



MCI metro  
ACCESS TRANSMISSION SERVICES CORP  
D/B/A VERIZON ACCESS TRANSMISSION  
OUTSIDE PLANT CONSTRUCTION  
FIBER OPTIC CABLE ROUTE

123069\_8001 FORESTVIEW LN  
N\_2203EAFI\_DESIGN\_5.19.2022

FQNID	EWO NFID
	2203EAFI

MAPLE GROVE, MINNESOTA

PROJECT STATUS: ISSUED FOR PERMITTING  
STATUS DATE: 05-19-2022













# BOM / MAKE READY COST ESTIMATE PROJECT SPECIFIC



PROJECT: 123069\_8001 FORESTVIEW LN N\_2203EAFI\_DESIGN\_5.19.2022

MAPLE GROVE, MN

Site Name	Handhole 24x30x36	Handhole 30x60x30	1.5" HDPE SDR 11 + 5%	2" HDPE SDR 11 + 5%	Ground Rods	Ground Leads	Locate Terminal	Locate Post	Marker Posts	Splice Case 600D	Splice Case 450A	Storage Loops Footage	864F Cable	432F Cable	288F Cable	144F Cable	96F Cable	72F Cable	48F Cable	24F Cable
8001 FORESTVIEW LN N	1	0	0	133	1	1	1	1	1	1	0	200'	0'	0'	0'	0'	623'	0'	0'	0'

CLARIFICATION NO. QUANTITY

BIDUNIT	DESCRIPTION	UNIT	QUANTITY
BDE-100	SimpleOSPDesign	Each	0
BDE-101	SimpleOSPDesignAdder(toBDE-100)	Each	0
BDE-200	FullOSPDesign	Each	1
BDE-201	FullOSPDesignAdder(toBDE-200)	Each	0
BDE-300	DirectCostApplicationFees	Actual+5%	0
BDE-400	PropertyAccessApproval-MTU/Stip/Campus	Each	0
BDE-501	PropertyDesignandEngineering-MTU1-15units	Each	0
BDE-502	PropertyDesignandEngineering-MTU16-50units	Each	0
BDE-503	PropertyDesignandEngineering-MTU50+units	Each	0
BDE-504	PropertyDesignandEngineering-StripMall1-5units	Each	0
BDE-505	PropertyDesignandEngineering-StripMall6+units	Each	0
BDE-506	PropertyDesignandEngineering-Campus1-5units	Each	0
BDE-507	PropertyDesignandEngineering-Campus6-20units	Each	0
BDE-508	PropertyDesignandEngineering-Campus21+units	Each	0

BIDUNIT	DESCRIPTION	UNIT	QUANTITY
BDC-050	MobilizationFee	Each	0
BDC-051	TripCharge	Each	0
BDC-101	Construction-New Underground(DirectBuried)w/Tracer(>12"cover)	Foot	0
BDC-102	Construction-New Underground18mmMicroDuctHDPE(12"to24"cover)	Foot	0
BDC-103	Construction-New Underground1x1.25"HDPE(12"to24"cover)	Foot	0
BDC-104	Construction-New Underground1x2"HDPE(depthcompliesw/governingjurisdiction)	Foot	0
BDC-105	Construction-New UndergroundHDPE(size18mmupto2")(Bore)	Foot	133
BDC-106	Construction-New Underground(MicroTrench)	Foot	0
BDC-107	Construction-RemoveandReinstat Asphalt(4"increments)	SqFt	0
BDC-108	Construction-RemoveandReinstat Concrete(4"increments)	SqFt	0
BDC-109	Construction-New UndergroundRockAdderthroughRockin6"increments(Mechanical)(AdderBDC-101-104)	Foot	0
BDC-110	Construction-New UndergroundRockAdder(Bore)(AdderBDC-105)	Foot	0
BDC-111	Construction-PlaceHandhole-Small(size17inchesx30inches)	Each	0
BDC-112	Construction-PlaceHandhole-Medium(size24inchesx36inches)	Each	1
BDC-113	Construction-PlaceHandhole-Large(size36inchesx60inches)	Each	0
BDC-114	Construction-PlaceManhole-(size4footx4foot)	Each	0
BDC-200	Construction-InterceptExistingConduit/Innerduct	Each	1
BDC-300	Construction-Cableplacement	Foot	423
BDC-301	Construction-Cableremoval	Foot	0
BDC-400	Construction-Aerial(New/Overlash)	Foot	0
BDC-501	Removemolding	Foot	0
BDC-502	Placenew molding	Foot	0
BDC-503	Installn-buildinginnerduct	Foot	0
BDC-504.1	PlaceElectricalConduitEMT1"	Foot	0
BDC-504.2	PlaceElectricalConduitEMT2"	Foot	0
BDC-504.3	PlaceElectricalConduitEMT3"	Foot	0
BDC-504.4	PlaceElectricalConduitEMT4"	Foot	0
BDC-505	PlaceCableRaceway	Foot	0
BDC-506	GroundPenetratingRadar(GPR)Survey	Scan	0
BDC-507	CoreBore</=2.5inchDiameterhole-depthof12inches	Each	0
BDC-508	CoreBore</=2.5inchDiameterhole-depthof12-24inches	Each	0
BDC-509	CoreBore</=2.5inchDiameterhole-depthof24-36inches	Each	0
BDC-510	CoreBore2.5to4inchDiameterhole-depthof12inches	Each	0
BDC-511	CoreBore2.5to4inchDiameterhole-depthof12-24inches	Each	0
BDC-512	CoreBore2.5to4inchDiameterhole-depthof24-36inches	Each	0
BDC-513	CoreBore4to5inchDiameterhole-depthof12inches	Each	0
BDC-514	CoreBore4to5inchDiameterhole-depthof12-24inches	Each	0
BDC-515	CoreBore4to5inchDiameterhole-depthof24-36inches	Each	0
BDC-600	DirectCost-3rdPartyOrMakeReady	Actual+5%	0
BDC-701	CablePrep/Splicing/Testing(LooseTube)	Fiber	0
BDC-702	CablePrep/Splicing/Testing(Ribbon)	Fiber	0
BDC-800	TerminalPlacement	Each	1
BDC-900	Sub-ductInstallation	Foot	0

PERMITS REQUIRED		
PERMIT AGENCY/PERMIT NUMBER	SHEET #	FOOTAGE
CITY OF MAPLE GROVE	8	155'

MCImetro  
 ACCESS TRANSMISSION SERVICES, LLC  
 OUTSIDE PLANT CONSTRUCTION  
 TITLE: FIBER OPTIC CABLE ROUTE  
 123069\_8001 FORESTVIEW LN N\_2203EAFI\_DESIGN\_5.19.2022

DATE: 05-19-2022

ENGINEER: YL

DRAWN BY: YL

**REVISIONS**

DATE	DESCRIPTION	INITIAL
05-19-2022	CONSTRUCTION PKG	YL

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**SCALE**

HORIZONTAL: NTS

VERTICAL: NTS

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 7 OF 8

FILE: 123069\_8001 FORESTVIEW LN N\_2203EAFI\_DESIGN\_5.19.2022.DWG











# CONCRETE CURB, GUTTER AND CURB & GUTTER RESTORATION DETAILS



PROJECT: TYPICALS

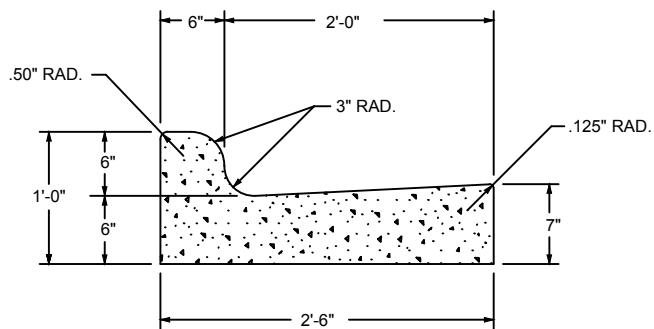
TYPICALS

N/A

CLARIFICATION NO. QUANTITY

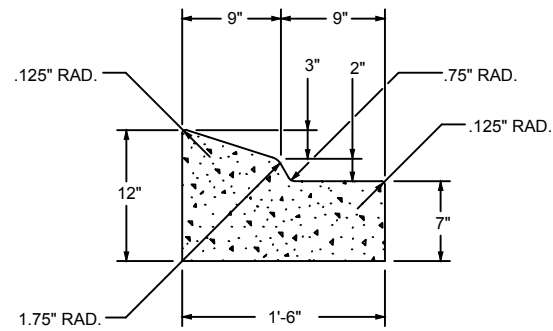
DETAIL "A"

2'-6" CURB AND GUTTER



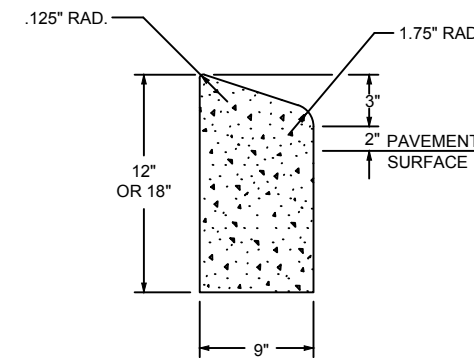
DETAIL "B"

1'-6" CURB AND GUTTER



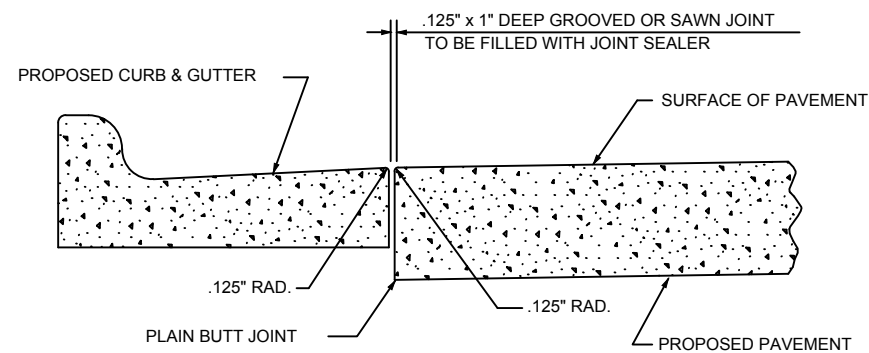
DETAIL "C"

9"X12" OR 18" CONCRETE CURB



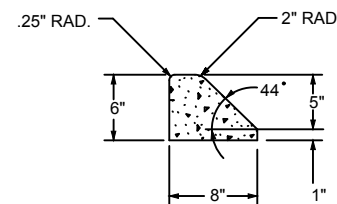
DETAIL "D"

LONGITUDINAL PLANE BUTT JOINT



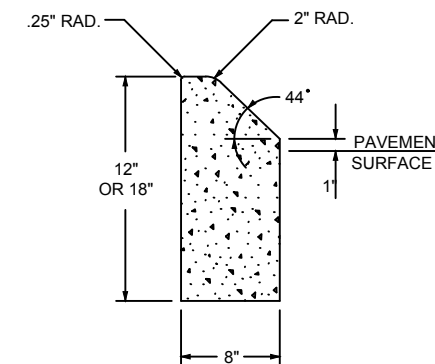
DETAIL "E"

8"X6" MEDIAN CURB



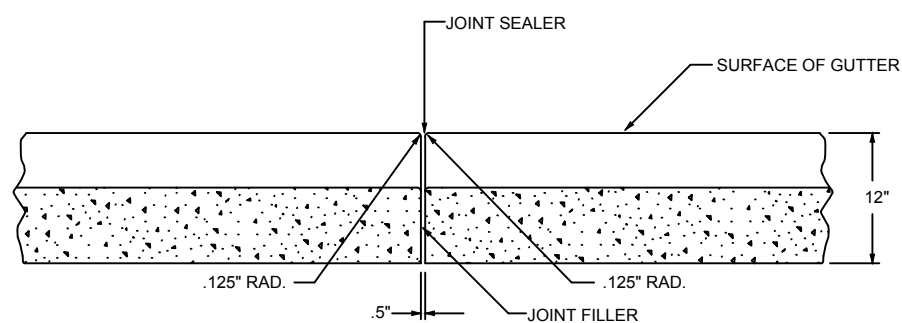
DETAIL "F"

8"X12" OR 18" CONCRETE CURB



DETAIL "G"

TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER



NOTES:

- CONTRACTION JOINTS SHALL BE PLACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE. FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
- JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
- CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/4" SHALL BE OBTAINED.
- ALL CONSTRUCTION JOINTS, EXCEPT IN 8" x 6" MEDIAN CURB, SHALL BE FILLED WITH JOINT FILLER AND SEALER.
- EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.

XO COMMUNICATIONS  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC CABLE ROUTE  
TYPICALS

DATE: N/A

ENGINEER: N/A

DRAWN BY: N/A

REVISIONS

DATE	DESCRIPTION	INITIAL

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET T2 OF T7

FILE: TYPICALS

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## MCI Outside Plant FOCUS

### *Fiber Optic Cable Uncovering System*

- 1) The title of this program, F.O.C.U.S., an acronym for Fiber Optic Cable Uncovering System was selected to remind everyone involved with working near MCI's active fiber optic systems to focus on protecting the facilities. If, during the course of the project, YOU notice any activity which may jeopardize the MCI OSP facilities, it is your duty to stop the work and re- FOCUS.
- 2) FOCUS rules must be followed on all MCI projects involving work on or near MCI OSP facilities. Safety is MCI's number one priority; everyone must refrain from unsafe and improper practices.
- 3) Review of FOCUS is mandatory at every Pre-bid, Pre-construction, site meeting and daily tailgate meeting. FOCUS discussion must include site-specific history, unique problems, facility configurations that may be encountered, and past errors. "Those who do not learn from history are doomed to repeat it". Do not let this happen to you.
- 4) Any work near or requiring handling of MCI Outside Plant facilities can only be performed with an MCI employee or contract representative present -- **THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK.** The representative must have a properly operating cable locator checked for accuracy every day prior to commencement of work (comparison of line and depth readings to actual line and depth of the cable).
- 5) Locate and Pothole Requirements.
  - Prior to any excavation, the MCI employee or contract representative must verify the initial locate marks completed by MCI Operations. **Do not trust locate results completed by others!** The MCI or contract representative must locate the cable running line by making at least one pass in each direction. Locate results must then be compared with previous marks and the asbuilts.
  - If the proposed work involves digging or excavating *within 3 feet* of the cable, the cable route will be marked continually with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole (**all potholes must be completed by hand digging or vacuum excavation**) a minimum of every 15 ft., then expose the entire length of the cable by hand digging or vacuum excavation.
  - If the proposed work involves digging or excavating *within 5 feet (but not closer than 3 feet)* of the cable, the cable route will be marked with a continuous dashed orange line and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 15 ft.
  - If the proposed work involves digging or excavating *within 15 feet (but not closer than 5 feet)* of the cable, the cable route will be marked with a continuous dashed orange line and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 30 ft.
  - The cable will also be potholed at any change in the running line of more than 1 ft. in any direction, anytime the accuracy of the electronic locate is questioned, or the marked running line does not match the as-builts.
- 6) Exposing Requirements.
  - No mechanical excavation within 3 ft. of OSP facilities will be allowed unless the facilities have first been properly located, potholed, positively identified, continuously exposed by hand digging or vacuum excavation, and the facilities are clearly visible.
  - In addition, mechanical excavation within three feet of OSP facilities requires onsite prior approval from MCI's employee or contract representative.
- 7) Please refer to the latest edition of the MCI OSP Handbook for additional details. Know it and follow it.



## **MCI Outside Plant Construction General Requirements**

- All Federal, State and local safety regulations must be followed without exception.
- Personal protective equipment appropriate for the specific work site shall be used at all times. At a minimum, hard hat, safety shoes/steel toed boots and florescent orange or green work vest are required upon entering any MCI work site.
- Use of intoxicants, drugs, inhalants or any other substances that may impair alertness are strictly prohibited.
- Contractors are NOT allowed to cut any cable. Cables scheduled for removal will be cut by MCI Operations personnel, and only after verification that all traffic has been off-loaded.
- Extreme caution must be used at all times when working on or near active cables. An MCI employee or contract representative must approve and be present prior to and during all cable handling activities.
- Tools and equipment specifically designed for the job at hand are required. **USE THE PROPER TOOL FOR THE JOB.**
- Conduit work involving active cables requires specialized tools specifically designed to access ducts with active cables.
- Protecting MCI facilities is **EXTREMELY** important; however, **SAFETY** regarding yourself and others is the most important part of any project.