

## R-4995 &amp; R-4996

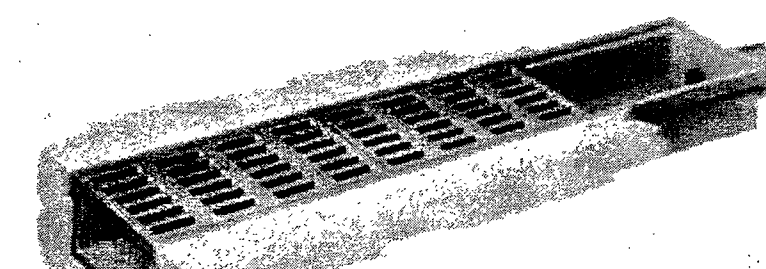
Type M Trench Frame with Solid or Grated Cover

Cast iron trench assemblies—light or heavy duty—for use in sidewalks, driveways, garages, loading docks, etc.

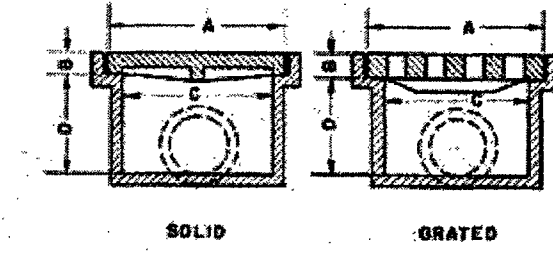
Read Carefully Before Ordering

Specify:

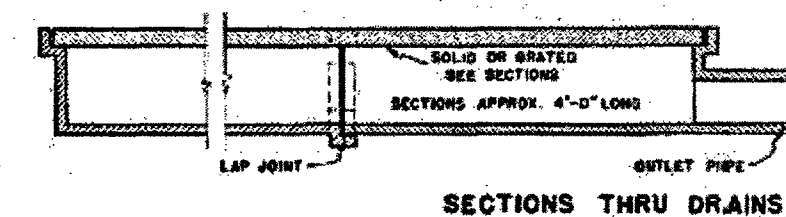
- Complete catalog number.
- Light or heavy duty.
- Overall length of cover required.
- Lid solid, flat grates, or diagonally barred convex grates.
- Location of outlet, side, bottom or end (give dimensional location and pipe size).
- Whether one end or both ends are able to be open or closed.



Illustrating Type M frame with grated cover. Standard with 4-inch outside caulk outlet. Can be equipped for inside caulk if specified.

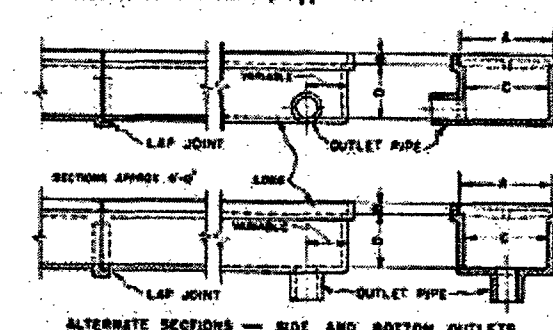


Trench covers are used over areas requiring long drainage assemblies. Can be supplied in a variety of sizes and lengths to meet special needs. For trenches of irregular pattern, arrangements can be made to furnish cover to fit.



SECTIONS THRU DRAINS

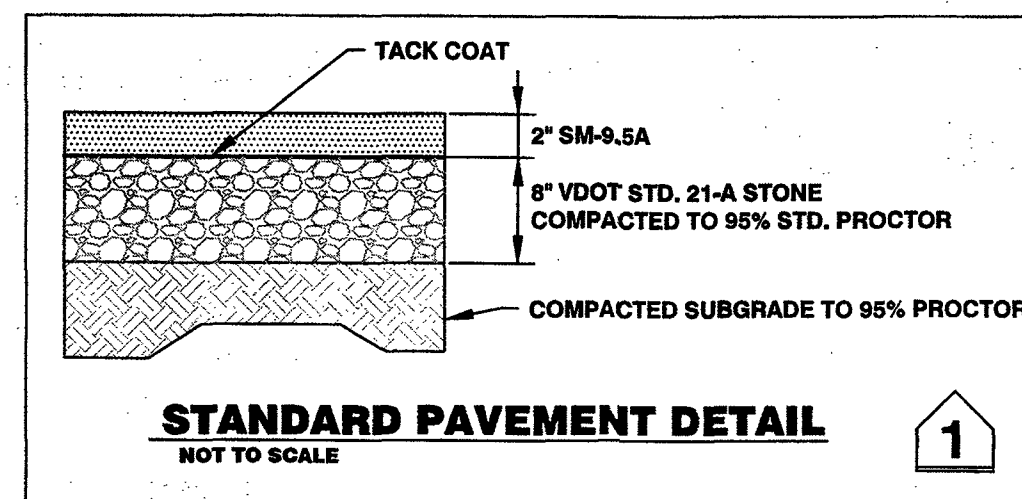
Sections: Thru Drains, Type M



Standard 4-inch outlet at end of drain. Special size outlets are available on special order. Side and bottom outlets optional and furnished only when specified.

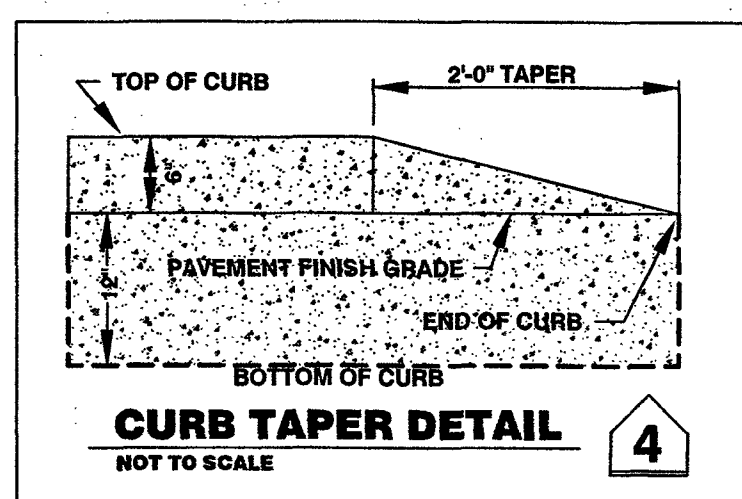
| Catalog Number                   | Description       | A      | B     | C  | D     | Length     |
|----------------------------------|-------------------|--------|-------|----|-------|------------|
| <b>Standard Sizes—Light Duty</b> |                   |        |       |    |       |            |
| R-4995-A1                        | with grates cover | 11-1/2 | 3/4   | 10 | 6-3/4 | as ordered |
| R-4995-A2                        | with grates cover | 7      | 3/4   | 5  | 4-3/4 | as ordered |
| R-4995-B1                        | with solid cover  | 11-1/2 | 3/4   | 10 | 6-3/4 | as ordered |
| R-4995-B2                        | with solid cover  | 7      | 3/4   | 5  | 4-3/4 | as ordered |
| <b>Standard Sizes—Heavy Duty</b> |                   |        |       |    |       |            |
| R-4996-A1                        | with grates cover | 11-1/2 | 1-1/2 | 10 | 6     | as ordered |
| R-4996-A2                        | with grates cover | 7      | 1-1/2 | 5  | 4-1/4 | as ordered |
| R-4996-B1                        | with solid cover  | 11-1/2 | 1-1/2 | 10 | 6     | as ordered |
| R-4996-B2                        | with solid cover  | 7      | 1-1/2 | 5  | 4-1/4 | as ordered |

Above standard frames made in 4 ft. sections, covers in 2 ft. lengths  
 \* Available with type B grate only  
 \* Also available with type P grate.



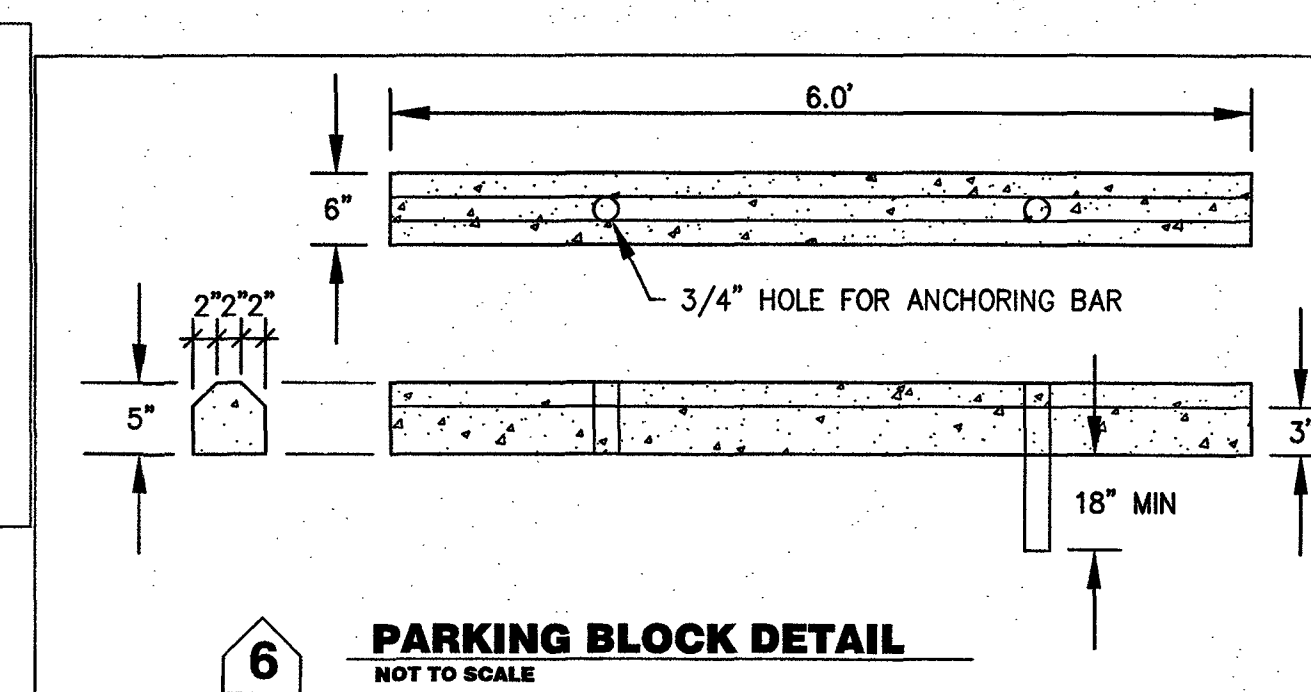
STANDARD PAVEMENT DETAIL

1



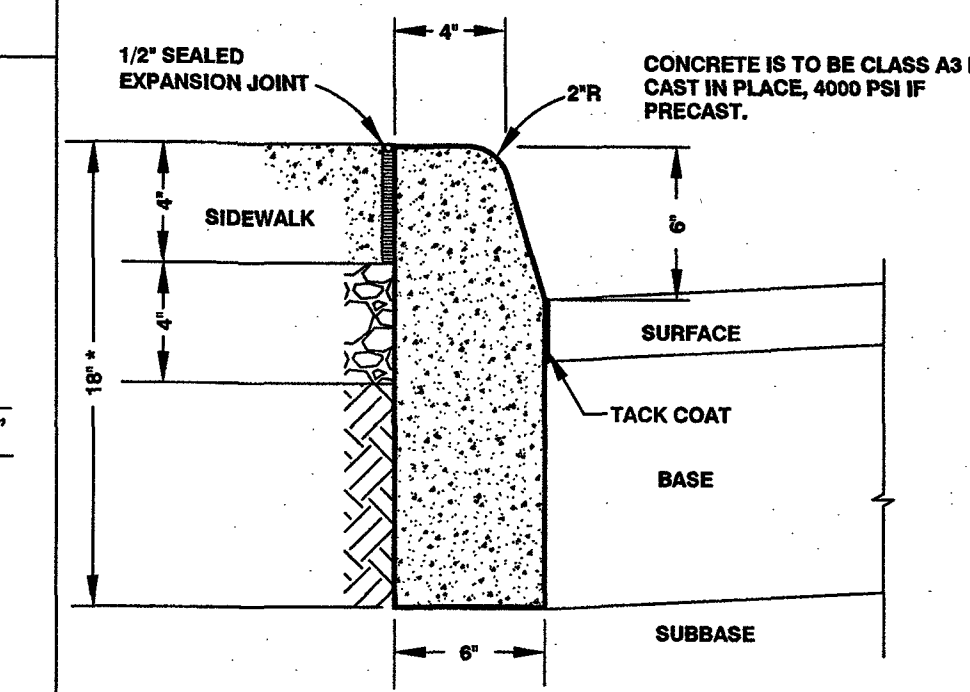
CURB TAPER DETAIL

4



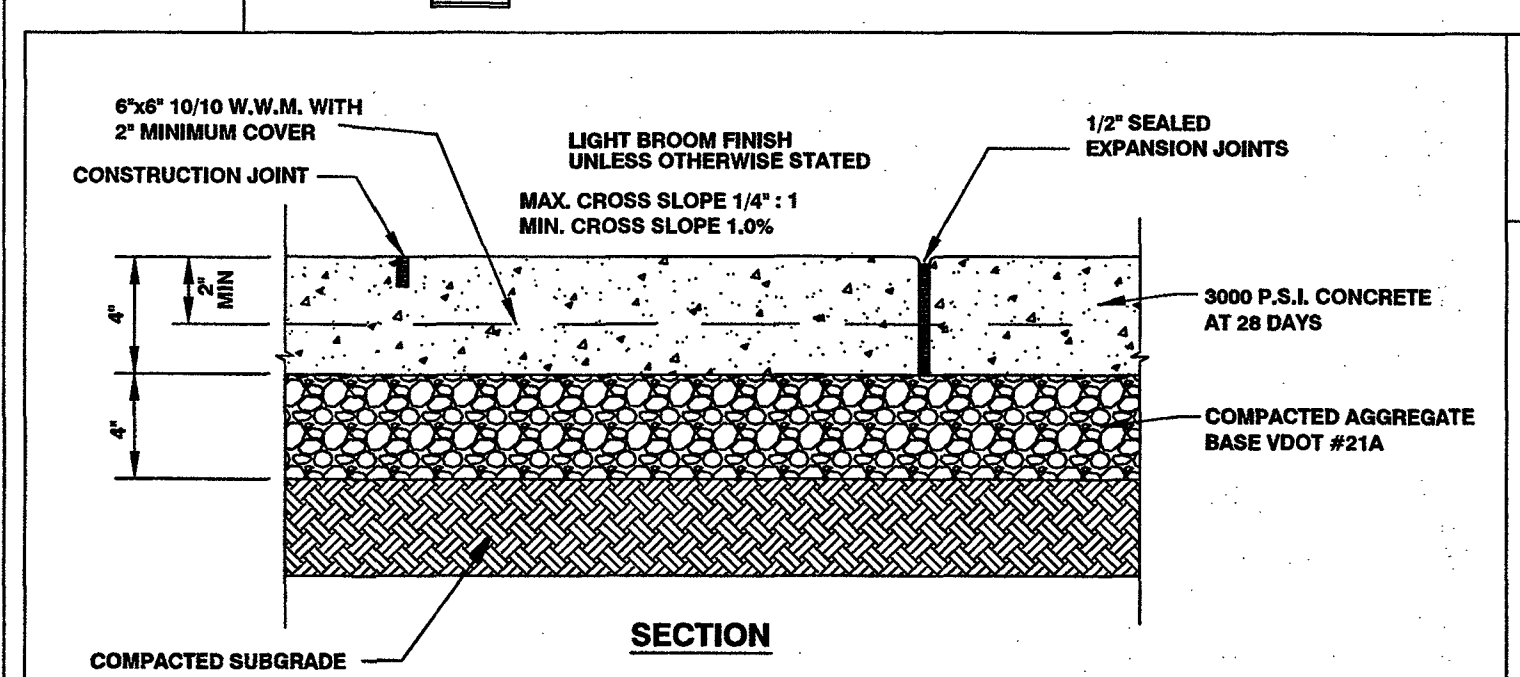
PARKING BLOCK DETAIL

6



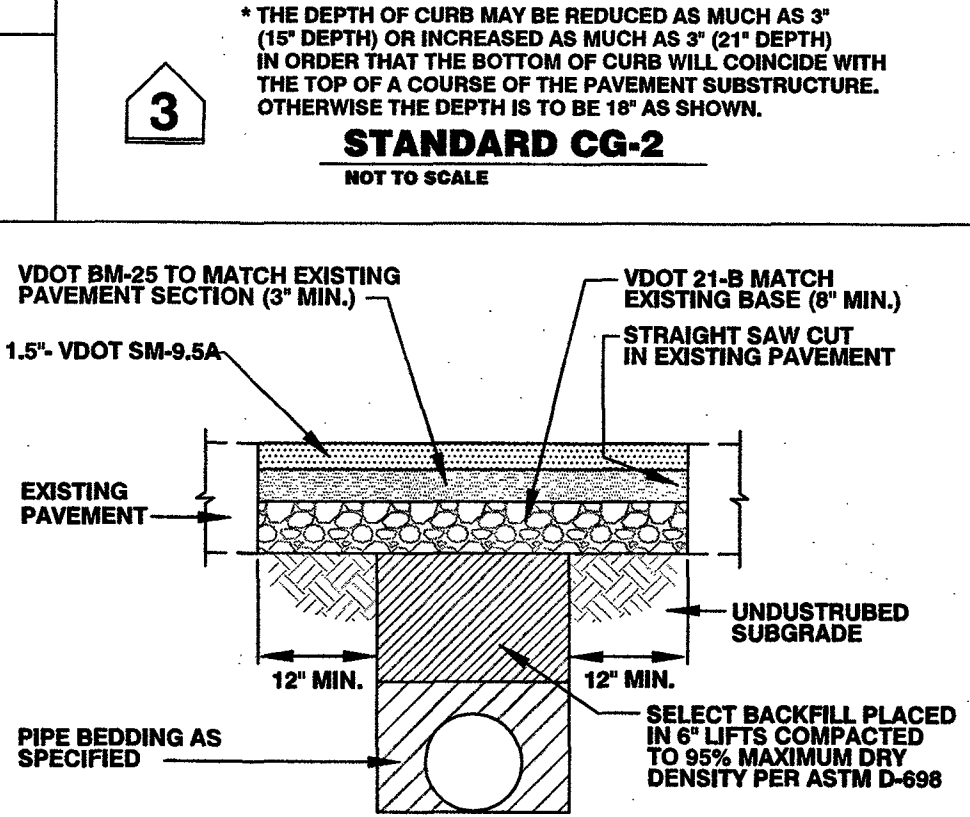
STANDARD CG-2

3



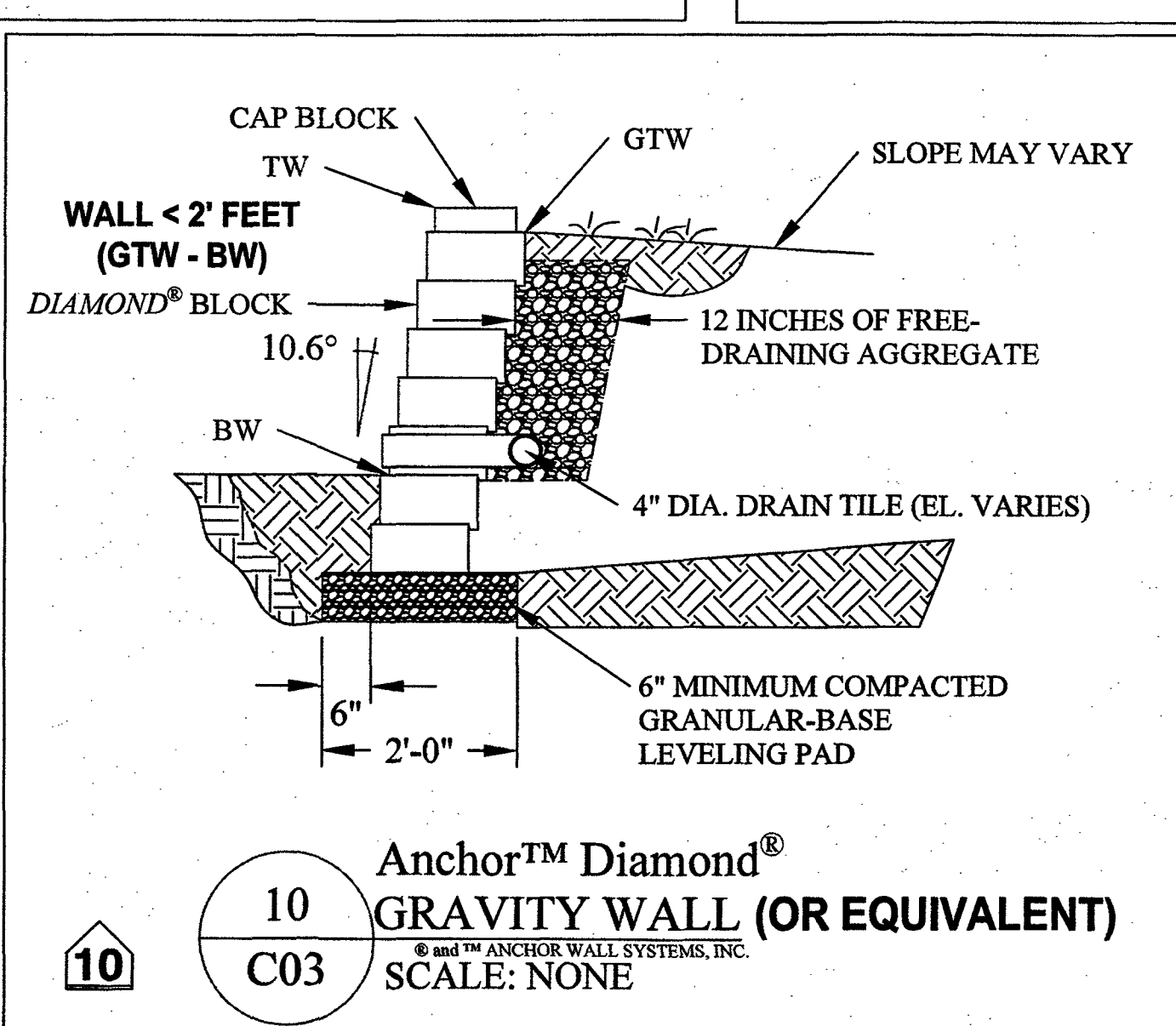
CONCRETE SIDEWALK DETAIL

2



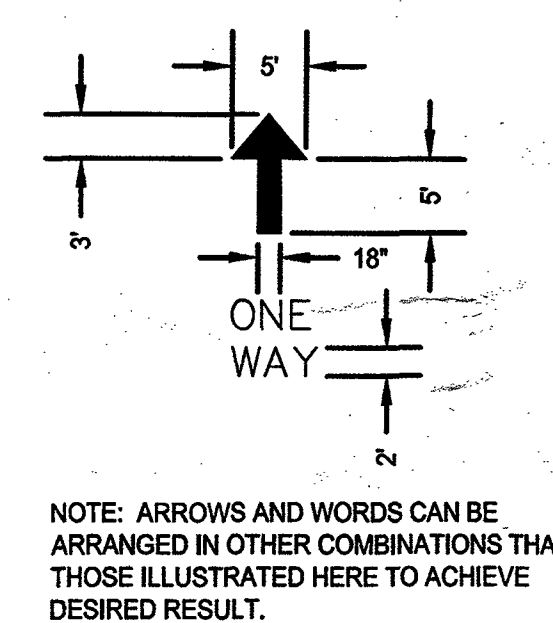
HEAVY DUTY PAVEMENT REPAIR DETAIL

12



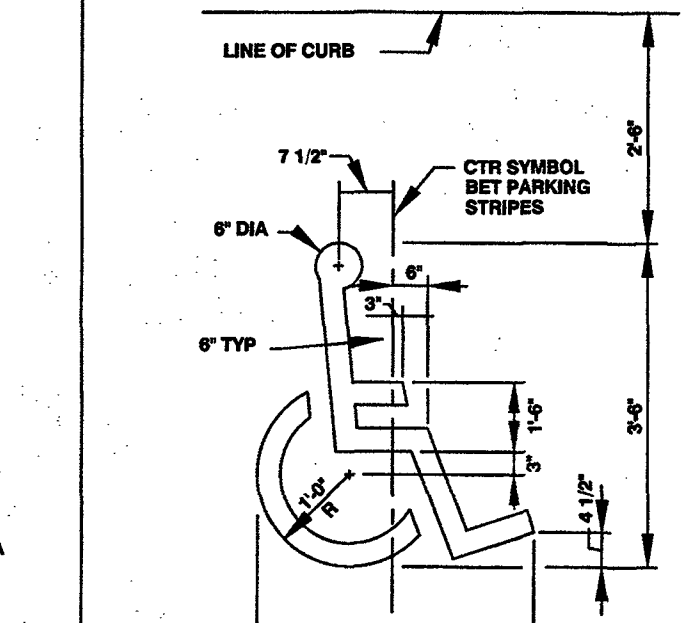
Anchor™ Diamond GRAVITY WALL (OR EQUIVALENT)

10



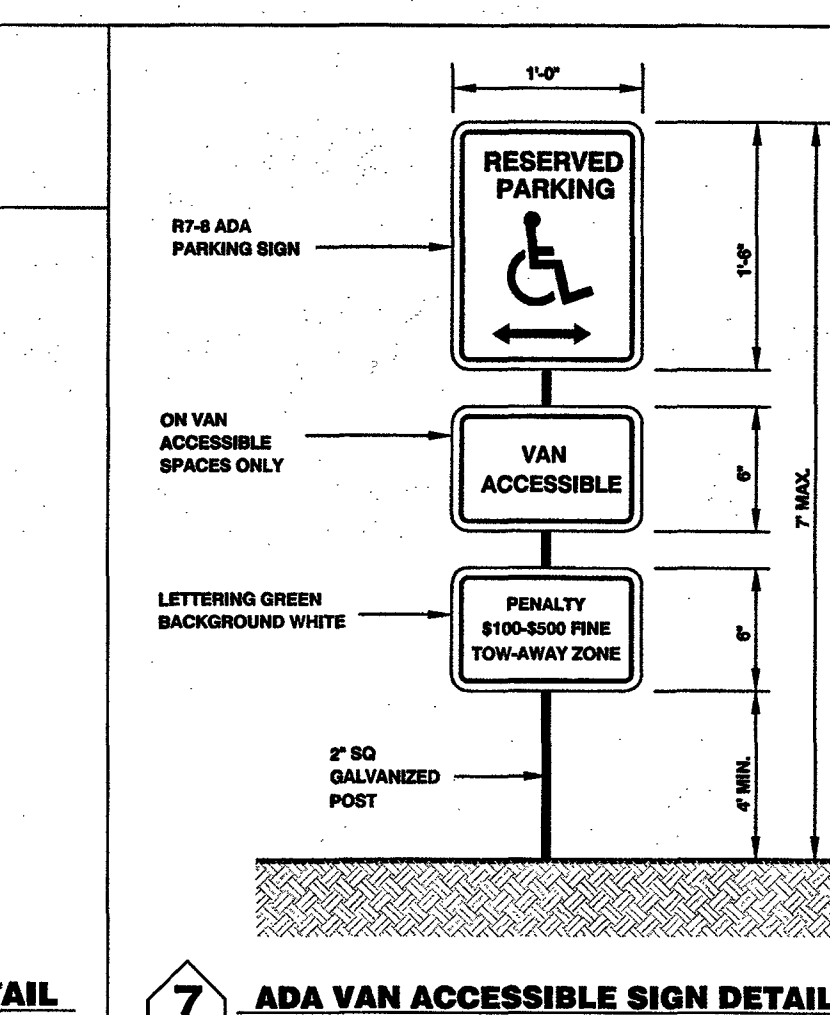
PAINTED ONE WAY ARROW

16



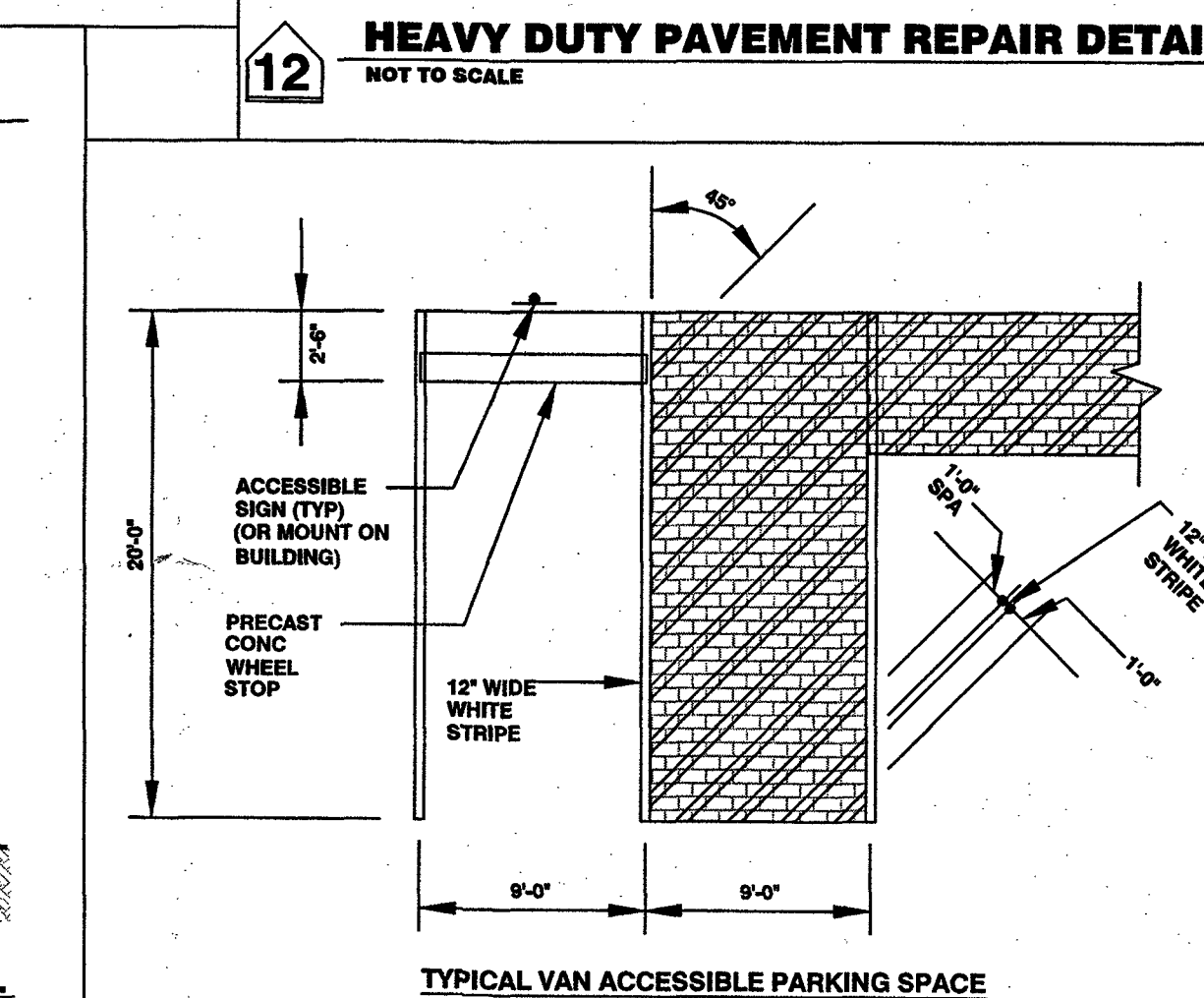
HANDICAPPED SYMBOL DETAIL

6



ADA VAN ACCESSIBLE SIGN DETAIL

7



TYPICAL VAN ACCESSIBLE PARKING SPACE

HC

PAVEMENT ADA MARKING DETAILS

NOT TO SCALE

1. TRACER WIRES SHALL BE INSTALLED USING MANHOLES, TRACER WIRE ACCESS BOXES, VALVE BOXES OR VAULTS, WATER METERS AND FIRE HYDRANTS AS ACCESS POINTS.

2. FOR WATER AND SEWER INSTALLED BY OPEN TRENCHING, HORIZONTAL DRILLING, OR PIPE BURSTING, TRACER WIRE SHALL BE NEPTO TRACE-SAFE WATER BLOCKING TRACER WIRE OR APPROVED EQUAL. TRACER WIRE SHALL BE A 16 AWG SOLID COPPER CONDUCTOR WITH POLYETHYLENE INSULATION SURROUNDED BY A CORE MATERIAL, COMPOSED OF HIGH-TECHNOLOGY WOVEN POLYESTER WITH WATER-BLOCKING YARNS ENCAPSULATED IN AN ABSORPTION RESISTANT (GREEN OR BLUE) 30 MIL HOPE JACKET. TRACER WIRE SHALL HAVE A MINIMUM TENSILE STRENGTH OF 100 LBS. AND SHALL NOT CONDUCT AN ELECTRICAL CURRENT IF STRUCK BY LIGHTNING. SPLICES SHALL ONLY BE MADE WITH GEL FILLED CONNECTORS DESIGNED FOR WIRE WITH A WOVEN POLYESTER FIBER CORE AS NEPTO TRACE-SAFE WATER BLOCKING TRACER WIRE OR APPROVED EQUAL. SPLICES SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. SPLICES AT THE END OF TRACER WIRE SHALL BE SPUN USING NEPTO TO DRAIN WATER-BLOCKING BUT SPLICE CONNECTORS OR APPROVED EQUAL.

4. AT ALL ACCESS POINTS, TRACER WIRE SHALL BE INSTALLED USING NEPTO TO DRAIN WATER-BLOCKING BUT SPLICE CONNECTORS OR APPROVED EQUAL. 12 AWG COPPER TRACER WIRE WITH 30 MIL HOPE JACKET SHALL BE CONNECTED IN THE 12 AWG OPENING OF THE BUTT SPLICE CONNECTOR, EXTENDED UP INTO THE ACCESS POINT STRUCTURE, AND ATTACHED TO THE GROUND BAR PER NOTE #2 OR LD TERMINAL PER NOTE #3. AT ALL ACCESS POINTS, EACH DIRECTION OF PIPE SHALL HAVE AN INDEPENDENT TRACER WIRE FEED EXTENDED TO GROUND BAR OR LD TERMINAL TO ALLOW FOR DIRECTIONALLY MOVING CURRENT DURING LOCATING. THE 12 AWG COPPER TRACER WIRE SHALL BE OF ADEQUATE LENGTH TO EXTEND FIVE (5) FEET ABOVE THE TOP OF STRUCTURE.

5. WHERE IRON PIPE IS INSTALLED WITHOUT STEEL CASING PIPE, SUCH AS A DIRECTIONALLY DRILLED CROSSINGS, AND CONNECTED TO DUCTILE IRON PIPE ON EACH END, TRACER WIRE SHALL BE INSTALLED ALONG FULL LENGTH OF IRON PIPE WITH AN ACCESS POINT INSTALLED AT EACH HORIZONTAL IRON TRANSITION. TRACER WIRE SHALL BE CONNECTED TO THE ACCESS POINT IN ACCORDANCE WITH THIS DETAIL.

6. ASBESTOS SHALL SHOW TRACER WIRES LOCATION AND ACCESS POINTS.

7. THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT TOUCH THE PIPE, BUT SHALL BE A MINIMUM OF 9\"/>

8. WHERE LINES ARE GREATER THAN SIX (6) FEET IN DEPTH, WIRE SHALL BE BROUGHT TO THE SURFACE EVERY FIVE-HUNDRED (500) FEET AND PLACED IN A WATER METER BOX OR A DRAINAGE AND WATER SOLUTIONS, INC. (OR APPROVED EQUAL) CAST IRON TRACER WIRE ACCESS BOX.

9. THE TRACER WIRE WILL BE TESTED BY THE PARTICIPATING UTILITY AS PART OF THE PROJECT'S FINAL ACCEPTANCE.

10. THE GROUND WIRE SHALL BE 16 AWG COPPER WIRE AND SHALL BE OF ADEQUATE LENGTH TO EXTEND A MINIMUM OF (5) FEET BEYOND THE TOP OF THE STRUCTURE. THE END OF THE GROUND WIRE SHALL CONNECT TO THE GROUND BAR OR LD TERMINAL USING A BUNDLY KAM MECHANICAL TERMINAL LUG.

11. A GROUND ROD SHALL BE INSTALLED AT EACH LOCATION WHERE GROUND WIRE SURFACES AND CONNECTS TO GROUND BAR OR LD TERMINAL. GROUND ROD SHALL BE COPPER COATED WITH A MINIMUM DIAMETER OF 5/8\"/>

12. THE GROUND BAR SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED USING 3/8\"/>

13. IF USING TRACER WIRE ACCESS BOX AS ACCESS POINT, GROUND BAR WILL NOT BE REQUIRED. THE REMOVABLE LID ON THE ACCESS BOX SHALL CONTAIN TWO SCREW TERMINALS. THE 12 AWG COPPER TRACER WIRE SHALL BE BROUGHT UP IN ACCESS BOX AND CONNECTED TO ONE OF THE SCREW TERMINALS. IF MORE THAN ONE TRACER WIRE IS NECESSARY TO ACCOUNT FOR TOTAL NUMBER OF PIPE DIRECTIONALITY, MULTIPLE TRACER WIRES SHALL BE CONNECTED TO THAT SAME SCREW TERMINAL. THE 16 AWG COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD TO THE REMAINING SCREW TERMINAL WITH THE USE OF A BUNDLY KAM MECHANICAL TERMINAL LUG. WIRES SHALL BE CONNECTED AS SHOWN BELOW. TRACER WIRE AND GROUND WIRE SHALL BOTH BE OF ADEQUATE LENGTH TO EXTEND FIVE (5) FEET ABOVE THE TOP OF ACCESS BOX.

14. TWO WIRES OF TRACER WIRE SHALL BE WRAPPED TOGETHER AROUND BASE OF HYDRANT. WIRE SHALL NOT BE LEFT IN A WAY THAT WOULD INTERFERE WITH MOVING AROUND HYDRANT.

15. ALL METERS ARE TO BE PROVIDED AND INSTALLED BY PARTICIPATING UTILITY AT OWNER/DEVELOPER'S EXPENSE. METER BOX SERVICE, AND SETTER TO BE PROVIDED AND INSTALLED BY OWNER/DEVELOPER IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS SHOWN BELOW.

16. SADDLES MUST BE USED WITH ALL PLASTIC & DUCTILE IRON PIPE. SERVICE SADDLES SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SERVICE SADDLES FOR PLASTIC PIPE SHALL BE POWERSEAL 3417, OR 3412AS, ROMAC 202S, OR 306, OR FORD METER FS202 OR FS303. FOR DUCTILE IRON PIPE USE THE ABOVE OR POWERSEAL 3413, ROMAC 202 OR FORD METER FS202.

17. CORPORATION STOP SHALL BE FORD F300-A-G, MUELLER H-1500 OR APPROVED EQUAL.

18. METER BOXES LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONCRETE WITH H-20 RATED TRAFFIC BEARING HATCH. ALL OTHER METER BOXES SHALL BE CARBON/MI-STATES PLASTICS, INC. PLASTIC BOX. ADS CORRUGATED HOPE BOX, OR APPROVED EQUAL. MINIMUM METER BOX & LID DIAMETERS SHALL BE IN ACCORDANCE WITH SIZING CHART BELOW.

19. SERVICE SHALL BE 1/2\"/>

20. COPPER METER SETTER TO BE FORD, A.Y. McDONALD OR APPROVED EQUAL WITH ANGLE DUAL CHECK VALVE AND BYPASS HAVING LOCKABLE SHUTOFF VALVE.

21. SERVICES REQUIRING METERS LARGER THAN 2-INCH SHALL BE REVIEWED BY THE PARTICIPATING UTILITY ON A CASE BY CASE BASIS.

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