Department of Engineering Dan Gaillet, P.E., County Engineer

3137 South Liberty Street, Canton, MS 39046 Office (601) 855-5670 FAX (601) 859-5857

MEMORANDUM

September 12, 2018

To: Sheila Jones, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
David Bishop, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Dan Gaillet, P.E. County Engineer

Re: CSpire

Calhoun Station Parkway

The Engineering Department recommends approval of the permit application for Cspire to bore 1,726 feet of fiber along Calhoun Station Parkway between Autobahn Loop (north & south).

MADISON COUNTY, MISSISSIPPI PERMIT APPLICATION FOR USE AND OCCUPANCY FOR THE CONSTRUCTION OR ADJUSTMENT OF A UTILITY WITHIN COUNTY ROAD RIGHT-OF-WAY

RECEIVED

AUG 28 2018

MADISON COUNTY ENGINEERING AND ROAD DEPARTMENT

UTILITY NAME
BY STEVE CASE
PHONE 602.590.3120 ADDRESS 1018 HIGHLAND COLONY PLWY, PLOGELAND
herein called APPLICANT, proposes to construct on CALHOUN PRUIT & AUTOBAHN LOOP
said facility to be installed between roads

Whereas, the Legislature of Mississippi has heretofore granted to the applicant the right to locate its facilities upon, across, under, over and along public highways and streets within the State of Mississippi; Applicant agrees to comply with applicable provisions of S.O.P. No. SAD II-2-8, Policy for the Accommodation of Utility Facilities within the Rights-of-Way of County Federal Aid and State Aid Highways (hereinafter referred to as the "Policy"), promulgated by the State Aid Engineer and dated January 1, 1983, and which is hereby made a part of this application Agreement, and agrees to perform the construction according to the applicable industry code and according to the plans and specifications for the Project.

The Applicant 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", as adopted on May 1, 1992, by the Madison County Board of Supervisors.

The Applicant is 100% liable for verifying the location of County right-of-way and for locating permitted utilities within its limits. The Applicant is responsible for verifying the location of all storm drainage structures before boring.

The Applicant shall be responsible for the future maintenance and repair of the facilities. The Applicant shall make future adjustments in, 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 the 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 understands that any damages caused by routine maintenance and construction by county forces shall be borne by the applicant Utility.

A general description of the size, type, nature, and extent of the Utility work to be done is as follows:

BORE FIBEROFTIC CABLE ALONG THE EAST SIDE OF CALHOUN PLWG LOCATED IN BACK SFT OF COUNTY ROW. MIN DEPTH 48"

The Applicant is responsible for insuring that all utilities in the aforementioned description of work be laid at a minimum depth of 48".

The applicant 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 and if this Utility Facility as 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 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.

The applicant further agrees to indemnify and hold 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.

Madison County agrees to the following stipulations:

- (1) To cooperate with the Utility Company in every way to avoid conflicts in the location, construction, and maintenance of the County Highway and Utility Facility.
- (2) To pursue any and all legal means to see the Policy Standards, except to the extent of any variance shown on the plans filed herewith and approved, are complied with in the facility installation.
- (3) If the County Engineer or his authorized representative approved the drawing, sketches, and plans submitted by the Applicant, he shall so indicate by signing and dating the Permit Approval at the end of this application; and the Applicant may proceed with the installation; if the drawings, sketches, and plans are not approved, he shall promptly notify the Applicant, and advise it of the reason or reasons. He will also act as the duly appointed representative of the Board of Supervisors and will give his approval to the completed work as being in compliance with the location and standards shown in the Policy and in the Agreement for the installations.
- (4) That all joint highway construction and utility adjustment or relocation operations will comply with the requirements of Section S-105.06 and Section S-107-18, Mississippi Standard Specifications for State Aid Road and Bridge Construction, 1989 edition (or current edition).
- (5) Should any term of provision of this Applicant Agreement conflict with the law of the State of Mississippi, the Mississippi Constitution, or the United States Constitution, or impair or deny to the Applicant or the County any right protected thereby, it shall be deemed amended to conform to said law or Constitution.

WITNESS the signature of the Applicant this the 28 day of Avery, 2018
By: State Cor- (Applicant Signature) Title: Contracts of Permits
Dan Gaillet, P.E. Madison County Engineer
AGREED TO AND APPROVED BY:
Madison County Board President Date:
ENTERED INTO THE MINUTES OF THE BOARD OF SUPERVISORS OF MADISON COUNTY

MISSISSIPPI ON THIS _____ DAY OF _____, ____



ASBUILT INFORMATION

FIELD ENGINEER:

NAME: CHRIS DONALD

PROJECT MANAGER:

NAME:

CONSTRUCTION:

NAME:

SUB CONTRACTOR:

NAME:

INSPECTOR:

NAME:

PHONE#:

CONSTRUCTION COMMENCED: DATE:

CONSTRUCTION COMPLETED:

DATE: DATE:

FIBER INSTALLED:

FINAL CLEANUP:

DATE:





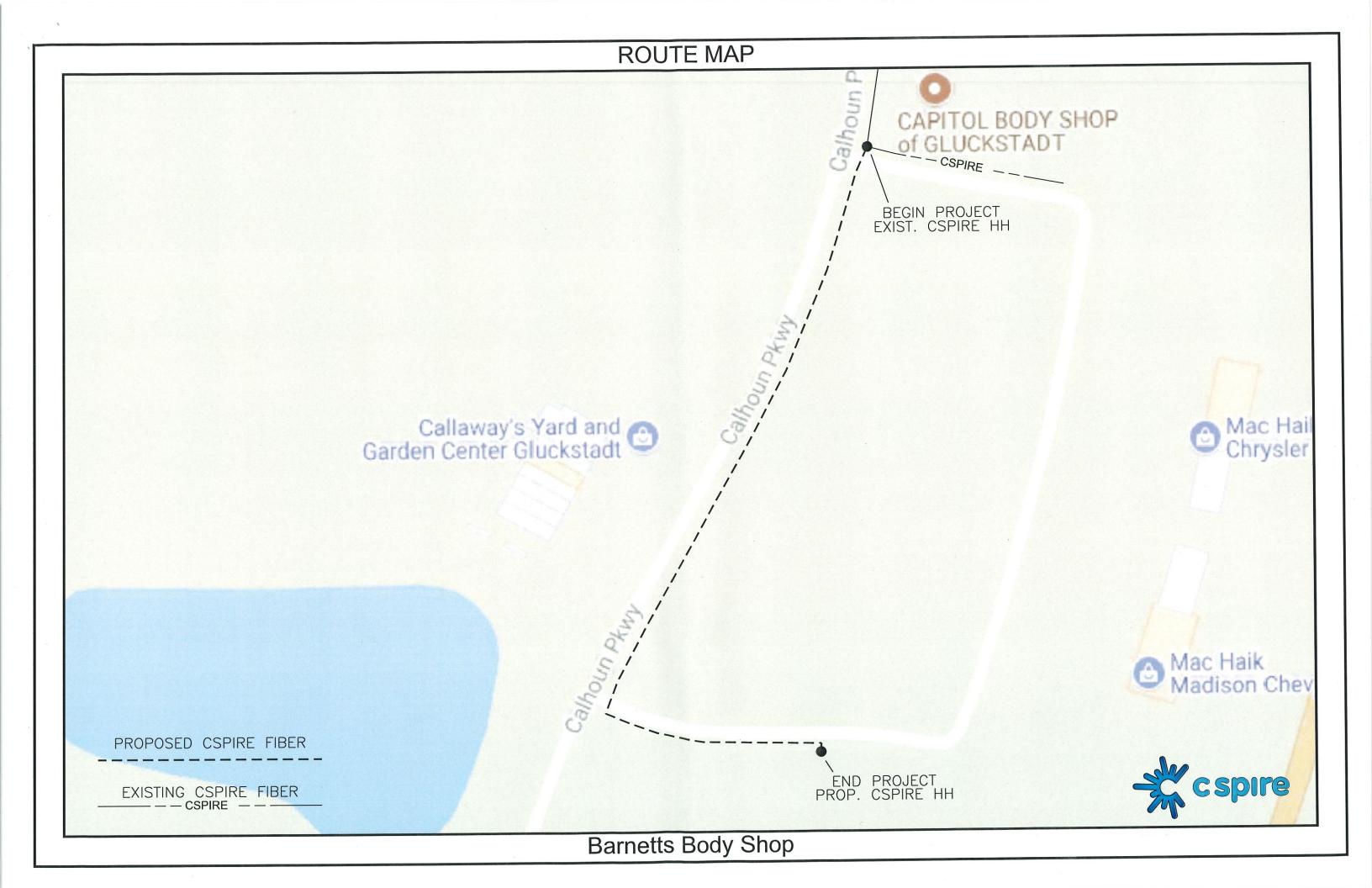
PERMITS >> GLUCKSTADT CRY:

NVSWO.OSP.27116 CSF.OSFPMS-MADCTY.MS

PROPOSED FIBER BUILD **Barnetts Body Shop** 8-27-18



1018 HIGHLAND COLONY PARKWAY **SUITE 340 RIDGELAND, MISSISSIPPI 39157** 1-800-342-3716



CONSTRUCTION NOTES:

- 1. ALL CONDUIT WILL BE 4" ID SCHEDULE 40 (ie. PVC OR BSP/GSP, MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP), UNLESS SPECIFIED OTHERWISE.
- 2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. CALL ONE CALL SYSTEM @ 1-800-227-6477.
- 3. ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
- 4. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
- 5. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 60" MINIMUM COVER CROSSING ALL STATE AND OR COUNTY ROADS AND ALL CREEK BEDS UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- 6. MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- 7. ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 38.2" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENT, UNLESS SPECIFIED
- 8. OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION.
- 9. ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
- 10. RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 48 HOURS NOTICE PRIOR TO CONSTRUCTION
- 11. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 24" MINIMUM BELOW THE LOWEST POINT OF EXISTING CITY LITHITY BEING CROSSED.
- 12. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 48" MINIMUM BELOW ALL CITY & OR SURFACE STREET(S) WHERE NO UTILITY IS CROSSED.
- 13. CONSTRUCTION CONTRACTOR SHALL PLACE MARKER POLES AT ALL H.H. LOCATIONS & AT EVERY MAJOR P.I. CONTRACTOR WILL PLACE MARKER POLES DURING THE CONSTRUCTION PHASE.

GENERAL NOTES:

- 1. ALL WORK TO BE DONE WITH EXTREME CAUTION, FIBER OPTIC CABLE CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF
- 2. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, TELEPAK, OR THE RIGHT-OF-WAY GRANTOR.
- 3. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- 4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICTS.
- 5. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, IF DAMAGED.
- 6. ANY AND ALL IMPROVEMENTS, SUCH AS, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- 7. EQUIPMENT TYPES SPECIFIED HEREIN (ie: "BACKHOE, "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXCEPTIONS.

TRAFFIC CONTROL NOTES:

ALL WORK SHALL COMPLY WITH THE UNIFORM TRAFFIC CONTROL MANUAL. (1998 EDITION OF MUTCD, REVISION 3) OR NEWER VERSIONS OF THIS MANUAL.

CLARIFICATION NOTES:

NOTE: CALLOUTS WILL BE PLACED ON EACH DRAWING INDICATING FOLLOWING:

MATERIAL AMOUNT **DEPTH IF BURIED**

SIZE OF FIBER

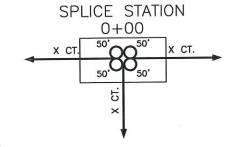
SIZE OF HDPE D.

SIZE OF STRAND

CABLE ID

DIRECTIONAL BORE 0 48" MINIMUM DEPTH (0) 1.25"HDPE PULL CABLE 0 (0) 0 CT. F.O.C.

0+000 'SLACK COIL PLACE UH-4 HANDHOLE PLACE OF O CT F.O.C. E/W (1)144 CT F.O.C. PLACE 0 ' SLACK



DEFINITION NOMENCLATURE

PLACEMENT OF EIGHT FOOT GROUND ROD OUTSIDE OF HAND HOLE 1. BM2-8: SIX INCHES BELOW GROUND LEVEL WITH PLACEMENT OF GROUND WIRE WITHE CONNECTOR.

PLACEMENT OF PLASTIC MARKER POLE, MINIMUM OF 30" IN GROUND 2. BM53F: AS INDICATED BY DRAWINGS.

PLACEMENT OF LOCATE MARKER POST AND PLACEMENT OF WIRE INSIDE BM53F(A): OF POST FROM GROUND ROD AND SPLICE CLOSURE TO BE TERMINATED IN POST FOR LOCATION OF FACILITIES AS INDICATED ON DRAWINGS.

RESTORATION OF ASPHALT PER SQ. FT. AS REQUIRED BY COMPANY REP. 4. BM72:

RESTORATION OF CONCRETE PER SQ. FT. AS REQUIRED BY COMPANY REP. 5. BM73: PLACEMENT OF 144 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN 6. UO-144: HAND HOLES AS INDICATED ON DRAWINGS. PRICE PER PLACEMENT IS ON

'PER FOOT' BASIS.

PLACEMENT OF 24 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN 7. UO-24: HAND HOLES AS INDICATED ON DRAWINGS. PRICE FOR PLACEMENT IS ON

A 'PER FOOT' BASIS.

SYMBOL







NONE

NONE

NONE

NONE

REV. DESCRIPTION INITIALS DATE MATERIAL LIST ITEM DESCRIPTION 1 TOTAL CABLE FT. 0' 2 DIR-BORE CABLE 0' 3 PULL CABLE BURIED SLACK 5 1.25" HDPE 5" HDPE CASING 0' HANDHOLES MANHOLES 0 9 SPLICE CLOSURE 0 10 H-POSTS 11 GROUND RODS 12 AERIAL CABLE 13 RISERS 14 PREPARED BY

PREPARED FOR

MAP NUMBER

DISCLAIMER

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT: THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER.

BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE METITAL REPROSEMENT OF THE PROPERTY OF THE PROPE

WITHOUT SPECIFIC WRITTEN PERMISSION.

FILE NAME T-01

PROJECT CITY -

FULL FILENAME

SHEET

SCALE

1"=50

DESCRIPTION

DRAWN BY

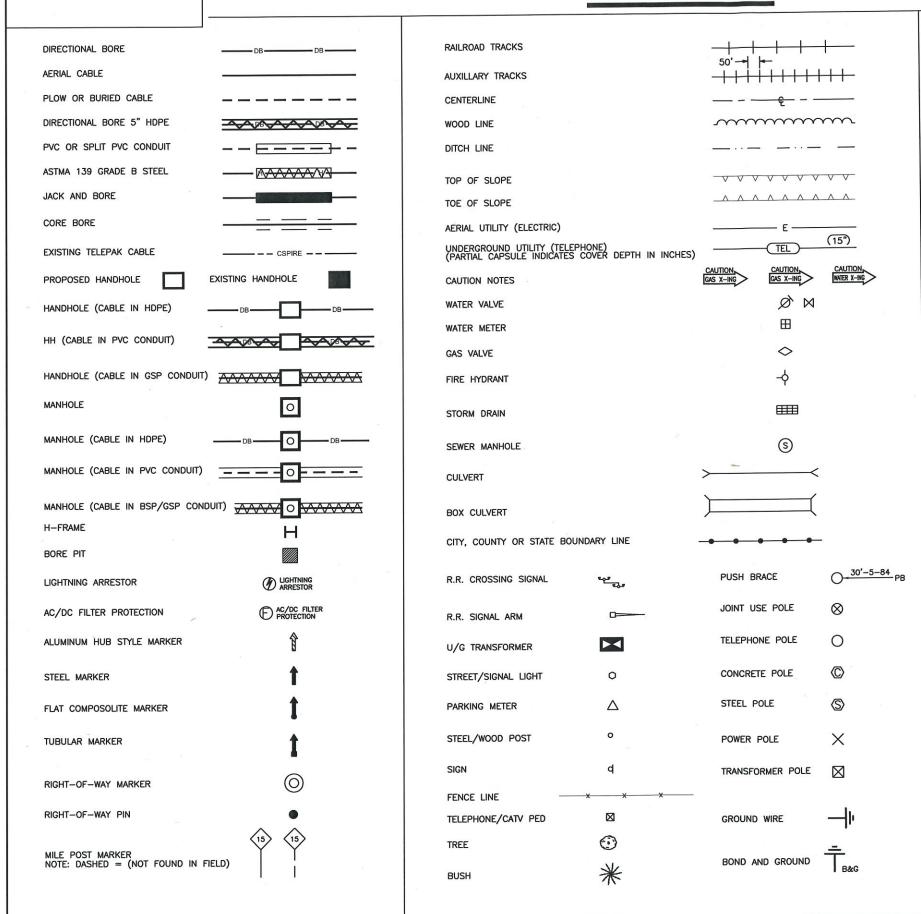
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RFVISIONS

CONSTRUCTION

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY.

SYMBOLS KEY



ANCHOR ONLY (EXISTING)	ANCHOR AND GUY WHOLLY OWNED BY ANOTHER COMPANY
GUY ONLY (EXISTING)	SIDEWALK ANCHOR & GUY
PROPOSED ANCHOR & GUY	PROPOSED SIDEWALK ANC & GUY
ACCOUNT CODE CHANGE (BURIED - AERIA	
OVERHEAD GUY (ARROW IN DIRECTION OF	PULL) 92' 10M OHG
PROPERTY LINE	
EDGE OF PAVEMENT	—EOP———EOP—
BACK OF CURB	—BOC——BOC—
WHITE LINE	—w/L
RIGHT-OF-WAY LINE	
TAX DISTRICT BOUNDARY	
PROBE (DEPTH AS INDACATED)	42)
PERMIT TRACKING FORM IDENTIFIER	P.T.F. \
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POLE ATTACHMENT ABBREVIATIONS

PWR	POWER ATTACHMENT	PWR OHG	POWER OVERHEAD GUY
TRI	TRIPLEX	CATV OHG	CATV OVERHEAD GUY
СОММ	COMMUNICATIONS ATTACHMENT	CAP BANK	CAPACITOR BANK
CATV	CATV ATTACHMENT	CLTCKT	FIRE ALARM CIRCUIT
SL	STREET LIGHT	PWR DIP	POWER DIP
TSIG	TRAFFIC SIGNAL	COMM DIP	COMMUNICATIONS DIP
MDW	MULTI DROP WIRE	CATV DIP	CATV DIP
сомм оно	COMMUNICATIONS OVERHEAD GUY	TEOP	TRAFFIC LIGHT
FL	FLOOD LIGHT	TGUY	TRAFFIC GUY
WH	WEATHER HEAD	MS	MIDSPAN
TRAN	TRANSFORMER	OHG	OVERHEAD GUY
TELEPAK	TELEPAK ATTACHMENT	TOP	TOP OF POLE
SEC	SECONDARY POWER	NEU	NEUTRAL

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 1-800-227-6477



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3	PULL CABLE			0'	
4	BURIED SLA			0'	
5	1.25" HDPE			0'	
6	5" HDPE C		NG	0'	
7	HANDHOLES	_	_	0	
8	MANHOLES		25	0	
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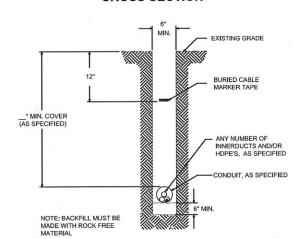




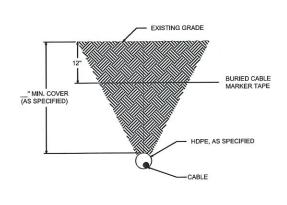
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	DISCLAIMER

PLACEMENT-TYPICALS

TYPICAL DETAIL "A" PLACE CONDUIT CROSS SECTION

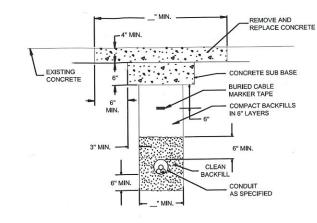


TYPICAL DETAIL "B" PLACE HDPE CROSS SECTION



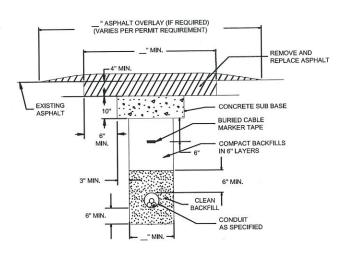
TYPICAL DETAIL "C" CONCRETE / PAVEMENT OPEN CUT

CROSS SECTION



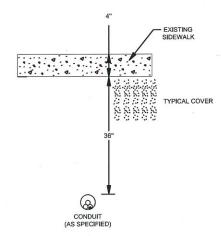
TYPICAL DETAIL "D"

ASPHALT/PAVEMENT OPEN CUT CROSS SECTION

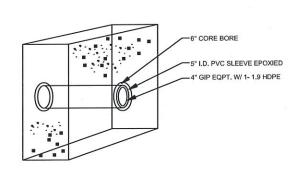


OPEN CUT-TYPICALS

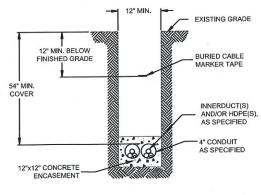
TYPICAL DETAIL "E" BORE CONCRETE SIDEWALK



TYPICAL DETAIL "F" CORE BORE (CONCRETE / BRICK WALL)



TYPICAL DETAIL "G" 12"x12" CONCRETE ENCASEMENT



NOTE: BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.

TYPICAL DETAIL "H"

PLACE (2) 1.25" HDPE IN CONDUIT

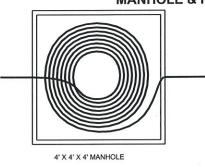


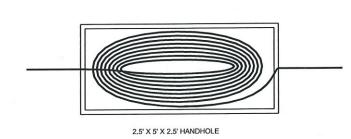
TYPICAL DETAIL "I"

PLACE CABLE IN HDPE

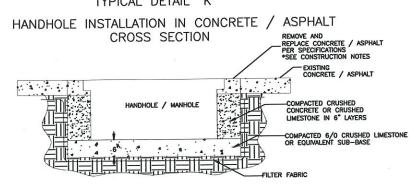


TYPICAL DETAIL "J" MANHOLE & HANDHOLE SLACK COIL DETAIL





TYPICAL DETAIL "K"



NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 1-800-227-6477



FILE NAME T-03

PROJECT CITY -

FULL FILENAME T-03.dwg

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REVISIONS

REV.	DESCRIPTION	INITIALS	DATI
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MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	0,
2	DIR-BORE CABLE	0'
3	PULL CABLE	0,
4	BURIED SLACK	0'
5	1.25" HDPE	0'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	AERIAL CABLE	0,
13	RISERS	0

PREPARED BY

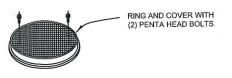


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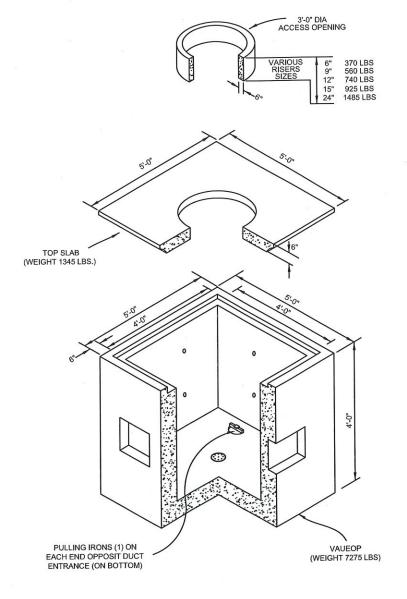
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	DISCLAIMER						

CAPITOL CONCRETE PRODUCTS, INC



FIBER OPTIC/LIGHTGUIDE SPLICE VAUEOP 4'-0"X4'-0"X4'-0"

GRADE 60 REINFORCEMENT 4500 PSI CONCRETE REINFORCEMENT FOR AASHTO M-20 LOADING





FILE NAME T-04

PROJECT CITY -

FULL FILENAME

T-04.dwg

DATE DESCRIPTION CONSTRUCTION
SHEET DRAWN BY

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REVISIONS

REV. DESCRIPTION INITIALS DATE

MATERIAL LIST

PREPARED BY



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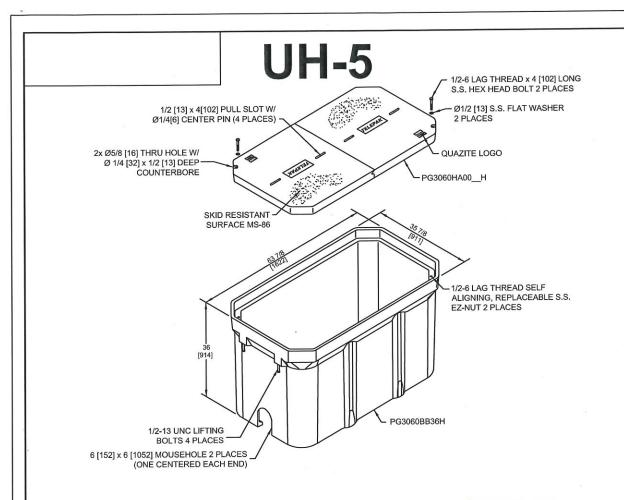


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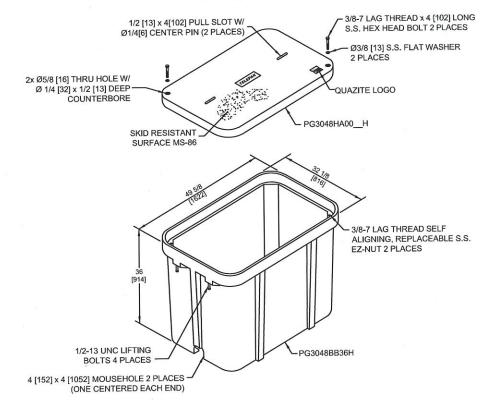
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BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE

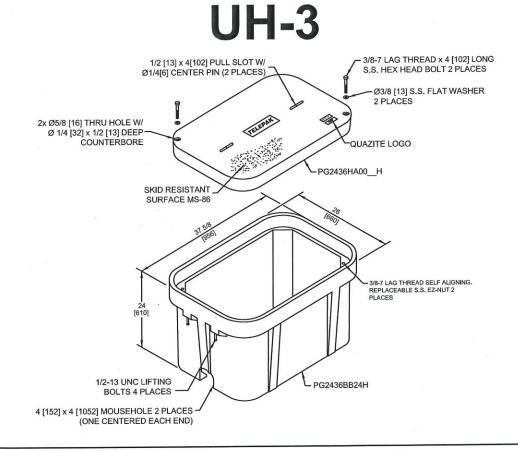
NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 1-800-227-6477

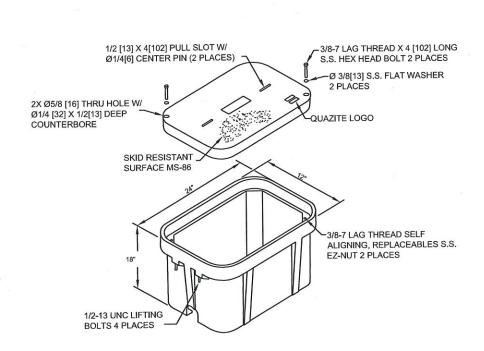


UH-4



UH-2





NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 1-800-227-6477



FILE NAME T-05

PROJECT CITY -

1"=50"

FULL FILENAME

T-05.dwg

DESCRIPTION CONSTRUCTION

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5
SCALE PAGE

REVISIONS

5

REV. DESCRIPTION INITIALS DATE

MATERIAL LIST

ITEM DESCRIPTION QUANTITY 1 TOTAL CABLE FT. 2 DIR-BORE CABLE 0' 3 PULL CABLE 4 BURIED SLACK 0, 0' 5 1.25" HDPE 6 5" HDPE CASING 0' 0 HANDHOLES MANHOLES 9 SPLICE CLOSURE 0 10 H-POSTS 0 11 GROUND RODS

PREPARED BY

0

12 AERIAL CABLE

13 RISERS

14



PREPARED FOR



TYPICAL HAND HOLE INSTALLATION - CRIMPED AND MARKER POLE OR FLUSH MOUNT FINK AT EVERY HANDHOLE LOCATION WITH A MARKER POST, BONDED PLATE IF NEEDED **TOGETHER** MARKER POST WITH -1.25" HDPE SHOULD EXTEND 48" INTO SPARE WIRE WILL GO LOCATE PIGTAIL CENTERED MARKER POST. HDPE SHOULD ALSO UP FIBER TAIL INTO BEHIND HANDHOLE EXTEND 6" ABOVE GRAVEL AT THE THE SPLICE CASE BOTTOM OF THE HANDHOLE. AT EVERY TEST STATION, BURY -GROUND ROD 6" BELOW GROUND AND 6" TO THE LEFT OF MARKER BLACK WIRE BONDED TO 8' GROUND ROD AT TEST STATIONS ONLY PLACE BLUE TAPE NEAR THE TOP OF PIGTAIL INSTALLED IN H/H 8' x 5/8" GROUND ROD 6" \(\text{\sqrt{2}} HDPE TO INDICATE BELOW GROUND AND 6" TO WITH LONG WIRES THE DUCT LEADING (CONNECTORIZED ENDS) THE LEFT OF MARKER POST TO MARKER POST FED UP INTO MAKER POST OUTSIDE OF HANDHOLE AND SHORT WIRE TO

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

GROUND ROD

HANDHOLES ARE TO BE INSTALLED A MINIMUM OF THREE FEET FROM ANY UTILITY OR POWER POLE.

BOXES (Nestable)

DESCRIPTION	PART NO.	WEIGHT	DESIGN/TEST LOAD#
UH-5 30x60x36	PG3060Z501	933# 423KG.	15'000 LBS
UH-4 30x48x36	PG3048Z579	563# 255KG.	15'000 LBS
UH-3 24x36x24	PG2436Z905	284# 129KG.	15'000 LBS

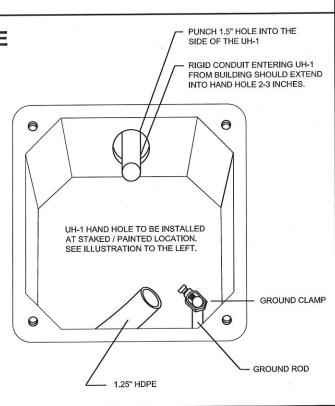
DIMENSIONS ARE IN INCHES OR MILLIMETERS IN BRACKETS UNLESS OTHERWISE NOTED.

- 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 22,500 LBS.
- 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 TIEF 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 ASSEMBLIES.

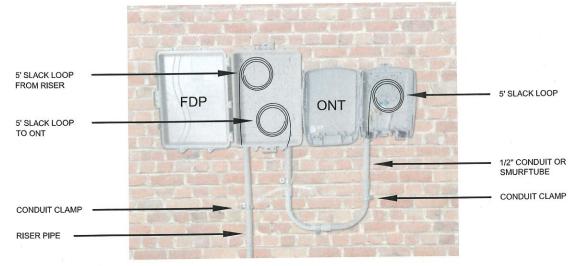
TYPICAL UH-1 / UH-2 HAND HOLE **INSTALLATION PROCEDURES** AT BUILDING ENTRIES



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.

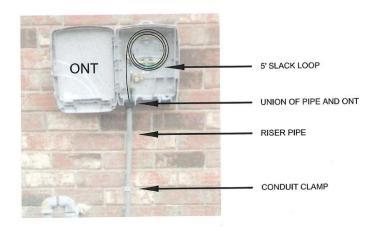


TYPICAL FDP & ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES



- 1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
- 2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION. MOUNT ONT AS CLOSE TO THE POWER METER AS POSSIBLE
- 3. DUCT PLACED BY DIRECTIONAL BORING SHOULD MEET RISER PIPE UNDERGROUND NEAR THE BASE OF THE WALL. A 4" GAP BETWEEN THE DUCT AND THE RISER PIPE IS ACCEPTABLE.
- 4. MOUNT 4' RISER PIPE TO THE WALL USING SHOWN CONDUIT CLAMPS.
- 5. JOIN RISER PIPE TO FDP AT SHOWN LOCATION & MOUNT FDP TO THE WALL
- 6. MOUNT ONT LEAVING ENOUGH SPACE BETWEEN FDP & ONT SO THE COVER MAY OPEN FULLY AS SHOWN
- 7. PLACE 1/2" CONDUIT FROM FDP TO ONT.
- 8. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO FDP LEAVING A 5' SLACK LOOP.
- 9. WITH A SEPARATE 12CT FIBER, LEAVE A 5' SLACK LOOP IN THE FDP AND ENTER THE CONDUIT TO THE ONT.
- 10. LEAVE 5' OF SLACK INSIDE OF THE ONT. ALL SLACK SHOULD BE LOOSELY STORED AND NOT LOOPED TIGHTLY.

TYPICAL ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES



- 1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
- 2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION. MOUNT ONT AS CLOSE TO THE POWER METER AS POSSIBLE
- 3. DUCT PLACED BY DIRECTIONAL BORING SHOULD MEET THE RISER PIPE UNDERGROUND NEAR THE BASE OF THE WALL. A 4" GAP BETWEEN THE DUCT AND THE RISER PIPE IS
- 4. MOUNT 4' RISER PIPE TO THE WALL USING SHOWN CONDUIT CLAMPS.
- 5. JOIN RISER PIPE TO ONT AT SHOWN LOCATION & MOUNT ONT TO THE WALL.
- 6. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO ONT.
- 7. LEAVE 5' OF SLACK INSIDE OF THE ONT. SLACK SHOULD BE LOOSELY STORED AND NOT LOOPED TIGHTLY.

NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY ONE CALL SYSTEM @ 1-800-227-6477



FILE NAME T-06

PROJECT CITY -FULL FILENAME

DESCRIPTION DATE CONSTRUCTION 03-10-16 SHEET DRAWN BY J.BUSBY PAGE SCALE 1"=50

	REVISION 1	SNC	
REV.	DESCRIPTION	INITIALS	DATE
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	MATERIAL	115	Т

MAIERIAL LIST ITEM DESCRIPTION QUANTITY

TOTAL CABLE FT. 2 DIR-BORE CABLE 0' 3 PULL CABLE 4 BURIED SLACK 1.25" HDPE 6 5" HDPE CASING 0' 0 HANDHOLES 8 MANHOLES SPLICE CLOSURE 10 H-POSTS 0 11 GROUND RODS 0 12 AERIAL CABLE 0' 13 RISERS

PREPARED BY

14

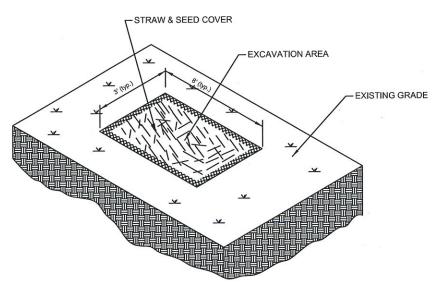


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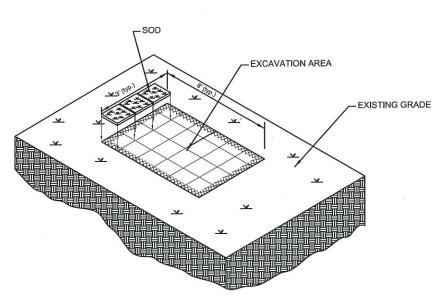
MAP NUMBER 6. DISCLAIMER

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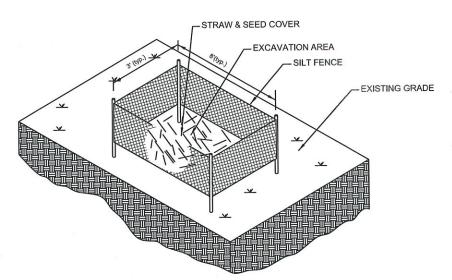
TYPICAL EROSION DETAIL #1 NOTE TO CONSTRUCTION:

WHERE APPLICABLE RE-COMPACT SOIL AROUND HANDHOLES AND BOREPITS USE HAY AND SEED COVER FOR EROSION CONTROL.



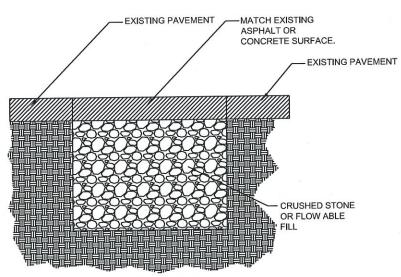
TYPICAL EROSION DETAIL #3 NOTE TO CONSTRUCTION:

FOR EROSION CONTROL IN WELL MANICURED AREAS RE-COMPACT SOIL AROUND HANDHOLES AND BOREPITS. RE-SOD TO MATCH EXISTING GROUND COVER.



TYPICAL EROSION DETAIL #2 NOTE TO CONSTRUCTION:

FOR HIGHER DEGREE OF SLOPE RE-COMPACT SOIL AROUND HANDHOLES AND BOREPITS. USE HAY,SEED AND SILT FENCES FOR EROSION CONTROL.



TYPICAL PAVEMENT REPAIR

DETAIL #4 NOTE TO CONSTRUCTION:

RE-COMPACT EFFECTED AREAS WITH CRUSHED STONE OR FLOW ABLE FILL. MATCH EXISTING PAVEMENT SURFACE.



FILE NAME T-07

PROJECT CITY -

SCALE 1"=50'

FULL FILENAME

T-07.dwg

DATE DESCRIPTION CONSTRUCTION
SHEET DRAWN BY

PAGE

REVISIONS

REV. DESCRIPTION INITIALS DATE

MATERIAL LIST

ITEM DESCRIPTION QUANTITY 1 TOTAL CABLE FT. 0' 2 DIR-BORE CABLE 3 PULL CABLE 4 BURIED SLACK 5 1.25" HDPE 6 5" HDPE CASING 0' 7 HANDHOLES 8 MANHOLES 0 9 SPLICE CLOSURE 10 H-POSTS 0 11 GROUND RODS 0 12 AERIAL CABLE 0, 13 RISERS

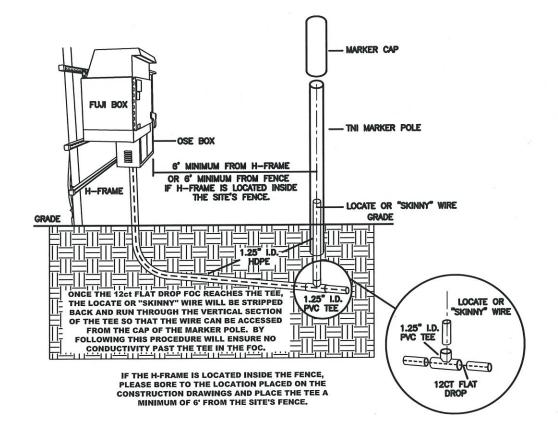
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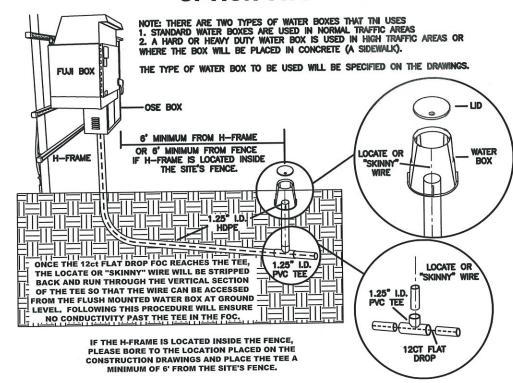
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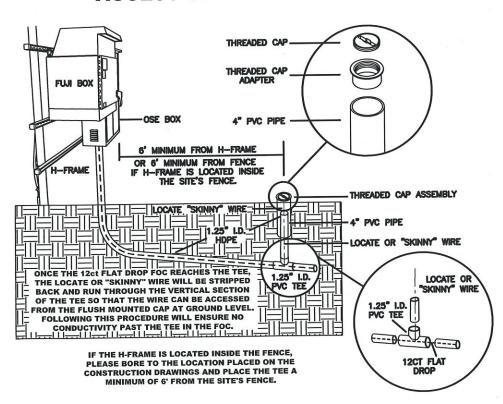
DIELECTRIC TEST STATION (DTS) TYPICALS



FLUSH MOUNTED WATER BOX INSTALLATION OPTION TWO



THREADED PVC FLUSH MOUNTED ACCESS CAP OPTION THREE



NOTIFY ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION ACTIVITY. ONE CALL SYSTEM @ 1-800-227-6477



FILE NAME T-08

PROJECT CITY -

FULL FILENAME

T-08.dwg

DATE DESCRIPTION CONSTRUCTION

SHEET DRAWN BY

SCALE PAGE

1"=50' 8

REVISIONS

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			-

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	0'
2	DIR-BORE CABLE	0'
3	PULL CABLE	0,
4	BURIED SLACK	0'
5	1.25" HDPE	0'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	0
10	H-POSTS	0
11	GROUND RODS	0
12	AERIAL CABLE	0'
13	DICEDO	0

PREPARED BY



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PREPARED FOR



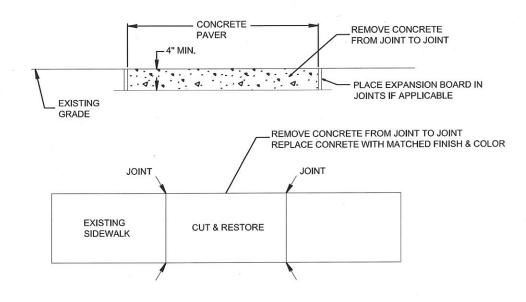
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SIDEWALK CUT & RESTORE TYPICAL DETAIL

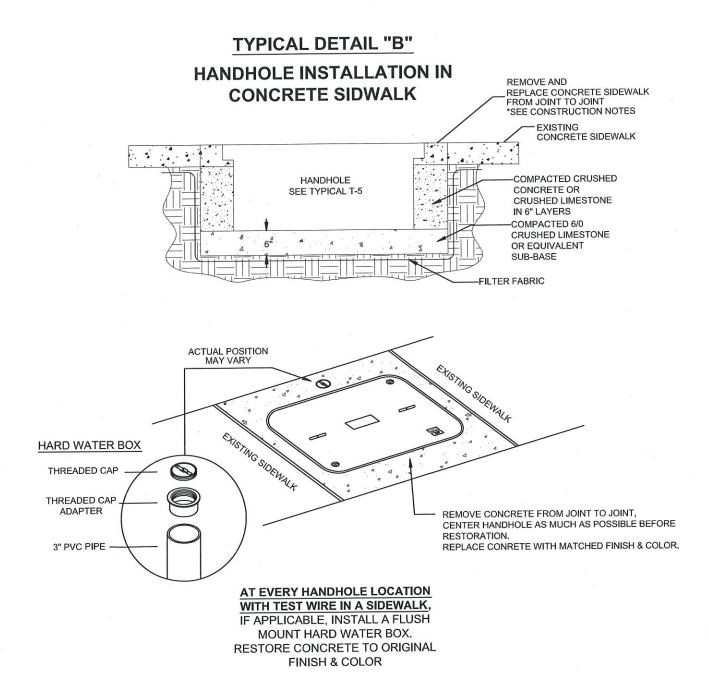
SIDEWALK MUST BE ADA COMPLIANT WHERE APPLICABLE

TYPICAL DETAIL "A" CONCRETE CUT & RESTORE REPLACEMENT



CONSTRUCTION NOTES:

- PROVIDE BARRIERS AND TRAFFIC CONTROL PER MUTCD REV.3 OR NEWER.
 CUT & RESTORE AREAS SHALL BE RETURNED TO ORIGINAL, OR BETTER CONDITION.
- 3. SIDEWALKS THAT HAVE EXPANSION BOARD IN USE IN ADJACENT AREAS SHALL BE RESTORED WITH EXPANSION BOARD.
- 4. EXPOSED AGGREGATE FINISHED SIDEWALKS SHALL BE RESTORED WITH SAME FINISH.
- 5. ENSURE FINISH IS SLIP RESISTANT.
- 6. BRICK SIDEWALKS SHALL BE RESTORED TO THE SAME FINISH.
- 7. ENSURE FLUSH MOUNT TEST STATIONS DO NOT PRESENT A TRIP HAZARD.
- 8. COVER CONCRETE FOR A MINIMUM OF 12 HOURS PRIOR TO REMOVING PEDESTRIAN BARRIERS.
- 9. RESTORATION AREA MUST BE RESTORED TO AN OPERATIONAL SIDEWALK PRIOR TO CLOSING ANY CONSTRUCTION PERMITS.





FILE NAME T-09

PROJECT CITY FULL FILENAME

9

SCALE 1"=50'

T-09.dwg

DATE DESCRIPTION CONSTRUCTION
SHEET DRAWN BY

REVISIONS

PAGE

REV. DESCRIPTION INITIALS DATE

MATERIAL LIST

ITEM DESCRIPTION QUANTITY 1 TOTAL CABLE FT. 0' 2 DIR-BORE CABLE PULL CABLE BURIED SLACK 1.25" HDPE 6 5" HDPE CASING HANDHOLES 0 MANHOLES SPLICE CLOSURE 0 10 H-POSTS GROUND RODS 0' 12 AERIAL CABLE 13 RISERS

PREPARED BY

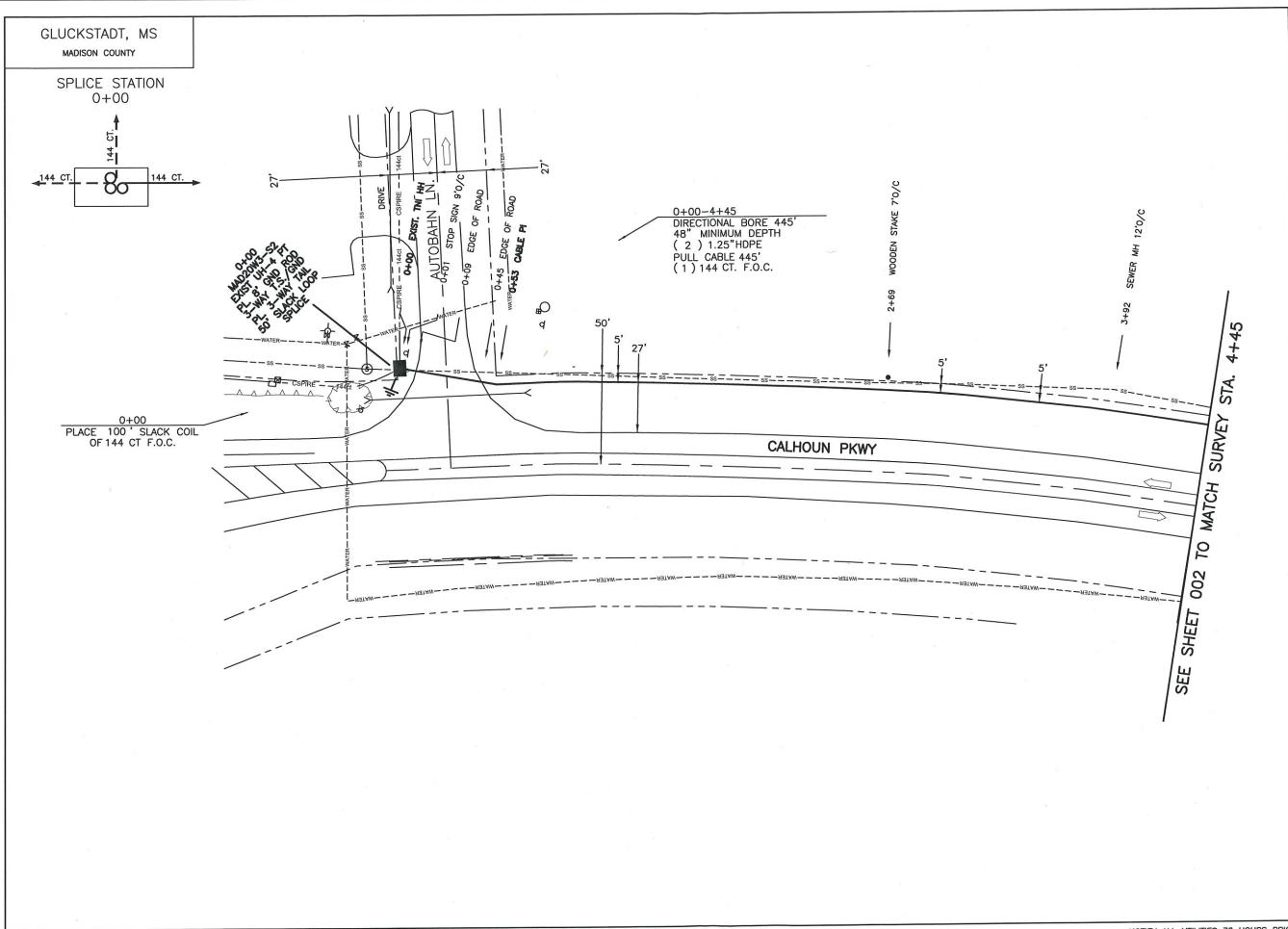
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LE NAME BBS-001

PROJECT CITY - GLUCKSTADT, MS

FULL FILENAME

BBS-001.dwg

DATE	DESCRIPTION
08-27-18	CONSTRUCTION
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001	S.WALKER
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1"=50′	001

REVISIONS

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MATERIAL LIST

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ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	545'
2	DIR-BORE CABLE	445'
3	PULL CABLE	0'
4	BURIED SLACK	100'
5	1.25" HDPE	890'
6	5" HDPE CASING	0'
7	HANDHOLES	0
8	MANHOLES	0
9	SPLICE CLOSURE	1
10	H-POSTS	0
11	GROUND RODS	1
12	AERIAL CABLE	0,
13	RISERS	0

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GLUCKSTADT, MS MADISON COUNTY 6+71 PLACE UH-4 HANDHOLE E/W (1)144 CT F.O.C. PLACE 100' SLACK 4+45 9+82 32' STA. SURVEY SURVEY MATCH CALHOUN PKWY MATCH 2 2 001 003 SHEET SHEET SEE SEE 4+45-9+82 DIRECTIONAL BORE 537'
48" MINIMUM DEPTH (2) 1.25"HDPE PULL CABLE 537'
(1) 144 CT. F.O.C.



FILE NAME BBS-002

PROJECT CITY - GLUCKSTADT, MS

FULL FILENAME

BBS-002.dwg

DATE DESCRIPTION CONSTRUCTION

SHEET DRAWN BY S.WALKER

SCALE PAGE

1"=50' 002

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		DESCRIPTION INITIALS MATERIAL LIS

ITEM DESCRIPTION QUANTITY 1 TOTAL CABLE FT. 637' 2 DIR—BORE CABLE 537' 3 PULL CABLE 100' 4 BURIED SLACK 5 1.25" HDPE 1074 6 5" HDPE CASING 0' 7 HANDHOLES 8 MANHOLES 9 SPLICE CLOSURE 0 10 H-POSTS 0 11 GROUND RODS 0

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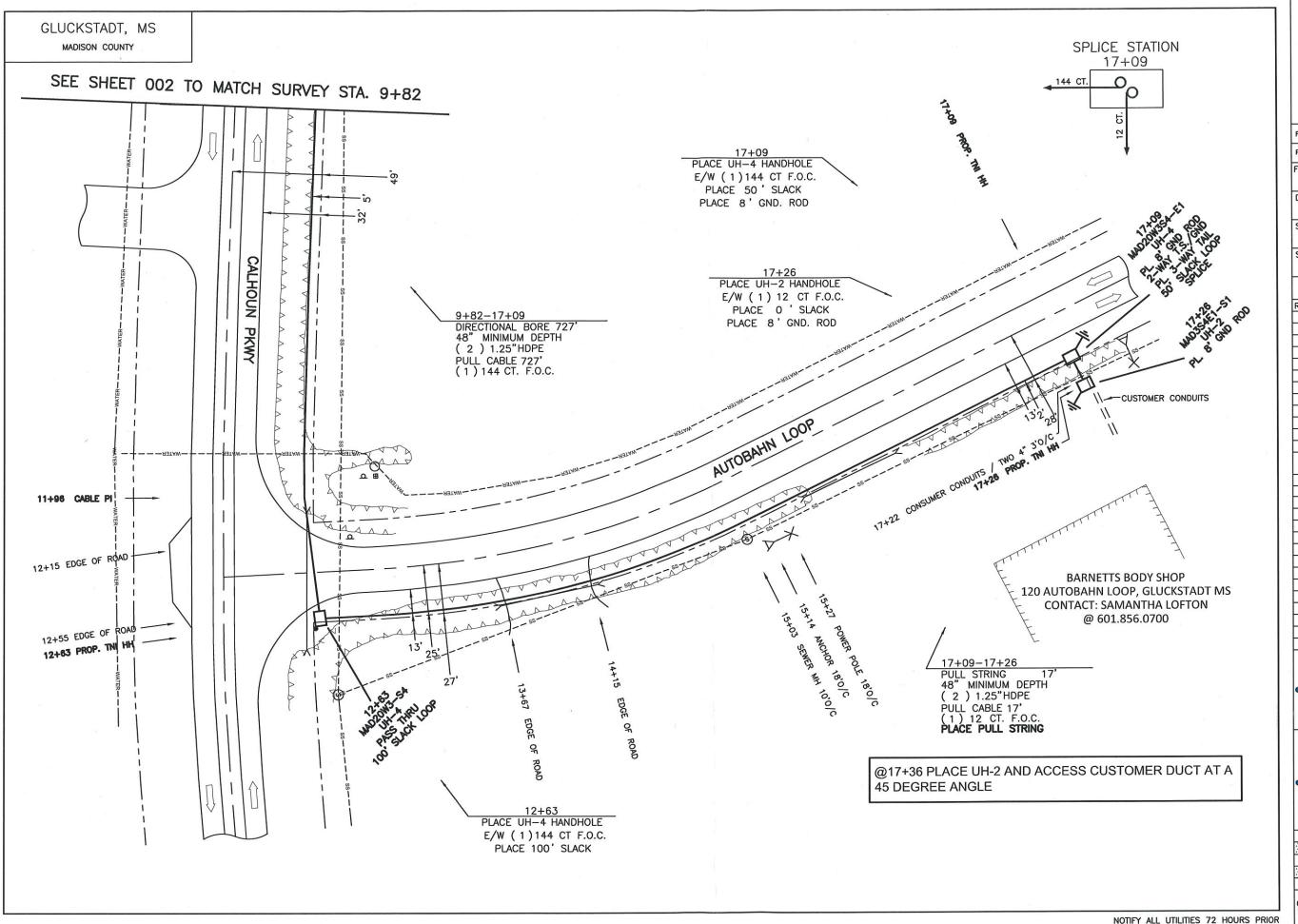
12 AERIAL CABLE 0'

13 RISERS

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FILE NAME BBS-003

PROJECT CITY - GLUCKSTADT, MS

FULL FILENAME

BBS-003.dwg

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			10

MATERIAL LIST

ITEM	DESCRIPTION	QUANTITY
1	TOTAL CABLE FT.	894'
2	DIR-BORE CABLE	744'
3	PULL CABLE	0,
4	BURIED SLACK	150'
5	1.25" HDPE	1488'
6	5" HDPE CASING	17'
7	HANDHOLES	3
8	MANHOLES	0
9	SPLICE CLOSURE	1
10	H-POSTS	0
11	GROUND RODS	2
12	AERIAL CABLE	0'
13	RISERS	0
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ONE CALL SYSTEM @ 1-800-227-6477