

GENERAL ENGINEERING SPECIFICATIONS

ALL SUBSTRUCTURE LAYOUT AND DESIGN COMPLETED BY OUTSIDE PERSONNEL MUST BE REVIEWED AND APPROVED BY COMCAST ENGINEERING PERSONNEL 30 DAYS PRIOR TO CONSTRUCTION START. ALL SUBSTRUCTURE DRAWINGS OR COMPOSITES SHALL BE TO SCALE (PREFERABLY 1" = 100') AND SHALL INDICATE TRENCH ROUTE AND FOOTAGE. DRAWINGS MUST BE COMPLETED TO COMCAST CORP. CABLE STANDARDS USING COMCAST CORP. CABLE SYMBOLS.

TRENCHING SPECIFICATIONS

ALL MAINLINE CONDUIT (2" CONDUIT INSTALLED IN PUBLIC RIGHT OF WAYS, STREETS OR DRIVEWAYS) SHALL BE INSTALLED AT A MINIMUM DEPTH OF 24" BELOW FINISHED GRADE.

SERVICE CONDUIT INSTALLED ON PRIVATE PROPERTY IN DIRT OR PLANTER AREAS MUST HAVE A MINIMUM COVER DEPTH OF 12" BELOW FINISHED GRADE.

CONDUITS SHOULD BE PROTECTED WITH A MINIMUM OF 3" OF SAND IN THE BASE OF THE TRENCH AND CONDUIT SHOULD BE COVERED WITH A MINIMUM OF 3" OF SAND PRIOR TO INTERMEDIATE BACKFILL. ALL TRENCHES MUST BE COMPACTED TO A MINIMUM OF 95 PERCENT.

COMCAST CORP. CABLE PREWIRE SPECIFICATIONS

THE NATIONAL ELECTRIC CODE, AS IT PERTAINS TO THE CLASSIFICATION AND LABELING OF ALL CATV WIRE USED IN COMMERCIAL AND RESIDENTIAL STRUCTURES IS AS FOLLOWS:

CATVP - TO BE USED IN AIR HANDLING SPACES (PLENUMS)

CATVR - TO BE USED IN RISER SHAFTS (ANY VERTICAL PASSAGEWAY)

CATVX - TO BE USED AS WIRING IN RESIDENTIAL OR COMMERCIAL BUILDING AREAS OTHER THAN THOSE LISTED ABOVE.

THE CABLE THAT CURRENTLY MEETS COMCAST CORP. SPECIFICATIONS IS RG6 AND IS MANUFACTURED BY COMMSCOPE. THIS CABLE CAN BE PURCHASED THROUGH COMCAST CORP.

DIFFERENT VENDORS MAY OFFER AN EQUIVALENT TYPE OF WIRE, BUT IF YOU USE CABLE OTHER THAN COMMSCOPE CONTACT THE CONSTRUCTION COORDINATOR FOR THIS AREA FOR APPROVAL. NAME AND NUMBER ARE ON THE THIRD PAGE OF THIS LETTER.

PLEASE NOTE: SERVICE LEADS ARE NOT TO EXCEED 150'
FOR SERVICE LEADS OVER 150' USE RG11

**COMCAST CORP. RESERVES THE RIGHT TO REFUSE ANY WIRING THAT DOES NOT MEET OUR SPECIFICATIONS. THIS INCLUDES THE TYPE OF WIRE AND THE METHOD OF WIRING.
NO LOOP SYSTEMS!**

CONDUIT SPECIFICATIONS CONTINUED

ANY CONDUIT DESIGNATED FOR FIBER MUST ENTER PEDESTALS THROUGH THE BOTTOM AND EXTEND 4" INTO THE INSIDE. ALL CONDUITS WILL BE PLUGGED WITH CONDUIT CAPS IMMEDIATELY AFTER INSTALLATION AND PRIOR TO BACKFILL.

ALL CONDUIT DESIGNATED FOR FIBER SHALL BE MANDREL PROOFED WITH WALL TO WALL MEASUREMENTS USING MEASURING TAPE OF CONDUIT RUNS.

UPON COMPLETION OF CONDUIT INSTALLATION, A 1/8" POLYPROPYLENE PULL ROPE MUST BE INSTALLED IN ALL CONDUITS TO ENSURE CONTINUITY.

CONDUIT SWEEP SPECIFICATIONS – NO SUBSTITUTIONS

4" PVC SCHEDULE 40, BOE 90 DEGREE, MINIMUM 60" RADIUS SWEEP. MANUFACTURED SWEEPS ARE TO BE AVOIDED IN 4" RUNS WITH EXCEPTIONS APPROVED BY COMCAST INSPECTOR IN ADVANCE. NO 45 OR 90-DEGREE BENDS SHALL BE USED ENTERING OR EXITING BOXES.

COMCAST CORP. WILL ALLOW INSTALLATION OF MINIMAL BEND/SWEEP 4" CONDUITS (FIBER OPTIC) PROVIDED THAT:

1. SWEEP OR BEND RADIUS IS 60" MINIMUM OR GREATER
2. SWEEP OR BEND ARC IS NOT MORE THAT 45 DEGREES (PREFERABLY 11 OR 22 DEGREES).
3. THERE ARE NEVER MORE THAT 5 (FIVE) 90 DEGREE BEND OR SWEEP IN ANY CONTINUOUS CONDUIT RUN.
4. ANY AND ALL MANUFACTURED BENDS ARE STEEL OR CONCRETED TO THE INSIDE OF THE SWEEP TO PROTECT AGAINST BURNING THROUGH THE PIECE.
5. MANUFACTURED BENDS ARE USED ONLY WHEN NECESSARY.
6. CONDUITS ARE STRAIGHT FOR A DISTANCE NOT LESS THAT 10' IN OR OUT OF A VAULT, BOX OR PEDESTAL AND LINE UP FOR STRAIGHT THROUGH PULLING.

2" PVC SCHEDULE 40 BOE 90 DEGREE, MINIMUM 24" RADIUS SWEEP. THERE SHALL BE NO MORE THAN FOUR (4) 90-DEGREE SWEEPS ALLOWED PER CONDUIT RUN.

2" PVC SCHEDULE 40 BOE 45 DEGREE, MINIMUM 24" RADIUS SWEEP. THERE SHALL BE NO MORE THAN 4 SWEEPS OF ANY KIND ALLOWED PER CONDUIT RUN.

1" PVC SCHEDULE 40 BOE 90 DEGREE, MINIMUM 18" RADIUS SWEEP. THERE SHALL BE NO MORE THAN FOUR (4) SWEEPS OF ANY KIND ALLOWED PER CONDUIT RUN.

UNDERGROUND CABLE TV CONSTRUCTION SPECIFICATIONS (CONT.)

BOX SPECIFICATIONS

⇒ CHRISTY FIBERLYTE "FL SERIES" MARKED CABLE TV. EACH BOX INSTALLATION SHALL INCLUDE A FIBERLYTE CONCRETE OR IRON LID (TRAFFIC AREAS), AND A FIBERLYTE BOX, EACH RATED FOR INCIDENTAL TRAFFIC.

BOX SIZES ARE AS FOLLOWS:

B 30	13" X 24"	ROUGH DIMENSIONS	13" X 24" X 18"
B-36	17"X30"	ROUGH DIMENSIONS	17" X 30" X 18"
B 48	48" X 30"	ROUGH DIMENSIONS	48" X 30" X 12"

COMCAST CORP RESERVES THE OPTION TO SUBSTITUTE A CHRISTY CONCRETE B-30 BOX IN PLACE OF FIBERLYTE FL 30, DEPENDING ON NEED.

PEDESTAL SPECIFICATIONS

RELIABLE ELECTRIC/UTILITY PRODUCTS TV-CPH-1730. EACH PEDESTAL SHALL INCLUDE TWO 24" MOUNTING STAKES AND FACTORY INSTALLED "A" FRAME STAND BRACKETS. THE CPH-1730 REQUIRES THE 6" BASE. THESE PEDESTAL LOCATIONS ARE DESIGNATED FOR ELECTRONIC EQUIPMENT AND A 5/8" GROUND ROD WITH GROUND GURNEY IS REQUIRED TO BE PLACED INSIDE THE PEDESTAL AS WELL AS OTHER SPECIFIED LOCATIONS. GROUND RODS WILL BE PROVIDED BY COMCAST FOR PLACEMENT BY DEVELOPER CONTRACTOR.

PEDESTAL SIZES ARE AS FOLLOWS

TV-CPH-1230	12" X 30" X 6"
TV-CPH-1730	17" X 30" X 6"

DESIGNATES 8' GROUND ROD PLACEMENT

GROUND ROD INSTALLATION

8' GROUND RODS WILL BE PROVIDED FOR DEVELOPER/CONTRACTORS FOR INSTALLATION AT COMCAST CORP. DESIGNATED LOCATIONS.

SUBSTRUCTURE INSPECTIONS

INSPECTION IS REQUIRED ON ALL CONDUIT AND BOX INSTALLATION COMPLETED BY CONTRACTOR. ALL DEVELOPER OR CONTRACTOR INSTALLED SUBSTRUCTURE MUST BE INSPECTED DURING NORMAL WORKING HOURS (7:00 A.M. TO 3:00 P.M.) BY A COMCAST CONSTRUCTION INSPECTOR PRIOR TO BACKFILL AND, MUST BE SIGNED OFF AS APPROVED ON A DAILY BASIS. 24-HOUR NOTICE IS REQUIRED FOR ALL INSPECTIONS. ALL BOX INSTALLATIONS REQUIRE INSPECTION AND APPROVAL. DEVELOPER IS RESPONSIBLE FOR COST OF ALL INSPECTION TIME. FAILURE TO COMPLY WILL RESULT IN A FORMAL COMPLAINT BEING FILED WITH THE BUILDING INSPECTOR. THIS COMPLAINT WILL REQUEST THAT THE JOB BE SHUT DOWN UNTIL COMPLIANCE IS MADE.