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- Diagram of a 12' x 12' x 18" concrete pile cap. The cap is shown in cross-section with a grid of 15 conduits (12 active, 3 spare) and 3000 PSI concrete. Dimensions are given as 3" spacing between conduits and 2" spacing between active conduits. A pull rope is provided in all conduits.



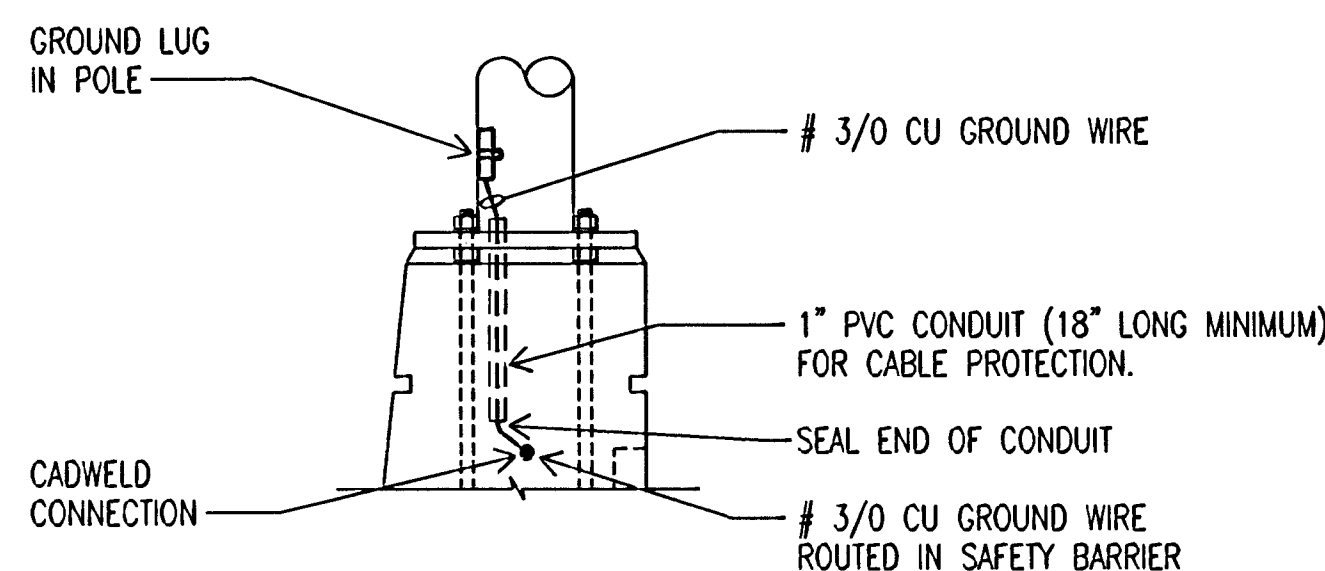
- ① PROVIDE EACH FIXTURE WITH (3) FILTERS. (1) CLEAR, (2) COLORED. (COLORS TO BE SELECTED BY ARCHITECT).
- ② PROVIDE EACH FIXTURE WITH (3) FILTERS. (1) CLEAR, (2) COLORED. (COLORS TO BE SELECTED BY ARCHITECT).
- ③ PROVIDE POLE WITH HAND HOLE AND DR-GFI OPTION - RECEPTACLE SHALL BE EQUAL TO P & S #2091S.
- ④ METAL HALIDE LAMPS SHALL BE EQUAL TO PHILLIPS PROTECTED MASTER COLOR.
- ⑤ APPROVED EQUAL: U.S. ARCHITECTURAL LIGHTING # 448S PL13120EB. (COLOR AS SELECTED BY ARCHITECT).
- ⑥ MANUFACTURERS LISTED IN THIS SCHEDULE OR EQUALS APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

SYMBOL	DESCRIPTION	Mounting
○ _A (A)	LIGHT FIXTURE & FIXTURE LETTER	CEILING
(A) →	LIGHT FIXTURE & FIXTURE LETTER	WALL
WP	WEATHERPROOF	
AFF	ABOVE FINISHED FLOOR	
U.O.N.	UNLESS OTHERWISE NOTED	
⊖	GROUND FAULT DUPLEX RECEPTACLE	1'-5" A.F.F.
□	SPECIAL DEVICE (AS NOTED)	
⊞	JUNCTION BOX	
⊞	FUSTAT BUSS #SSY	
— 'A'	BRANCH CIRCUIT PANEL & PANEL DESIG.	6'-0" TO TOP
	ELECTRICAL DISTRIBUTION EQUIPMENT	
[1]	FEEDER DESIGNATION	
	CONDUIT RUN 2 #12 & 1 #12 GRD. - 1/2"C.	CEIL./WALL
	CONDUIT RUN 2 #12 & 1 #12 GRD. - 3/4"C.	EARTH/CONCRETE
	CONDUIT RUN 2 CIRCUITS, 3 #12 & 1 #12 GRD. - 3/4"C.	EARTH/CONCRETE
	CONDUIT RUN PARTIAL CIRCUIT	
	SEE GENERAL NOTE 6	
	CONDUIT RUN TWO (2) CIRCUITS	CEILING/WALL
	PHASE CONDUCTORS (#12 U.O.N.)	
	NEUTRAL CONDUCTOR (#12 U.O.N.)	
	- SWITCH LEGS (#12 U.O.N.)	
	- GROUND CONDUCTOR (#12 U.O.N.)	

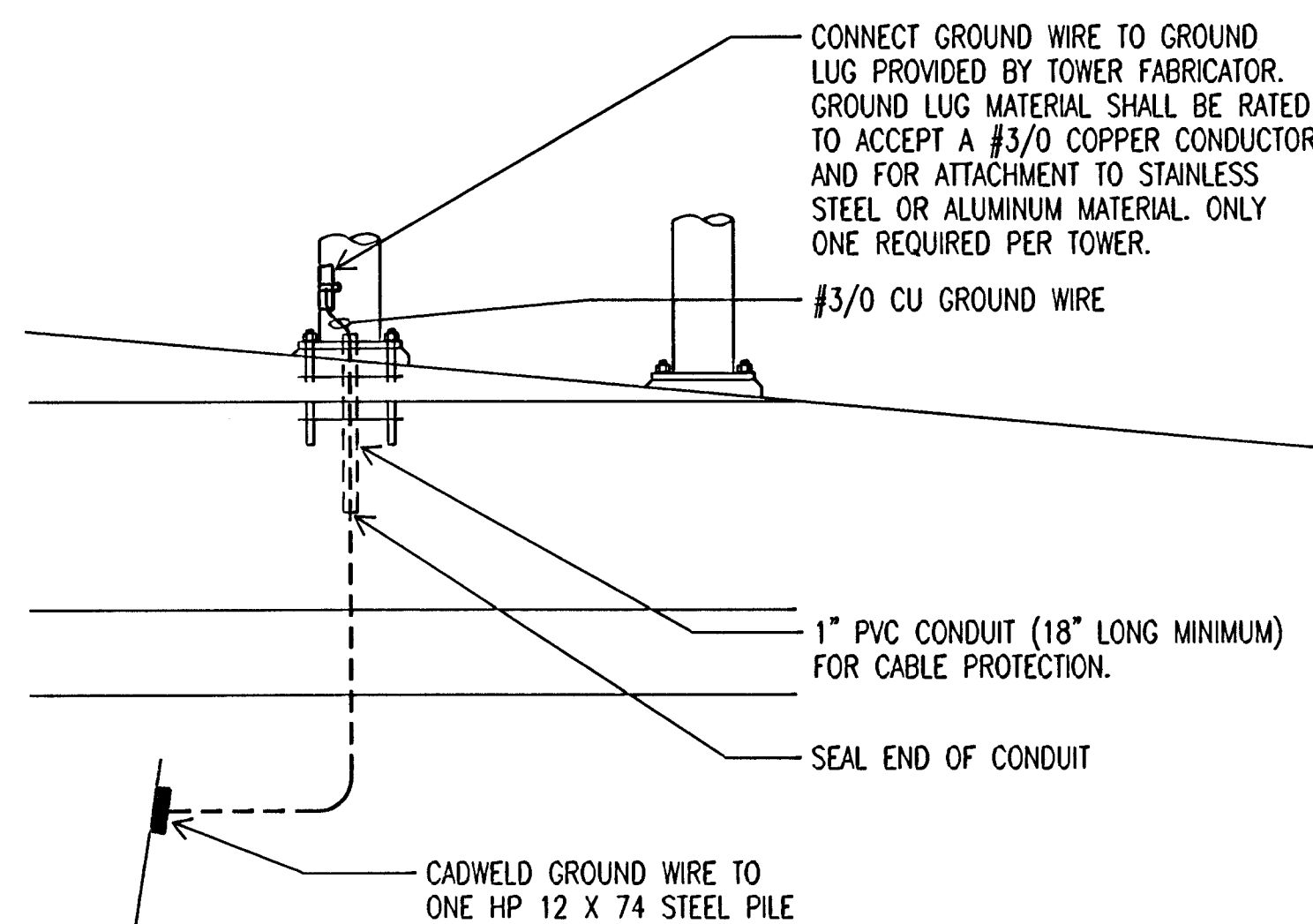
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITY ACT (ADA).
2. REFER TO RELATED ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
4. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
5. ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
6. CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250-95. CONDUIT SIZE AS REQUIRED.
7. SEPARATE GREEN GROUND CONDUCTOR SHALL BE ROUTED IN ALL CONDUITS WITH ALL PHASE CONDUCTORS.
8. WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.



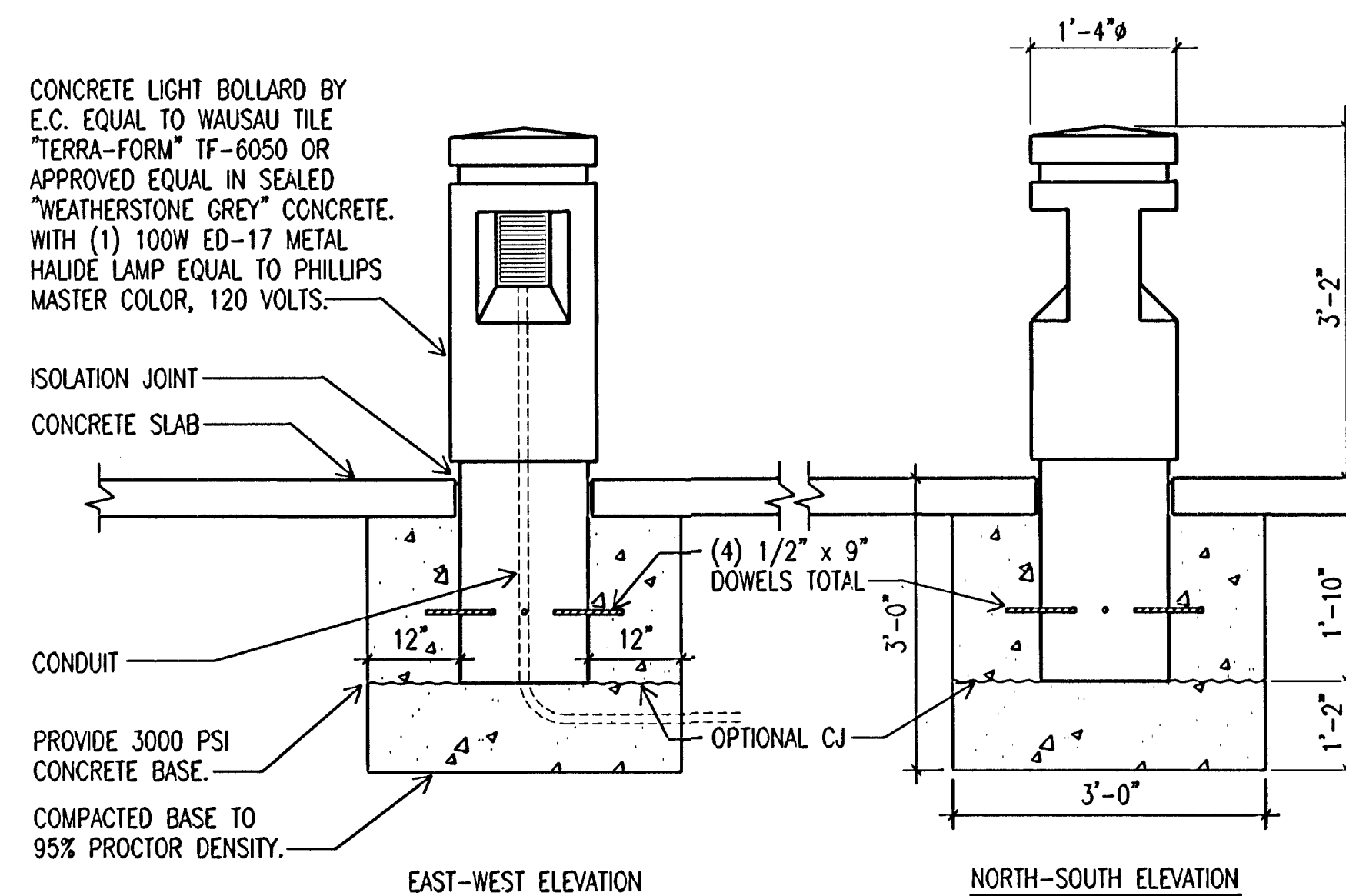
1. CONCRETE ENCASED DUCT ENTRANCE ONLY AT SOUTH PULL BOX.
2. PROVIDE SIMILAR FLEXIBLE CONNECTIONS FOR ALL CONDUITS PASSING FROM ONE ISOLATED STRUCTURE TO THE OTHER. LEAVE 6" OF SLACK MINIMUM TO ALLOW FOR MOVEMENT OF STRUCTURES.
3. PROVIDE (1) 1-1/4" EMPTY CONDUIT WITH PULL STRING BETWEEN NORTH AND SOUTH PULL BOXES IN ADDITION TO THE REQUIRED BRANCH CIRCUITS CONDUITS.
4. ALL SPLICES SHALL BE WATERTIGHT AND MADE WITH SHRINK WRAP MATERIALS.



4 GROUNDING DETAIL FOR FIXTURE 'P' POLES
E1 E1 N.T.S.



5 TOWER GROUNDING DETAIL (TYPICAL OF 8)
E1 E1 N.T.S.



6 TYP. LIGHT BOLLARD
E1 E3 N.T.S.

LIGHTS TO ILLUMINATE UP & DOWN
STATION (APPROX EAST & WEST)

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER
DOUGLAS AVENUE BRIDGE
OVER ARKANSAS RIVER

CITY OF WICHITA PROJECT NO. 472-82721

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Designed by	DCG	Checked by	DCG
Drawn by	MOB	Date	SEPT. 1997
		Job No.	95088-4