000</td>
<td>60,000</td>
<td>28.7 / 14.8</td>
<td>4.3</td>
<td>88.7%</td>
<td>98.9</td>
<td>13.5</td>
<td>0</td>
<td>0/8/1/34</td>
<td>48,900</td>
<td>51,300</td>
<td>06 5.1UNI/L1.1 230V230/IV 3-Phase Variable</td>
<td>24/22 36/50</td>
<td>1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>

Notes & Options:
1. Nominal cooling capacities are based on indoor coil EAT of 90°F/F (26.7°C), outdoor of 90°F (32°C)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (21°C), outdoor of 40°F (4°C)
3. Efficiency values for EER, SEER, COP are based on AHRI 1282 test method for mixtures of ducted and nonducted indoor units.
4. For systems with multiple modules, refrigerant pipe dimensions of individual circuits combined are the dimensions of module being measured.
5. Listed field changes listed is in addition to factory changes, data must be updated at least upon field or in-system service.

### MITSUBISHI CITY MULTI VRV INDOOR UNIT SCHEDULE

### VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

<table>
<thead>
<tr>
<th>Tag Reference</th>
<th>Model Number</th>
<th>Type (island Main Unit)</th>
<th>Number of Units</th>
<th>Connected Capacity (Btu/h)</th>
<th>NCA 199/230</th>
<th>Notes / Options</th>
</tr>
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<tbody>
<tr>
<td>BC-1</td>
<td>CMB-P100U150-G</td>
<td>Single</td>
<td>5</td>
<td>40,000</td>
<td>0.44 / 0.40</td>
<td>1.2</td>
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<tr>
<td>BC-2</td>
<td>CMB-P150U150-G</td>
<td>Single</td>
<td>5</td>
<td>40,000</td>
<td>0.44 / 0.40</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Notes & Options:
1. Include Pump/Heads Dual Valves E-Model, TRSPSG working pressure, full port, 40% rated
2. Connected Capacity to BC should not exceed 198.8(26.8) for double BCC and 136.8(18.5) for side BCL
GENERAL NOTES
A. REFER TO SHEET E-102 FOR GENERAL NOTES AND POWER LEGENDS.
B. REFER TO SHEET E-103 FOR LIGHTING FIXTURE SCHEDULE AND E-801 FOR PANEL SCHEDULE.
C. REFER TO EQUIPMENT SCHEDULE ON E-801 FOR SPECIFIC CIRCUIT AND DECONNECT INFORMATION. NOT ALL DECONNECTS ARE SHOWN ON THIS SHEET.
### Panel 'MP'

<table>
<thead>
<tr>
<th>Label</th>
<th>Qty</th>
<th>Description</th>
<th>Type</th>
<th>Voltage</th>
<th>Phase</th>
<th>AWG</th>
<th>Conduit</th>
<th>Notes</th>
</tr>
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### Panel 'LB'

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<th>Phase</th>
<th>AWG</th>
<th>Conduit</th>
<th>Notes</th>
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### Panel 'LC'

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<th>AWG</th>
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### Panel 'LP'

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<th>AWG</th>
<th>Conduit</th>
<th>Notes</th>
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### Equipment Schedule

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</tbody>
</table>

**Notes:**
1. Provide branch circuit breaker lug set kit device.
2. Attaching unit: provide a wall mounted or device mounted switch or breaker switch equals to square of meters.
3. Interlock with bathroom light switch.