

#### CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC

PIPE SPAN,	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
		MINIMUM C	COVER (FT)	
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.



NOT TO SCALE

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

### SCOPE

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

## MATERIAL

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

# PIPE

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.						× 10 1
		MAT	ERIAL SPECIFICAT	ION	MITCHEL	MTHARDERT DEADS CENSE
Approved Date   By MTH 12/5/19   Project No. Rev.   CBC-22908 -		Eng	BC BR By D	escription	۲۹۹۵۵۵ CBC ENGINE TBPE FIRM N	ERS & ASSOCIATES, LTD. NUMBER F-16105
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HANDLING AND ASSEMBLY

WITH THE SITE ENGINEER.

INSTALLATION

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE

SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II

OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS

AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR

CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO

NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA)

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD

FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.



5. REINFORCING STEEL = ASTM A615, GRADE 60.

6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.

> IÌÄ ÁMÞÖÒÜŐÜUWÞÖÁÖÒVÒÞVQUÞÁÙŸÙVÒT - 577163-010 CHICK FIL A - LAKESHORE COMMONS ROCKWALL, TX SITE DESIGNATION: UNDERGROUND STORAGE

	REINFORCING TABLE					
J	А	ÓÁ	REINFORCING	**BEARING PRESSURE (PSF)		
	I ଢ 4'x4'	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900		
	I0ĒİÄ≼ 4'-6"x4'-6"	32"	#5 @ 10" OCEW #5 @ 9" OCEW	2,260 1,670		
	Í & 5' x 5'	38"	#5 @ 9" OCEW #5 @ 8" OCEW	2,060 1,500		
	Í0ĒÎÄ≼ 5'-6"x5'-6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370		
	Î & 6' x 6'	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270		

# MANHOLE CAP DETAIL

NOT TO SCALE

PROJECT No.:	SEQ. No.:		DATE:	
577163	010		10/15/2019	
DESIGNED:		DRAW	/N:	
LMO			PDW/SJ	
CHECKED:		APPR	OVED:	
SHEET NO.: C4	С	)F	C5	
	PS-4.4			

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