	RICE ROA
	City
	INDEX TO DRAWINGS
SHEET NO	. TITLE
G1.1	
C1.2	SITE GRADING & DRAINAGE PLAN & GENERAL NOTES
A1.1	FLOOR PLAN AND ROOF LAYOUT
A1.2	BUILDING ELEVATIONS
S1.1	FOUNDATION AND ROOF FRAMING PLANS
S1.2	STRUCTURAL DETAILS
E1.1	ELECTRICAL PLAN, DETAILS, AND SCHEDULES
E1.2	ELECTRICAL SPECIFICATIONS
SD1.1	FROSION CONTROL DETAILS
SD2.2	EROSION CONTROL DETAILS
L1.1	LANDSCAPE PLAN
L2.1	LANDSCAPE DETAILS
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
<u>DESIGN LO</u>)ADS PER 2006 IBC ds — Weight of building materials and fixed service equipment
Live Loads	S
Roc	of — 20 psf, uniform— for roofs w/ slopes less than 4:12 16 psf, uniform— for roofs w/ slopes greater than 4:12 and less than 12:12 250 lbs., concentrated (non—cumulative) or — 100 psf, uniform
Snow Loa Grou Snow Snow	d nd Snow Load, Pg — 5 psf r Exposure Factor, Ce — .7 r Load Importance Factor, I — 1.0
Wind Load Bas Bas Win Win	ic Wind Speed — 90 mph ic Velocity Pressure, qs — 20.7 psf d Load Importance Factor, I — 1.0 d Exposure — B
	e Design Data

Basic Seismic Force Resisting System — Load-bearing/Shear Wall Frame System Response Modification Factor, R — 4.5

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TRAILHEAD IMPROVEMENTS Ridgeland, Mississippi WEI# C011-066



MARCH 2012

N.T.S.



the city of RIDGELAND

OWNER INFORMATION

MAYOR: GENE F. McGEE

PUBLIC WORKS DIRECTOR: JOHN M. McCOLLUM

CITY ENGINEER: DAVID E. WILLIAMS, P.E.

BOARD OF ALDERMAN: KEN HEARD - WARD 1 CHUCK GAUTIER - WARD 2 KEVIN HOLDER - WARD 3 BRIAN RAMSEY - WARD 4 SCOTT JONES - WARD 5 WESLEY HAMLIN - WARD 6 D.I. SMITH - AT LARGE

CONTACT INFORMATION: CITY OF RIDGELAND, MS **304 HIGHWAY 51** RIDGELAND, MS 39157 PHONE: 601.856.2027







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- COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD.
- UTILIZING STANDARD CONSTRUCTION WORK ZONES.
- 5. CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND THE EXISTING WELL BUILDING
- THE MINIMUM SIZE AND DURATION REQUIRED FOR ACCESS.

WAGGONER Perspective, Passion, Innovation, LEGEND FIBER OPTIC CABLE ------ FOC ------UNDERGROUND GAS LINE OVERHEAD POWER LINE - TRANSMISSION LINE TRANSMISSION-LINE LOCATION OF GROUND SHOT S _____ OVEMENT This property is situated Horizontal and Vertical control in Zone "AE ", based established on site by Waggoner Engineering, Inc. using flood elevation Global Positioning System, determined according to Flood Insurance Rate Map Community Panel (GPS); Number 28089C 0586 F, MS Horizontal control based on dated March 17, 2010 North American Datum 1983. (NAD83), MS. West Zone, U.S (Approximate BFE=296') Foot; IMPR Said parcel may be subject to recorded, unrecorded or mis-Vertical control based on North ND indexed instruments or facts which would be revealed by a complete title examination of said parcel. American Vertical Datum 1988, (NAVD88); \checkmark AD C **RAILHE** RD Ō AD GRAPHIC SCALE \mathbf{O} RO (IN FEET) 1 inch = 20 ft.RICI NO. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL CONSTRUCTION WORK ZONES ARE IN 3. IN ADDITION TO THE SIGNAGE SHOWN, THE CONTRACTOR SHALL USE ALL NECESSARY DEVICES FOR ENCROACH THE ESTABLISHED TRAVEL WAY. CONTRACTOR SHALL FOLLOW ALL GUIDELINES SET FORTH BY MDOT AND MUTCD TO INSURE PROPER TRAFFIC FLOW AND SAFETY TO ALL PARTIES INVOLVED. PERMITTED ON RICE ROAD ONLY DURING OFF PEAK HOURS (9:00 A.M. - 4:00 P.M.), AS IT RAWN BY: SIGNED BY: DHP CHECKED BY: BWN 7. CONTRACTOR IS RESPONSIBLE TO UTILIZE TYPE II BARRICADES TO TEMPORARILY CLOSE PARKING RAWING TITLE: AREAS AS REQUIRED FOR CONSTRUCTION ACCESS. PARKING AREA CLOSURES SHALL BE LIMITED TO





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UNLESS SOLID SOD IS REQUIRED. SOLID SOD MAY BE REQUIRED AS DIRECTED BY

MANUFACTURER'S CERTIFICATES, OR PROPOSED MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE INCORPORATION INTO THE PROJECT. THIS SHALL INCLUDE BACKFILL, CONCRETE, ASPHALT, STEEL, STRIPING MATERIAL, PIPING,

STORM SEWER OR OTHER RELATED APPURTENANCES SHALL, WHEN REQUIRED, BE ADJUSTED TO FINISHED GRADE BY CONTRACTOR AS AN ABSORBED COST OF THE

CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE PROJECT DRAWINGS AND CONSTRUCTION, MDOT, 2004 EDITION AS IF SAID STANDARDS WERE WRITTEN OUT

PARKING LOT AND THE ENTERGY EASEMENTS. NO EQUIPMENT OR MATERIALS MAY

ASPHALT APRON. AND OTHER ONSITE IMPROVEMENTS THROUGHOUT CONSTRUCTION.



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က VEMEN⁻ S Σ O MPR \square S Ζ 00 \triangleleft AD $\overline{}$ C 0 Ш \mathbf{O} \square I # R _____ МE A R O \square 4 \mathbf{O} \bigcirc R RICE DRAWING REVISIONS REMARKS DATE As Shown DHP SCALE: MARCH 2012 DATE: IGNED BY: DHP ECKED BY: BWN PROJECT: CO11068 AWING TITLE SITE, GRADING & **DRAINAGE PLAN** & GENERAL NOTES C1.2





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Door Schedule							
	Door Size			Door		Frame	Frame
UIV. #	Width	Height	Thickness	Material	Door type	Туре	Material
DRO1	3'-0"	6'-8"	1 <mark>3</mark> "	Н.М.	А	1	PTD. STL.
DR02	3'-0"	6'-8"	1 <mark>3</mark> "	Н.М.	А	1	PTD. STL.
DR03	3'-0"	6'-8"	1 3 "	Н.М.	A	1	PTD. STL.



- SPLIT FACE CMU

FRONT ELEVATION



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AND, -066 WEI# C011 DRAWING REVISIONS REMARKS DATE As Shown RAWN BY: DHP SCALE: DATE: MARCH 2012 ECKED BY: BWN PROJECT: CO11066 STRUCTURAL DETAILS



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j. 1 -



	LIGHT FIXTURE SCHEDULE						
SYMBOL	VOLTS	WATTS	DESCRIPTION	MANUFACTURER	CATALOG NUMBER		
A	120	2-32 T8 - -	INDUSTRIAL STRIP LIGHT W/ ELECTRONIC BALLAST -	DAY-BRITE	IA-232-120-1/2EB-FL-123 - -		
В	120	2-32 T8 - -	DECORATIVE VANDAL RESISTANT LIGHT FIXTURE, ELECTRONIC BALLAST -	LUMINAIRE	ALV-124-232-BRZ-ST/SC - -		
С	120	1-42 TRIPLE -	DECORATIVE VANDAL RESISTANT LIGHT FIXTURE, ELECTRONIC BALLAST 	LUMINAIRE	YWP-610-H0-1PLT42-CP-BRZ - -		
D	120	2-32 T8 - -	DECORATIVE VANDAL RESISTANT LIGHT FIXTURE, ELECTRONIC BALLAST 	LUMINAIRE	ALV124-232-BRZ-ST/SC - -		

	ELECTRICAL LEGEND
	KEYNOTES
SYMBOL	DESCRIPTION
	SHEET KEYNOTE.
2	REVISION KEYNOTE.
	LIGHTING
SYMBOL	DESCRIPTION
⊢⊛⊣	FLUORESCENT STRIP WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
۲ ۲	WALL BRACKET OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
⊢©⊣	FLUORESCENT WALL BRACKET OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	POWER DISTRIBUTION
SYMBOL	DESCRIPTION
LA-1	HOME RUN, (CONDUIT AND WIRING) PANEL AND CIRCUIT DESIGNATION, NUMBER OF CONDUCTORS. GROUNDING CONDUCTOR ARE I MARKS, BUT ARE REQUIRED AND SIZED PER BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
······ III	BRANCH CIRCUIT, (CONDUIT AND WIRING) PANEL AND CIRCUIT DESIGNATION, NUMBER OF CONDUCTORS. GROUNDING CONDUCTORS BY MARKS, BUT ARE REQUIRED AND SIZED PER BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
	RACEWAY INSTALLED CONCEALED ABOVE CEILING OR IN WALL.
	RACEWAY INSTALLED UNDERGROUND OR BELOW SLAB
	RACEWAY INSTALLED EXPOSED (ON CEILING ONLY).
\sim	BRANCH CIRCUIT (CONDUIT AND WIRING) IN FLEXIBLE METAL CONDUIT, NUMBER OF CONDUCTORS. (6'-0" MAXIMUM LENGTH).
	GROUND PER NEC ARTICLE 250.
	ELECTRICAL PANEL, 250 VOLT SYSTEM, SURFACE MOUNT.
	SWITCHES
SYMBOL	DESCRIPTION
\$	SWITCH SINGLE POLE FLUSH TUMBLER. MOUNT CENTER LINE UP 48", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPE
OS	OCCUPANCY SENSOR CONTROLLER. MOUNT ON CEILING
PC	PHOTO ELECTRIC CONTROLLER. MOUNT ON ROOF, OR AS NOTED ON PLAN, AIM NORTH.
TA	ASTRONOMICAL TIMER, 2 CIRCUIT, ON AT DUSK, OFF AT 9:00 PM. CONFIRM WITH OWNER SHUT OFF TIME.

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<u>KEYNOTES</u>

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- 1 ROUTE SWITCHED CIRCUIT FOR TYPE "C" FIXTURES THROUGH PHOTOCELL. ROUTE SWITCHED CIRCUITS FOR TYPE "D" FIXTURES THROUGH ASTRONOMICAL TIME CLOCK.
- 2 INSTALL PHOTOCELL ON NORTHEAST SIDE OF BUILDING, AIM NORTH.
- 3 RUN UNDERGROUND TO POWER COMPANY TRANSFORMER. REFER TO POWER RISER DIAGRAM, THIS SHEET.
- (4) INSTALL PASSIVE INFRARED OCCUPANCY SENSOR WITH 360°COVERAGE. WATTSTOPPER OR EQUAL.
- 5 INSTALL METER SOCKET SO THAT BUSSES ARE 6'-0" ABOVE FINISH FLOOR.
- 6 All branch ckts. Shall be $1/2^*$ IMC, 2-12 AWG, 12 AWG -G-
- 7 PANEL 8 SHALL BE A 60A/2P, 120/240V, 1¢ LOAD CENTER, 10 KAIC MTH (6) 20/1 BREAKERS. INSTALL MAIN BREAKER AT TOP OF PANEL. ENSURE BUSSES ARE INSTALLED 6'0" A.F.F.

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RICE ROAD TRAILHEAD IMPROVEMENTS CITY OF RIDGELAND, MS WEI# C011-066	
DRAWING REVISIONS NO. REMARKS DA	TE
SEAL: DRAWN BY: JDR SCALE: As Show DESIGNED BY: JDR DATE: FEBRUARY	vn 72012
	36
ELECTRICAL PLAN, DETAILS & SCHEDULES	
E1.1	

SECTION 16010

GENERAL PROVISIONS --- ELECTRICAL

PART 1 - GENERAL PROVISIONS:

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1.01	Cover	ing Statement.	-
1.01		nig Statement.	В.
	Α.	Requirements or any other pertinent documents issued by the Architect are to be considered as part of these specifications and shall be complied with in every respect.	
	В.	The listing herein, or indication on the drawings of articles, materials, operations or methods, requires that the Contractor provide each item mentioned of quality or subject to qualifications noted; perform according to conditions stated, each operation prescribed and provide therefore all necessary labor, equipment and incidentals.	
1.02	Fees	ind Permits:	BASIC
	Α.	All costs chargeable to the Owner by Utility Companies, municipalities or other regulatory bodies for utility service, relocation of existing facilities, building permits, inspection fees, etc.	PART 1
		shall be obtained by this Contractor and included in his bid, unless these costs are otherwise negotiated or provided for. Refundable deposits for Utility Company service shall be evaluated from this requirement.	1.01 Go
1 03	Codes	and Regulations:	Α.
1.00	دەر د	Comply with the National Electric Code, applicable federal state or local codes. The local	
	~.	authority shall be the interpreter of any code requirements and the Contractor shall comply with these requirements.	1.02 Ov A.
1.04	Scope	of Work Included:	
	Α.	The work to be performed under these Specifications shall include all labor, materials,	
		execution and completion of all Electrical work as shown and indicated on the contract drawings, and/or berein specified with the intent that the installation shall be complete in every respect	PART 2
		ready for use.	2.01 Co
1.05	Work	Specified Under Other Contracts:	А.
	Α.	The following work is necessary for the satisfactory operation of this system, but is not included as part of this Contractor's work and will be done under separate contracts:	
		1. Motors, unless otherwise specified herein, shall be furnished and set in place by other Contractors.	2.02 Fu
		 Control interlock wiring, conduit, connections and testing of controls are by other Contractors. Control wiring to be defined by function and not by voltage. 	A.
		 Equipment such as fans, pumps, etc. to be furnished and installed by Mechanical Contractor. Motor starters for such equipment to be provided by Mechanical Contractor. And connected, line and load, by Electrical Contractor. 	В.
			2.03 Br
1.06	Clean	-Up:	А.
	Α.	Contractor shall clean up and remove from the premises all debris and materials not installed. Leave area in condition satisfactory to Architect.	
1.07	Guara	ntee:	
	Α.	This Contractor is to guarantee to the Owner that all materials and workmanship be free from	
		defects for one year from date of final acceptance by the Owner. Contractor shall replace any defective materials or remedy other defects at Contractor's expense during guarantee period.	
	В.	Corrective or remedial action performed under this guarantee shall be done during normal Business hours. Should the Owner require special 'off—hour' service, he will be expected to reimburse the Contractor for difference in employee rates	
	c	amon are evented from the superstance restance follows:	В.
	U.	Lumps are excepted from the guarantee period as follows: 1. Incandescent lamps shall be replaced for thirty days from date of final acceptance by	
		Owner.	
		2. Fluorescent and discharge type lamps shall be replaced for hinety days from date of final acceptance by Owner.	0.04 5
PART	2 -	MATERIALS:	2.04 DI
2.01	Manut	acturer:	Α.
	Α.	Where material or equipment is specified or shown on the drawings by name of manufacturer or by accepted trade designation, it denotes the quality desired. The material of other manufacturers may be used provided the construction arrangement finish voltage and safe load carrying conscitu	B
		equals that specified or shown on the drawings and provided further that the Contractor shall submit six copies of brochures describing substitute materials complete with manufacturer's name and model number to the Architect.	0.
			C.
2.02	Shop	Drawing List:	
			2 75 14/

- A. Prior to starting work, Contractor shall submit shop drawings of the following equipment to the Architect for approval:
- 1. Panelboards
- 2. Light Fixtures
- 2.03 Storage of Material:
 - A. Make provision for delivery and safe storage of all materials, and arrange with other Contractors on the job for the installation of equipment too large to pass through finished openings.
 - B. Arrange to have materials delivered to the job at such stages of the work as will expedite the work as a whole. Mark and store all materials in such a manner as to be easily checked or inspected.
- PART 3 EXECUTION:
- 3.01 Standard:
 - A. All work shall be performed in accordance with acceptable industry standards except where specific procedures are called for in these specifications, in which case they shall be followed. If not specified, standard methods shall be used.
- 3.02 Final Connections to Equipment Furnished by Others:
 - A. Certain items of equipment shown on the drawings are to be furnished by the Owner, existing in place or to be relocated. This Contractor shall be responsible for determining such items and providing all labor, wire, conduit, and final connections to such equipment.
 - B. Provide power and final connections to mechanical equipment as indicated on the drawings. This is to include providing disconnect switch and wiring connections through disconnect to controller (starter, contactor, etc.) and from controller to load. Components of pre-packaged/pre-wired systems such as air conditioning systems are to be utilized as provided by manufacturer. Power wiring to loads such as pumps, fans, etc. which are not pre-wired are to be completed by the Electrical Contractor with the control device (starter, contactor, etc.) provided to the Electrical Contractor by the Mechanical Contractor for Installation. All control wiring to by by Mechanical Contractor.

3.03 Patching:

- A. It shall be the responsibility of this Contractor to ensure that all openings have been properly patched, repaired or painted. Cover plates must conceal all rough openings.
- Conduit penetrations of walls, floors, partitions, plenums, etc. shall have all such penetrations patched or sealed with approved substances to match construction, finish and maintain fire rating of penetrated wall, floor, etc.

END

SECTION 16100

MATERIALS AND METHODS --- ELECTRICAL

- GENERAL:

- verning Statement:
- In general, all materials shall be new, U.L. approved and listed for the specific application, as specified or required, and be properly installed.
- ercurrent Protection:
- Provide overcurrent protection for all wiring and equipment in accordance with the National Electric Code and all federal, state and local codes as required and/or shown on the drawings.

- MATERIALS:

- nduit and Fittings: Conduit and installation shall conform to the following: All wiring shall be in NEC approved raceways sized as shown on the drawings, or if not sized on the drawings,
- in accordance with the latest edition of the National Electric Code.

ses:

- All fuses shall be of the same manufacture as produced by Chase-Shawmut, Bussman or equal.
- Fuses for all circuits shall be of type recommended by the manufacturer and sized in accordance with the latest edition of the National Electric Code to provide a coordinated system of overcurrent protection.

eakers:

- Breakers shall be of size and type as shown on drawings and schedules by Square D, General Electric, ITE or equal. Breakers shall, in general, be quick-make, quick-break; have toggie mechanism, insuring full contact pressure until time of opening whether manually or automatically operated; have inverse time tripping characteristics with fixed thermal and magnetic trip element which trips free; allow the thermal trip action to hold on harmless momentary overload; on short circuit or heavy overload, the magnetic trip element shall instantly trip without damage or injury, have non-welding, non-corroding contacts; mechanism enclosed in molded bakelite case sealed to prevent tampering or unauthorized changes in calibtration; be U.L. listed amd meet NEMA standards.
- All multiple pole breakers shall have common trip. Wires, pins, etc. between single pole breakers to form common trip will not be acceptable. In general, all 120 volt lighting and receptacle circuits shall be run from 20 ampere single pole breakers. Where panel spaces are called for, they shall be complete with bus for future breaker installation. All breakers shall give a visual indication as to whether it is "ON". "OFF" or "TRIPPED.

sconnects:

- Furnish and install, where noted on drawings or required, general duty front operated, enclosed safety switches as manufactured by Square D, General Electric, ITE, or equal.
- Switches shall be in proper NEMA enclosure as required by location or as noted on drawings; quick-make and quickbreak type; horsepower rated; capable of interrupting the locked rotor current of the motor served.
- Provide breaker ties for all single pole breakers serving multiwire circuits

2.05 Wire and Cable:

- A. All wire and cable shall comply with the latest specifications and requirements of the NFPA and/or the Insulated Power Cable Engineers Association and shall be of the quality as manufactured by Triangle, Cresent, General Cable, or equal.
- B. Wire and cable shall conform to the following, unless otherwise specified, noted on the plans, or required:
 - All conductors for wire and cable shall be copper based on 98% conductivity according to Matteisen's Standard, and shall be tinned or untinned in accordance with established standards for the type of insulation. Stranding and materials of conductors shall be in accordance with ASTM Designation B8 and B33. All wire and cable shall be stamped approximately every two feet to indicate voltage, type, temperature rating, etc.
- C. Conductors #10 AWG and smaller shall be solid, and those #8 AWG and larger shall be stranded.

2.06 Application of Wire and Cable:

Α.	Insulation for all wire or cable to	be as follows:
	General Use Areas	THW, THHN
	Wet or Moist Locations	THWN
	Panel Feeders	THW, THWN
	Service Entrance	THW, THWN

B. All insulated wiring or cables to be rated 600 volts unless otherwise specified

2.07 Wiring Devices:

- A. Wiring devices, switches, convenience outlets, etc. shall be of 'Specification Grade' quality as manufactured by Pass & Seynour, Bryant, Hubbell or equal. All receptacles, room switches, etc. shall have finish as approved by the Architect. Gang plates shall be used for all multiple device locations.
- B. All power receptacles shall be of the grounded type.
- C. Cover plates to be specification grade stainless steel or phenolic "smooth" styling of color specified by Architect. In general, brown plates shall be used on paneled areas, ivory plates on painted surfaces and stainless steel in kitchen, restrooms or other tiled or damp areas.

PART 3 - EXECUTION:

3.01 Identification:

A. Overcurrent devices shall clearly indicate what they feed. For breaker panels this may be accomplished by means of the typewritten panel schedule mounted inside the cover door.

3.02 Conduit:

- A. Unless otherwise shown or indicated, all conduit in finished areas shall be concealed in walls, ceiling,
- B. Exposed conduit shall be installed parallel or at right angles to building lines both horizontally and vertically.
- 3.03 Equipment Furnished by Others:
 - A. Consult and coordinate with all parties furnishing equipment requiring electrical connections as necessary. Verify exact requirements and component location. No extras will be allowed for relocation or replacement of electrical wiring or controls because of this Contractor's failure to coordinate with other Contractors.

END

SECTION 16400

SERVICE AND DISTRIBUTION

PART 1 - GENERAL:

1.01 Utility Company Service:

- A. This Contractor shall furnish all labor, materials, etc., necessary for a complete approved electrical service as required by the in structure, including inspection and approval by the Utility Company and local inspection departments, if applicable.
- B. The Electrical Utility Company shall provide the electrical service as shown or noted on the drawings. This Contractor's work is to begin at the weatherhead or as otherwise agreed. It is this Contractor's responsibility to consult with and coordinate with the Utility Company
- C. The main service voltage and current requirements shall be as shown on the drawings.

1.02 Service Requirements:

A. The electrical service (overhead or underground) shall comply with all requirements of the National Electrical Code, the local Utility Company and local codes. This Contractor is to consult with and work closely with the Utility Company to coordinate efforts and ascertain responsibility.

1.03 Metering:

A. Meter shall be furnished by the Utility Company and installed by this Contractor. Metering must be installed in accordance with the Utility Company requirements.

PART 2 - PRODUCTS:

- 2.01 Power, Distribution and Lighting Panelboards:
 - A. All panelboards shall be enclosed in a code-gauge steel cabinet, have dead front construction, flush or surface mounted as shown, have matching one piece trim, have adequate wiring gutters for number of circuits and wiring size, have solderless main lugs and solid neutral, grouped on a common bar, have doors equipped with concealed hinge, spring lock or bar latches, have framed directory inside door with glass or plastic cover and type—written directory card, have fronts finished in laguer or enamel or flat prime coat ready for painting in finished areas, be U.L. approved.
- B. Branch circuit breakers shall be operable in any position and removable from the front of the panel without disturbing adjacent units. Panel shall be designed so as to permit a combination of one, two or three pole breakers to be readily assembled in one panel.
- C. Panelboards shall be of the type specified or NEC required for their location and application, and manufactured by General Electric, Square D, ITE, or approved equal.

PART 3 - EXECUTION:

3.01 Balancing of Loads:

- A. This Contractor shall balance all loads between phases in all panels, etc., around the neutral. Where common neutral is run for branch circuits, the phase wires of the home run shall be connected to seperate phase legs in order that the neutral shall carry only the unbalanced current of the phase circuits. Neutral conductors shall be same size as phase conductors unless specifically noted otherwise.
- B. Grounding conductors shall; be so installed as to permit shortest and most direct path from equipment to ground; be bonded at each end; have connections accessible for inspection and made with approved solderless connectors brazed or bolted to the equipment or structure to be grounded; in no case be a current carrying conductor; have a green jacket unless bare copper; be run in conduit with power conductors or in the case of multiconductor cable run inside the cable sheath.
- C. A main ground, bare copper conductor, NEC sized, shall be run in conduit from the main switchgear to main water pipe, driven ground rod and building structural steel. Provide properly sized bonding shunt around water meter as required.
- D. Electrode clamps or connectors shall be manufactured by Anderson, Buchanan, Thomas & Betts, Burndy or equal. Mechanical lugs or wire terminals shall be used to bond ground wires together or to junction and panel boxes.
- E. All contact surfaces shall be thoroughly cleaned before connections are made to insure good metal-to-metal contracts.

END

SECTION 16500 LIGHTING

PART 1 - GENERAL:

1.01 Service:

- A. This Contractor shall carefully examine the complete area as well as each individual room in which fixtures are to be installed for interference with piping, beams, ducts, etc., and where any such interferences occur, shall provide approved fixtures of proper length, design and suspension to overcome such interferences.
- Where the catalog number of a fixture requires the specific type of ceiling to be called out, this Contractor shall obtain from the General Contractor the type ceiling and name of the Manufacturer.
- 1.02 Exit Lighting:
- A. This Contractor is responsible for furnishing and installing a complete exit lighting system as shown on the drawings and meeting all requirements of local, state, federal, NEC and NFPA codes.
- 1.03 Emergency Lighting:
- A. Furnish and install, where shown on the drawings, emergency lighting of type specified.
- PART 2 PRODUCTS:

2.01 Fixtures:

A. All fixtures shall be: U.L. approved; furnished with proper outlet boxes, hangers, etc.; securely fastened to outlet boxes; furnished complete installed with lamps of proper size and type required or as specified; complete with supports, pendants, canopy extensions, etc.; equipped with socket suspensions which prevent twisting of wiring when installing or removing lamps; wired with Type TF fixture wire; furnished with plaster frames and light—tight gaskets when recessed as required; hav specified finish.

2.02 Lamps and Ballasts:

- A. Unless otherwise specified; all incandescent lamps shall be heavy duty 130 volt inside frosted. Fluorescent and H.I.D. lamps shall have color characteristics as shown on the fixture schedule. All Fluorescent lamps shall be of 'Energy Efficient' type.
- B. Fluorescent ballasts shall be energy-saving, solid-state, full light output type. Electromagnetic interference shall be minimal. Baliast shall be protected from voltage transients and minimum power factor shall be 90%. Ballast current third harmonic content shall be less than 10%. Average input wattage shall be 65 or less when operating 2 - 32 watt energy-saving lamps. Ballasts shall be as manufactured by Magnetek or approved equal by Advance or Motorola.

PART 3 - EXECUTION:

3.01 Finish:

A. The finished appearance of the workmanship on all fixtures installed under this contract shall have the approval of the Architect before final acceptance is made.

END



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		CITY OF RIDGELAND, MS	WEI# C011-066	
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	E١	ECT	'RIC/	۹L
SI	PE			ONS

SECTION 16010

GENERAL PROVISIONS --- ELECTRICAL

PART 1 - GENERAL PROVISIONS:

1.01 Governing Statement:

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۱.	The General Conditions, Supplementary General Conditions, Information to Bidders, General
	Requirements or any other pertinent documents issued by the Architect are to be
	considered as part of these specifications and shall be complied with in every respect.

- The listing herein, or indication on the drawings of articles, materials, operations or methods, requires that the Contractor provide each item mentioned of quality or subject to qualifications noted; perform according to conditions stated, each operation prescribed and provide therefore all necessary labor, equipment and incidentals.
- 1.02 Fees and Permits:

Α.	All costs chargeable to the Owner by Utility Companies, municipalities or other regulatory
	bodies for utility service, relocation of existing facilities, building permits, inspection fees, etc.
	shall be obtained by this Contractor and included in his bid, unless these costs are
	otherwise negotiated or provided for. Refundable deposits for Utility Company service shall
	be excluded from this requirement.

- 1.03 Codes and Regulations:
 - A. Comply with the National Electric Code, applicable federal, state or local codes. The local authority shall be the interpreter of any code requirements and the Contractor shall comply with these requirements.

1.04 Scope of Work Included:

- A. The work to be performed under these Specifications shall include all labor, materials, equipment, transportation, construction, facilities and incidentals necessary for the proper execution and completion of all Electrical work as shown and indicated on the contract drawings, and/or herein specified with the intent that the installation shall be complete in every respect, ready for use. 1.05 Work Specified Under Other Contracts:
- A. The following work is necessary for the satisfactory operation of this system, but is not included as part of this Contractor's work and will be done under separate contracts:
 - 1. Motors, unless otherwise specified herein, shall be furnished and set in place by other Contractors.
 - 2. Control interlock wiring, conduit, connections and testing of controls are by other Contractors. Control wiring to be defined by function and not by voltage.
 - 3. Equipment such as fans, pumps, etc. to be furnished and installed by Mechanical Contractor. Motor starters for such equipment to be provided by Mechanical Contractor. And connected, line and load, by Electrical Contractor.

1.06 Clean-Up:

Contractor shall clean up and remove from the premises all debris and materials not Α. installed. Leave area in condition satisfactory to Architect.

1.07 Guarantee:

- A. This Contractor is to guarantee to the Owner that all materials and workmanship be free from defects for one year from date of final acceptance by the Owner. Contractor shall replace any defective materials or remedy other defects at Contractor's expense during guarantee period.
- B. Corrective or remedial action performed under this guarantee shall be done during normal Business hours. Should the Owner require special 'off-hour' service, he will be expected to reimburse the Contractor for difference in employee rates
- C. Lamps are excepted from the guarantee period as follows:

final acceptance by Owner.

- 1. Incandescent lamps shall be replaced for thirty days from date of final acceptance by
- 2. Fluorescent and discharge type lamps shall be replaced for ninety days from date of

PART 2 - MATERIALS:

2.01 Manufacturer:

A. Where material or equipment is specified or shown on the drawings by name of manufacturer or by accepted trade designation, it denotes the quality desired. The material of other manufacturers may be used provided the construction, arrangement, finish, voltage and safe load carrying capacity equals that specified or shown on the drawings and provided further that the Contractor shall submit six copies of brochures describing substitute materials complete with manufacturer's name and model number to the Architect.

2.02 Shop Drawing List:

- A. Prior to starting work, Contractor shall submit shop drawings of the following eaulpment to the Architect for approval:
 - 1. Panelboards
 - 2. Light Fixtures

2.03 Storage of Material:

- A. Make provision for delivery and safe storage of all materials, and arrange with other Contractors on the job for the installation of equipment too large to pass through finished openings.
- B. Arrange to have materials delivered to the job at such stages of the work as will expedite the work as a whole. Mark and store all materials in such a manner as to be easily checked or inspected

PART 3 - EXECUTION:

3.01 Standard:

- A. All work shall be performed in accordance with acceptable industry standards except where specific procedures are called for in these specifications, in which case they shall be followed. If not specified, standard methods shall be used.
- 3.02 Final Connections to Equipment Furnished by Others:
 - A. Certain items of equipment shown on the drawings are to be furnished by the Owner, existing in place or to be relocated. This Contractor shall be responsible for determining such items and providing all labor, wire, conduit, and final connections to such equipment.
- В. Provide power and final connections to mechanical equipment as indicated on the drawings. This is to include providing disconnect switch and wiring connections through disconnect to controller (starter, contactor, etc.) and from controller to load. Components of pre-packaged/pre-wired systems such as air conditioning systems are to be utilized as provided by manufacturer. Power wiring to loads such as pumps, fans, etc. which are not pre-wired are to be completed by the Electrical Contractor with the control device (starter, contactor, etc.) provided to the Electrical Contractor by the Mechanical Contractor for installation. All control wiring to by by Mechanical Contractor.

3.03 Patching

- A. It shall be the responsibility of this Contractor to ensure that all openings have been properly patched, repaired or painted. Cover plates must conceal all rough openings.
- Conduit penetrations of walls, floors, partitions, plenums, etc. shall have all such penetrations patched or sealed with approved substances to match construction, finish and maintain fire rating of penetrated wall, floor, etc.

END

SECTION 16100

BASIC MATERIALS AND METHODS --- ELECTRICAL

PART 1 - GENERAL:

- 1.01 Governing Statement:
 - A. In general, all materials shall be new, U.L. approved and listed for the specific application, as specified or required, and be properly installed.

1.02 Overcurrent Protection:

A. Provide overcurrent protection for all wiring and equipment in accordance with the National Electric Code and all federal, state and local codes as required and/or shown on the drawings.

PART 2 - MATERIALS:

- 2.01 Conduit and Fittings:
 - A. Conduit and installation shall conform to the following: All wiring shall be in NEC approved raceways sized as shown on the drawings, or if not sized on the drawings, in accordance with the latest edition of the National Electric Code.

2.02 Fuses:

- A. All fuses shall be of the same manufacture as produced by Chase-Shawmut, Bussman or equal.
- B. Fuses for all circuits shall be of type recommended by the manufacturer and sized in accordance with the latest edition of the National Electric Code to provide a coordinated system of overcurrent protection.

2.03 Breakers:

- A. Breakers shall be of size and type as shown on drawings and schedules by Square D. General Electric, ITE or equal. Breakers shall, in general, be quick-make, quick-break; have toggle mechanism, insuring full contact pressure until time of opening whether manually or automatically operated; have inverse time tripping characteristics with fixed thermal and magnetic trip element which trips free; allow the thermal trip action to hold on harmless momentary overload; on short circuit or heavy overload, the magnetic trip element shall instantly trip without damage or injury; have non-welding, non-corroding contacts; mechanism enclosed in molded bakelite case, sealed to prevent tampering or unauthorized changes in calibtration; be U.L. listed amd meet NEMA standards.
- B. All multiple pole breakers shall have common trip. Wires, pins, etc. between single pole breakers to form common trip will not be acceptable. In general, all 120 volt lighting and receptacle circuits shall be run from 20 ampere single pole breakers. Where panel spaces are called for, they shall be complete with bus for future breaker installation. All breakers shall give a visual indication as to whether it is "ON", "OFF" or "TRIPPED.

2.04 Disconnects:

- A. Furnish and install, where noted on drawings or required, general duty front operated, enclosed safety switches as manufactured by Square D, General Electric, ITE, or
- B. Switches shall be in proper NEMA enclosure as required by location or as noted on drawings; quick—make and quick— break type; horsepower rated; capable of interrupting the locked rotor current of the motor served.
- C. Provide breaker ties for all single pole breakers serving multiwire circuits

2.05 Wire and Cable:

- A. All wire and cable shall comply with the latest specifications and requirements of the NFPA and/or the Insulated Power Cable Engineers Association and shall be of the quality as manufactured by Triangle, Cresent, General Cable, or equal.
- B. Wire and cable shall conform to the following, unless otherwise specified, noted on the plans, or required:
 - All conductors for wire and cable shall be copper based on 98% conductivity according to Matteisen's Standard, and shall be tinned or untinned in accordance with established standards for the type of insulation. Stranding and materials of conductors shall be in accordance with ASTM Designation B8 and B33. All wire and cable shall be stamped approximately every two feet to indicate voltage, type, temperature rating, etc.
- C. Conductors #10 AWG and smaller shall be solid, and those #8 AWG and larger shall be stranded.

2.06 Application of Wire and Cable:

Α.	Insulation for all wire or cable to b	e as follows:	
	General Use Areas	тн м, тнн	
	Wet or Moist Locations	THWN	
	Panel Feeders	THW, THWN	
	Service Entrance	THW, THW	

B. All insulated wiring or cables to be rated 600 volts unless otherwise specified.

2.07 Wiring Devices:

- Wiring devices, switches, convenience outlets, etc. shall be of 'Specification Grade' quality as manufactured by Pass & Seynour, Brvant. Hubbell or equal. All receptacles, room switches, etc. shall have finish as approved by the Architect. Gang plates shall be used for all multiple device locations.
- B. All power receptacles shall be of the grounded type.
- C. Cover plates to be specification grade stainless steel or phenolic "smooth" styling of color specified by Architect. In general, brown plates shall be used on paneled areas, ivory plates on painted surfaces and stainless steel in kitchen, restrooms or other tiled or damp areas.

PART 3 - EXECUTION:

3.01 Identification:

Overcurrent devices shall clearly indicate what they feed. For breaker panels this may be accomplished by means of the typewritten panel schedule mounted inside the cover door.

3.02 Conduit:

- Unless otherwise shown or indicated, all conduit in finished areas shall be concealed in walls, ceiling,
- Exposed conduit shall be installed parallel or at right angles to building lines both horizontally and vertically.
- 3.03 Equipment Furnished by Others:
 - A. Consult and coordinate with all parties furnishing equipment requiring electrical connections as necessary Verify exact requirements and component location. No extras will be allowed for relocation or replacement of electrical wiring or controls because of this Contractor's failure to coordinate with other Contractors.

END

SECTION 16400

SERVICE AND DISTRIBUTION

PART 1 - GENERAL

1.01 Utility Company Service: A. This Contractor shall furnish all labor, materials, etc., necessary for a complete approved electrical service as required by the in structure, including inspection and approval by the Utility

Company and local inspection departments, if applicable.

- B. The Electrical Utility Company shall provide the electrical service as shown or noted on the drawings. This Contractor's work is to begin at the weatherhead or as otherwise agreed. It is this Contractor's responsibility to consult with and coordinate with the Utility Company
- C. The main service voltage and current requirements shall be as shown on the drawings.

1.02 Service Requirements:

A. The electrical service (overhead or underground) shall comply with all requirements of the National Electrical Code, the local Utility Company and local codes. This Contractor is to consult with and work closely with the Utility Company to coordinate efforts and ascertain responsibility.

1.03 Metering:

Meter shall be furnished by the Utility Company and installed by this Contractor. Metering must be installed in accordance with the Utility Company requirements.

PART 2 - PRODUCTS:

- 2.01 Power, Distribution and Lighting Panelboards:
- A. All panelboards shall be enclosed in a code-gauge steel cabinet, have dead front construction, flush or surface mounted as shown, have matching one piece trim, have adequate wiring gutters for number of circuits and wiring size, have solderless main lugs and solid neutral, grouped on a common bar, have doors equipped with concealed hinge, spring lock or bar latches, have framed directory inside door with glass or plastic cover and type—written directory card, have fronts finished in laquer or enamel or flat prime coat ready for painting in finished areas, be U.L. approved.
- Branch circuit breakers shall be operable in any position and removable from the front of the panel without disturbing adjacent units. Panel shall be designed so as to permit a combination of one, two or three pole breakers to be readily assembled in one panel.
- Panelboards shall be of the type specified or NEC С. required for their location and application, and manufactured by General Electric, Square D, ITE, or approved equal.

PART 3 - EXECUTION:

3.01 Balancing of Loads:

- A. This Contractor shall balance all loads between phases in all panels, etc., around the neutral. Where common neutral is run for branch circuits, the phase wires of the home run shall be connected to seperate phase legs in order that the neutral shall carry only the unbalanced current of the phase circuits. Neutral conductors shall be same size as phase conductors unless specifically noted otherwise.
- B. Grounding conductors shall; be so installed as to permit shortest and most direct path from equipment to ground; be bonded at each end; have connections accessible for inspection and made with approved solderless connectors brazed or bolted to the equipment or structure to be grounded; in no case be a current carrying conductor; have a green jacket unless bare copper; be run in conduit with power conductors or in the case of multiconductor cable run inside the cable sheath.
- C. A main around, bare copper conductor, NEC sized, shall be run in conduit from the main switchgear to main water pipe, driven ground rod and building structural steel. Provide properly sized bonding shunt around water meter as required.
- Electrode clamps or connectors shall be manufactured by Anderson, Buchanan, Thomas & Betts, Burndy or equal. Mechanical lugs or wire terminals shall be used to bond ground wires together or to junction and panel boxes.
- E. All contact surfaces shall be thoroughly cleaned before connections are made to insure good metal-to-metal contracts.

END

SECTION 16500 LIGHTING

PART 1 - GENERAL:

1.01 Service:

- A. This Contractor shall carefully examine the complete area as well as each individual room in which fixtures are to be installed for interference with piping, beams, ducts, etc., and where any such interferences occur, shall provide approved fixtures of proper length, design and suspension to overcome such interferences.
- B. Where the catalog number of a fixture requires the specific type of ceiling to be called out, this Contractor shall obtain from the General Contractor the type ceiling and name of the Manufacturer.
- 1.02 Exit Lighting:
 - A. This Contractor is responsible for furnishing and installing a complete exit lighting system as shown on the drawings and meeting all requirements of local, state, federal, NEC and NFPA codes.
- 1.03 Emergency Lighting:
 - A. Furnish and install, where shown on the drawings, emergency lighting of type specified.
- PART 2 PRODUCTS:

2.01 Fixtures:

A. All fixtures shall be: U.L. approved; furnished with proper outlet boxes, hangers, etc.; securely fastened to outlet boxes; furnished complete installed with lamps of proper size and type required or as specified; complete with supports, pendants, canopy extensions, etc.; equipped with socket suspensions which prevent twisting of wiring when installing or removing lamps; wired with Type TF fixture wire; furnished with plaster frames and light-tight gaskets when recessed as required; hav specified finish.

2.02 Lamps and Ballasts:

- A. Unless otherwise specified; all incandescent lamps shall be heavy duty 130 volt inside frosted. Fluorescent and H.I.D. lamps shall have color characteristics as shown on the fixture schedule. All Fluorescent lamps shall be of 'Energy Efficient' type.
- B. Fluorescent ballasts shall be energy-saving, solid-state, full light output type. Electromagnetic interference shall be minimal. Ballast shall be protected from voltage transients and minimum power factor shall be 90%. Ballast current third harmonic content shall be less than 10%. Average input wattage shall be 65 or less when operating 2 - 32 watt energy-saving lamps. Ballasts shall be as manufactured by Magnetek or approved equal by Advance or Motorola.

PART 3 - EXECUTION:

3.01 Finish:

A. The finished appearance of the workmanship on all fixtures installed under this contract shall have the approval of the Architect before final acceptance is made.

END



× , TOP STRAND (MIN. 10 GAGE) BOTTOM STRAND (MIN. 10 GAGE)

* t •

FRONT ELEVATION

- VARIABLE

(10'-0" MAX. OR AS DIRECTED BY THE

ENGINEER)

STAY WIRES

(MIN. 12 GAGE)

- NOTES: WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL 1. HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN 2. WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5'-0" IN HEIGHT AND 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 9 GAGE WIRE STAPLES 1" LONG.

STEEL OR

WOOD POST -

3'-0"

2'-0*

- VARIABLE

WIRE FENCE

---- 6" MIN

COMPACT.

GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FENCE.

(D)

SILT FENCE DETAILS SCALE: N.T.S.

- WIRE FENCE

_GEOTEXTILE

LINE WIRES

GROUND

LINE -

GROUND LINE

FABRIC



0.7 STAPLES PER SQ. YD. Blankets with the North American Green DOT System place staples/stakes through each of the BLUE colored dots.



1.2 STAPLES PER SQ. YD. Blankets with the North American Green DOT System place staples/stakes through each of Green DOT System place staples/stakes through the RED colored dots.



Blankets with the North American each of the GREEN colored dots.

4" ♦ • • **---**3.4 STAPLES PER SQ. YD.

Blankets with the North American Green DOT System place staples/stakes through each of the WHITE colored dots.

DRAINAGE BLANKET STAPLE PATTERN TYPES SCALE: N.T.S.



NOTE: SEE EROSION CONTROL PLAN

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

DRAINAGE BLANKET "SLOPE" INSTALLATION

NOTE: WATTLES SHALL BE USED IN PLACE OF HAY BALES FOR ALL EROSION CONTROL MEASURES SHOWN BELOW, SEE SHEET SD2.2





DROP INLET

NOTE: SEE EROSION CONTROL PLAN

FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH

IN CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER

8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND

NOTE: * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.



DRAINAGE BLANKET "CHANNEL" INSTALLATION



- MENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER.
- 2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.







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hose to surround a minimum of two trunks
Agricultural Stake
One third of root ball width and min. of 6"
 Plant flush with existing grade
Excavate to 2'- 0" minimum and backfill with topsoil mixture

			PLANT MAT	FERIAL LIST
	SYMBOL	COMMON NAME ·	SCIENTIFIC NAME	PLANTING METHOD
TREES		NATCHEZ' CRAPE MYRTLE	LARGERSTROEMIA INDICA 'NATCHEZ'	A
	· · ·			
SHRUBS				
		· · · · · · · · · · · · · · · · · · ·		
GROUND COVER	+)	ANDORRA JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA'	С
		BIG BLUE LIROPE	LIROPE MUSCARI 'BIG BLUE'	D

SIZE / HABITAT	COMMENTS		
10'–12' / AS SHOWN ON PLAN	MULTI TRUNK SPECIMEN		
3 GAL / 3' O.C.			
4" POT / 6" O.C.			











