BOARD OF SUPERVISORS

MADISON COUNTY, MISSISSIPPI

Department of Engineering Tim Bryan, P.E., PTOE, County Engineer 3137 South Liberty Street, Canton, MS 39046 Office (601) 855-5582 FAX (601) 859-5857

MEMORANDUM

January 2, 2024

To: Casey Brannon, Supervisor, District I

Trey Baxter, Supervisor, District II Gerald Steen, Supervisor, District III Karl Banks, Supervisor, District IV Paul Griffin, Supervisor, District V

From: Tim Bryan, P.E., PTOE

County Engineer

Re: Telepak Networks DBA CSpire Utility Permit

County Road Name, Hampton Crossing/Caroline Blvd.

The Engineering Department recommends approval of the permit application for Telepak Networks DBA CSpire to place a fiber-optic internet facility by method of directional bore, beginning at existing HH located on Lake Caroline (section 8) (Martinique) project. The total pipe length of 8,813 ft. will provide high speed internet access to residents of the new subdivision (north of Beatty Woods subdivision) and the county road names listed below.

- Hampton Crossing/Caroline Blvd.
- Emersons Way
- Grayson Way
- Griffis Lane

Revised: 2/14/2019



PERMIT APPLICATION FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY WITHIN COUNTY ROAD RIGHT-OF-WAY

Utility Information:	Utility Name: <u>Te</u>	lepak Networks	DBA	C Spire	
Address: 1018 High					and, MS 39157
Contact Person: Brett	Boling bboling	g@cspire.com	Contact'	s Phone: 601-6	324-4578
Project Information: Total Pipe	County Road Nan 32.557834°, -90.17326	(If located within more th	<u>_</u>		d ix 1 for additional descriptions)
Beginning Location:		Bay Dr Endin	g Locatior	n: Griffis Ln	
Total Pipe Length of Project: 8,8		Section: 11	_		Range: 1E
Description of Work: _	C Spire job:	Emerson Way o	f Lake C	Caroline	
Placement of fiber-optic i	internet facility by me	ethod of directional bore	, beginning	g at	
existing HH located on La	ake Caroline (section	า 8) (Martinique) project	. The total	pipe ength of 8,8	13 ft.
will provide high-speed i	nternet to residents	of the new subdivision (north of Be	eatty Woods subd	ivision).

Check Box if Appendix 1 is to be included as a part of this Application

Whereas the above stated Utility makes application to the **Madison County Board of Supervisors** for a Construction Permit. Attached hereto are drawings and plans for the construction of the above facilities located within Madison County owned public rights-of-way. Once stamped by the Madison County Engineering Department, these plans shall not be changed or altered without written approval of the County Engineer, or his representative. A copy of the approved permit and plans shall be on-site at all times during construction.

The Applicant Utility shall comply with all policies, procedures and construction practices as outlined in *A Policy for The Accommodation of Utility Facilities within the Right-of-Way of all Public County Roads* (hereinafter referred to as the "Policy"), as adopted on November 1, 2005, by the **Madison County Board of Supervisors**, and which is hereby made a part of this Application Agreement.

If facilities are to be located within the Rights-of-Way of the County-Federal or State Aid System, Applicant Utility also agrees to comply with applicable provisions of *S.O.P. No. SA II-2-8, Accommodation of Utilities on Rights-of-Way,* issued by the State Aid Engineer and dated July 1, 2005.

The Applicant Utility understands and agrees that, except as herein granted, no right, title, claim, or easement to said road right-of-way is granted by the issuance of this permit. If this Utility is listed in the general provisions of the Policy, it will be adjusted to comply with same without cost to the County, unless the variance from the Policy has been approved by the granting of the Permit pursuant to this Application.

The Applicant Utility further understands that the Utility's engineering, plant, or other personnel will be responsible for the staking and construction supervision of the work set out above and as shown on the attached plans. If work impacts traffic in any way, the appropriate traffic control shall be installed per the *Manual of Uniform Traffic Control Devices*, Latest Edition.

The Applicant Utility understands that the County Engineer, or his representative, may issue a Stop Work Order at any time if it is deemed that site conditions are not suitable for construction or if any of the requirements of this permit are not being met.

Many County Roads have variable Rights-of-Way and/or no Right-of-Way at all and are maintained under a Prescriptive Easement. It is the sole responsibility of the Applicant Utility to verify the existence and limits of public rights-of-way. If none exists, it is the

responsibility of the Applicant Utility to acquire an easement for their Facilities from the applicable property owner(s). Madison County in no way verifies the limits of Right-of-Way as shown on the permit application.

The Applicant Utility shall be responsible for all future maintenance and repair of the facilities installed under this permit. The Applicant Utility shall make future adjustments to, or relocate, the facilities located within road or highway right-of-way when required for road or highway widening or other road or highway construction at no cost to Madison County. The Applicant Utility shall relocate said utilities within sixty (60) days of notification by County by registered mail, return receipt requested, unless otherwise designated by the County Engineer. Further, any maintenance, repair, or construction shall be done in such a manner as to occasion no unreasonable interference with the normal flow and safety to traffic and at the expense of the utility company. When reasonable care has been taken to locate said utility facilities within the right-of-way, the Applicant Utility understands that any damages caused by routine maintenance and construction by County forces shall be borne by the Applicant Utility.

The Applicant Utility further agrees to indemnify and hold Madison County harmless for any and all claims, accidents, damages, liabilities and expenses occasioned wholly, or in part, by any act or omission of applicant, its agents or employees. In case County shall, without fault on its own part, be made a party to any litigation commenced by or against applicant, then applicant shall protect and hold County harmless, and shall pay all costs, expenses and reasonable attorney's fees incurred or paid by County in connection with said litigation.

All underground facilities shall be installed at a depth equal to or greater than 48" below the lowest adjacent grade.

All pipes carrying liquid shall be encased under County maintained roads.

WITNE	$1si$ SS the signature of the Applicant this the $__$	t da	y of _	January	, 20 <u>24</u>
		By:		Bun A	8
				(Appli	cant Signature)
		Title:	OS —	P FTTH En	gineer, C Spire
Note:	Applicant must be an employee of the Utility named a Contractor, Subcontractor, Agent, or Consulting En performed under this application.			•	
plans s	y authorized representative, have reviewed ubmitted by the Applicant meet the requiren				_
tne Rig	ht-of-Way of all Public County Roads.		Al	PPROVED	
		By:	Ву	timothy.bryai	n at 10:53 am, Jan 10, 2024
		`			yan, P.E.
AGREE	D TO AND APPROVED BY:			County	/ Engineer
				Date:	
	Madison County Board President				
ENTER	ED INTO THE MINUTES OF THE BOARD O	OF SUPERVIS	ORS	OF MADISON (COUNTY, MISSISSIPPI ON THIS
	DAY OF,	20			

Appendix 1

County Road Name:	Hampton Cross	sing / Carolii	ne Bivd		
	32.557834°, -90.1			32.551707°, -9	00.170599° orth of Paylors Way
	,300ft.				
Description of Work	Placing fiber by	/ method of	directional bore	9	
· 					
	Emersons Way				
	32.551669°, -90.1				
	40 ft.				Range: 1E
Description of Work	: Placing fiber by	/ method of	directional bore	9	
	Ones to a second				
County Road Name:					
	32.5532646, -90.1				
	,400 ft.				Range: 1E
Description of Work	Placing fiber by	/ method of	directional bore		
	Criffic Lp				
County Road Name:	O 550705° 00 4	700500		20.5507720	00.4007000
Beginning Location:	32.550795°, -90.1	73259°	Ending Location:	32.550773°	, -90.169708°
Length of Project: 1	,710 ft.	Section: 11	Township:	8N	Range: 1E
	Dlacing fibor by				
Description of Work	: Flacing liber by	method of	directional bore	9	
Description of Work	Flacing liber by	/ method of	directional bore	9	
Description of Work		/ method of	directional bore	9	
County Road Name:					
County Road Name: Beginning Location:			Ending Location:		
County Road Name: Beginning Location: Length of Project:		Section:	Ending Location: Township:		
County Road Name: Beginning Location: Length of Project:		Section:	Ending Location: Township:		



EMERSON WAY OF LAKE CAROLINE

CITY OF MADISON MADISON COUNTY, MISSISSIPPI 12/7/23



PERMITS REQUIRED

CITY:

N/A

COUNTY:

RAILROAD:

YES

MDOT :

N/A

FEDERAL:

N/A N/A

PRIVATE R/W: N/A

MISC:

: N/A

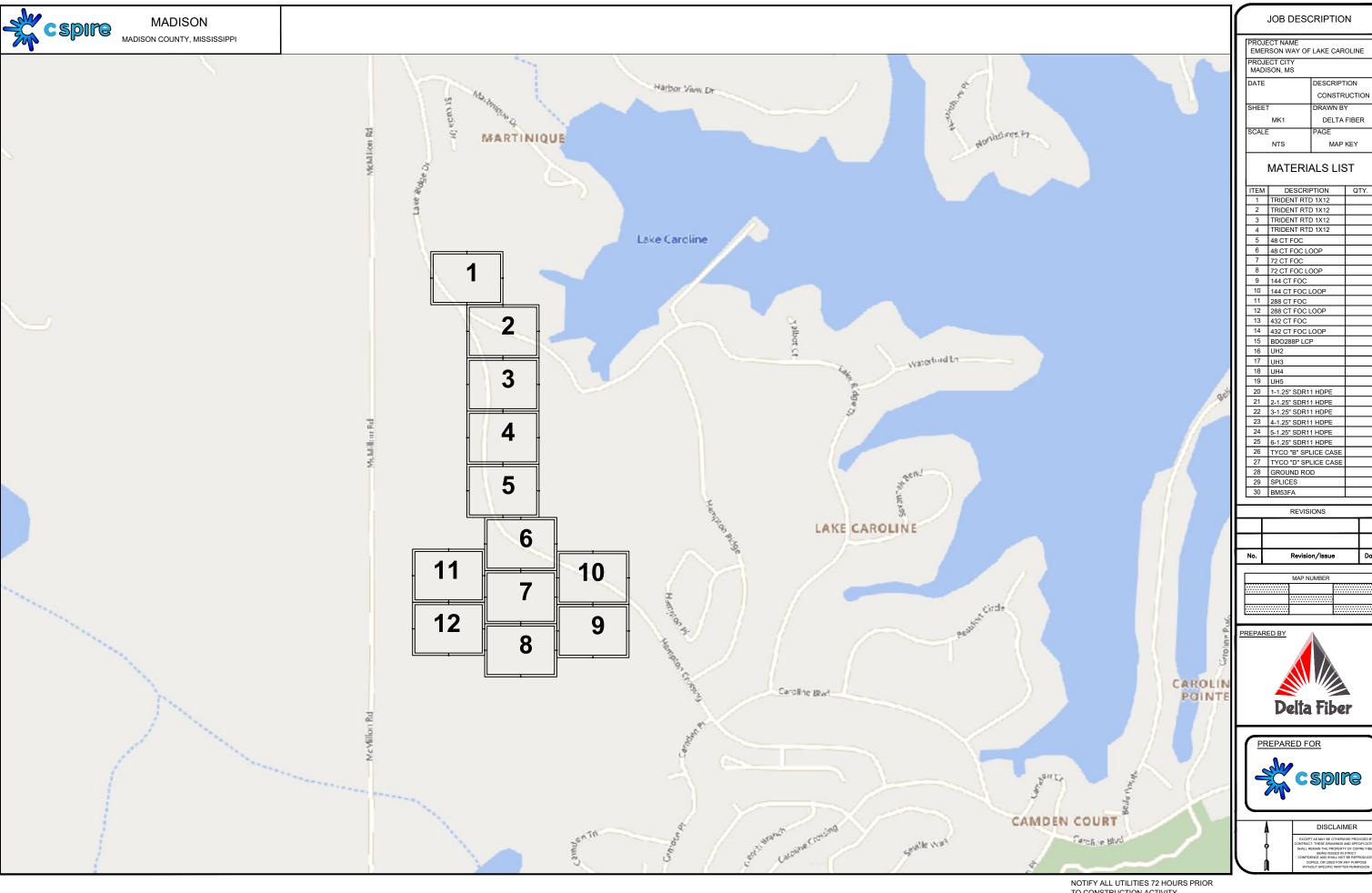
HOUSE COUNT

OCCUPIED: 0 VACANT: 69

TOTAL: 69

PREPARED BY:





MK1

TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477

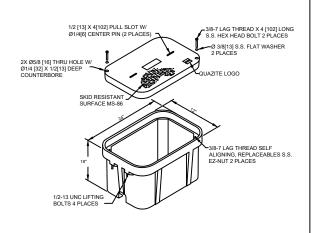
DELTA FIBER

MAP KEY

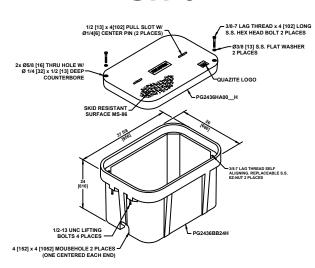


MADISON COUNTY, MISSISSIPPI

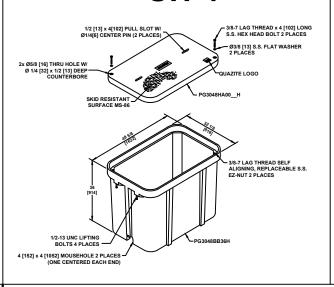
UH-2



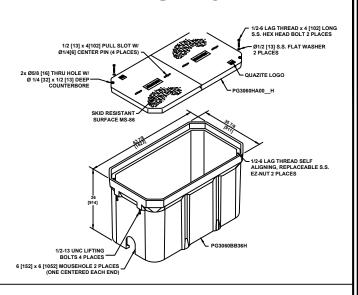
UH-3



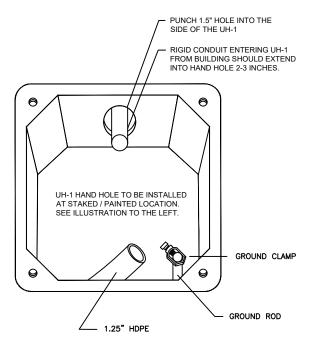
UH-4



UH-5

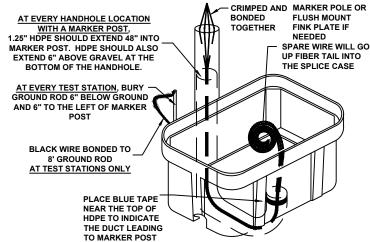


TYPICAL UH-1 / UH-2 HAND HOLE INSTALLATION PROCEDURES AT BUILDING ENTRIES



UH-1 / UH-2 INSTALLATION LOCATION WILL BE MARKED BY A STAKE AND/OR PAINT. CSPIRE/ OSP WILL INSTALL CONDUIT 8" UNDERGROUND TO DESIRABLE UH-1 LOCATION.

TYPICAL HAND HOLE INSTALLATION



- 2. ALL ENCLOSURES, BOXES AND COVERS, ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF ANSI/SCTE 77 2007 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" AS MANUFACTURED BY QUAZITE OR **EQUIVALENT WITH TELEPAK NETWORK'S ENGINEER'S** SIGNED APPROVAL. THE COVERS MUST BE RATED FOR TIER 15 APPLICATIONS AND BOXES RATED FOR TIER 22 APPLICATIONS AND IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFACE TOOLING, ALL COVERS ARE REQUIRED TO HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50 IN ACCORDANCE WITH ASTM C 1028 AND HAVE TIER 15 AND "TELEPAK NETWORKS 800-342-3716" EMBOSSED ON THE TOP SURFACE. ALL COVER BOLTS TO BE SELF-CLEANING AUGER BOLT

DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

WEIGHT

933# 423KG

563# 255KG

284# 129KG

PIGTAILS ARE TO BE INSTALLED AT TEST STATION (T.S.) ONLY.

HANDHOLES ARE TO BE INSTALLED A MINIMUM OF THREE FEET

PART NO.

PG3060Z501

PG30487579

PG2436Z905

FROM ANY UTILITY OR POWER POLE.

BOXES (Nestable)

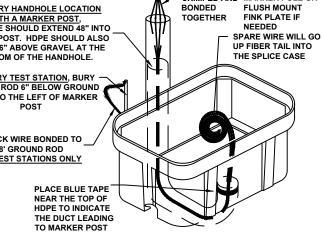
UH-5 30x60x36

UH-4 30x48x36

UH-3 24x36x24

DESCRIPTION

ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMEN @ 42" DOC UNLESS OTHERWISE NOTED



DESIGN/TEST

33,500 LBS

33.500 LBS

33.500 LBS

LOAD#

- 1. THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS. [66,720 N] OVER A 10 [254] X 10 [254] AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 33,500 LBS.

DISCLAIMER

JOB DESCRIPTION

EMERSON WAY OF LAKE CAROLINE

MATERIALS LIST

DESCRIPTION TRIDENT RTD 1X12 TRIDENT RTD 1X12 TRIDENT RTD 1X12 4 TRIDENT RTD 1X12 5 48 CT FOC 6 48 CT FOC LOOP 7 72 CT FOC

8 72 CT FOC LOOP 9 144 CT FOC 10 144 CT FOC LOOP 11 288 CT FOC 12 288 CT FOC LOOP 13 432 CT FOC

14 432 CT FOC LOOP

20 1-1.25" SDR11 HDPE

21 2-1.25" SDR11 HDPE

23 4-1.25" SDR11 HDPE

24 5-1.25" SDR11 HDPE

25 6-1.25" SDR11 HDPE

26 TYCO "B" SPLICE CASE

27 TYCO "D" SPLICE CASE

REVISIONS

Revision/Issue

MAP NUMBER

Delta Fiber

PREPARED FOR

28 GROUND ROD

29 SPLICES

30 BM53FA

PREPARED BY

15 BDO288P LCP 16 UH2 17 UH3 18 UH4 19 UH5

DESCRIPTION CONSTRUCTION

DELTA FIBER

TYPICALS

ROJECT NAME

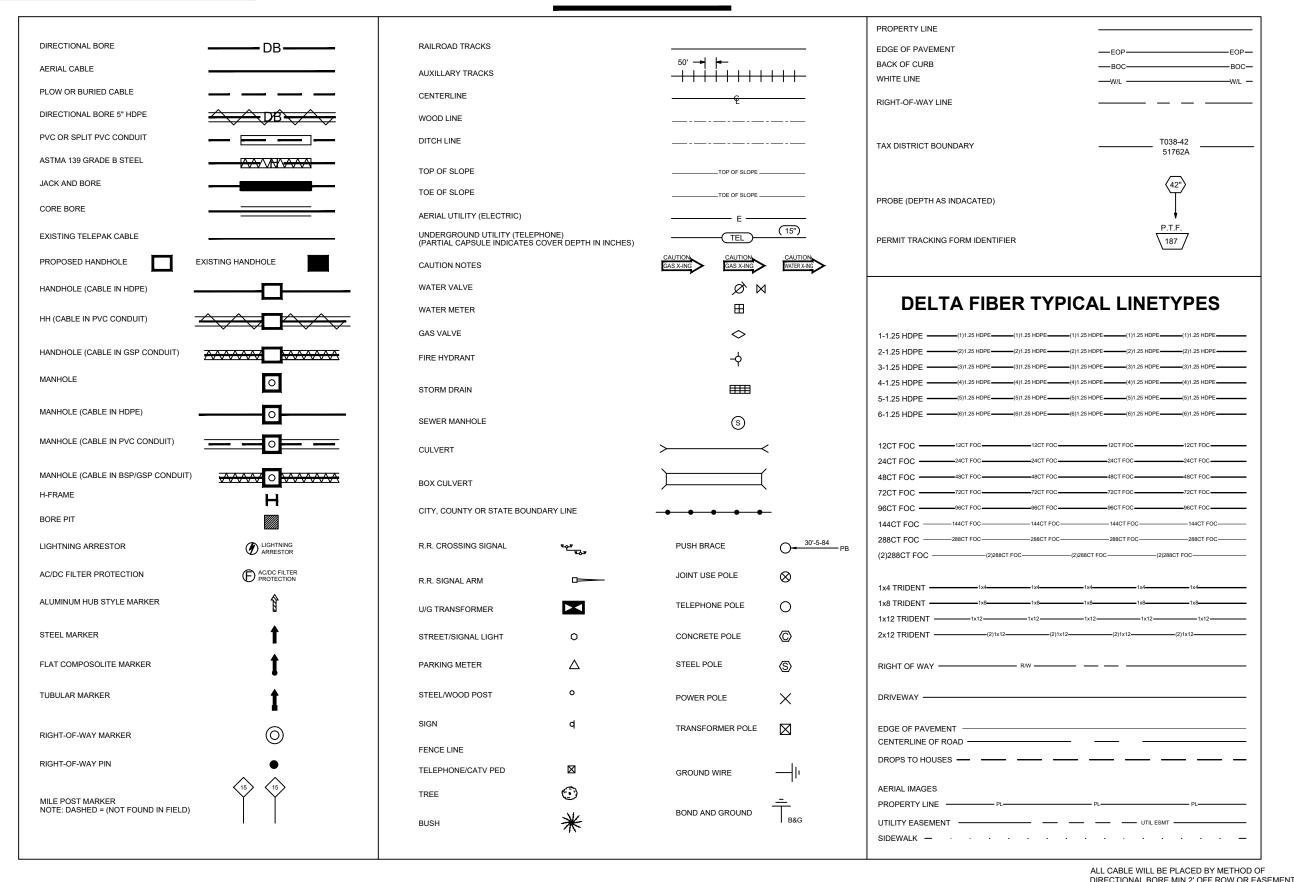
PROJECT CITY MADISON, MS

TYPICALS



MADISON COUNTY, MISSISSIPPI

SYMBOLS KEY



JOB DESCRIPTION

PROJECT NAME EMERSON WAY OF	LAKE CAROLINE
PROJECT CITY MADISON, MS	
DATE	DESCRIPTION
	CONSTRUCTION
SHEET	DRAWN BY
LEGEND	DELTA FIBER
SCALE	PAGE
NTS	LEGEND
MATERIA	ALS LIST

TRIDENT RTD 1X12

2 TRIDENT RTD 1X12

DESCRIPTION QTY.

	3	TRIDENT RTD 1X12	
	4	TRIDENT RTD 1X12	
	5	48 CT FOC	
	6	48 CT FOC LOOP	
	7	72 CT FOC	
	8	72 CT FOC LOOP	
	9	144 CT FOC	
	10	144 CT FOC LOOP	
	11	288 CT FOC	
	12	288 CT FOC LOOP	
	13	432 CT FOC	
	14	432 CT FOC LOOP	
	15	BDO288P LCP	
	16	UH2	
	17	UH3	
	18	UH4	
	19	UH5	
	20	1-1.25" SDR11 HDPE	
	21	2-1.25" SDR11 HDPE	
	22	3-1.25" SDR11 HDPE	
	23	4-1.25" SDR11 HDPE	
	24	5-1.25" SDR11 HDPE	
	25	6-1.25" SDR11 HDPE	
	26	TYCO "B" SPLICE CASE	
	27	TYCO "D" SPLICE CASE	
	28	GROUND ROD	
	29	SPLICES	
	30	BM53FA	
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	REVISIONS	
No.	Revision/Issue	Date
	MAP NUMBER	

MAP NUMBER		



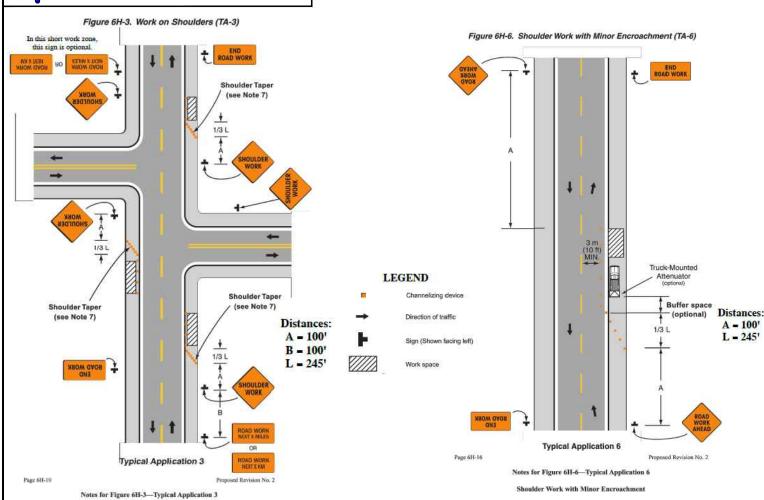


DISCLAIMER

@ 42" DOC UNLESS OTHERWISE NOTED.



MADISON COUNTY, MISSISSIPPI



CONSTRUCTION SIGNS

FLUORESCENT ORANGE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS







NOTE: W20-1 SIGNS ARE REQUIRED WHEN SHOULDER WORK IS PERFORMED WITH MINOR ENCROACHMENT TO TRAVEL LANE OR FLAGGING OPERATIONS. SEE TCP-2, FIGURE 6H-6.

DISTANCE BETWEEN SIGNS			•
ROAD TYPE	А	В	С
URBAN (35 MPH OR LESS)	100 FT.	100 FT.	100 FT.
URBAN (40 - 70 MPH)	350 FT.	350 FT.	350 FT.
RURAL	500 FT.	500 FT.	500 FT.
EXPRESSWAY / FREEWAY	1000 FT.	1500 FT.	2640 FT.

NOTES

- 1. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH PART VI OF THE MUTCD (LATEST EDITION).
- 2. SIGNS ARE ONLY REQUIRED WHILE CONTRACTOR IS WORKING. THEY SHALL BE INSTALLED PRIOR TO WORK COMMENCING EACH DAY AND REMOVED WHEN WORK IS COMPLETED AT THE END OF THE DAY.
- 3. SIGNS MAY BE MOUNTED ON TRIPODS. THE LOCATION AND SPACING OF SIGNS, AS SHOWN ON THESE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS.
- 4. CHANNELIZING DEVICES ARE NOT SHOWN ON THIS PLAN, BUT ARE REQUIRED AROUND ACTIVE WORK ZONES (SEE TCP-2).

WORK ON SHOULDERS

Work on Shoulder

GUIDANCE:

 A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

OPTION:

- 2. The workers symbol signs may be used instead of SHOULDER WORK signs.
- 3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
- 4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated rotating lights or strobe lights is used.
- 5. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

STANDARD:

- 6. Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.
- 7. When paved shoulders having a width of 2.4 m (8ft) or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.

SHOULDER WORK WITH MINOR ENCROACHMENT

GUIDANCE:

- 1. All lanes should be a minimum of 3 m (10ft) in width as measured to the near face of the channelizing devices.
- The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.

OPTION:

- For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 2.7 m (9ft) may be used.
- 4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of 3 m (10ft) is maintained.
- 5. Additional advance warning may be appropriate, such as ROAD NARROWS sign.

- 6. Temporary traffic barriers may be used along with the work space.
- 7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
- 8. A truck-mounted attenuator may be used on the shadow vehicle.
- For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated rotating lights or strobe lights is used.
- 10. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

STANDARD:

11. Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.

JOB DESCRIPTION

PROJECT NAME EMERSON WAY OF	LAKE CAROLINE
PROJECT CITY MADISON, MS	
DATE	DESCRIPTION
	TRAFFIC CONTROL
SHEET	DRAWN BY
TC1	DELTA FIBER
SCALE	PAGE
	TC1

MATERIALS LIST

	MATERIALS LIS	ST
ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	48 CT FOC	
6	48 CT FOC LOOP	
7	72 CT FOC	
8	72 CT FOC LOOP	
9	144 CT FOC	
10	144 CT FOC LOOP	
11	288 CT FOC	
12	288 CT FOC LOOP	
13	432 CT FOC	
14	432 CT FOC LOOP	
15	BDO288P LCP	
16	UH2	
17	UH3	
18	UH4	
19	UH5	
20	1-1.25" SDR11 HDPE	
21	2-1.25" SDR11 HDPE	
22	3-1.25" SDR11 HDPE	
23	4-1.25" SDR11 HDPE	
24	5-1.25" SDR11 HDPE	
25	6-1.25" SDR11 HDPE	
26	TYCO "B" SPLICE CASE	
27	TYCO "D" SPLICE CASE	
28	GROUND ROD	
29	SPLICES	
30	BM53FA	

	REVISIONS	
No.	Revision/Issue	Da

MAP NUMBER	





DISCLAIMER

EXCEPT AS MAY BE CHIENTINE PROVIDED

CONTRACT. THESE DRAWNINGS AND SPECIFICAC

SMAL REMAN THE PROPERTY OF CEPTER FIR

COMPEDIE AND SIZE OF THE PROPERTY OF CEPTER FIR

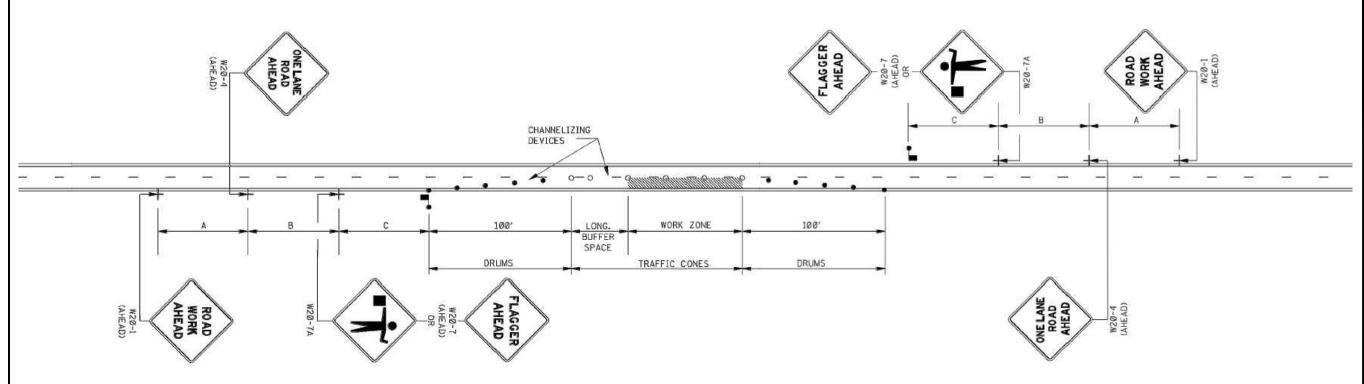
COMPEDIE CONTRACT. OF CONTRACT OF CEPTER FIR

WITHOUT SPECIFIC WITH THE PROPERTY OF CEPTER FIRE

WITHOUT SPECIFIC WITH THE PREMISSION.



MADISON COUNTY, MISSISSIPPI



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE. FLAGGER STATIONS SHALL BE LOCATED SUCH THAT APPROACHING VEHICLES WILL HAVE SUFFICIENT DISTANCE TO STOP. VALUES IN STOPPING SIGHT DISTANCE COLUMN MAY BE USED AS A MINIMUM FOR THIS DISTANCE.

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE	STOPPING SIGHT	
mph	TAPER	ALONG LANE LINE & WORK ZONE	(ft)	DISTANCE	
25	20	50	55	155	
30	20	60	85	200	
35	20	70	120	250	
40	20	80	170	305	
45	20	90	220	360	
50	20	100	280	425	
55	20	110	335	495	
60	20	120	415	570	
65	20	130	485	645	

NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

- 2. ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 3. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHALL BE A MINIMUM OF 36" x 36" AND BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- 4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND ALL CHANNELIZING DEVICES SHALL BE MOVED TO THE SHOULDER EDGE.
- 5. ADDITIONAL FLAGGERS MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- 6. WHEN WORK IS REQUIRED AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.
- 7. CHANNELIZING DEVICE TYPES FOR:
 A. APPROACH AND EXIT TAPERS RETROREFLECTIVE PLASTIC DRUMS
 B. ALONG LANE LINE AND WORK ZONE TRAFFIC CONES (28" HEIGHT)
- 8. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

JOB DESCRIPTION

PROJECT NAME EMERSON WAY OF	PROJECT NAME EMERSON WAY OF LAKE CAROLINE		
PROJECT CITY MADISON, MS	1		
DATE	DESCRIPTION		
	TRAFFIC CONTROL		
SHEET	DRAWN BY		
TC2	DELTA FIBER		
SCALE	PAGE		
	TC2		

MATERIALS LIST

TRIDENT RTD 1X12 TRIDENT RTD 1X12 TRIDENT RTD 1X12 TRIDENT RTD 1X12 48 CT FOC 48 CT FOC LOOP 72 CT FOC 72 CT FOC LOOP 144 CT FOC	
TRIDENT RTD 1X12 TRIDENT RTD 1X12 48 CT FOC 48 CT FOC LOOP 72 CT FOC 72 CT FOC LOOP 144 CT FOC	
TRIDENT RTD 1X12 48 CT FOC 48 CT FOC LOOP 72 CT FOC 72 CT FOC LOOP 144 CT FOC	
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144 CT FOC LOOP	
288 CT FOC	
288 CT FOC LOOP	
432 CT FOC	
432 CT FOC LOOP	
BDO288P LCP	
UH2	
UH3	
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1-1.25" SDR11 HDPE	
2-1.25" SDR11 HDPE	
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4-1.25" SDR11 HDPE	
5-1.25" SDR11 HDPE	
6-1.25" SDR11 HDPE	
TYCO "B" SPLICE CASE	
TYCO "D" SPLICE CASE	
GROUND ROD	
SPLICES	
	UH3 UH4 UH5 1-1.25" SDR11 HDPE 2-1.25" SDR11 HDPE 3-1.25" SDR11 HDPE 4-1.25" SDR11 HDPE 5-1.25" SDR11 HDPE 6-1.25" SDR11 HDPE 6-1.25" SDR11 HDPE TYCO "B" SPLICE CASE TYCO "D" SPLICE CASE GROUND ROD

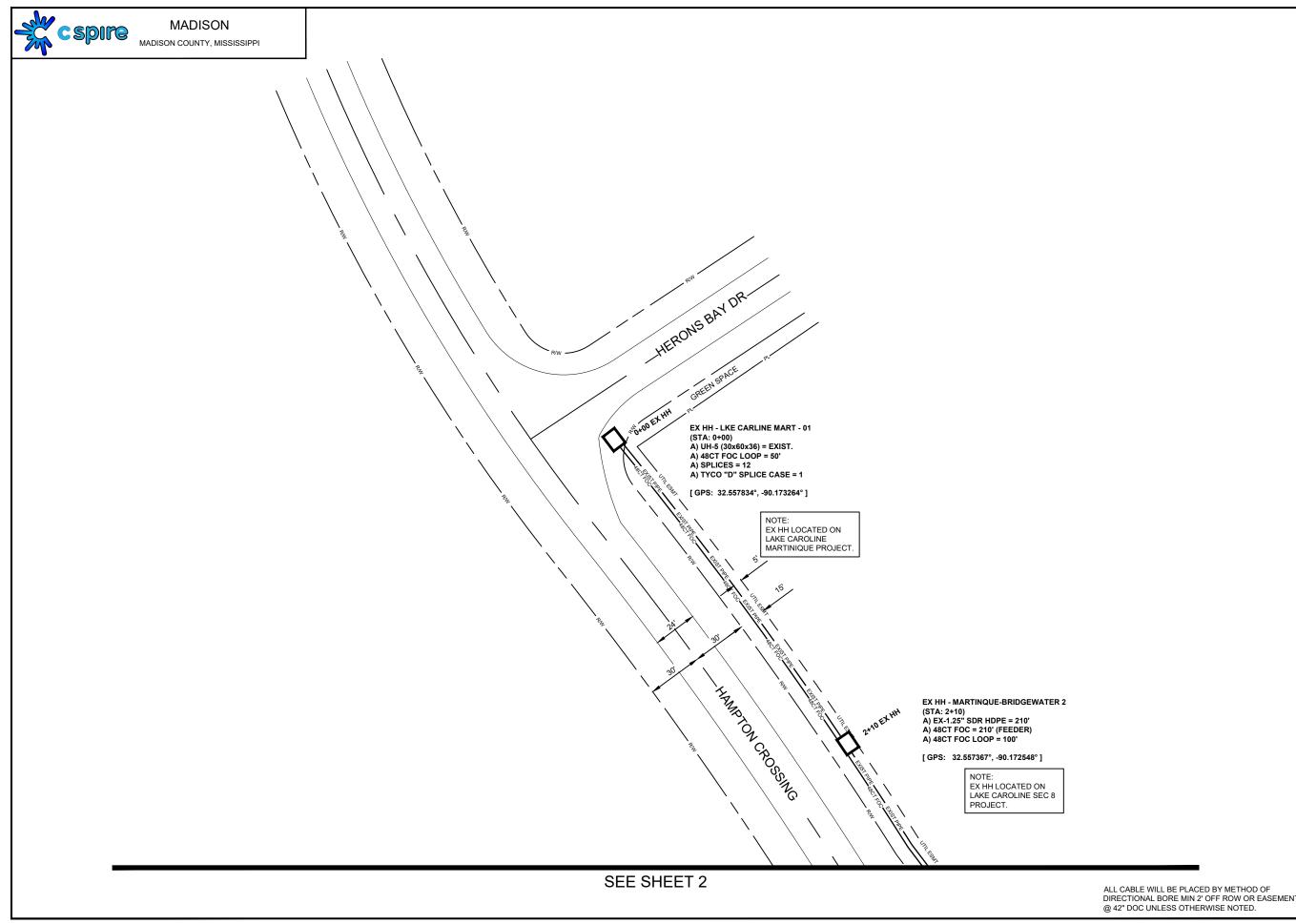
	REVISIONS	
No.	Revision/Issue	Date
	MAP NUMBER	- 1

MAP NUMBER	





A	DISCLAIMER
	EXCEPT AS MAY BE OTHERWISE PRICONTRACT: THESE DRAWINGS AND SPI SHALL REMAIN THE PROPERTY OF CS BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REF COPIED, OR USED FOR ANY PUR WITHOUT SPECIFIC WRITTEN PERI



PROJECT NAME EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON DESCRIPTION SHEET 001 CONSTRUCTION DELTA FIBER 1"=50'

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	210
8	48 CT FOC LOOP	150
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	
22	UH3	
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	
26	2-1.25" SDR11 HDPE	
27	3-1.25" SDR11 HDPE	
28	EX-1.25" SDR11 HDPE	210
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	1
31	GROUND ROD	
32	SPLICES	12
33	BM53FA	

REVISIONS

Revision/Issue

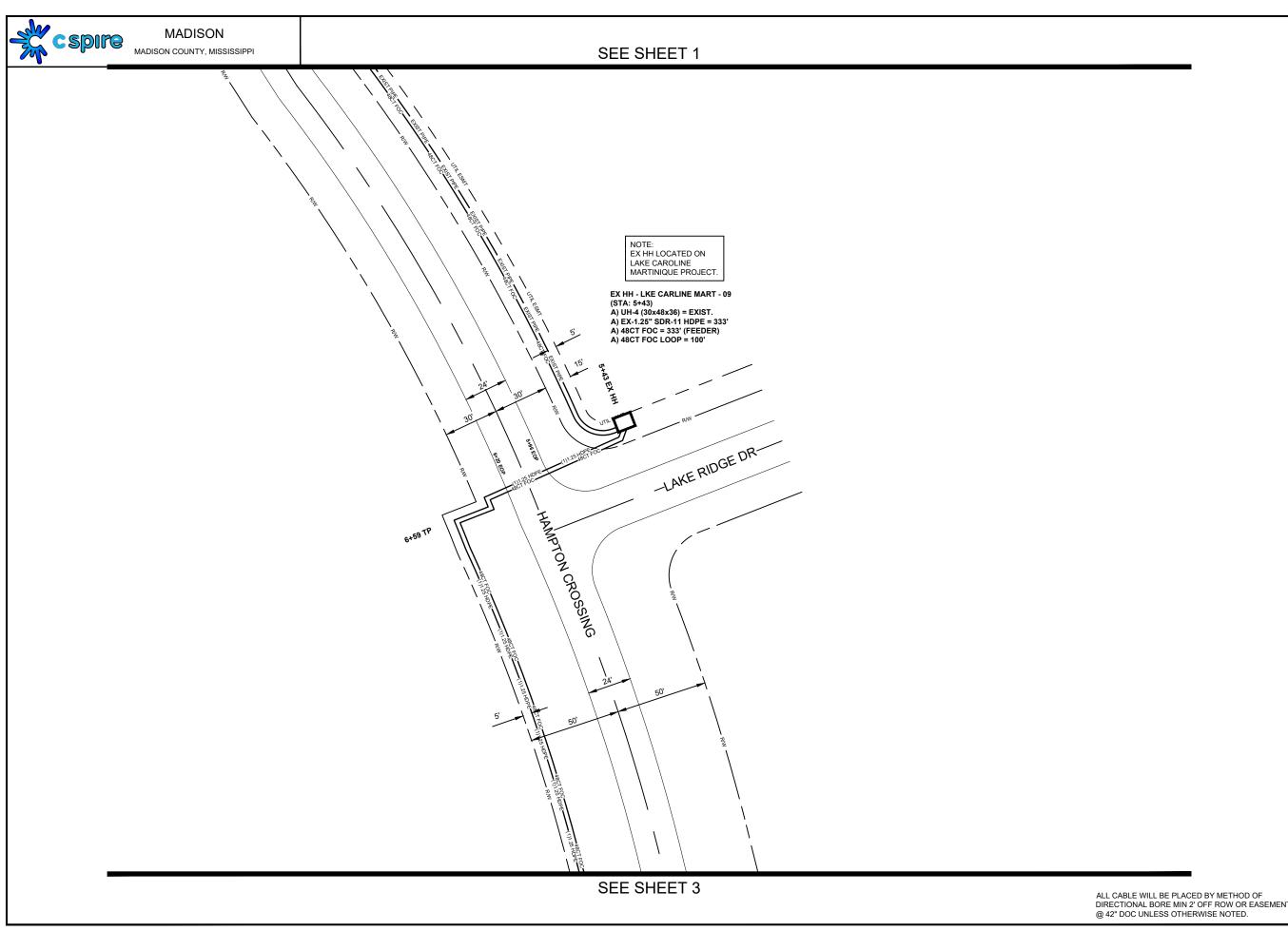
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PROJECT NAME EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON DESCRIPTION SHEET 002 CONSTRUCTION DELTA FIBER 1"=50'

MATERIALSTIST

TEM	DESCRIPTION	QTY
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	333
8	48 CT FOC LOOP	100
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	
22	UH3	
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	
26	2-1.25" SDR11 HDPE	
27	3-1.25" SDR11 HDPE	
28	EX-1.25" SDR11 HDPE	333
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
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Revision/Issue

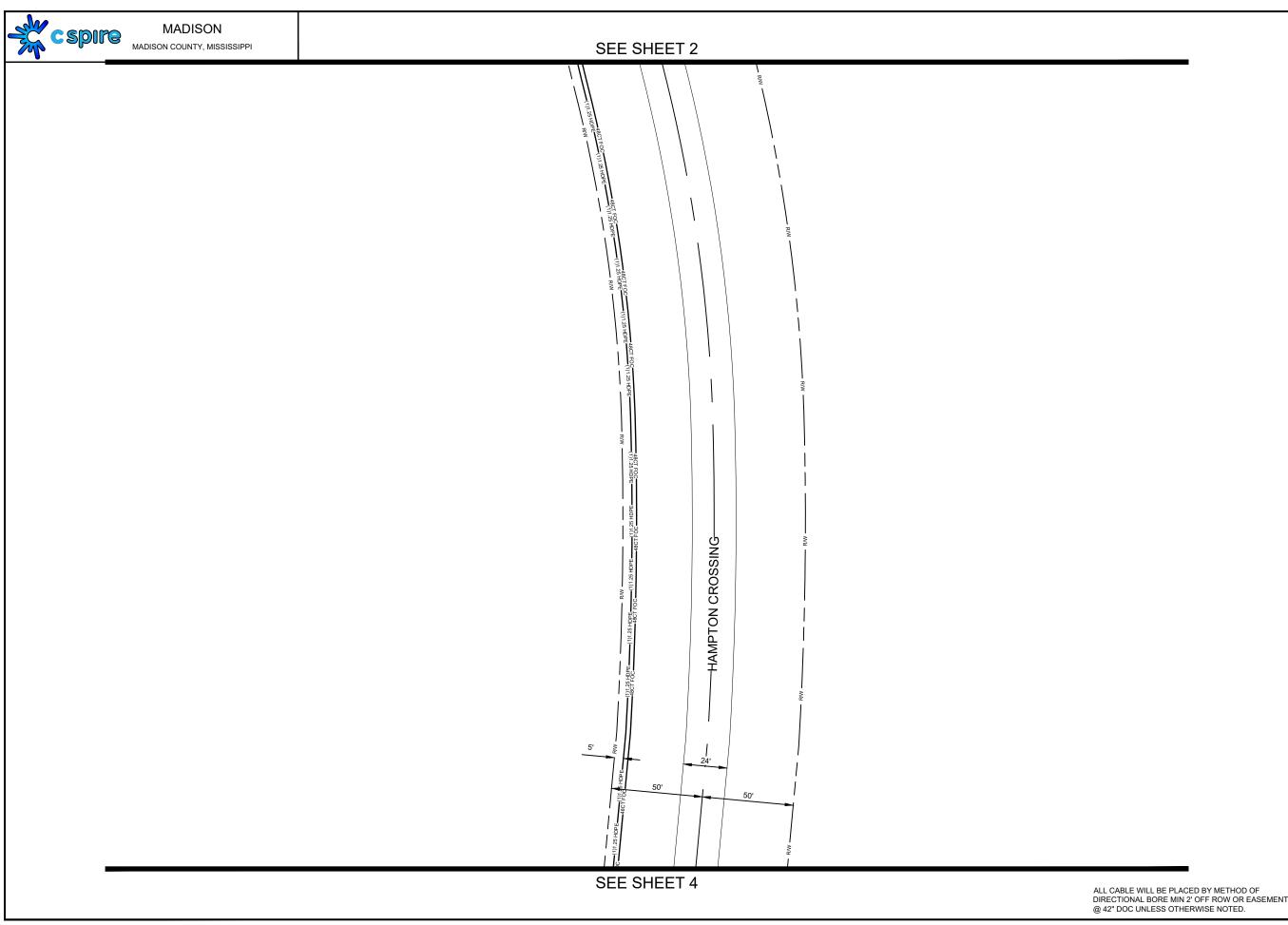
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DISCLAIMER



PROJECT NAME
EMERSON WAY OF LAKE CAROLINE
PROJECT CITY
MADISON

SHEET DESCRIPTION
003 CONSTRUCTION

SCALE DRAWN BY
1"=50' DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	
22	UH3	
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	
26	2-1.25" SDR11 HDPE	
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
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REVISIONS

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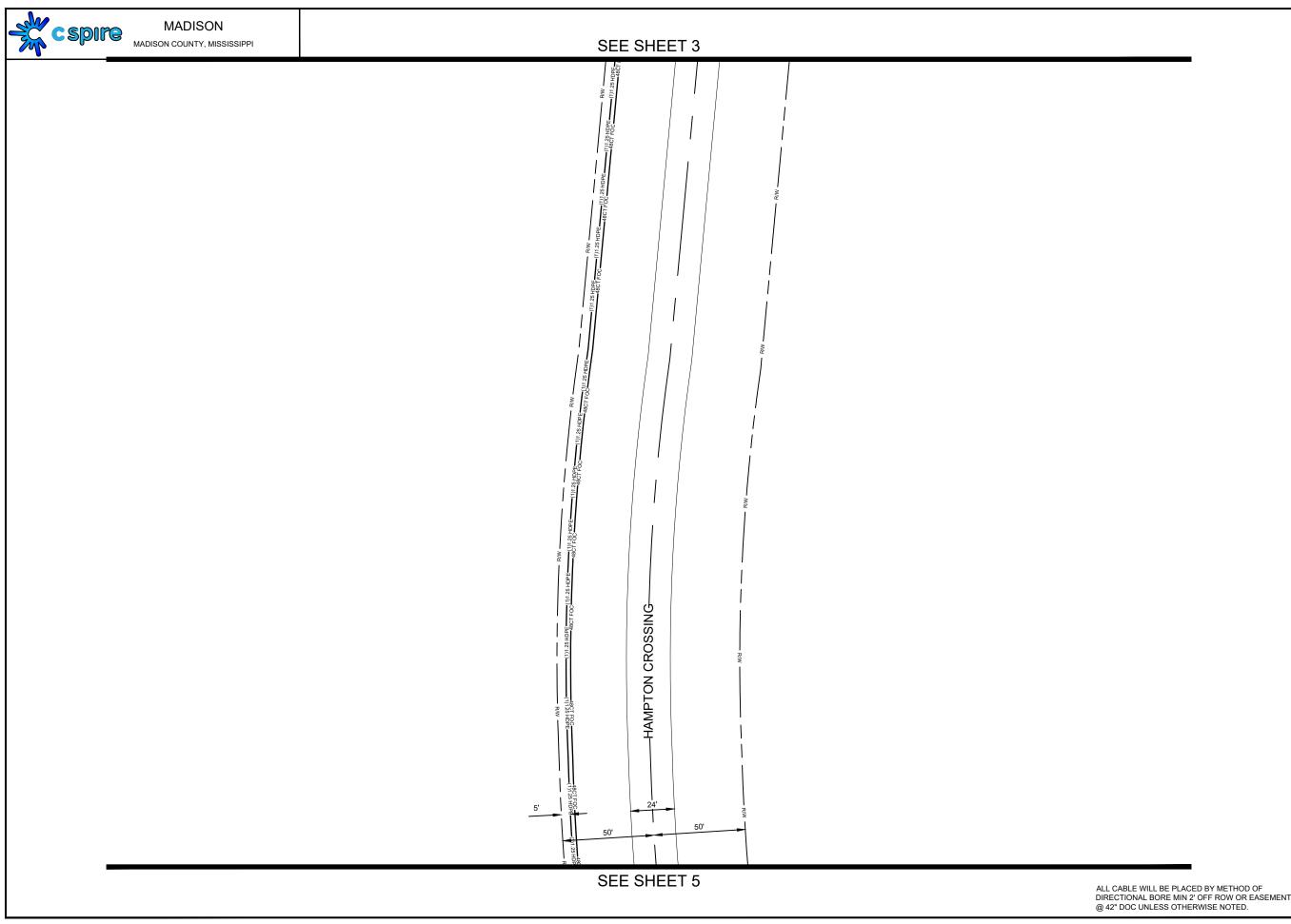






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PROJECT NAME
EMERSON WAY OF LAKE CAROLINE
PROJECT CITY
MADISON
SHEET DESCRIPTION
004 CONSTRUCTION
SCALE DRAWN BY
1"=50' DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	
22	UH3	
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	
26	2-1.25" SDR11 HDPE	
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
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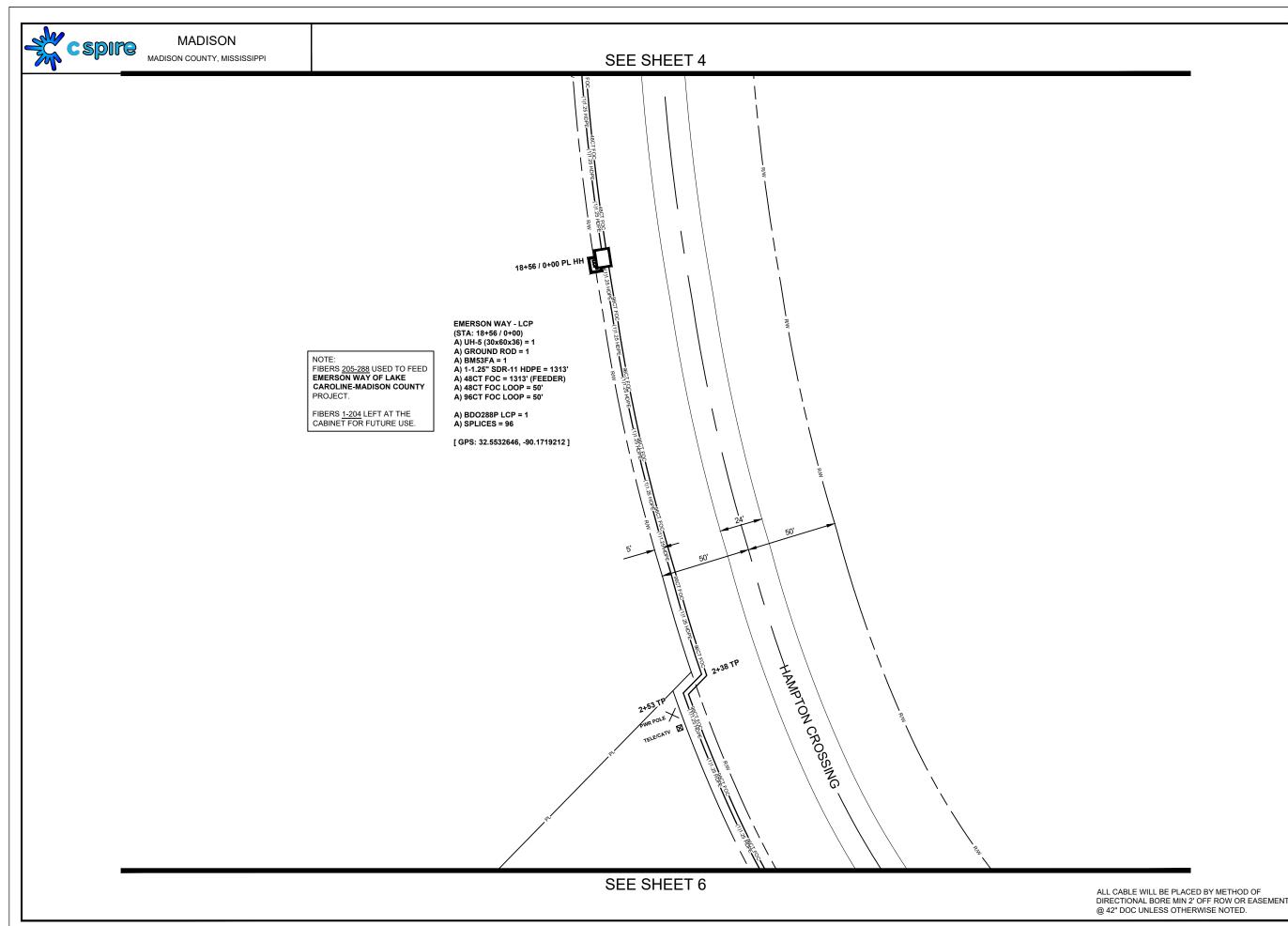
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PROJECT NAME EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON DESCRIPTION SHEET 005 CONSTRUCTION DELTA FIBER 1"=50'

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	1313
8	48 CT FOC LOOP	50
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	50
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	1
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	
22	UH3	
23	UH4	
24	UH5	1
25	1-1.25" SDR11 HDPE	1313
26	2-1.25" SDR11 HDPE	
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	1
32	SPLICES	96
33	BM53FA	1

No.	Revision/Issue	Date

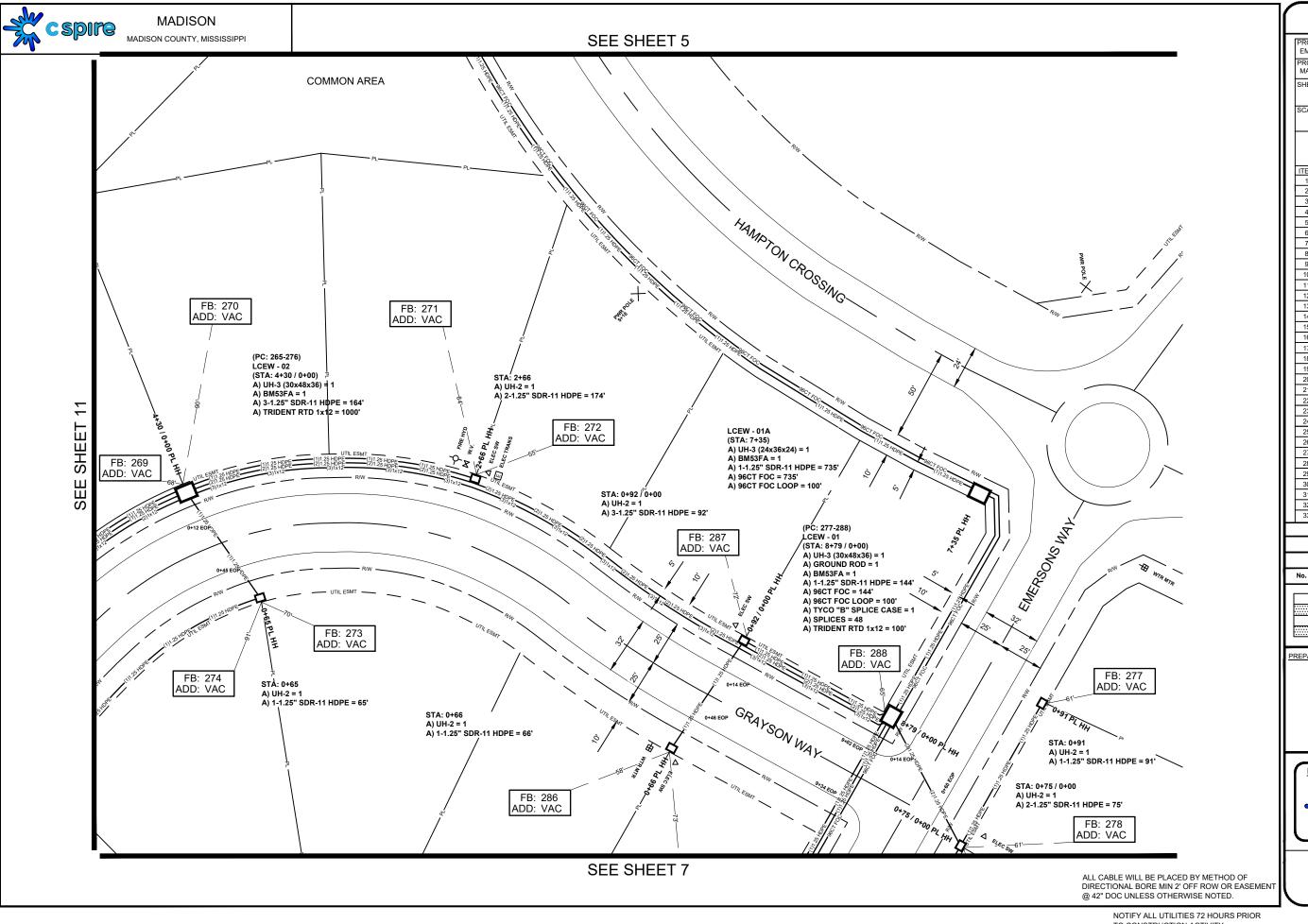
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EMERSON WAY OF	LAKE CAROLINE
PROJECT CITY MADISON	
SHEET	DESCRIPTION
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SCALE	DRAWN BY
1"=50'	DELTA FIBER
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MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	1000
2	TRIDENT RTD 1X12	100
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	144
12	96 CT FOC LOOP	100
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	6
22	UH3	3
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	1176
26	2-1.25" SDR11 HDPE	249
27	3-1.25" SDR11 HDPE	256
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	1
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	1
32	SPLICES	48
33	BM53FA	2

	REVISIONS	
No.	Revision/Issue	Date

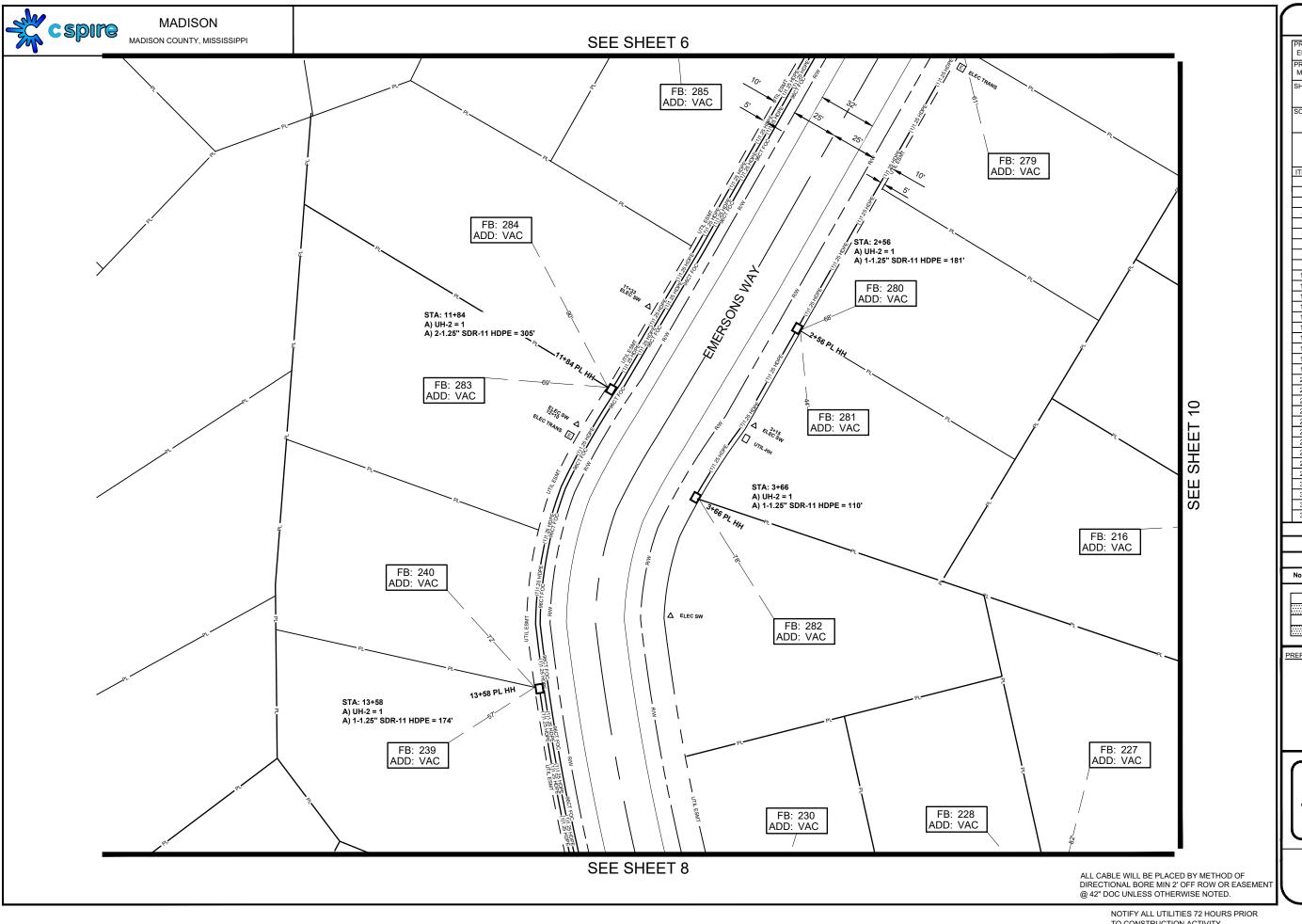
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PROJECT NAME EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON DESCRIPTION SHEET 007 CONSTRUCTION DELTA FIBER 1"=50'

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	4
22	UH3	
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	465
26	2-1.25" SDR11 HDPE	305
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	

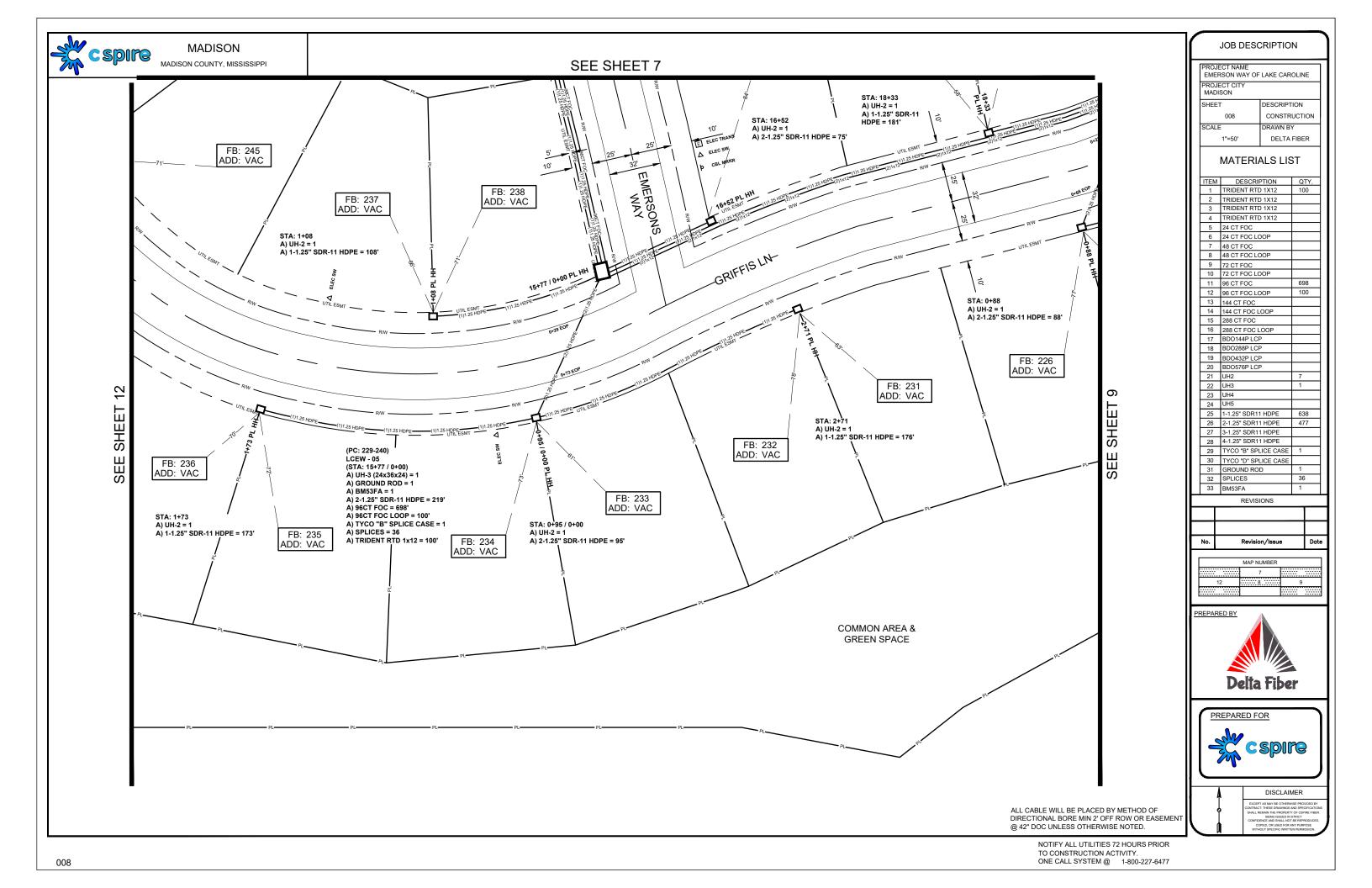
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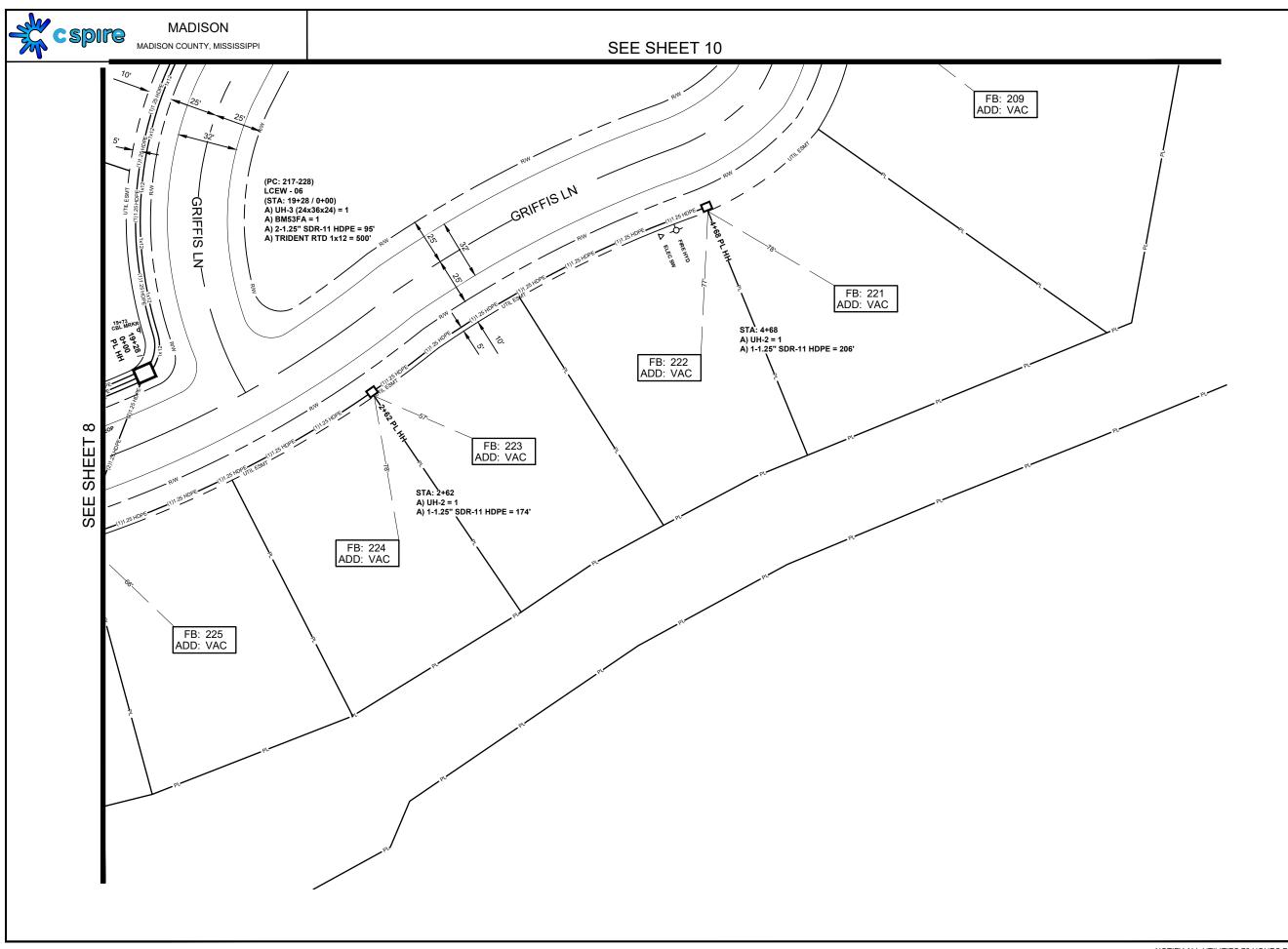
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PROJECT NAME
EMERSON WAY OF LAKE CAROLINE
PROJECT CITY
MADISON
SHEET DESCRIPTION
CONSTRUCTION
SCALE DRAWN BY
1"=50' DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY
1	TRIDENT RTD 1X12	500
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	2
22	UH3	1
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	380
26	2-1.25" SDR11 HDPE	95
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	1

REVISIONS

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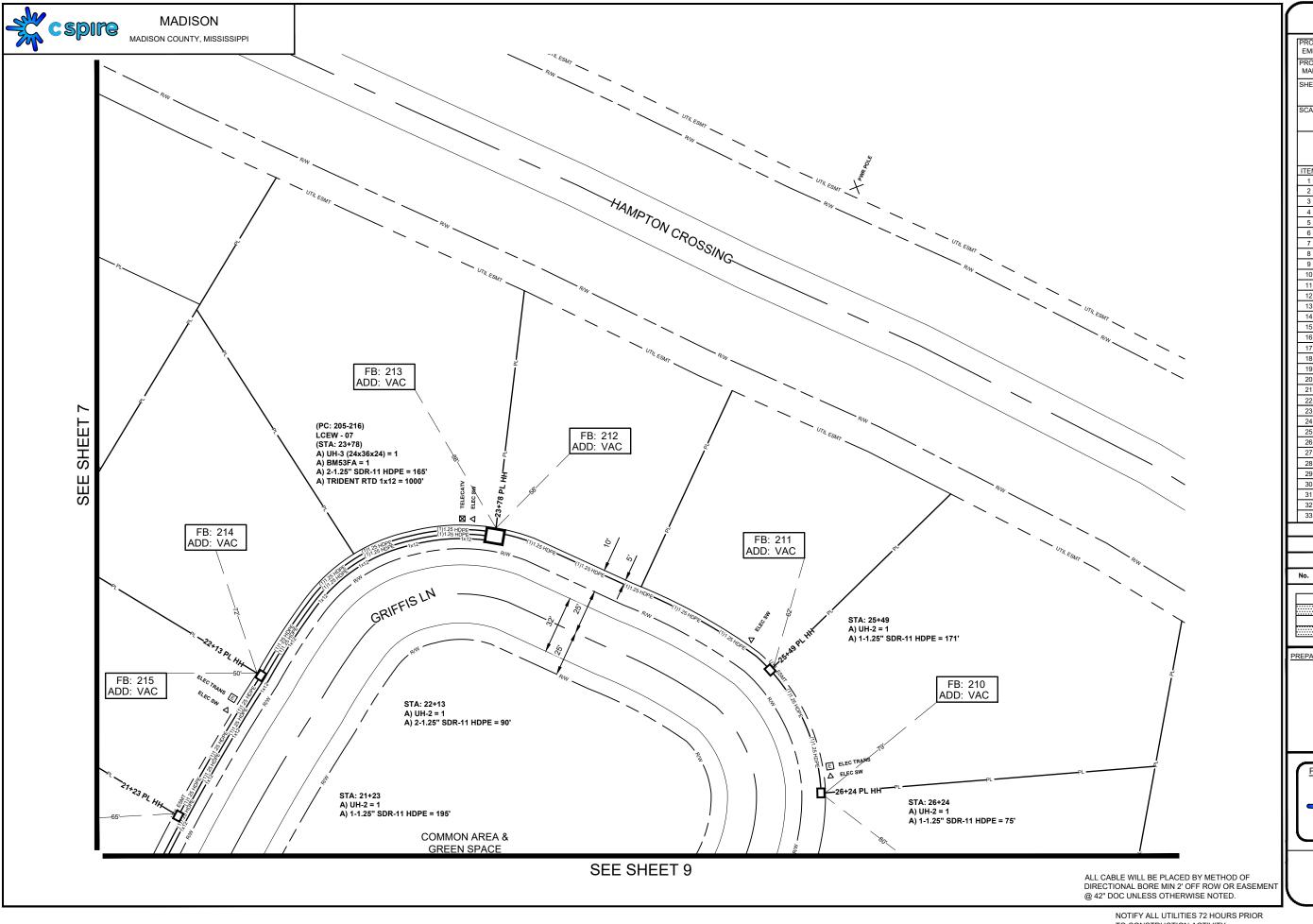
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EMERSON WAY OF LAKE CAROLINE
PROJECT CITY
MADISON
SHEET DESCRIPTION
010 CONSTRUCTION
SCALE DRAWN BY
1"=50' DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	1000
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	4
22	UH3	1
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	441
26	2-1.25" SDR11 HDPE	255
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	

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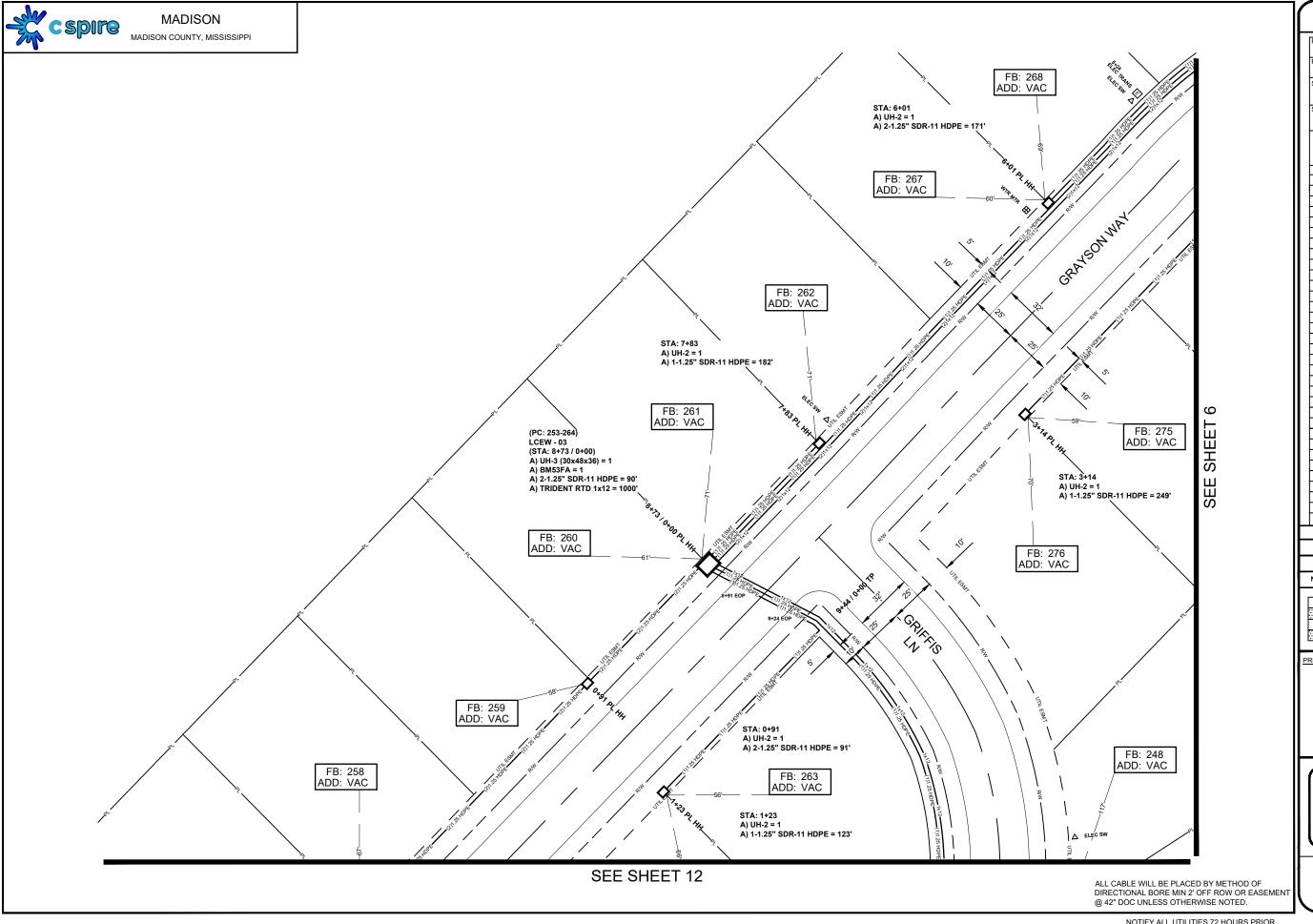
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PROJECT NAME
EMERSON WAY OF LAKE CAROLINE
PROJECT CITY
MADISON

SHEET DESCRIPTION
CONSTRUCTION
SCALE DRAWN BY
1"=50' DELTA FIBER

MATERIALS LIST

ITEM	DESCRIPTION	QTY
1	TRIDENT RTD 1X12	1000
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	5
22	UH3	1
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	554
26	2-1.25" SDR11 HDPE	352
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	1

REVISIONS

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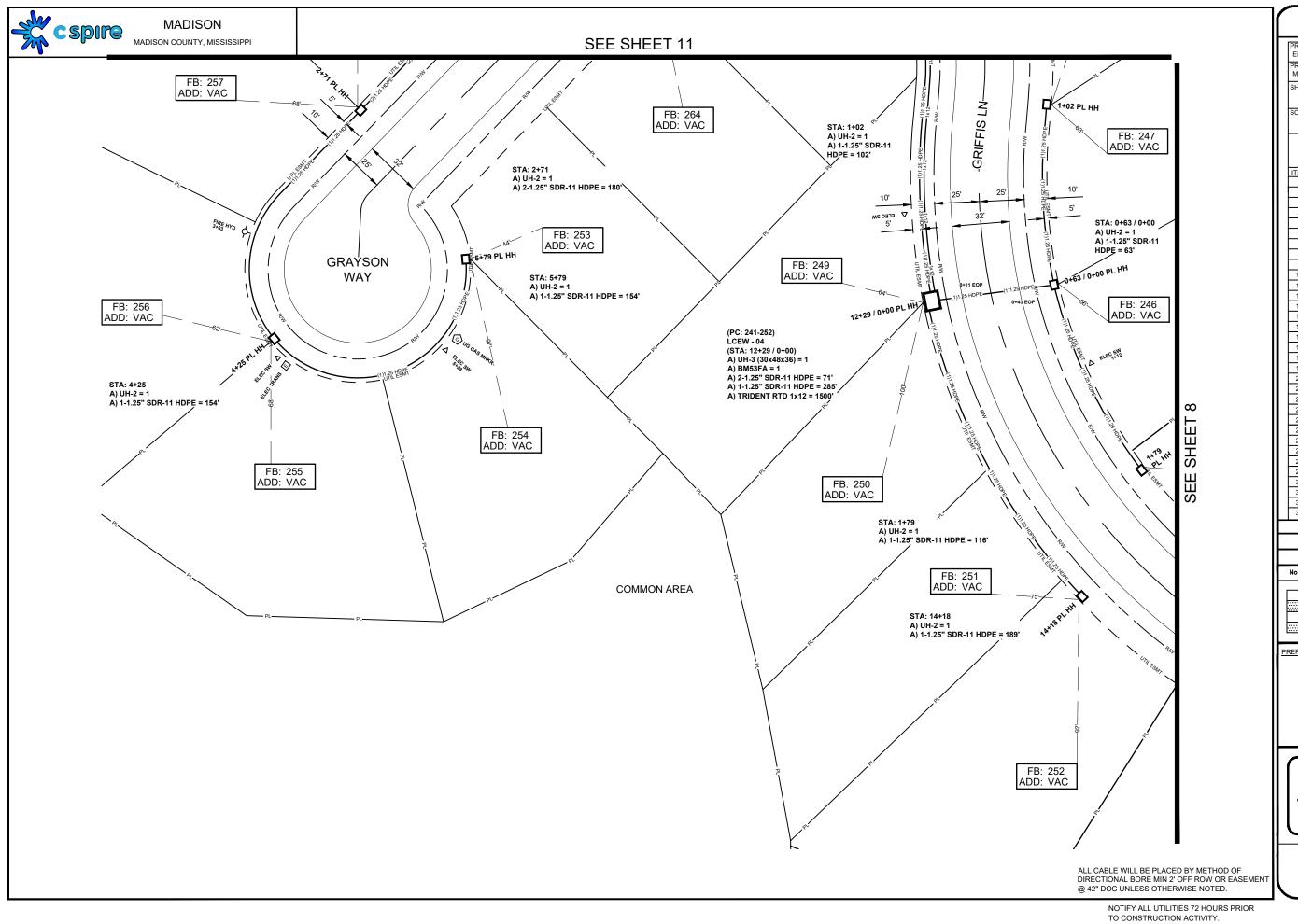
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PROJECT NAME EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON DESCRIPTION SHEET CONSTRUCTION 012 DELTA FIBER 1"=50'

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	1500
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	72 CT FOC	
10	72 CT FOC LOOP	
11	96 CT FOC	
12	96 CT FOC LOOP	
13	144 CT FOC	
14	144 CT FOC LOOP	
15	288 CT FOC	
16	288 CT FOC LOOP	
17	BDO144P LCP	
18	BDO288P LCP	
19	BDO432P LCP	
20	BDO576P LCP	
21	UH2	7
22	UH3	1
23	UH4	
24	UH5	
25	1-1.25" SDR11 HDPE	1063
26	2-1.25" SDR11 HDPE	251
27	3-1.25" SDR11 HDPE	
28	4-1.25" SDR11 HDPE	
29	TYCO "B" SPLICE CASE	
30	TYCO "D" SPLICE CASE	
31	GROUND ROD	
32	SPLICES	
33	BM53FA	1

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No.	Revision/Issue	Date

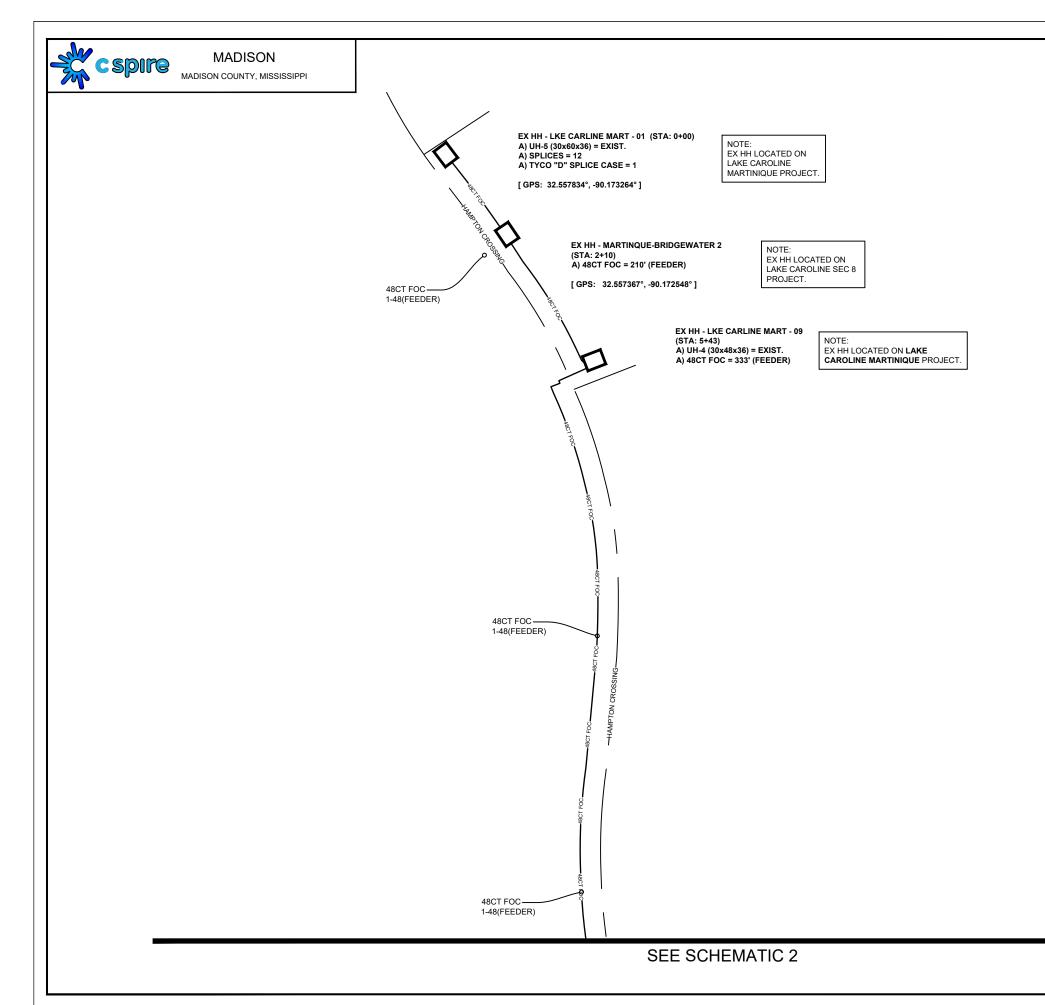
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TO CONSTRUCTION ACTIVITY.
ONE CALL SYSTEM @ 1-800-227-6477



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EMERSON WAY OF LAKE CAROLINE PROJECT CITY MADISON, MS DESCRIPTION CONSTRUCTION DELTA FIBER SCHEMATIC 1 NTS SCHEMATIC 1

MATERIALS LIST

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ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
6	24 CT FOC LOOP	
7	48 CT FOC	
8	48 CT FOC LOOP	
9	96 CT FOC	
10	96 CT FOC LOOP	
11	144 CT FOC	
12	144 CT FOC LOOP	
13	288 CT FOC	
14	288 CT FOC LOOP	
15	BDO288P LCP	
16	UH2	
17	UH3	
18	UH4	
19	UH5	
20	1-1.25" SDR11 HDPE	
21	2-1.25" SDR11 HDPE	
22	3-1.25" SDR11 HDPE	
23	4-1.25" SDR11 HDPE	
24	5-1.25" SDR11 HDPE	
25	6-1.25" SDR11 HDPE	
26	TYCO "B" SPLICE CASE	
27	TYCO "D" SPLICE CASE	
28	GROUND ROD	
29	SPLICES	
30	BM53FA	

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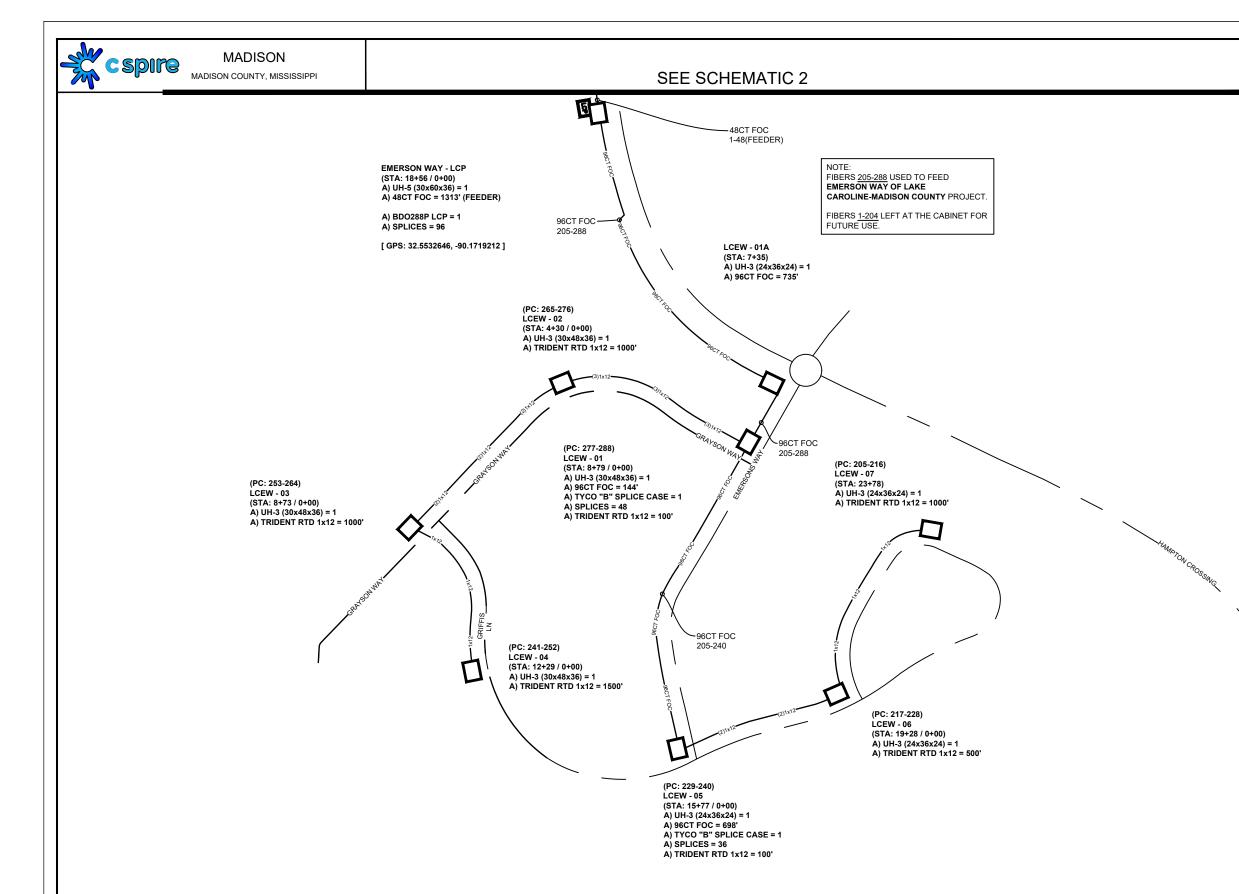
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ALL CABLE WILL BE PLACED BY METHOD OF DIRECTIONAL BORE MIN 2' OFF ROW OR EASEMENT @ 42" DOC UNLESS OTHERWISE NOTED.



PROJECT NAME EMERSON WAY OF	LAKE CAROLINE
PROJECT CITY MADISON, MS	
DATE	DESCRIPTION
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MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	TRIDENT RTD 1X12	QIT.
2	TRIDENT RTD 1X12	
3	TRIDENT RTD 1X12	
4	TRIDENT RTD 1X12	
5	24 CT FOC	
	24 CT FOC LOOP	
7		
	48 CT FOC 48 CT FOC LOOP	
8		
9	96 CT FOC	
10	96 CT FOC LOOP	
11	144 CT FOC	
12	144 CT FOC LOOP	
13	288 CT FOC	
14	288 CT FOC LOOP	
15	BDO288P LCP	
16	UH2	
17	UH3	
18	UH4	
19	UH5	
20	1-1.25" SDR11 HDPE	
21	2-1.25" SDR11 HDPE	
22	3-1.25" SDR11 HDPE	
23	4-1.25" SDR11 HDPE	
24	5-1.25" SDR11 HDPE	
25	6-1.25" SDR11 HDPE	
26	TYCO "B" SPLICE CASE	
27	TYCO "D" SPLICE CASE	
28	GROUND ROD	
29	SPLICES	
30	BM53FA	

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