

**TABLE 1: CPUC GENERAL ORDER 95 BASIC MINIMUM ALLOWABLE VERTICAL CLEARANCE OF WIRES ABOVE RAILROADS, THOROUGHFARES, POLES, BUILDINGS, STRUCTURES OR OTHER OBJECTS**

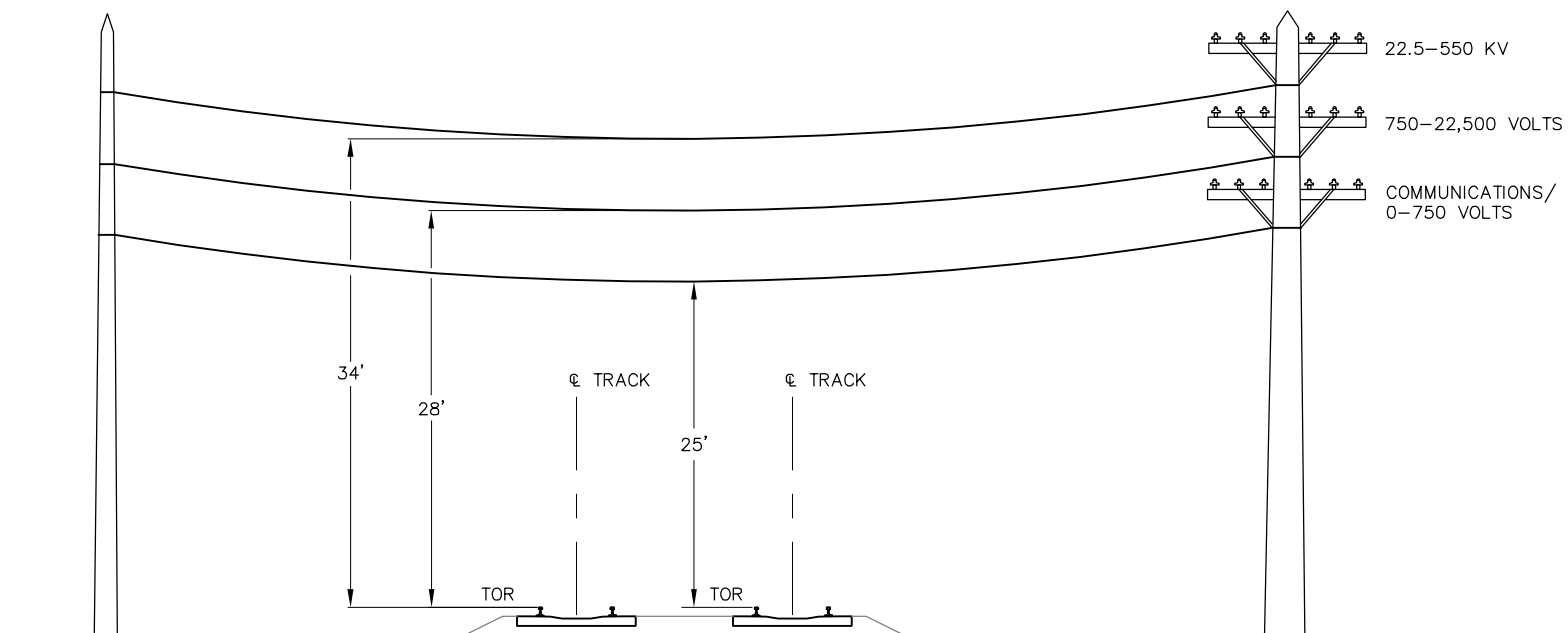
| CASE NO. | NATURE OF CLEARANCE   | A   | B   | C   | D  | E   | F  | G  |
|----------|---|---|---|---|--|---|--|--|
|          |   | SPAN WIRES (OTHER THAN TROLLEY SPAN WIRES) OVERHEAD GUYS AND MESSENGERS | COMMUNICATION CONDUCTORS (INCLUDING OPEN WIRE, CABLES & SERVICE DROPS), SUPPLY SERVICE DROPS OF 0-750 VOLTS | TROLLEY CONTACT, FEEDER AND SPAN WIRES, 0-5,000 VOLTS | SUPPLY CONDUCTORS OF 0-750 VOLTS & SUPPLY CABLES | SUPPLY CONDUCTORS & SUPPLY CABLES, 750-22,500 VOLTS | SUPPLY CONDUCTORS & SUPPLY CABLES, 22.5-300 KV | SUPPLY CONDUCTORS & SUPPLY CABLES, 300-550 KV (mm) |
| 1        | CROSSING ABOVE TRACKS OF RAILROADS WHICH TRANSPORT OR PROPOSE TO TRANSPORT FREIGHT CARS (MAXIMUM HEIGHT 15-FT, 6-INCH) WHERE NOT OPERATED BY OVERHEAD CONTACT WIRES.  | 25-FT   | 25-FT   | 22.5-FT   | 25-FT  | 28-FT   | 34-FT  | 34-FT  |
| 2        | CROSSING OR PARALLELING ABOVE TRACKS OF RAILROAD OPERATED BY OVERHEAD TROLLEYS.   | 26-FT   | 26-FT   | 19-FT   | 27-FT  | 30-FT   | 34-FT  | 34-FT  |
| 3        | CROSSING OR ALONG THOROUGHFARES IN URBAN DISTRICTS OR CROSSING THOROUGHFARES IN RURAL DISTRICTS.  | 18-FT   | 18-FT   | 19-FT   | 20-FT  | 25-FT   | 30-FT  | 30-FT  |
| 4        | ABOVE GROUND ALONG THOROUGHFARES IN RURAL DISTRICTS OR ACROSS OTHER AREAS CAPABLE OF BEING TRAVERSED BY VEHICLES OR AGRICULTURAL EQUIPMENT.   | 18-FT   | 18-FT   | 19-FT   | 20-FT  | 25-FT   | 30-FT  | 30-FT  |
| 5        | ABOVE GROUND IN AREAS ACCESSIBLE TO PEDESTRIANS ONLY.   | 8-FT  | 10-FT   | 19-FT   | 12-FT  | 17-FT   | 25-FT  | 25-FT  |
| 6        | VERTICAL CLEARANCE ABOVE WALKABLE SURFACES ON BUILDINGS, (EXCEPT GENERATING PLANTS OR SUBSTATIONS) BRIDGES OR OTHER STRUCTURES WHICH DO NOT ORDINARILY SUPPORT CONDUCTORS, WHETHER ATTACHED OR UNATTACHED.      | 8-FT  | 8-FT  | 8-FT  | 8-FT   | 12-FT   | 12-FT  | 20-FT  |
| 6A       | VERTICAL CLEARANCE ABOVE NON-WALKABLE SURFACES ON BUILDINGS, (EXCEPT GENERATING PLANTS OR SUBSTATIONS) BRIDGES OR OTHER STRUCTURES, WHICH DO NOT ORDINARILY SUPPORT CONDUCTORS, WHETHER ATTACHED OR UNATTACHED. | 2-FT  | 8-FT  | 8-FT  | 8-FT   | 8-FT  | 8-FT   | 20-FT  |
| 7        | HORIZONTAL CLEARANCE OF CONDUCTOR AT REST FROM BUILDINGS (EXCEPT GENERATING PLANTS AND SUBSTATIONS), BRIDGES OR OTHER STRUCTURES (UPON WHICH MEN MAY WORK) WHERE SUCH CONDUCTOR IS NOT ATTACHED THERETO.        | -   | 3-FT  | 3-FT  | 3-FT   | 6-FT  | 6-FT   | 15-FT  |
| 8        | DISTANCE OF CONDUCTOR FROM CENTER LINE OF POLE, WHETHER ATTACHED OR UNATTACHED.   | -   | 15-INCHES   | 15-INCHES   | 15-INCHES  | 15 OR 18-INCHES                                     | 18-INCHES                                      | NOT APPLICABLE                                     |
| 9        | DISTANCE OF CONDUCTOR FROM SURFACE OF POLE CROSS ARM OR OTHER OVERHEAD LINE STRUCTURE UPON WHICH IT IS SUPPORTED, PROVIDING IT COMPLIES WITH CASE 8 ABOVE.  | -   | 3-INCHES  | 3-INCHES  | 3-INCHES   | 3-INCHES  | 1/4  | NOT APPLICABLE                                     |

**MINIMUM CLEARANCES OF WIRES ABOVE RAILROADS, THOROUGHFARES, ETC.**




- CLEARANCES BETWEEN OVERHEAD CONDUCTORS, GUYS, MESSENGERS OR TROLLEY SPAN WIRES AND TOPS OF RAILS, SURFACES OF THOROUGHFARES OR OTHER GENERALLY ACCESSIBLE AREAS ACROSS, ALONG OR ABOVE WHICH ANY OF THE FORMER PASS; ALSO THE CLEARANCES BETWEEN CONDUCTORS, GUYS, MESSENGERS OR TROLLEY SPAN WIRES AND BUILDINGS, POLES, STRUCTURES, OR OTHER OBJECTS, SHALL NOT BE LESS THAN THOSE SET FORTH IN TABLE 1, AT A TEMPERATURE OF 60°F AND NO WIND.
- THE CLEARANCES SPECIFIED IN TABLE 1, CASE 1, COLUMNS A, B, D, E AND F, SHALL IN NO CASE BE REDUCED MORE THAN 5% BELOW THE TABULAR VALUES BECAUSE OF TEMPERATURE AND LOADING AS SPECIFIED IN CPUC GO 95 RULE 43. THE CLEARANCES SPECIFIED IN TABLE 1, CASES 2 TO 6 INCLUSIVE, SHALL IN NO CASE BE REDUCED MORE THAN 10% BELOW THE TABULAR VALUES BECAUSE OF TEMPERATURE AND LOADING AS SPECIFIED IN CPUC GO 95 RULE 43.
- THE CLEARANCE SPECIFIED IN TABLE 1, CASE 1, COLUMN C (22.5 FEET), SHALL IN NO CASE BE REDUCED BELOW THE TABULAR VALUE BECAUSE OF TEMPERATURE AND LOADING AS SPECIFIED IN RULE 43.
- WHERE SUPPLY CONDUCTORS ARE SUPPORTED BY SUSPENSION INSULATORS AT CROSSINGS OVER RAILROADS WHICH TRANSPORT FREIGHT CARS, THE INITIAL CLEARANCES SHALL BE SUFFICIENT TO PREVENT REDUCTION TO CLEARANCES LESS THAN 95% OF THE CLEARANCES SPECIFIED IN TABLE 1, CASE 1, THROUGH THE BREAKING OF A CONDUCTOR IN EITHER OF THE ADJOINING SPANS.

**CLEARANCE OF POLES, TOWERS AND STRUCTURES FROM RAILROAD TRACKS**

- WHERE POLES, TOWERS OR OTHER LINE STRUCTURES ARE SET IN PROXIMITY TO RAILROAD TRACKS, THE MINIMUM SIDE CLEARANCE FROM THE FACE OF A POLE, TOWER, OR STRUCTURE TO THE CENTER LINE OF THE TANGENT RAILROAD TRACK SHALL BE 8 FEET 6 INCHES.
- THIS SIDE CLEARANCE MAY BE DECREASED OR SHALL BE INCREASED IN ACCORDANCE WITH CPUC GENERAL ORDER 26-D, SECTIONS 3.7, 3.16, 3.20, 8.1, 9.2, 9.3 AND 9.4. FOR TRACKS USED EXCLUSIVELY FOR LIGHT-RAIL TRANSIT OPERATIONS, THE SIDE CLEARANCES MAY BE FURTHER DECREASED IN ACCORDANCE WITH CPUC GENERAL ORDER 143A, SECTION 9.06.



**MINIMUM CLEARANCES OF WIRES ABOVE RAILROADS - CASE 1**

|     |      |    |     |     |   |     |      |    |     |   |             |     |      |    |                           |     |                |  |
|-----|------|----|-----|-----|---|-----|------|----|-----|---|-------------|-----|------|----|---------------------------|-----|----------------|--|
|     |      |    |     |     | <b>PENINSULA CORRIDOR JOINT POWERS BOARD</b>  |     |      |    |     | <b>STANDARD DRAWINGS</b>  |             |     |      |    | CADD FILE NO.:<br>SD-2005 |     |                |  |
|     |      |    |     |     | APPROVED BY:  |     |      |    |     | <br>1250 San Carlos Avenue<br>San Carlos, CA 94070 |             |     |      |    | REV<br>0                  |     | DATE<br>093011 |  |
|     |      |    |     |     | <br>ENGINEERING MANAGER            |     |      |    |     |   |             |     |      |    | TRACK                     |     |                |  |
|     |      |    |     |     | <br>DEPUTY DIRECTOR OF ENGINEERING |     |      |    |     | TRACK<br>CLEARANCES<br>MINIMUM VERTICAL CLEARANCE<br>PER CPUC GENERAL ORDER 95  |             |     |      |    | STANDARD NO.:<br>SD-2005  |     |                |  |
| REV | DATE | BY | CHK | APP | DESCRIPTION   | REV | DATE | BY | CHK | APP   | DESCRIPTION | REV | DATE | BY | CHK                       | APP | DESCRIPTION    |  |