

## PROJECT DESCRIPTION

INSTALLING FIBER OPTIC CABLE VIA SHALLOW TRENCHING & DIRECTIONAL BORE METHODS

## PROJECT INFORMATION

APPLICANT:

GOOGLE FIBER GEORGIA, LLC  
10 10th St, Atlanta, GA 30309

## HUT INFORMATION

PATCH PANEL	PP01
RELAY RACK	RR203
PORT ASSIGNMENTS	PORT 354-355

## SERVICEABLE UNITS

SINGLE FAMILY UNITS	91
SINGLE BUSINESS UNITS	1
ROE UNITS CONTAINED	0
MULTI-DWELLING UNITS	6
MULTI-TENANT UNITS	0
LARGE COMMERCIAL UNITS	0
VACANT LOTS	2
RESERVED DROPS	4

## GOOGLE FIBER CONTACTS

ENGINEERING:

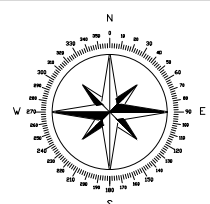
KIANDRE CHAMBERS - (629) 888-2119  
kiandrec@google.com  
TECHNICAL OPERATIONS MANAGER

CONSTRUCTION:

EMMANUEL UCHE-ABBA - (404) 618-1297  
eucheabba@google.com  
TECHNICAL OPERATIONS MANAGER -  
CONSTRUCTION OPS

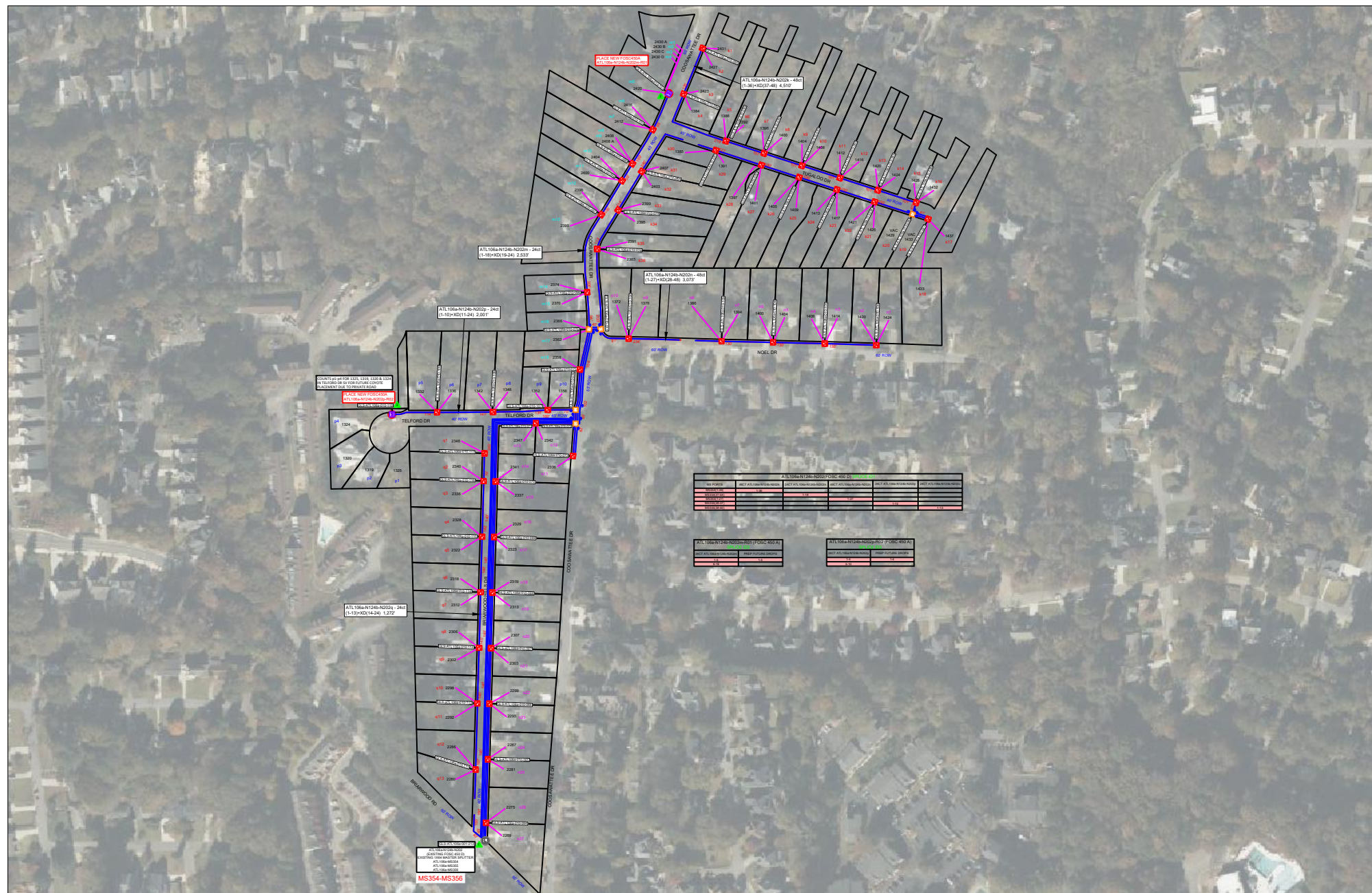


KNOW WHAT'S BELOW  
CALL BEFORE YOU DIG



## PERMIT ATL106-010 PHASE 3 R000

LOCAL ROADS	BRIARWOOD RD, BRIARWOOD HILLS DR, TELFORD DR, COOSAWATTEE DR, NOEL DR, TUGALOO DR
STATE ROADS	N/A
RR ROADS	N/A
SPECIAL ROADS	N/A



## SCOPE OF WORK

PROJECT	ATL106-010 PH 3 R000
JURISDICTION	BROOKHAVEN
HHP	98
RUNNING LINE	6,555'

## NOTES

1. PLACE 35' SLACK IN ALL SMALL, EXTRA SMALL, LARGE, EXTRA LARGE VAULTS.
  2. PLACE 35' SLACK IN CARSON VAULTS ONLY FOR CABLES LEAVING DROPS
  3. LABEL AND TEST ALL FIBERS PER GFI GUIDELINES.
  4. ALL FIBER FOOTAGE DEPICTED INCLUDES LENGTH FROM END TO END (NO SLACK).
  5. ALL FIBER EQUIPMENT SCALE HAS BEEN ENLARGED TO HELP CONSTRUCTION TEAMS IDENTIFY PLACEMENT LOCATIONS.
- \* MAINTENANCE WINDOW WILL BE REQUIRED PRIOR TO SPLICING INTO DF FIBERS.
  - \* PLEASE CONTACT TAYLOR HERRING AT [herringt@google.com](mailto:herringt@google.com) TO SCHEDULE.
  - \* CONTACT TAYLOR HERRING TO COORDINATE DF FIBER TESTING FOR FIBERS USED AND TO ARRANGE PRELIMINARY REDLIGHT TO VERIFY FIBERS TO BE SPLICED & OLT PON PORT ACTIVATION BY BLUE STREAM SIMULTANEOUSLY.

## PACKAGE LAYOUT

- PAGE 1: COVER PAGE
- PAGE 2: CONSTRUCTION PACKAGE
- PAGE 3: FIBER PACKAGE
- PAGE 4: SPLICE ENCLOSURE TABLES
- PAGE 5: END OF LINE VAULTS SHEET
- PAGE 6: MASTER MATERIALS LIST
- PAGE 7: REVISION LOG AND LEGEND

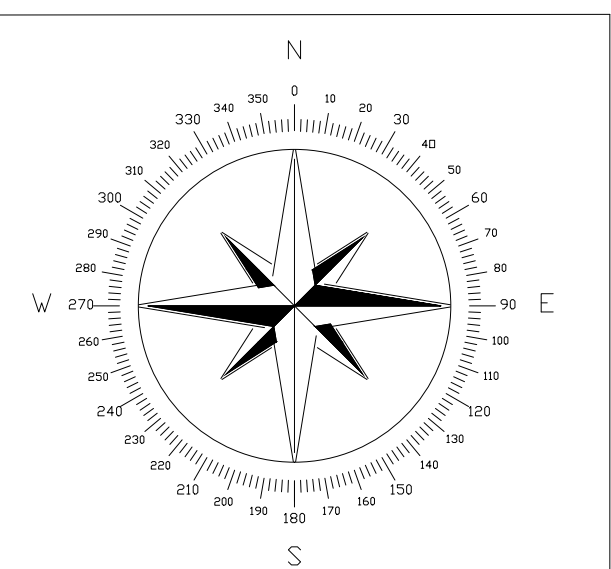
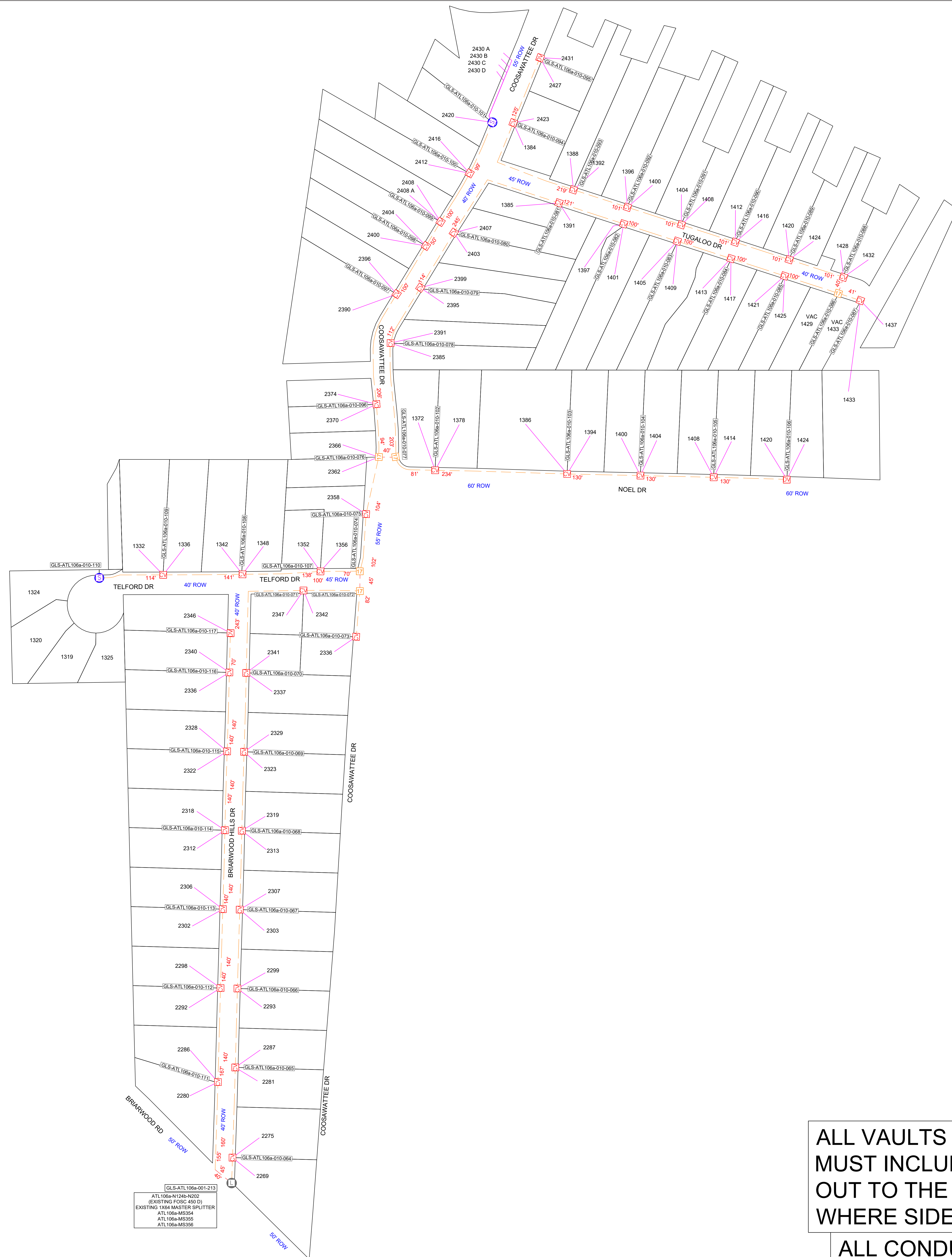
PAGE - 1

DESIGNED BY:



# CONSTRUCTION

PROJECT	ATL106-010 PHASE 3 R000
JURISDICTION	BROOKHAVEN
TOTAL PROJECT RUNNING LINE	6,555'
SOFTSCAPE RUNNING LINE	2,870'
SSD_SPRL_DUCT_INSTALL_A1	2,870
SSD_HARDSCAPE_A1	3,520'
SSD_HARDSCAPE_A4	140'
BC_BORE_ALL_A1	165'
BC_RESTORATION ASPHALT	60
1" CONDUIT	6,555'
1" COUPLER	14
VI_EXTRA_SMALL_VAULT_A2	3
VI_SMALL_VAULT_A2	7
VI_EXTRA_SMALL_VAULT_A4	0
VI_SMALL_VAULT_A4	0
VI_DROP_VAULT_B1	44
EXTRA SMALL VAULTS (PEDESTRIAN RATED)	44
EXTRA SMALL VAULTS T15	3
EXTRA SMALL VAULTS T22	0
SMALL VAULTS (17"x30") T15	5
SMALL VAULTS (17"x30") T22	0
SMALL VAULTS (24"x36") T15	2
SMALL VAULTS (24"x36") T22	0
GROUND RODS	2



## PAGE - 2

SOFTSCAPE SHALLOW TRENCH (LOCAL)	EXISTING CONDUIT
SOFTSCAPE SHALLOW TRENCH (STATE)	EXISTING FIBER CABLE
TRADITIONAL BORE (LOCAL)	DF FIBER CABLE
TRADITIONAL BORE (STATE)	AF FIBER CABLE
NEW CARSON VAULT (10'x15'x12')	EXPRESS AF FIBER CABLE
NEW EXTRA SMALL VAULT (11'x18'x18')	FUTURE FIBER DROP
NEW SMALL VAULT (17'x30'x24')	BORE PIT
NEW SMALL VAULT (24'x36'x24')	AF CABLE REEL END
NEW LARGE VAULT (30'x48'x36')	OPTICAL SPLITTER
NEW EXTRA LARGE VAULT (36'x60'x36')	COYOTE W/ MARKER BALL
EXISTING CARSON VAULT (10'x15'x12')	SPLICE ENCLOSURE
EXISTING EXTRA SMALL VAULT (11'x18'x18')	HUT
EXISTING SMALL VAULT (17'x30'x24')	NEW GROUND ROD
EXISTING SMALL VAULT (24'x36'x24')	EXISTING GROUND ROD
EXISTING LARGE VAULT (30'x48'x36')	2" SLACK LOOP
EXISTING EXTRA LARGE VAULT (36'x60'x36')	SPLICE ID



ALL VAULTS SERVING CUSTOMERS MUST INCLUDE A 1" CONDUIT STUB OUT TO THE BACK OF THE SIDEWALK, WHERE SIDEWALKS ARE PRESENT

ALL CONDUIT INSTALLED WILL BE 1"

ATL125-075 - GDOT - REV000 - 2.16.23.dwg

CHC CONSULTING, LLC

HUT ID: ATL106  
ATLANTA, GA



**CONSTRUCTION NOTES:**

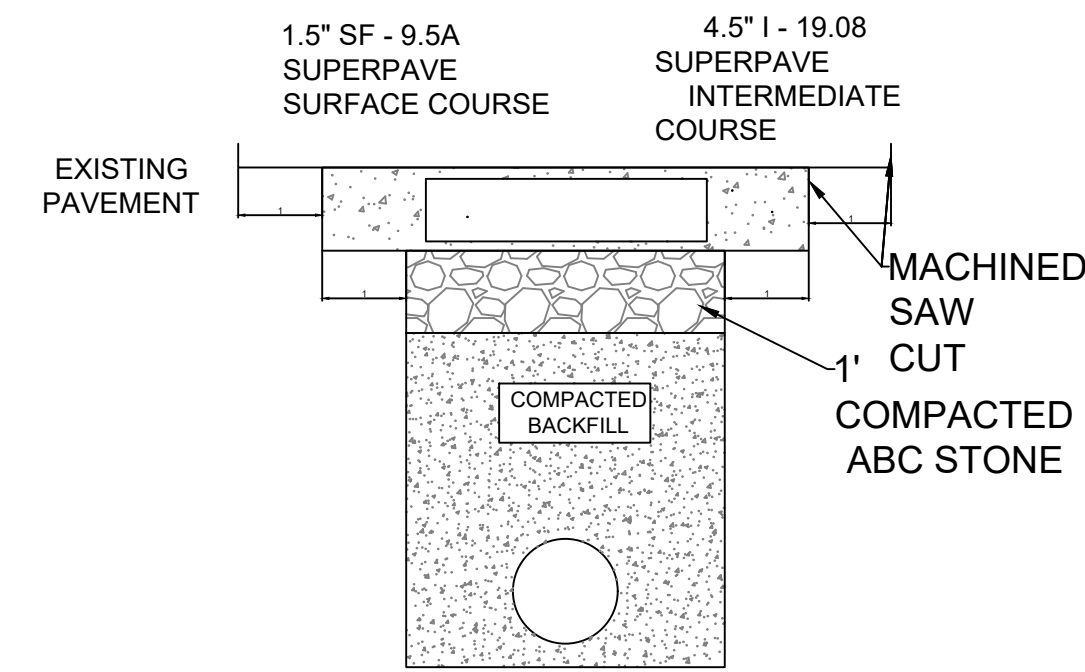
1. WORK SAFE.
2. PLACE DROP VAULTS AT PROPERTY LINE WHENEVER POSSIBLE.
3. RESTORE LIKE FOR LIKE ALL DAMAGED LANDSCAPING AS A RESULT OF CONSTRUCTION.
4. NOTIFY AFFECTED CUSTOMERS AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.
5. PLACE NO PARKING SIGNS WHERE NECESSARY.
6. DESIGN IS BASED ON CURRENT INFORMATION IN FMS.
7. VERIFY ALL EXISTING DROP VAULT LOCATIONS.
8. SOME CABLES AND STRUCTURES NOT SHOWN FOR CLARITY.
9. ALL DETAIL INFORMATION CAN BE FOUND ON PAGE # CT-01 TO CT-04
10. METHOD OF INSTALLATION IS DIRECTIONAL BORING UNLESS NOTED OTHERWISE

SOFTSCAPE SHALLOW TRENCH (LOCAL)	EXISTING CONDUIT
SOFTSCAPE SHALLOW TRENCH (STATE)	EXISTING FIBER CABLE
SOFTSCAPE SHALLOW TRENCH (PRIVATE)	DF FIBER CABLE
SOFTSCAPE SHALLOW TRENCH (RAIL ROAD)	AF FIBER CABLE
SOFTSCAPE SHALLOW TRENCH (GAS)	EXPRESS AF FIBER CABLE
TRADITIONAL BORE (LOCAL)	FUTURE FIBER DROP
TRADITIONAL BORE (STATE)	AF CABLE REEL END
TRADITIONAL BORE (PRIVATE)	OPTICAL SPLITTER
TRADITIONAL BORE (RAIL ROAD)	COYOTE W/ MARKER BALL
TRADITIONAL BORE (GAS)	SPUCE ENCLOSURE
HARDSCAPE SHALLOW TRENCH (LOCAL)	HUT
HARDSCAPE SHALLOW TRENCH (PRIVATE)	NEW GROUND ROD
NEW EXTRA SMALL VAULT (11"x18"x18")	EXISTING GROUND ROD
NEW SMALL VAULT (17"x24"x24")	26" BLACK LOOP
NEW SMALL VAULT (24"x24"x24")	SPUCE ID
NEW LARGE VAULT (30"x36"x36")	EXISTING SMALL VAULT (24"x24"x24")
NEW EXTRA LARGE VAULT (36"x36"x36")	EXISTING LARGE VAULT (30"x36"x36")
EXISTING EXTRA SMALL VAULT (11"x18"x18")	EXISTING EXTRA LARGE VAULT (36"x60"x36")
EXISTING SMALL VAULT (17"x24"x24")	BORE PIT



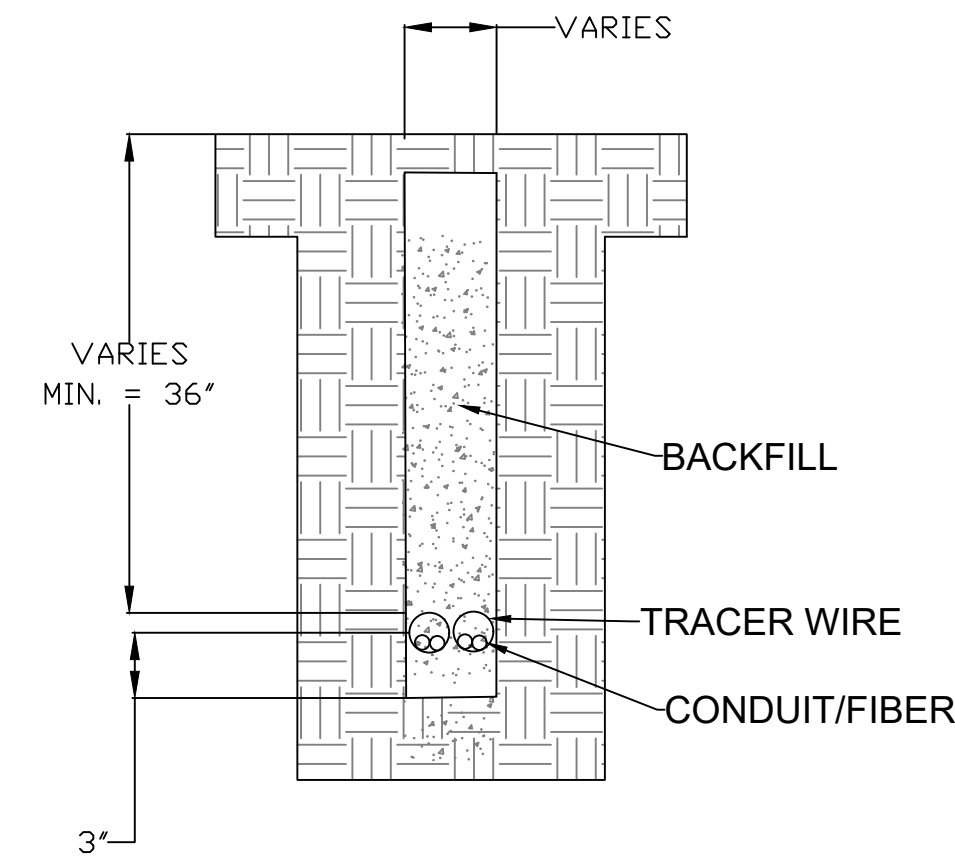
Communications Engineering Excellence in Action

ENGINEER OF RECORD:	DIDO KABENGELE DIBWE
	DRAWN BY: KYLE WILLIAMS
<b>CONSTRUCTION TYPICAL SHEET 1 OF 5</b>	
PROJECT NUMBER	
ATL106	



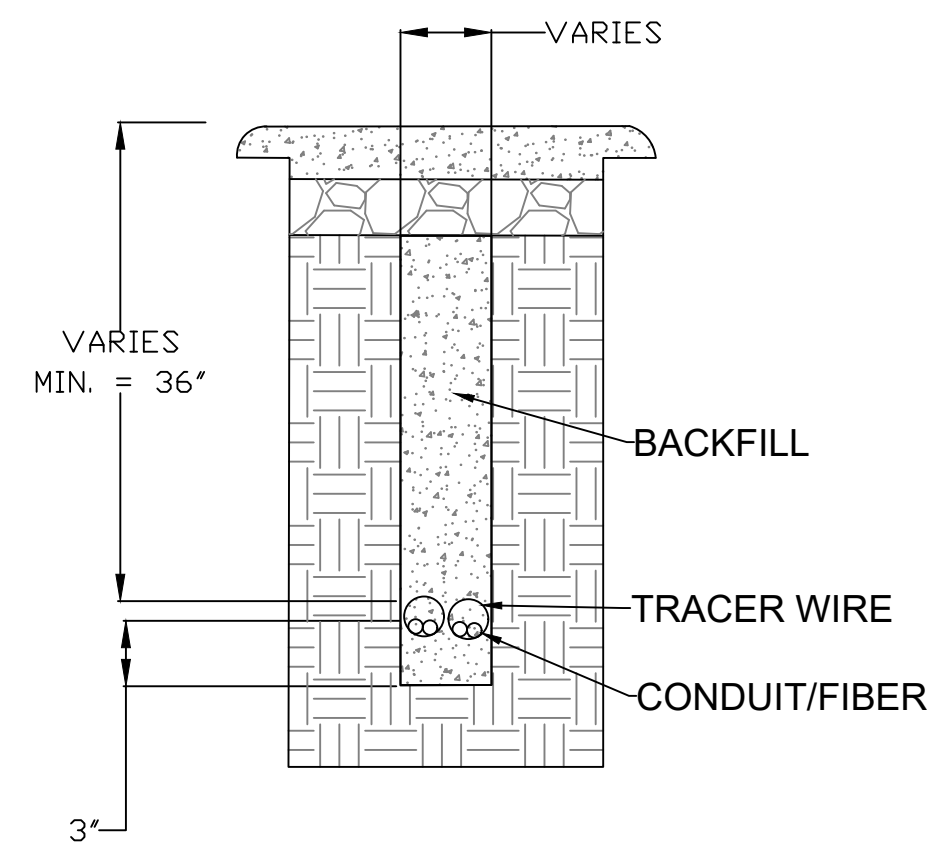
TRENCH/PAVEMENT REPAIR DETAIL  
\*\*REFERENCE GENERAL NOTES SECTION FOR MORE INFORMATION

DETAIL 1  
CT1



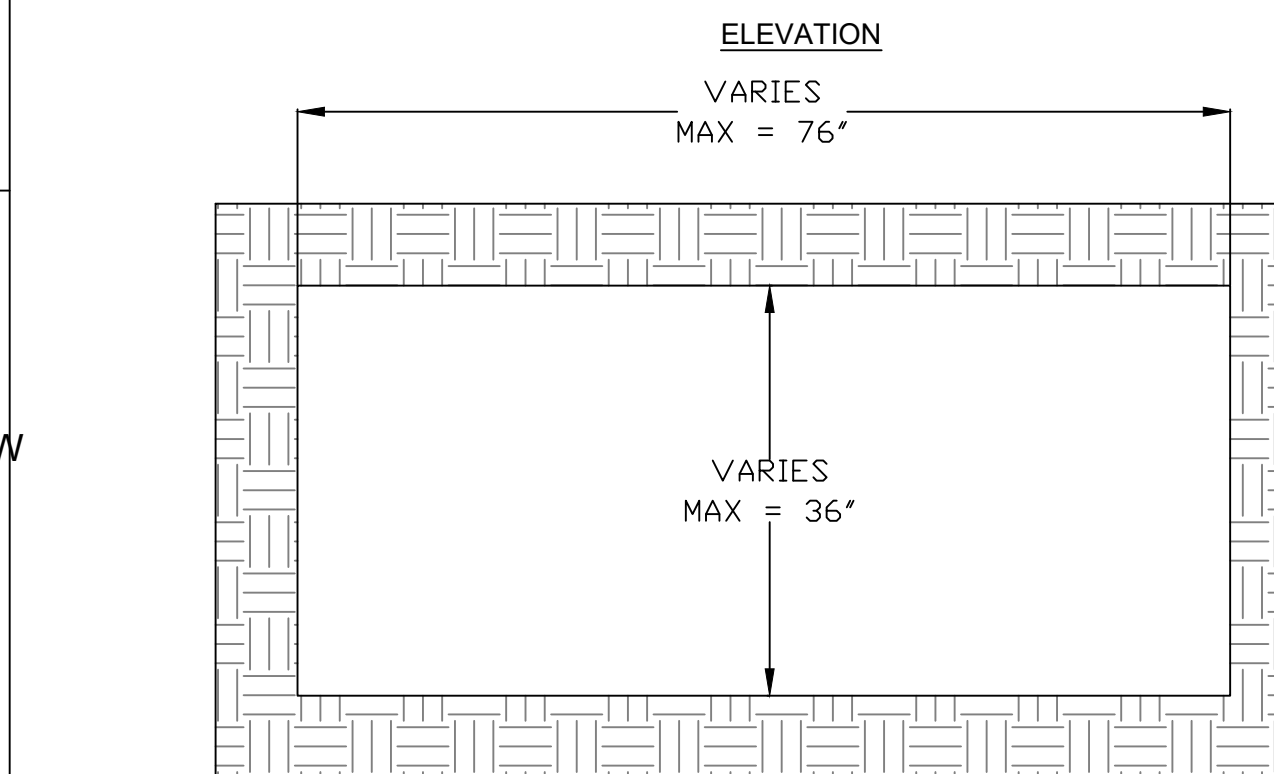
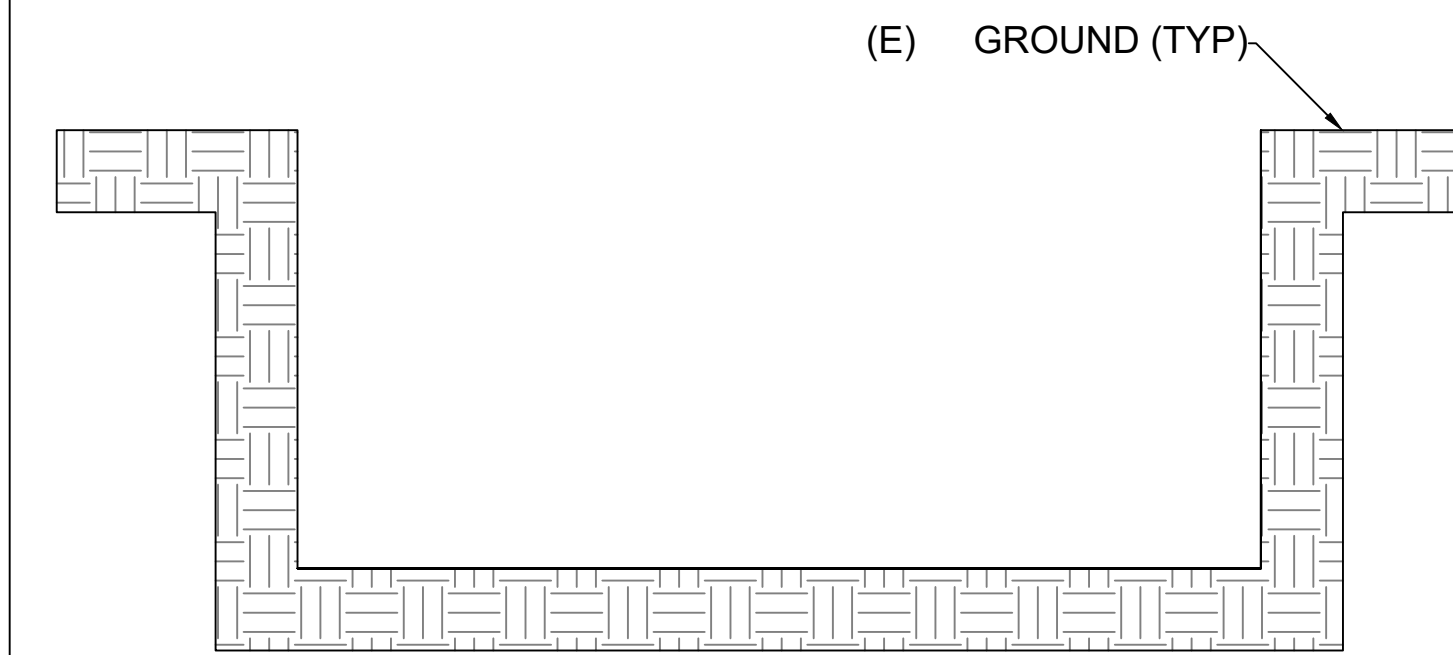
CONDUIT INSTALLATION AND RESTORATION - TRENCH - SOFT SURFACE

DETAIL 3  
CT1



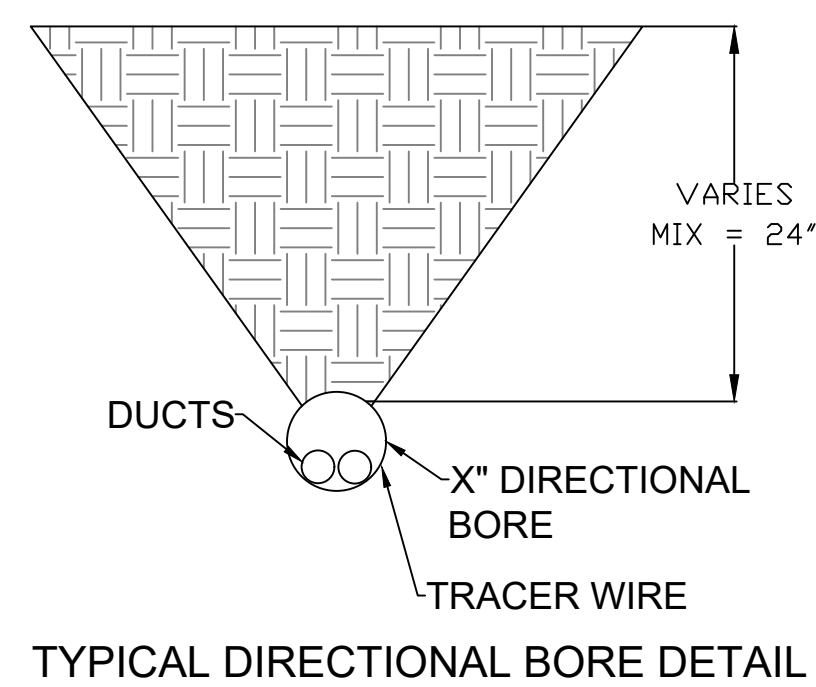
CONDUIT INSTALLATION AND RESTORATION - TRENCH - ASPHALT

DETAIL 5  
CT1

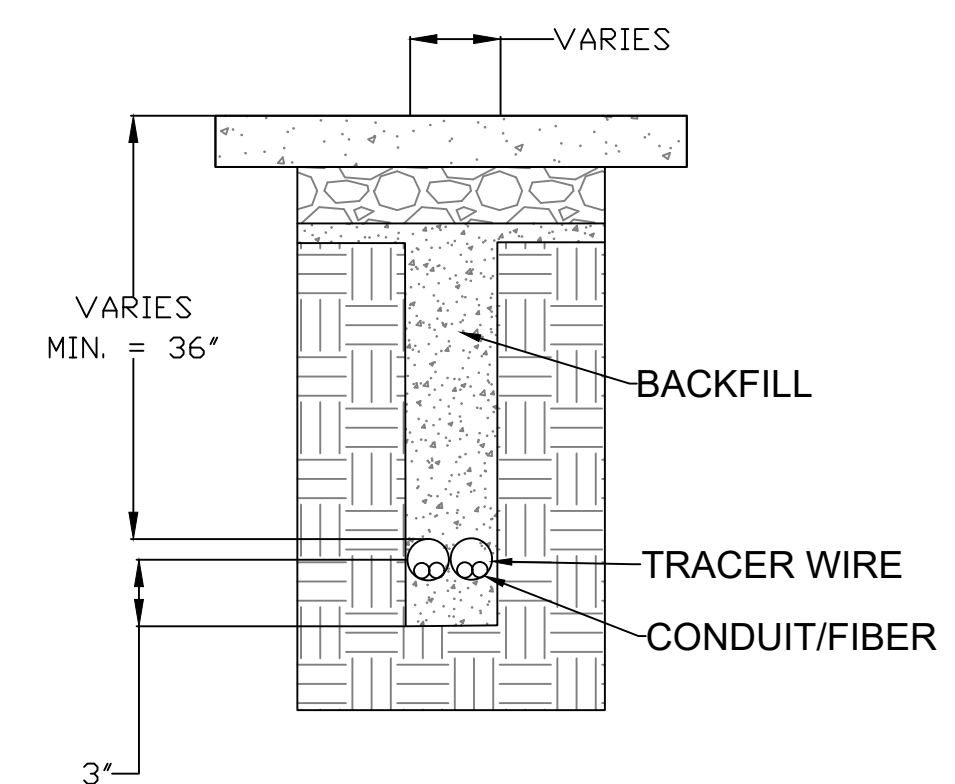


NOTE:  
ACTUAL BORE PIT SIZE TO BE DETERMINED BY CONTRACTOR

DETAIL 7  
CT1 BORE PIT

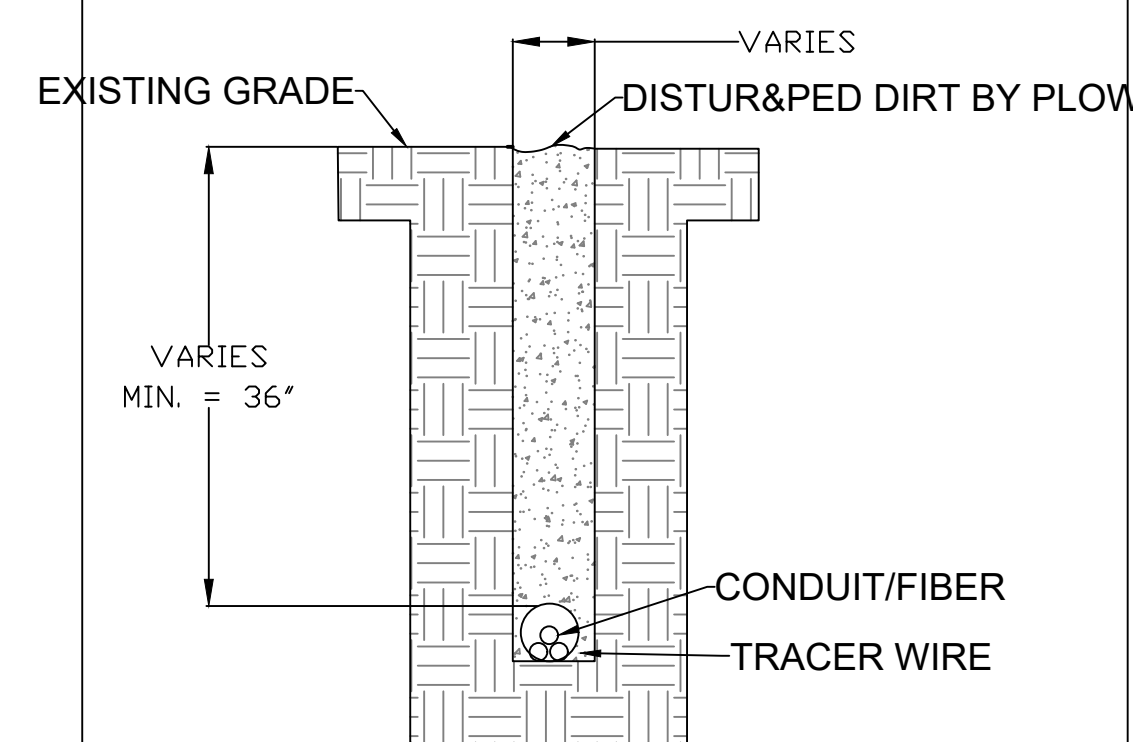


DETAIL 2  
CT1 HDPE SDR 13.5 WITH TRACER WIRE



CONDUIT INSTALLATION AND RESTORATION - TRENCH - CONCRETE

DETAIL 4  
CT1



CONDUIT INSTALLATION AND RESTORATION - PLOW (NON-DROP)

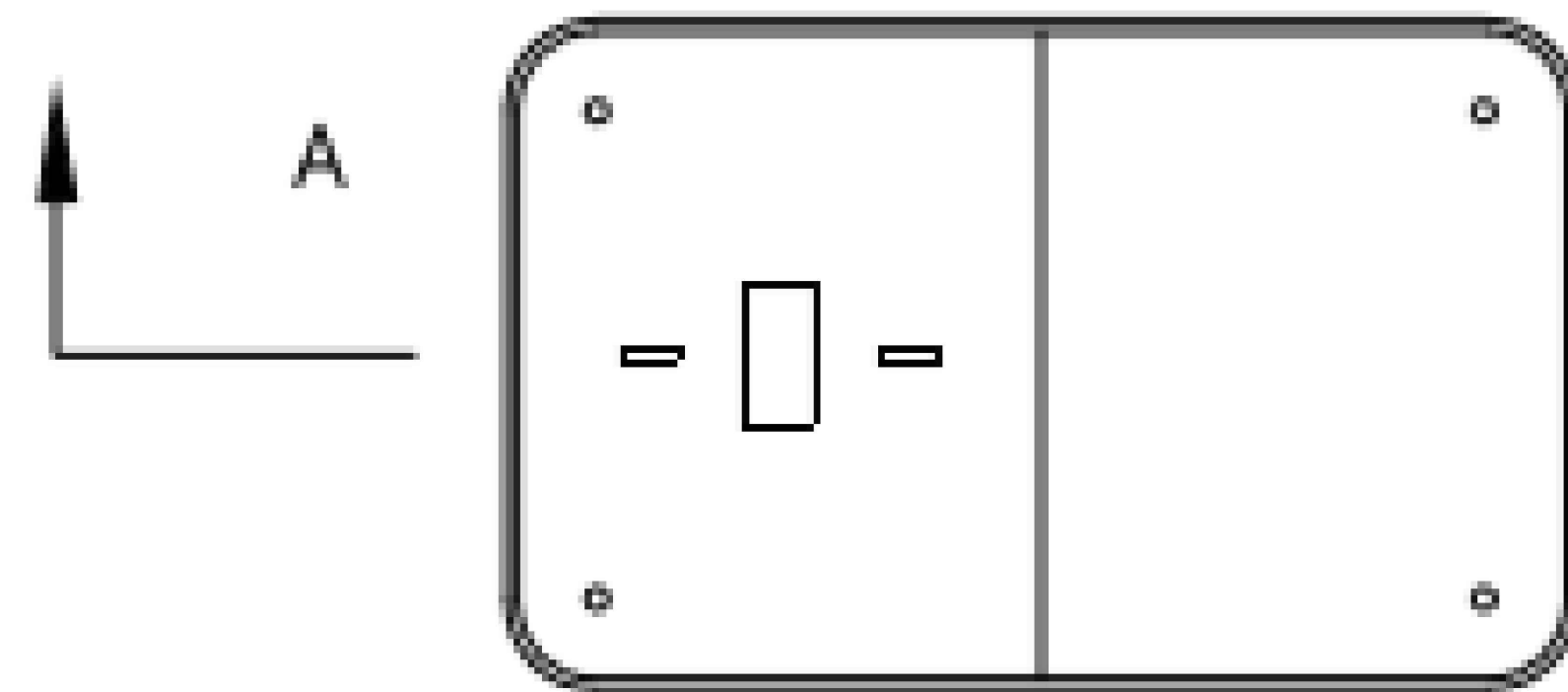
DETAIL 6  
CT1

APPLICABLE TO:

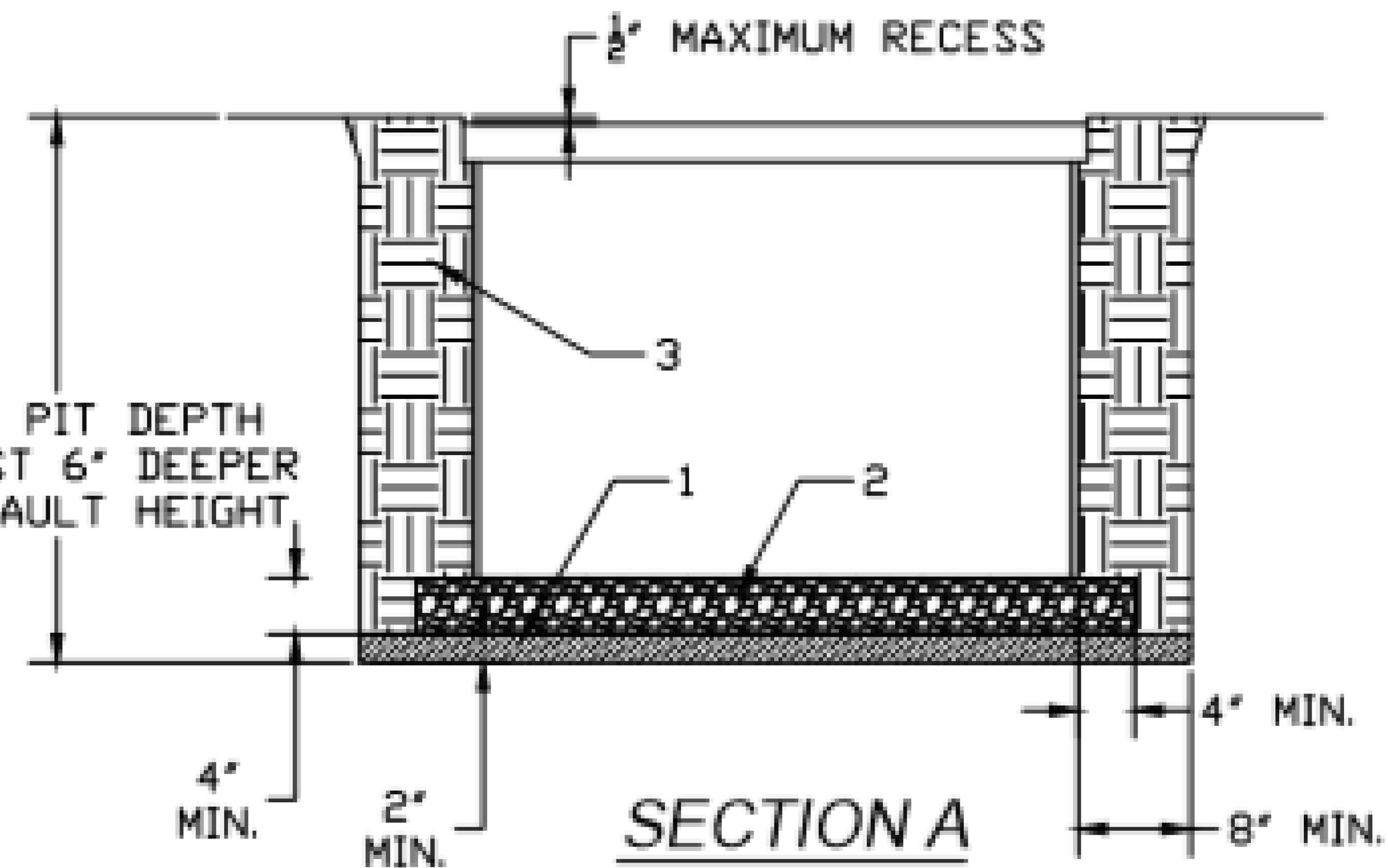
1. APPLICATION: SOFTSCAPE HDPE VAULT PLACEMENT
2. APPLICATION: SOFTSCAPE POLYMER CONCRETE VAULT PLACEMENT
3. FOR AREAS WITHOUT CURB/GUTTER/SIDEWALKS, TIER15 VAULTS TO BE USED. RATED FOR INCIDENTAL/NON-DELIBERATE LIGHT VEHICULAR TRAFFIC

1. SUBGRADE SOIL
2. ROCK BEDDING
3. BACKFILL

INSTALL COLLAR AT DISCRETION OF GFIBER REPRESENTATIVE



VAULT PIT DEPTH AT LEAST 6' DEEPER THAN VAULT HEIGHT



SECTION A  
NOT TO SCALE

PLACE CONDUIT AND PULL BOXES WITHIN 5' OF THE BACK OF CURB TO RESERVE SPACE FOR FUTURE SIDEWALK CONSTRUCTION. IF SIDEWALK IS PRESENT, PLACE CONDUIT AND PULL BOXES BETWEEN BACK OF CURB AND SIDEWALK.

IF NO CURB, GUTTER OR SIDEWALKS ARE PRESENT, CONDUITS AND VAULTS WILL BE PLACED AT LEAST 36" FROM THE EDGE OF PAVEMENT UNLESS SUCH PLACEMENT WOULD EITHER BE OUTSIDE OF THE ROW OR WOULD CONFLICT WITH EXISTING UTILITY MINIMUM OFFSET REQUIREMENTS.

GOOGLE FIBER

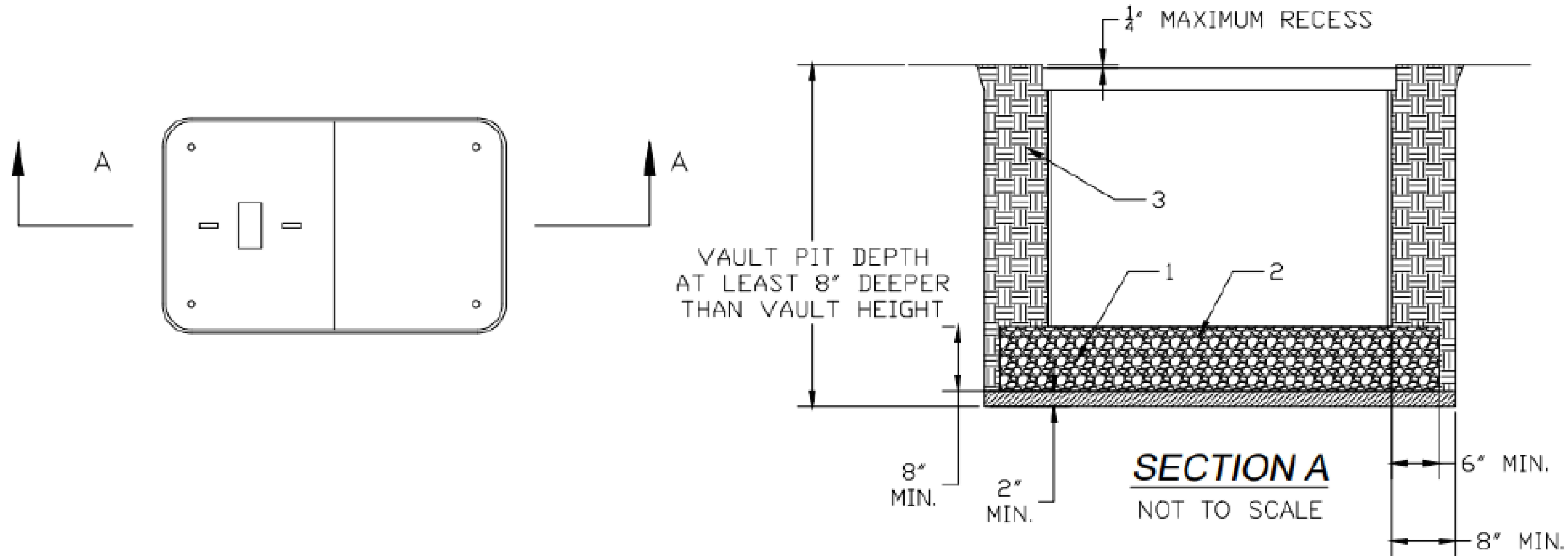
NAME: TIER 15 SOFTSCAPE VAULT PLACEMENT	
TRACKING ID	DWG NO. 40-08.08A.2.a v002
NOT TO SCALE	

APPLICABLE TO:

1. APPLICATION: 40-08.09A.1 HARDSCAPE HDPE VAULT PLACEMENT
2. APPLICATION: 40-08.09A.3 HARDSCAPE POLYMER CONCRETE VAULT PLACEMENT

1. SUBGRADE SOIL PER 40-08.02C.2.c.i
2. ROCK BEDDING PER 40-08.02C.2.c.ii
3. BACKFILL PER 40-08.02C.4.d.i.3

INSTALL COLLAR IF EXISTING CONCRETE IS COMPROMISED PER 40-08.02C.4.d.iv



SIDE ENTRY OF CABLE / CONDUIT DEFINED IN 40-08.02E.1  
ENTRY THROUGH SUBBASE OF CABLE / CONDUIT DEFINED IN 40-08.02E.4

GOOGLE FIBER

NAME

TIER 22 HARDSCAPE  
VAULT PLACEMENT

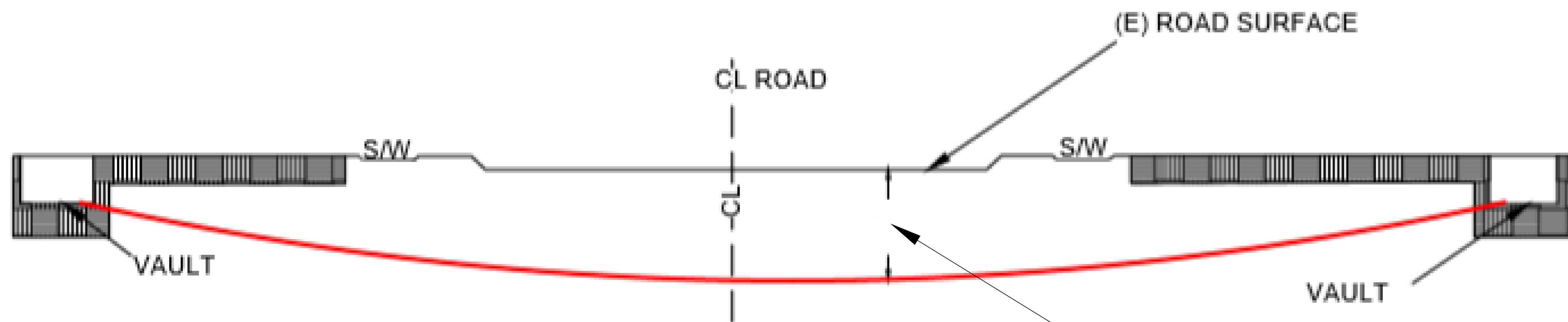
TRACKING ID

DWG NO

40-08.08A.1.b v.002

NOT TO SCALE

Detail 3



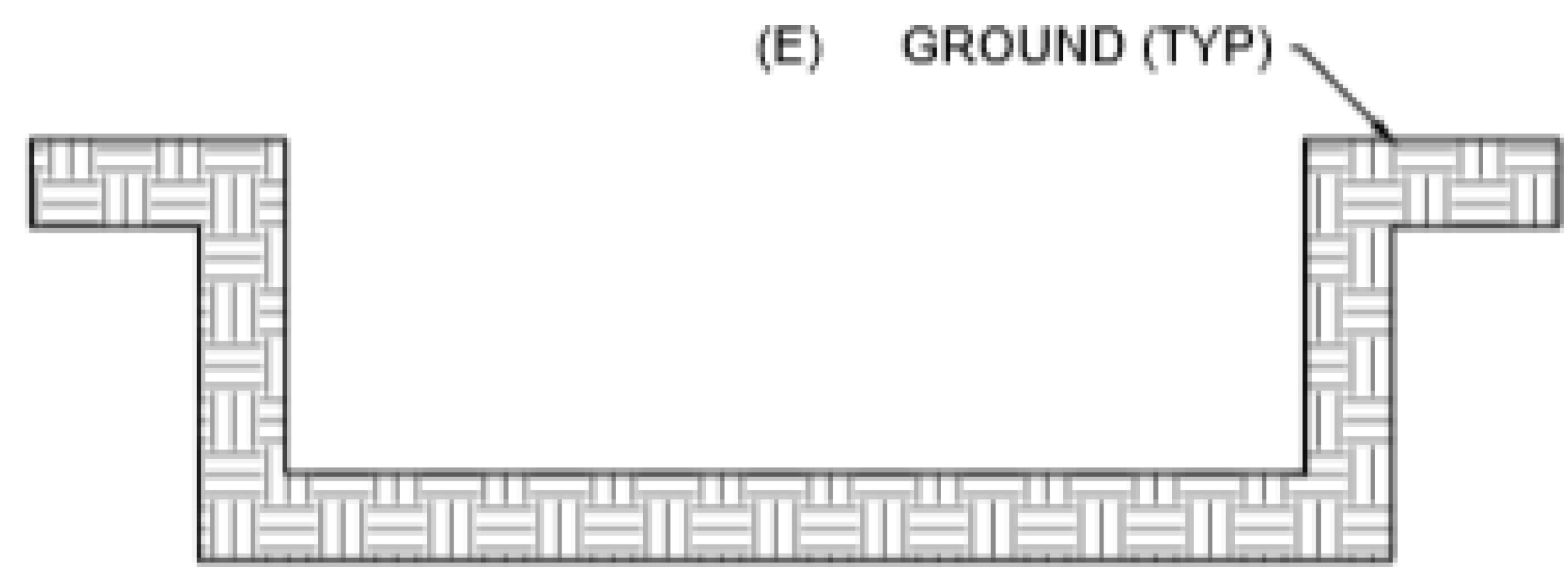
TYPICAL BORE PROFILE



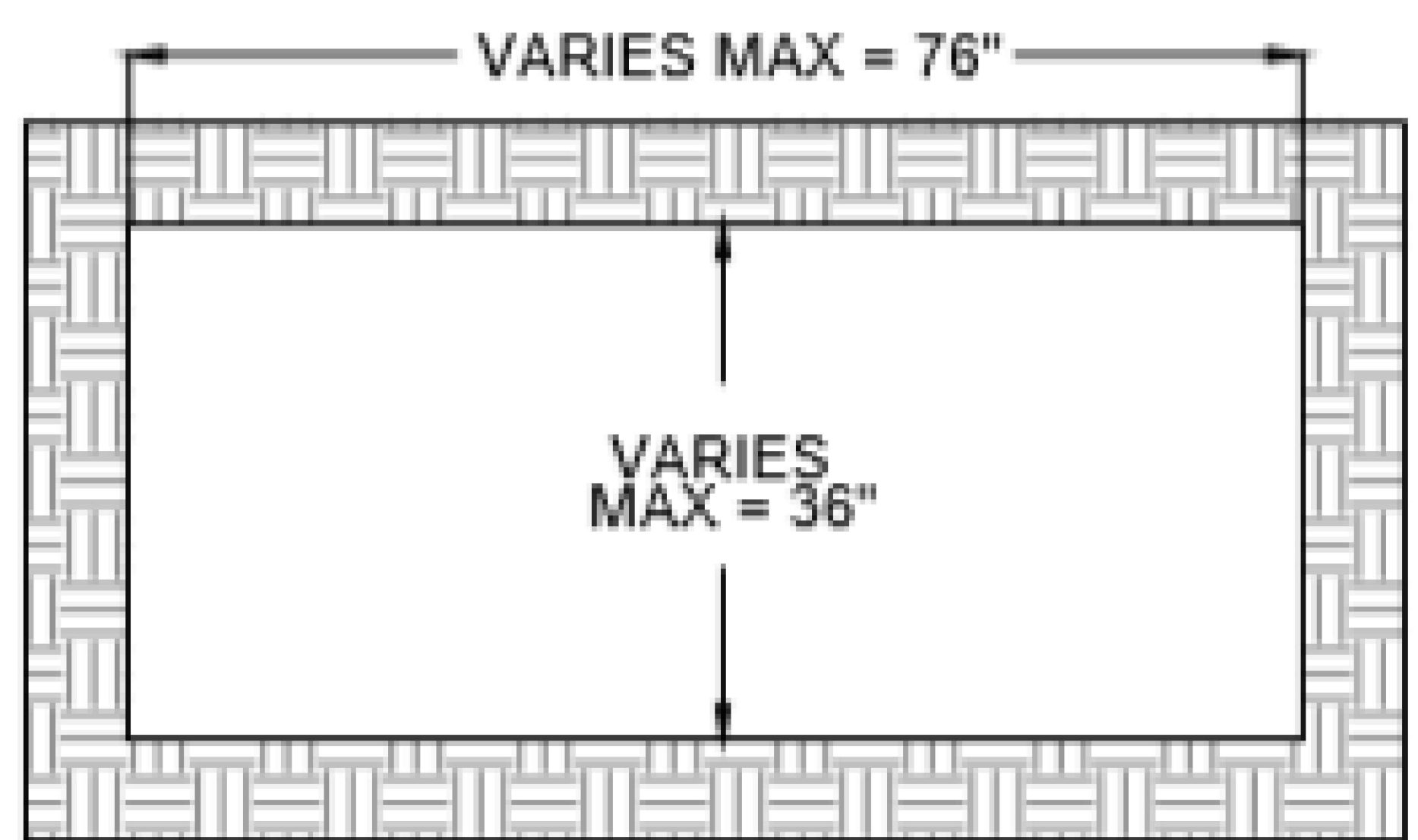
**BURY NEW CONDUIT  
MIN 48" UNDER  
ROAD SURFACE**

NOTES:

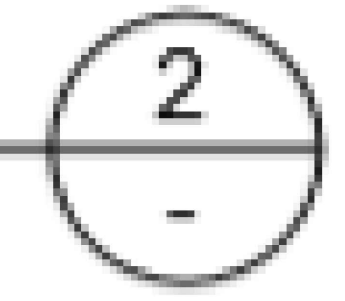
1. CONDUITS ARE 1" TO 2" HIGH DENSITY POLY-ETHYLENE (HDPE).
2. THE FOC WILL VARY IN CONDUIT AND WILL BE ACCOMPANIED BY A 18GA TRACER, OR ARMORED CABLE WILL BE USED.
3. PLACE CONDUIT AND PULL BOXES WITHIN 5' OF THE BACK OF CURB TO RESERVE SPACE FOR FUTURE SIDEWALK CONSTRUCTION. IF SIDEWALK IS PRESENT, PLACE CONDUIT AND PULL BOXES BETWEEN BACK OF CURB AND SIDEWALK.
4. IF NO CURB, GUTTER OR SIDEWALKS ARE PRESENT, CONDUITS AND VAULTS WILL BE PLACED AT LEAST 36" FROM THE EDGE OF PAVEMENT UNLESS SUCH PLACEMENT WOULD EITHER BE OUTSIDE OF THE ROW OR WOULD CONFLICT WITH EXISTING UTILITY MINIMUM OFFSET REQUIREMENTS.
5. ACTUAL BORE PIT SIZE TO BE DETERMINED BY CONTRACTOR.



ELEVATION

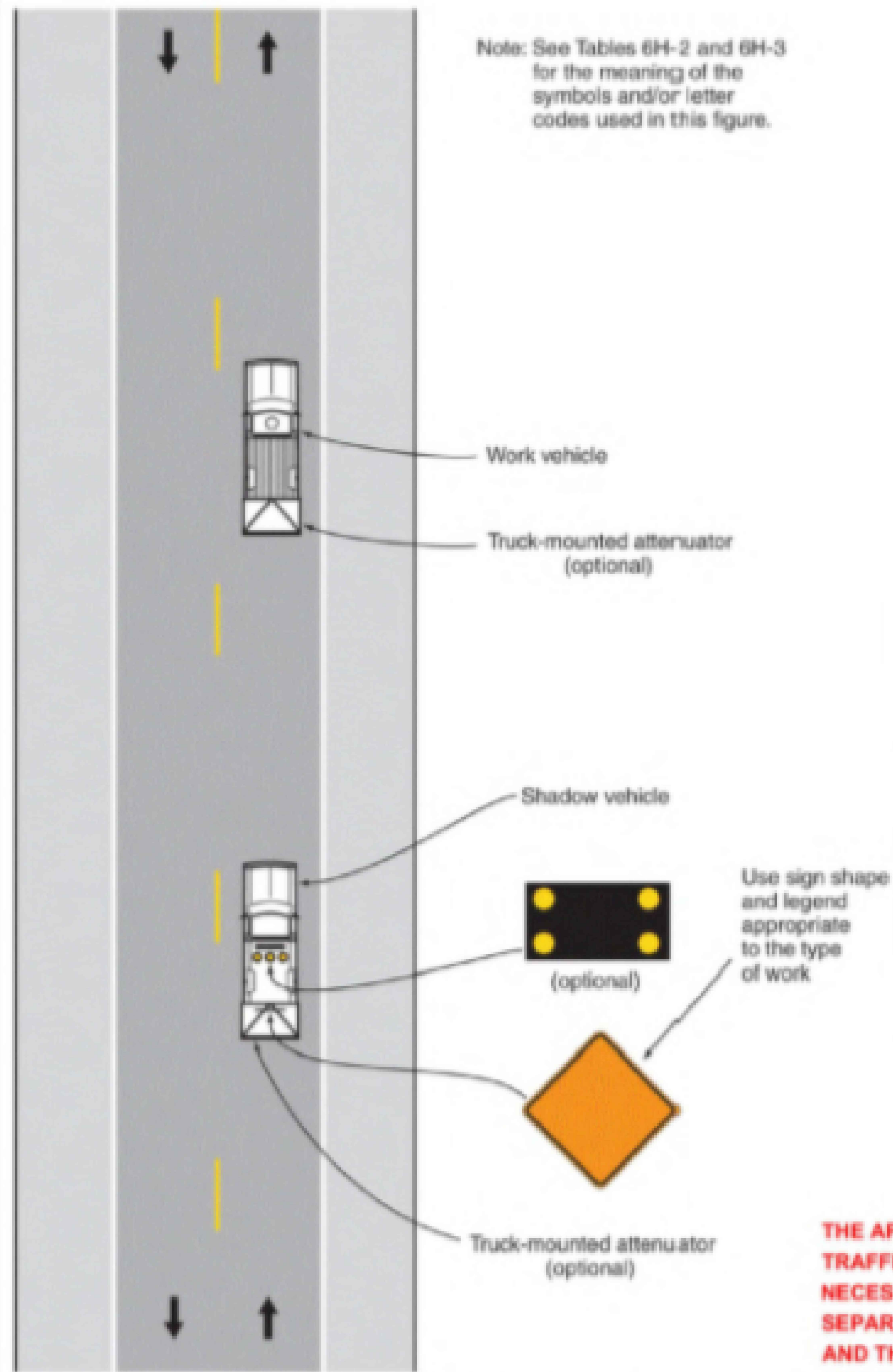


BORE PIT DETAIL  
NTS



GOOGLE FIBER	
NAME	
TYPICAL BORE PROFILE	
DWG NO	
NOT TO SCALE	

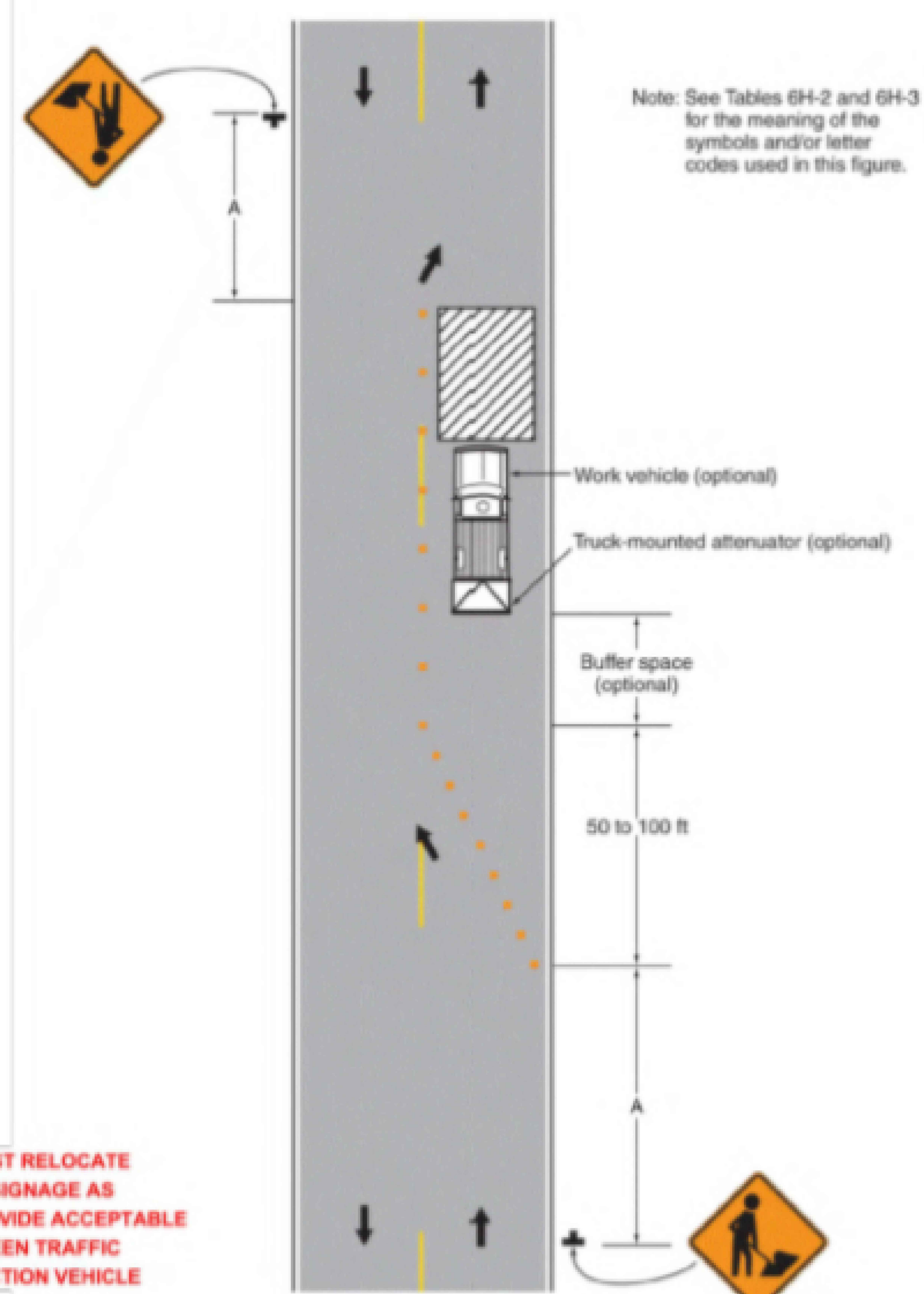
Figure 6H-17. Mobile Operations on a Two-Lane Road (TA-17)



Typical Application 17

OR

Figure 6H-18. Lane Closure on a Minor Street (TA-18)



Typical Application 18

**THE APPLICANT MUST RELOCATE TRAFFIC CONTROL SIGNAGE AS NECESSARY TO PROVIDE ACCEPTABLE SEPARATION BETWEEN TRAFFIC AND THE CONSTRUCTION VEHICLE AND PERSONNEL.**

TRAFFIC CONTROL SHALL BE PER TA-17 OR TA-18

TRAFFIC CONTROL TYPICAL DETAIL REV.1 6.23.2017

