

## PLAN

### ELEVATION

## TYPICAL INTERCEPTOR OUTFALL STRUCTURE LAYOUT

## PLAN

SECTION \_\_\_\_\_

TYPICAL OFFSITE DITCH  
INTERCEPTOR STRUCTURE  
(42" MAX.)

## PLAN

## SECTION C

TYPICAL BACKSLOPE  
INTERCEPTOR STRUCTURE  
(24" & 30" ONLY)

## PLAN

**SECTION D**

COMBINATION BACKSLOPE AND  
OFFSITE DITCH INTERCEPT  
(42" MAX.)

## PLAN

**SECTION E**

URBAN BACKSLOPE  
INTERCEPTOR STRUCTURE  
(24" ONLY)

## PLAN

### ELEVATION

## TYPICAL STORM SEWER OUTFALL STRUCTURE LAYOUT

### TYPICAL CONCRETE COLLAR DETAIL

TIMBER BENT DETAIL  
FOR 48" C.M.P. AND LARGER OUTFALLS

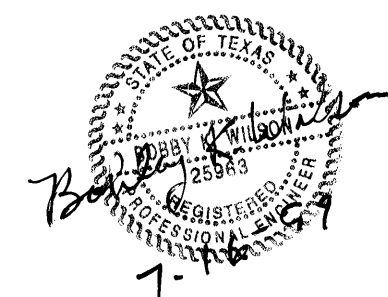
SECTION A

## PIPE ADJUSTMENT DETAIL 24-INCH TO 42-INCH DIAMETER

## PIPE ADJUSTMENT DETAIL 48-INCH AND LARGER DIAMETER

## GENERAL NOTES

- INTERCEPTOR STRUCTURE OUTFALLS > 48" DIAMETER AND ALL STORM SEWER AND TREATMENT PLANT OUTFALLS SHALL BE INSTALLED WITH RIPRAP EROSION PROTECTION, DIMENSIONED AS SHOWN IN " TYPICAL STORM SEWER OUTFALL STRUCTURE LAYOUT."
- ALL STORM SEWER AND INTERCEPTOR OUTFALL PIPES WITHIN THE HCPCD RIGHT-OF-WAY SHALL BE CORRUGATED METAL PIPE (CMP) IN ACCORDANCE WITH HCPCD SPECIFICATION NO. 02642-CORRUGATED METAL PIPE.
- CEMENT STABILIZED SAND SHALL BE PROVIDED AND PLACED IN ACCORDANCE WITH HCPCD SPECIFICATION NO. 02321-CEMENT STABILIZED SAND.
- TIMBER BENTS SHALL BE IN ACCORDANCE WITH HCPCD SPECIFICATION NO.02464-TIMBER BENTS.
- ALL EXCAVATION, FILL AND BACKFILL FOR THE INTERCEPTOR STRUCTURES SHALL BE IN ACCORDANCE WITH HCPCD SPECIFICATION NO. 02316 - STRUCTURAL EXCAVATION AND BACKFILLING.
- RIPRAP SHALL BE IN ACCORDANCE WITH HCPCD SPECIFICATION NO. 02378-RIPRAP.
- CONCRETE SHALL BE IN ACCORDANCE WITH HCPCD SPECIFICATION NO. 03316-CONCRETE.
- ALL INTERCEPTOR STRUCTURES SHALL HAVE:
  - a. 2- FEET DEEP X 8-INCH WIDE TOE ALL AROUND THE STRUCTURE.
  - b. STEEL REINFORCING - 4 BARS (GRADE 40) AT 12 INCHES C.C., EACH WAY, OR FIBERMESH REINFORCEMENT.
- THE FLOWLINE OF ALL OUTFALL PIPES SHALL BE 1 FOOT ABOVE THE DESIGN CHANNEL FLOWLINE, OR 1 FOOT ABOVE NORMAL WATER SURFACE ELEVATION.
- SLOPE LAST 20 FEET OF OUTFALL PIPE 6 INCH.
- SEE THE CONCRETE PAVING DETAIL SHEET FOR CMP OUTFALL DETAILS THROUGH CONCRETE PAVING.
- CONCRETE PAD AROUND THE TYPE "B" INLET SHALL BE PAID FOR AS CONCRETE INTERCEPTOR STRUCTURE PER THE UNIT PRICE SCHEDULE. THE TYPE "B" INLET WITH GRATE TOP SHALL BE PAID FOR AS TYPE "B" INLET WITH GRATE TOP AS PER THE UNIT PRICE SCHEDULE.

[illegible]

HARRIS COUNTY  
FLOOD CONTROL DISTRICT

9900 NORTHWEST FREEWAY  
HOUSTON, TEXAS 77092

HARRIS COUNTY MUD 191 DETENTION FACILITIES
HIGHLAND TIMBERS SECTION 1 & 2
HCFC D OUTFALL AND INTERCEPTOR STRUCTURE DETAILS

	DATE: JUNE 1999	
	DRAWING NUMBER	
	1 OF 1	
	SHEET NUMBER	
	8 OF 9	