

## APPLICATION AND AGREEMENT PROCESS

In order to better serve the needs of utilities, municipalities and other prospective occupants of its railroad network, Norfolk Southern Corporation has secured the services of AECOM (formerly known as DMJM HARRIS), a respected provider of engineering-related services, whose office is located in Philadelphia, PA. On Norfolk Southern's behalf, AECOM will receive and review pipe and wire applications, and prepare and execute license agreements in a timely manner. Applications can be found on our website, [www.nspipeandwire.com](http://www.nspipeandwire.com). Completed applications and requests for information should be submitted to AECOM as further described below.

### Right of Entry:

Entry on Norfolk Southern property for the purpose of conducting surveys, field inspections, soils examinations, or any other purposes associated with the design and construction of the proposed occupancy will require a proper entry permit prepared by Norfolk Southern. The applicant must pay the associated fees and execute the permit.

The issuance of an entry permit does not constitute authority to proceed with any construction. Construction cannot begin until Norfolk Southern executes a formal agreement, and the applicant receives permission, from the designated Norfolk Southern representative, to proceed with the work.

Right of Entry applications may be obtained on the Norfolk Southern website – [www.nscorp.com](http://www.nscorp.com) – and follow the “Real Estate” link and then the “Property Access” link. If you require further information regarding this process, you can contact the AECOM office at [NSUtilities@aecom.com](mailto:NSUtilities@aecom.com).

### Process:

- **No verbal authorization for construction will be provided.**
- Please note that we have relocated our Philadelphia Office. Application packages should be submitted to AECOM at the following address:

AECOM  
1700 Market Street  
16<sup>th</sup> Floor  
Philadelphia, PA 19103  
Attention: NS Pipe and Wire Administrator  
E-Mail: [NSUtilities@aecom.com](mailto:NSUtilities@aecom.com)

- Proposed plans, materials and construction will be reviewed within 30 days of receipt of a complete application package. The applicant will be advised of any additional information required or items not in compliance with Norfolk Southern standards. If revised plans are not received within 30 days after comments are provided, the activity will be automatically cancelled.
- If the proposed project complies with Norfolk Southern standards, a draft agreement will be prepared and mailed within the 30-day period.
- Revised plans will be reviewed within two weeks of receipt, and if determined to be acceptable, a draft agreement will be prepared and mailed within this period.
- Applicant (the party to the license agreement) will execute the license agreement and return the same to AECOM with check for appropriate license fees and insurance certificates as defined in the agreement (See Insurance Requirements). Draft agreements are valid for 60 days and activities will be automatically cancelled in the event an executed agreement is not returned, or an extension requested, within this period.



- Norfolk Southern will execute the license agreement and the fully executed agreement will be returned to applicant approximately one week after receipt of package from the applicant, provided that all the appropriate license fees and insurance requirements have been met.
- The return package will include the name and telephone number of the appropriate local Norfolk Southern construction representative(s) who must be contacted prior to any construction on, or entry onto, Norfolk Southern facilities.

**Under no circumstance shall any facilities be installed until the above steps have been completed, and Norfolk Southern's designated construction representative has been properly notified.**

#### **Application Package:**

- **Cover Letter:** Provide a brief description of the project purpose, objectives and background, or specific circumstances the Railway may need to consider when processing the application, including items such as:
  - End user of facility: provide (1) exact purpose of the facility (2) expected number of end users (3) nature of end user(s) (i.e., individuals, government agency, industry, etc.); if fewer than 10 individual end users, provide name, address and contact information of end user(s)
  - If the facility is required as a result of public highway or bridge construction: provide name and contact of project sponsor
  - If the facility is required to support Norfolk Southern facilities: provide name and contact of Norfolk Southern sponsor
  - If there have been previous understandings with Norfolk Southern representatives: provide copies of relevant correspondence, name and title of Railway contact and understanding with Railway
  - Track Ownership (i.e., industry owned or Railway owned)
- **Application Form:** Complete all questions on the enclosed form.
- **Location Map:** Provide a detailed location map indicating the proposed location of the facility, the railroad and local streets and highways.
- **Location Plan:** The railroad must have a permanent record of the facility location, based upon railroad mileposts and valuation map stationing and, if available, GPS latitude and longitude information. It is recognized that many applicants will not have access to this information. In order to assist the application process, the location plan should include the distance from a milepost marker or centerline of the nearest street grade crossing or bridge to the proposed facility.  
Applicants should also identify the AARDOT Number of the nearest public grade crossing. All public rail-highway crossings have a unique number assigned in a format such as 123 456B. A metal tag indicating the number is located on the crossbuck or flasher post at the crossing.
- **Plans and Specifications:** All packages shall have at least 3 copies of plans and a copy of the specifications. The plans shall follow the format and contain the data described in Norfolk Southern's specifications [NSCE-8](#) for underground facilities or [NSCE-4](#) for aerial facilities. The minimum requirement for all applications is a plan view, profile view (cross section), and a Pipe Data Sheet (pipelines only) or a Conduit Data Sheet (conduits only). All plans shall have a Plan Number and be dated.
  - The above statement also applies to revised plans. If a faxed copy of the plans was acceptable to the AECOM Contract Administrator or Engineer, at least 3 copies of revised plans shall be mailed to this AECOM office.
- **Photographs:** Photographs, although not mandatory, are highly encouraged to assist the plan review, and ensure quick approval. Digital photos in jpg format may be E-Mailed to [NSUtilities@aecom.com](mailto:NSUtilities@aecom.com). Photos should provide views of the railroad in both directions from the proposed facility, and views along the proposed alignment of the utility crossing.
- **Application and Processing Fees:** All applications will require a one-time, non-refundable, processing fee, **payable to AECOM**. Failure to provide the appropriate processing fee may delay processing. The fee schedule shall be:

Aerial Wire and Cable Facilities: **\$1,250**  
Underground Conduits for wires, FOC and cables: **\$1,650**  
Underground Pipes for water, sewer, gas, petroleum, etc: **\$2,100**  
Supplemental Agreements, Assignment Agreements: **\$300**

**Fee schedule valid through December 31, 2010**

- **License Fees: The application fee does not encompass charges imposed by Norfolk Southern for the utility license, insurance and other matters. Applicant may obtain an estimation of the applicable charges by corresponding with an AECOM representative.**

The time period to process an application is dependent upon the quality of the information submitted, and applicants are urged to carefully follow the suggested guidelines for submission.

**Requests for Information:**

Prospective applicants are encouraged to visit our website at [www.nspipeandwire.com](http://www.nspipeandwire.com) or request data via E-Mail at [NSUtilities@aecom.com](mailto:NSUtilities@aecom.com) to ensure that a response is promptly received.

**Railroad Right of Way Information:**

It is recommended that you obtain current property ownership information from local sources typically used for this purpose, such as County deeds. After receipt of an application, AECOM will verify and provide railroad right-of-way widths and parcel information for agreement preparation, but without any warranty (by AECOM or Norfolk Southern) as to their accuracy. If the right-of-way width is critical for plan development, please first submit an application, after which AECOM will coordinate final plan preparation with you.

**Application or Agreement Status Check:**

Complete application packages will be processed in the below typical time frames:

- Transverse Crossings: 30 days
- Longitudinal Occupancy over 300 feet: 3-4 months
- Facilities conveying flammable substances or environmentally sensitive material: 2-3 months
- Facilities that will be installed on an overhead structure specifically designed to carry utilities (such as a pipe bridge): 2-3 months
- Facilities under a railroad bridge: The specific design proposal may require Norfolk Southern's Structures Department to review and provide comment and information to assist with the development of the project. Applicants will be notified of time schedule to anticipate after receipt of the specific proposal.
- Complex Requests: All applications are given the same priority and all should receive a response within 30 days. However, complex requests or non-compliant requests require special attention and additional time. You will be notified if additional time will be required.

You will be contacted during this period if additional information or revised plans are required. If you would like to verify receipt of an application, or check on the status of an application, please submit an inquiry to [NSUtilities@aecom.com](mailto:NSUtilities@aecom.com)

**Maintenance of Existing Facilities:**

Entry on Railway property for the purpose of maintaining existing facilities requires advance written notice that shall include the following:

- Copy of the current agreement for the facility, including exhibits
- Detailed description of proposed work
- Evidence of insurance as required by Norfolk Southern's Director Risk Management.



- Written confirmation that you will pay Railway, within thirty (30) days after delivery of an invoice therefore, for all protection and inspection costs incurred by Railway, required in Railway's sole judgment, during any entry

It is recommended that you provide 30 days advance notice of intention to perform programmed maintenance. Emergency entry will be coordinated as may be reasonable under the circumstances.

**Any change to the character, capacity, use or location of the Facilities shall require submission of a new application, execution of a new agreement, and payment of all applicable fees.**

### **Insurance Requirements**

Norfolk Southern insurance requirements will be defined in the draft agreement. In general, each agreement will require:

1. Payment of a risk financing fee of \$1,000 per installation to add the project to Norfolk Southern's Master Railroad Protective Policy. This will satisfy the railroad protective liability insurance requirement in its entirety for the project.
2. A Certificate of Liability Insurance that evidences combined single limit minimum of \$1,000,000 per occurrence of general liability (note this may be achieved via an excess or umbrella policy).
  - a. The certificate shall name Norfolk Southern Railway Company, Three Commercial Place, Norfolk, VA 23510-2191 as the certificate holder. (NOTE: The draft agreement will define the exact name for the Railway as certificate holder.)
  - b. The certificate shall name the certificate holder as an additional insured

Insurance shall be returned to AECOM with the return of the executed draft agreements. In order to avoid delay to your projects, please forward insurance with the return of the draft agreement to AECOM as one package. Construction will not be authorized until all insurance requirements are satisfied.

**APPLICATION FOR PIPE OR WIRE OCCUPANCY**  
*(Please fill out questions 1-7 and include these pages with your application)*

Please answer all questions and return to:

**AECOM**  
1700 Market Street  
16<sup>th</sup> Floor  
Philadelphia, PA 19103  
(215) 735-0832  
Attn: NS Pipe and Wire Administrator

1) Legal Name and Address of Applicant (party to agreement)

Legal Name\*\*: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

\*\*Please ensure that the exact legal name is provided with no abbreviations. This name will be used for agreement preparation, as well as the information below.

2) Applicant (party to agreement) is a:

- Corporation – give state of formation: \_\_\_\_\_
- Limited Partnership – give state of formation: \_\_\_\_\_
- General Partnership – give state of formation: \_\_\_\_\_
- Sole Proprietorship – give state of formation: \_\_\_\_\_
- Individual
- Government Entity
- Other: \_\_\_\_\_

3) Name and Address of Applicant’s Representative:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

4) Location of Proposed Facility:

City/Municipality: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_  
Name of Closest Street Crossing of Railroad: \_\_\_\_\_  
Street Grade Crossing AARDOT #: \_\_\_\_\_  
GPS Coordinates: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Footage (\_\_\_\_\_) and direction (N/S/E/W) from Railroad Mile Post No. \_\_\_\_\_ or  
center of public Highway Crossing or Bridge \_\_\_\_\_  
(Name of Street)



5) Will Facility be Located Entirely Within Confines of a Public Right of Way?

( ) Yes \* ( ) No

\* If yes, provide conclusive evidence for verification in the form of a letter or memo from the appropriate Road Authority indicating that proposed installation is acceptable to the Road Authority

Street width: \_\_\_\_\_ Street Right of Way width: \_\_\_\_\_

Road Authority Responsible for Street Maintenance

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact: \_\_\_\_\_

Telephone: \_\_\_\_\_

6) Proposed Facility to be Installed is a:

( ) New facility ( ) Upgrade of an existing facility\*

\*If an upgrade, please identify and attach copy of current agreement for the facility.

7) Proposed Installation/Construction Date(s): \_\_\_\_\_

If application is approved, applicant agrees to reimburse the Railroad for any cost incurred by the Railroad incident to installation, maintenance, and/or supervision necessitated by this pipeline or wireline installation, and further agrees to assume all liability for accidents or injuries which arise as a result of this installation.

\_\_\_\_\_

Date

Signature



**Aerial Wire Lines or Cable Lines (Complete all Applicable Information)**

- a. Type of Proposed Installation:
  - i.  Transverse Crossing Only
  - ii.  Longitudinal (parallel to tracks) Occupancy Only
  - iii.  Longitudinal and Transverse Crossing(s)
  - iv.  Wire line in highway under railroad bridge
  - v.  Wire line on highway bridge over railroad
  
- b. Type of wire:  Cable TV  Telephone  Electric Power  Fiber Optic  Other – please specify: \_\_\_\_\_
  
- c. Will poles be located on Railroad Company’s right of way?
  - Yes  No
  
- d. Are the poles existing or new poles? Steel or wood poles?
  - Existing -  Steel or  Wood
  - New -  Steel or  Wood
  
- e. Will there be any guy wires on the Railroad right of way?
  - Yes, # of guy wires - \_\_\_\_\_  No
  
- f. Will wire line cross existing Railroad communication and/or signal lines?
  - Yes  No
  
- g. Minimum height of wire above top of rail at 65oF \_\_\_\_\_ (ft.)  
 Minimum height of wire above railroad communication and signal wires at 65oF \_\_\_\_\_ (ft.)
  
- h. Specification of Wire Line:
  - Gauge of Wire: \_\_\_\_\_
  - Total Number of Wires: \_\_\_\_\_
  - Material of Wire: \_\_\_\_\_
  - Maximum circuit voltage: \_\_\_\_\_
  - Total Number of Fibers or pairs in FOC: \_\_\_\_\_
  - Cable type and capacity: \_\_\_\_\_

All wire line applications shall include a Plan and Profile View of the proposed facility. See the NSCE-4 for the required format. Below is a suggested check-list for your plan development.

**Plan View (See NSCE-4 Specification, Plate I)**

- \_\_\_\_ All railroad tracks
- \_\_\_\_ Indicates distance (in feet) to Norfolk Southern Mile Post or Grade Crossing
- \_\_\_\_ Angle of Crossing relative to railroad track(s)
- \_\_\_\_ Dimensioned Property Lines
- \_\_\_\_ Location of Poles and distance to butt of pole to nearest railroad track centerline
- \_\_\_\_ Location of all existing railroad pole lines and all utility lines
- \_\_\_\_ Indicate span length across tracks from pole to pole
- \_\_\_\_ Location of Railroad pole lines or signal facilities
- \_\_\_\_ Location of any above ground utilities
- \_\_\_\_ If proposed wire line is within highway limits or in the vicinity of a grade crossing, location and type of grade crossing traffic control devices (Mast flashers, cantilever flashers, gates, etc.) and clearance from existing devices to proposed wire line



**Cross Section View (See NSCE-4 Specification, Plate II)**

- \_\_\_ All railroad tracks
- \_\_\_ Dimensioned Property Lines
- \_\_\_ Location of Poles and distance to butt of pole to nearest railroad track centerline
- \_\_\_ Vertical clearance from top of rail of all tracks to bottom of sag
- \_\_\_ Location of all existing railroad pole lines and all utility lines
- \_\_\_ Vertical clearance from existing railroad pole lines and proposed wire line
- \_\_\_ Indicate span length across tracks from pole to pole
- \_\_\_ If proposed wire line is within highway limits or in the vicinity of a grade crossing, location and type of grade crossing traffic control devices (Mast flashers, cantilever flashers, gates, etc.) and clearance from existing devices to proposed wire line

**Underground Wires and Conduits (Complete all Applicable Information)**

- a) Type of Proposed Installation:
  - i)  Transverse Crossing Only
  - ii)  Longitudinal (parallel to tracks) Occupancy Only
  - iii)  Longitudinal and Transverse Crossing(s)
  - iv)  Wire line in highway under railroad bridge
  - v)  Wire line on highway bridge over railroad
  
- b) Type of wire: (  ) Cable TV (  ) Telephone (  ) Electric Power (  ) Fiber Optic  
 (  ) Other (Specify): \_\_\_\_\_
  
- c) Specification of Wire Line:
  - Gauge of Wire: \_\_\_\_\_
  - Material of Wire: \_\_\_\_\_
  - Max. circuit voltage for Electric Power line: \_\_\_\_\_
  - Total Number of Fibers in FOC: \_\_\_\_\_
  - Total Number of Pairs in Telephone: \_\_\_\_\_
  - Cable type and capacity: \_\_\_\_\_
  
- d) Specification of Conduit (Encasement):  
 Please use the CONDUIT DATA SHEET on last page of this application.
  
- e) Will conduit be a casing pipe for multiple innerducts?  
 (  ) Yes\* (  ) No  
  
 \*If yes, provide a cross section of the casing pipe indicating all innerducts with the content of each innerduct clearly labeled. Spare ducts shall be clearly indicated. **See last page of this application for Conduit Data Sheet and an Example of a cross section.**
  
- f) Proposed method of installation (Check proposed method):  
**WET BORES OR WATER JETTING IS NOT PERMITTED.**
  - i)  Bore and jack (See Section 5.1.3 of NSCE-8)
  - ii)  Jacking (See Section 5.1.4 of NSCE-8)
  - iii)  Tunneling (Tunnel Liner Plate) (See Section 5.1.5 of NSCE-8)
  - iv)  Direction Boring/Horiz. Direction Drilling – Method A (See Section 5.1.6 of NSCE-8)
  - v)  Direction Boring/Horiz. Direction Drilling – Method B (See Section 5.1.6 of NSCE-8)
  - vi)  Open Cut (See Section 5.1.2 of NSCE-8). No guarantee is made that installation by open cut will be acceptable at all or within applicant’s expected timeframe regardless of the condition or usage of the tracks.
  - vii)  Other (Specify):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

All underground conduit applications must include a Conduit Data Sheet, Plan and Profile View of the proposed facility. See the NSCE-4 and NSCE-8 for the required format. Below is a suggested check-list for your plan development.

**Conduit Data Sheet** (blank copy attached)

**Plan View of Crossing** (See NSCE-8 Specification Plate II, check blanks to verify complete plans)

- All railroad tracks, including distance to any turnouts from proposed conduit
- Indicates distance (in feet) to Norfolk Southern Mile Post or Grade Crossing



- \_\_\_ Angle of Crossing relative to railroad track(s)
- \_\_\_ Dimensioned Property Lines
- \_\_\_ Location of Signs (preferably located at edge of Property or Right of Way Lines)
- \_\_\_ Location of Railroad pole lines or signal facilities
- \_\_\_ Location of any above or below ground utilities
- \_\_\_ Location of any fiber-optic cables parallel to tracks
- \_\_\_ Conduit casing pipe length
- \_\_\_ If proposed conduit is within highway limits, show the location and type of grade crossing traffic control devices (Mast flashers, cantilever flashers, gates, etc.)
- \_\_\_ Location of launching and receiving pits

**Profile View of Crossing** (See NSCE-8 Specification Plate III)

- \_\_\_ Profile of ground above crossing
- \_\_\_ Dimensioned Property Lines
- \_\_\_ Theoretical Railroad embankment lines (see NSCE-8, Section 4.3.1.F)
- \_\_\_ Proposed location and elevations of launching and receiving pits
- \_\_\_ Casing pipe length
- \_\_\_ Bottom of rail elevation
- \_\_\_ Depth of cover between bottom of rail and top of conduit or casing pipe
- \_\_\_ Location of and the minimum depth of cover from ground line to top of conduit or casing pipe on right of way (such as ditches)

**Pipeline (Complete all Applicable Information)**

- a) Type of Proposed Installation:
  - i)  Transverse Crossing Only
  - ii)  Longitudinal Occupancy Only
  - iii)  Longitudinal and Transverse Crossing(s)
  - iv)  Pipeline in highway under railroad bridge
  - v)  Pipeline on highway bridge over railroad
  - vi)  Pipeline bridge over railroad
- b) Material to be conveyed: \_\_\_\_\_
- c) Diameter of carrier pipe: \_\_\_\_\_
- d) Diameter of casing pipe: \_\_\_\_\_
- e) Proposed method of installation (Check proposed method)
  - i)  Bore and jack (See Section 5.1.3 of NSCE-8)
  - ii)  Jacking (See Section 5.1.4 of NSCE-8)
  - iii)  Tunneling (Tunnel Liner Plate) (See Section 5.1.5 of NSCE-8)
  - iv)  Direction Boring/Horiz. Direction Drilling – Method A (See Section 5.1.6 of NSCE-8)
  - v)  Direction Boring/Horiz. Direction Drilling – Method B (See Section 5.1.6 of NSCE-8)
  - vi)  Open Cut (See Section 5.1.2 of NSCE-8). No guarantee is made that installation by open cut will be acceptable at all or within applicant’s expected timeframe regardless of the condition or usage of the tracks.
  - vii)  Other (Specify):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

All proposed transverse pipeline crossing applications shall include the following:

**Pipe Data Sheet (blank copy attached)**

**Plan View of Crossing (See NSCE-8 Specification Plate II, below is a suggested check-list for your plan development)**

- All railroad tracks, including distance to any turnouts from proposed pipeline
- Indicates distance (in feet) to Norfolk Southern Mile Post or Grade Crossing
- Angle of Crossing relative to railroad track(s)
- Dimensioned Property Lines
- Location of Valves (if required by NSCE-8)
- Location of Vents (if required by NSCE-8)
- Location of Signs (preferably located at edge of Property or Right of Way Lines)
- Location of Railroad pole lines or signal facilities
- Location of any above or below ground utilities
- Location of any fiber-optic cables parallel to tracks
- If proposed pipeline is within highway limits, show the location and type of grade crossing traffic control devices (Mast flashers, cantilever flashers, gates, etc.)
- Casing pipe length
- Location of launching and receiving pits

**Profile View of Crossing (See NSCE-8 Specification Plate III, below is a suggested check-list for your plan development)**

- Profile of ground above crossing
- Distance to Valves (if required by NSCE-8)
- Distance to Vents and height above ground (if required by NSCE-8)
- Distance to Signs
- All known property lines



- \_\_\_\_\_ Theoretical Railroad embankment lines
- \_\_\_\_\_ Proposed location and elevations of launching and receiving pits
- \_\_\_\_\_ Casing pipe length
- \_\_\_\_\_ Bottom of rail elevation
- \_\_\_\_\_ Depth of cover between bottom of rail and top of casing pipe (or carrier pipe if casing pipe not required)
- \_\_\_\_\_ Location of and the minimum depth of cover from ground line to top of casing pipe on right of way (such as ditches)

**General Notes**

All plans shall include the following General Notes:

Contractor shall follow all requirements of Norfolk Southern's NSCE-8 Specifications

Pipe Line and Crossing to be installed and maintained in accordance with last approved AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION Specifications for Pipelines Conveying Flammable and Non-flammable Substances

Blasting Not Permitted

**PIPE DATA SHEET**

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED		
NORMAL OPERATING PRESSURE		
NOMINAL SIZE OF PIPE		
OUTSIDE DIAMETER		
INSIDE DIAMETER		
WALL THICKNESS		
WEIGHT PER FOOT		
MATERIAL		
PROCESS OF MANUFACTURE		
SPECIFICATION		
GRADE OR CLASS		
TEST PRESSURE		
TYPE OF JOINT		
TYPE OF COATING		
DETAILS OF CATHODIC PROTECTION		
DETAILS OF SEALS OR PROTECTION AT END OF CASING		
METHOD OF INSTALLATION		
CHARACTER OF SUBSURFACE MATERIAL		
APPROXIMATE GROUND WATER LEVEL		
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS		

**CONDUIT DATA SHEET**  
(For crossings and longitudinal occupancy)

	<b>CONDUIT / CASING PIPE</b>
NOMINAL SIZE OF PIPE	
MATERIAL	
OUTSIDE DIAMETER	
INSIDE DIAMETER	
WALL THICKNESS - <b>must be at least 0.188"</b>	
TYPE OF COATING	
METHOD OF INSTALLATION*	

\* - Please specify your proposed method of installation and **clearly** indicate the entry and exit points (especially for Directional Boring Method "A"). As per the NSCE-8, the following are approved methods for installing conduits or casing pipes for wirelines:

- \_\_\_ Open Cut (Section 5.1.2)
- \_\_\_ Jack & Bore (Section 5.1.3)
- \_\_\_ Directional Boring Method "A" (Section 5.1.6) – no pits required; **must have at least 10' depth**
- \_\_\_ Directional Boring Method "B" (Section 5.1.6) – pits required, but can only be used for casing pipes (conduits) **6 inches or less.**

**MULTIPLE INNERDUCTS**

**NUMBER OF INNERDUCTS WITHIN CASING PIPE: \_\_\_\_\_**

- 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 that.**

