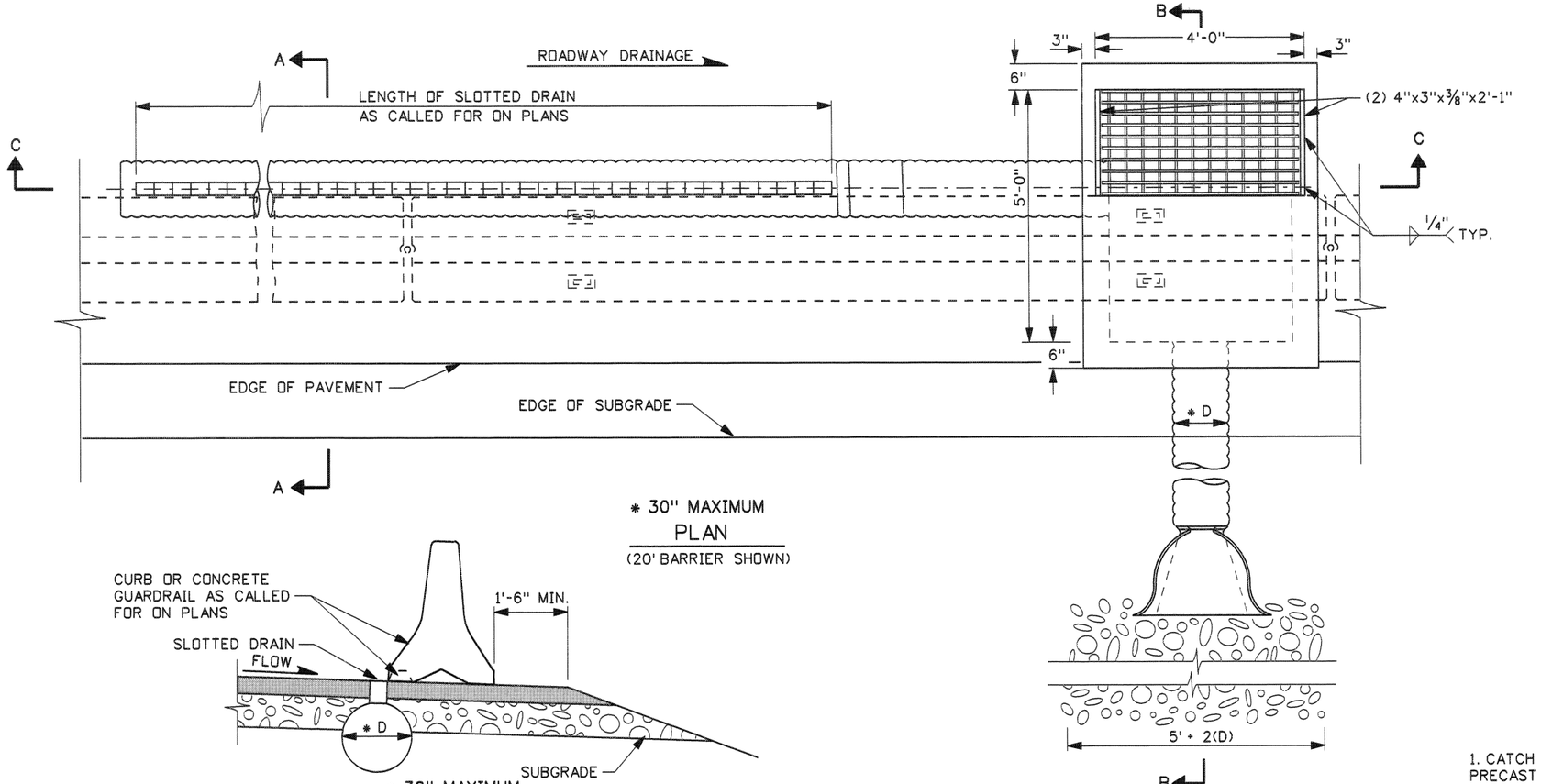
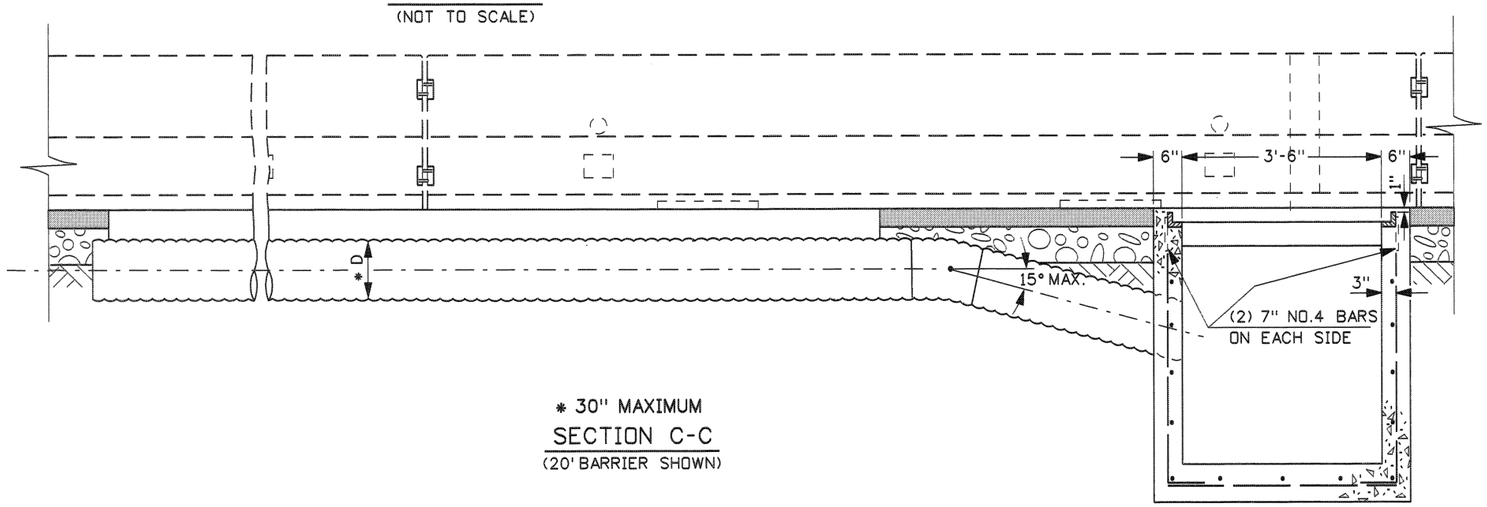
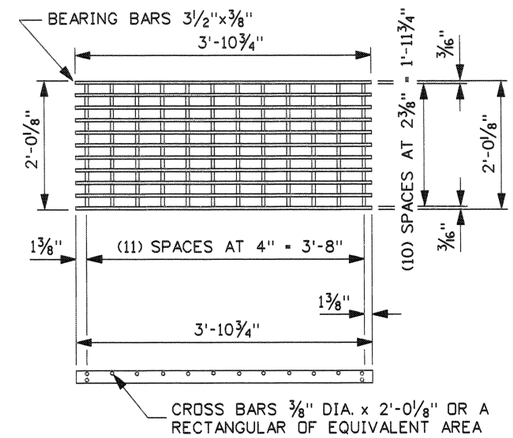


* 30" MAXIMUM
PLAN
(20' BARRIER SHOWN)

* 30" MAXIMUM
SECTION A-A
(NOT TO SCALE)



* 30" MAXIMUM
SECTION C-C
(20' BARRIER SHOWN)



WEIGHT: APPROXIMATELY 203 LBS

STEEL GRATE

NOTES

1. CATCH BASINS FOR SLOTTED DRAINS CAN BE EITHER PRECAST OR CAST-IN-PLACE. PRECAST BASINS SHALL MEET THE REQUIREMENTS OF ASTM C 478. CATCH BASINS ON NEW CONSTRUCTION SHALL BE CAST TO, OR PRECAST UNITS TILTED, TO MATCH THE ROADWAY CROWN. PRIOR APPROVAL OF SHOP DRAWINGS IS REQUIRED FOR USE OF PRECAST BASINS.
2. CAST-IN-PLACE CATCH BASINS SHALL CONFORM TO SECTION 609 - MINOR STRUCTURES OF THE CURRENT ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVER OF 2" AND/OR 3" MINIMUM COVER IF CAST AGAINST EARTH.
4. THE INVERT OF ANY INFLOW/OUTFLOW PIPE SHALL BE A MINIMUM OF 1' ABOVE THE BASIN FLOOR.
5. THE FINISHED TOP OF CONCRETE SHALL BE FLUSH WITH THE GRATE SURFACE.
6. THE INLET PIPE FROM THE SLOTTED DRAIN TO THE CATCH BASIN MUST NOT BE ANGLED MORE THAN 15° DOWN TO THE WALL OF THE CATCH BASIN.
7. THE METAL FOR THE GRATE SHALL MEET THE REQUIREMENTS OF ASTM A 36. THE METAL GRATE NEED NOT BE PAINTED OR GALVANIZED.
8. WELDING OF THE METAL GRATE SHALL MEET THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY D1.1.
9. ANGLES SHALL BE SET SO THAT EACH BEARING BAR OF THE PREFABRICATED GRATE SHALL HAVE FULL BEARING ON BOTH ENDS.
10. CATCH BASINS SHALL BE LOCATED IN A MANNER TO INTERCEPT ROADWAY DRAINAGE PRIOR TO FLOWING ONTO A BRIDGE AND INTERCEPT DRAINAGE THAT HAS COLLECTED ON BRIDGE OR AS SHOWN ON THE PLANS.

REVISIONS

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-01	MSM						
2	7-02	MSM						
3	3-05	MSM						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME dlb_0305.std

DRWG. ORIG. DATE: DECEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ASSISTANT CHIEF ENGINEER (DEVELOPMENT)

CHIEF ENGINEER

STANDARD DRAWING

RUNOFF DRAIN OR EMBANKMENT PROTECTOR WITH SLOTTED DRAIN

REQUIRES SHEET 2 OF 2

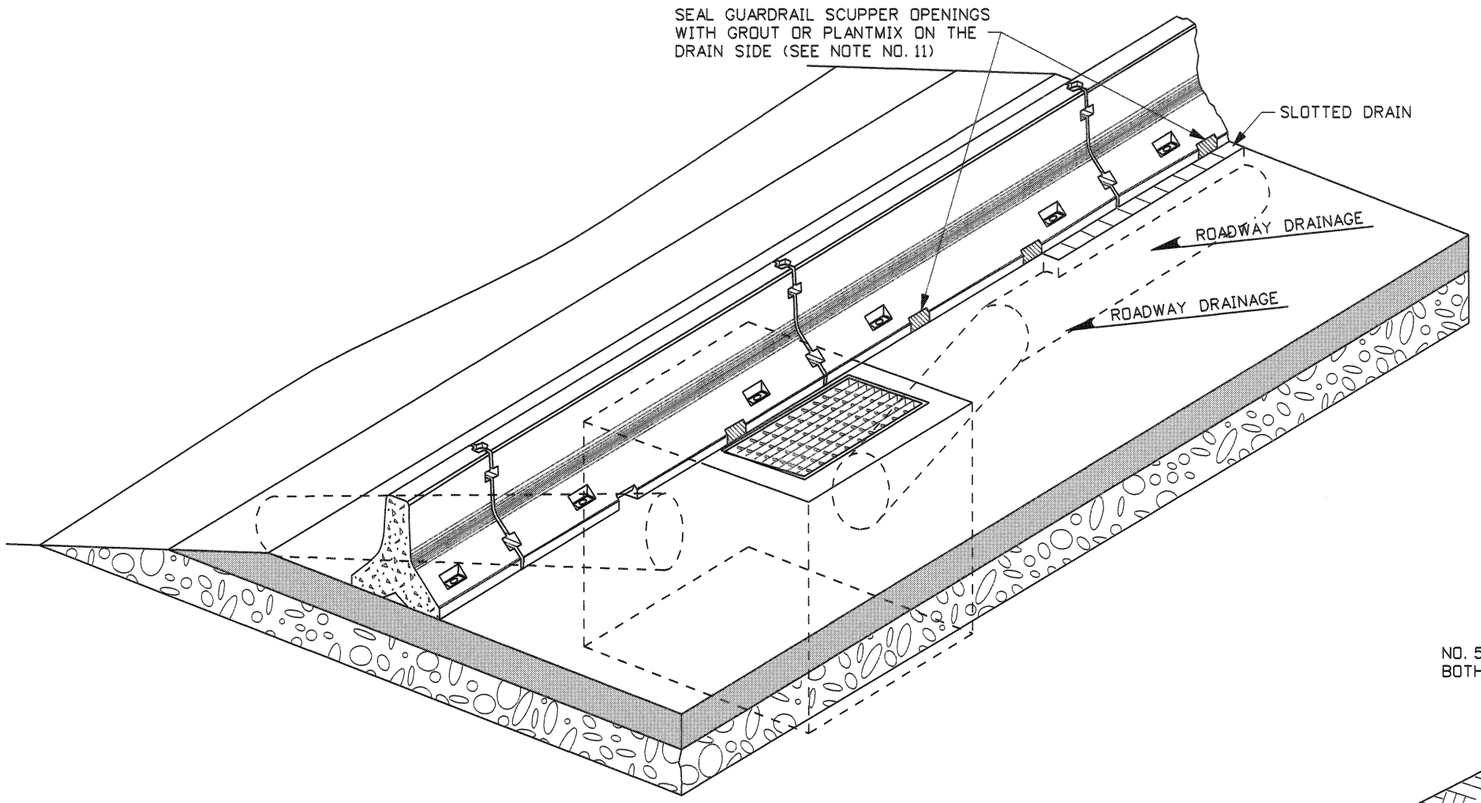
English

STANDARD DRWG. NO.

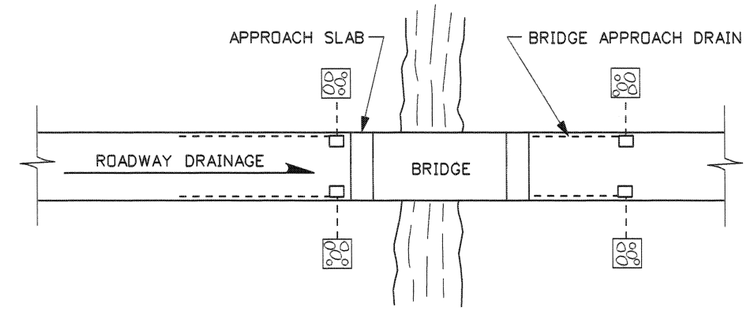
D-1-B

SHEET 1 OF 2

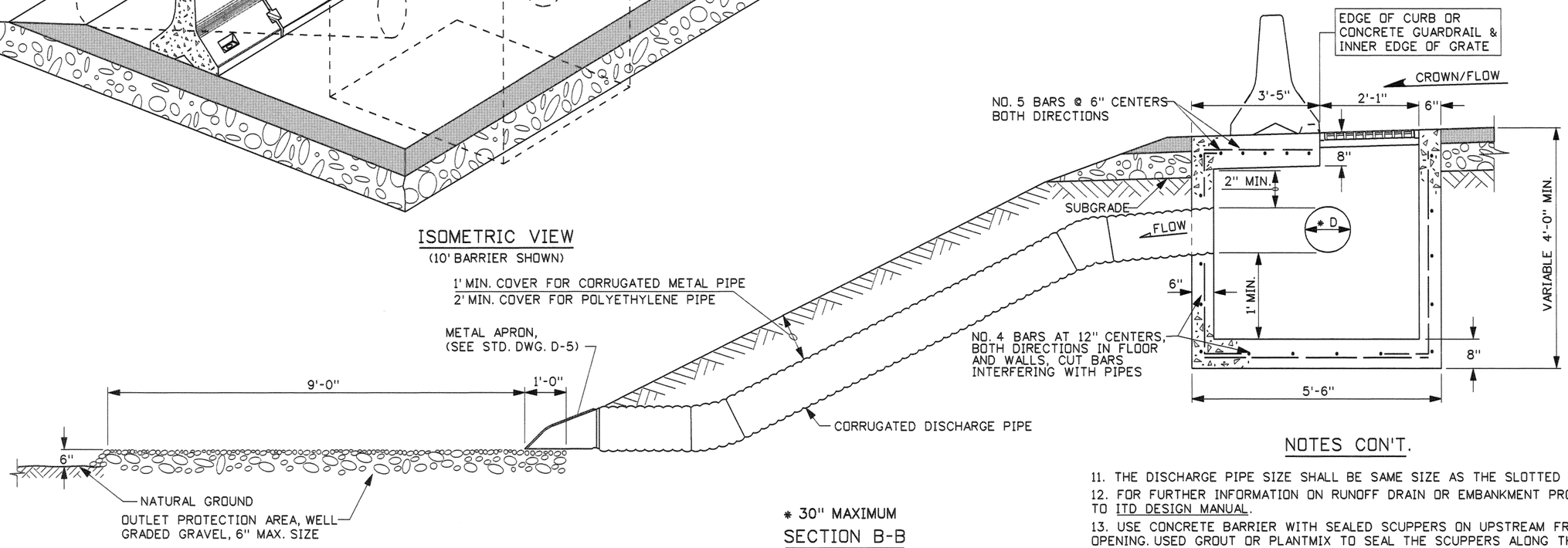
PROFESSIONAL ENGINEER * LAND SURVEYOR
REGISTERED
2240
3/4/05
STATE OF IDAHO
MILFORD MILLER



ISOMETRIC VIEW
(10' BARRIER SHOWN)



LOCATION SKETCH



* 30" MAXIMUM

SECTION B-B

NOTES CON'T.

11. THE DISCHARGE PIPE SIZE SHALL BE SAME SIZE AS THE SLOTTED DRAIN PIPE.
12. FOR FURTHER INFORMATION ON RUNOFF DRAIN OR EMBANKMENT PROTECTOR REFER TO ITD DESIGN MANUAL.
13. USE CONCRETE BARRIER WITH SEALED SCUPPERS ON UPSTREAM FROM THE GRATE OPENING. USED GROUT OR PLANTMIX TO SEAL THE SCUPPERS ALONG THE DRAIN RUNOFF AREA. EITHER 10' OR 20' CONCRETE BARRIER IS ALLOWED TO BE USED WITH THE SLOTTED DRAIN INSTALLATION.
14. NOT TO SCALE.

REVISIONS

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-01	MSM						
2	7-02	MSM						
3	3-05	MSM						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME dlb_0305.std

DRWG. ORIG. DATE: DECEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

P. D. Thomas
ASSISTANT CHIEF ENGINEER (DEVELOPMENT)

Steven C. Hutchison
CHIEF ENGINEER

STANDARD DRAWING

RUNOFF DRAIN OR EMBANKMENT PROTECTOR WITH SLOTTED DRAIN

REQUIRES SHEET 1 OF 2

English

STANDARD DRWG. NO.

D-1-B

SHEET 2 OF 2

PROFESSIONAL ENGINEER * LAND SURVEYOR REGISTERED 2240 3/4/05 STATE OF IDAHO MILFORD MILLER