Tract Plan Check Criteria	Tract:	Job:
Cover Sheet		Date:
Must be on 24 x 36 size paper		Dutci
	Water District	
	provement Plans	
Tract		
Index map w/ lot #s, street names, tr		et number references
Vicinity map w/ N arrow, major streets		
Sheet index w/ street names and stati		
Legend w/ abbreviations, symbols and		
Current General Notes (04-21-08)		
Fire Department Notes		
Construction notes with quantities nee	eded for permit scope (LF pipe, v	valves, FH, Hot Taps, Services, etc.)
Construction notes should reference a	pplicable VWD std dwgs	
Construction note for blue dots at fire	hydrants	
Basis of bearing, Bench mark		
Dig Alert logo and info, Owner name a	and contact info	
Utility agencies contact info		
Verify scale block		
In Bottom Title Block:		
WTR - , ENG - , WP - listed if possible		
Tract number		
Sheet number and total sheets		
Design engineer contact info and PE s	eal	
Brian W. Gengler signature block (RCE		
VWD logo, obtain from City website	,	
Fire protection system approval (Fire I	Prevention Specialist)	
Revision block	,	
Plan and Profile		
Tract number and street name on bot	tom corner of event sheet	
Scale H: 1"= 40' or H:	•	
	1"= 2'	
Bar scale, North arrow	1 – 2	
Profile grid to be scanable (not solid b	llack)	
Plan and profile on same sheet and all	=	
Street Centerlines, names, stations an		
Tract boundary		
Dimension street and right-of-way		
Proposed street light locations for refe	erence	
Existing and proposed utilities shown		electric, etc.)
Show existing waterlines and denote v		, ,
All utility crossings shown on profile	,	
If possible, go over SD with 30" min o	over and DIP; otherwise, go und	der SD per W-37 or W-38.
If there is no storm drain shown on th	e plan, ask them to verify that t	here isn't one
Check the off-site storm drain for conf	flicts with existing waterlines or	ask them to check it
Use heaviest line weight for proposed	water facilities, others should be	e lighter
Dash or fade out existing facilities (N	lo grey)	
Check feasibility study for lines and size	zes that are required to be instal	II
Developments greater than 100 home		
Waterlines must be installed to the tra	•	ture connection
Stub waterlines 10' beyond pavement		
Curb lines and dimension from curb to		
Bearing and distance on waterline. La		Δ, and L
Specify material, diameter and length		
Use match lines for continued lines; sh		e
Identical points called out with leader	lines	
Show stations at bottom of profile		
Show existing and proposed finished of	- ·	
Max slope change at grade breaks is 4	1%, otherwise use fittings (case	by case)

Plan and Profile (Cont.)	
Minimum slope = 0.2% (0.002), Label slopes on profile	
Verify stationing for items on plan matches profile (FHs, Air Vacs, etc.)	
Call out grade breaks, Grade breaks cannot be placed at fittings	
Show property lines for lots	
Verify that services don't interfere w/ driveway approaches	
Place air vac valves at high points	
Call out all fittings	
Callout easements for water facilities ("20-foot wide easement dedicated to VWD")	
Show all or applicable construction notes	
Location and Clearance	
Verify that all existing pipelines are shown and are correct (check AutoCAD Atlas)	
36" min cover on 8" lines from top of pipe to top of pavement	
42" min cover on 12" and larger lines	
o within reason, keep cover not more than 2-3 feet below minimum	
If min cover can not be met, consider using ductile iron pipe w/ 30" cover (case by case)	
If it involves an existing line (PVC, DIP, AC) and cover can't be met check with Frank	
10' horizontal separation between water and sewer mains and manholes and storm drains	
4" vertical separation between water and sewer laterals when sewer is below  Standard water main location = 6' from curb, Use 7' in case of Cross Gutter Interference	
Light poles require 3' clearance from meter box/valves	
Maintain 5' min between F.H. and exposed obstruction (air vac, street light, etc.)	
Material & Sizing	
Water main: 8" Min 8" to 12": PVC C900, Class 305	
14" to 48: PVC C905, Class 305 All Sizes: DIP, Class 250/350 Asphalt Coated	
Minimum PVC pipe bending radius = 300 times the pipe diameter	
Gate Valve for 8" lines	
Butterfly Valve for 12" line or larger (except hot taps- always use tapping gate valves)	
Valves must be flanged directly to tee or other fitting, no in-line valves	
Valves must be flanged directly to tee or other fitting, no in-line valves	
Restrained Joints	
Restrained joints required, thrust blocks permitted by special permission only	
Restrain fittings and adjacent pipe as required. Restrain dead ends. 10' Min. each side of Hydra	nt
Restrain all joints in curves less than 380' radius	110
Restrain SD under-crossings per W-37 or W-38	
If they don't use our minimum RJ lengths, they must submit calcs to use less	
Fire Hydrants 300 ft spacing preferred for FH (allowable range: 250 to 350 ft)	
600 ft spacing preferred for FTY (allowable range: 250 to 550 ft)	
Place F.H. on lot lines or 4' off end of curve radius	
Blow-off hydrant required at <u>ultimate</u> low points only on 16" and larger lines (case by case, 4" a	nd larger)
Blow-off hydrants at storm drain inverts (case by case)	ina lai gei j
Tie-Ins and Phase Breaks	
Place valves and hydrants at phase breaks where services are affected (case by case)	
NO TEMPORARY FHS	
If no services affected, use end cap w/ temporary blow-off	
Install test plates at connections to old pipes and valves (test plates must be called out)	
Standard Drawings	
Include all current & applicable VWD standard drawings on the last sheet	
Tanada di carrene a applicable vivo diandara diaviligo di tile last silect	