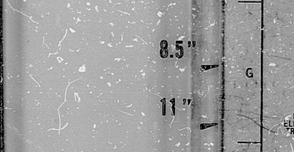
LEGEND

- ADJUSTABLE HORIZONTAL SPLICE PLATE
- 914'-9" 612'-9" ADJUSTABLE VERTICAL SPLICE PLATE
- 425'-8" CABLE TRAY AND ELEVATION (SEE DETAIL "A")
- CABLE TRAY WITH ELEVATED FLAT COVER
- CABLE TRAY WITH PEAKED COVER
- CABLE TRAY END PLATE
- HORIZONTAL ELBOW - 90° UNLESS OTHERWISE NOTED
- 90° OUTSIDE VERTICAL CABLE HANGER ELBOW
- OV OUTSIDE VERTICAL ELBOW - DEGREE AS NOTED
- IV INSIDE VERTICAL ELBOW - DEGREE AS NOTED
- REDUCER - STRAIGHT (SEE NOTE 14)
- REDUCER - LEFT HAND (SEE NOTE 14)
- REDUCER - RIGHT HAND (SEE NOTE 14)
- VT VERTICAL TEE (CENTER LEG HORIZONTAL)
- VT VERTICAL TEE (CENTER LEG VERTICAL)
- HORIZONTAL TEE (ALL LEGS SAME SIZE)
- HORIZONTAL TEE (CENTER LEG DIFFERENT SIZE)
- HORIZONTAL CROSS (ONE OR MORE LEGS DIFFERENT SIZE) (OMIT SOLID CIRCLE FOR CROSS WITH ALL LEGS SAME SIZE)
- D.O. SINGLE DROP OUT
- D.O. DOUBLE DROP OUTS
- HORIZONTAL ELBOW, DEGREE AS NOTED, JOINED DIRECTLY TO EITHER AN INSIDE OR OUTSIDE VERTICAL ELBOW, DEGREE AS NOTED
- SECTIONS: SECTIONS SHALL BE MARKED AS SHOWN, WITH THE ARABIC NUMBERS INSIDE THE SYMBOL AND THE DRAWING REFERENCE, ON WHICH THE SECTION APPEARS, BELOW THE LINE. IF SECTION APPEARS ON SAME DRAWING WHERE SYMBOL IS SHOWN, NO REFERENCE IS REQUIRED.
- 1 / 214-833
- DETAILS: WHEN DETAILS ARE REQUIRED, THEY SHALL BE CALLED FOR AND REFERED TO BY CAPITAL LETTERS. e.g. DETAIL "A"
- EXPANSION CONNECTORS
- VR (C-214-) (D-214-) VERTICAL RISER PASSING THROUGH FLOOR TO OTHER ELEVATIONS
- CONTINUATION REFERENCE DRAWINGS
- VR EL. 288'-0" (D-214-) VERTICAL RISER WHICH TERMINATES AT A SPECIFIC ELEVATION, BUT IS NOT CONNECTED TO A HORIZONTAL TRAY.
- TOP OR BOTTOM ELEVATION AT WHICH RISER TERMINATES
- CONTINUATION REFERENCE DRAWING

TOLERANCE:
OD = OUTSIDE DEPTH ±1/4" MAX
ID = INSIDE DEPTH ±3/8"
W = INSIDE WIDTH ±1/4"

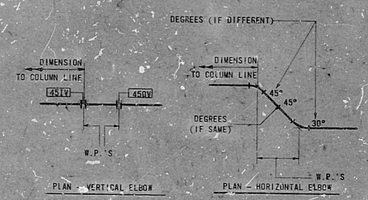


*DESIGN DIMENSIONS SHOWN ARE NOMINAL AND EXCLUSIVE OF ANY SPECIAL BRACING REQUIREMENTS.

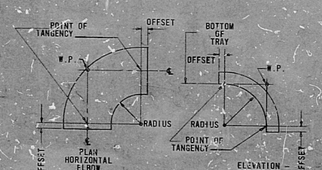
SECTION THRU TRAY
DETAIL A

THE FOLLOWING IS A LIST OF TRAY SYMBOLS WHICH ARE USED ON THE TRAY DRAWINGS.

DETAIL E
TYPICAL ARRANGEMENT - COVERS (SEE NOTES 15, 16, AND 27)



DETAIL B
SEE NOTE 13



DETAIL C
SEE NOTES 5, 12, AND 13

K — NUMBERS ASIDE OF SYMBOLS INDICATE TRAY NUMBERS AND WIDTHS. LETTERS INSIDE SYMBOLS INDICATE NUCLEAR SAFETY RELATED DIVISION, NON-NUCLEAR SAFETY RELATED DIVISION OR NON-NUCLEAR SAFETY RELATED NOT REQUIRING ANY PARTICULAR DIVISION

NOTES:-(CONTINUED)

26. WHEN THE INSTALLATION REQUIRES FIELD CUTTING OF STRAIGHT LENGTHS OF SAFETY RELATED LADDER TYPE PRIMER OR COVERED CABLE TRAYS, EITHER OF THE FOLLOWING SHALL APPLY AT THE OPTION OF THE CONTRACTOR:
   1. A MAXIMUM RUNG SPACING OF 12" (IN LIEU OF 9" MAXIMUM) MAY BE USED AT TRAY FITTINGS WHEN BOTH OF THE FOLLOWING CONDITIONS ARE SATISFIED -
      A. THE TRAY SPLICE JOINT NEAREST THE FIELD CUT SHALL BE SUPPORTED WITHIN 3" OF THE JOINT.
      B. THE MAXIMUM SUPPORT SPACING BETWEEN THE SUPPORT NEAREST THE SPLICE JOINT AND THE SUPPORT ON THE OPPOSITE SIDE OF THE SPLICE JOINT DOES NOT EXCEED 9'-9".
   2. THE CONTRACTOR MAY ADD ADDITIONAL TRAY RUNGS BY FIELD WELDING IN ORDER TO ACHIEVE 9" MAXIMUM RUNG SPACING. THE WORK SHALL BE DONE TO A PROCEDURE WHICH HAS BEEN APPROVED BY THE PROJECT ORGANIZATION.

   WHEN THE INSTALLATION REQUIRES FIELD CUTTING OF STRAIGHT LENGTHS OF SAFETY RELATED, SOLID BOTTOM INSTRUMENT TRAY IN ORDER TO PROPERLY FIT UP TRAY FITTINGS, THE MAXIMUM CLEAR SPACING BETWEEN THE OVERSIZED "END" RUNGS OF THE FITTING AND THE FIRST REGULAR RUNG (U-44 CHANNEL RUNG) ON THE STRAIGHT SECTION SHALL BE 12-1/2".

   THE ABOVE RUNG SPACING CRITERIA SHALL NOT APPLY AT VERTICALLY OR HORIZONTALLY ADJUSTABLE SPLICE PLATE LOCATIONS. STRAIGHT LENGTHS OF TRAY ATTACHING TO THESE FITTINGS MAY BE FIELD CUT TO ANY LENGTH AS LONG AS THE CLEAR SPACING TO THE FIRST RUNG ON THE STRAIGHT SECTION DOES NOT EXCEED 4-1/2" FOR LADDER TRAY AND 12-1/2" TO THE FIRST U-44 CHANNEL RUNG FOR SOLID BOTTOM TRAY.

   FOR NON-SAFETY RELATED TRAY INSTALLATION, THE FOLLOWING SHALL APPLY:
   1. LADDER TYPE TRAY - MAXIMUM RUNG SPACING OF FIELD CUTS SHALL BE 12".
   2. SOLID BOTTOM TRAY - THE TRAY MAY BE FIELD CHANGED AS REQUIRED TO PROVIDE PROPER FIT UP.
27. CONTROL TRAYS (OUTDOORS) TO HAVE SOLID, REMOVABLE, PEAKED, FLUSH COVERS (SEE DETAIL E), WHERE INDICATED (SEE LEGEND FOR SYMBOL).
28. FOR NON-SAFETY/NON-SEISMIC TRAY ONLY, THE CONTRACTOR MAY MODIFY FITTINGS FOR LADDER AND SOLID BOTTOM TYPE TRAY AS REQUIRED BY FIELD CUTTING AND REWELDING IN ORDER TO REDUCE STANDARD FITTING WIDTHS AND ALLOW SUBSTITUTION FOR SMALLER WIDTH FITTINGS WHICH ARE NOT READILY AVAILABLE TO SUPPORT FIELD INSTALLATIONS. AFTER CUTTING, ALL FITTINGS SHALL BE REWELDED USING THE TYPICAL WELDS AS PROVIDED BY VENDOR SUPPLIED TRAY, UNLESS APPROVED OTHERWISE BY THE ENGINEER. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH APPROVED WELDING PROCEDURES. IN ADDITION TO THE ABOVE, 90° ELBOW FITTINGS (OR ANY OTHER DEGREE FITTINGS AS APPROPRIATE) MAY BE CUT AS REQUIRED TO OBTAIN ELBOW FITTINGS OF A LESSER DEGREE OF BEND.

NOTES:-

1. ALL SOLID BOTTOM TRAYS TO BE LADDER TYPE WITH 3 INCH USABLE DEPTH (INSIDE DIMENSION), AND 36 INCH RADIUS FITTINGS, UNLESS OTHERWISE NOTED. (MAXIMUM RUNG SPACING 9").
2. ALL SOLID LADDER POWER TRAYS TO BE LADDER TYPE WITH 3 INCH USABLE DEPTH (INSIDE DIMENSION), AND 24 INCH RADIUS FITTINGS, UNLESS OTHERWISE NOTED. (MAXIMUM RUNG SPACING 9").
3. ALL SOLID LADDER POWER AND CONTROL TRAYS TO BE LADDER TYPE WITH 3 INCH USABLE DEPTH (INSIDE DIMENSION), AND 24 INCH RADIUS FITTINGS, UNLESS OTHERWISE NOTED. (MAXIMUM RUNG SPACING 9")
4. SPLICES FOR SEISMIC SUPPORTED 36 INCH WIDE TRAY SHALL BE MADE BY MEANS OF TWO SPLICE PLATES ON BOTH SIDES OF TRAY.
5. MAXIMUM ANGLE OF HORIZONTAL TRAY RUNS ARE TO THE CENTER LINE OF TRAY. (EXCEPT FOR RADII - SEE DETAIL "C").
6. MAXIMUM ANGLE ALLOWED FOR VERTICAL TRAY RUNS ARE TO THE OUTSIDE BOTTOM OF TRAY.
7. (BLANK)
8. POWER OR CONTROL TRAYS, WHICHEVER IS THE TOP TRAY, SHALL HAVE ELEVATED, REMOVABLE, FLAT, SOLID COVERS WHEN RUN UNDER OPERATING PLATFORMS. COVER SHALL BE AS WIDE AS THE WIDEST TRAY IN THE STACK.
9. ALL BARRIERS SHOWN OUTSIDE OF TRAYS ARE FIRE BARRIERS PLACED BETWEEN TRAYS OF DIFFERENT DIVISIONS OR BETWEEN ANY DIVISION AND NON-DIVISIONAL TRAYS OR BETWEEN UNIT 1 AND UNIT 2 TRAYS (EXCEPT NON-DIVISIONAL), UNLESS OTHERWISE SPECIFIED AS MISSILE BARRIER.
10. VERTICAL TRAYS PENETRATING FLOORS SHALL HAVE VENTILATED, FLAT, FLUSH COVERS INSTALLED FOR A DISTANCE OF 6 FEET UP FROM THE FLOOR. (EXCEPT INSTRUMENT TRAYS)
11. ALL TRAYS ENTERING ELECTRICAL EQUIPMENT SHALL BE TERMINATED WITH "TRAY TO BOX CONNECTORS".
12. 6 INCHES HAS BEEN USED AS THE LARGEST POSSIBLE OFFSET PAST THE POINT OF TANGENCY FOR ALL FITTING DIMENSIONS. IN THE EVENT THAT A FITTING HAS AN OFFSET PAST THE POINT OF TANGENCY, WHICH IS LESS THAN 6 INCHES, THE INSTALLING CONTRACTOR SHALL ADJUST THE DIMENSIONS SHOWN ON THE DRAWINGS TO COMPENSATE FOR THE SMALLER OFFSET. (SEE DETAIL "C")
13. DIMENSIONS IN PLAN VIEW SHALL ALWAYS BE TO ONE W.P. (WORKING POINT) ONLY OF FITTINGS. W.P. IS ALWAYS THE POINT AT WHICH THE EXTENSION OF THE POINTS OF TANGENCY OF THE FITTING INTERSECT, AND AT THE BOTTOM OF THE TRAY ELEVATION SHOWN. (SEE DETAILS "B" AND "C").
14. TRAY WIDTH REDUCTIONS TO BE MADE WITHOUT USE OF FITTINGS. REDUCER CONNECTOR PLATES TO BE USED TO JOIN TRAYS OF UNEQUAL WIDTHS. (TO INSURE ELECTRICAL CONTINUITY)
15. INSTRUMENT TRAYS TO HAVE SOLID, REMOVABLE, FLAT, FLUSH COVERS THROUGHOUT THE RUN. (SEE DETAIL "E"). INSTRUMENT TRAYS TO HAVE NO COVERS IN CONTROL ROOM CABLE SPREADING AREA.
16. POWER AND CONTROL TRAYS TO HAVE ELEVATED, REMOVABLE, FLAT, SOLID COVERS (SEE DETAIL "E") WHERE INDICATED (SEE LEGEND FOR SYMBOL).
17. TRAY NUMBERS THAT ARE DIFFERENT, SHOWN ON EITHER SIDE OF A FITTING, INDICATES THAT THE TRAY NUMBER CHANGES AT THE CENTER POINT OF THAT FITTING.
18. (BLANK)
19. TRAYS SHALL HAVE SELF-ADHERING MARKERS APPLIED PER NOTES 2,3, AND 4 ON DWG. D-214-002 AND MARKER INSTALLATION NOTES ON DWG. D-214-005. MARKERS ARE COLOR CODED AND SHALL IDENTIFY THE TRAY NUMBER AND TRAY SYMBOL.
20. (BLANK)
21. NON-SEISMIC TRAY SUPPORTS SHALL BE DESIGNED FOR A SAFETY FACTOR OF 2 TIMES THE DEAD LOAD WEIGHT OF THE TRAY AND CABLE. CABLE WEIGHT IN A TRAY SHALL BE CONSIDERED AS BE 25 POUNDS PER SQUARE FOOT OF TRAY AREA. THE DEAD LOAD WEIGHT SHALL ALSO INCLUDE AN ALLOWANCE OF 10 POUNDS PER FOOT OF LENGTH BETWEEN TRAY SUPPORTS FOR CONDUIT WEIGHT, AND THE WEIGHT OF A 200 POUND MAN. THE MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 10 FEET. EACH STRAIGHT RUN OF TRAY SHALL INCLUDE AT LEAST ONE SUPPORT WHICH IS CAPABLE OF RESTRICTING LONGITUDINAL MOVEMENT OF THE TRAY DUE TO CABLE PULLING. MAXIMUM CABLE TRAY CANTILEVERING DISTANCE SHALL BE 3 FEET, 4 INCHES.
22. FOR SEISMIC SUPPORTS, PLANS AND DETAILS, SEE GAWING SERIES 213-005. ATTACHMENT OF TRAYS TO SEISMIC SUPPORTS SHALL CONSIST OF WELDING THE TRAY SIDERAIL TO THE SUPPORT MEMBER USING TYPE E6OX. WELDING ELECTRODES.

REFERENCES:-

D-214-002	CABLE TRAY LAYOUT-DETAILS
D-214-012	CABLE TRAY LAYOUT-TURBINE BUILDING-EAST-EL. 577'-6"
D-214-013	CABLE TRAY LAYOUT-TURBINE BUILDING-EL. 577'-6"
D-214-014	CABLE TRAY LAYOUT-TURBINE BUILDING-WEST-EL. 577'-6"
D-214-021	CABLE TRAY LAYOUT-TURBINE BUILDING-LUBE OIL AREA-EL. 593'-6"
D-214-024	CABLE TRAY LAYOUT-TURBINE BUILDING-WEST-EL. 625'-6"
D-214-025	CABLE TRAY LAYOUT-TURBINE BUILDING-WEST-EL. 605'-6"
D-214-031	CABLE TRAY LAYOUT-TURBINE BUILDING-LUBE OIL AREA-EL. 624'-6"
D-214-032	CABLE TRAY LAYOUT-TURBINE BUILDING-EAST-EL. 624'-6"
D-214-033	CABLE TRAY LAYOUT-TURBINE BUILDING-EL. 624'-6"
D-214-034	CABLE TRAY LAYOUT-TURBINE BUILDING-EL. 624'-6"
D-214-035	CABLE TRAY LAYOUT-TURBINE BUILDING-WEST-EL. 624'-6"
D-214-036	CABLE TRAY LAYOUT-TURBINE BUILDING-LAYDOWN AREA-EL. 620'-6"
D-214-037	CABLE TRAY LAYOUT-MAIN TRANSFORMER AREA-EL. 620'-6"
P-214-054	CABLE TRAY LAYOUT-HEATER BAY-EAST-EL. 560'-6"
D-214-062	CABLE TRAY LAYOUT-HEATER BAY-WEST-EL. 560'-6"
D-214-063	CABLE TRAY LAYOUT-COSTE DEMIN AREA-EAST-EL. 568'-6" AND 593'-6"
D-214-064	CABLE TRAY LAYOUT-COSTE DEMIN AREA-EAST-EL. 580'-6"
D-214-065	CABLE TRAY LAYOUT-COSTE DEMIN AREA-WEST-EL. 568'-6" AND 568'-6"
D-214-066	CABLE TRAY LAYOUT-OFF-GAS BUILDING-EL. 564'-6"
D-214-067	CABLE TRAY LAYOUT-OFF-GAS BUILDING-EL. 602'-6"
D-214-071	CABLE TRAY LAYOUT-HEATER BAY-EAST-EL. 600'-6"
D-214-072	CABLE TRAY LAYOUT-HEATER BAY-WEST-EL. 600'-6"
D-214-074	CABLE TRAY LAYOUT-COSTE DEMIN AREA-EAST-EL. 593'-6"
D-214-075	CABLE TRAY LAYOUT-COSTE DEMIN AREA-WEST-EL. 593'-6"
D-214-081	CABLE TRAY LAYOUT-HEATER BAY-AUX. BOILER HOUSE-EAST-EL. 620'-6"
L-214-082	CABLE TRAY LAYOUT-HEATER BAY-WEST-EL. 620'-6"
D-214-084	CABLE TRAY LAYOUT-TURBINE POWER COMPLEX-EAST-EL. 620'-6"
D-214-085	CABLE TRAY LAYOUT-TURBINE POWER COMPLEX-WEST-EL. 620'-6"
D-214-091	CABLE TRAY LAYOUT-TURBINE BUILDING-EAST-EL. 605'-6"
D-214-097	CABLE TRAY LAYOUT-OFF-GAS BUILDING-EL. 635'-6"
D-214-081	CABLE TRAY LAYOUT-HEATER BAY-EAST-EL. 647'-6"
D-214-082	CABLE TRAY LAYOUT-HEATER BAY-WEST-EL. 647'-6"
D-214-084	CABLE TRAY LAYOUT-TURBINE POWER COMPLEX-EAST-EL. 647'-6"
D-214-085	CABLE TRAY LAYOUT-OFF-GAS BUILDING-EL. 620'-6"
D-214-023	CABLE TRAY LAYOUT-TURBINE BUILDING-EL. 605'-6"
D-214-038	CABLE TRAY LAYOUT-TURBINE BUILDING AUX PLAN-WEST-EL. 8'11"-6"
D-214-111	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-EL. 574'-10"-UNITS 1 & 2
D-214-112	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-EL. 574'-10"-UNITS 1 & 2
D-214-121	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-EL. 588'-0"-UNITS 1 & 2
D-214-122	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-EL. 588'-0"-UNITS 1 & 2
D-214-131	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-EL. 620'-6"-UNITS 1 & 2
D-213-132	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-EL. 620'-6"-UNITS 1 & 2
D-214-141	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-EL. 638'-6"-UNITS 1 & 2
D-214-142	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-EL. 638'-6"-UNITS 1 & 2
D-214-161	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-EL. 679'-6"-UNITS 1 & 2
D-214-162	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-EL. 679'-6"-UNITS 1 & 2
D-214-143	CABLE TRAY LAYOUT-CONTROL COMPLEX-CABLE CHASE-EL. 639'-6" AND EL. 654'-6"-UNITS 1 & 2
D-214-144	CABLE TRAY LAYOUT-CONTROL COMPLEX-EAST-AUXILIARY PLAN-EL. 638'-6" UNITS 1 & 2
D-214-145	CABLE TRAY LAYOUT-CONTROL COMPLEX-WEST-AUXILIARY PLAN-EL. 638'-6" UNITS 1 & 2

REFERENCES:-(CONTINUED)

D-214-004	CONDUIT AND TRAY SEPARATION CRITERIA
D-214-005	CONDUIT AND TRAY SEPARATION CRITERIA
D-214-221	CABLE TRAY LAYOUT-AUXILIARY BUILDING-EAST-EL. 559'-0" AND EL. 620'-6"
D-214-222	CABLE TRAY LAYOUT-AUXILIARY BUILDING-WEST-EL. 559'-0"
D-214-232	CABLE TRAY LAYOUT-AUXILIARY BUILDING-WEST-EL. 620'-6"
D-214-351	CABLE TRAY LAYOUT-REACTOR BUILDING-EAST-EL. 652'-2"
D-214-361	CABLE TRAY LAYOUT-REACTOR BUILDING-EAST-EL. 664'-7"
D-214-362	CABLE TRAY LAYOUT-REACTOR BUILDING-WEST-EL. 664'-7"
D-214-371	CABLE TRAY LAYOUT-REACTOR BUILDING-EAST-EL. 620'-6"
D-214-372	CABLE TRAY LAYOUT-REACTOR BUILDING-WEST-EL. 620'-6"
D-214-341	CABLE TRAY LAYOUT-REACTOR BUILDING-EAST-EL. 647'-0"
D-214-342	CABLE TRAY LAYOUT-REACTOR BUILDING-WEST-EL. 647'-0"
D-214-423	CABLE TRAY LAYOUT-FUEL HANDLING AREA-EAST-EL. 599'-0"-UNITS 1 & 2
D-214-424	CABLE TRAY LAYOUT-FUEL HANDLING AREA-WEST-EL. 599'-0"-UNITS 1 & 2
D-214-411	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 574'-10"-UNITS 1 & 2
D-214-412	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 574'-10"-UNITS 1 & 2
D-214-421	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 599'-0"-UNITS 1 & 2
D-214-422	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 599'-0"-UNITS 1 & 2
D-214-431	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 620'-6"-UNITS 1 & 2
D-214-432	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 620'-6"-UNITS 1 & 2
D-214-441	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 639'-6"-UNITS 1 & 2
D-214-442	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 639'-6"-UNITS 1 & 2
D-214-451	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 654'-6"-UNITS 1 & 2
D-214-452	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 654'-6"-UNITS 1 & 2
D-214-471	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-NORTH-EL. 682'-6"-UNITS 1 & 2
D-214-472	CABLE TRAY LAYOUT-INTERMEDIATE BUILDING-SOUTH-EL. 682'-6"-UNITS 1 & 2
D-214-434	CABLE TRAY LAYOUT-FUEL HANDLING AREA-WEST-EL. 620'-6"-UNITS 1 & 2
D-214-511	CABLE TRAY LAYOUT-RADWASTE BUILDING-EAST-EL. 574'-10"-UNITS 1 & 2
D-214-512	CABLE TRAY LAYOUT-RADWASTE BUILDING-EL. 574'-10"-UNITS 1 & 2
D-214-513	CABLE TRAY LAYOUT-RADWASTE BUILDING-WEST-EL. 574'-10"-UNITS 1 & 2
D-214-521	CABLE TRAY LAYOUT-RADWASTE BUILDING-EAST-EL. 602'-6"-UNITS 1 & 2
D-214-522	CABLE TRAY LAYOUT-RADWASTE BUILDING-EL. 602'-6"-UNITS 1 & 2
D-214-531	CABLE TRAY LAYOUT-RADWASTE BUILDING-EAST-EL. 623'-6"-UNITS 1 & 2
D-214-532	CABLE TRAY LAYOUT-RADWASTE BUILDING-EL. 623'-6"-UNITS 1 & 2
D-214-533	CABLE TRAY LAYOUT-RADWASTE BUILDING-WEST-EL. 623'-6"-UNITS 1 & 2
D-214-545	CABLE TRAY LAYOUT-RADWASTE BUILDING-WEST-EL. 649'-6"-UNITS 1 & 2
D-214-611	CABLE TRAY LAYOUT-DIESEL GEN BUILDING-EL. 620'-6"-UNIT 1
D-214-612	CABLE TRAY LAYOUT-DIESEL GEN BUILDING-EL. 620'-6"-UNIT 2
D-214-651	CABLE TRAY LAYOUT-SECTIONS AND DETAILS - UNITS 1 & 2
D-214-652	CABLE TRAY LAYOUT-SECTIONS AND DETAILS - UNITS 1 & 2
E-214-613	CABLE TRAY LAYOUT-SERVICE BUILDING AND OUTDOOR AREA - UNITS 1 & 2
D-228-102	CABLE TRAY LAYOUT-SERVICE WATER PUMP HOUSE-EL. 581'-4" TO 629'-0"
D-229-301	CABLE TRAY LAYOUT-CIRCULATING WATER PUMP HOUSE-EL. 621'-6" AND 676'-6"
D-226-501	CABLE TRAY LAYOUT-EMERGENCY SERVICE WATER PUMP HOUSE-EL. 586'-0"
D-228-601	CABLE TRAY LAYOUT-WATER TREATING BUILDING-EL. 620'-6"
D-231-311	CABLE TRAY LAYOUT - TECHNICAL SUPPORT CENTER - EAST - EL. 603'-5"
D-231-312	CABLE TRAY LAYOUT - TECHNICAL SUPPORT CENTER - WEST - EL. 603'-6"

NOTES:-(CONTINUED)

23. ALL INSTRUMENT TRAYS TO BE LADDER TYPE (WITH A SOLID CORRUGATED STEEL BOTTOM WELDED TO SIDE RAILS AND 3/8" RODS ON 18" CENTERS TO ACCOMMODATE CABLE TIES) WITH 3" MINIMUM USABLE DEPTH (INSIDE DIMENSION) AND 12 INCH RADIUS FITTINGS, UNLESS OTHERWISE NOTED (MAXIMUM RUNG SPACING 12") FOR SECURING INSTRUMENT CABLE IN VERTICAL INSTRUMENT TRAY. SEE DETAIL "D" DWG. D-214-002.
24. A BASKET WEAVE TYPE CABLE TRAY SHALL BE INSTALLED ON CABLES IN VERTICAL RACEWAY RUNS (IF GREATER THAN 20 FEET) TO SUPPORT THE WEIGHT OF THE CABLE. ONE CABLE SUPPORT SHALL BE PROVIDED AT THE TOP OF THE VERTICAL RACEWAY (SEE DETAIL "E", DWG. D-214-002). A SUPPORT FOR EACH ADDITIONAL INTERVAL OF SPACING (AS SPECIFIED IN TABLE 1, DWG. D-214-002) IS REQUIRED, EXCEPT WHEN THE TOTAL VERTICAL RISER IS LESS THAN 25% OF THE SPACING. (SEE DETAIL "F", DWG. D-214-002). THESE SUPPORTS ARE IN ADDITION TO THE CABLE TIES, INSTALLED AT 36 INCH MAXIMUM SPACING, TO THE RUNGS.
25. WALL AND FLOOR OPENINGS ARE IDENTIFIED BY DISCIPLINE, AREA, LEVEL AND NUMBER.

e.g.: OPENING IDENTIFICATION FORMAT
AREA — LEVEL
DISCIPLINE — NUMBER
E AB 001

ADDED REFERENCES AT COORD. H4.	REVISED REFERENCES AT COORDS. G6,H4.
REVISED NOTE #26 AT COORD. B4; ADDED NOTE #28 AT COORD. C1 AS PER ECN #5466-93-9754 ECN #5457-94-059.	REVISED LEGEND AT COORD. B4; DETAIL "A" AT COORD. H4; DETAIL "B" AT COORDS. H2,K10 AND REFERENCES AT COORD. E2. ADDED NOTE #29.
REVISED NOTE #25 AT COORD. A2 & NOTE #26 AT COORD. A11 AS PER ECN #5409-93-9747 ECN #5404-94-025.	ADDED NOTE #26 AS PER ECN #2115-93-1734 & ECN #2210-94-55; REV. NOTE #12 AS PER ECN #1715-93-96 & ECN #2116-94-27; REVISED DETAIL A AT COORD. H12.
	REVISED NOTES #4, #9, #10, #19, #21, #23 & #24. ADDED NOTE #27. REVISED LEGEND AT COORD. E10; ADD TRAY SYMBOLS AT COORDS. A11, B4, B11, C4, C11, D4, D11 & E4. REVISED TRAY SYMBOLS AT COORDS. C6, C9, D6, D9. REVISED DETAIL D AT COORD. B13. REVISED DETAIL D AT COORD. B13. CHANGED NOTE #3 AS PER ECN #2210-94-55. ADDED REFERENCES AT COORDS. E1, E5 & E6.
REVISED NOTES #11 & #12. REPLACED & ADDED NOTES #21 & #22.	
RELEASED FOR CONSTRUCTION. REVISED DETAILS A & B. ADDED NOTES #3, #6, #7, #8, #10 & #11.	
REVISED LEGEND, DETAILS, REFERENCES & NOTES #1, #2 & #16. ADDED NOTES #20 & #21.	
REVISED NOTES #1, #2 & #16. ADDED NOTES #1 & #2. REFERENCES.	
REVISED LEGEND, NOTES, REFERENCES & DETAILS A, B, C & D.	

NO	DATE	RAM	CHKD	APPROVALS
A	7/94	AD	CLS	
B	7/94	TL	CLS	
C	7/94	TL	CLS	
D	7/94	TL	CLS	
E	7/94	TL	CLS	
F	7/94	TL	CLS	
G	7/94	TL	CLS	
H	7/94	TL	CLS	
J	7/94	TL	CLS	
K	7/94	TL	CLS	
L	7/94	TL	CLS	

REVISIONS

NUCLEAR SAFETY RELATED

PRC APERTURE CARD

5/6/76	CONSTRUCTION
	LIMITED CONSTRUCTION: AS NOTED
	PRELIMINARY NOT FOR CONSTRUCTION
11/8/76	BIDDING PURPOSES #9352
DATE	RELEASED FOR ENGR.

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

PERRY NUCLEAR POWER PLANT UNIT 1

ELECTRICAL

CABLE TRAY LAYOUT

LEGEND, NOTES, REFERENCES, AND STANDARD DETAILS

GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS

DRAWN	CHECKED	DATE	SUPERVISOR	DATE	SUPERVISOR	DATE
		N/A		N/A		N/A

SCALE NONE | 04 | 4545 | D-214-001 | P

DRAWING NUMBER | REV.

34"

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