

1. OVEREXCAVATE TRENCH WHEN FOUNDATION IS ROCK, SOFT, YIELDING, SATURATED, UNSTABLE, OR OTHERWISE UNSUITABLE, AS APPROVED BY THE ENGINEER, TO ALLOW PLACEMENT OF 8" MIN. VODT #68 STONE BEDDING BENEATH PIPE.

2. SELECT BACKFILL: EXCAVATED NATIVE SOIL FREE OF ROCKS/STONES LARGER THAN 1" DIAMETER, ASPHALT, CONCRETE, ICE/FROST, TRASH/DEBRIS, WOOD OR ANY OTHER ORGANIC MATERIAL, LARGE CLODS.

3. COMMON BACKFILL: EXCAVATED NATIVE SOIL FREE OF ROCKS/STONES LARGER THAN 4" DIAMETER

ASPHALT, CONCRETE, ICE/FROST, TRASH/DEBRIS, WOOD OR ANY OTHER ORGANIC MATERIAL, LARGE CLODS.

4. PLACE BACKFILL IN 6" LIFTS MAX. 5. TOPSOIL: EXCAVATED NATIVE TOPSOIL (6" MAX.), PROPERLY STORED DURING TRENCH WORK, AUGMENTED

AND PLACED AS INDICATED, OR OFF-SITE TOPSOIL, AUGMENTED AND PLACED AS INDICATED. NATIVE TOPSOIL DESIGNATED BY THE OWNER AS UNSUITABLE MAY BE USED AS COMMON BACKFILL AS NOTED ABOVE.

> WATER MAIN TRENCH NOT UNDER ASPHALT

TACK COAT BETWEEN ASPHALT

SUBBASE COURSE AND BASE

COURSES AND BETWEEN

DESIGN ADT = 1830 VPD

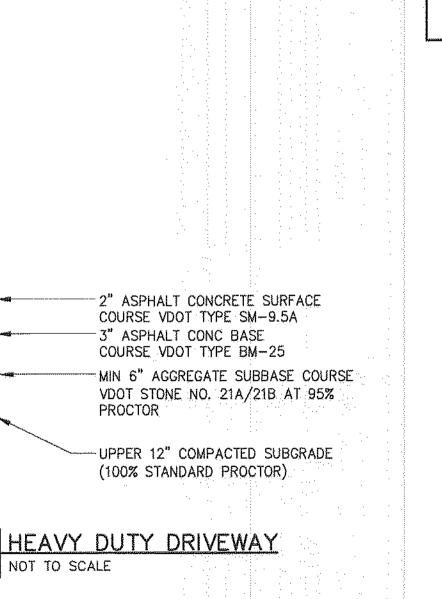
DESIGN CBR = 4.33 (AVERAGE OF 3 TESTS)

NOTES: CONTRACTOR SHALL PROVIDE CBR TESTS ON IN PLACE SUBGRADE MATERIAL PRIOR TO

AND MODIFIED AS REQUIRED TO PROVIDE ADEQUATE STRUCTURAL INTEGRITY.

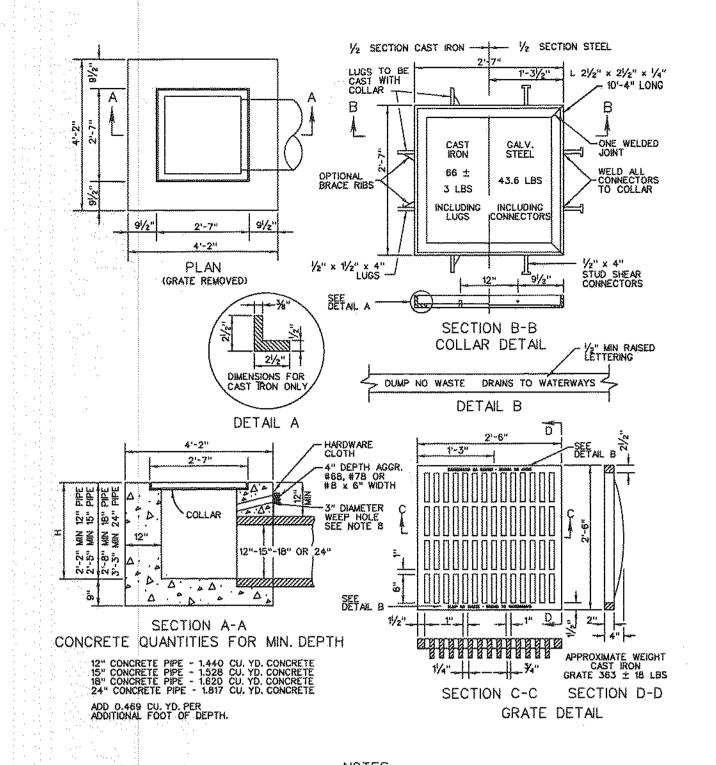
INSTALLATION OF PAVEMENT SECTION. PAVEMENT SECTION DESIGN SHALL BE ANALYZED

COURSE OF ASPHALT-



PROCTOR

NOT TO SCALE



2. THE "H" DIMENSION SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF THE CUTFALL PIPE TO THE TOP OF THE STRUCTURE. PLAN "H" DIMENSIONS ARE APPROXIMATE ONLY FOR ESTIMATING PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.

3. WHEN SPECIFIED ON THE PLANS THE INVERT IS TO BE SHAPED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTIAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT STANDING OR PONDING OF WATER IN THE STRUCTURE. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO INLET SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

10. ANY ALTERNATE METHODS OF ANCHORAGE MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THE CAST IRON LUGS AS SHOWN HEREON. 11. DUMP NO WASTE DRAINS TO WATERWAY LETTERING IS REQUIRED ON ALL DI-1 GRATES. LOCATION OF LETTERING MAY VARY BY MANUFACTURER.

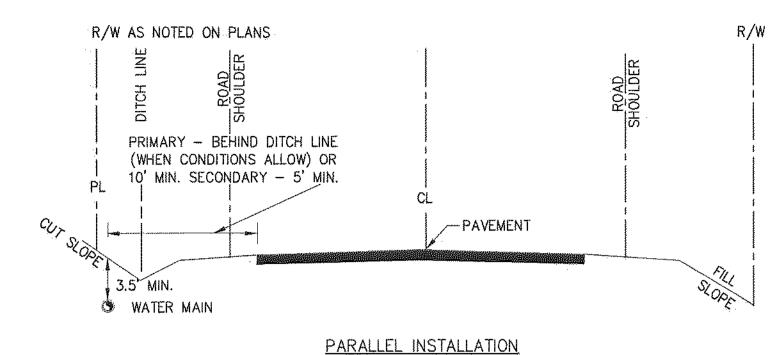
THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.

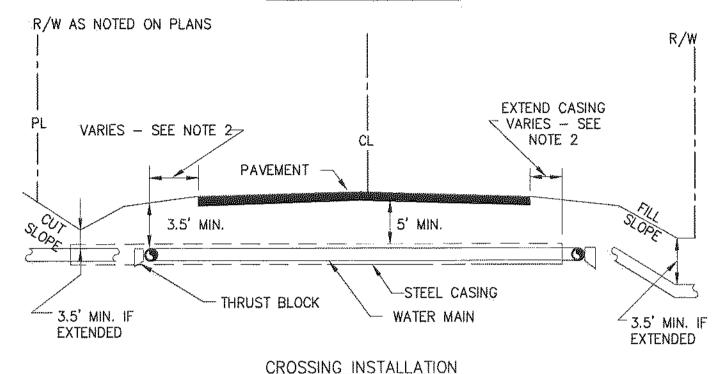
7. #4 X 8" SMOOTH DOWELS AT APPROXIMATELY 12" C-C TO BE PLACED IN ALL AREAS ADJACENT TO ABUTTING CONCRETE TO PREVENT SETTLEMENT. IN LIEU OF DOWELS A 2"X4" NOTCH MAY BE PROVIDED. SEE STANDARD T-DI-J, 4 FOR ALTERNATE DESIGN.

2 VDOT STANDARD DROP INLET DI-1

GEOTEXTILE, MIRAFI 600X, AMOCO 2016, OR APPROVED EQUAL -PINNED ON EDGES -COMPACTED VDOT 21A **AGGREGATE** COMPACT TO AT LEAST 95% STND. PROCTOR MAX DRY DENSITY SUBGRADE -5 GRAVEL DRIVE AND ACCESS ROAD

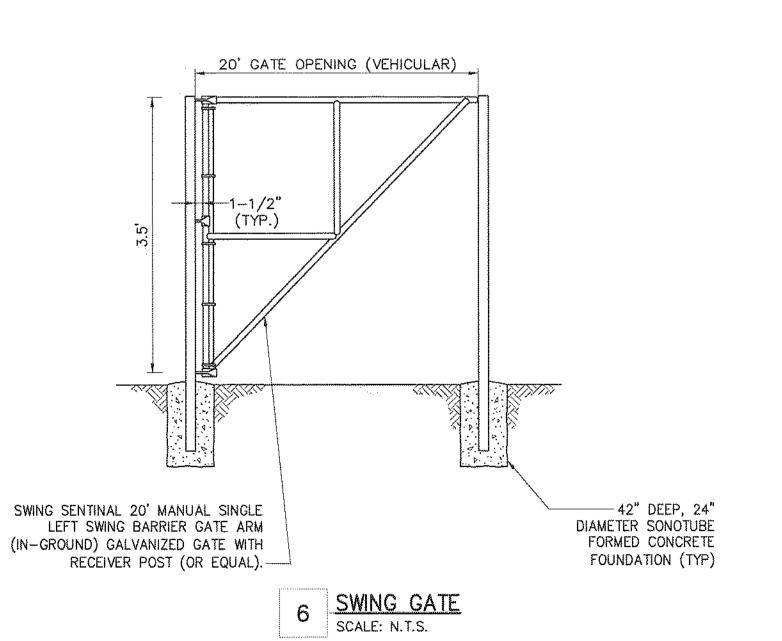
NOT TO SCALE





COMPLY WITH ALL LOCAL VDOT RESIDENCY REQUIREMENTS. 2. EXTEND STEEL CASING A MINIMUM OF 5 FEET PAST THE EDGE OF PAVEMENT ON SECONDARY ROADS AND A MINIMUM OF 10 FEET PAST THE EDGE OF PAVEMENT ON PRIMARY ROADS.

> TYPICAL WATER MAIN LOCATION WITHIN V.D.O.T. RIGHT OF WAY



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NESTERM VERGLAT WATER AUTHORITY

> WESTERN VIRGINIA WATER **AUTHORITY**

BALTHON ERIC T. ANDERSON. Lic. No. 040813 12/16/2022 SSIONAL"

IT IS A MOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGREER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM BARY WAY. IF AN ITEM BEARING TO STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERNED ENGREER, ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SOUTHLAKE WATER SYSTEM

**CONTRACT 1: WATER** TREATMENT PLANT

CONTRACT 2: WATER MAIN

No. Submittal / Revision App'd. By Date ETA CDR 12/15/22 O BID ISSUE

CONSTRUCTION DETAILS

Designed By: Drawn By: Checked By CDR CDR Issue Date: Project No: 073612 AS SHOWN 12/15/22

Drawing No.:

C-504