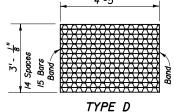
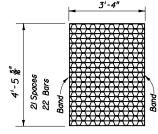


TYPE C Straight Bars 2"x4" Reticuline Bars I 4 x 3 Bands 2"x4" Approx. Weight 104 Lbs.



Straight Bars 2"x¼" Reticuline Bars 1¼" x ¾ Bands 2"x 1" Approx. Weight 190 Lbs.



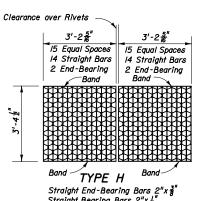
TYPE E Straight Bars 2"x 1/2" Bands 2" $x \frac{1}{4}$ "

Approx. Weight 215 Lbs.

Reticuline Bars | 1 x 3 / 16

NOTICE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets where Bicycle Traffic Is Anticipated.

STEEL GRATES



Straight Bearing Bars 2"x 1 Reticuline Bars | 4 X 3" Banding Bars 2" x 1" Approx. Total Weight 310 Lbs.

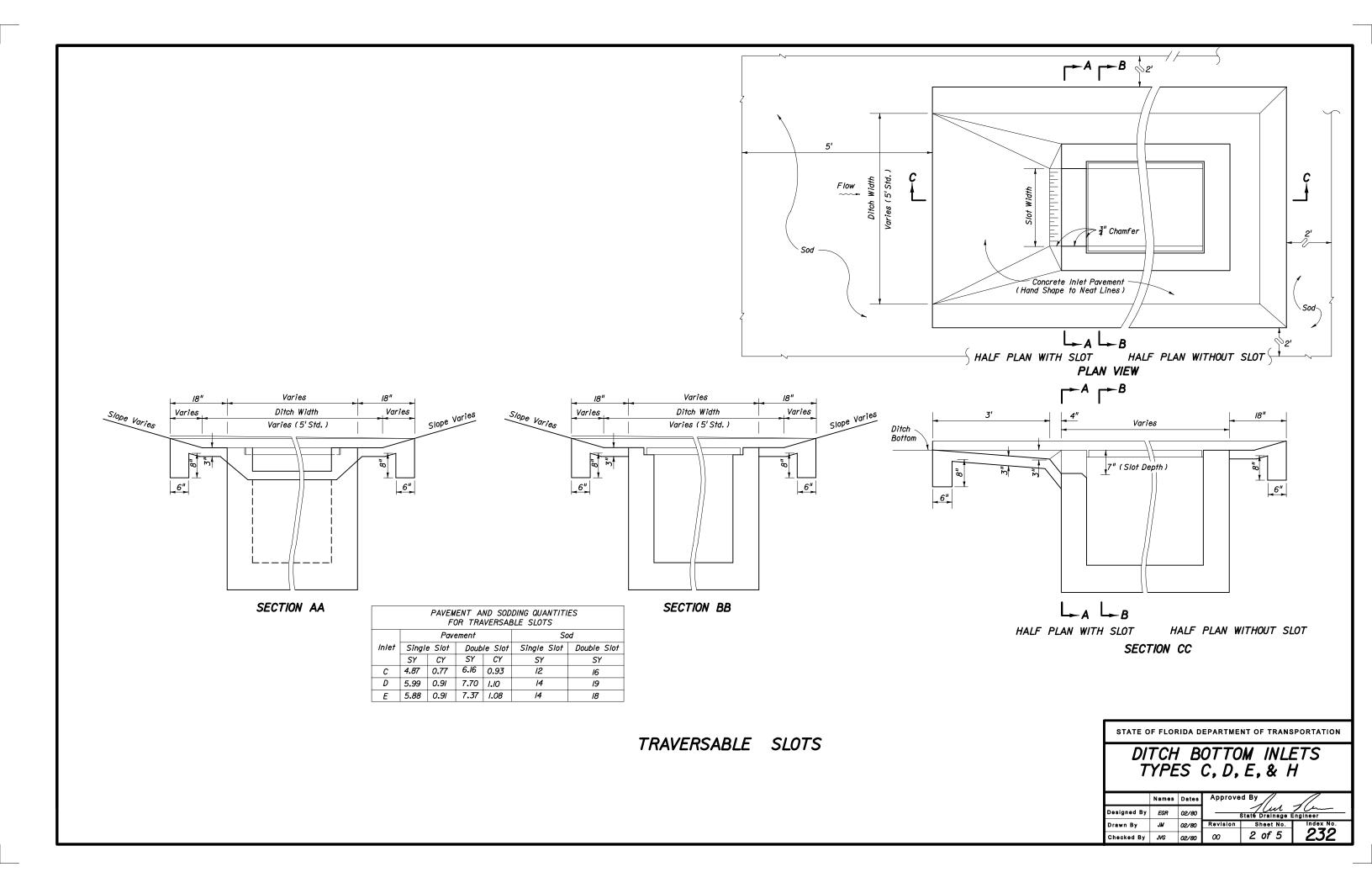
GENERAL NOTES

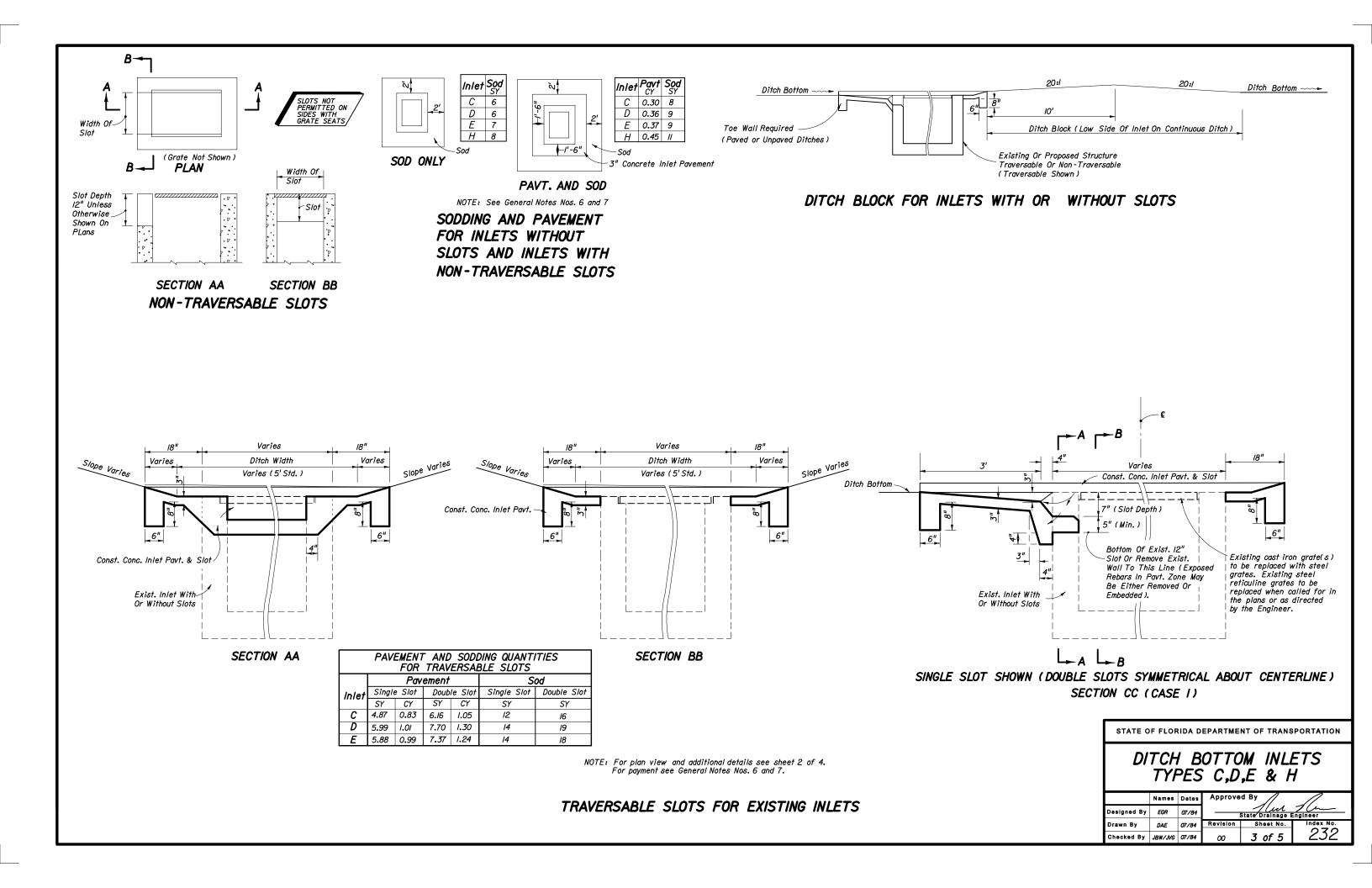
- I. These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the
- Inlets subject to minimal debris should be constructed without slots. Where debris is a
 problem inlets should be constructed with slots. Slotted inlets located within roadway
 clear zones and areas subject to bicycles and/or pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans.
- 3. Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dipped galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- 4. Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- 5. All exposed corners and edges of concrete are to be chamfered 3...
- 6. Concrete inlet payement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- 7. Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see 'TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS'.
- 8. Sodding to be used on all inlets not located in paved areas and paid for under contract concrete inlet pavement unit price for Sodding, SY.
- 9. For supplementary details see Index No. 201.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DITCH BOTTOM INLETS TYPES C.D.E & H

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Drawn By			Revision	Sheet No.	Index No.
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Checked By	EGR/JG	07/81	04	1 of 5	232





Existing Cast Iron Grate To Be Replaced With Steel Grate. Existing Steel Reticuline Grate To Be Replaced When Called For In The Plans Or As Directed By The Engineer. Varies Break Angle Not To Exceed 3° (1:20) Exist. Ditch Bottom Remove This Portion Of (Box With Slot Shown Varies (See Plans) Box And Construct New Top, Seats And Slot(s) Const. Conc. Inlet Pavt. & Slot Bottom Of Transition Ditch 7" (Slot Depth) Grate -5" (Min.) These Points Can Be The _6"_ Same Or Nearly The .6" Same Where Ditch Remove Exist. Wall To Grades Are Flat. This Line (Exposed Rebars In Pavt. Zone May Be Fither Removed Or Imbeded Exist. Inlet With Or Without Slots SINGLE SLOT SHOWN (DOUBLE SLOTS SYMMETRICAL ABOUT CENTERLINE) Break Angle Not To SECTION CC (CASE 2) Exceed 3° (1:20). Minimum Slope For Transition Ditch 0.10% Bottom Of Transition Ditch: Or Unless Existing Ditch Bottom Of Exist. Ditch For Is Flatter. Exist. Inlet Without Slot 10' Level Varies Const. Conc. Inlet Pavt. & Slot Ditch Grade For Detention Concept 7" (Slot Depth) -5" (Min.) Bottom Of Exist. Ditch For Bottom Of Exist. 12" Slo Exist. Inlet With Slot Existing Cast Iron Grate To Be Replaced Or Remove Exist. Wall To With Steel Grate. Existing Steel Reticuline This Line (Exposed Rebars Grate To Be Replaced When Called For In In Pavt. Zone May Be Either The Plans Or As Directed By The Engineer. Slope Same As Exist. Ditch-Removed Or Imbeded) Fxist, Inlet With Underdrain, Type I Or Without Slot To Be Constructed Only With Detention Ditch Concept, And Only When Called For In The Plans *Extra Pavement When Exist. Slot Exceeds 12" In Depth SINGLE SLOT SHOWN (DOUBLE SLOTS SYMMETRICAL ABOUT CENTERLINE) SECTION CC (CASE 3)

TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS

DESIGN NOTES FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS

- The general purpose of these conversions is to remove the hazard of the protruding inlet top, while not creating a hazard by depressing the top too deeply.
- 2. The corrective procedure depends on the approach ditch grade and hydraulic requirements of the site. The selection of the appropriate case depends on the relationship between inlet top and ditch elevation, and, on the vertical clearance between the top of the uppermost pipe(s) and the grate. The purpose for the Case I conversion is to add the traversable slot to an existing inlet where top removal, change in grate elevation and ditch transitions are not required. Case 2 will normally be applicable to ditches with flatter grades adjoining the inlet. Case 3 will normally be applicable to ditches with steeper grades adjoining the inlet where buildup of the existing ditch is acceptable.
- The designer shall stipulate in the plans which case is to be constructed at each individual inlet location.

Where the existing inlet top is above the existing ditch (Case 2) but borrow material will be required to adjust the ditch (Case 3), and vertical clearance or other conditions do not prevent removal of the inlet top, the designer should call for Case 2. The designer shall determine if ditch reconstruction is required more than 35 feet beyond any traversable slot side and shall include separate pay items in the plans to cover the cost for that portion of required ditch reconstruction exceeding the 35 foot limit. The designer shall also determine whether ditch pavement is required for ditch restoration within the 35 foot limit and include that pavement under a pay item separate from the inlets partial.

When the detention ditch concept is to be used with Case 3, the designer shall stipulate 'Case 3 (Detention)' in the plans.

The designer shall determine whether tight soil or other conditions at each individual inlet indicates the need for underdrain in Case 3 conversions and shall call for Underdrain, Type I in the plans.

METHOD OF PAYMENT FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS

- Existing inlets converted to traversable slot tops under Cases I, 2 and 3 shall be paid for as inlets partial, each. Case shall not be included in the pay item description.
- 2. All ditch reconstruction work within 35 feet of each traversable slot conversion, whether required by these details or as a direct result of the conversion, shall be included as a part of the partial cost. Reconstruction work shall include excavation and removal of surplus materials or borrow materials in place, grading, compaction, shaping and seeding and mulching. Sodding, ditch pavement and underdrain are not included as part of the inlet partial cost and are to be paid for separately.
- 3. Concrete inlet pavement and sodding shall be in accordance with the sections on this detail and with the Plan on Sheet 2 and Sections AA, BB and CC (as Case I) and tabular quantities on Sheet 3.
- 4. Unit price and payment shall constitute full compensation for inlet conversion (including concrete inlet paying and replacement grate(s)), ditch reconstruction, seeding and mulching, and shall be paid for under the contract price for Inlets (DT Bot) (Type ___) (Partial), each.

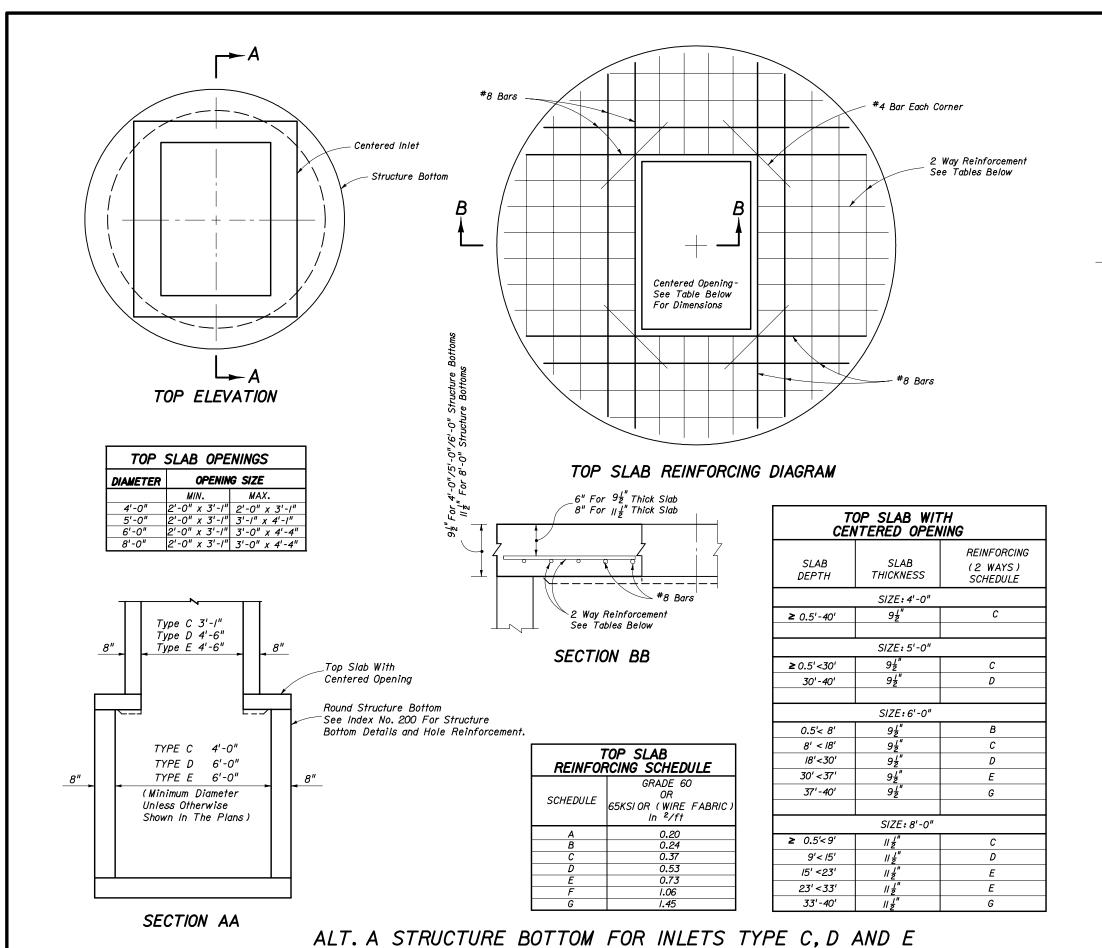
Sodding shall be paid for under the contract unit price for Sodding, SY.

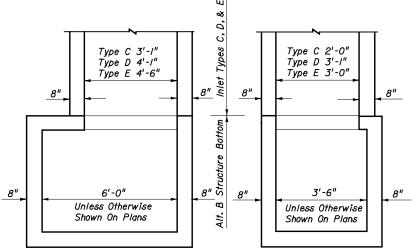
Ditch pavement shall be paid for separate from the inlet by pavement type(s) and unit(s) as called for in the plans.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DITCH BOTTOM INLETS TYPES C, D, E & H

	Names	Dates	1/11/1/1/		
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See Index No. 200 for structure bottom details and hole reinforcement.

ALT. B STRUCTURE BOTTOM FOR INLETS TYPE C, D & E

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DITCH BOTTOM INLETS TYPES C.D.E & H

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