

ABBREVIATIONS

CL	CENTERLINE
Δ	DELTA = ANGLE
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
GB	GRADE BREAK
HORIZ	HORIZONTAL
HP	HIGH POINT
INV	INVERT
L	LENGTH
LAT	LATITUDE
LONG	LONGITUDE
MAX	MAXIMUM
MIN	MINIMUM
MSL	MEAN SEA LEVEL
N	NORTH
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RG	ROUGH GRADE
R/W	RIGHT-OF-WAY
S	SOUTH
STA	STATION
T	TANGENT
TYP	TYPICAL
VERT	VERTICAL
W	WEST
W/	WITH
YR	YEAR

LEGEND

	(60)	EXISTING CONTOUR
	60	PROPOSED CONTOUR (INDEX)
		PROPOSED CONTOUR (INTERMEDIATE)
		TOP/TOE OF SLOPE
		CONCRETE
		RIP-RAP (CEMENTED)
		RIP-RAP (UN-CEMENTED)
		CULVERTS w/ HEADWALL
		ROUGH GRADE ELEVATION
		INVERT ELEVATION
		SECTION CUT

GENERAL NOTES

- PROPERTY LINE LOCATION AND LIGO ACCESS ROAD RIGHT-OF-WAY ARE BY A SURVEY PERFORMED BY ALEX THERIOT JR & ASSOCIATES, INC., DENHAM SPRINGS, DATED MARCH 12, 1993.
- THE TOPOGRAPHY WITHIN THE PROPERTY LINES, WAS GENERATED BY COMPUTER METHODS FROM A STAKING SURVEY BY JOHN E. CHANCE & ASSOCIATES, INC., 200 DULLES DRIVE, LAFAYETTE, LOUISIANA, DATED MARCH 8, 1993. TOPOGRAPHY AND PLANIMETRIC FEATURES OUTSIDE THE PROPERTY BOUNDARY ARE BASED ON USGS'SATSUMA, LA. QUADRANGLE, DATED 1980.
- HORIZONTAL AND VERTICAL CONTROLS ARE ALSO FROM THE JOHN E. CHANCE SURVEY DESCRIBED IN NOTE 2, AND ARE AS FOLLOWS:
 HORIZONTAL CONTROL: ALL BEARINGS AND DISTANCES SHOWN HEREON ARE LAMBERT GRID, NAD 83, LOUISIANA SOUTH ZONE, MONUMENTS LIGO APEX, LIGO SW & LIGO SE SET FROM GPS CONTROL STATIONS LDH MONUMENTS 320003 AND 320002. ALL CONTROL MONUMENTS SET THIS SURVEY ARE #4 REBARS WITH ALUMINUM CAPS.
 VERTICAL CONTROL: ELEVATIONS SHOWN ARE MEAN SEA LEVEL, DATUM NGVD 1929, CONTROL MONUMENTS U.S. DEPT. OF COMMERCE, PBM # S-294, ELEVATION 42.47 FEET.
- STRAIGHT GRADE BETWEEN SPOT ELEVATIONS, UNLESS OTHERWISE SHOWN ON PLANS.
- GRADED SURFACES SHALL BE SLOPED UNIFORMLY FROM HIGH POINTS, RIDGE LINES AND AROUND STRUCTURES.
- WASTE AREAS WILL BE DESIGNATED IN THE FIELD BY THE CONSTRUCTION MANAGER.
- NOTES RELATING TO A SPECIFIC DRAWING WILL BE FOUND ON THE DRAWING FOR WHICH THEY ARE APPLICABLE.
- ALL UNDERGROUND PIPES AND CULVERTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION FROM HEAVY MOVING EQUIPMENT.
- DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING UTILITIES ARE TO BE VERIFIED PRIOR TO START OF CONSTRUCTION BY CONTRACTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO APPLY A DUST INHIBITOR ON ALL ROADS, AT THE DIRECTION OF THE CONSTRUCTION MANAGER.
- GEOTECHNICAL INFORMATION AND SOIL BORING SUMMARIES ARE FROM AN INVESTIGATION BY WOODWARD-CLYDE CONSULTANTS, 2822 ONEAL LANE, BATON ROUGE, LOUISIANA, DATED FEBRUARY, 1995. A COPY OF THIS REPORT IS ON FILE WITH THE CONSTRUCTION MANAGER.
- DRAINAGE CONSIDERATIONS INCORPORATED WITHIN THE DRAWINGS ARE FROM A HYDROLOGIC AND HYDRAULIC REPORT BY GULF ENGINEERS & CONSULTANTS, INC., 9357 INTERLINE AVENUE, BATON ROUGE, LOUISIANA, DATED DECEMBER, 1994. A COPY OF THIS REPORT IS ON FILE WITH THE CONSTRUCTION MANAGER.
- THE STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT, OFFICE OF HIGHWAYS, STANDARD PLANS ARE A PART OF THESE DOCUMENTS TO THE EXTENT REFERENCED.
- THE STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ARE A PART OF THESE DOCUMENTS TO THE EXTENT REFERENCED.

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STATE OF LOUISIANA
 DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
 OFFICE OF HIGHWAYS
 STANDARD PLANS

PLAN NO	TITLE
CM - 198	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 18" TO 36" DIA TWO (2), THREE (3) & FOUR (4) OPENINGS
BM - 01	BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES
CM - 49	EXPANSION & CONSTRUCTION JOINTS FOR CONCRETE STRUCTURES
R - P - 67	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 18" TO 60" DIA
CM - 198	REINFORCED CONCRETE PIPE CULVERT HEADWALLS STRAIGHT WINGS, 42" TO 60" DIA TWO (2), THREE (3) & FOUR (4) OPENINGS
R - P - 67	STRAIGHT HEADWALL FOR 72" R. C. PIPE ONE (1) THRU SIX (6) OPENINGS

L160 - 096 1712 - A - 0

NO.	DATE	APRD BY	DESCRIPTION OF REVISION
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1	8/11/95	JUB	FINAL DESIGN REVIEW

NO.	DATE	APRD BY	ISSUED FOR
9			
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1	8/11/95	JUB	FINAL DESIGN REVIEW

DATE	8/11/95
DRAWN	WRB WRS
CHECKED	MGP MGP
SECT HD	
PROJ MGR	
CLIENT	

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 ROUGH GRADING - LIVINGSTON, LA

TITLE	ROUGH GRADING GENERAL NOTES, LEGEND & ABBREVIATIONS
SCALE	NONE
CONTRACT NUMBER	PPI50969
PROJECT NUMBER	8094
SHEET NUMBER	RG-C-002
REVISIONS	