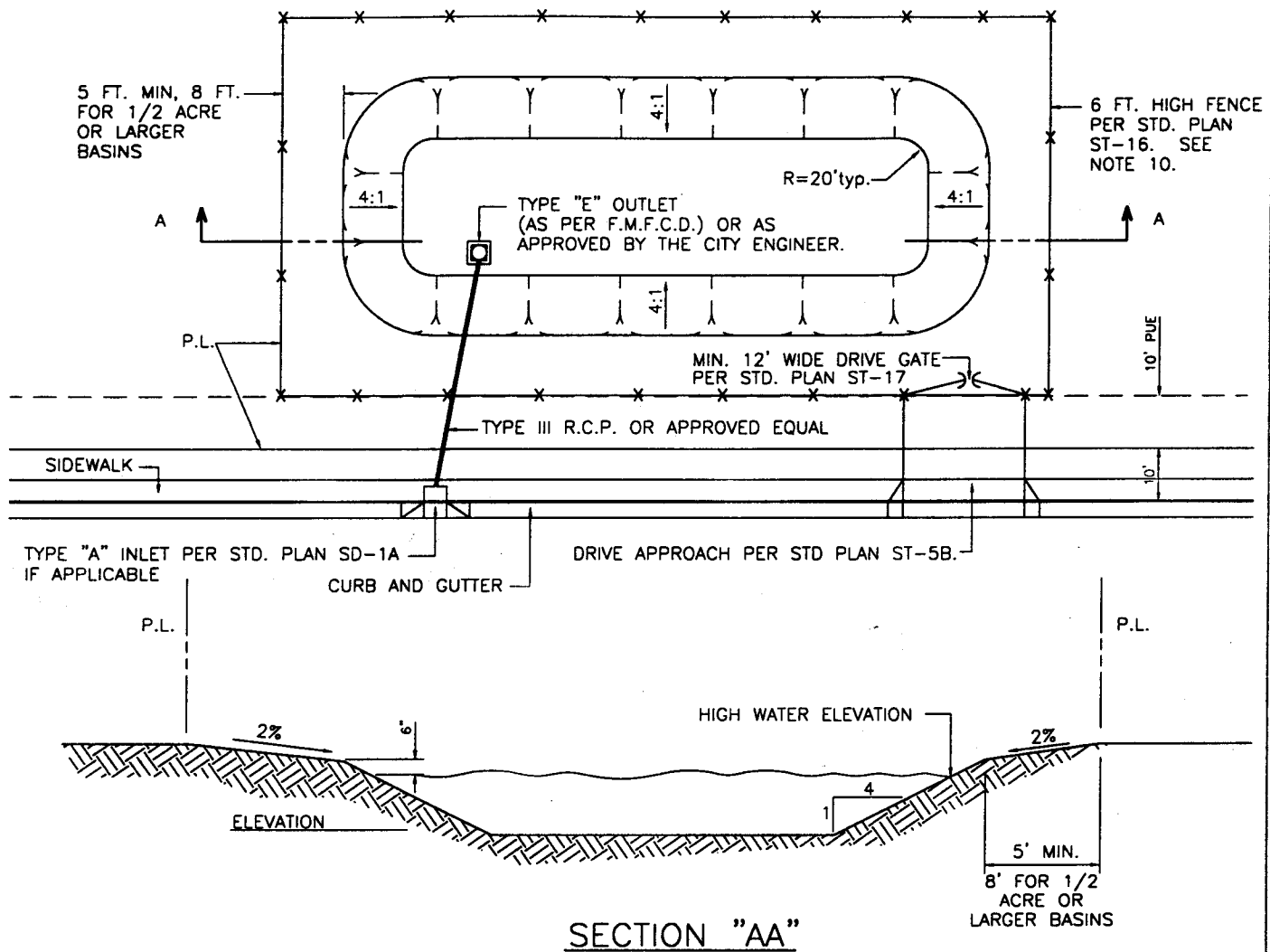


CITY OF REEDLEY
RECOMMENDED DESIGN STANDARDS
FOR
TEMPORARY DRAINAGE BASINS SERVING NEW DEVELOPMENTS

The master planned storm drainage facilities necessary to provide the adopted design level drainage protection may not be feasible to construct as development occurs. Therefore, on site, temporary storm drainage basins may be required until such time as the master planned facilities become available. In that the basins are a temporary facility, a reduction in the level of drainage protection provided by basin storage, over that provided by the master planned drainage system design, should be considered due to the excessive cost for each development to provide full size basin facilities. It is recommended that any temporary basins be designed to store the rainfall accumulation from a 100 year return frequency storm occurring over a 48 hour period. This amounts to a rainfall of 0.28 feet with a resulting storage volume requirement of 0.28 feet times the effective tributary drainage area ($0.28 \times CA$).

It is recommended that the basin be sized to handle the required storage volume without exceeding an excavation depth of 12 feet. Adequate area at the floor of the basin should be provided for maneuvering maintenance equipment. Landscaping of the basin need not be necessary if screened fencing is provided; however, landscaping treatment between the fence and the street may be desired. A minimum five foot level area should be provided between the fence and the top of cut for the basin. Side slope ratios of the basin should not exceed a ratio of 3 horizontal to 1 vertical. If side slopes are steeper than a 4 to 1 ratio, an access ramp should be provided, leading from the top to the floor of the basin along one of the basin side slopes, with a grade of 6 to 1 or flatter. A minimum 12 foot wide drive gate and driveway should be provided along the street frontage side of the basin.



NOTES: DESIGN MINIMUMS

1. OVERFLOW MUST BE TO THE STREET, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. DESIGN WATER SURFACE ELEVATION SHALL SIX (6") INCHES BELOW THE LOWEST INLET FLOW LINE OR POND PERIPHERAL ELEVATION, WHICHEVER IS LOWER.
3. REQUIRED CAPACITY: $V = C I A$ WHERE,
 - V = REQUIRED BASIN CAPACITY IN CUBIC FEET
 - C = RUNOFF COEFFICIENT
 - I = RAINFALL FROM A DESIGN STORM (0.28" / 5YR.- 10 DAY STORM MIN.)
 - A = TRIBUTARY AREA IN SQUARE FEET.
4. PROVIDE COMPOSITE "c" CALCULATIONS.
5. EIGHT (8') FOOT WIDE VEHICLE RAMP WITH A MAX. SLOPE OF 15% REQUIRED IN 1/2 ACRE OR LARGER BASINS.
6. TEMPORARY PONDING BASINS SHALL BE FENCED WITHIN SEVEN (7) DAYS TIME AFTER THEY BECOME OPERATIONAL.
7. BASIN SHALL BE SIZED TO HANDLE THE REQUIRED STORAGE VOLUME WITHOUT EXCEEDING AN EXCAVATION DEPTH OF TWELVE (12') FEET.
8. ADEQUATE AREA AT THE FLOOR OF THE BASIN SHALL BE PROVIDED FOR MANEUVERING MAINTENANCE EQUIPMENT.
9. LANDSCAPING OF THE BASIN NEED NOT BE NECESSARY IF SCREENED FENCING IS PROVIDED; HOWEVER, LANDSCAPING TREATMENT BETWEEN THE FENCE AND THE STREET MAY BE REQUIRED.
10. FENCING IS NOT REQUIRED ON BASINS WHERE THE MAXIMUM POSSIBLE WATER DEPTH DOES NOT EXCEED 18" AND THE SIDE SLOPES ARE 6 TO 1 OR FLATTER.
11. A SOIL BORING LOG TO A DEPTH OF NOT LESS THAN 30 FEET SHALL BE SUBMITTED TO THE CITY ENGINEER.

NOT TO SCALE

<p>TEMPORARY PONDING BASIN</p>	<p><i>Andrew J. Benelli</i> CITY ENGINEER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p>	<p>02-24-04 PLAN APPROVAL DATE</p>
	<p>REVISIONS: JAN 2004</p>	<p>CITY OF REEDLEY</p>

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