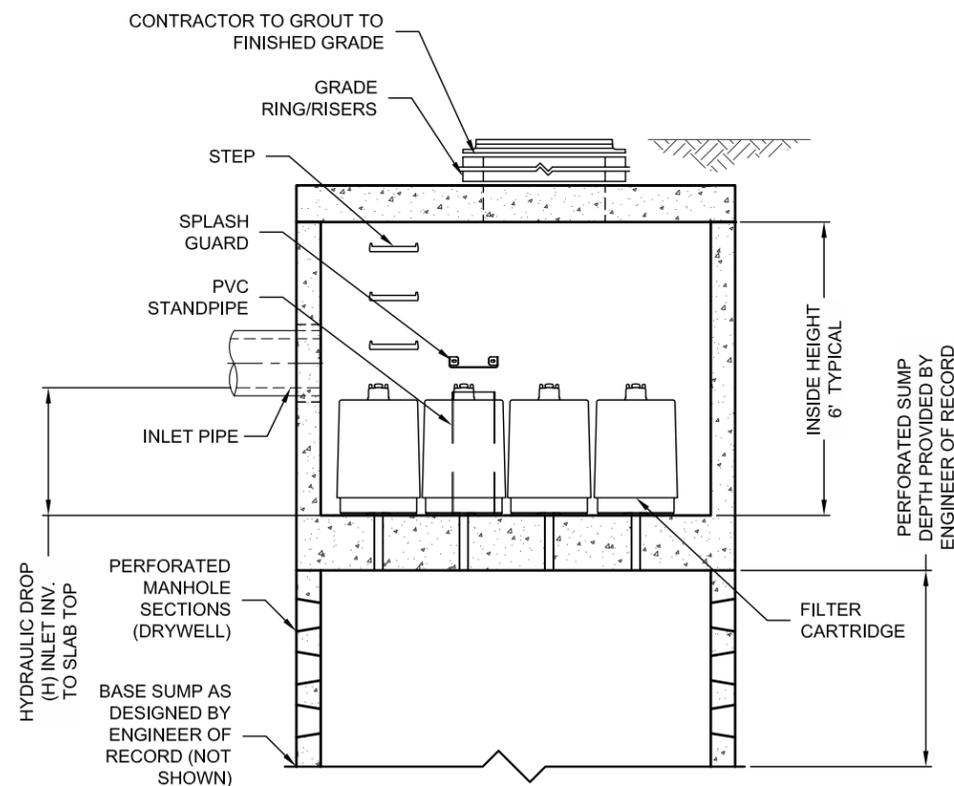


PLAN VIEW
(TOP SLAB NOT SHOWN)



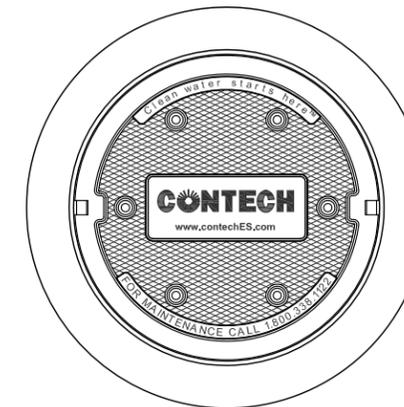
SECTION A-A

INFILTRATION STORMFILTER DESIGN NOTES

INFILTRATION STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (14). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 14 CARTRIDGES.
 Ø96" MANHOLE INFILTRATION STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.8 CFS. IF THE SITE CONDITIONS EXCEED 1.8 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"		18"		LOW DROP	
RECOMMENDED HYDRAULIC DROP (H)	3.05'		2.3'		1.8'	
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/ft ²	1 gpm/ft ²	2 gpm/ft ²	1 gpm/ft ²	2 gpm/ft ²	1 gpm/ft ²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*		
WATER QUALITY FLOW RATE (cfs)	*		
PEAK FLOW RATE (cfs)	*		
RETURN PERIOD OF PEAK FLOW (yrs)	*		
# OF CARTRIDGES REQUIRED	*		
CARTRIDGE FLOW RATE	*		
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)	*		
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION	*		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	*	*	
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 39 SECONDS.
- SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING: U.S. PATENTS: 5,322,228; 5,344,412; 5,781,471; 5,848,767; 6,022,000; 6,049,040; 6,081,440; 6,111,440; 6,111,441; 6,111,442; 6,111,443; 6,111,444; 6,111,445; 6,111,446; 6,111,447; 6,111,448; 6,111,449; 6,111,450; 6,111,451; 6,111,452; 6,111,453; 6,111,454; 6,111,455; 6,111,456; 6,111,457; 6,111,458; 6,111,459; 6,111,460; 6,111,461; 6,111,462; 6,111,463; 6,111,464; 6,111,465; 6,111,466; 6,111,467; 6,111,468; 6,111,469; 6,111,470; 6,111,471; 6,111,472; 6,111,473; 6,111,474; 6,111,475; 6,111,476; 6,111,477; 6,111,478; 6,111,479; 6,111,480; 6,111,481; 6,111,482; 6,111,483; 6,111,484; 6,111,485; 6,111,486; 6,111,487; 6,111,488; 6,111,489; 6,111,490; 6,111,491; 6,111,492; 6,111,493; 6,111,494; 6,111,495; 6,111,496; 6,111,497; 6,111,498; 6,111,499; 6,111,500; 6,111,501; 6,111,502; 6,111,503; 6,111,504; 6,111,505; 6,111,506; 6,111,507; 6,111,508; 6,111,509; 6,111,510; 6,111,511; 6,111,512; 6,111,513; 6,111,514; 6,111,515; 6,111,516; 6,111,517; 6,111,518; 6,111,519; 6,111,520; 6,111,521; 6,111,522; 6,111,523; 6,111,524; 6,111,525; 6,111,526; 6,111,527; 6,111,528; 6,111,529; 6,111,530; 6,111,531; 6,111,532; 6,111,533; 6,111,534; 6,111,535; 6,111,536; 6,111,537; 6,111,538; 6,111,539; 6,111,540; 6,111,541; 6,111,542; 6,111,543; 6,111,544; 6,111,545; 6,111,546; 6,111,547; 6,111,548; 6,111,549; 6,111,550; 6,111,551; 6,111,552; 6,111,553; 6,111,554; 6,111,555; 6,111,556; 6,111,557; 6,111,558; 6,111,559; 6,111,560; 6,111,561; 6,111,562; 6,111,563; 6,111,564; 6,111,565; 6,111,566; 6,111,567; 6,111,568; 6,111,569; 6,111,570; 6,111,571; 6,111,572; 6,111,573; 6,111,574; 6,111,575; 6,111,576; 6,111,577; 6,111,578; 6,111,579; 6,111,580; 6,111,581; 6,111,582; 6,111,583; 6,111,584; 6,111,585; 6,111,586; 6,111,587; 6,111,588; 6,111,589; 6,111,590; 6,111,591; 6,111,592; 6,111,593; 6,111,594; 6,111,595; 6,111,596; 6,111,597; 6,111,598; 6,111,599; 6,111,600; 6,111,601; 6,111,602; 6,111,603; 6,111,604; 6,111,605; 6,111,606; 6,111,607; 6,111,608; 6,111,609; 6,111,610; 6,111,611; 6,111,612; 6,111,613; 6,111,614; 6,111,615; 6,111,616; 6,111,617; 6,111,618; 6,111,619; 6,111,620; 6,111,621; 6,111,622; 6,111,623; 6,111,624; 6,111,625; 6,111,626; 6,111,627; 6,111,628; 6,111,629; 6,111,630; 6,111,631; 6,111,632; 6,111,633; 6,111,634; 6,111,635; 6,111,636; 6,111,637; 6,111,638; 6,111,639; 6,111,640; 6,111,641; 6,111,642; 6,111,643; 6,111,644; 6,111,645; 6,111,646; 6,111,647; 6,111,648; 6,111,649; 6,111,650; 6,111,651; 6,111,652; 6,111,653; 6,111,654; 6,111,655; 6,111,656; 6,111,657; 6,111,658; 6,111,659; 6,111,660; 6,111,661; 6,111,662; 6,111,663; 6,111,664; 6,111,665; 6,111,666; 6,111,667; 6,111,668; 6,111,669; 6,111,670; 6,111,671; 6,111,672; 6,111,673; 6,111,674; 6,111,675; 6,111,676; 6,111,677; 6,111,678; 6,111,679; 6,111,680; 6,111,681; 6,111,682; 6,111,683; 6,111,684; 6,111,685; 6,111,686; 6,111,687; 6,111,688; 6,111,689; 6,111,690; 6,111,691; 6,111,692; 6,111,693; 6,111,694; 6,111,695; 6,111,696; 6,111,697; 6,111,698; 6,111,699; 6,111,700; 6,111,701; 6,111,702; 6,111,703; 6,111,704; 6,111,705; 6,111,706; 6,111,707; 6,111,708; 6,111,709; 6,111,710; 6,111,711; 6,111,712; 6,111,713; 6,111,714; 6,111,715; 6,111,716; 6,111,717; 6,111,718; 6,111,719; 6,111,720; 6,111,721; 6,111,722; 6,111,723; 6,111,724; 6,111,725; 6,111,726; 6,111,727; 6,111,728; 6,111,729; 6,111,730; 6,111,731; 6,111,732; 6,111,733; 6,111,734; 6,111,735; 6,111,736; 6,111,737; 6,111,738; 6,111,739; 6,111,740; 6,111,741; 6,111,742; 6,111,743; 6,111,744; 6,111,745; 6,111,746; 6,111,747; 6,111,748; 6,111,749; 6,111,750; 6,111,751; 6,111,752; 6,111,753; 6,111,754; 6,111,755; 6,111,756; 6,111,757; 6,111,758; 6,111,759; 6,111,760; 6,111,761; 6,111,762; 6,111,763; 6,111,764; 6,111,765; 6,111,766; 6,111,767; 6,111,768; 6,111,769; 6,111,770; 6,111,771; 6,111,772; 6,111,773; 6,111,774; 6,111,775; 6,111,776; 6,111,777; 6,111,778; 6,111,779; 6,111,780; 6,111,781; 6,111,782; 6,111,783; 6,111,784; 6,111,785; 6,111,786; 6,111,787; 6,111,788; 6,111,789; 6,111,790; 6,111,791; 6,111,792; 6,111,793; 6,111,794; 6,111,795; 6,111,796; 6,111,797; 6,111,798; 6,111,799; 6,111,800; 6,111,801; 6,111,802; 6,111,803; 6,111,804; 6,111,805; 6,111,806; 6,111,807; 6,111,808; 6,111,809; 6,111,810; 6,111,811; 6,111,812; 6,111,813; 6,111,814; 6,111,815; 6,111,816; 6,111,817; 6,111,818; 6,111,819; 6,111,820; 6,111,821; 6,111,822; 6,111,823; 6,111,824; 6,111,825; 6,111,826; 6,111,827; 6,111,828; 6,111,829; 6,111,830; 6,111,831; 6,111,832; 6,111,833; 6,111,834; 6,111,835; 6,111,836; 6,111,837; 6,111,838; 6,111,839; 6,111,840; 6,111,841; 6,111,842; 6,111,843; 6,111,844; 6,111,845; 6,111,846; 6,111,847; 6,111,848; 6,111,849; 6,111,850; 6,111,851; 6,111,852; 6,111,853; 6,111,854; 6,111,855; 6,111,856; 6,111,857; 6,111,858; 6,111,859; 6,111,860; 6,111,861; 6,111,862; 6,111,863; 6,111,864; 6,111,865; 6,111,866; 6,111,867; 6,111,868; 6,111,869; 6,111,870; 6,111,871; 6,111,872; 6,111,873; 6,111,874; 6,111,875; 6,111,876; 6,111,877; 6,111,878; 6,111,879; 6,111,880; 6,111,881; 6,111,882; 6,111,883; 6,111,884; 6,111,885; 6,111,886; 6,111,887; 6,111,888; 6,111,889; 6,111,890; 6,111,891; 6,111,892; 6,111,893; 6,111,894; 6,111,895; 6,111,896; 6,111,897; 6,111,898; 6,111,899; 6,111,900; 6,111,901; 6,111,902; 6,111,903; 6,111,904; 6,111,905; 6,111,906; 6,111,907; 6,111,908; 6,111,909; 6,111,910; 6,111,911; 6,111,912; 6,111,913; 6,111,914; 6,111,915; 6,111,916; 6,111,917; 6,111,918; 6,111,919; 6,111,920; 6,111,921; 6,111,922; 6,111,923; 6,111,924; 6,111,925; 6,111,926; 6,111,927; 6,111,928; 6,111,929; 6,111,930; 6,111,931; 6,111,932; 6,111,933; 6,111,934; 6,111,935; 6,111,936; 6,111,937; 6,111,938; 6,111,939; 6,111,940; 6,111,941; 6,111,942; 6,111,943; 6,111,944; 6,111,945; 6,111,946; 6,111,947; 6,111,948; 6,111,949; 6,111,950; 6,111,951; 6,111,952; 6,111,953; 6,111,954; 6,111,955; 6,111,956; 6,111,957; 6,111,958; 6,111,959; 6,111,960; 6,111,961; 6,111,962; 6,111,963; 6,111,964; 6,111,965; 6,111,966; 6,111,967; 6,111,968; 6,111,969; 6,111,970; 6,111,971; 6,111,972; 6,111,973; 6,111,974; 6,111,975; 6,111,976; 6,111,977; 6,111,978; 6,111,979; 6,111,980; 6,111,981; 6,111,982; 6,111,983; 6,111,984; 6,111,985; 6,111,986; 6,111,987; 6,111,988; 6,111,989; 6,111,990; 6,111,991; 6,111,992; 6,111,993; 6,111,994; 6,111,995; 6,111,996; 6,111,997; 6,111,998; 6,111,999; 6,112,000; 6,112,001; 6,112,002; 6,112,003; 6,112,004; 6,112,005; 6,112,006; 6,112,007; 6,112,008; 6,112,009; 6,112,010; 6,112,011; 6,112,012; 6,112,013; 6,112,014; 6,112,015; 6,112,016; 6,112,017; 6,112,018; 6,112,019; 6,112,020; 6,112,021; 6,112,022; 6,112,023; 6,112,024; 6,112,025; 6,112,026; 6,112,027; 6,112,028; 6,112,029; 6,112,030; 6,112,031; 6,112,032; 6,112,033; 6,112,034; 6,112,035; 6,112,036; 6,112,037; 6,112,038; 6,112,039; 6,112,040; 6,112,041; 6,112,042; 6,112,043; 6,112,044; 6,112,045; 6,112,046; 6,112,047; 6,112,048; 6,112,049; 6,112,050; 6,112,051; 6,112,052; 6,112,053; 6,112,054; 6,112,055; 6,112,056; 6,112,057; 6,112,058; 6,112,059; 6,112,060; 6,112,061; 6,112,062; 6,112,063; 6,112,064; 6,112,065; 6,112,066; 6,112,067; 6,112,068; 6,112,069; 6,112,070; 6,112,071; 6,112,072; 6,112,073; 6,112,074; 6,112,075; 6,112,076; 6,112,077; 6,112,078; 6,112,079; 6,112,080; 6,112,081; 6,112,082; 6,112,083; 6,112,084; 6,112,085; 6,112,086; 6,112,087; 6,112,088; 6,112,089; 6,112,090; 6,112,091; 6,112,092; 6,112,093; 6,112,094; 6,112,095; 6,112,096; 6,112,097; 6,112,098; 6,112,099; 6,112,100; 6,112,101; 6,112,102; 6,112,103; 6,112,104; 6,112,105; 6,112,106; 6,112,107; 6,112,108; 6,112,109; 6,112,110; 6,112,111; 6,112,112; 6,112,113; 6,112,114; 6,112,115; 6,112,116; 6,112,117; 6,112,118; 6,112,119; 6,112,120; 6,112,121; 6,112,122; 6,112,123; 6,112,124; 6,112,125; 6,112,126; 6,112,127; 6,112,128; 6,112,129; 6,112,130; 6,112,131; 6,112,132; 6,112,133; 6,112,134; 6,112,135; 6,112,136; 6,112,137; 6,112,138; 6,112,139; 6,112,140; 6,112,141; 6,112,142; 6,112,143; 6,112,144; 6,112,145; 6,112,146; 6,112,147; 6,112,148; 6,112,149; 6,112,150; 6,112,151; 6,112,152; 6,112,153; 6,112,154; 6,112,155; 6,112,156; 6,112,157; 6,112,158; 6,112,159; 6,112,160; 6,112,161; 6,112,162; 6,112,163; 6,112,164; 6,112,165; 6,112,166; 6,112,167; 6,112,168; 6,112,169; 6,112,170; 6,112,171; 6,112,172; 6,112,173; 6,112,174; 6,112,175; 6,112,176; 6,112,177; 6,112,178; 6,112,179; 6,112,180; 6,112,181; 6,112,182; 6,112,183; 6,112,184; 6,112,185; 6,112,186; 6,112,187; 6,112,188; 6,112,189; 6,112,190; 6,112,191; 6,112,192; 6,112,193; 6,112,194; 6,112,195; 6,112,196; 6,112,197; 6,112,198; 6,112,199; 6,112,200; 6,112,201; 6,112,202; 6,112,203; 6,112,204; 6,112,205; 6,112,206; 6,112,207; 6,112,208; 6,112,209; 6,112,210; 6,112,211; 6,112,212; 6,112,213; 6,112,214; 6,112,215; 6,112,216; 6,112,217; 6,112,218; 6,112,219; 6,112,220; 6,112,221; 6,112,222; 6,112,223; 6,112,224; 6,112,225; 6,112,226; 6,112,227; 6,112,228; 6,112,229; 6,112,230; 6,112,231; 6,112,232; 6,112,233; 6,112,234; 6,112,235; 6,112,236; 6,112,237; 6,112,238; 6,112,239; 6,112,240; 6,112,241; 6,112,242; 6,112,243; 6,112,244; 6,112,245; 6,112,246; 6,112,247; 6,112,248; 6,112,249; 6,112,250; 6,112,251; 6,112,252; 6,112,253; 6,112,254; 6,112,255; 6,112,256; 6,112,257; 6,112,258; 6,112,259; 6,112,260; 6,112,261; 6,112,262; 6,112,263; 6,112,264; 6,112,265; 6,112,266; 6,112,267; 6,112,268; 6,112,269; 6,112,270; 6,112,271; 6,112,272; 6,112,273; 6,112,274; 6,112,275; 6,112,276; 6,112,277; 6,112,278; 6,112,279; 6,112,280; 6,112,281; 6,112,282; 6,112,283; 6,112,284; 6,112,285; 6,112,286; 6,112,287; 6,112,288; 6,112,289; 6,112,290; 6,112,291; 6,112,292; 6,112,293; 6,112,294; 6,112,295; 6,112,296; 6,112,297; 6,112,298; 6,112,299; 6,112,300; 6,112,301; 6,112,302; 6,112,303; 6,112,304; 6,112,305; 6,112,306; 6,112,307; 6,112,308; 6,112,309; 6,112,310; 6,112,311; 6,112,312; 6,112,313; 6,112,314; 6,112,315; 6,112,316; 6,112,317; 6,112,318; 6,112,319; 6,112,320; 6,112,321; 6,112,322; 6,112,323; 6,112,324; 6,112,325; 6,112,326; 6,112,327; 6,112,328; 6,112,329; 6,112,330; 6,112,331; 6,112,332; 6,112,333; 6,112,334; 6,112,335; 6,112,336; 6,112,33