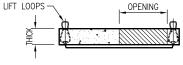


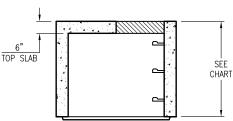
TOP SLAB

THICKNESS	WEIGHT (lbs)
6"	1,560
8"	1,997



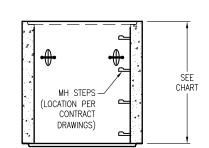
RETURN TOP

HEIGHT	WEIGHT (lbs)
1.5'	2,497
2.5'	3,622
3.5'	4,747
4.5'	5,872



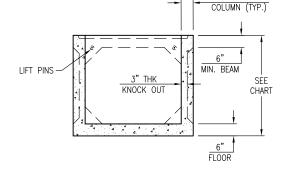
RISER SECTION

HEIGHT 0.67' 1.33' 2.67' 4.00'	WEIGHT (lbs)			
0.67'	742			
1.33'	1,485			
2.67'	2,992			
4.00'	4,488			



WAFFLE BOX

	HEIGHT	WEIGHT (lbs)		
	3.5'	3,722		
		4,397		
		5,072		



PIPE OPENINGS CAST INTO

PRECAST (AS REQUIRED)

SOLI	O BOX		-71	_		
HEIGHT	WEIGHT (lbs)		[-1	V ¬	⁄ ፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፟፟፞፞፞፞፟፟/ ፟፟፟	
3.5'	4,616				\ 러 1	 SEE
4.5'	5,741			/	\	CHART
5.5'	6,866			1		
		EXTENSION —		6'-0" 0.	.D.	6" FLOOR
		(712 LBS)	S	CALE (TYP): 1/4	!" = 1'-0"	

UTILITY

LIFTERS

GENERAL DESIGN NOTES:

- STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
- APPLICABLE DESIGN DOCUMENTS (CURRENT EDITIONS):
- NCDOT STANDARD DRAWING # 840.45 (WAFFLE/NON TRAFFIC RATED) OR # 840.46(SOLID / TRAFFIC RATED).
- ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION).
- ASTM C890 STANDARD PRACTICE FOR MINIMUM STRUCTURAL LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES (LOADING SPECIFICATION)
- ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE & WATER & WASTEWATER STRUCTURES.
- MAX DEPTH TO INVERT OF PRECAST (I.E. FLOOR) = 15' FOR SOLID BASE & 10' FOR WAFFLE BASE.
- GWT ASSUMED BELOW INVERT OF PRECAST.
- LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN):
 - EQUIV DRY SOIL FLUID PRESSURE = 47 PCF.
 - EQUIV SATURATED SOIL FLUID PRESSURE = 85 PCF.
 - LIVE LOAD SURCHARGE = 80 PSF.
- DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 4,000 PSI (MIN).
- REINFORCEMENT:
 - CARBON-STEEL DEFORMED BARS: ASTM A615, fy = 60KSI (MIN).
 - WELDED WIRE REINFORCEMENT (DEFORMED): ASTM A1064 fy = 70 KSI (MIN).
- COPOLYMER POLY PROPYLENE STEEL REINFORCED STEPS I.A.W ASTM C478 SPACED 16" O.C.
- PRECAST BASE AND RISER SECTIONS MAY BE USED FOR THE FOLLOWING DOT STANDARDS AS NOTED ON NCDOT STANDARD DRAWING:
 - WAFFLE BOX (NCDOT#840.45):
 - 840.01, 840.20, 8940.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.28, 840.31, 840.32 & 840.41.
 - SOLID BOX (NCDOT #840.46):

 - 840.04, 840.05, 840.14, 840.31, 840.32, 840.34, 840.35, 840.36, & 840.41.
 MIN 4" BEAM FOR OPENINGS IN WALL & 6" BEAM FOR CORNER HOLES PER NC DOT.
- LIFT LOOPS, PINS OR UTILITY ANCHORS PROVIDED FOR HANDLING. CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING OLDCASTLE PRECAST, INC. LIFTING INSTRUCTIONS AS SHOWN ON BACK OF SHIPPING TICKET.



**THIS MUS	T BE FILI	ED OUT	BEFORE I	MANUFAC ⁻	FURIN	IG BEC	SINS
	APPRO	OVED W/	NO EXCEPTION	NS TAKEN:			
			APPROVED	AS NOTED:	司		
		F	REVISED AND	RESUBMIT:			
SIGNATURE					DATE		
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	1431 PROI	DUCT RD. FL	JQUAY VARINA, FAX 844-866-747	NC	NC I	ENGINEE ENSE #F-	RING
THIS DOCUMENT SUBMITTED FOR I TO THE INTEREST COPYRIGHT © 201	REFERENCE F S OF, OR WIT	PURPOSES (ONLY, AND SHAL WRITTEN PERMI	L NOT BE USED SSION OF OLD	IN ANY	WAY INJ	
30"x48" SUBMITTAL		NAGE	BOX				
CUSTOMER							
DATE 08/07/17	SALES	DRAWN PPS	ENGINEER	CHECKED	SA	LES ORE	DER
	DRAWING N	UMBER		REVISION		SHEET	
30x48 DRAINAGE BOXES				REV DATE	1	OF	1