



# **Underground Wireline Occupancy**

# RailPros Tracking # 8539

General Details	
Applicant WO# - PO#:	PO#: WO#:
RR Activity/File #:	
Project Name:	The Point: US36/37 under NSRR
Estimated Start and End Date:	From 03/07/2022 To
New or Existing?	X New Existing Permit#
Railroad(s):	Norfolk Southern Lake Division (Sandusky Subdivision), FRA Crossing 482030W, BR019283
Summary of Proposed Work, etc.:  Specifications	Install Six (6) @ 4" Multicell conduits inside of a trench in US Route 36/37 under the existing NSRR Railroad bridge BR019283. The Conduits will be installed empty to facilitate private utility installations in a single utility corridor. Each utility will permit their occupancy in these ducts separately, after the installation of this underground duct bank. The placement of these conduits was chosen to avoid current and future utilities, as well as adjacent roadway and property impacts. There will be no roadway markings, but manholes at each end will indicate their location.
Type of Proposed Installation:	
Transverse crossing only  Longitudinal (parallel to tracks) occupancy only	
Longitudinal and transverse crossing(s)	
X Wire line in highway under railroad bridge	
Wire line on highway bridge over railroad	
Type of Wire:  Cable TV  Telephone	Electric Power Fiber Optic





X	Other Installed Empty
Gauge of w	vire:
Total numb	per of wires:
Material of	wire:
Maximum o	circuit voltage:
Total numb	per of fibers or pairs in cable:
	und conduit applications shall include a conduit data sheet, plan, and profile view of the proposed facility. See the NSCE-4 for the native state of the conduit data sheet, plan, and profile view of the proposed facility. See the NSCE-4 for the native state of the conduit data sheet, plan, and profile view of the proposed facility. See the NSCE-4 for the native state of the conduit data sheet, plan, and profile view of the proposed facility. See the NSCE-4 for the native state of the conduit data sheet, plan, and profile view of the proposed facility.
Conduit Data	a Sheet (next page)
Plan View o	of Crossing (see NSCE-8 Specification Plate II for sample)
X	All railroad tracks, including distance to any track switches or turnouts from proposed conduit
X	Indicates distance (in feet) to Norfolk Southern Milepost or grade crossing
X	Angle of crossing relative to railroad track(s)
X	Dimensioned property lines
	Location of conduit marker signs (preferably located at edge of property or right of way lines)
	Location of all existing railroad communications lines and all utility lines
	Location of any fiber-optic cables parallel to tracks
	Conduit casing pipe length
	If within highway limits or in the vicinity of a grade crossing, location and type of grade crossing traffic control devices (flashers, gates, etc.) and clearance from existing devices to proposed wire line
	Location of launching and receiving pits
Profile View	v of Crossing (see NSCE-8 Specification Plate III for sample)
X	All railroad tracks
X	Profile of ground above crossing





X	Dimen	nsioned property lines	<b>A</b>	
X	Theore	etical railroad embankment lines		
	Propos	sed location and elevations of launching and receiving pits		
	Casing	g pipe length		
X	Botton	n of rail elevation		
X	•	of cover between bottom of rail and top of conduit or casing		
X	Location	on of and the minimum depth of cover from ground line to to s)	p of con <mark>d</mark> uit or c <mark>as</mark> ing pipe or	right of way (including
Conduit Data		Power Conduits only,6" in diameter or less)	4	
			CONDUIT	
		NOMINAL SIZE OF PIPE	4"	
		MATERIAL*	PVC	
		OUTSIDE DIAMETER	4.5"	
		INSIDE DIAMETER	4.026"	
		WALL THICKNESS - must be at least 0.188"	0.237"	
		TYPE OF COATING	N/A	
Proposed r	H	TEEL conduits required at least 10' depth below base of HDPE conduits will be considered at least 15' depth below of installation (refer to NSCE-4 Specification):		
	, 1	( & Bore	au haaa af rail	
	1	ctional Boring Method "A" – must have at least 10' depth belo ctional Boring Method "B" – only for casings 6 inches or less		
		ctional Boring Method B — only for casings 6 inches or less n Cut — All installations directly under any track must be desi		Open cut
ins		ns will be considered on a case-by-case basis by Norfolk Sou	•	•

Open Cut in public roadway under an existing

<u>bridge</u>

installation.

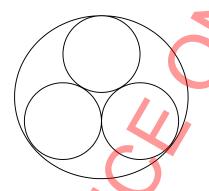
X Other – Please Specify:





## NUMBER OF INNERDUCTS WITHIN CASING PIPE: 4 per Conduit (6 Conduits)

- Provide a detail or cross section of the casing pipe with innerducts (see below).
- Clearly mark the type of facility that will be installed within each innerduct. If innerduct will be left spare or empty, please identify as such.



#### **Contact Info**

Name	Legal Name	Contact Type	Mailing Address	Physical Address	Contact
Eric Dues	Gannett Fleming	Consultant	2500 Corporate	2500 Corporate	
	Engineers &		Exchange Dr, Ste	Exchange Dr, Ste	
	Architects, P.C.		230	230	
			Columbus, Franklin,	Columbus, Franklin,	
			Ohio 43231	Ohio 43231	
Thomas Homan	City of Delaware	Party to be Invoiced	1 South Sandusky	1 South Sandusky	(740) 203-1011
			Street	Street	
			Delaware,	Delaware,	
			Delaware, Ohio	Delaware, Ohio	
			43015	43015	
Thomas Homan	City of Delaware	Licensee/Facility	1 South Sandusky	1 South Sandusky	(740) 203-1011
		Owner	Street	Street	
			Delaware,	Delaware,	
			Delaware, Ohio	Delaware, Ohio	
			43015	43015	

**Location Details** 

Latitude: 40.2977239 Longitude: -83.0469113

Physical Address:





495 Sunbury Rd De	laware, OH 43015	MilePost:	23.79
		Line/Branch/Subdivision:	Sandusky
State:	Ohio	Station:	1256+50 To
County:	Delaware	Val Map:	V-18-0/189
City/Town/Village:	Delaware	NS Subsidiary RR/Shortline RR	
Zip:	43015		
Street Name:			
Division:	Lake		
Description:	US 36/37 Currently passes under tempty to facilitate private utility ins	he NSRR Railroad Bridge BR019283 tallations in a single utility corridor.	The Conduits will be installed
How site is marked?	When complete, manholes at eithe property).	er end of this utility duct bank will mark t	heir locations (off NSRR
Legal Description	4	<b>Q</b> -	
Township:	Delaware	Tax Lot:	
Range:		Tax Map #:	
Section:		Quarter Section:	
Block #:		Subdivision Name:	
Description:	<del></del>		
Documents			
Liability Insurance			
		license can be issued. You may upload please indicate. You will not be charged	
Yes, if approv	red please add this project to the NS	Master RPL at the time of license issua	ince.
X No, we secure	e a different policy.		





Total estimated value of the project located on Norfolk Southern Property:

### \$150,001-\$350,000

Project Duration on Norfolk Southern Property:

#### 12 months or less

Title	Description	Document Type	Version #	Date Uploaded
Plan and Profile_10/14/2021 06:30:21 AM	Plan and Profile of proposed empty duct banks to be used by individual utility installations.	Plan and Profile		10/14/2021
Variance Request Letter	Variance request for the conduits passing under the existing railroad bridge.	Other	1	10/14/2021

## Fee Payment

Description		Amount
Application Submission Fee		\$2000.00
Expedited Fee	V	\$0.00
Fee Waived Amount	0-	\$0.00
Estimated Total Fee		\$2000.00
Due Amount	U,	\$0.00
Paid Amount		\$2000.00

### Confirmation

*** Make sure you have reviewed the detail	. Up	on submission,	your appli	cation will	be locked fo	r editing an	d will be	routed for	processing	g.
--------------------------------------------	------	----------------	------------	-------------	--------------	--------------	-----------	------------	------------	----

Terms of use	Application Submitted By	Date/Time	
X I agree to the terms of use	Eric Dues	10/14/21 9:03:48 AM	
CADD Generated drawings and a vari	ance request letter are provided.		



Excellence Delivered As Promised

October 14, 2021

Norfolk Southern Permitting

Re: <u>Variance Request</u> for Multi-Cell Fiber Optic Ducts in US 36/37 Roadway under BR0019283

#### Permitting,

In anticipation of necessary utility installations, the City of Delaware is proposing to install six (6)-4" multicell ducts in a location identified as free from future roadway work and adjacent property impacts. This location is generally in the US 36/37 roadway, clear of current and planned utilities, with manhole access provided at each end (off of NSRR Right-Of-Way). As US 36/37 travels under NSRR Bridge BR0019283, the roadway installation will require a variance due to proximity to existing foundations.

The attached plans detail trench locations in relationship to detailed existing bridge foundations. The plan details of the existing bridge are known from project survey and existing NSRR bridge plans (datum adjusted). The bottom of trench is outside of a 1:1 line down from the bottom of existing pier footings, resulting in no encroachment into foundation strata. The existing foundations are spread footings on stiff "blue clay" per the existing as-built bridge plans, and the stiff clay layer is confirmed by our project borings. The conduits will be installed to manholes on either end (off NSRR property), from which location private utilities will pull their infrastructure through the innerducts.

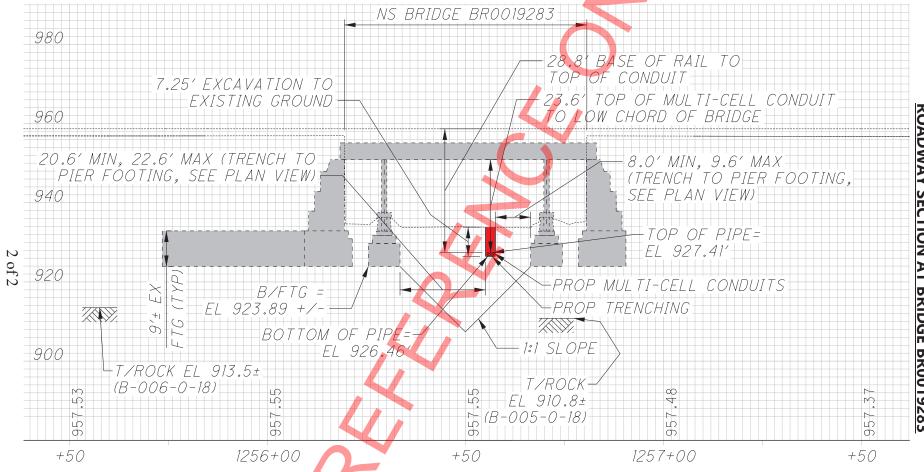
The City of Delaware will pay for and manage the contract for the installation of the 6 multi-cell ducts; they will own and insure the ducts. The ducts will be installed empty, with each private utility acquiring NS permits and pulling their cables through as part of their installation process. The exact location of each utility within the conduit array will be identified along with each of the private utility permit applications; their applications are expected to begin after this permit is approved for construction.

Given the area available in the roadway along with the position of the proposed duct bank relative to the existing foundations and utilities, I would respectfully request a variance to allow this installation. A detailed roadway section at the bridge is attached for ease of reference (page 2/2 of this letter).

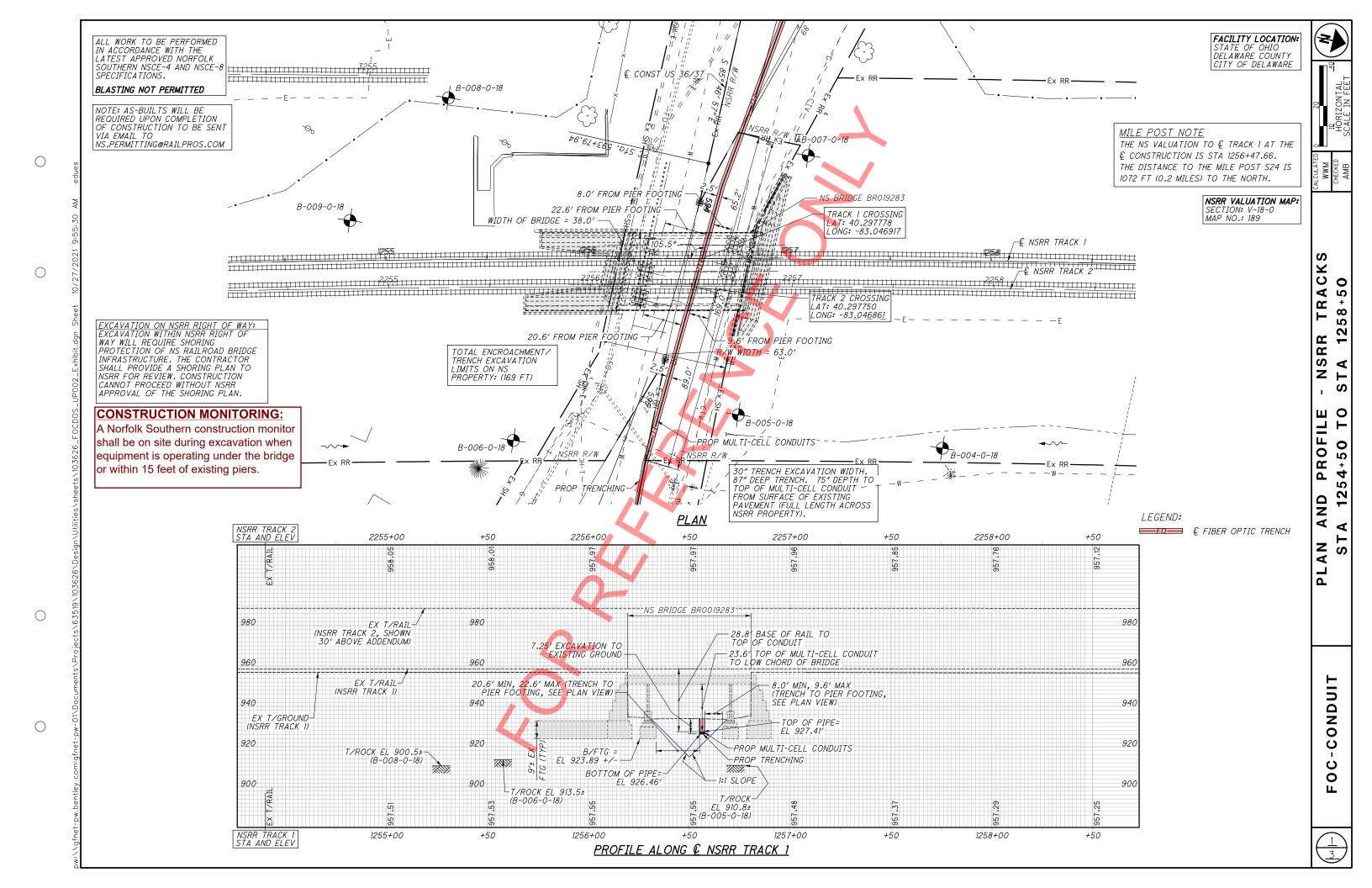
Feel free to call or email with any questions about this multi-cell installation. My direct number is 513-304-8435, and email is <a href="mailto:edues@gfnet.com">edues@gfnet.com</a>.

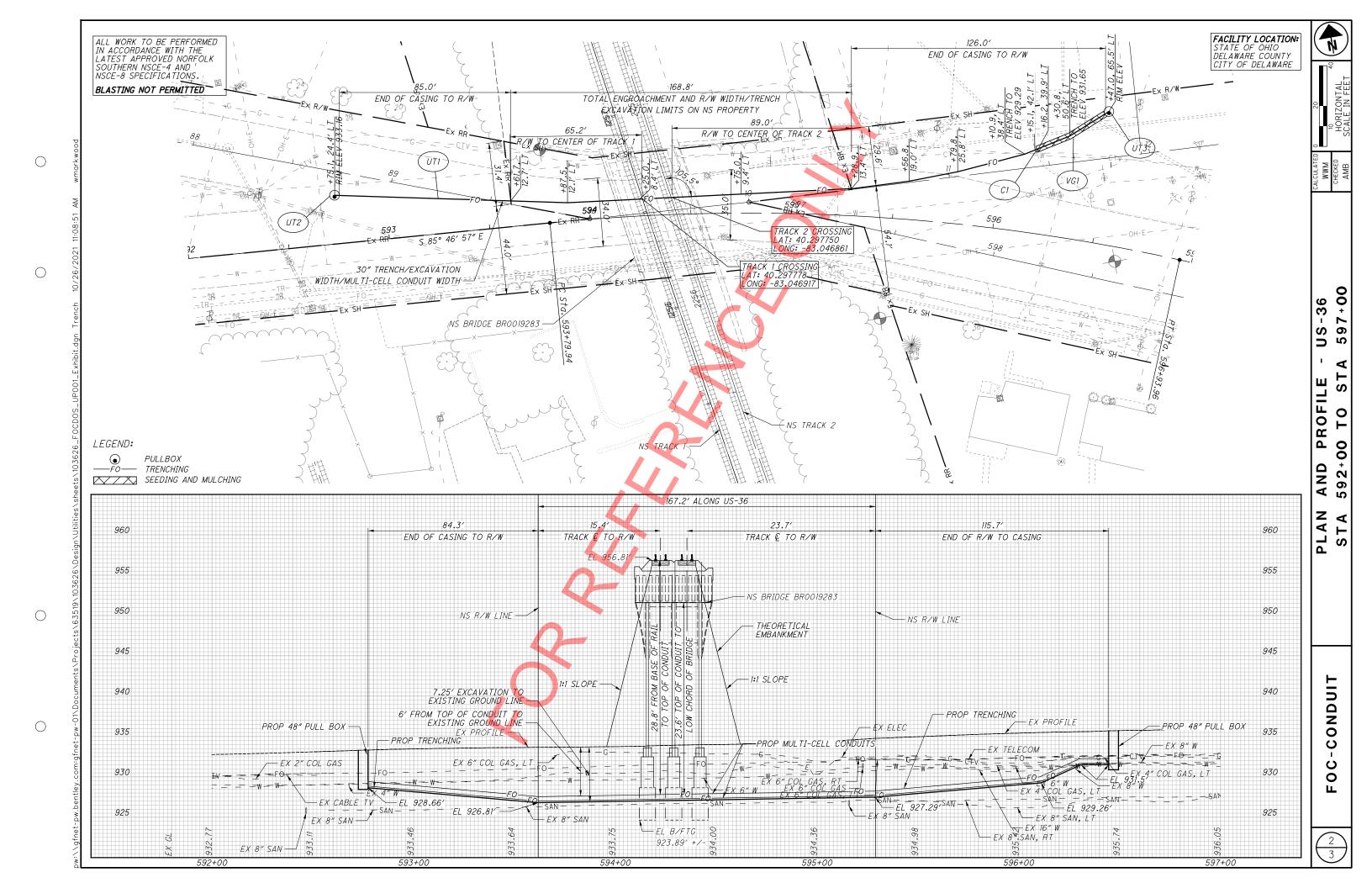
GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

Eric Dues, P.E., S.E. Bridge Design and Railroad Coordinator



PROFILE ALONG & NSRR TRACK 1





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FACILITY LOCATION: STATE OF OHIO DELAWARE COUNTY CITY OF DELAWARE

OF 12" TRENCH INSTALL WARNING TAPE
WITHIN LAST LIFT. (SEE NOTE 3) INSERT CONDUIT SPACER PROVIDING A 2" MIN. SEPARATION BETWEEN BACKFILL WITH FLOWABLE FILL (SEE NOTE 4) CONDUIT (SEE NOTE 2) - 4" MULTI-CELL CONDUIT (SEE NOTE 5) 2" min.

ALL WORK TO BE PERFORMED

LATEST APPROVED NORFOLK

IN ACCORDANCE WITH THE

SOUTHERN NSCE-4 AND NSCE-8 SPECIFICATIONS. BLASTING NOT PERMITTED

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PROPOSED TYPICAL SECTION - US-36 STA 592+75.05 TO STA 596+47.00

30" min.

#### NOTES:

- TRENCH DEPTH SHALL BE: 4.5' TO 7.25' FROM US-36 STA 592+75.1 TO STA 593+61.7
  - \*\*ENTER NSRR R/W\*\* 7.25' FROM US-36 STA 593+61.7 TO STA 595+28.9 \*\*EXIT NSRR R/W\*\*
  - 7.25' TO 5.5' FROM US-36 STA 595+28.9 TO STA 596+10.9 5.5' TO 3.75' FROM US-36 STA 596+10.9 TO STA 596+28.0. 3.75' FROM US-36 STA 596+28.0 TO STA 596+47.0
- 2. PROVIDE HIGH IMPACT CONDUIT SPACERS AT MINIMUM 10' SPACING. SPACERS ARE CONSIDERED INCIDENTAL TO THE CONDUIT ITEM AND WILL NOT BE PAID FOR SEPARATELY.
- 3. INSTALL A MIN 6" WIDE, 5 MIL DETECTABLE ORANGE WARNING TAPE BELOW SURFACE, (INCIDENTAL) FOR THE ENTIRE LENGTH OF THE PROJECT.
- 4. BACKFILL SHALL CONFORM TO ITEM 625 TRENCHING OVER BACKFILL SHALL CONFORM TO ITEM 625 - TRENCHING OVER PAVED AREA, AS PER PLAN:
  THIS ITEM SHALL COMPLY WITH ALL WORK AND STANDARDS PUT FORTH IN SECTION 625.13 OF ODOT CMS 2019. THIS ITEM WILL ALSO INCLUDE THE MATERIALS AND LABOR NEEDED FOR THE BACKFILL REQUIRED AFTER LAYING THE MULTI-CELL CONDUIT. THESE ITEMS INCLUDE ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 76-22M, ITEM 613 LOW STRENGTH MORTAR BACKFILL, AND ITEM 659 SEEDING AND MILLOHING AND MULCHING.
- 5. ONE MULTI-CELL CONDUIT SHALL BE DEDICATED TO EACH OF THE SIX TELECOMMUNICATIONS ENTITIES:
  -CONSOLIDATED COOPERATIVE / CITY OF DELAWARE (FIBER)
  - -EVERSTREAM (FIBER)
  - -FRONTIER COMMUNICATIONS (FIBER) -SPECTRUM (FIBER)

  - -SPECIRUM (FIBER)
    -VERIZON COMMUNICATIONS (FIBER)
    -WIDE OPEN WEST (FIBER)
    IT WILL BE THE RESPONSIBILITY OF EACH
    TELECOMMUNICATIONS COMPANY TO INSTALL THEIR FIBER IN
    THE MULTI-CELL CONDUITS, OBTAIN A RAILROAD OCCUPANY
    PERMIT, AS WELL AS DETERMINING THE FIBER COUNT.
  - 4" MULTI-CELL CONDUIT: TYPE 40 PVC MULTI-CELL 4.5" OD
  - 4.026" ID
  - WALL THICKNESS = 0.237"
  - 4 INNERDUCTS PER 4.5" OD CASING PIPE