BOARD OF SUPERVISORS

MADISON COUNTY, MISSISSIPPI

Department of Engineering Tim Bryan, P.E., County Engineer 3137 South Liberty Street, Canton, MS 39046 Office (601) 790-2525 FAX (601) 859-3430

MEMORANDUM

May 24, 2022

To: Sheila Jones, 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, Inc./Cspire Utility Permit

County Road Name, Old Natchez Trace

The Engineering Department recommends approval of the permit application for Telepak Networks, Inc./Cspire to directional bore at a minimum of 48" in depth for installation of Fiber Optic Cable from an existing handhold located along Old Natchez Trace and following Old Natchez approximately 320 feet. Then place a new handhold and cross under Old Natchez Trace and place new handhold for service to 752 Old Natchez Trace Road.

Revised: 2/14/2019



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

| <u>Utility Information:</u> Utility Name: Telepak Networks, Inc doa CSpire | - Fiber | | | | |
|---|--|--|--|--|--|
| Address: 1018 Highland Colony Parkway Suite 400 City/Stat | re/Zip: Ridgeland, MS 39157 | | | | |
| Contact Person: Gaines Hodge / CSpire OSP Permit Specialist Contact's | s Phone: 601-941-2536 | | | | |
| Project Information: County Road Name: Old Natchez Trace | | | | | |
| West of Sharon Rd & Old Natchez Beginning Location: Trace intersection Ending Location | ht-of-way, use Appendix 1 for additional descriptions) : 752 Old Natchez Trace | | | | |
| Length of Project: 352 feet Section: 12 Township | p: <u>8 N</u> Range: <u>3 E</u> | | | | |
| Description of Work: 66441-001 / 12022157 / Rachel Precision LLC @ | 752 Old Natchez Trace Canton, MS 39046 | | | | |
| A directional bore at a minimum of 48" in depth for installation of Fiber Optic Cab Old Natchez Trace and following Old Natchez Trace approximately 320 feet and Old Natchez Trace and placing a new HH traveling a total distance of 352 feet. | | | | | |
| 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 | SS the signature of the Applicant this the $_$ | 24th | day of By: <i></i> _ | may Annis Jurye (Applicant Signature) | , 20 <u>22</u> . |
|---------|--|--------|-------------------------|---|------------------|
| | | | Title: CSpi | re OSP Permit Specialis | st |
| Note: | Applicant must be an employee of the Utility nam a Contractor, Subcontractor, Agent, or Consulting performed under this application. | | | | |
| plans s | y authorized representative, have reviewe ubmitted by the Applicant meet the requir ht-of-Way of all Public County Roads. | | | | - |
| | | | Ву: | | |
| AGREE | D TO AND APPROVED BY: | | | Tim Bryan, P.E. County Engineer | |
| | | | | Date: | |
| | Madison County Board President | | | | |
| ENTER | ED INTO THE MINUTES OF THE BOARD | OF SUP | ERVISORS O | F MADISON COUNTY, MIS | SISSIPPI ON THIS |
| | DAY OF | _, 20 | · | | |

Appendix 1

| County Road Name: | | | |
|----------------------|----------|------------------|--------|
| Beginning Location: | | Ending Location: | |
| Length of Project: | Section: | Township: | Range: |
| Description of Work: | | | |
| County Road Name: | | | |
| Beginning Location: | | Ending Location: | |
| Length of Project: | Section: | Township: | Range: |
| Description of Work: | | | |
| County Road Name: | | | |
| Beginning Location: | | Ending Location: | |
| Length of Project: | Section: | Township: | Range: |
| Description of Work: | | | |
| County Road Name: | | | |
| Beginning Location: | | Ending Location: | |
| Length of Project: | Section: | Township: | Range: |
| Description of Work: | | | |
| County Road Name: | | | |
| Beginning Location: | | Ending Location: | |
| Length of Project: | Section: | Township: | Range: |
| Description of Work: | | | |



ASBUILT INFORMATION

FIELD ENGINEER:

PROJECT MANAGER:

CONSTRUCTION:

SUB CONTRACTOR:

INSPECTOR:

PHONE#:

CONSTRUCTION COMMENCED:

NAME:

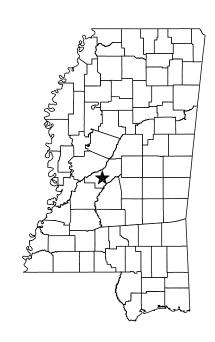
PHONE#:

CONSTRUCTION COMMENCED: DATE:

CONSTRUCTION COMPLETED: DATE:

FIBER INSTALLED: DATE:

FINAL CLEANUP: DATE:



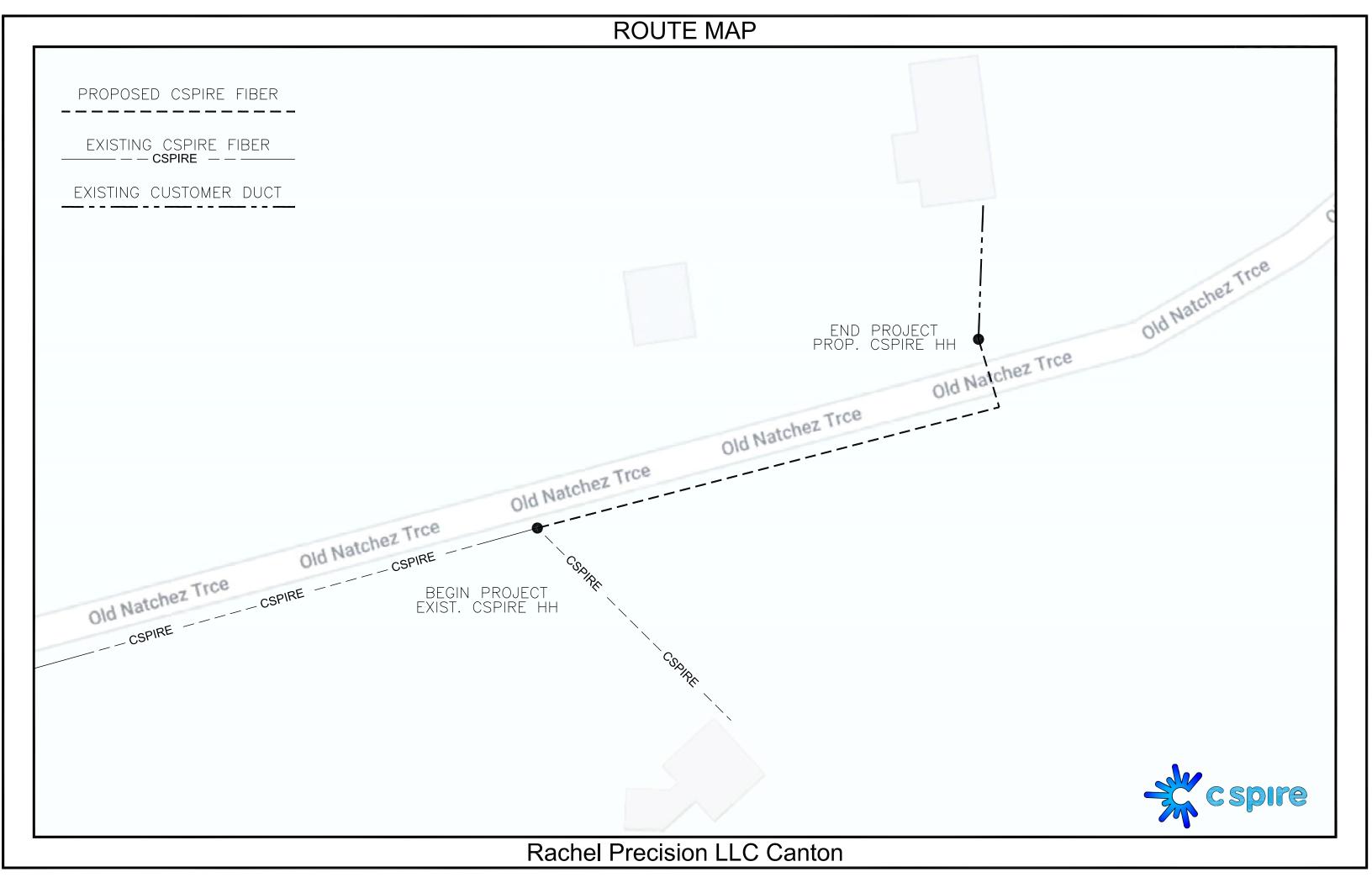
< PERMITS >>
COUNTY: MADISON

SWO.OSP.66441 CS.OSFPMS-MADCTY.MS

PROPOSED FIBER BUILD Rachel Precision LLC Canton 5-19-22



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 OTHERWISE.
- 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 UTILITY 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 REVENUE.
- 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:

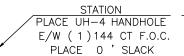
ALL WORK SHALL COMPLY WITH THE UNIFORM TRAFFIC CONTROL MANUAL. (1998 EDITION OF MUTCD, REVISION 3) OR NEWER VERSIONS OF THIS MANUAL.

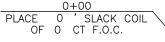
CLARIFICATION NOTES:

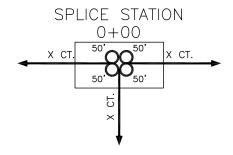
NOTE: CALLOUTS WILL BE PLACED ON EACH DRAWING INDICATING FOLLOWING:

MATERIAL AMOUNT DEPTH IF BURIED SIZE OF FIBER SIZE OF HDPE SIZE OF STRAND CABLE ID

0+00-0+00 DIRECTIONAL BORE 0 MINIMUM DEPTH (0) 1.25"HDPE PULL CABLE 0 (0) 0 CT. F.O.C.







NOMENCLATURE **DEFINITION**

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

WIRE WITHE CONNECTOR.

2 BM53F PLACEMENT OF PLASTIC MARKER POLE, MINIMUM OF 30" IN GROUND

AS INDICATED BY DRAWINGS.

3 BM53F(A): PLACEMENT OF LOCATE MARKER POST AND PLACEMENT OF WIRE INSIDE OF POST FROM GROUND ROD AND SPLICE CLOSURE TO BE TERMINATED

IN POST FOR LOCATION OF FACILITIES AS INDICATED ON DRAWINGS.

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

5 BM73 RESTORATION OF CONCRETE PER SQ. FT. AS REQUIRED BY COMPANY REP.

6. UO-144: PLACEMENT OF 144 COUNT FIBER INTO INNER-DUCT, LEAVING SLACK IN HAND HOLES AS INDICATED ON DRAWINGS. PRICE PER PLACEMENT IS ON

'PER FOOT' BASIS.

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

A 'PER FOOT' BASIS.

SYMBOL



✓ BM53F

✓ BM53F(A)

NONE

NONE

NONE

NONE

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



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| 2 | DIR-BORE C | AB | LE | 0' | |
| 3 | PULL CABLE | | | 0' | |
| 3 4 5 | BURIED SLAG | CK | | 0' | |
| 5 | 1.25" HDPE | | | 0' | |
| 6 | 5" HDPE CA | SIN | IG | 0' | |
| 7 | HANDHOLES | | | 0 | |



8

9

12

13

14

MANHOLES

11 GROUND RODS

RISERS

AERIAL CABLE

10 H-POSTS

SPLICE CLOSURE

0

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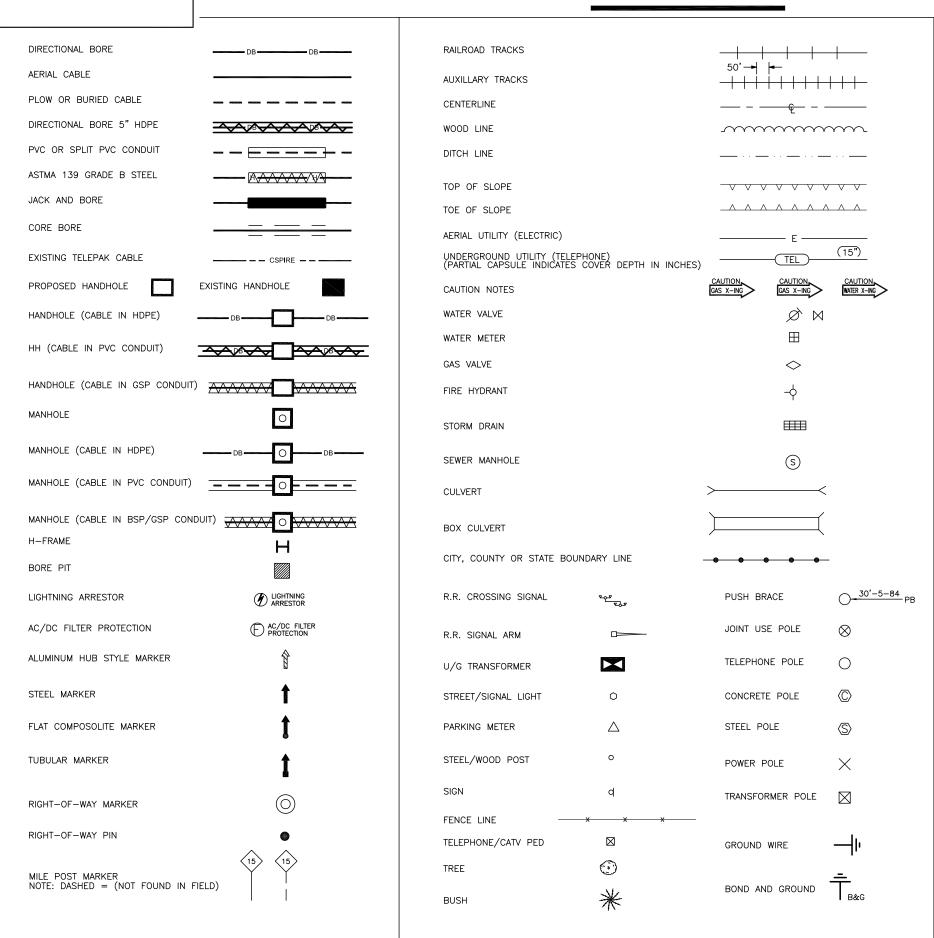
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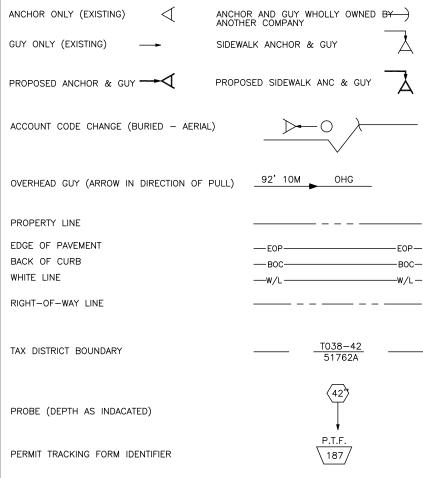


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SYMBOLS KEY





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 онс | 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 |



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| 3 | PULL CABLE | | | 0' | |
| 4 | BURIED SLAG | CK | | 0' | |
| 5 | 1.25" HDPE | | | 0' | |
| 6 | 5" HDPE CA | SIN | IG | 0' | |
| 7 | HANDHOLES | | | 0 | |
| 8 | MANHOLES | | | 0 | |
| 9 | SPLICE CLOS | SUF | RE | 0 | |
| 10 | H-POSTS | | | 0 | |
| 11 | GROUND RO | DS | | 0 | |

cspire

PREPARED BY

12 AERIAL CABLE

RISERS

13

14

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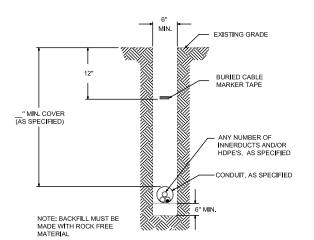


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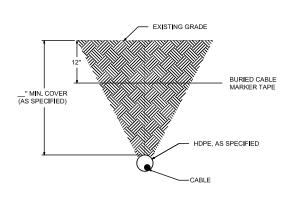
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PLACEMENT-TYPICALS

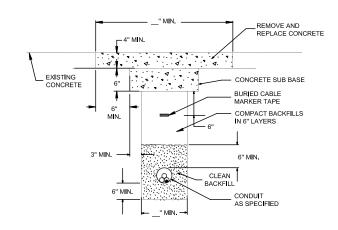
TYPICAL DETAIL "A" **PLACE CONDUIT CROSS SECTION**



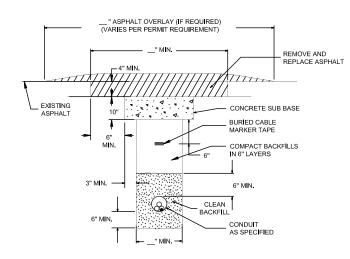
TYPICAL DETAIL "B" PLACE HDPE CROSS **SECTION**



TYPICAL DETAIL "C" CONCRETE / PAVEMENT OPEN CUT CROSS SECTION

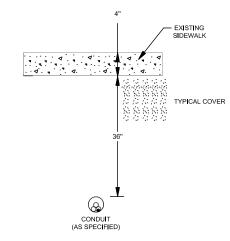


TYPICAL DETAIL "D" ASPHALT/PAVEMENT OPEN CUT CROSS SECTION

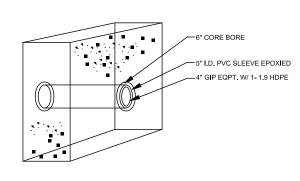


OPEN CUT-TYPICALS

TYPICAL DETAIL "E" BORE CONCRETE SIDEWALK

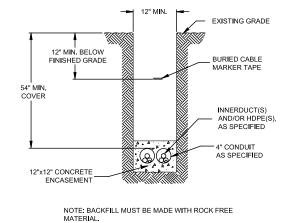


TYPICAL DETAIL "F" CORE BORE (CONCRETE / BRICK WALL)



TYPICAL DETAIL "G"

12"x12" CONCRETE ENCASEMENT



TYPICAL DETAIL "H"

PLACE (2) 1.25" HDPE IN CONDUIT

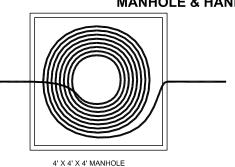


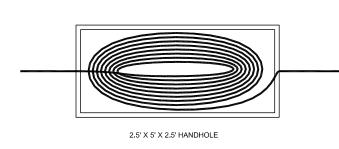
TYPICAL DETAIL "I"

PLACE CABLE IN HDPE

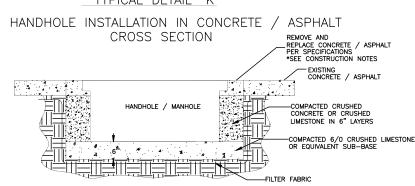


TYPICAL DETAIL "J" MANHOLE & HANDHOLE SLACK COIL DETAIL





TYPICAL DETAIL "K"



NOTIFY ALL UTILITIES 72 HOURS PRIOR



| FILE NAME | T-03 |
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PROJECT CITY -

1"=50'

FULL FILENAME T-03.dwq

DESCRIPTION DATE CONSTRUCTION SHEET DRAWN BY PAGE SCALE

REVISIONS

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MATERIAL LIST

| ITEM | DESCRIPTION | QUANTITY |
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| 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 |
| 4.4 | | |

PREPARED BY



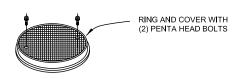
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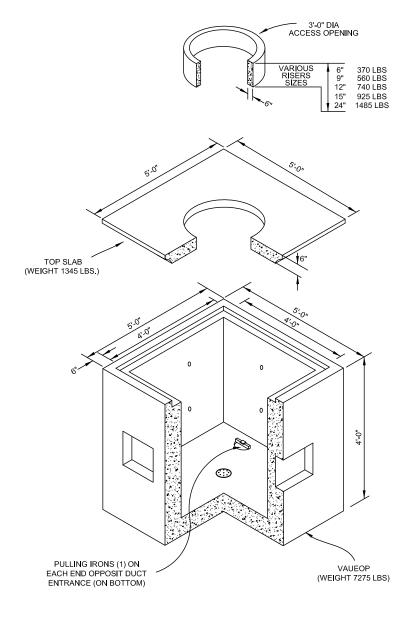
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CAPITOL CONCRETE PRODUCTS, INC



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

1"=50'

T-04.dwg

DATE DESCRIPTION CONSTRUCTION

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SCALE PAGE

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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

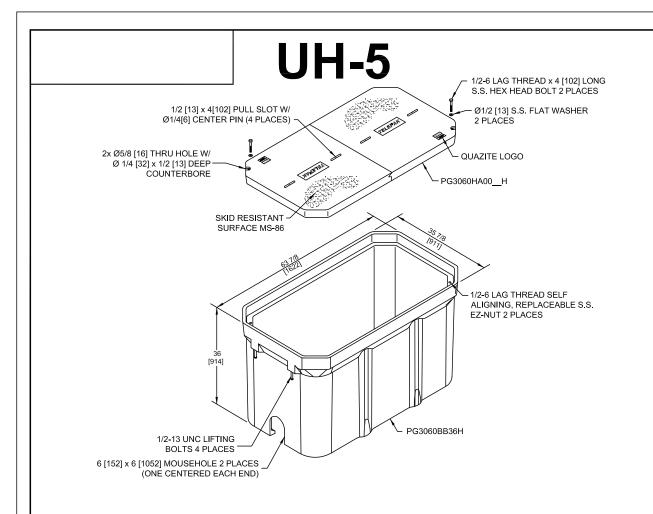


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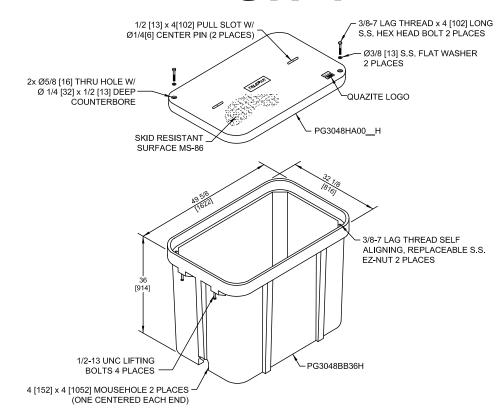


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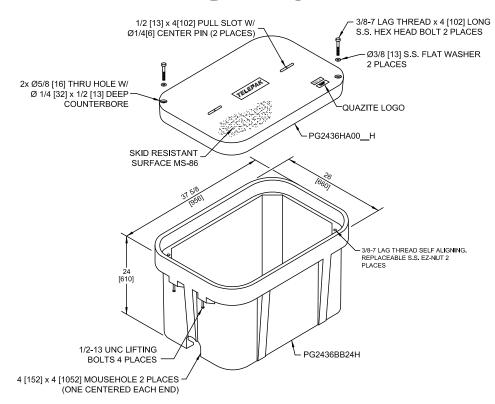
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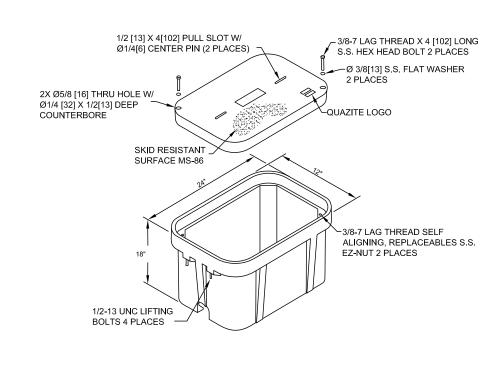
UH-4



UH-3



UH-2





FILE NAME T-05

PROJECT CITY -

DATE

FULL FILENAME

T-05.dwg

DESCRIPTION

CONSTRUCTION

SHEET DRAWN BY

5

SCALE PAGE
1"=50' 5

REVISIONS

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| | REV. | DESCRIPTION | INITIALS | DATE |
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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 |
| | | |

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TYPICAL HAND HOLE INSTALLATION - CRIMPED AND MARKER POLE OR AT EVERY HANDHOLE LOCATION FLUSH MOUNT FINK PLATE IF NEEDED TOGETHER WITH A MARKER POST, MARKER POST WITH -1.25" HDPE SHOULD EXTEND 48" INTO LOCATE PIGTAIL CENTERED SPARE WIRE WILL GO MARKER POST. HDPE SHOULD ALSO BEHIND HANDHOLE UP FIBER TAIL INTO 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" HDPE TO INDICATE WITH LONG WIRES BELOW GROUND AND 6" TO THE DUCT LEADING (CONNECTORIZED ENDS) THE LEFT OF MARKER POST TO MARKER POST

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

FED UP INTO MAKER POST

AND SHORT WIRE TO

GROUND ROD

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

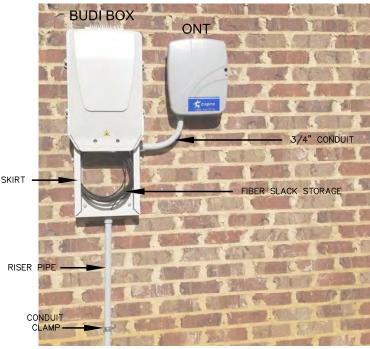
BOXES (Nestable)

OUTSIDE OF HANDHOLE

| 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.

TYPICAL BUDI BOX, SKIRT & ONT COMBO **OUTDOOR INSTALLATION** PROCEDURES AT BUILDING ENTRIES



PLEASE MOUNT BUDLBOX 36" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS BUDI BOX & ONT INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION.

3. MOUNT 3' RISER PIPE TO THE WALL USING SHOWN CONDUIT STRAPS.

JOIN RISER PIPE TO SKIRT AT SHOWN LOCATION & MOUNT BUDI BOX & SKIRT TO WALL 5. USING A 3/4" SWEEPING 90, CONNECT SKIRT TO ONT AND MOUNT ONT TO WALL. PLACE FIBER FROM DUCT INTO RISER PIPE AND INTO SKIRT LEAVING A 5' SLACK LOOP. **BUDI BOX, SKIRT & ONT COMBO OUTDOOR INSTALLATION COMPLETED INSTALL**



PROJECT CITY -

1"=50'

FULL FILENAME

T-06.dwd

DATE DESCRIPTION 03-10-16 CONSTRUCTION SHEET DRAWN BY J.BUSBY PAGE SCALE

REVISIONS

- REV. DESCRIPTION INITIALS DATE
 - MATERIAL LIST
- ITEM DESCRIPTION QUANTITY TOTAL CABLE FT. DIR-BORE CABLE PULL CABLE BURIED SLACK 1.25" HDPE 5" HDPE CASING HANDHOLES 8 MANHOLES 9 SPLICE CLOSURE H-POSTS 11 GROUND RODS 12 AERIAL CABLE 13 RISERS 14

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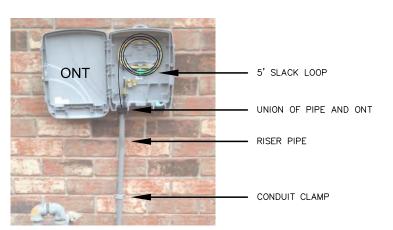


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CONTRACT: THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF CSPIRE FIBER. BEING ISSUED IN STRICT
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COPIED, OR USED FOR ANY PURPOSE

EXCEPT AS MAY BE OTHERWISE PROVIDED BY

TYPICAL ONT OUTDOOR INSTALLATION PROCEDURES AT BUILDING ENTRIES

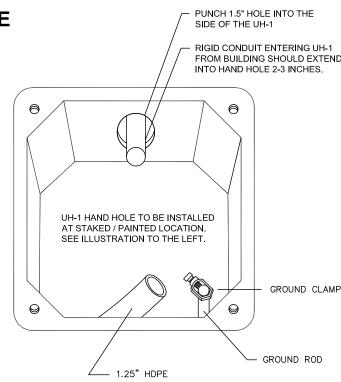


- 1. PLEASE MOUNT ONT 48" OFF THE GROUND UNLESS OTHERWISE STATED ON THE DRAWINGS.
- 2. ONT & FDP INSTALLATION LOCATION WILL BE SHOWN ON THE CONSTRUCTION DRAWINGS. PLEASE DO NOT USE PICTURES AS A HEIGHT INDICATOR FOR THE INSTALLATION. MOUNT ONT AS CLOSE TO THE POWER METER AS POSSIBLE
- 3. DUCT PLACED 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 ACCEPTABLE.
- 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.

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.



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.

"SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" AS MANUFACTURED BY QUAZITE OR

15 APPLICATIONS AND BOXES RATED FOR TIER 22

FOUIVALENT WITH TELEPAK NETWORK'S ENGINEER'S

APPLICATIONS AND IN NO ASSEMBLY CAN THE COVER

COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE

BE SELF-CLEANING AUGER BOLT ASSEMBLIES.

2. ALL ENCLOSURES, BOXES AND COVERS, ARE REQUIRED TO

CONFORM TO ALL TEST PROVISIONS OF ANSI/SCTE 77 2007

SIGNED APPROVAL. THE COVERS MUST BE RATED FOR TIER

DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX, ALL

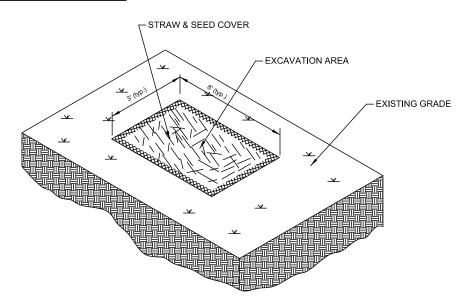
MANUFACTURED USING MATCHED SURFACE TOOLING, ALL

COVERS ARE REQUIRED TO HAVE A MINIMUM COEFFICIENT

AND HAVE TIER 15 AND "TELEPAK NETWORKS 800-342-3716"

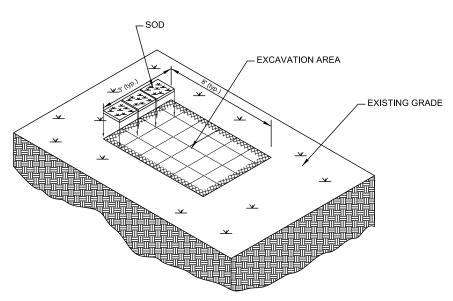
EMBOSSED ON THE TOP SURFACE, ALL COVER BOLTS TO

OF ERICTION OF 0.50 IN ACCORDANCE WITH ASTM C.1028.



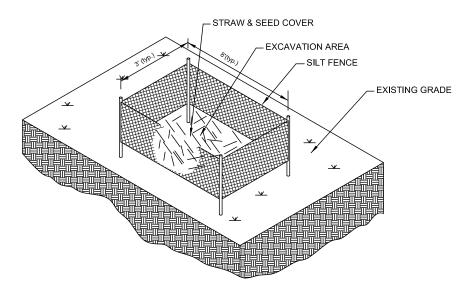
TYPICAL EROSION DETAIL #1 NOTE TO CONSTRUCTION:

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



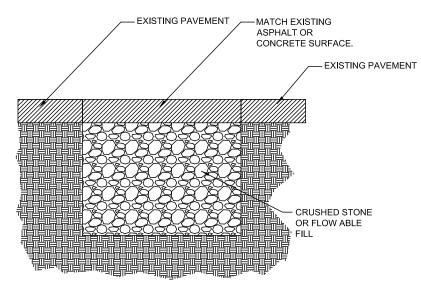
TYPICAL EROSION DETAIL #3 NOTE TO CONSTRUCTION:

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.



| ı | FILE | NAME | T-07 |
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PROJECT CITY -

SCALE

FULL FILENAME

T-07.dwg

PAGE

DATE DESCRIPTION

CONSTRUCTION
SHEET DRAWN BY

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1"=50'

REVISIONS
REV. DESCRIPTION INITIALS DATE

MATERIAL LIST

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

PREPARED BY

14



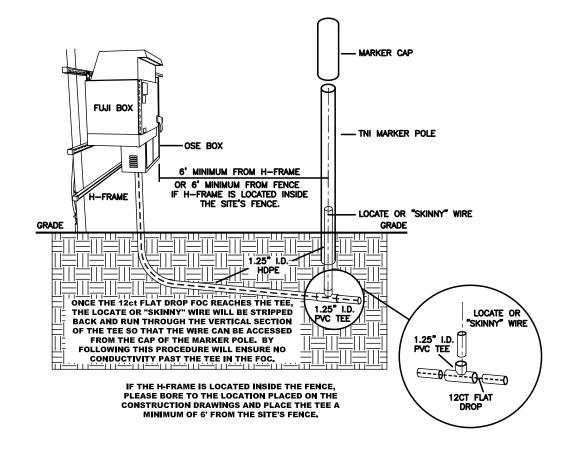
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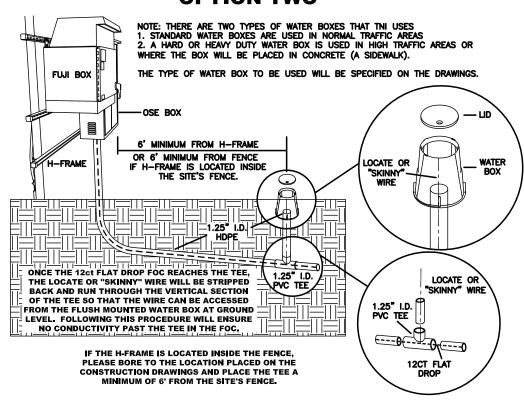
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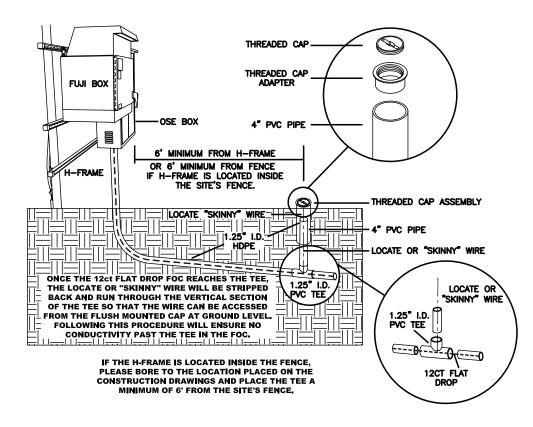
DIELECTRIC TEST STATION (DTS) TYPICALS



FLUSH MOUNTED WATER BOX INSTALLATION **OPTION TWO**



THREADED PVC FLUSH MOUNTED **ACCESS CAP OPTION THREE**





FILE NAME T-08 PROJECT CITY -FULL FILENAME T-08.dwc DATE DESCRIPTION CONSTRUCTION

SHEET DRAWN BY PAGE SCALE 1"=50'

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

PREPARED BY

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PREPARED FOR



MAP NUMBER DISCLAIMER EXCEPT AS MAY BE OTHERWISE PROVIDED BY

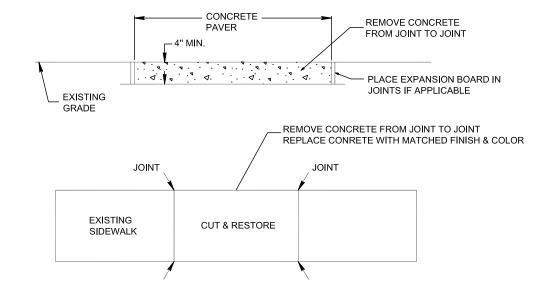
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SIDEWALK CUT & RESTORE **TYPICAL DETAIL**

SIDEWALK MUST BE ADA COMPLIANT WHERE APPLICABLE

TYPICAL DETAIL "A"

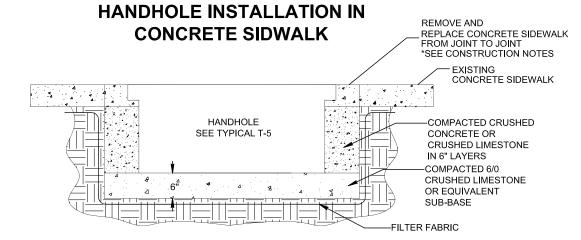
CONCRETE CUT & RESTORE REPLACEMENT

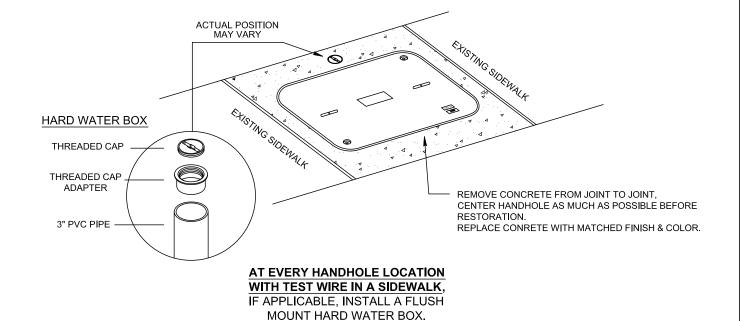


CONSTRUCTION NOTES:

- 1. PROVIDE BARRIERS AND TRAFFIC CONTROL PER MUTCD REV.3 OR NEWER. 2. 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.

TYPICAL DETAIL "B"





RESTORE CONCRETE TO ORIGINAL

FINISH & COLOR



PROJECT CITY -FULL FILENAME T-09.dwc DATE DESCRIPTION CONSTRUCTION SHEET DRAWN BY PAGE SCALE 1"=50'

REVISIONS REV. DESCRIPTION INITIALS DATE

MATERIAL LIST ITEM DESCRIPTION QUANTITY TOTAL CABLE FT. DIR-BORE CABLE PULL CABLE BURIED SLACK 1.25" HDPE 6 5" HDPE CASING HANDHOLES 8 MANHOLES 9 SPLICE CLOSURE 10 H-POSTS 11 GROUND RODS 12 AERIAL CABLE 13 RISERS 14

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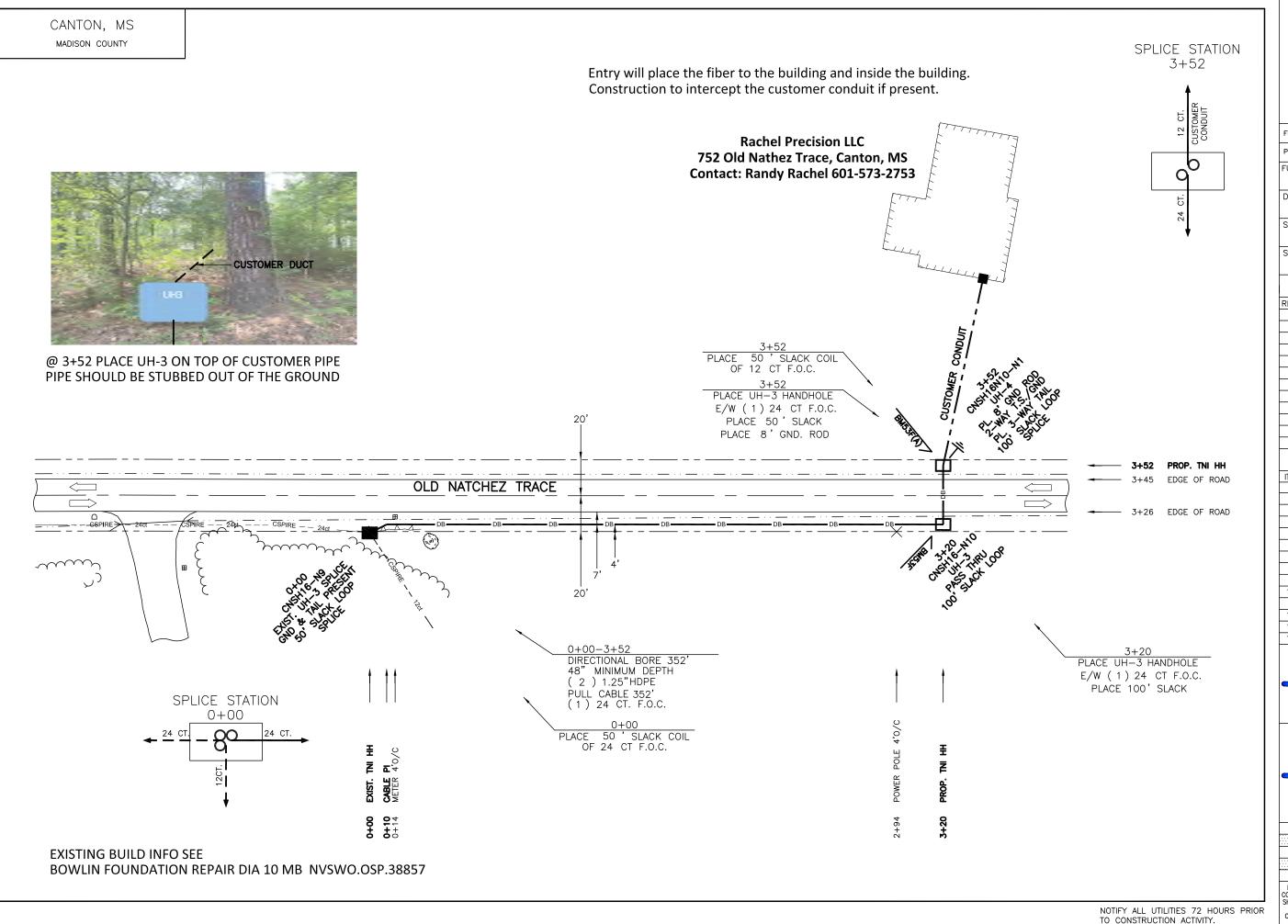


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MAP NUMBER DISCLAIMER EXCEPT AS MAY BE OTHERWISE PROVIDED BY

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FILE NAME RPL-001

PROJECT CITY - CANTON, MS

FULL FILENAME

RPL-001.dwg

DATE DESCRIPTION 05-23-22 CONSTRUCTION SHEET DRAWN BY C.GILNER SCALE 1"=50'

REVISIONS

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MATERIAL LIST

| | ITEM | DESCRIPTION | QUANTITY |
|--|--|-----------------|----------|
| | 1 | TOTAL CABLE FT. | 602' |
| | 2 | DIR-BORE CABLE | 352' |
| | 3 | PULL CABLE | 0' |
| | 4 | BURIED SLACK | 250' |
| | 5 | 1.25" HDPE | 704' |
| | 6 | 5" HDPE CASING | 0' |
| | 7 | HANDHOLES | 2 |
| | 8 MANHOLES 9 SPLICE CLOSURE 10 H-POSTS | | 0 |
| | | | 2 |
| | | | 0 |
| | 11 | GROUND RODS | 1 |
| | 12 | AERIAL CABLE | 0' |
| | 13 | RISERS | 0 |
| | 14 | | |

PREPARED BY



PREPARED FOR



| MAP NUMBER | | |
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