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GENERAL NOTES

- 1) ALL STEEL SHALL CONFORM TO A.S.T.M. A 36.
- 2) 152 ϕ X 3.5mm THICK PIPE SHALL CONFORM TO A.W.W.A. C 200.
- 3) ALL 152 ϕ STD. STEEL PIPE SHALL CONFORM TO A.S.T.M. A 53 GR B.
- 4) ALL DECK DRAIN FABRICATION SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- 5) CONTRACTOR SHALL ASSURE THAT ALL DRAIN PIPE CONNECTIONS SHALL BE WATERTIGHT.
- 6) CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS.
- 7) ALL THREADED RODS SHALL CONFORM TO A.S.T.M. A 307.
- 8) ALL BOLTS SHALL CONFORM TO A.S.T.M. A 307.
- 9) ALL FASTENERS SHALL BE GALVANIZED.

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APR 13 2000

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DESIGN DIVISION

RW H

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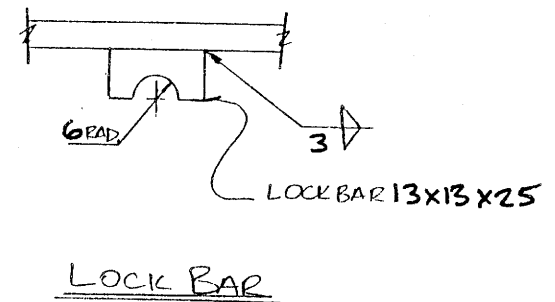
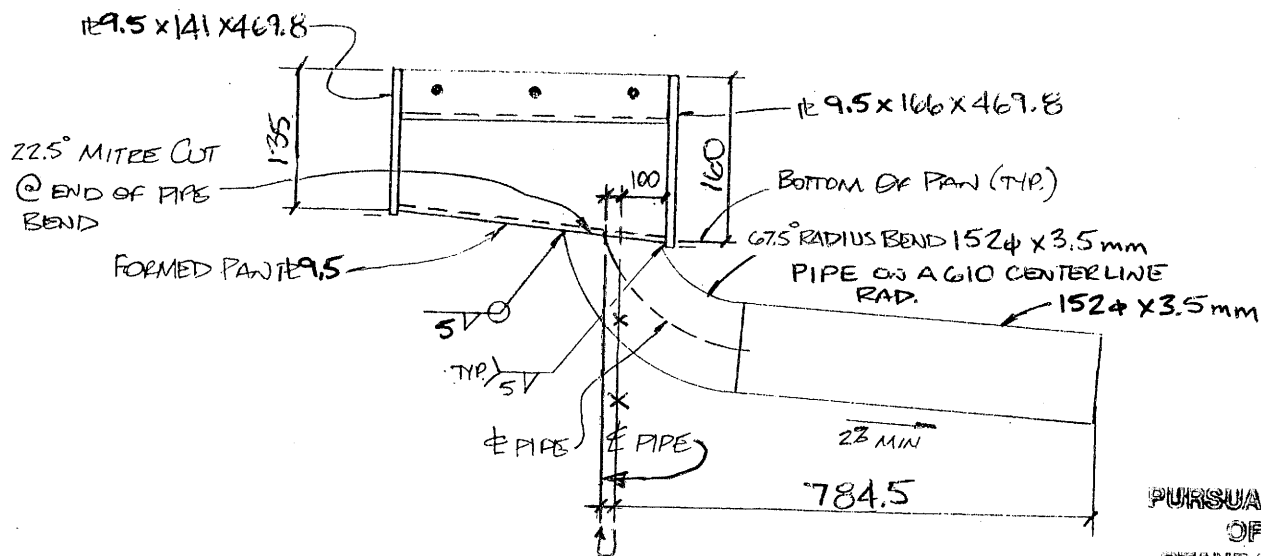
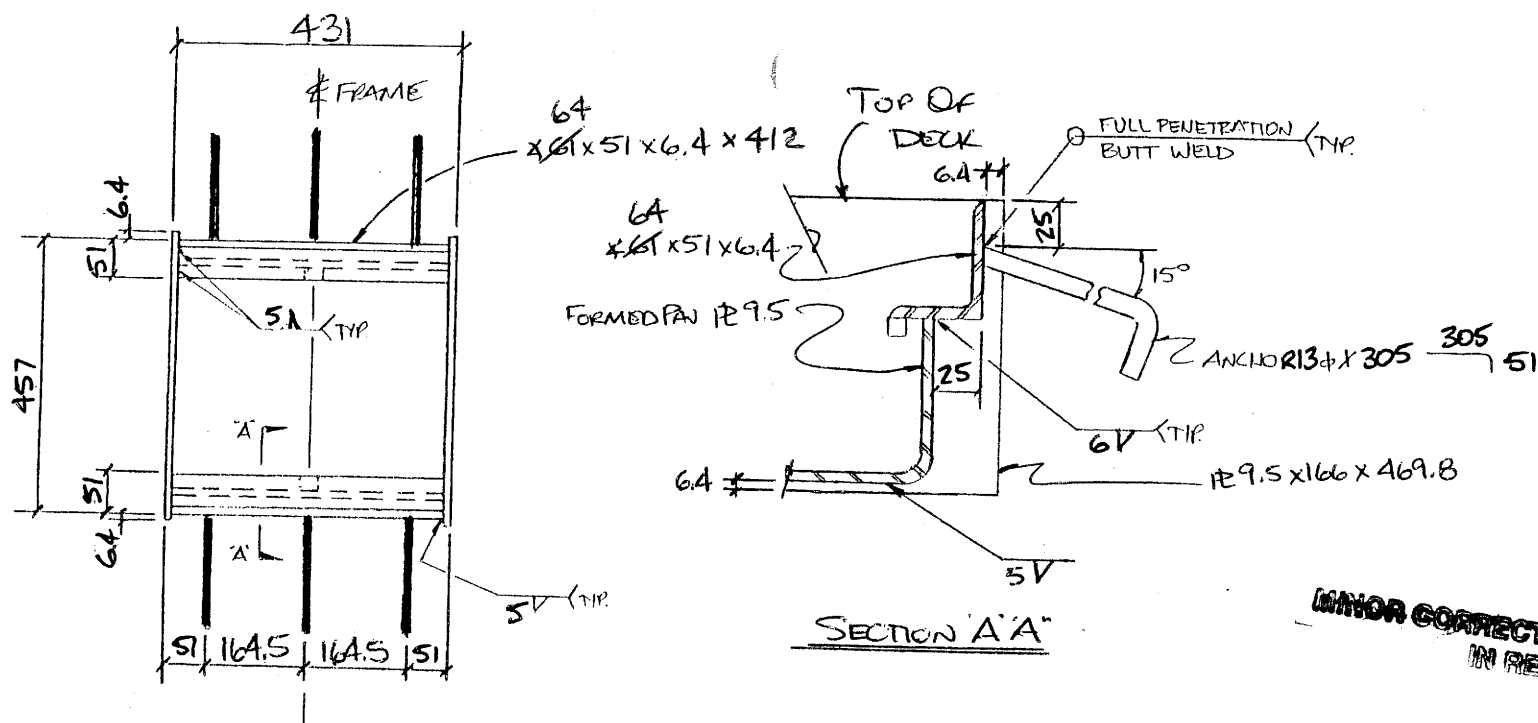
P.O. Box 2299

Glendora, CA 91741

(909) 823-7111 FAX (909) 823-1992

LAPCO

610 "A"



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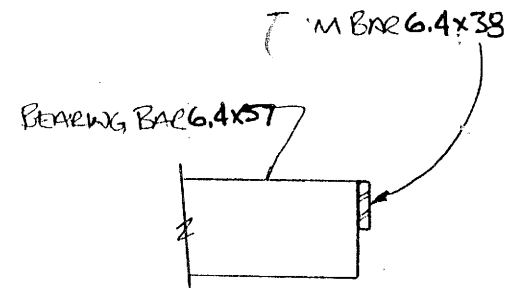
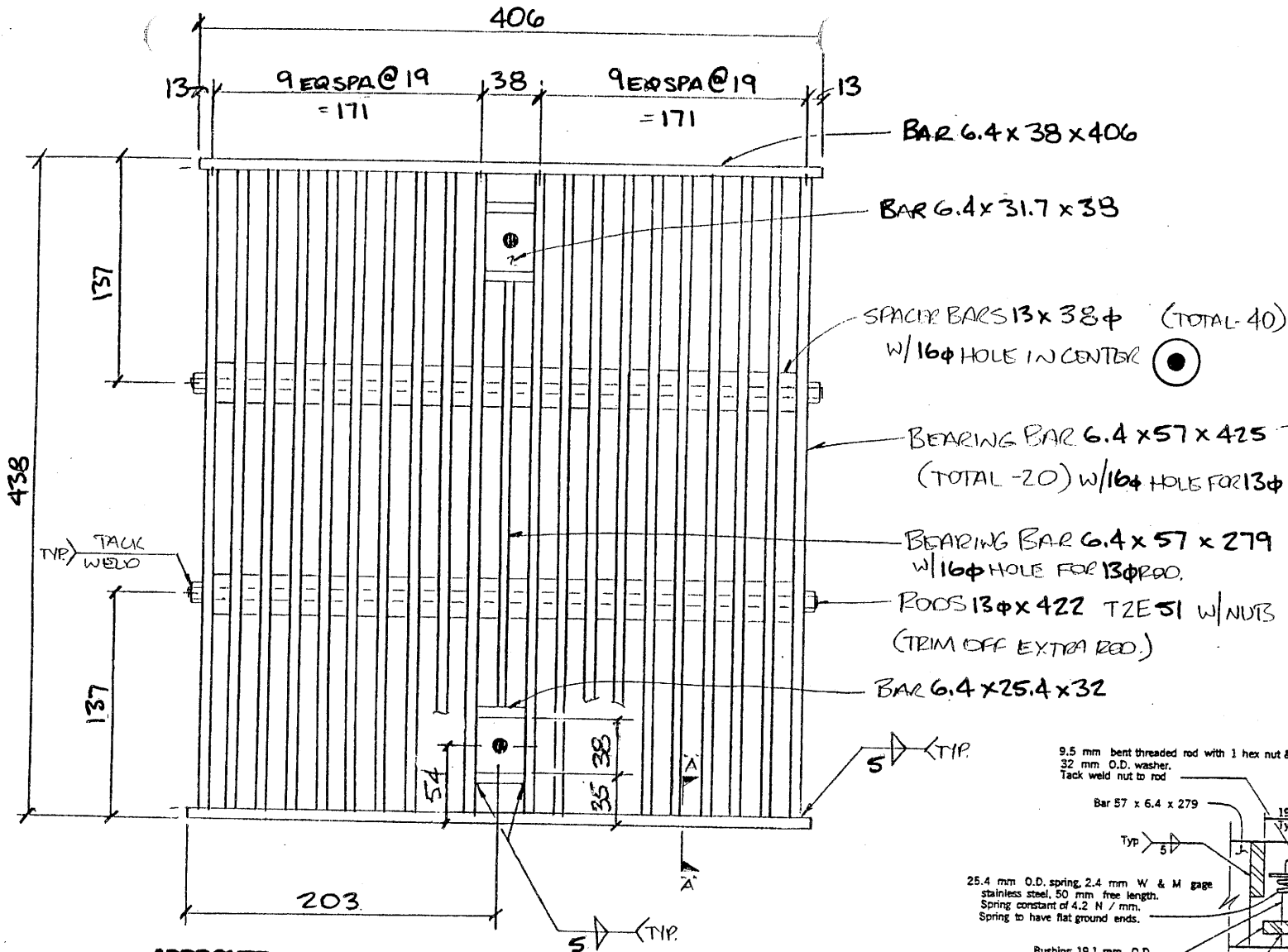
610 ①

NOTES:
1) FOR GRATE DETAIL SEE SHEET "2".
2) FOR ALL NOTES SEE GENERAL NOTES ON SHEET "A".

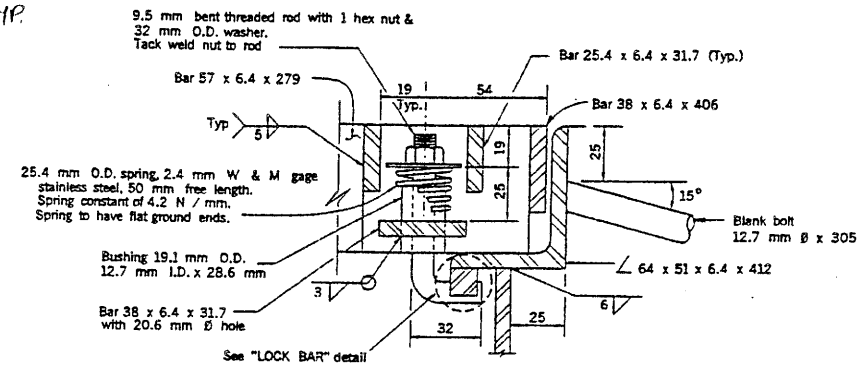
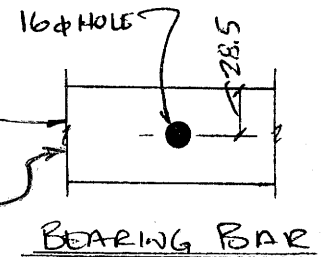
MOD. D-2 DECK DRAIN

2-REAR

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SECTION A-A



DETAIL A

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GRATE

2-R500

REDK

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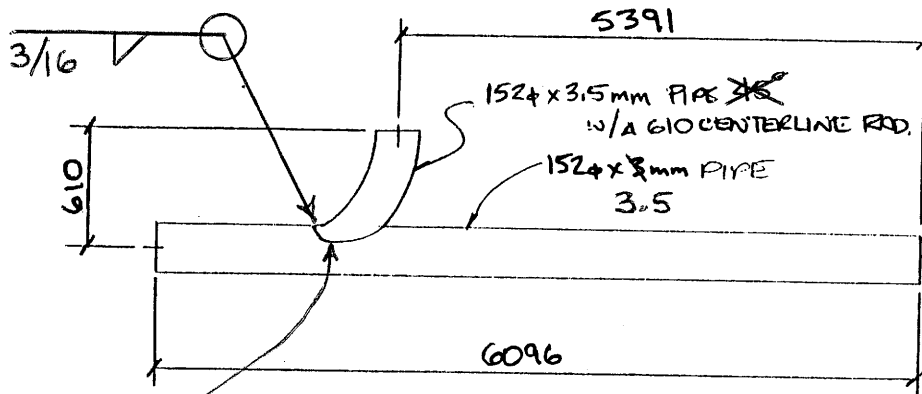
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NOTE: DESIGN DIVISION

1) FOR ALL NOTES SEE GENERAL

NOTES ON SHEET "A"

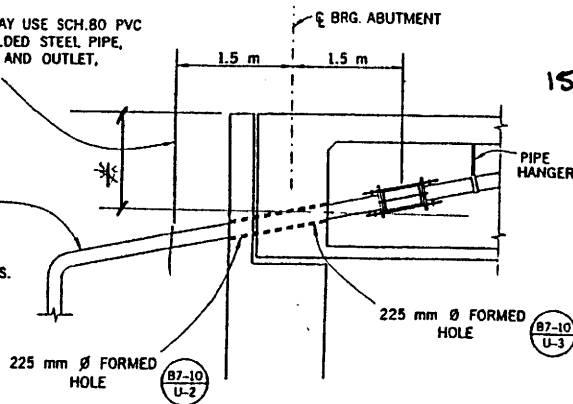


"T" CONNECTION

Grind mating surfaces smooth inside.
 "Joints in drain pipe shall be watertight, and shall be smooth and free from projections or offsets in excess of 2 mm on the inside." (Caltrans Std. Spec's., Section 75-1.03)

NO PIPE COUPLINGS BETWEEN THIS LOCATION AND EXPANSION COUPLING.
 CONTRACTOR MAY USE SCH.80 PVC IN LIEU OF WELDED STEEL PIPE, BETWEEN HERE AND OUTLET, AT HIS OPTION.

DOWNDRAIN PIPE. SEE "STRUCTURE APPROACH DRAINAGE DETAILS" AND "SLOPE PAVING DETAILS" SHEETS.



* CONTRACTOR VERIFY

DECK DRAIN PIPE AT ABUTMENT

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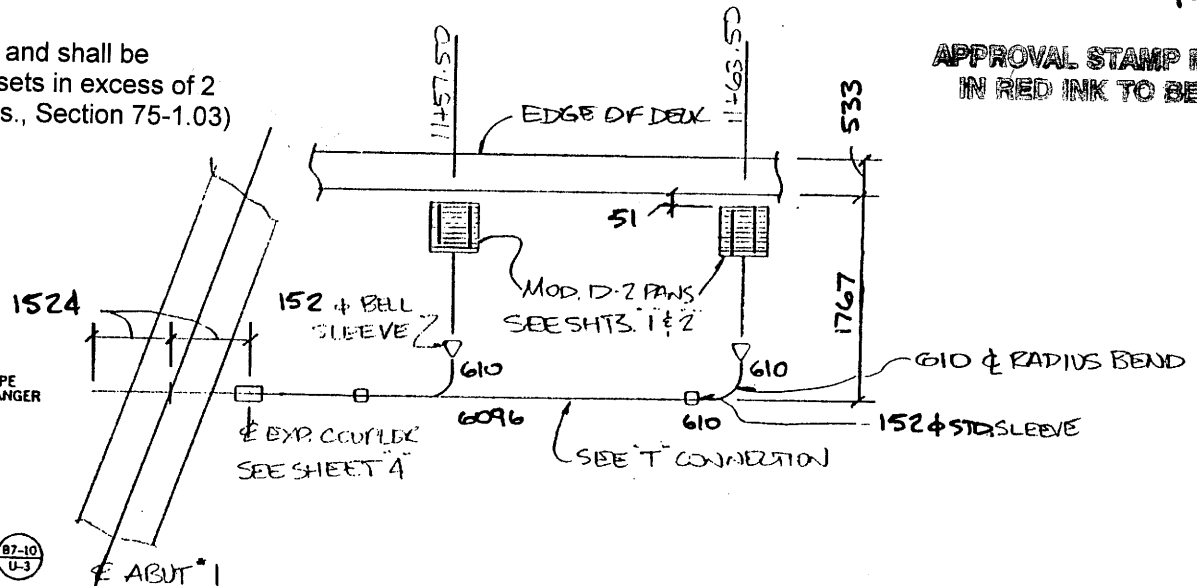
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DECK DRAIN LAYOUT

MINOR CORRECTIONS SHOWN
 IN RED

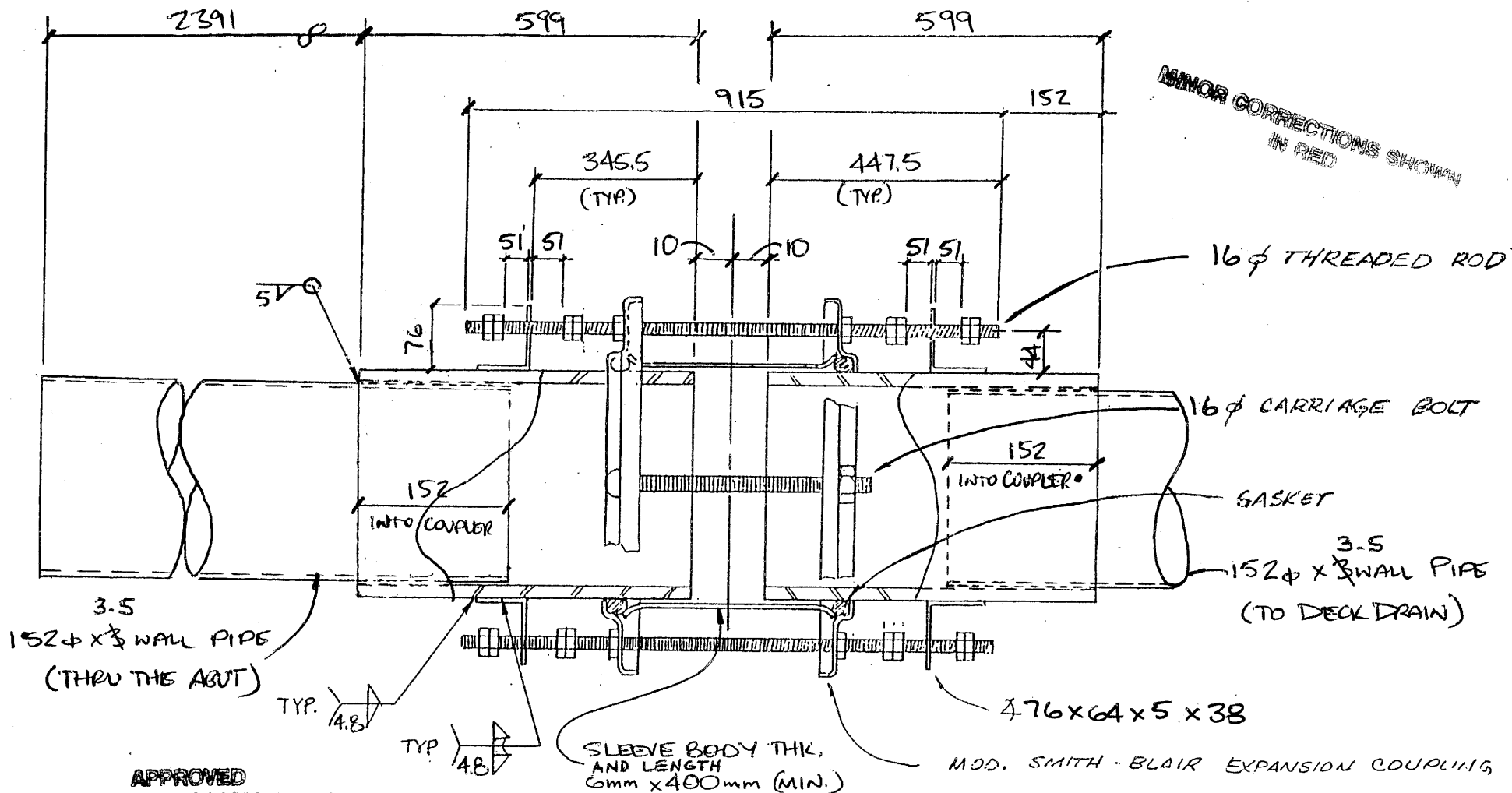
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610 (3)

NOTE:

1) FOR ALL NOTES SEE GENERAL

NOTES ON SHEET "A".



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RWH

NOTE:

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152φ EXPANSION COUPLING

1-ROD

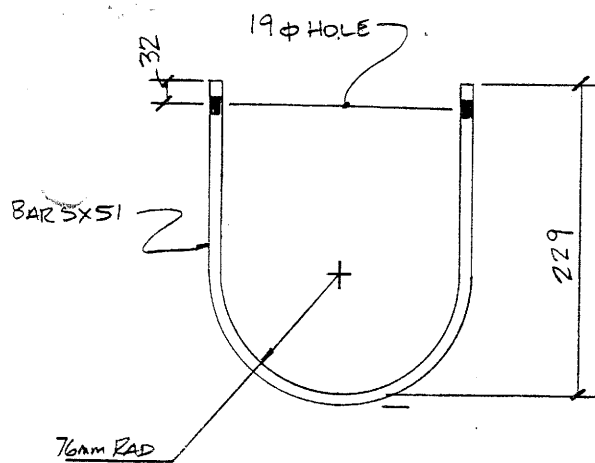
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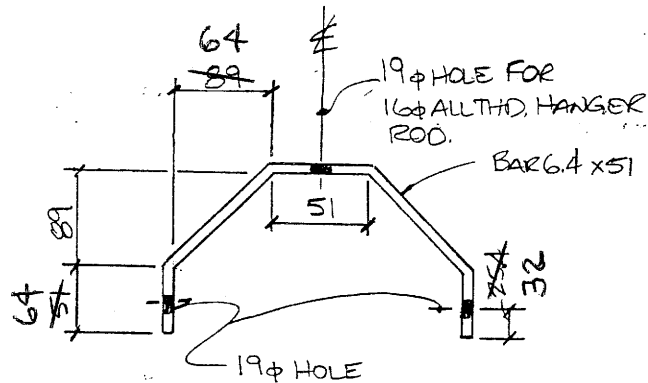
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610④

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BOTTOM OF HANGER



TOP OF HANGER

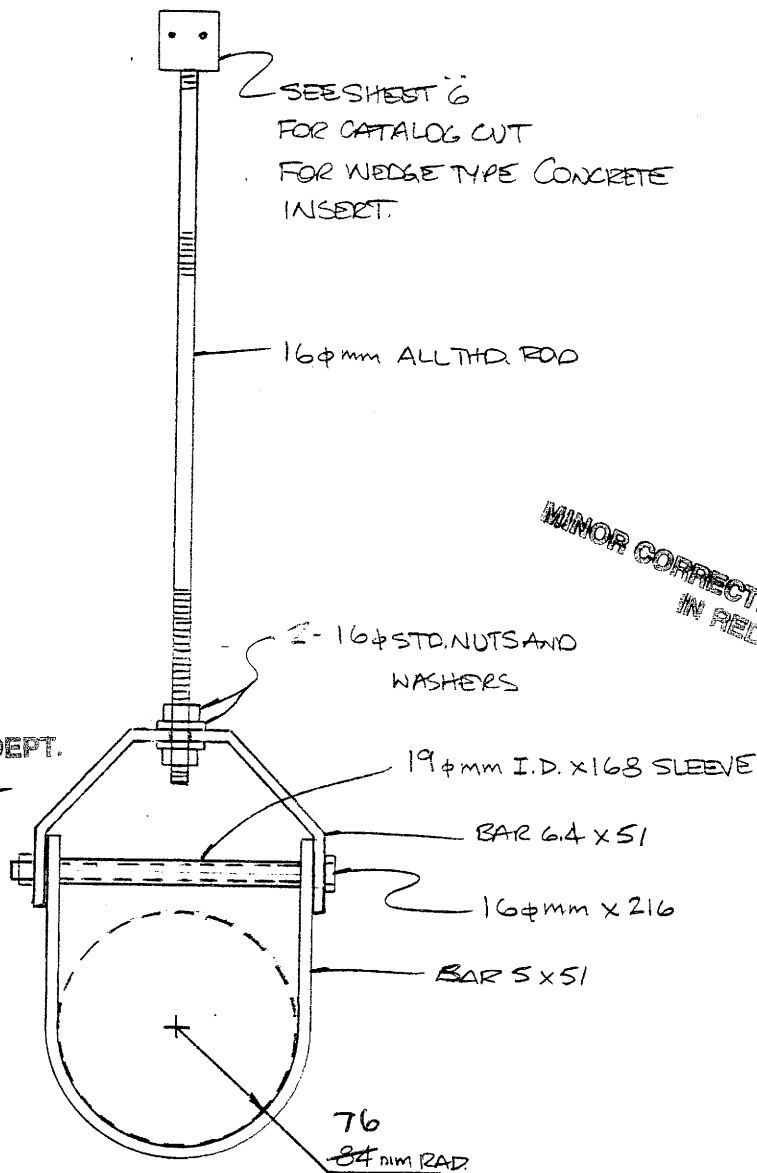
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DECK DRAIN PIPE SUPPORT

5-REID

GALV. AFTER FABR.

LAPCO

G10 (5)

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DESIGN DIVISION

APR 13 2000

MATERIAL: Carbon steel body; malleable iron nut.

FINISH: Black or galvanized.

SERVICE: Upper attachment for suspending pipe or conduit from concrete ceiling.

APPROVALS: The 3/8 inch rod size is Underwriters Laboratories listed and Factory Mutual approved for use with up to 4 inch size pipe while the 1/2 through 3/4 inch rod sizes are listed/approved for use with up to 8 inch size pipe. Complies with Federal Specification WW-H-171E (Type 19) and Manufacturers Standardization Society SP-69 (Type 18).

INSTALLATION:

- (1) Nail insert to wooden forms.
- (2) Where convenient, reinforcing rods may be placed in the opening through the top of the insert, or short lengths of reinforcing rod may be wired to the insert prior to pouring concrete. However, note that the specified load ratings and approvals are not dependent on the use of any reinforcing rods in contact with the insert.
- (3) After concrete is poured and wooden forms are removed, insert screw driver into slot in knockout plate and snap it out.
- (4) The nut may be put on the rod before inserting in the insert body. Then, turn rod so that elongated nut lies across the slot; screw rod through nut until rod is firmly against the top of the recess.

FEATURES:

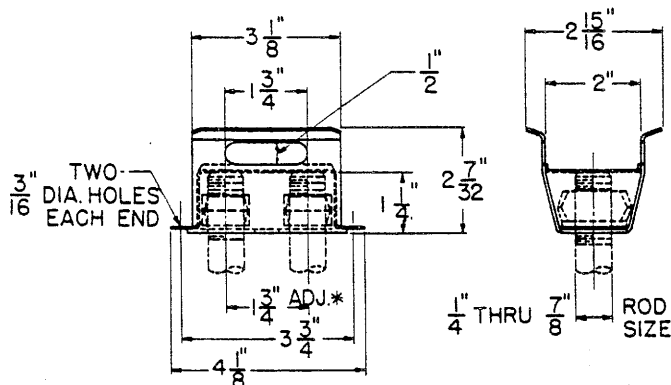
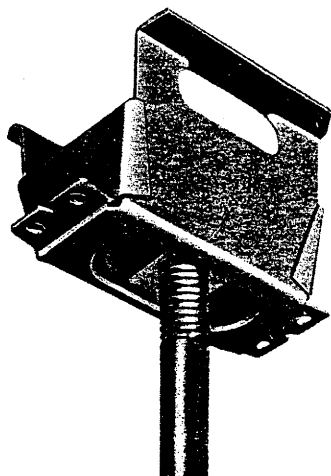
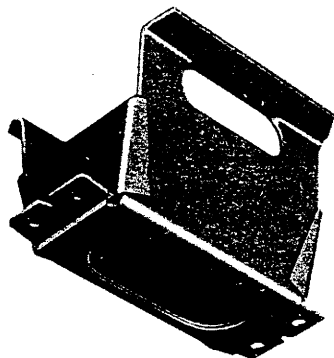
- Nut may be put on hanger rod before insertion, avoiding need of locating nut in insert body prior to inserting rod.
- Insert nut, when located in position, wedges against the sloping sides of insert, providing greater support than if resting on lower edge of the insert body.
- Wedge-shaped body is so held by concrete in compression thus increasing load carrying capacity.
- Easily removed knockout plate.
- Rod can be adjusted along complete length of slot.
- One body for six sizes of rod.

ORDERING: Specify figure number, name, size of nut tapping if nut is required.

loads • weights

	nut size	maximum recommended load, lb■	weight (approx) lbs each
insert complete with nut	1/4	240	.82
	3/8	610	.82
	1/2	1130	.86
	5/8	1200	.89
	3/4	1200	.86
	7/8	1200	.93
insert only	...	...	.69
nut only	1/4	...	.13
	3/8	...	.13
	1/2	...	.17
	5/8	...	.20
	3/4	...	.17
	7/8	...	.24

■ Based on insert and nut only. Rating is subject to the condition that the concrete used is of sufficient strength to hold the insert.



Rock

LAPCO
610 (6)