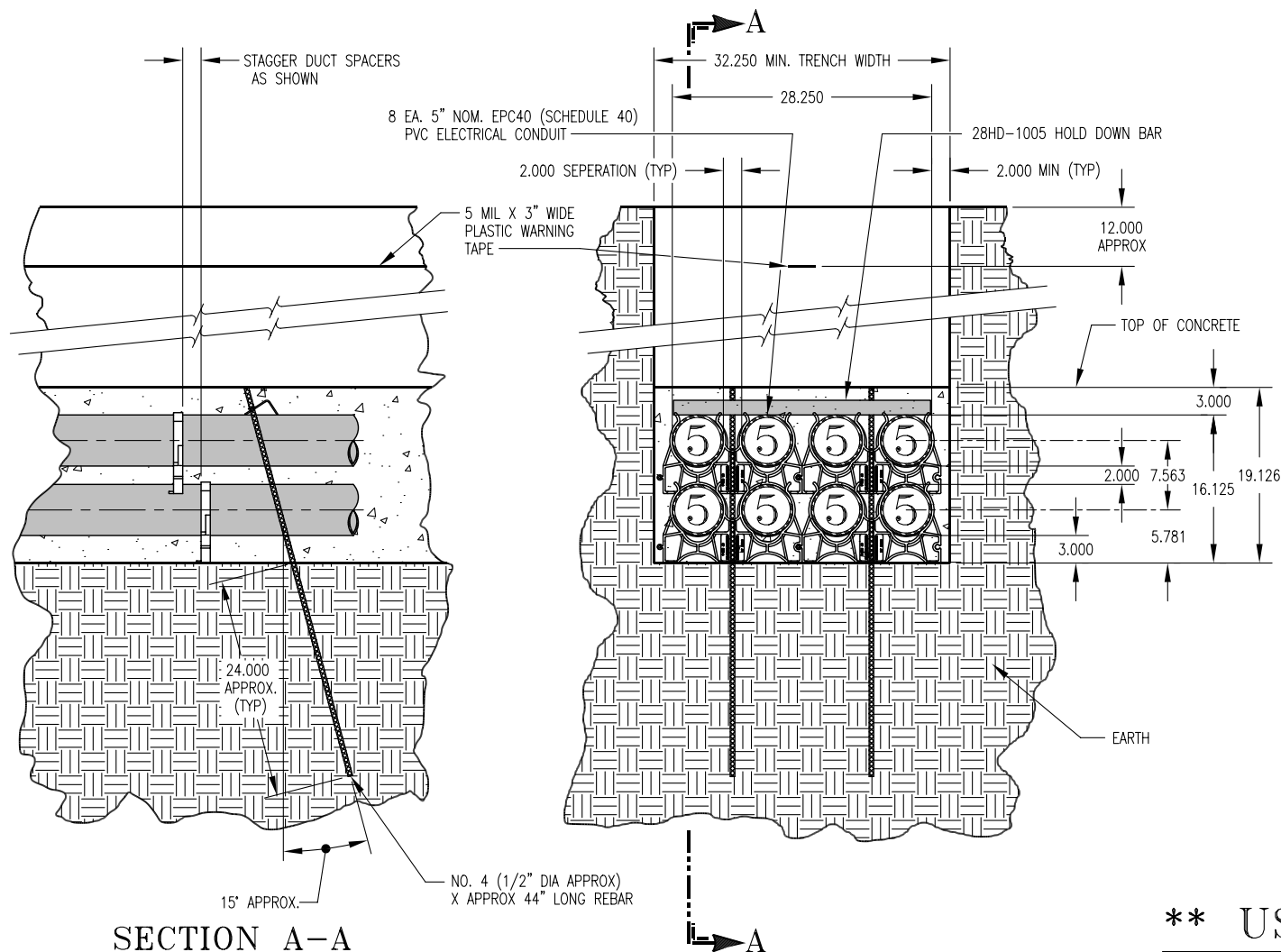




GUIDE SPECIFICATION & RELATED NOTES:

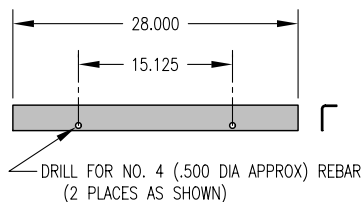
1. DUCT BANK SHALL BE ENCASED IN CONCRETE WITH AT LEAST THREE INCHES OF CONCRETE AT THE TOP AND BOTTOM AND TWO INCHES ON EACH SIDE. A HORIZONTAL AND VERTICAL SEPARATION BETWEEN THE DUCTS OF TWO INCHES SHALL BE MAINTAINED BY INSTALLING UNDERGROUND DEVICES HIGH IMPACT POLYSTYRENE WUNPEECE SPACERS. SPACERS SHALL BE INTERLOCKED HORIZONTALLY ONLY. ALONG THE DUCT RUN SPACERS SHALL BE STAGGERED VERTICALLY AND SHALL BE PLACED AT AN INTERVAL OF FOUR SPACERS PER 20 FEET (5 FEET APART).
2. THE CONCRETE SHALL INCORPORATE 3/8" AGGREGATE WITH A NOMINAL COMPRESSIVE STRENGTH OF 2,500 LBS. PER SQUARE INCH. THE SLUMP SHALL BE AT THE UPPER END OF THE RANGE, PREFERABLY 7 TO 8 INCHES. IT SHOULD HAVE JUST ENOUGH SLUMP TO FLOW TO THE BOTTOM OF THE DUCT BANK AND YET NOT BE SO WET AS TO CAUSE THE CONDUITS TO FLOAT EXCESSIVELY.
3. WHEN PLACING CONCRETE AROUND CONDUITS ADJUST THE DELIVERY CHUTE SO THE FALL OF THE CONCRETE INTO THE TRENCH IS MINIMAL. POUR THE CONCRETE SLOWLY AND DISTRIBUTE IT EVENLY SO AS NOT TO DISLodge THE SPACERS.
4. THE DUCT BANK SHOULD BE OF MONOLITHIC CONSTRUCTION.
5. FOUR SETS OF REBAR STAKES AND HOLD DOWN BARS SHOULD BE USED PER 20 FEET OF DUCT BANK. (SEE NOTE 6 BELOW)
6. THE LENGTH AND FREQUENCY OF THE REBAR SHOWN IN THIS DRAWING IS ONLY AN ESTIMATE. THE ACTUAL LENGTH AND FREQUENCY USED DEPENDS ON THE CHARACTERISTICS OF THE EARTH WHERE THE DUCT BANK IS BEING INSTALLED.
7. THE REBAR STAKES AND HOLD DOWN BARS ARE REQUIRED TO PREVENT THE FLOTATION OF THE DUCT BANK. FLOTATION IS CAUSED BY DUCT BUOYANCY AND CHURNING OF THE CONCRETE DURING THE POUR.
8. THE THREE INCH EXTENSION OF REBAR ABOVE THE DUCTS IS TO BE USED AS A CONCRETE GAGE.

**** US PATENT 265,052 ****

THIS INFORMATION IS BASED ON OUR EXPERIENCE TO DATE AND WE BELIEVE IT TO BE RELIABLE. IT IS INTENDED ONLY AS A GUIDE FOR USE AT YOUR DISCRETION AND RISK. WE CANNOT GUARANTEE FAVORABLE RESULTS AND ASSUME NO LIABILITY IN CONNECTION WITH ITS USE OR USE OF THE PRODUCTS DESCRIBED.

HOLD DOWN BARS USED IN THIS DUCT BANK:

QUANTITY SHOWN BELOW IS THE QUANTITY REQUIRED PER 20 FEET OF DUCT BANK WHEN FOUR HOLD DOWN BARS ARE USED PER 20 FEET.



CATALOG NO. 28HD-1005 (4 REQ'D)

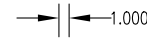
WUNPEECE SPACERS USED IN THIS DUCT BANK:

PLACE SPACERS 5 FEET APART.
8 Ea. 5W20-4 WUNPEECE SPACERS ARE
REQUIRED FOR 20 FOOT LENGTH OF DUCT BANK.



CATALOG NO. 5W20-4

SCALE:



WUNPEECE® INSTALLATION DRAWING

8 Ea. 5" EPC40 (Sch.40) PVC Conduits - 4 Across x 2 High - 2" Separation

SCALE: See At Left DESIGNED BY: Don McCoy DETAIL BY: Alan Armstrong CHECKED BY: Don McCoy

DATE: 10-17-96 APPROVED BY: REVISION:

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