

ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information – Incomplete forms will be returned)

Contact Information:

Date: July 16, 2018
Originator: **Ed Cashman**
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Standard Plans:

Index Number: **630-001**
Sheet Number (s): ALL
Index Title: Conduit Installation Details

Summary of the changes:

All Sheets: Reorganized; Updated Notes.

Sheet 2: Deleted FIGURE A-Pullbox Entry Of Conduit Under Sidewalks.

Commentary / Background:

.

Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes | No | |
|-------------------------------------|-------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Other Standard Plans – Ed Cashman |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

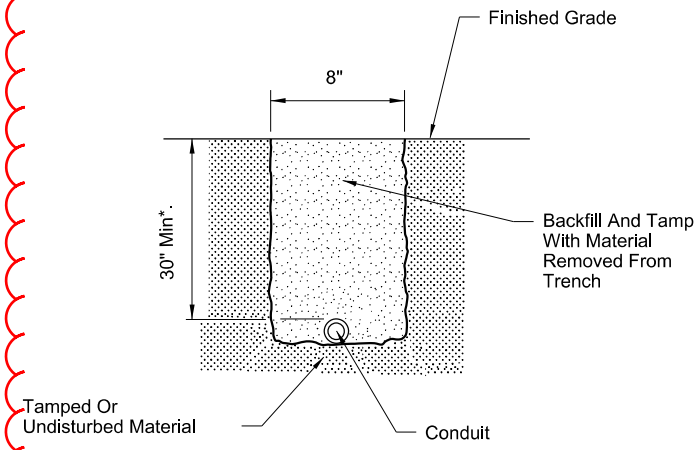
Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes | N/A | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Proposed Standard Plan Instructions (SPI) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Support Documents |

Implementation:

- Design Bulletin (Interim) DCE Memo Program Mgmt. Bulletin FY-Standard Plans (Next Release)

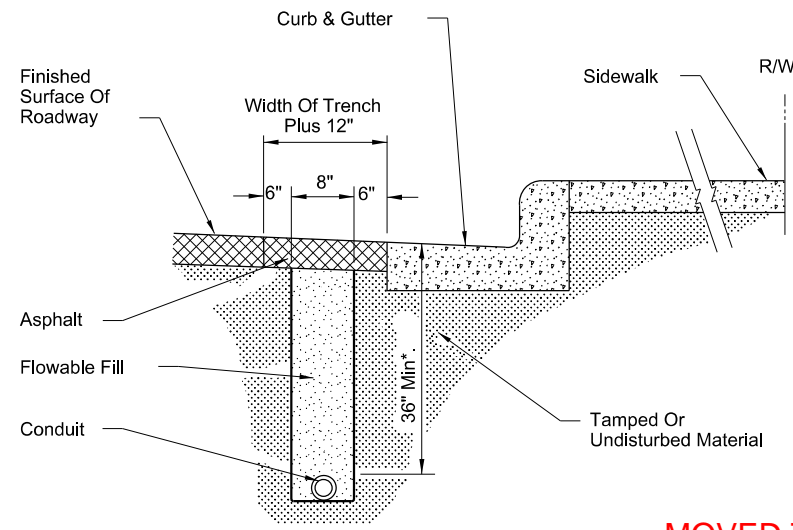
Contact the Roadway Design Office for assistance in completing this form



FOR USE IN AREAS NOT EXPOSED TO VEHICULAR TRAFFIC

FIGURE A

- ~~Notes:~~
- ~~1. Sidewalk patches to match existing joints.~~
 - ~~2. Entire sidewalk slab must be replaced when specified in the plans.~~
 - ~~3. Backfill and tamp with material from trench except at driveways. At driveways, backfill a length of trench within the driveway entirely with Flowable Fill.~~

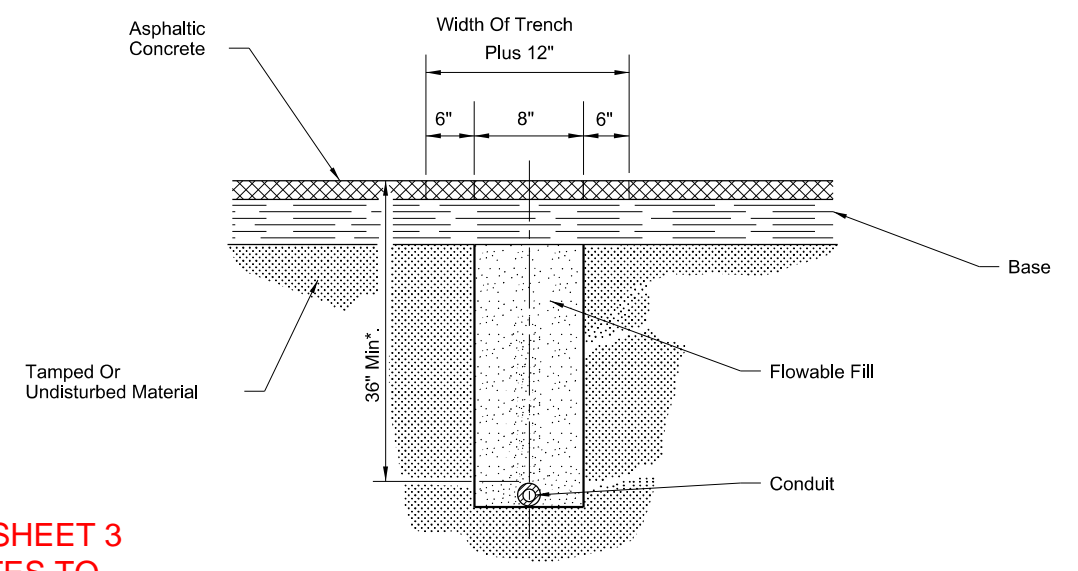


FOR USE IN ASPHALT ROADWAY ADJACENT TO GUTTER WHEN PLACEMENT OUTSIDE OF THE PAVEMENT IS NOT FEASIBLE.

FIGURE B

- ~~Notes:~~
- ~~1. Trench not to be open more than 250' at a time when construction area is subject to vehicular or pedestrian traffic.~~
 - ~~2. Asphalt to be sawcut to leave neat lines at the pavement cut.~~
 - ~~3. See note 3 Figure C.~~

MOVED TO SHEET 3
MOVED NOTES TO
GENERAL NOTES



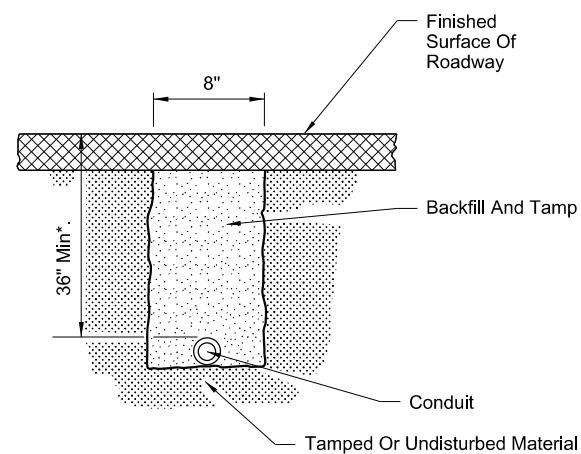
FOR USE IN INSTALLING CONDUIT UNDER EXISTING ASPHALT PAVEMENT NOT ADJACENT TO GUTTER WHEN JACKING OR DIRECT BORING IS NOT FEASIBLE.

FIGURE C

- ~~Note:~~
- ~~1. Rigid conduit must be used when jacking under existing pavement at 36" minimum depth.~~
 - ~~2. Asphalt to be sawcut at the edges of the trench.~~
 - ~~3. The removal and replacement of the additional pavement width (6") will not be required when the trench can be constructed without disturbing the asphalt surface on either side.~~

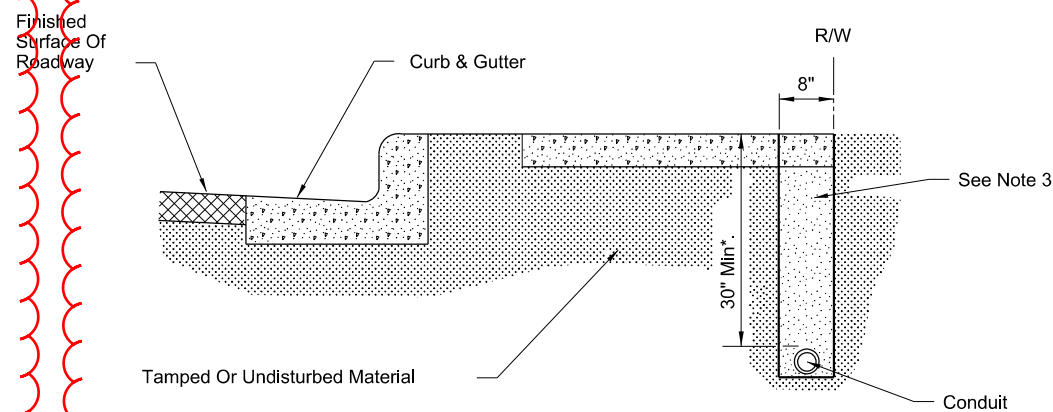
*May be adjusted due to field conditions upon approval of project engineer.

MOVED TO SHEET 2



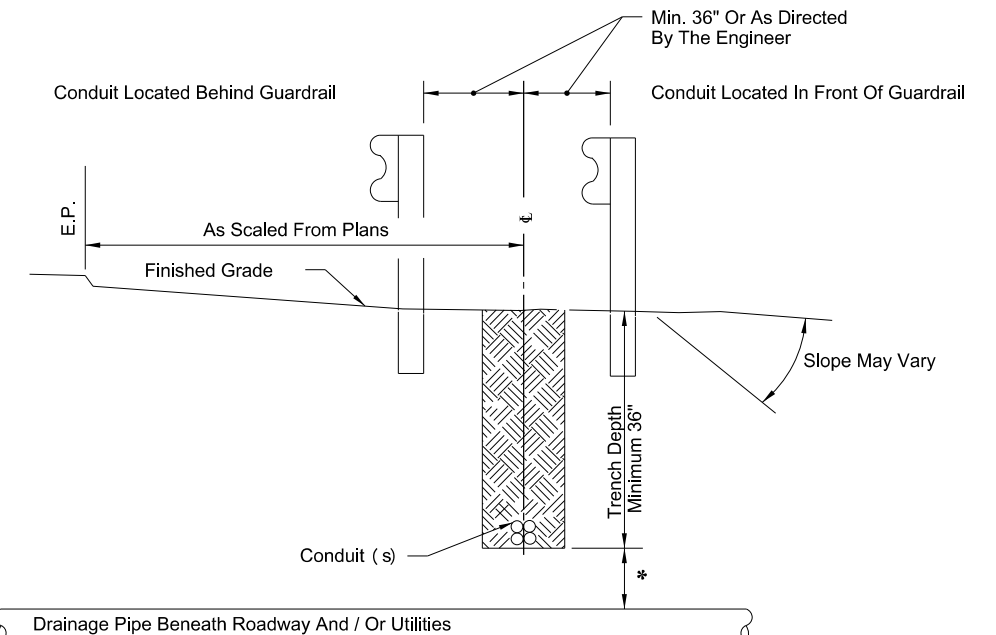
FOR USE INSTALLING CONDUIT UNDER A NEW ROADWAY PRIOR TO INSTALLATION OF BASE AND PAVEMENT

FIGURE D



FOR USE IN INSTALLING CONDUIT UNDER SIDEWALK

FIGURE E



* Maintain 12" Minimum Vertical Clearance When Crossing Over Pipe And / Or Utilities. If Minimum Vertical Clearance Cannot Be Maintained, Then Conduit Is To Be Routed Under Pipe Maintaining 12" Minimum Vertical Clearance.

FIGURE F

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LAST REVISION	DESCRIPTION	DATE
11/01/17		
		11/01/18

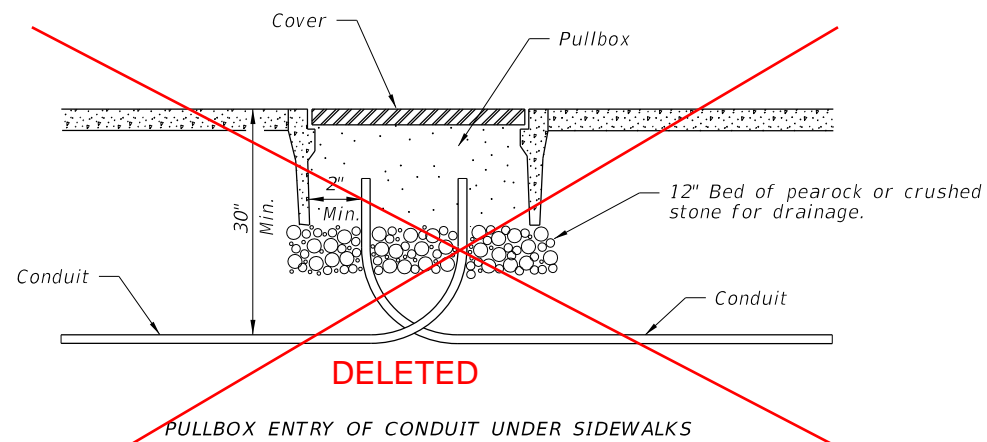


FY 2018-19
STANDARD PLANS

CONDUIT INSTALLATION DETAILS

INDEX
630-001

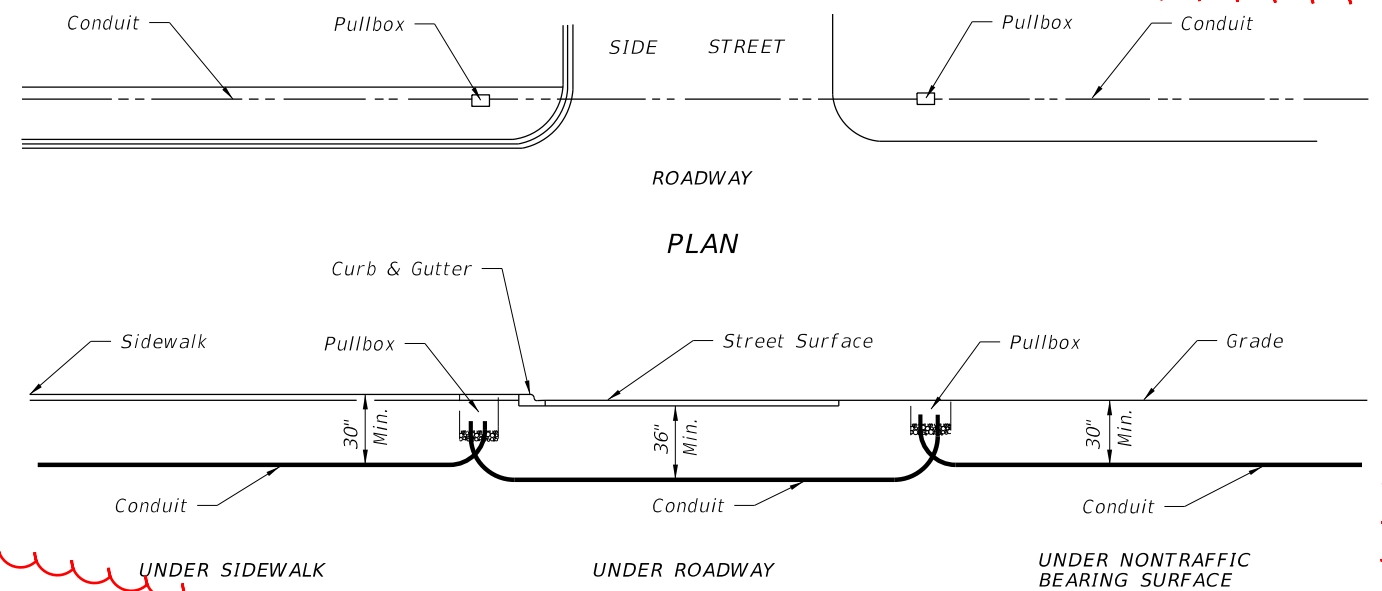
SHEET
1 of 2



DELETED

PULLBOX ENTRY OF CONDUIT UNDER SIDEWALKS

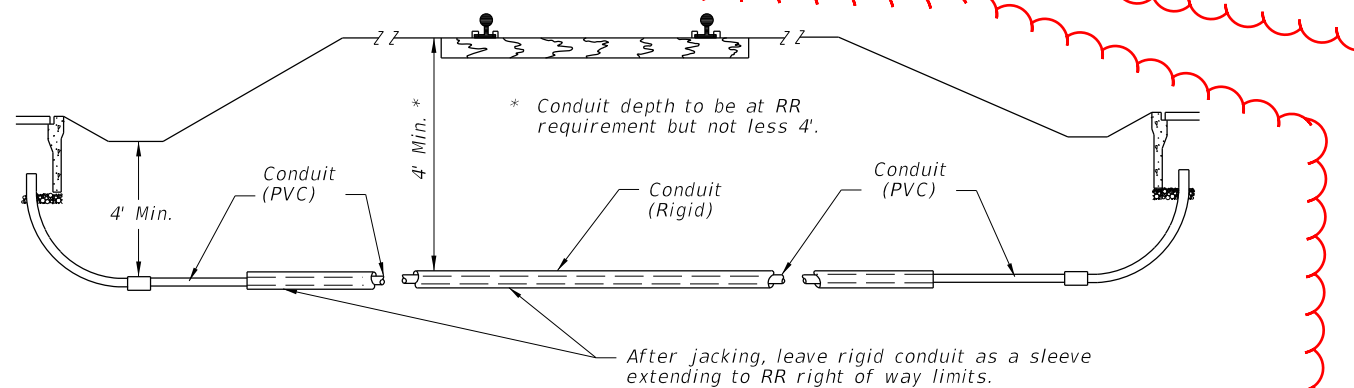
FIGURE A



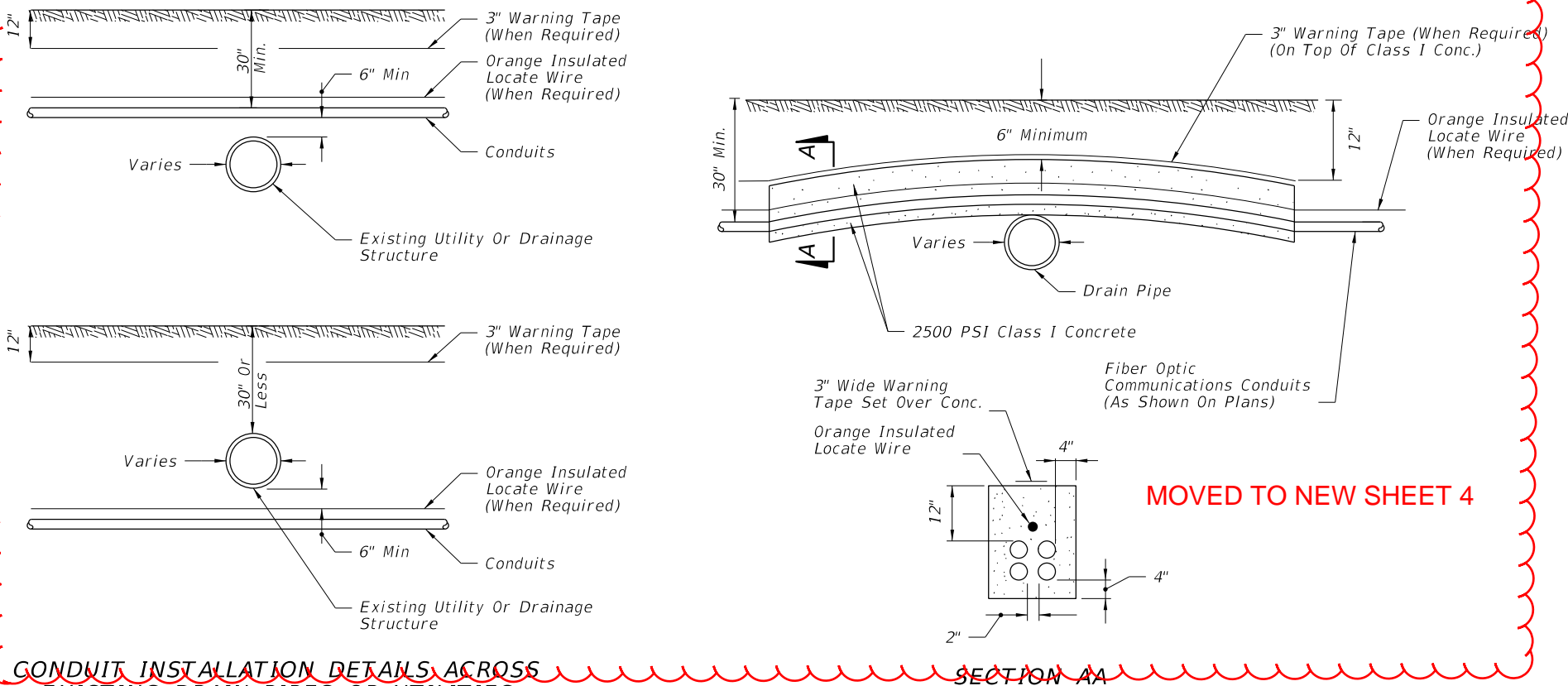
SECTION
FIGURE B

MOVED TO SHEET 1

FIGURE C
FOR USE UNDER RAILROADS



Note:
Ends of conduit shall be sealed in accordance with Section 630 of the Standard Specifications for Road and Bridge Construction.



MOVED TO NEW SHEET 4

GENERAL NOTES:

1. The contractor, with approval from the Engineer, may adjust the final burial depth of the conduit(s) in order to transverse nonmovable object conflicts.
2. Backfill with excavated material and compact the soil until firm and unyielding. Remove rock and debris from backfill material.
3. Where conduits are to be installed over existing underground structures (e.g., drain pipes or utility lines) which are less than 30" deep, the contractor shall encase the conduit in 2500 PSI Class I concrete for the entire length of conduit that is installed at a depth of less than 30".
4. If the amount of cover over the encasement is less than 6", the contractor shall install the conduit to pass below the underground structures (e.g., drain pipes).

CONDUIT INSTALLATION DETAILS ACROSS EXISTING DRAIN PIPES OR UTILITIES

SECTION AA

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LAST REVISION	DESCRIPTION:
11/01/17	11/01/18



FY 2018-19
STANDARD PLANS

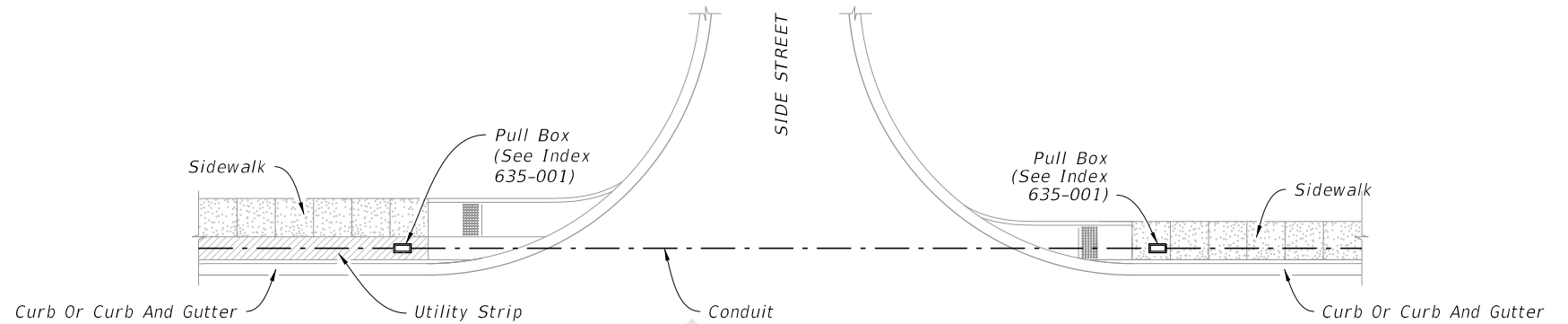
CONDUIT INSTALLATION DETAILS

INDEX
630-001

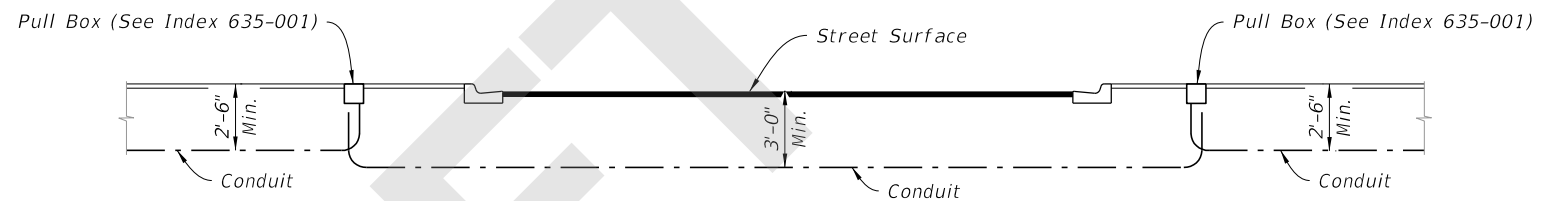
SHEET
2 of 2

GENERAL NOTES:

1. Install conduit in accordance with Specification 630.
7. When installing conduit under sidewalk by open trench, replace the entire sidewalk slab.
3. Trench not to be open more than 250' at a time when construction area is subject to vehicular or pedestrian traffic.
4. Sawcut asphalt at the edges of the trench to leave neat lines.

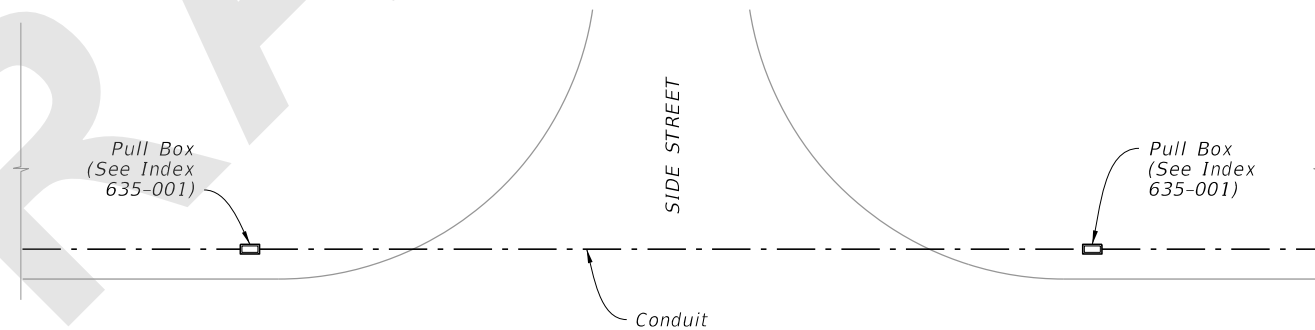


PLAN

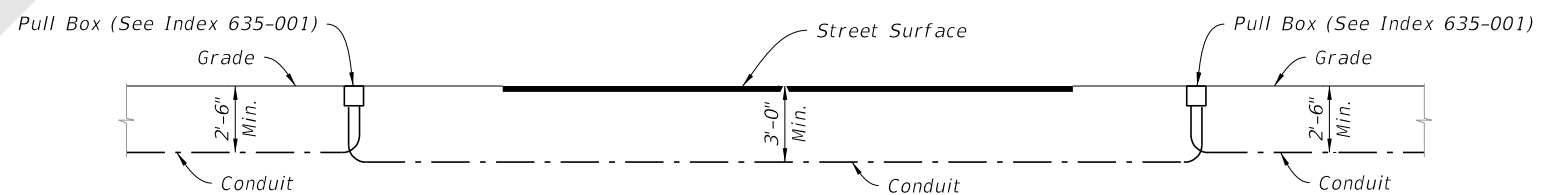


ELEVATION

=====**CURB AND GUTTER**=====




PLAN

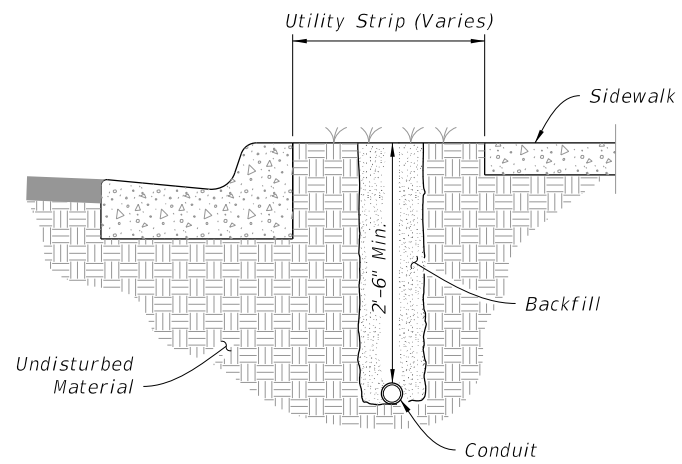


ELEVATION

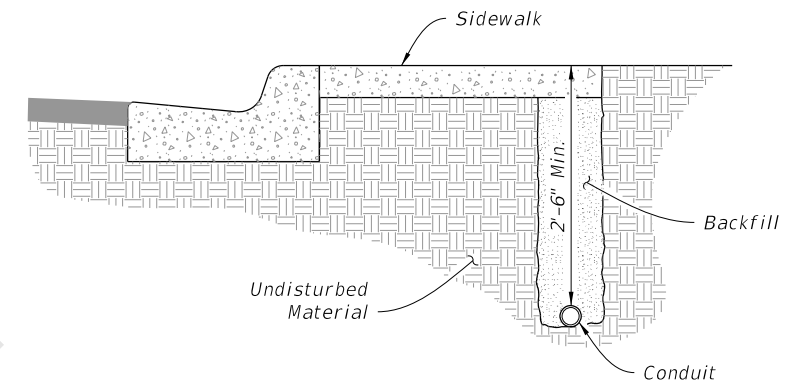
=====**FLUSH SHOULDER**=====

8/14/2018 2:44:39 PM

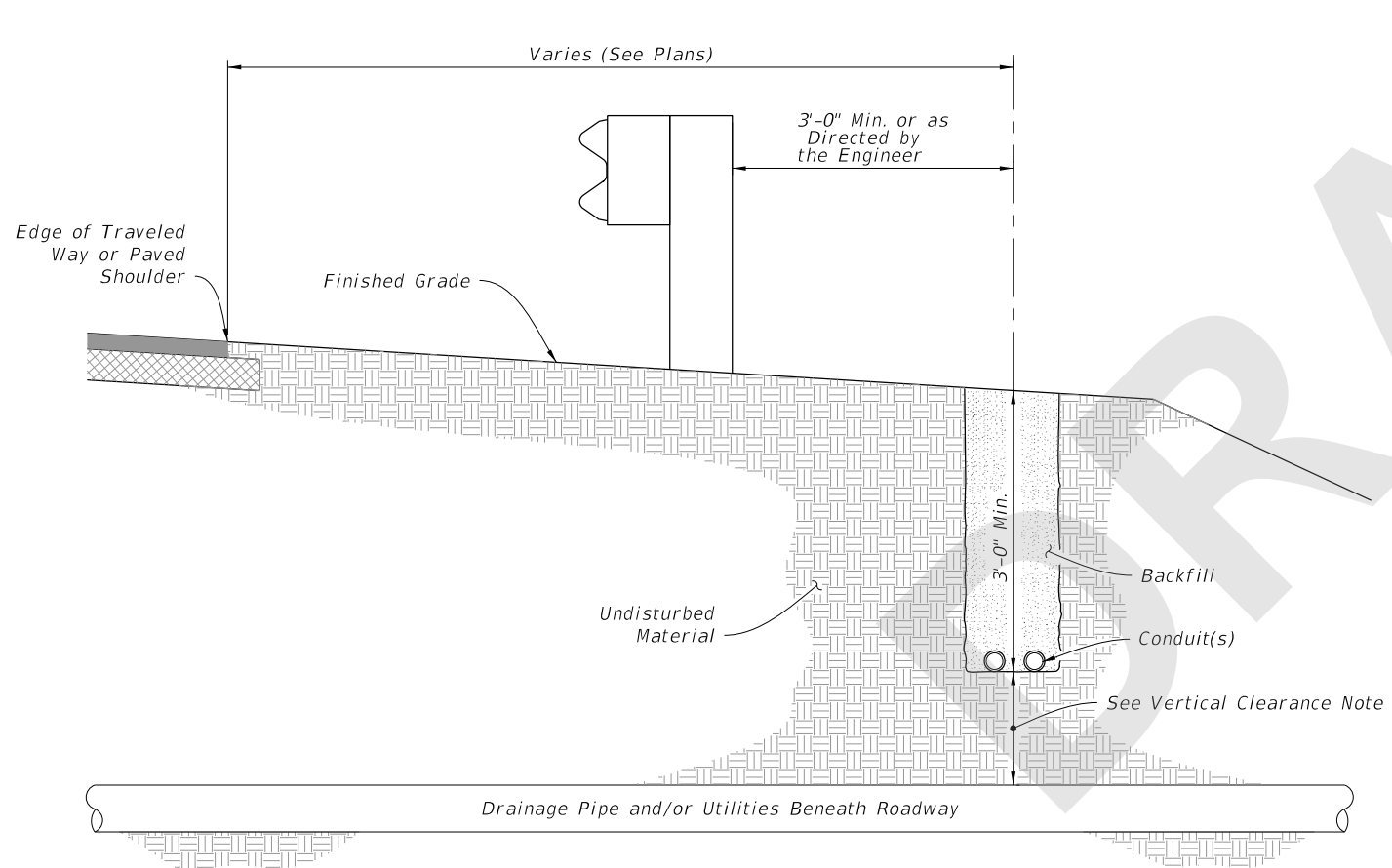
LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	CONDUIT INSTALLATION DETAILS	INDEX 630-001	SHEET 1 of 4
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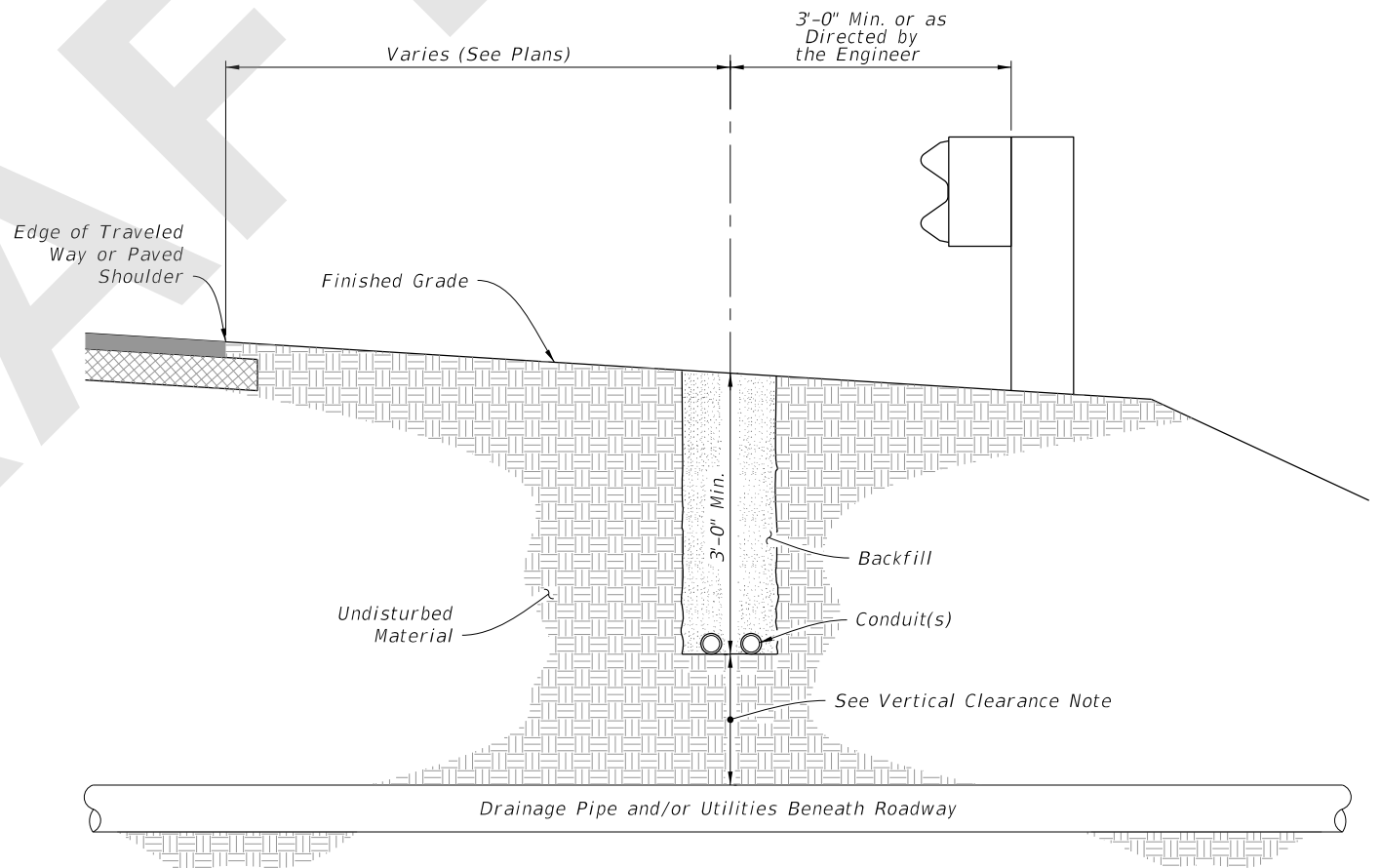
PLACEMENT WITHIN THE UTILITY STRIP



PLACEMENT UNDER SIDEWALK



PLACEMENT BEHIND GUARDRAIL




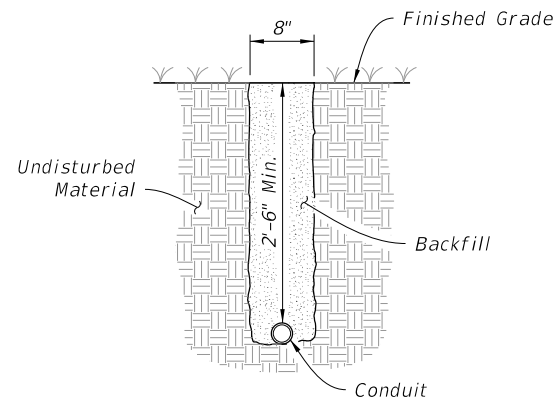
PLACEMENT IN FRONT OF GUARDRAIL

VERTICAL CLEARANCE NOTE:

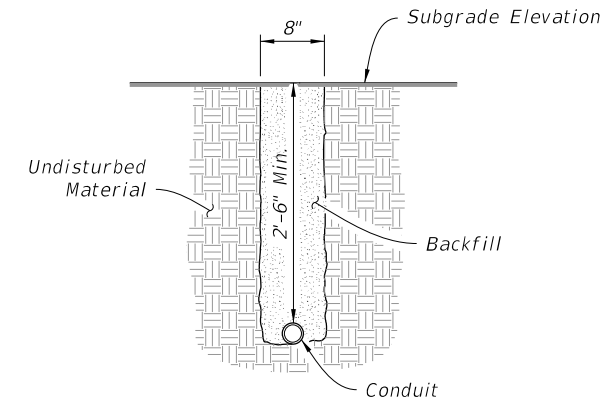
Maintain 1'-0" minimum vertical clearance when crossing over pipe and or utilities. If minimum vertical clearance cannot be maintained, conduit is to be routed under pipe maintaining 1'-0" minimum vertical clearance.

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LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	CONDUIT INSTALLATION DETAILS	INDEX 630-001	SHEET 2 of 4
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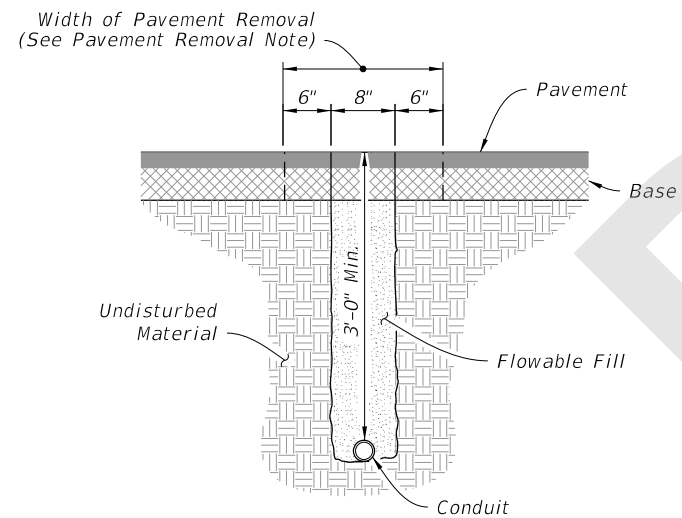
PLACEMENT NOT EXPOSED
TO VEHICULAR TRAFFIC



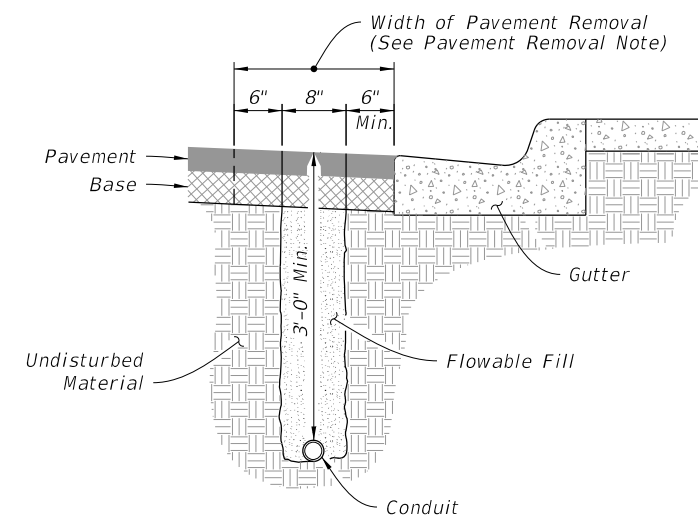
PLACEMENT UNDER NEW ROADWAY
PRIOR TO INSTALLATION OF
BASE AND PAVEMENT

NOTES:

1. Pavement Removal: The removal and replacement of the additional pavement width (i.e., 6" Width either side of trench) will not be required when the trench can be constructed without disturbing the asphalt surface on either side.
2. Placement Under Existing Pavement: Place conduit prior to installation of base and pavement, unless otherwise shown in the Plans or approved by the Engineer.



PLACEMENT UNDER EXISTING PAVEMENT
NOT ADJACENT TO GUTTER



PLACEMENT UNDER EXISTING PAVEMENT
ADJACENT TO GUTTER

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LAST REVISION 11/01/18	REVISION	DESCRIPTION:
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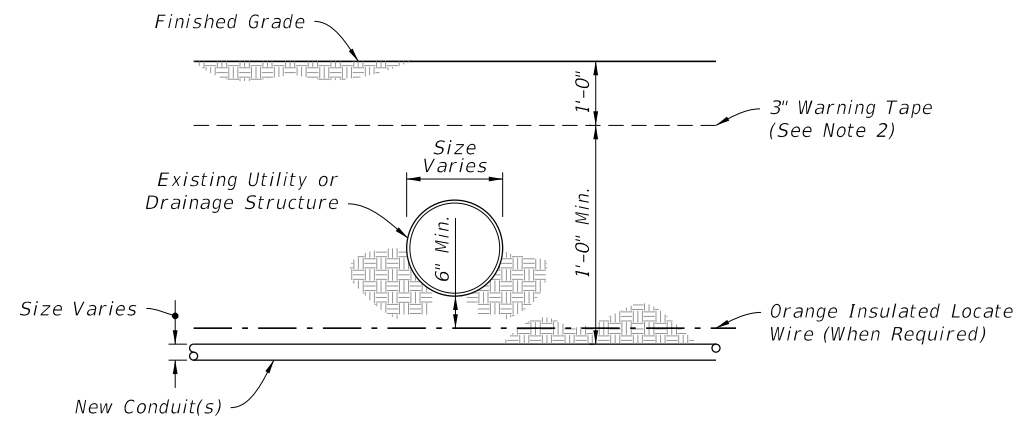


FY 2019-20
STANDARD PLANS

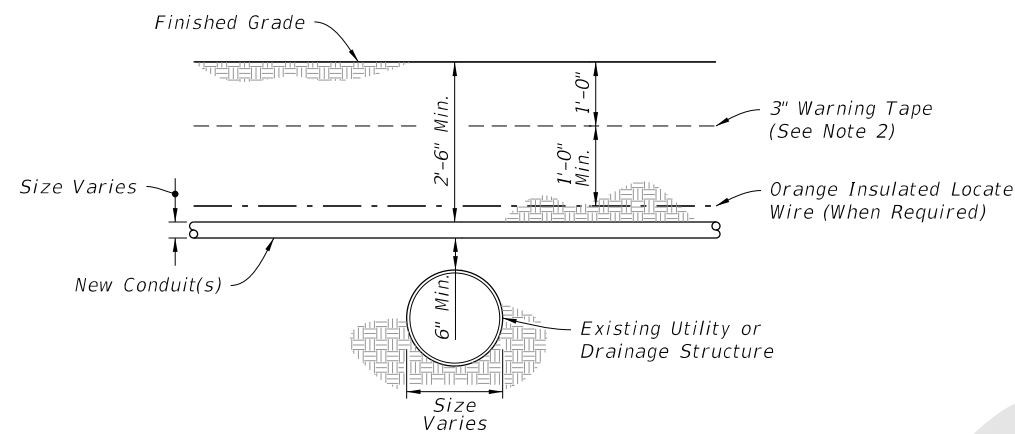
CONDUIT INSTALLATION DETAILS

INDEX
630-001

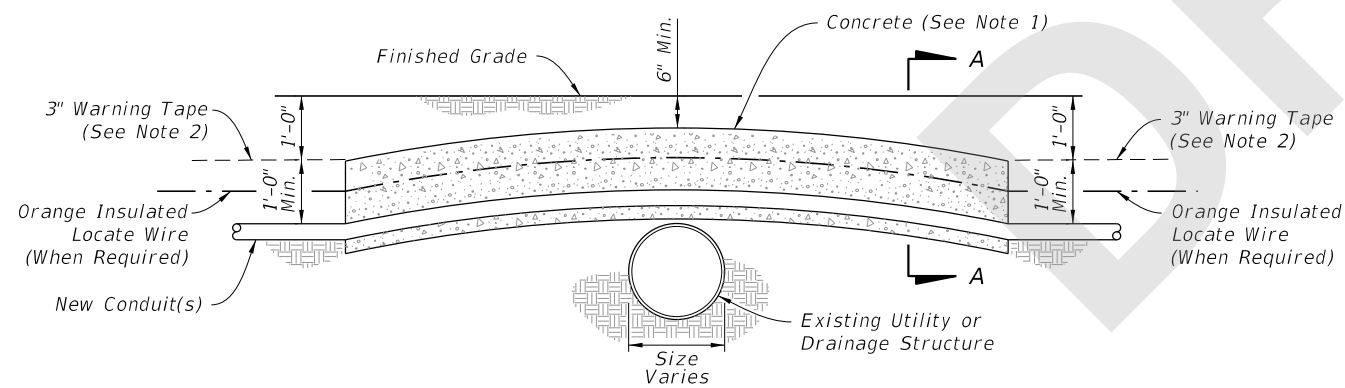
SHEET
3 of 4



BELOW EXISTING

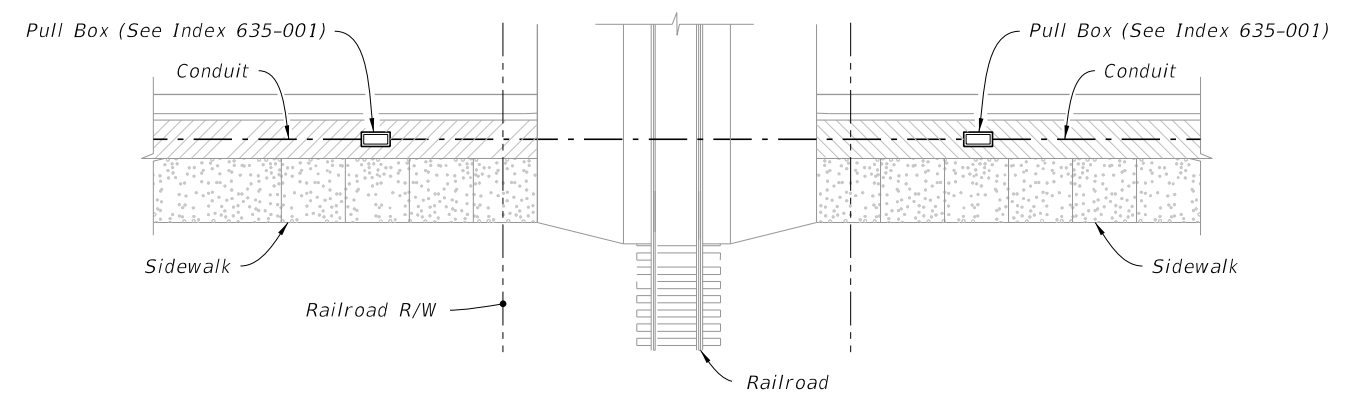


ABOVE EXISTING - DEPTH 2'-6" OR GREATER

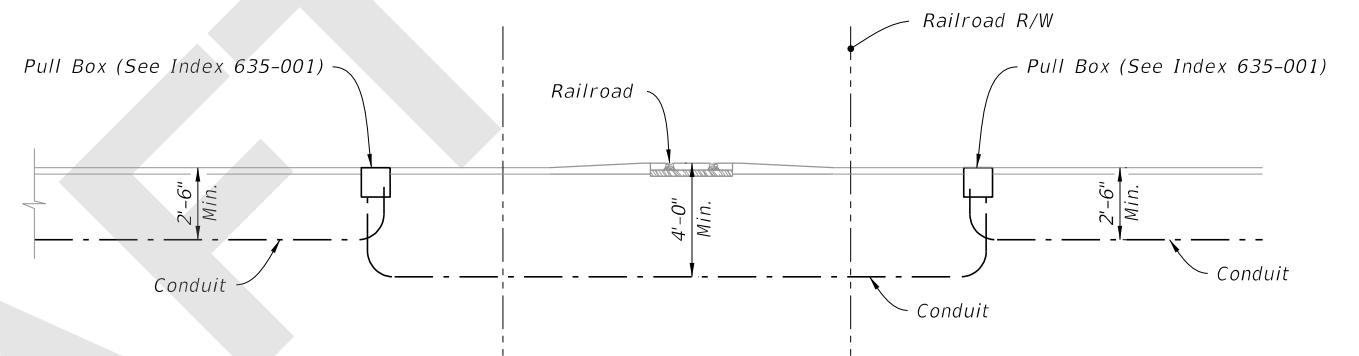


ABOVE EXISTING - DEPTH 2'-6" OR LESS

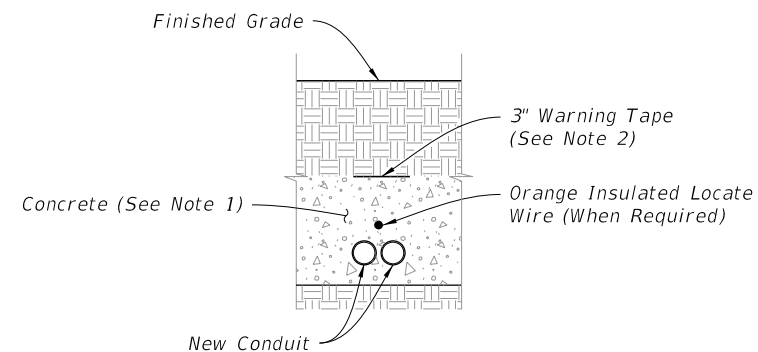
PLACEMENT ACROSS EXISTING DRAINAGE PIPES OR UTILITIES



PLAN



PLACEMENT UNDER RAILROAD



SECTION A-A

NOTES:

1. Where conduits are to be installed over existing underground structures (e.g., drainage pipes or utility lines) which are less than 2'-6" deep, encase the conduit in Class NS concrete for the entire length of conduit that is installed at a depth of less than 2'-6".
2. Place 3" Warning Tape when new conduit is installed at a depth of 1'-6" or greater, and the new conduit is not encased in concrete.

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LAST REVISION 11/01/18	DESCRIPTION:
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FY 2019-20
STANDARD PLANS

CONDUIT INSTALLATION DETAILS

INDEX
630-001

SHEET
4 of 4