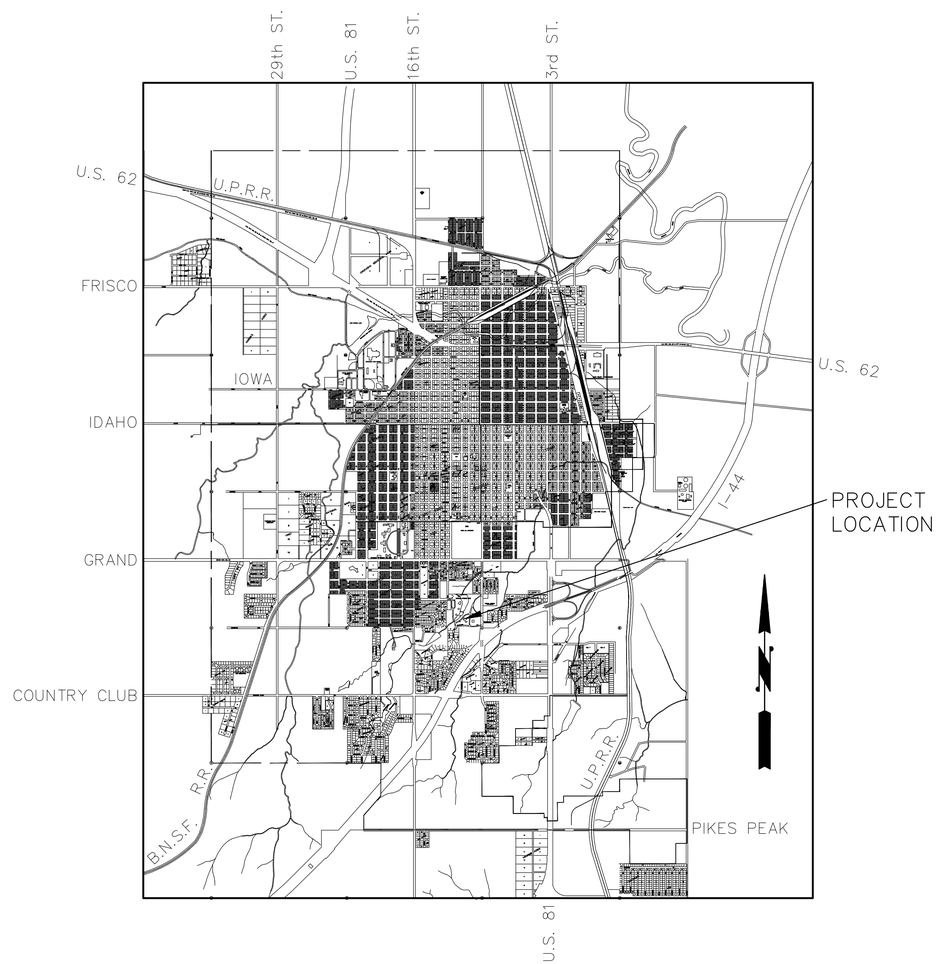
CITY OF CHICKASHA
SHANNON SPRINGS PARK AMPHITHEATER
CITY PROJECT NO. 2016-044

The City of
CHICKASHA

HENRY "HANK" ROSS	Mayor
COUNCIL MEMBERS:	
CHRIS FERGUSON MIKE SUTTERFIELD	Ward 1
KIMBERLY LOGGINS BLAKE ELLIOT	Ward 2
PHYLIS STEELMAN R. P. ASHANTI-ALEXANDER	Ward 3
HOWARD CARPENTER JOHN TOLAND	Ward 4
ALAN GUARD	City Manager
JIM McCLAIN	Public Works Director
TINA SMITH	City Clerk
TOM FRAILEY	City Attorney



VICINITY MAP

SUMMARY OF QUANTITIES

ITEM #	ITEM	UNIT	QUANTITY	AS-BUILT
	QUANTITIES			
1.	TOPSOIL	C.Y.	211	
2.	DRAINAGE FOR SEATING AREAS	L.F.	1048	
3.	ELECTRICAL SLEEVE	L.F.	150	
4.	4" P.C. REGULAR NON-COLORED CONCRETE	S.Y.	376	
5.	4" P.C. INTEGRAL COLORED CONCRETE	S.Y.	215	
6.	BACKDROP	L.S.	1	
7.	BANDSHELL	L.S.	1	
8.	BANDSHELL LIGHTING IMPROVEMENTS	E.A.	1	
9.	STAGE ELECTRICAL IMPROVEMENTS	E.A.	1	
10.	CONSTRUCTION TRAFFIC CONTROL	L.S.	1	
11.	PEDESTRIAN LIGHT POLES	E.A.	6	
12.	SOLID SLAB SOD	S.Y.	1084	
13.	SITE DEMOLITION	L.S.	1	
14.	SILT FENCE	L.F.	40	
	ALTERNATE BID ITEMS			
A1	BAND SHELL WITH METAL ROOF	S.F.	1835	
A2	BAND SHELL SMALLER SIZE	E.A.	1	
A3	BAND SHELL SMALLER SIZE WITH METAL ROOF	S.F.	1485	

SHEET INDEX

SHEET NO.	DESCRIPTION
C-001	COVER SHEET
C-101	DEMOLITION PLAN
C-102	SITE PLAN
C-103	SITE PLAN (ALTERNATE BID ITEM)
C-104	GRADING & EROSION CONTROL PLAN
E-001	ELECTRICAL LEGEND AND GENERAL NOTES
E-801	ELECTRICAL SITE PLANS AND DETAILS
D-101	MISCELLANEOUS DETAILS
D-102	BACKDROP
D-103	BAND SHELL
D-104	BAND SHELL (ALTERNATE BID ITEM)
D-105	SIDEWALKS

ONE CALL UTILITY LOCATION NUMBER

840-5032
1-800-522-6543

This number is to be used for information on the location of all underground utilities. Contact this number and other numbers specified in the plans prior to any excavation.

PREPARED BY: CRAFTON TULL

DATE:

Registered Professional Engineer
No. 20660

214 E. Main
Oklahoma City, Oklahoma 73104
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CERTIFICATE OF AUTHORIZATION:
CA 973 (PE/LS) EXPIRES 6/30/2016

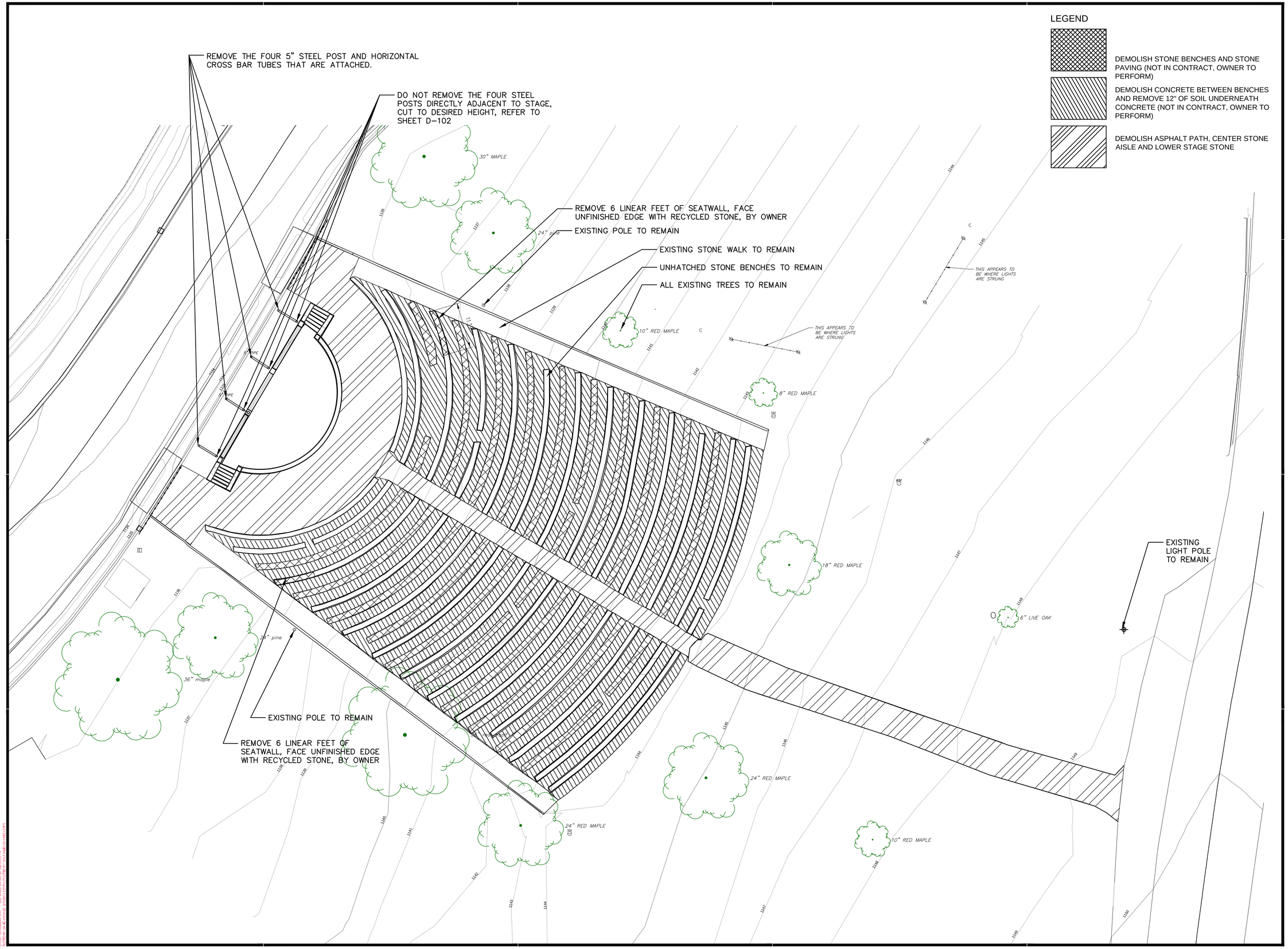
APPROVED:

Mayor: Date:

Attest: Date:

AMPHITHEATER IMPROVEMENTS

JOB NO. 12602200 PROJECT NO. 2013-005



LEGEND

- DEMOLISH STONE BENCHES AND STONE PAVING (NOT IN CONTRACT, OWNER TO PERFORM)
- DEMOLISH CONCRETE BETWEEN BENCHES AND REMOVE 12" OF SOIL UNDERNEATH CONCRETE (NOT IN CONTRACT, OWNER TO PERFORM)
- DEMOLISH ASPHALT PATH, CENTER STONE AISLE AND LOWER STAGE STONE

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GRAPHIC SCALE IN FEET
10' 0 10'

SHANNON SPRINGS PARK AMPHITHEATER

CHICKASHA, OK 73018

Key Plan

No.	Description	Date

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PROJECT NO: 16600700
ISSUE DATE:
CONTACT: D. KNOWLES
CHECKED BY:

ISSUED FOR REVIEW

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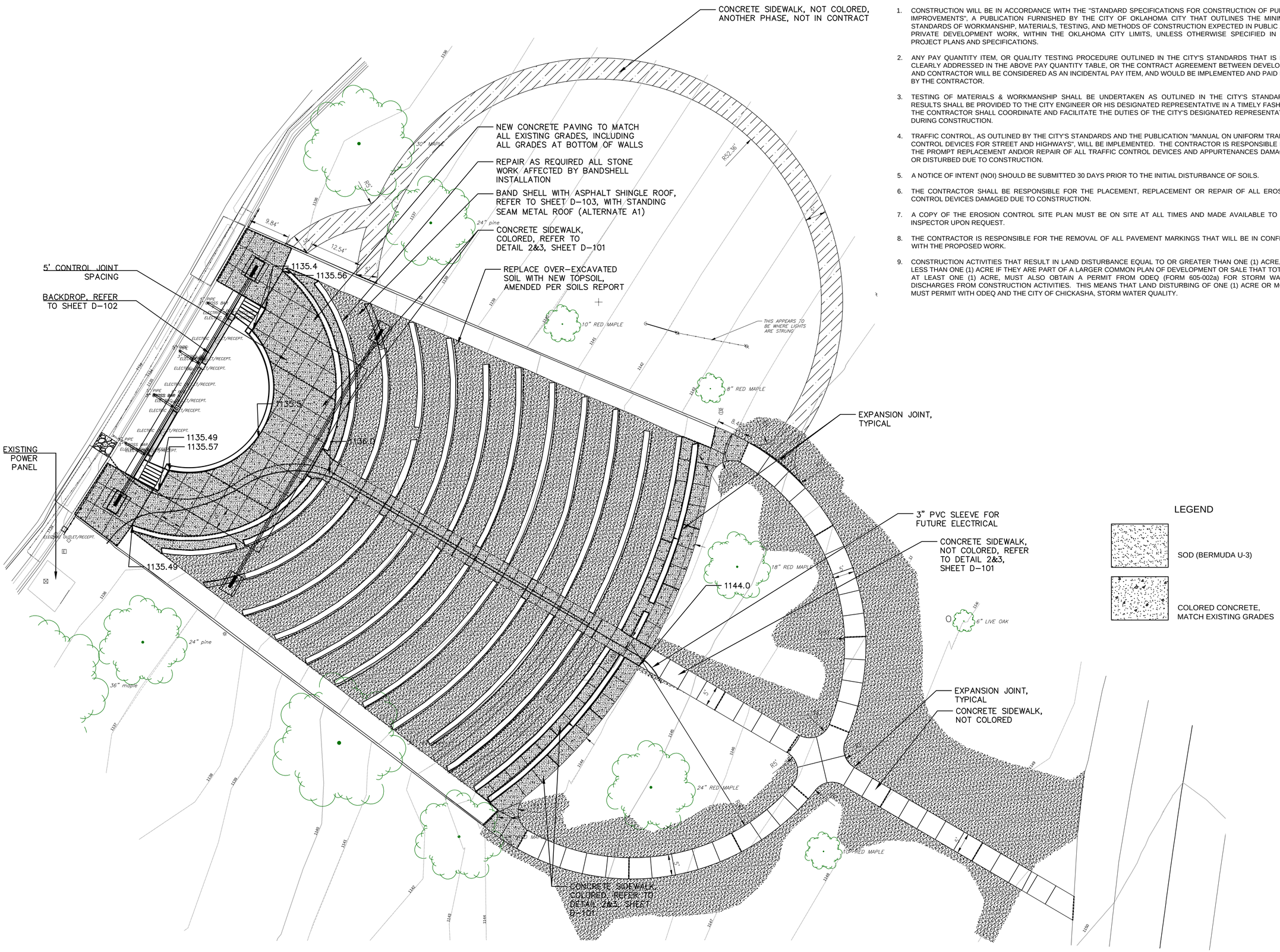
DEMOLITION PLAN

C-101



GENERAL NOTES:

1. CONSTRUCTION WILL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS", A PUBLICATION FURNISHED BY THE CITY OF OKLAHOMA CITY THAT OUTLINES THE MINIMUM STANDARDS OF WORKMANSHIP, MATERIALS, TESTING, AND METHODS OF CONSTRUCTION EXPECTED IN PUBLIC AND PRIVATE DEVELOPMENT WORK, WITHIN THE OKLAHOMA CITY LIMITS, UNLESS OTHERWISE SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS.
2. ANY PAY QUANTITY ITEM, OR QUALITY TESTING PROCEDURE OUTLINED IN THE CITY'S STANDARDS THAT IS NOT CLEARLY ADDRESSED IN THE ABOVE PAY QUANTITY TABLE, OR THE CONTRACT AGREEMENT BETWEEN DEVELOPER AND CONTRACTOR WILL BE CONSIDERED AS AN INCIDENTAL PAY ITEM, AND WOULD BE IMPLEMENTED AND PAID FOR BY THE CONTRACTOR.
3. TESTING OF MATERIALS & WORKMANSHIP SHALL BE UNDERTAKEN AS OUTLINED IN THE CITY'S STANDARDS, RESULTS SHALL BE PROVIDED TO THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE IN A TIMELY FASHION. THE CONTRACTOR SHALL COORDINATE AND FACILITATE THE DUTIES OF THE CITY'S DESIGNATED REPRESENTATIVE DURING CONSTRUCTION.
4. TRAFFIC CONTROL, AS OUTLINED BY THE CITY'S STANDARDS AND THE PUBLICATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS", WILL BE IMPLEMENTED. THE CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REPLACEMENT AND/OR REPAIR OF ALL TRAFFIC CONTROL DEVICES AND APPURTENANCES DAMAGED OR DISTURBED DUE TO CONSTRUCTION.
5. A NOTICE OF INTENT (NOI) SHOULD BE SUBMITTED 30 DAYS PRIOR TO THE INITIAL DISTURBANCE OF SOILS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT, REPLACEMENT OR REPAIR OF ALL EROSION CONTROL DEVICES DAMAGED DUE TO CONSTRUCTION.
7. A COPY OF THE EROSION CONTROL SITE PLAN MUST BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS THAT WILL BE IN CONFLICT WITH THE PROPOSED WORK.
9. CONSTRUCTION ACTIVITIES THAT RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE, OR LESS THAN ONE (1) ACRE IF THEY ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT TOTALS AT LEAST ONE (1) ACRE, MUST ALSO OBTAIN A PERMIT FROM ODEQ (FORM 605-002a) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. THIS MEANS THAT LAND DISTURBING OF ONE (1) ACRE OR MORE MUST PERMIT WITH ODEQ AND THE CITY OF CHICKASHA, STORM WATER QUALITY.

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CHICKASHA, OK 73018

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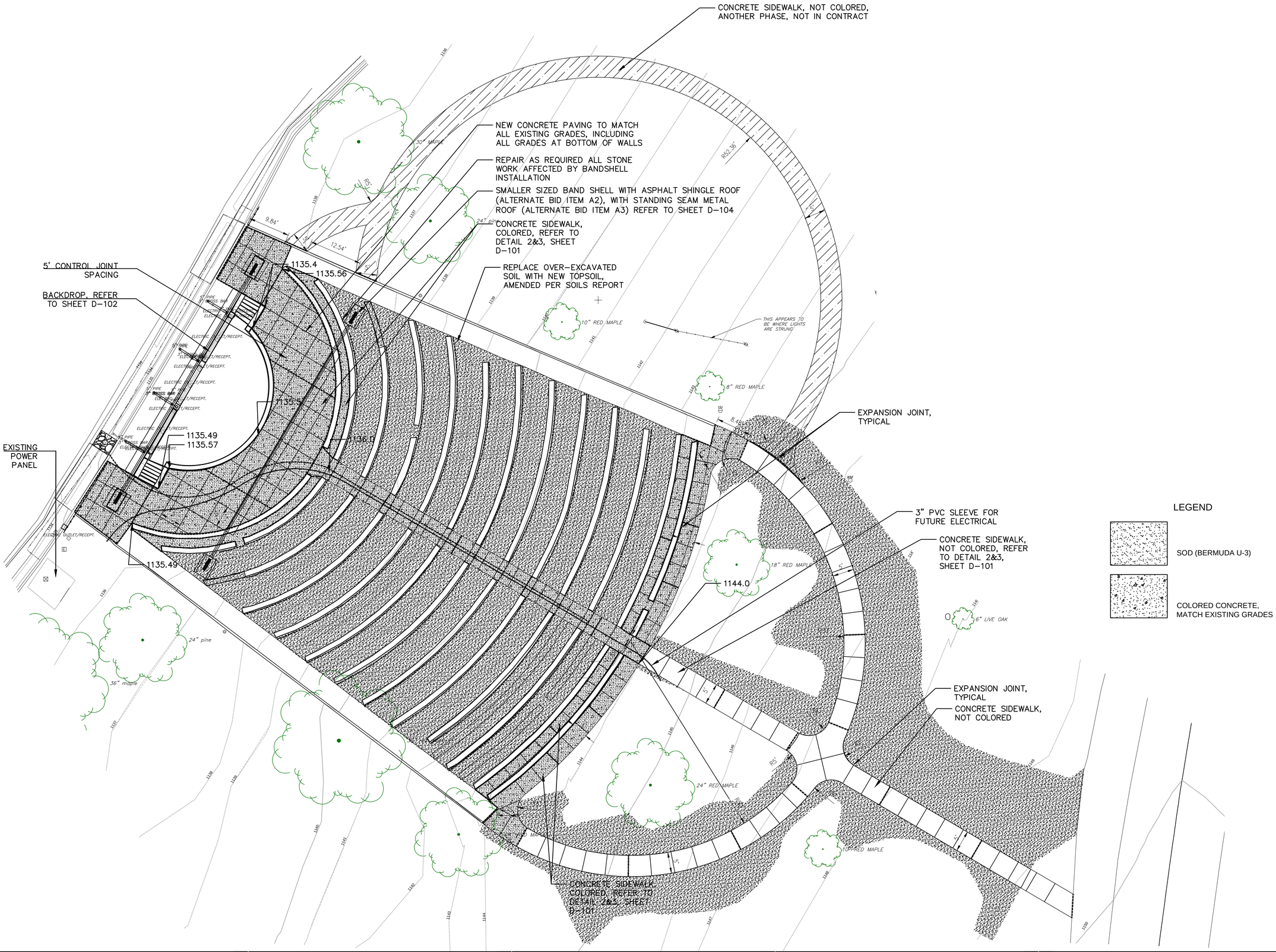
SITE PLAN

C-102

DRAWING: C:\16600700_SHANNON SPRINGS AMPHITHEATER\CFTA\CFTA\DWG\BUILDING\
LAYOUT: C-102 SITE PLAN, LAST REVISED: 10/28/2015 1:11:42 PM, PLOTTED: 10/28/2015 1:11:44 PM
PLOTTED BY: DAN BRUNDIGE, INTERNATIONAL PAPER, SUPPORT@CRAFTONTULL.COM



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SITE PLAN ALTERNATE

C-103

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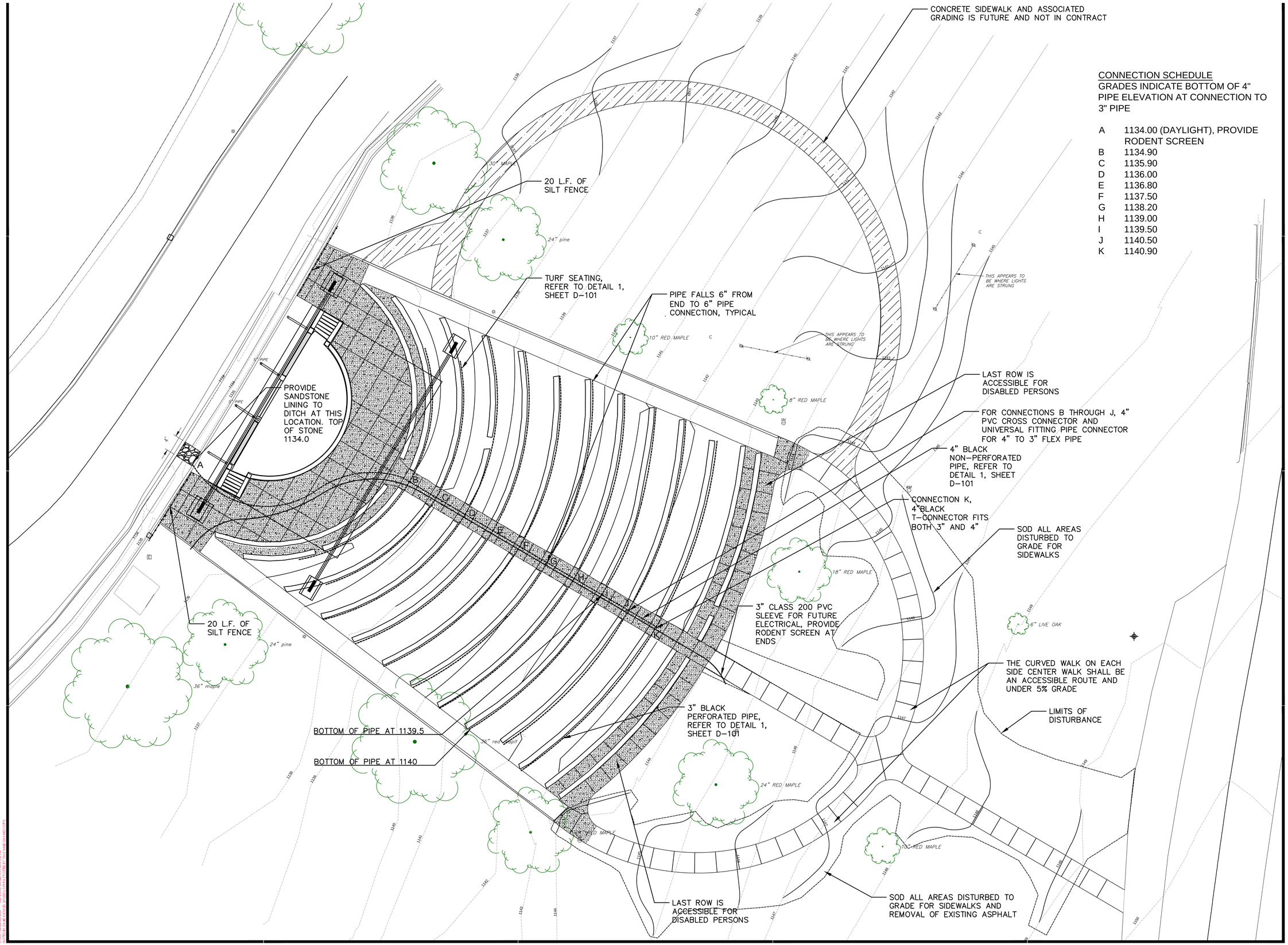

CONNECTION SCHEDULE

GRADES INDICATE BOTTOM OF 4" PIPE ELEVATION AT CONNECTION TO 3" PIPE

A	1134.00 (DAYLIGHT), PROVIDE RODENT SCREEN
B	1134.90
C	1135.90
D	1136.00
E	1136.80
F	1137.50
G	1138.20
H	1139.00
I	1139.50
J	1140.50
K	1140.90

GRAPHIC SCALE IN FEET
10' 0 10'

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GRADING & EROSION CONTROL PLAN

C-104

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

A. Furnish labor, materials, apparatus, tools, equipment, transportation, temporary construction and services as required to make a complete working electrical installation, as shown on the drawings or described in these specifications. The work shall include materials, appliances, and apparatus not specifically mentioned herein or noted on drawings, but required for a complete installation, in addition, it shall include connection, inter-connection, and power for electrical equipment furnished under other sections.

B. It is the intent of this Section of the Specifications and accompanying Electrical Drawings to require these systems to be furnished complete in every respect, furnish all wiring and equipment needed and usually furnished in connection with such work, whether specifically mentioned or not.

C. Contractor shall review all contract documents including, but not limited to, architectural ceiling plans, architectural details, door hardware schedules, and mechanical documents. All power service wiring, branch circuit wiring, control wiring, or other wiring necessary for complete operation of equipment or fixtures not specifically required to be installed under another section of this specification, shall be provided whether or not such wiring is specifically shown on electrical drawings or described in Division 26 specifications.

D. Contractor shall visit the site to become familiar with existing conditions. Electrical work shall be done in accordance with NEC and all applicable federal, state, and local codes.

1.3 PERMITS

A. Procure all necessary permits for work installed; pay all fees and charges connected herein. Deliver certificates of approval by authorities having jurisdiction over work, to the Owner, before the work will be finally accepted.

B. Contact the local power company prior to bidding the project to verify all requirements and, upon being awarded the contract, shall make all arrangements, pay all fees, and acquire all permits as required for the installation of the electrical service and systems as hereinafter specified and shown. The contractor shall hold the Owner harmless for any costs required for initial connections to utility lines.

1.4 UNDER-SLAB UTILITIES

A. Dimensions for all under-slab utilities are critical for later equipment installation. Cross reference all Drawings and Equipment Specifications with this work including the elevations showing dimensional location of all stubs for equipment.

1.5 GUARANTEES AND INSTRUCTIONS

A. Guarantee all equipment, systems and work furnished and installed under this Section for a period of one (1) year from date of substantial completion thereof, against defects in material, design and workmanship.

B. Failure of any part or parts during guarantee, owing to above causes, shall be replaced promptly upon notice by Architect, without charge to the Owner.

1.6 COORDINATE WITH OTHER TRADES

A. The Electrical Contractor shall check with the General Contractor and other contractors, either under his control or those responsible solely to the Owner for any work being performed under this specification to determine whether there will be any interference with the electrical work. If the Electrical Contractor fails to coordinate with other contractors and the electrical work is later found to interfere with their work, then he shall make necessary changes without additional cost or delay to the Owner to eliminate such interferences.

B. Refer to Mechanical Drawings and Specifications for Heating, Ventilating & Air Conditioning equipment selected and make whatever adjustments to wire sizes, breakers and switches necessary for proper operation and as per code or utility company requirements.

C. Electrically operated equipment furnished and installed under other Sections shall be connected under this Section, including heating and air conditioning units, exhaust fans, thermostats, controls, or Owner's equipment.

D. Refer to the Drawings and do all wiring for all exhaust fans as required.

PART 2 - PRODUCTS

2.1 CONDUCTORS AND CABLES

A. Unless specifically indicated on drawings or herein, conductors, shall be single conductor, copper, insulated for 600 volts, manufacturer's standard product, and marked as required by NEC type of insulation shall be as follows:
1. Service conductor to be THW, XHHW, OR THWN.
2. Branch circuits and feeders no. 8 and smaller to be type THHN, THWN, XHHW.
3. No. 8 or larger shall be stranded. No. 10 and smaller shall be solid.
4. Minimum branch circuit conductor size to be no. 12. Line voltage control wiring may be no. 14 where properly protected by overcurrent device.
5. Low voltage control (thermostat, etc.) Circuits shall utilize 18 gauge, 600 volt, multi-conductor copper cable, unless shown otherwise.
6. Make splices and terminations only in accessible boxes, wireways, cabinets, or fixtures.
7. AluminumandCopper Conductors: Comply with NEMA WC 70/ICEA S-95-658.
8. Conductor Insulation: Comply with NEMA WC 70/ICEA S-95-658 for Type THW-2, Type THHN/THWN-2, Type XHHW-2, Type UF, Type USE, and Type SO.
9. Multiconductor Cable: Comply with NEMA WC 70/ICEA S-95-658 for armored cable, Type AC, metal-clad cable, Type MC, nonmetallic-sheathed cable, Type NM, Type SO, and Type USE with ground wire.

2.2 CONNECTORS AND SPLICES

A. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.3 SYSTEM DESCRIPTION

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. Comply with NFPA 70.

2.4 RACEWAYS AND FITTINGS

A. All wiring shall be in electrical metallic tubing (emt) unless sown otherwise on drawings.
1. Conduit, in general, shall be concealed in all finished areas.
2. Conduits shall be of size shown on drawings. If size is omitted, determine from NEC
3. Conduit connections to boxes of sheet steel to be made with proper fittings such as locknuts or box connectors made up tight so as to assure effective electrical continuity.
4. Outlet and junction boxes generally shall be of code gauge galvanized steel, 1 1/2 inch minimum depth. Boxes supporting lighting fixtures shall be equipped with fixture stud. Leave no unused openings. Boxes to be equal to Steel City or Hubbell.
5. Low voltage shall be run according to NEC article 720 and local jurisdiction.
6. MC Cable is not permitted except for lighting fixture connections, max. 6' length.

2.5 ELECTRICAL SUPPORTING DEVICES

A. Single conduit runs shall be supported by one hole zinc coated conduit strap similar to Appleton SL series or conduit hangers similar to Appleton H—W/B or H—SWB series.

B. Multiple horizontal conduit runs shall be supported on trapeze type hangers consisting of structural support equal to Unistrut 1 5/8 inch x 1 5/8 inch Briteline with two 3/8 inch non rusting rods. Secure conduits to support with Unistrut clamps.

2.6 GROUNDING SYSTEM

A. All items required to be grounded by article 250 of the NEC shall be grounded as provided therein or as shown on the drawings. All raceways shall include green insulated grounding conductor.

B. Bonding shall be provided when required to assure electrical continuity.

2.7 ELECTRICAL DISTRIBUTION SYSTEM

A. Branch circuits: where branch circuits are run exposed, they shall be run parallel with walls, ceilings, and floors.

B. Concealed conduit shall be run the shortest box to box route, avoiding conflicts with other trades.

2.8 WIRING DEVICES

A. Wiring devices shall be equal in quality, function and general appearance to the following:
1. Flush wall switches: 20A, 120/277V, specification grade, equal to 1221-I Hubbell for single pole. Furnish 2-pole, 3-way, etc., as required, same series.
2. Wall receptacles: 20A, 125V, 2P, 3W, grounding, NEMA 5-20R specification grade; equal to 5362-I Hubbell receptacles to be duplex as indicated on drawings.
   a. Single convenience receptacle: 53611 Hubbell.
   b. GFCI receptacle: GF53621 Hubbell.
   c. Telephone jack (four conductor): CX141 Hubbell.
3. Refer to architectural finish schedule for color.

2.9 LIGHTING FIXTURES

A. Electrical contractor shall furnish all lighting fixtures complete with lamps, mounting accessories, etc., as shown on Lighting Fixture Schedule. Fixture frames, etc., shall be appropriate for finish.

2.10 SAFETY AND DISCONNECT SWITCHES

A. Safety and disconnect switches shall be heavy duty type, quick make, quick break fused with ratings and sizes as noted on plans and required by codes. Lug connections to be 75°c rated.

B. Switches shall be weather proof in outdoor locations or as required by local codes. Disconnect switches that are installed at HVAC equipment shall be fused if not protected with a HACR breaker in accordance with equipment name plate and manufacturer's requirement per the NEC, state and local codes.

C. Manual motor starters less overload protection heaters are to be used as a disconnecting means only where indicated on drawings for motors above 1 1/2hp at 120 volts and 2hp at 240 volts that do not require auxiliary control. Motors that are below 1 1/2hp at 120 volts and 2hp at 240 volts are to be provided with Hubbell "HBL1221" or "HBL1222" or equivalent ac switch.

D. Manufacturer shall be Square "D" or approved equal.

E. Fuses shall be Bussman current limiting time delay, type LPS and/or type KRPC, as required.

2.11 PANELBOARDS

A. All panelboards shall be factory assembled of the bolted circuit breaker type with solid copper bussing, fully sized copper neutral, 100% ground bussing, and overall hinged/lockable door. All circuit breakers shall be of the quick break design. Thermal magnetic type, trip free and trip indicating. All panels shall be dead front and flush mounted switching duty rate.

B. Contractor shall furnish and install a type written directory card of the circuits and place in panel door for new and existing panels.

C. All panelboards phase amperage shall be balanced to within 10 percent Max. to Min. reassurance non lighting branch circuits as required and note changes on record drawings.

D. All lug connections to be 75°C rated.

E. Manufacturer: Match Existing.

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

A. Cooperate with other Sections for the proper execution of electrical work. Supply and cooperate in the placement of inserts, sleeves and other equipment to be installed in masonry. Carefully cut necessary holes for the installation of equipment and patch in such a manner as to match the original work.

3.2 SERVICE INSTALLATION/UNDERGROUND WORK

A. The Contractor shall notify One-Call services for underground utility locations at least 48 hours prior to trenching, digging, or excavation.

B. See Site Plan for service to building. Include any changes required in the Electrical panels, switches, motors, wiring, breaker sizes, and equipment necessary to adapt to the service available, the requirements of the Utility Company, Local Codes or the size of Heating, Ventilating & Air Conditioning equipment specified.

3.3 ROUGH-IN

A. Verify final locations for rough-ins with field measurements and with the requirements of the actual equipment to be connected.

B. Refer to drawings and equipment specifications for rough-in requirements.

C. Owner reserves the right to approve final location of all outlet boxes prior to rough-in and may opt to move diagrammatic location indicated on Contract Drawings up to six feet horizontally, ten feet vertically.

3.4 CUTTING AND PATCHING

A. General: Perform cutting and patching in accordance with General Conditions.

B. Protection of Installed Work: During cutting and patching operations, protect adjacent installations.

C. Provide and maintain temporary partitions or dust barriers adequate to prevent the spread of dust and dirt to adjacent areas.

D. Do not endanger or damage installed work through procedures and processes of cutting and patching.

E. Arrange for repairs required to restore other work because of damage caused as a resultof electrical installations.

F. No additional compensation will be authorized for cutting and patching work that is necessitated by ill-timed, defective, or non-conforming installations.

G. Perform cutting, fitting, and patching of electrical equipment and materials required to:
1. Uncover work to provide for installation of ill-timed work.
2. Remove and replace defective work.
3. Remove and replace work not conforming to requirements of the Contract Documents.
4. Remove samples of installed work as specified for testing.
5. Upon written instructions from the Architect, uncover and restore work to + provide for Architect observation of concealed work.

H. Locate, identify, and protect electrical services passing through remodeling or demolition area and serving other areas required to be maintained operational. When transit services must be interrupted, provide temporary services for the affected areas and notify the Owner prior to changeover.

I. Cut, remove, and legally dispose of selected electrical equipment, components, and materials as indicated, including but not limited to removal of electrical items indicated to be removed and items made obsolete by the new work.

J. Protect the structure, furnishings, finishes, and adjacent materials not indicated or scheduled to be removed.

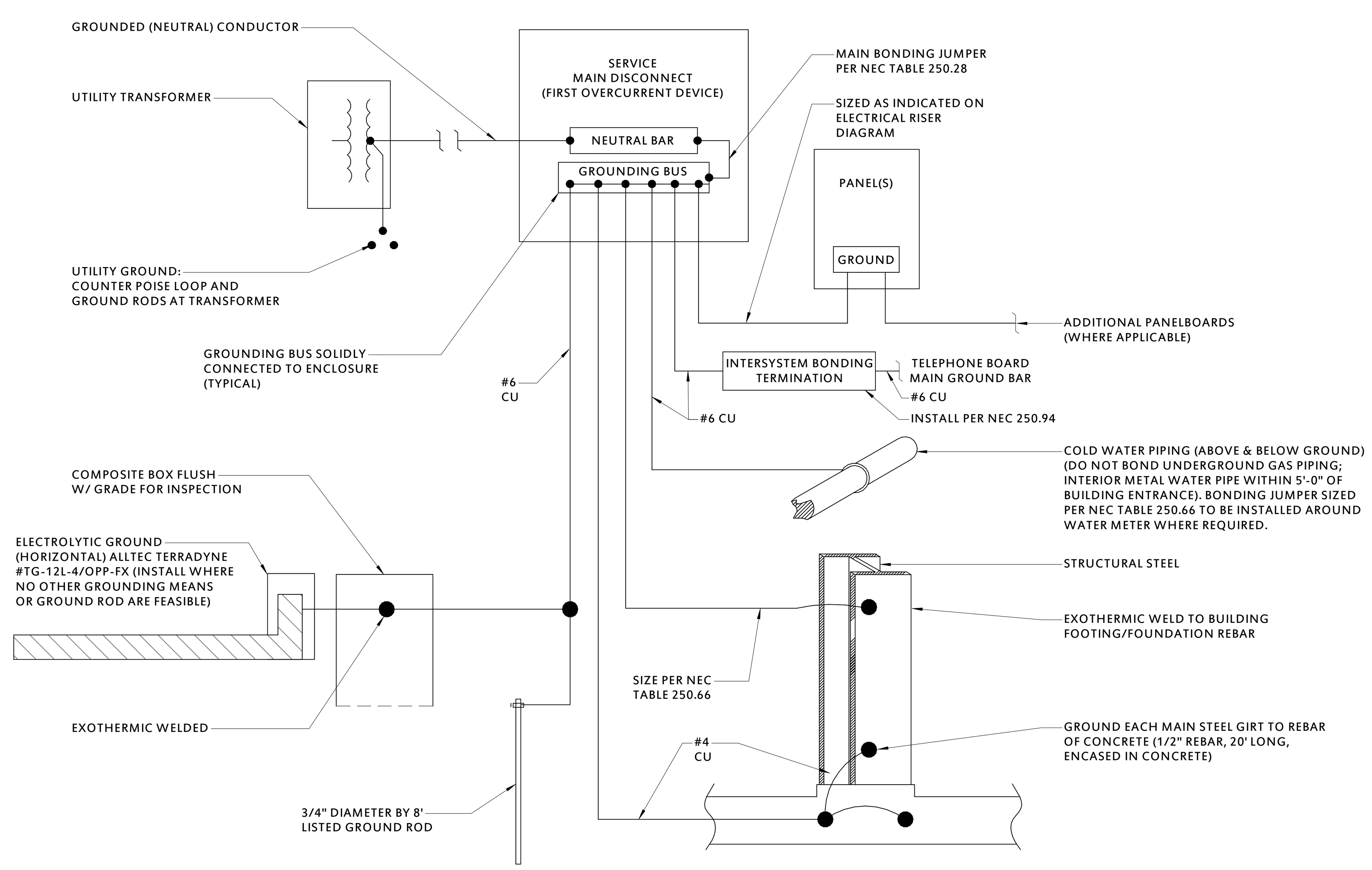
GENERAL NOTES:

1. WHERE STATED ELECTRICAL CONTRACTOR IS TO PROVIDE MATERIAL, IT IS TO BE KNOWN THAT PROVIDE MEANS TO FURNISH AND INSTALL.
2. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE ALL EXISTING CONDITIONS AND THE EXTENT OF WORK TO BE DONE.
3. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE STATE IN WHICH THIS PROJECT WILL BE COMPLETED. CONTRACTOR SHALL MAINTAIN A COPY OF THEIR LICENSE AGREEMENT WITH THEM TO SHOW TO INSPECTORS WHERE REQUIRED BY LOCAL CODES.
4. CONTACT UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL FEES REQUIRED FOR CONNECTION OF THE UTILITIES.
5. PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING TO JOB SITE, AS REQUIRED.
6. PROVIDE A GROUNDING CONDUCTOR IN ALL RACEWAYS, SIZED PER NATIONAL ELECTRICAL CODE.
7. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
8. ALL WIRING DEVICES SHALL BE INSTALLED PLUMB, SQUARE, AND TRUE. ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED.
9. ALL WIRING DEVICES TO BE MOUNTED AS LISTED BELOW (TO CENTER OF DEVICE) UNLESS NOTED OTHERWISE ON DRAWINGS:
   +18" AFF RECEPTACLE
   +18" AFF DATA OUTLET
   +46" AFF SWITCH
   ADJUST TO COORDINATE WITH MASONRY IF REQUIRED. REFER TO ARCHITECTURAL DRAWINGS BEFORE STARTING WORK.
10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL SWITCHES, RECEPTACLES, AND FIXED EQUIPMENT WITH THE BRANCH CIRCUIT PANEL NAME AND NUMBER SERVING EACH DEVICE.
11. ALL DEVICE PLATES, OUTLET COVERS, ETC., FINISH/COLOR AS SPECIFIED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
12. PROVIDE UNSWITCHED POWER TO ALL EXIT LIGHTS AND BATTERY CHARGING CIRCUIT OF EMERGENCY LIGHT FIXTURES.
13. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHTS AND CEILING TYPES.
14. EXISTING ELECTRICAL EQUIPMENT LAYOUT (LIGHT FIXTURES, RECEPTACLES AND DATA OUTLETS, ETC) ARE BASED ON AS-BUILT DRAWINGS AND/OR FIELD OBSERVATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS IN FIELD.
15. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE SPECIFIED.
16. ALL CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL OTHER TRADES.
17. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR CEILING. NO CONDUITS SHALL BE SURFACE MOUNTED, UNLESS SPECIFIED.
18. WHERE CONDUIT IS SURFACE MOUNTED IN EXPOSED LOCATIONS, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, GROUPED WHERE PRACTICAL, AND PAINTED TO MATCH SURROUNDING FINISHES. COORDINATE CONDUIT ROUTING AND ALL PENETRATIONS THROUGH FINISHED SURFACES WITH ALL OTHER DISCIPLINES AS REQUIRED.
19. PROVIDE FIRESTOP AT ALL PENETRATIONS IN FIRE ENVELOPES. ALL DATA CABLES THROUGH FIREWALLS AND OUT OF IT ROOMS TO BE INSTALLED IN A STI FIRESTOP WIREWAY.
20. COORDINATE ALL INTERLOCK WIRING REQUIREMENTS WITH HVAC CONTRACTOR. PROVIDE BACK BOXES AT ALL THERMOSTAT AND CO2 LOCATIONS WITH 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING.

ELECTRICAL SYMBOL LEGEND

(NOTE: ALL SYMBOLS MAY NOT BE USED)

Symbol	Description
A a	LIGHTING FIXTURE A=FIXTURE TYPE a=SWITCH DESIGNATION
A a	LIGHTING FIXTURE ON EMERGENCY POWER (PART OR ALL)
A	DOWN LIGHT/PENDANT LIGHTING FIXTURE
A	DOWN LIGHT/PENDANT LIGHTING FIXTURE ON EMERGENCY POWER
A	SCONCE/WALL PACK LIGHTING FIXTURE
A	SCONCE/WALL PACK LIGHTING FIXTURE ON EMERGENCY POWER
A	TRACK LIGHTING FIXTURE
A	SITE LIGHTING POLE (1,2,3,4 HEADS AS INDICATED ON PLANS)
A	CEILING FAN (A=WITH LIGHT FIXTURE)
	EXIT SIGN (SINGLE FACE, DOUBLE FACE) (ARROW DENOTES DIRECTION)
	EXIT SIGN WITH INTEGRAL EMERGENCY LIGHT
	BATTERY POWERED EMERGENCY LIGHT
$	SINGLE POLE SWITCH
$a	SINGLE POLE SWITCH - (a) MULTILEVEL SWITCHING DESIGNATION
$2	TWO POLE SWITCH
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$C	INTERCOM CALL SWITCH
$D	DIMMER SWITCH
$K	KEY-OPERATED SWITCH
$L	LOW VOLTAGE SWITCH
$M	MANUAL MOTOR STARTER
$MC	MOMENTARY CONTACT SWITCH
$OS	OCCUPANCY SENSOR SWITCH
$P	SWITCH W/ PILOT LAMP
$RL	RAISE-LOWER SWITCH
$V	VOLUME CONTROL SWITCH
$VS	VACANCY SENSOR SWITCH
$T	TIMER SWITCH
$#B	DIGITAL CONTROL SWITCH - (#B) # OF BUTTONS
OS x	OCCUPANCY SENSOR (C-CEILING, W-WALL MOUNT)
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRA-PLEX RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	SPECIAL RECEPTACLE
	FLOOR BOX - RECEPTACLE/DATA/TELEPHONE
	TELEPHONE OUTLET
	DATA OUTLET
	COMBINATION DATA OUTLET (TELEPHONE, COMPUTER, ETC.)
AP	WIRELESS ACCESS POINT (CABLE ONLY)
S	SPEAKER
TV	CABLE TV OUTLET (CABLE ONLY)
M	MICROPHONE OUTLET
	SECURITY/ TV CAMERA
EX	EXIT REQUEST
CR	CARD READER
DH	DOOR HOLDER
ML	MAGNETIC LOCKS
CH	CHIME
	DOOR BELL
	BUZZER
	PUSHBUTTON
HC	ADA DOOR ACTUATOR PUSHBUTTON
DS	DOOR SWITCH
	PUSH BUTTON - UP/DOWN/STOP
PP	UTILITY POWER POLE
J	JUNCTION BOX
P	SERVICE POLE
x	MOTOR CONNECTION (NO. DENOTES HP)
Sx	DISCONNECT SWITCH (DESIGNATION, SEE SWITCH SCHEDULE)
	CONTACTOR
	MOTOR STARTER
	COMBINATION STARTER-DISCONNECT
T	TRANSFORMER
	METER
	CLOCK OUTLET 6" BELOW CEILING
PE	PHOTO ELECTRIC CONTROL SENSOR
TC	TIME CLOCK CONTROLLER
FLUSH / SURFACE	PANELBOARDS
	DISTRIBUTION BOARD
	MULTI-USE PANEL
ICM	INTERCOM MASTER
IC	INTERCOM
	SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
RFCP	REMOTE FIRE ALARM CONTROL PANEL
	WEATHERHEAD
	SURFACE PLUGMOLD STRIP
	ELECTRICAL GROUND
	CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
	CONDUIT CONCEALED IN OR UNDER FLOORS
E	EMERGENCY CIRCUIT
	DEMOLITION
LHD	LINEAR HEAT DETECTION CABLE
OHE	OVERHEAD ELECTRICAL
OHP	OVERHEAD PRIMARY
OHS	OVERHEAD SECONDARY
OHT	OVERHEAD TELEPHONE
OHC	OVERHEAD COMMUNICATION
OHTV	OVERHEAD TELEVISION
OHFA	OVERHEAD FIRE ALARM
UGE	UNDERGROUND ELECTRICAL
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UGT	UNDERGROUND TELEPHONE
UGC	UNDERGROUND COMMUNICATION
UGTV	UNDERGROUND TELEVISION
UGFA	UNDERGROUND FIRE ALARM
	CONDUIT HOMERUN (ARROWS DENOTED NO. OF CKTS)
AM	ABOVE MILLWORK
AFF	ABOVE FINISHED FLOOR, MIDDLE OF DEVICE
AFG	ABOVE FINISHED GRADE
EWC	ELECTRIC WATER COOLER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
IG	ISOLATED GROUND
NF	NON-FUSIBLE
NL	NIGHT LIGHT
NS	NON-SWITCHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE UNIT
WP	WEATHERPROOF DEVICE
WR	WEATHERPROOF RATED



NOTE: BOND ALL STRUCTURAL STEEL AND INTERIOR METALLIC PIPING, INCLUDING BUT NOT LIMITED TO GAS PIPING AND FIRE SPRINKLER PIPING, PER NEC 250.104.

1 GROUNDING DIAGRAM

N.T.S.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND MODEL NO	VOLTS	WATTS	LAMP	MOUNTING	NOTES
			0 V	0 W			

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SHANNON SPRINGS PARK AMPITHEATER

CHICKASHA, OK
73018

Key Plan

No.	Description	Date

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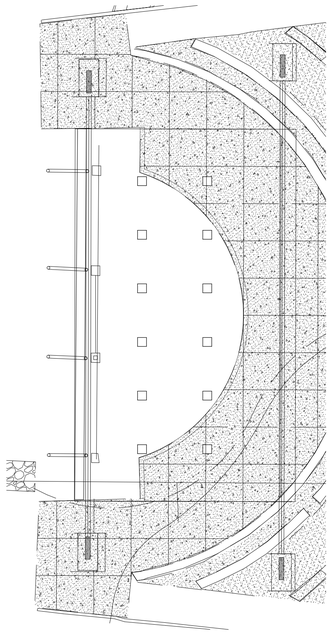
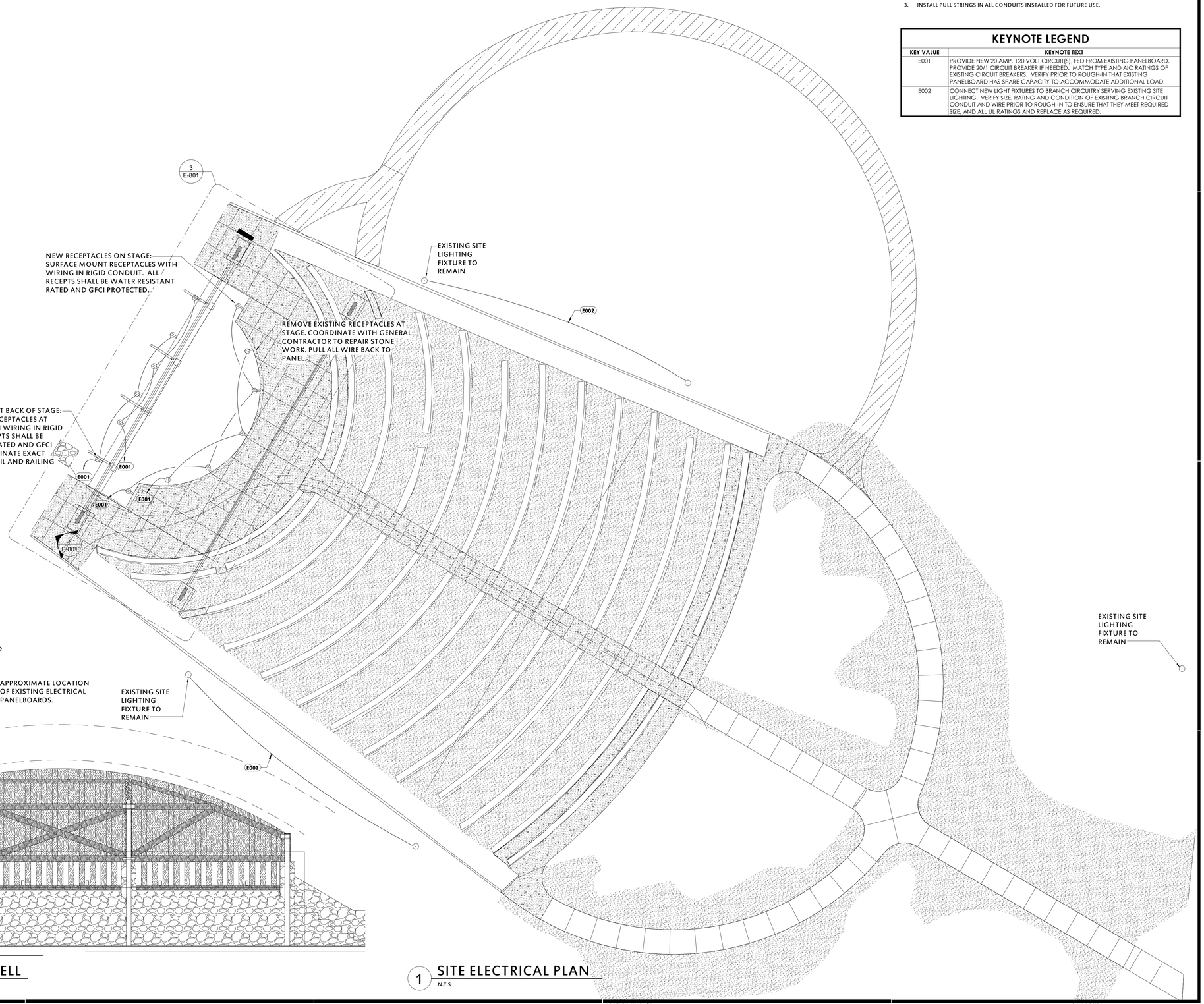
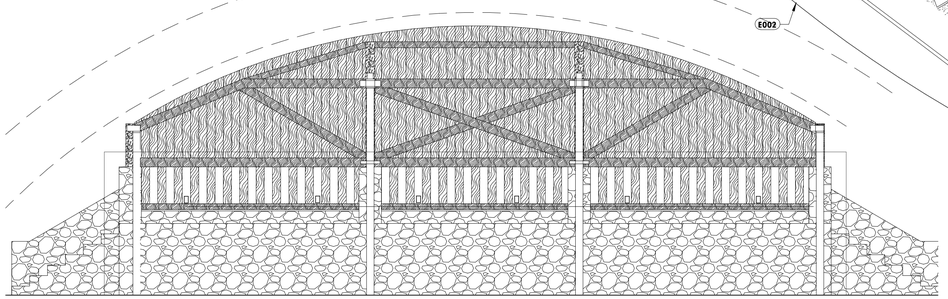
ELECTRICAL LEGEND AND GENERAL NOTES

E-001



3 STAGE LIGHTING PLAN
N.T.S





2 REAR ELEVATION - BANDSHELL
N.T.S

1 SITE ELECTRICAL PLAN
N.T.S

ELECTRICAL SITE GENERAL NOTES

1. SITE LIGHTING: INSTALL FIXTURES AND POLES. PROVIDE LAMPS, POLE BASES AND INDICATED CIRCUITRY TO SITE LIGHTING FIXTURES AS REQUIRED. COORDINATE WITH CIVIL FOR POLE BASE DETAIL(S).
2. INSTALL ALL UNDERGROUND CONDUCTORS IN SCHEDULE 40 CONDUIT WITH RIGID CONDUIT LONG SWEEP ELBOWS.
3. INSTALL PULL STRINGS IN ALL CONDUITS INSTALLED FOR FUTURE USE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
E001	PROVIDE NEW 20 AMP, 120 VOLT CIRCUIT(S), FED FROM EXISTING PANELBOARD. PROVIDE 20/1 CIRCUIT BREAKER IF NEEDED. MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS. VERIFY PRIOR TO ROUGH-IN THAT EXISTING PANELBOARD HAS SPARE CAPACITY TO ACCOMMODATE ADDITIONAL LOAD.
E002	CONNECT NEW LIGHT FIXTURES TO BRANCH CIRCUITRY SERVING EXISTING SITE LIGHTING. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO ROUGH-IN TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL UL RATINGS AND REPLACE AS REQUIRED.

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ELECTRICAL ENGINEER:
JENNIFER C KEITH, PE
PO BOX 7503
SPRINGDALE, AR 72766

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ELECTRICAL SITE PLANS AND DETAILS

E-801

3/11/2016 4:40:10 PM
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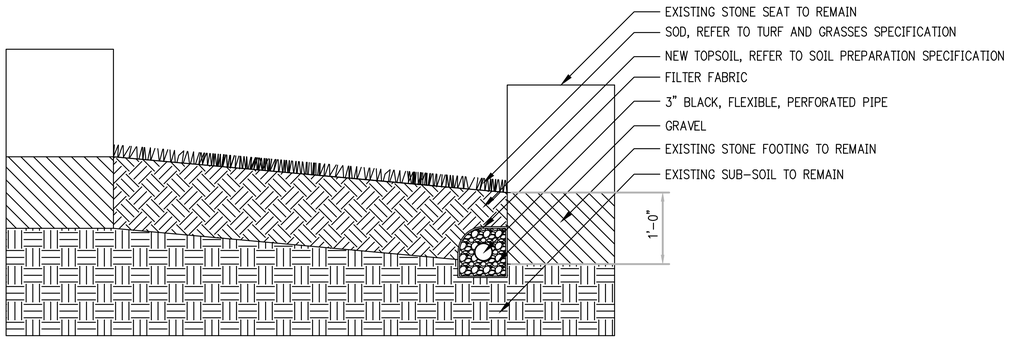

1 TURF SEATING
1" = 1'-0"

0 6" 1' 2'
SCALE: 1" = 1'-0"

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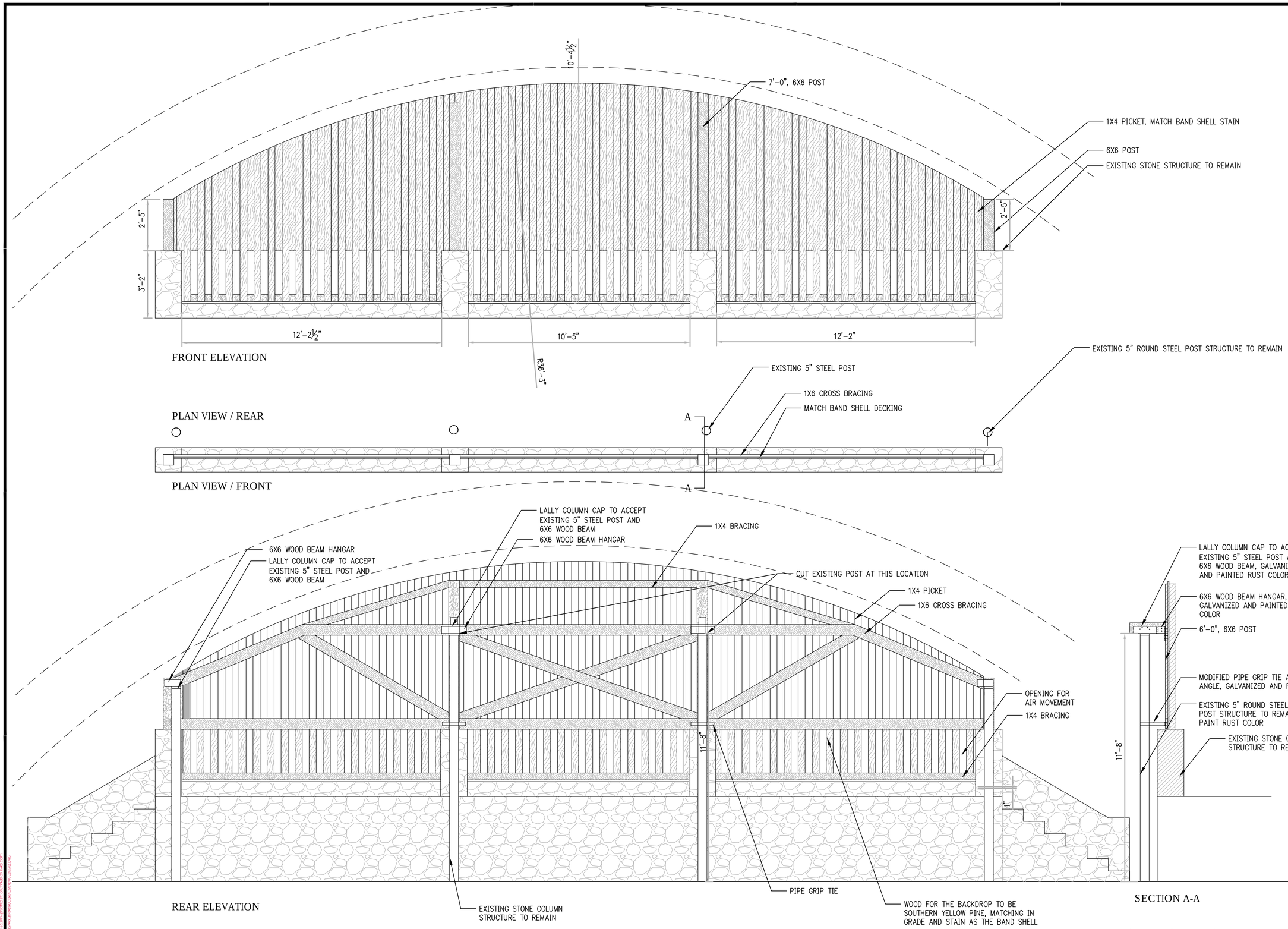
MISCELLANEOUS DETAILS

D-101



1 BACKDROP

1/2" = 1'-0"

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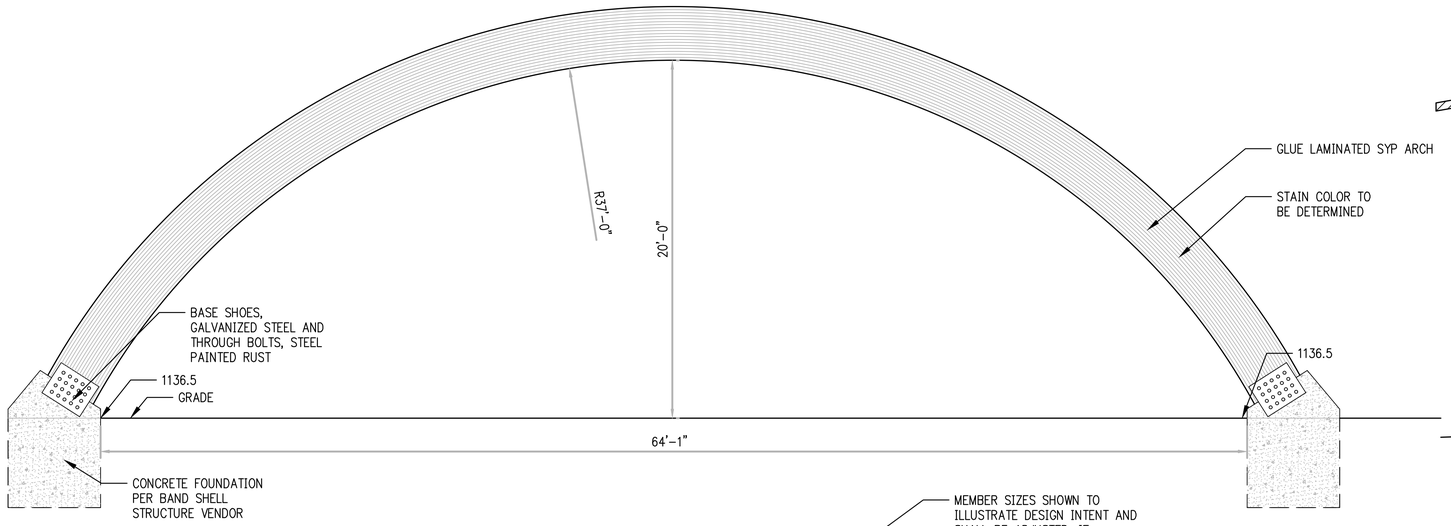
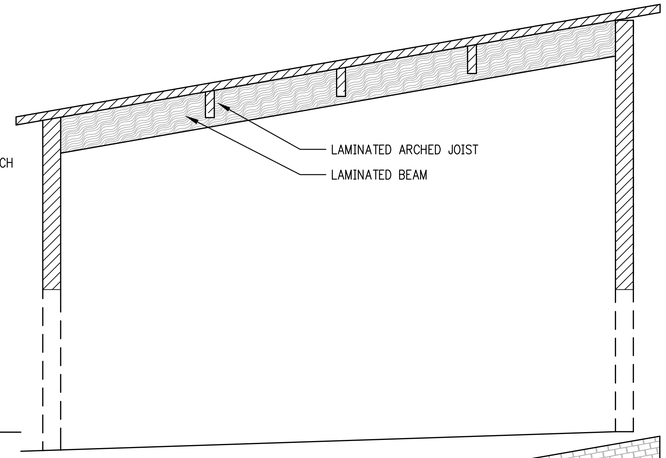
BACKDROP

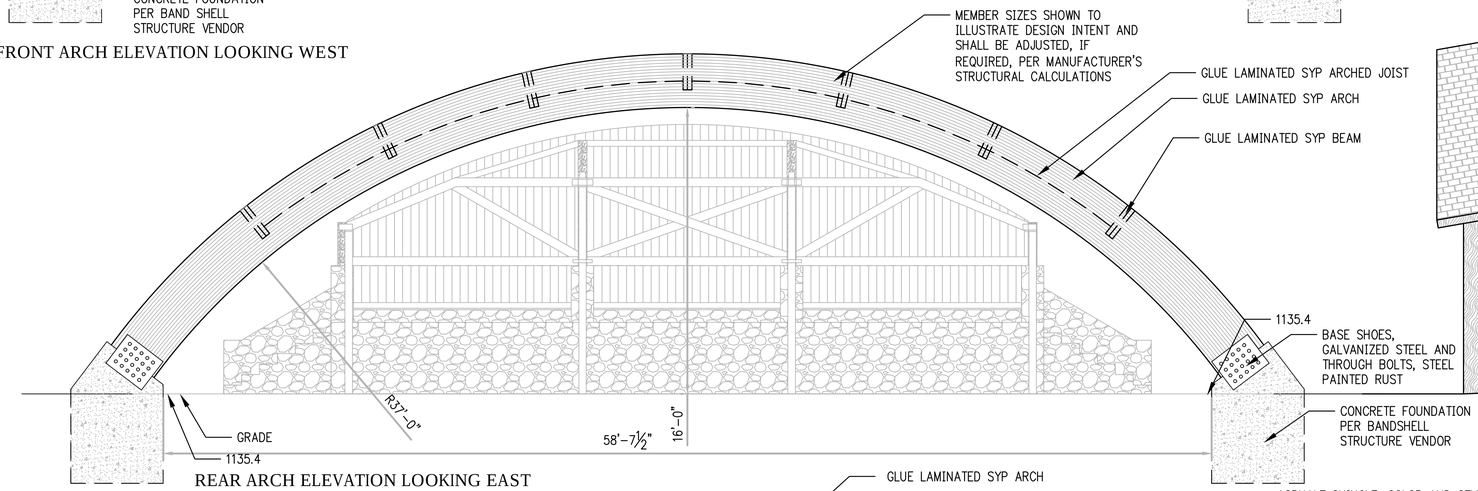
D-102



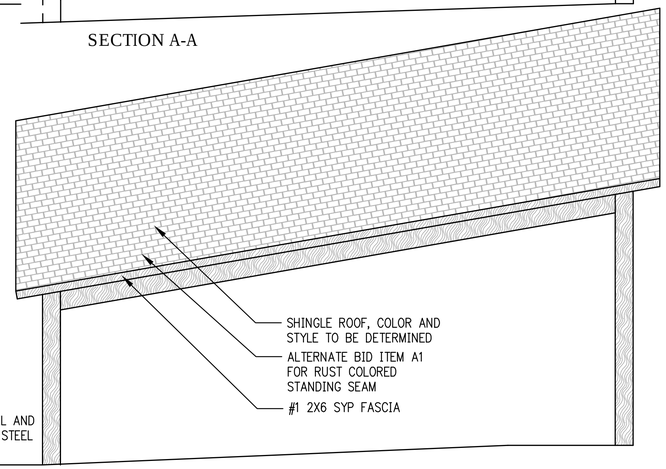
FRONT ARCH ELEVATION LOOKING WEST



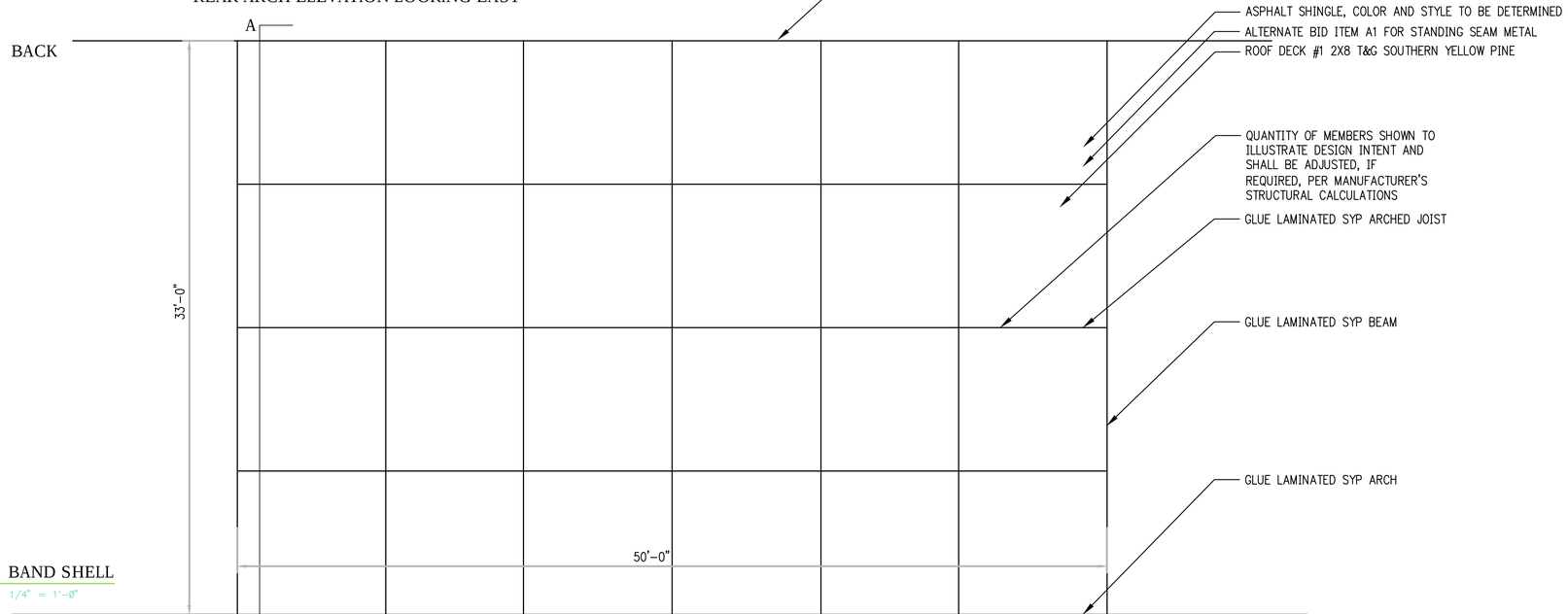
SECTION A-A



REAR ARCH ELEVATION LOOKING EAST



SIDE ELEVATION



1 BAND SHELL
1/4" = 1'-0"

PLAN VIEW

0 4 8 16
SCALE: 1/4" = 1'-0"

DRAWINGS NOT FOR CONSTRUCTION, THEY ILLUSTRATE DESIGN INTENT ONLY AND SHALL BE USED IN CONJUNCTION WITH SPECIFICATION SECTION 10 73 46 PRE-FABRICATED SITE SHELTERS

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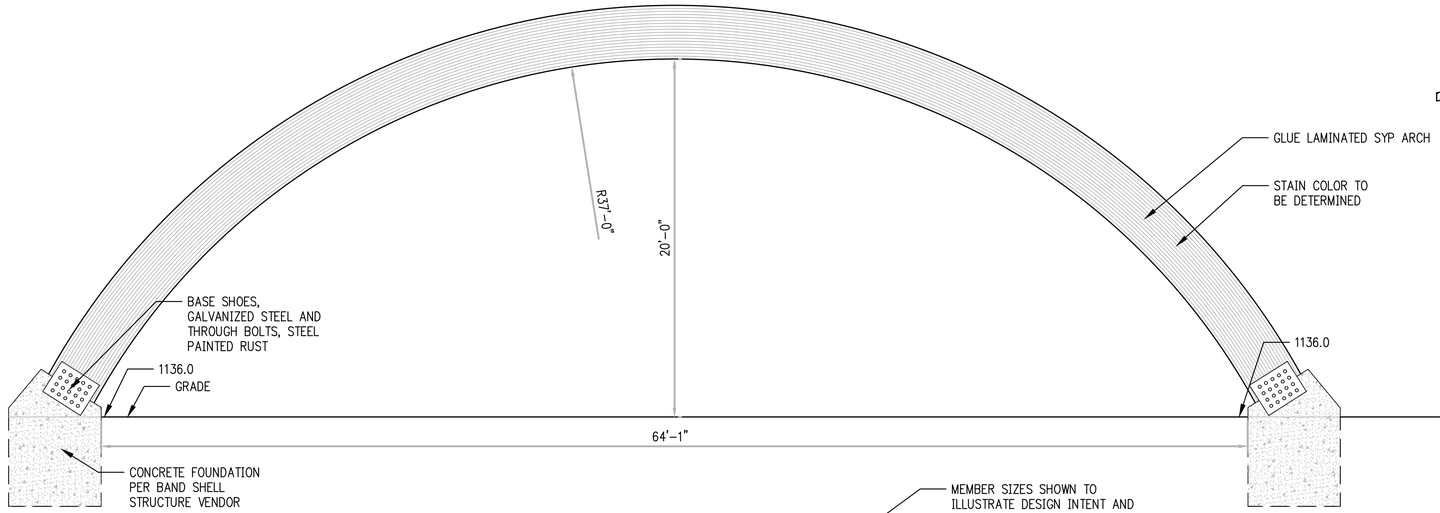
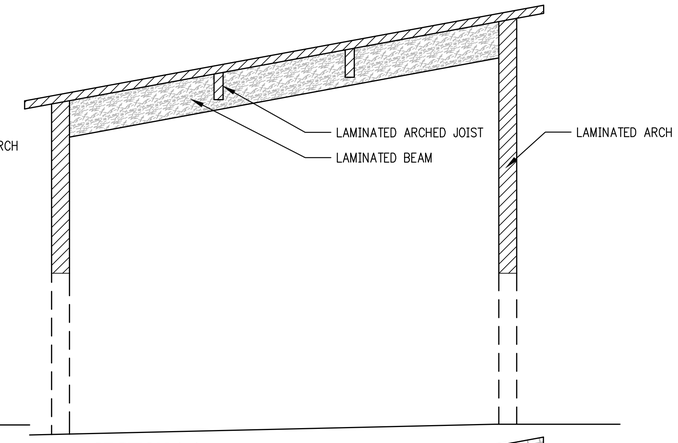
BAND SHELL

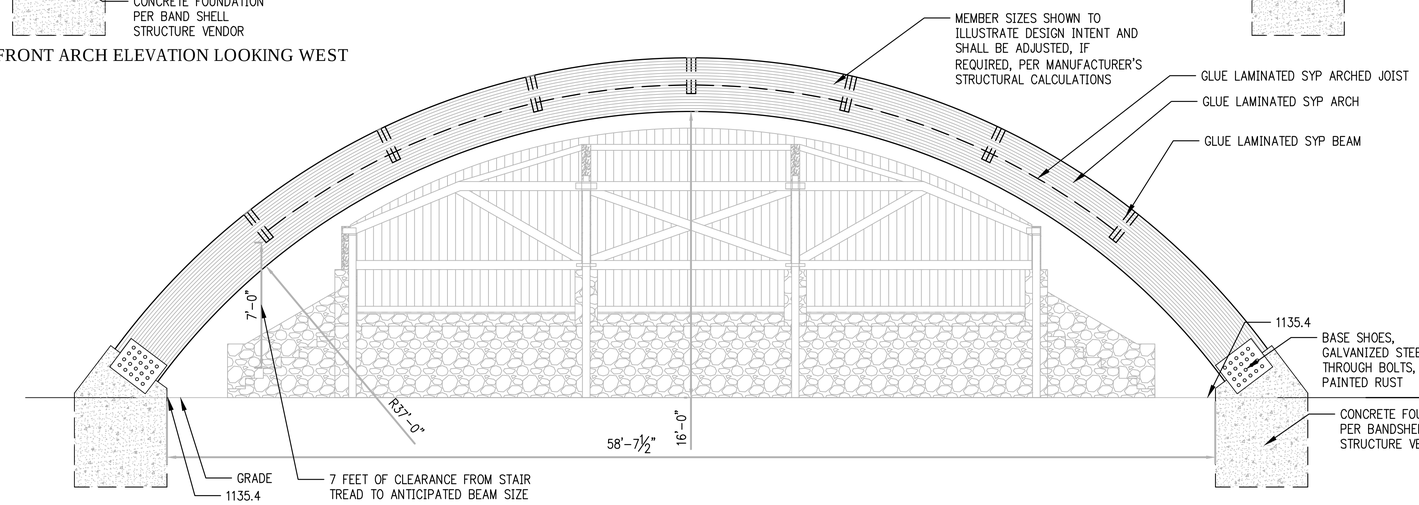
D-103



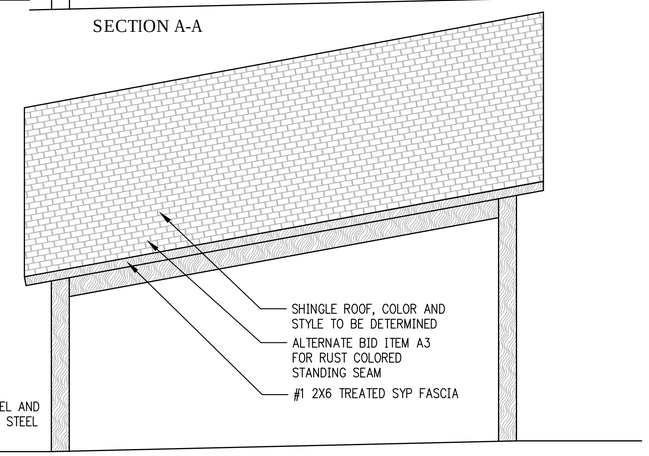
FRONT ARCH ELEVATION LOOKING WEST



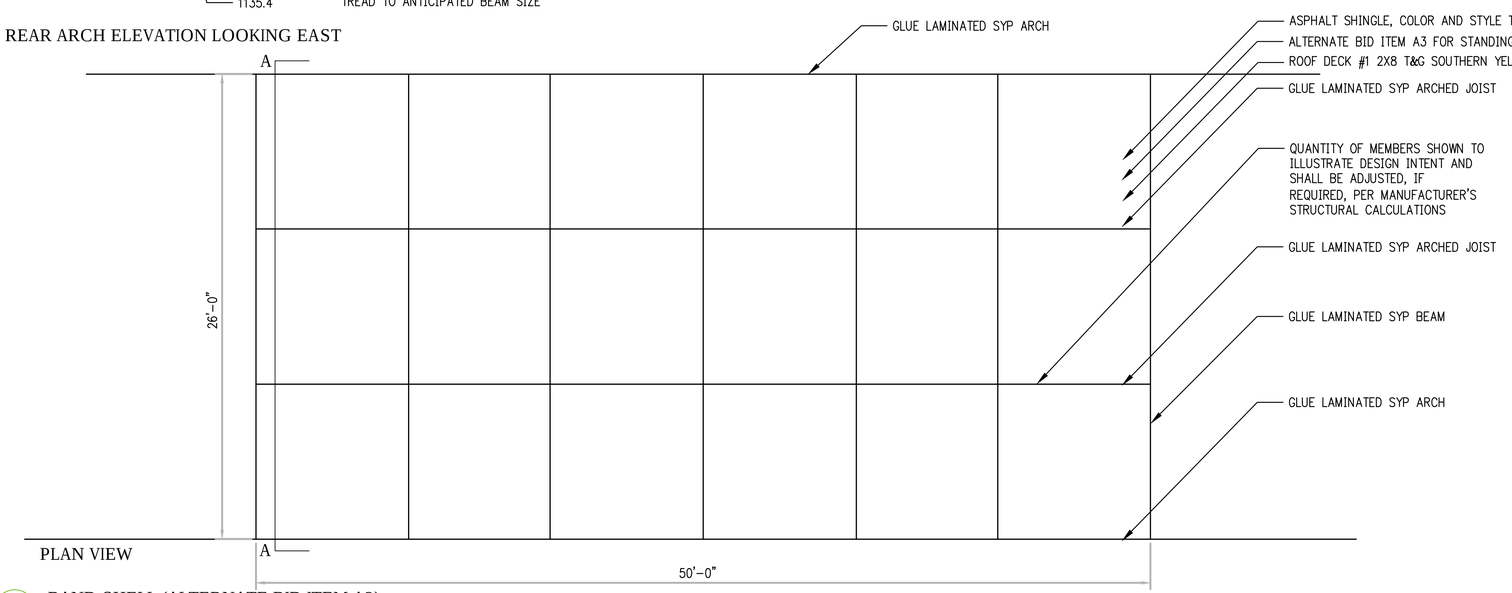
SECTION A-A



REAR ARCH ELEVATION LOOKING EAST



SIDE ELEVATION



PLAN VIEW

1 BAND SHELL (ALTERNATE BID ITEM A2)
1/4" = 1'-0"

0 4 8 16
SCALE: 1/4" = 1'-0"

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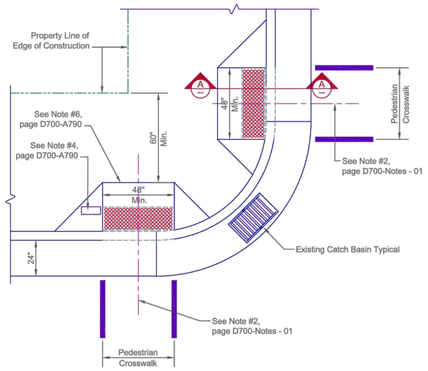
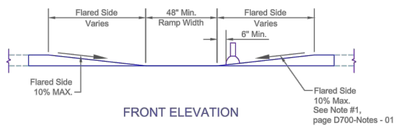
BAND SHELL ALTERNATE

D-104



TYPICAL LAYOUT



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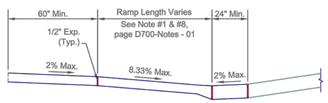
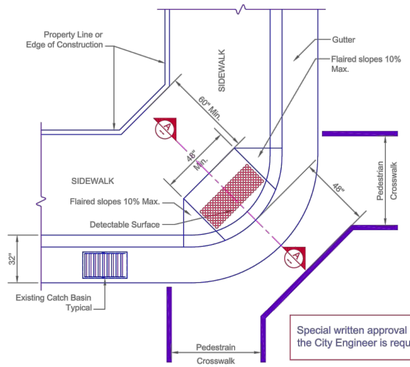


SECTION A-A

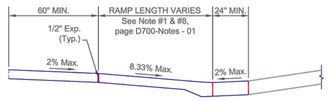
STANDARD CURB RAMP
710



Special written approval by the City Engineer is required.

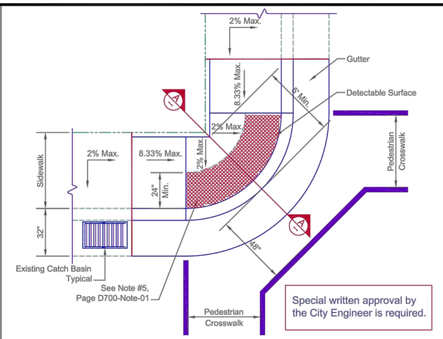
DIAGONAL CURB RAMP

NOTES:
Diagonal curb-ramps should only be considered where circumstances prevent the installation of perpendicular ramps.



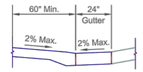
SECTION A-A

ALTERNATIVE DIAGONAL CURB RAMP
720



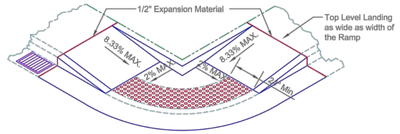
Special written approval by the City Engineer is required.

TYPE 'A' BLENDED TRANSITION RAMP



SECTION A-A

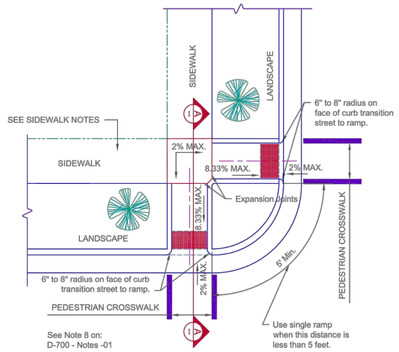
All Notes on Sheets D700-A790 Standard Curb Ramp apply to all Alternates (A, B, C).



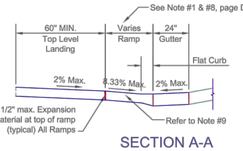
ISOMETRIC

See General Notes, page D700-A790 for all Curb Ramp Alternates

BLENDED RAMP "A"
730

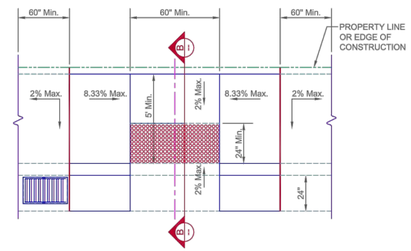


TYPICAL LAY-OUT

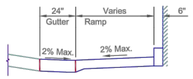


SECTION A-A

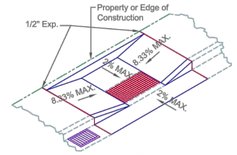
STANDARD SETBACK SIDEWALK CURB RAMP
740



TYPE "B" PARALLEL RAMP



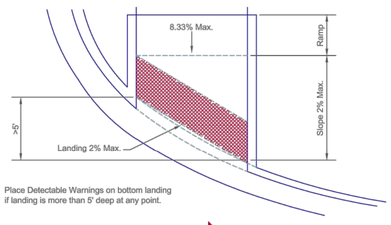
SECTION B-B



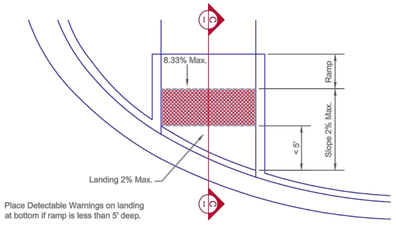
ISOMETRIC

Type "B" Curb-Ramp shall be used on narrow sidewalk at mid block locations when standard curb ramp lay-out is not feasible. The 6" curb shall be installed along the edge of the back of sidewalk.

TYPE "B" RAMP
750

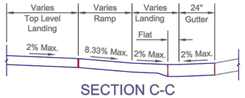


Place Detectable Warnings on bottom landing if landing is more than 5' deep at any point.



Place Detectable Warnings on landing at bottom if ramp is less than 5' deep.

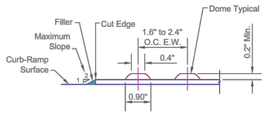
TYPE "C" RAMP



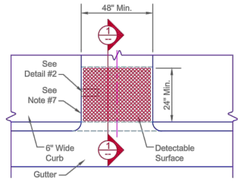
SECTION C-C

TYPE "C" RAMP
760

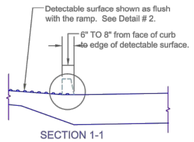
Detectable Truncated Dome Specifications:
- Bottom diameter of 0.9 in.
- Top diameter of 0.4 in.
- Height of 0.2 in.
- Center-to-center spacing of 1.6 in to 2.4 in.
- Visual contrast.
- Detectable warning surface shall extend from edge to edge of walkway entering the crosswalk, at street level.



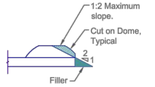
SECTION CUT EDGE



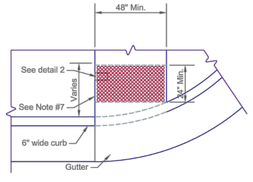
DETECTABLE SURFACE LAYOUT RAMP ON STRAIGHT EDGE



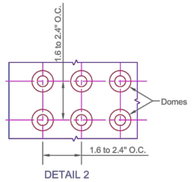
SECTION 1-1



DETAIL AT CUT DOME

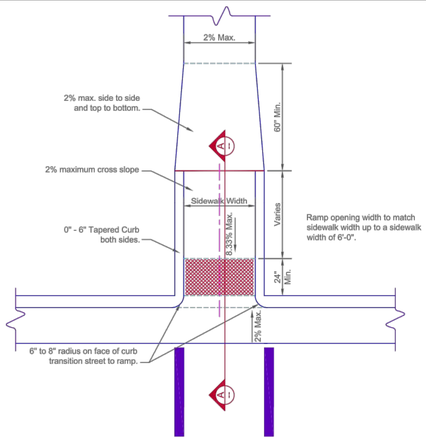


DETECTABLE SURFACE LAYOUT RAMP ON CURVED EDGE

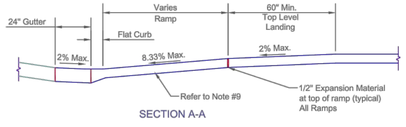


DETAIL 2

DETECTABLE SURFACE FOR RAMPS
770



TYPICAL LAY-OUT



SECTION A-A

This is the method of transitioning a ramp with die out curbs into the adjacent landing and sidewalk.

METHOD OF TRANSITIONING A RAMP WITH DIE OUT CURBS
780

General Notes:

a. The standard curb-ramp lay-out shall be used whenever possible. Any deviation from the standard curb-ramp plans shall be approved by the City Engineer or designee on a case by case basis.
b. The standard curb-ramp drawings supersede all previous drawings and shall be part of the new curb ramp standard drawings.
c. All alternate ramps shall be approved by the City Engineer prior to construction.
d. Seal all joints on sidewalk and ramps. Maximum width of expansion joint is 1/2"

Curb Ramp Notes:

1. A curb ramp is defined as the entire concrete surface which includes the ramp & flared sides. The minimum 4' wide center portion, including the detectable surface, shall have a sloped plane of 8.33% (1:12) maximum, and cross slope, not to exceed 2%. The "flared side" of the ramp shall lie on a slope of 10% (1:10) maximum measured along the curb. The curb ramp shall have a surface tolerance of 1/4" per 10 foot straight edge maximum.
2. The ramp center line and path of travel should be parallel to the sidewalk whenever possible. The full width of the ramp shall lie within the crosswalk area. It is desirable that the location of the ramp be as close as possible to the center of the crosswalk.
3. The 4'-0" min. distance between flared sides of the two adjacent curb ramps may be reduced to 3'-0" with documentation of hardship indicating legal and or physical constraints provided to the City Engineer.
4. Existing utility boxes and covers shall be adjusted flush with the curb ramp surface and shall not straddle any change in plane or material. Existing utility box frames and covers shall have matching surface finish on the entire frame and cover. New utility boxes shall not be placed within the detectable border.
5. The surface of the curb ramp and detectable surface material shall be stable, firm and slip resistant. The concrete curb ramp surface shall be broom finished transverse to the axis of the ramp and shall be slightly rougher than the finish of the adjacent sidewalk surface.
6. A level landing 5'-0" deep, with a 2% maximum slope in each direction shall be provided at the upper end of each curb ramp to allow safe egress from the ramp surfaces. The width of the level landing shall be at least as wide as the width of the ramp. A level landing 4' deep shall be provided at all pedestrian push buttons at signalized crossings.
7. Existing vertical utility poles or street light poles may be incorporated into the flared sides, if necessary. The vertical obstruction shall be a minimum of 6 inches away from edge of the ramp. Pedestrian crosswalks push button poles, fire department call boxes and other poles with activated devices, may not be placed in the curb-ramp at any time. No new vertical obstructions may be located in the curb ramp or the grooved border.
8. Ramp opening shall be the same width as the sidewalk, up to 6'-0" wide
9. Curb Ramp shall be constructed with 8" thick concrete at collector and arterial streets; and with 6" thick concrete at residential street. All on top of 2" sand cushion. Curb ramps will extend a maximum of 8'-8" from face of curb to the beginning of the landing or connecting sidewalk. All construction from 8'-8" (maximum) behind the face of curb will be paid as sidewalk. All landings and incidental connections will be paid as side walk and will be constructed of 4" thick concrete
10. For new construction -- All detectable warnings are to be set in concrete. Surface applied domes require special written approval by the City Engineer.

For Driveways:

See Standard D-300.

A.D.A. NOTES
790

Sidewalk Notes:

1. Minimum Sidewalk width shall be as follows: residential, 5'-0" at curb, 4'-0" at property line; commercial, 6'-0" at curb, 5'-0" at property line.
2. Sidewalk slope shall be a maximum of 2% and a minimum of 1/2% cross slope.
3. Whenever the width of the sidewalk is less than 5'-0", a 5' x 5' passing area with a maximum 2% slope and minimum 1/2% slope in any direction at intervals of 200' shall be installed.
4. Whenever changing direction in a sidewalk, install a 5' x 5' passing area with maximum 2% slope and minimum 1/2% slope in any direction.
5. Objects such as tree branches, signs, water fountains, etc. shall not protrude into the sidewalk more than 4" at the heights between 27" and 80".
6. Sidewalk shall be constructed of 4" thick concrete on top of 2" sand cushion.
7. All obstructions into the walk, such as power poles, hydrants, sign posts, etc. must have at least 36" of clear travel space around the obstruction.

Ramps:

When the rise in elevation is greater than 30" a series of ramps and landings will be required.
- Landing shall be 5'-0" in length and no greater than 2% in any direction.
- The maximum of a run is determined by the rise (30" maximum) and slope, as shown in the following table.

Max. Rise	Slope	Max. Length	Max. Rise	Slope	Max. Length
30 in.	1:12	30 ft.	30 in.	1:16	40 ft.
30 in.	1:13	32.5 ft.	30 in.	1:17	42.5 ft.
30 in.	1:14	35 ft.	30 in.	1:18	45 ft.
30 in.	1:15	37.5 ft.	30 in.	1:19	47.5 ft.

OKLAHOMA CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STANDARD ADA CURB RAMP, SIDEWALK AND DRIVEWAY DETAILS

APPROVED BY: DENNIS CLOWERS, P.E. CITY ENGINEER — DATE 2/26/10

DRAWN:	REVISED:	DWG. N0.
V.S.C.	1/27/10	D-700

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