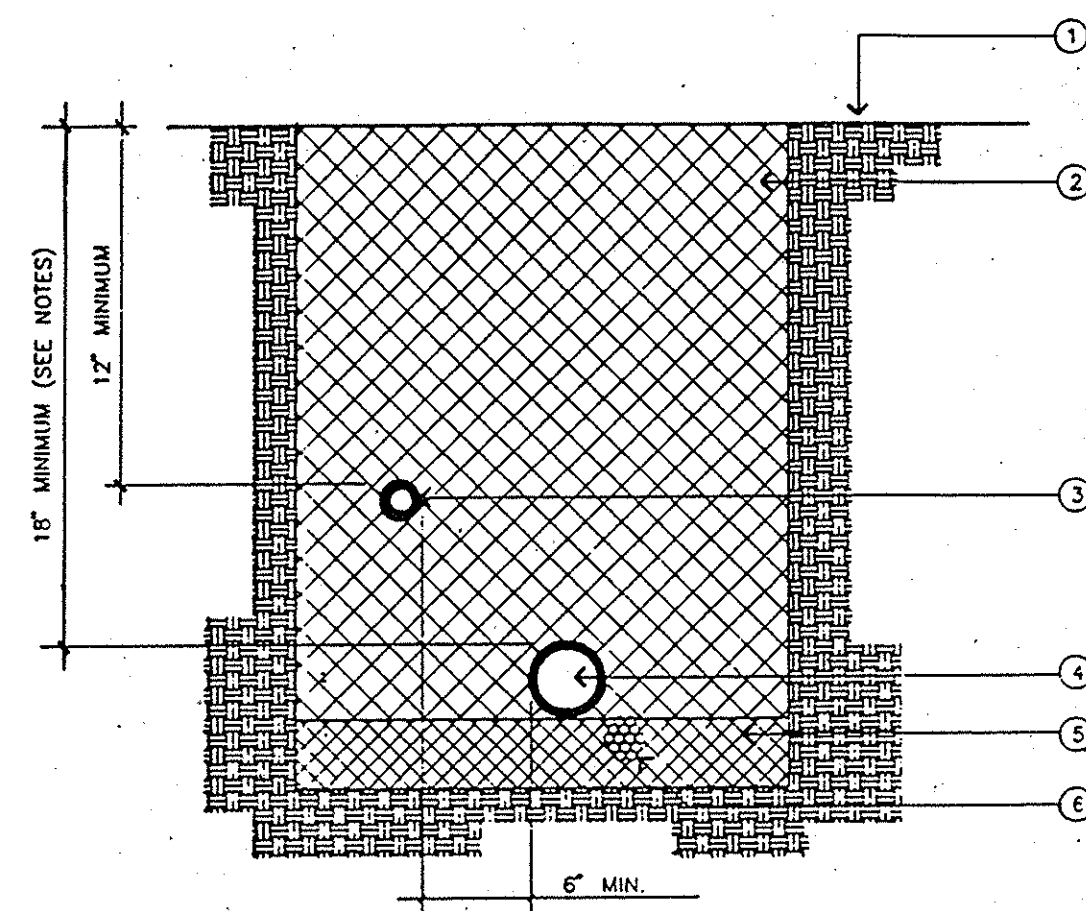




- 1 FINISH GRADE
2 CLEAN BACKFILL - SEE SPECS. FOR MATERIAL, 90% COMPACTION REQUIRED
3 NON-PRESSURE LATERAL LINE
4 PRESSURE SUPPLY LINE
5 PROVIDE 2" OF CLEAN BACKFILL
6 CONTROL WIRES - BUNDLE AND TAPE AT 15' O.C. AND INSTALL BELOW
PRESSURE SUPPLY LINE

NOTES:

- PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION
- SPLICING OF WIRE RUN PER CITY SPECIFICATIONS ONLY
- 36" MIN. COVER FOR RECLAIMED WATER MAINLINE



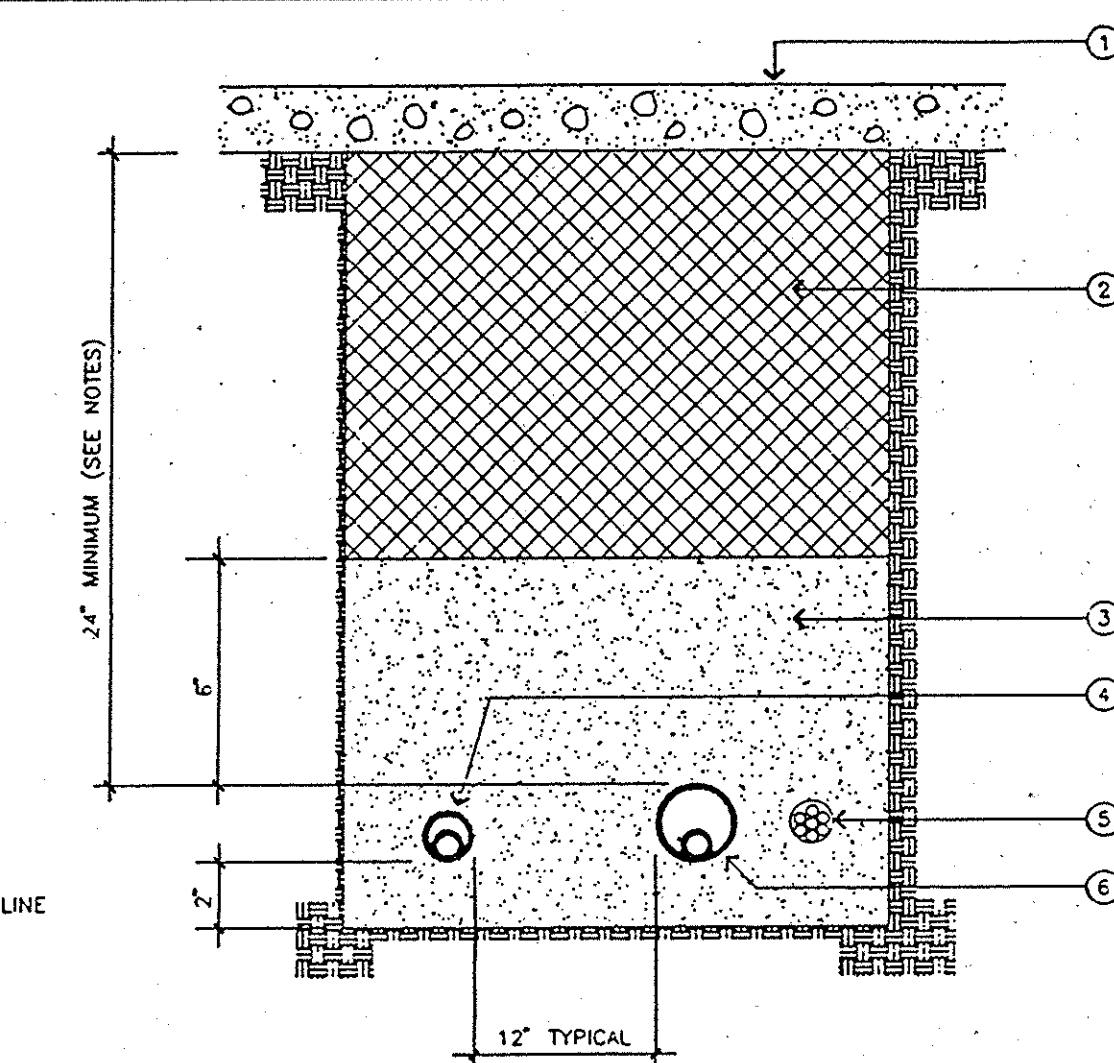
7 TRENCHING DETAIL
N.T.S.



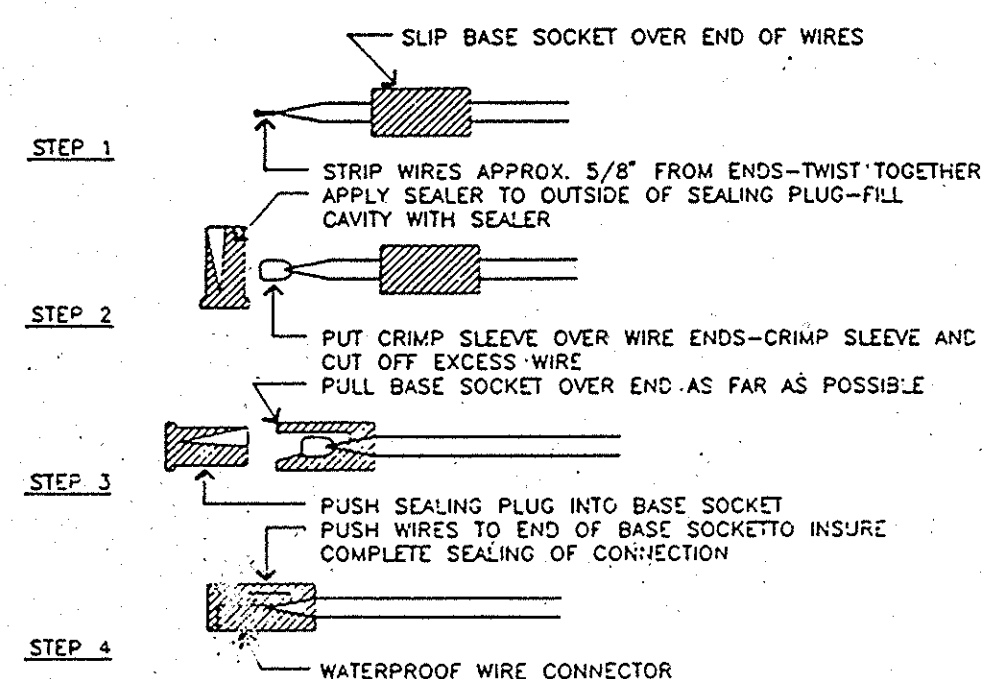
- 1 HARDSCAPING
- 2 CLEAN BACKFILL - SEE SPECS. FOR MATERIAL, 90% COMPACTION REQUIRED
- 3 SAND
- 4 NON-PRESSURE LATERAL LINE SLEEVE SIZE TWICE DIAMETER OF NON-PRESSURE LATERAL LINE
- 5 CONTROL WIRE SLEEVE - SIZE PER PLAN, INSTALL ADJACENT TO PRESSURE SUPPLY LINE
- 6 PRESSURE SUPPLY LINE SLEEVE - SIZE TWICE DIAMETER OF PRESSURE SUPPLY LINE

NOTES:

- ALL SLEEVES TO BE SCH. 40 PVC.
- EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPE AT BOTH ENDS
- RECLAIMED WATER SLEEVING TO BE 42"-48" DEPTH MINIMUM



8 SLEEVING DETAIL



9 WIRE CONNECTOR
N.T.S.



- 1 JUMBO CONCRETE VALVE BOX AND CAST IRON COVER (OR PVC VALVE BOX)
2 SHALL BE MARKED "RCV" WITH STATION NUMBERS FOR CONTROL VALVES PAINTED IN
3 WHITE LETTERS ON VALVE COVER
4 2 SPRINKLER OR IRRIGATION LINE PIPE TO SPECIFIED DEPTH WITH 45 DEGREE ELLS
5 SCH 40 PVC MALE ADAPTOR
6 SCH 80 PVC CLOSE NIPPLE
7 SCH. 80 PVC CLOSE NIPPLE
8 WATER PROOF CONNECTORS
9 ELECTRIC CONTROL VALVE
10 FINISH GRADE
11 PUGH TAIL EXPANSION LOOP (MIN. 24" LONG)
12 ANGLE VALVE
13 SCH. 80 PVC CLOSE NIPPLE
14 WASHED CRUSHED AGGREGATE
15 SCH 80 PVC NIPPLE
16 CONTROL & COMMON WIRES
17 PRESSURE SUPPLY LINE
18 SCH 40 PVC 5X5X3 TEE
- NOTES
- INSTALL
 - INSTALL
 - PLACE VAL
 - PLACE AGG
 - ATTACH W
 - TO CONTN
 - ONE VALVE
 - PLASTIC

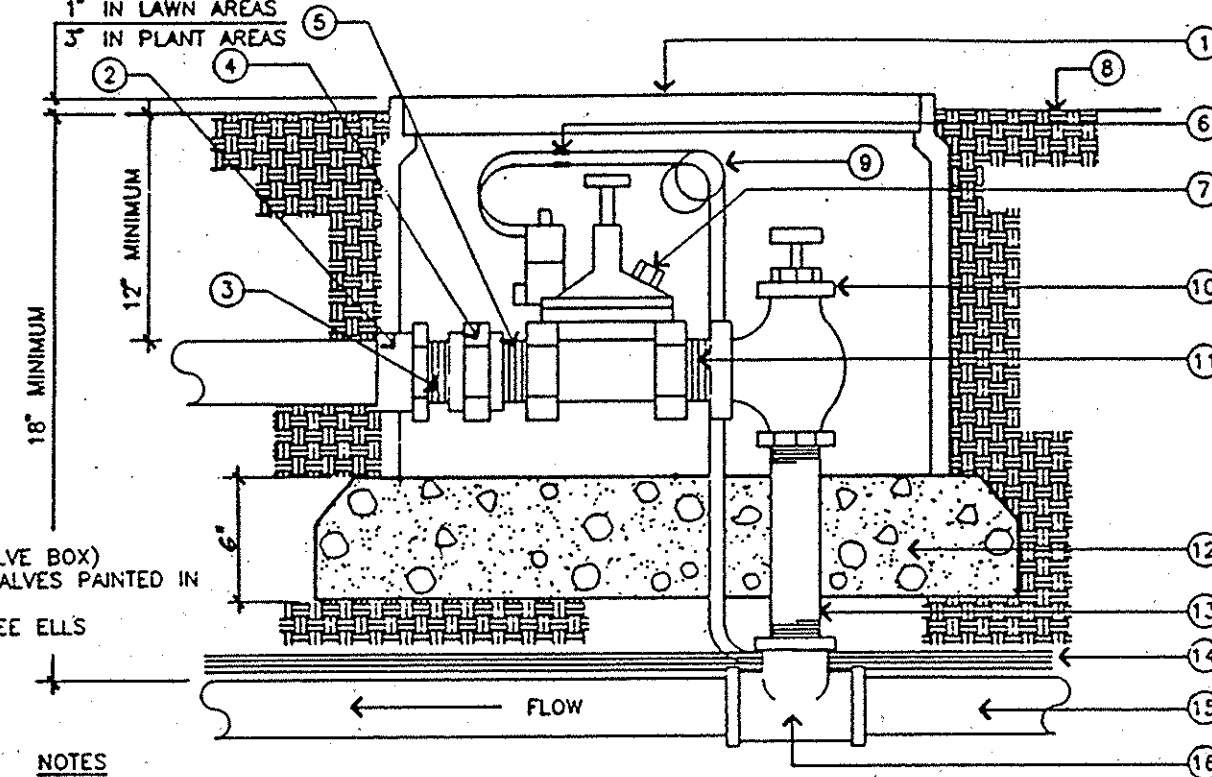
4 REMOTE CONTROL VALVE ~~VALVES IN MEDIAN ONLY~~ Δ
N.T.S.



- 1 STRUCTURE OR HARDSCAPE
- 2 CONCRETE VALVE BOX & COVER
- 3 FIVE (5) GRASS
- 4 QUICK COUPLING VALVE
- 5 STAINLESS STEEL SCREW, CLAMP MIN. (3) PLACES
- 6 3/4" WASHED CRUSHED AGGREGATE BASE
- 7 BRASS NIPPLE
- 8 BRASS NIPPLE -- 6" LONG
- 9 BRASS 90 DEGREE ELL
- 10 BRASS 90 DEGREE STREET ELL
- 11 BRASS 90 DEGREE STREET ELL
- 12 PRESSURE SUPPLY LINE FITTING
- 13 PRESSURE SUPPLY LINE
- 14 #4 REBAR STAKE (24" LONG)

NOTES

- PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX
- INSTALL Q.C.V. & BOX IN PLANTERS WHEN EVER POSSIBLE, NOT IN TURF AREAS



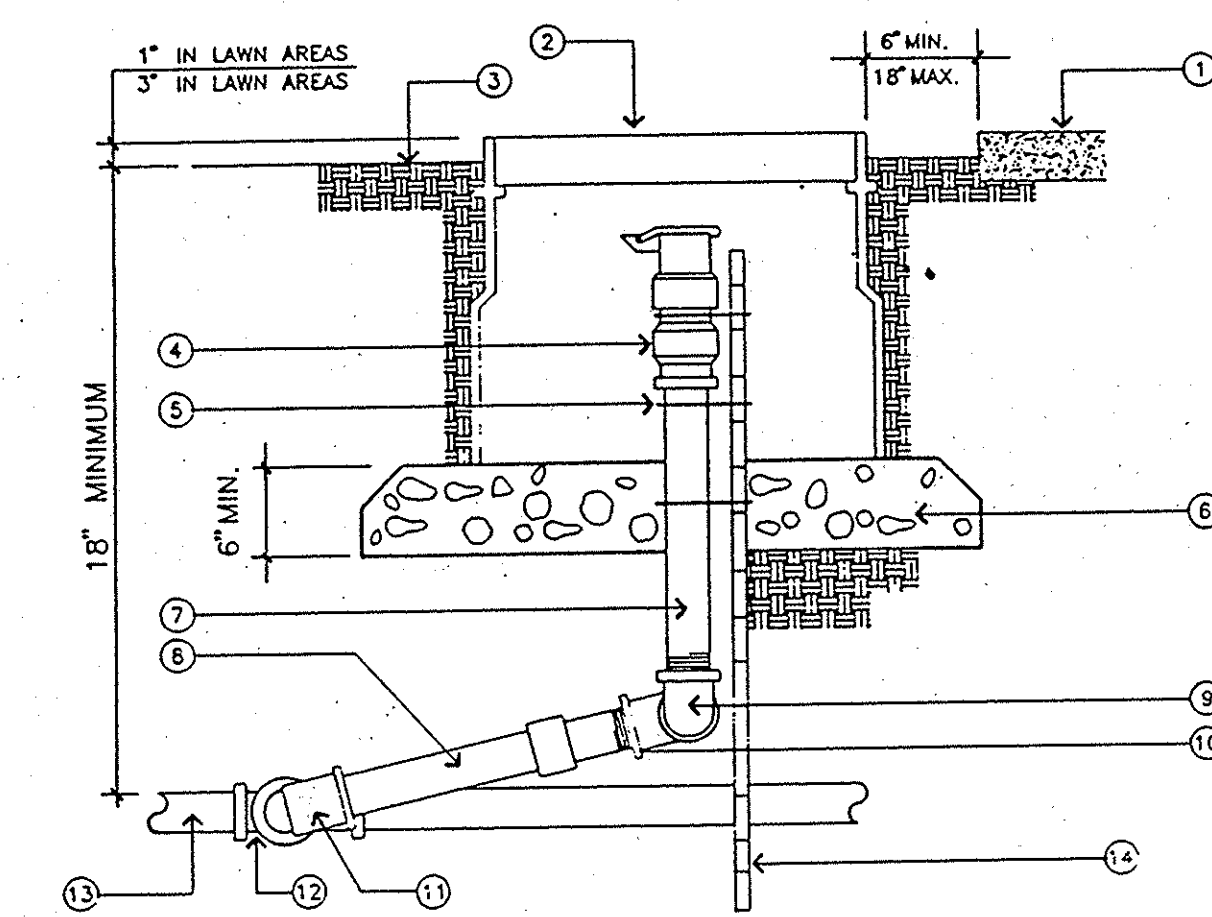
5 QUICK COUPLING VALVE
N.T.S.



- 1 ROUND CONC. VALVE BOX & COVER
COVER SHALL BE MARKED "RCV" WITH STATION
NUMBERS FOR CONTROL VALVES PAINTED IN 1 1/2"
WHITE LETTERS ON VALVE COVER BY CONTRACTOR
- 2 FINISH GRADE
- 3 BRASS GATE VALVE WITH BRONZE HAND WHEEL
- 4 3/4" WASHED CRUSHED AGGREGATE BASE
- 5 SCH 40 PVC MALE ADAPTORS

NOTE

- PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX



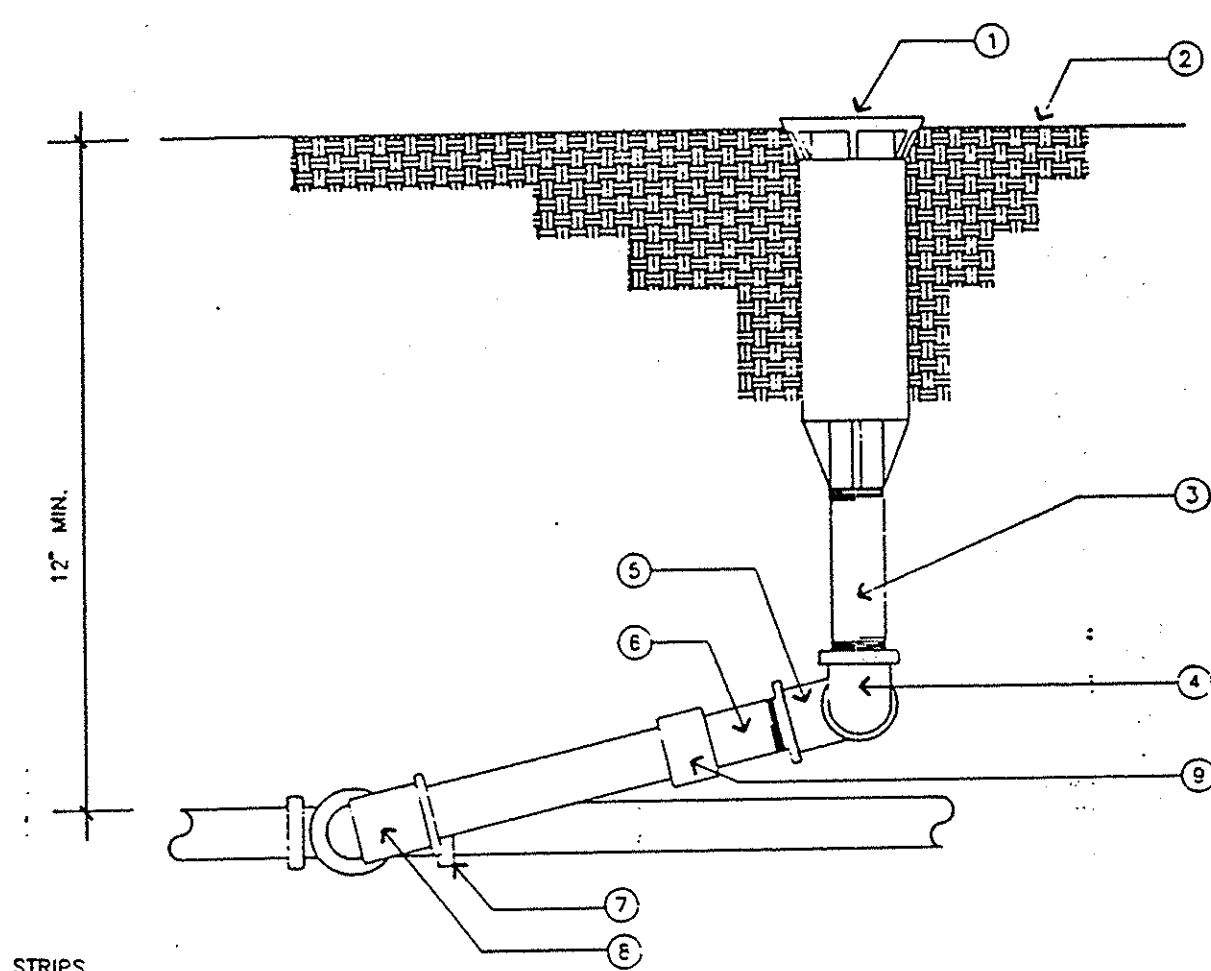
6 GATE VALVE
N.T.S.



- CLOSING
1. POF-UP HEAD
 2. FINISH GRADE
 3. SCH 80 PVC NIPPLE LENGTH AS NECESSARY
 4. SCH 40 PVC T x T 90 DEGREE ELL
 5. MARLEX 90 DEGREE STREET ELL
 6. SCH 80 PVC NIPPLE (6" LONG)
 7. NON-PRESSURE LATERAL LINE & TEE FITTING
 8. MARLEX 90 DEGREE ELL
 9. ANTI-DRAIN VALVE-ALL DOWN SLOPE HEADS-
IF NOT RETROFITTED IN HEADS

NOTE:

- LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPING, MOW STRIPS
- LOCATE HEAD 6" FROM ALL STRUCTURES.
- USE TEFLON TAPE ON ALL MALE THREADS.



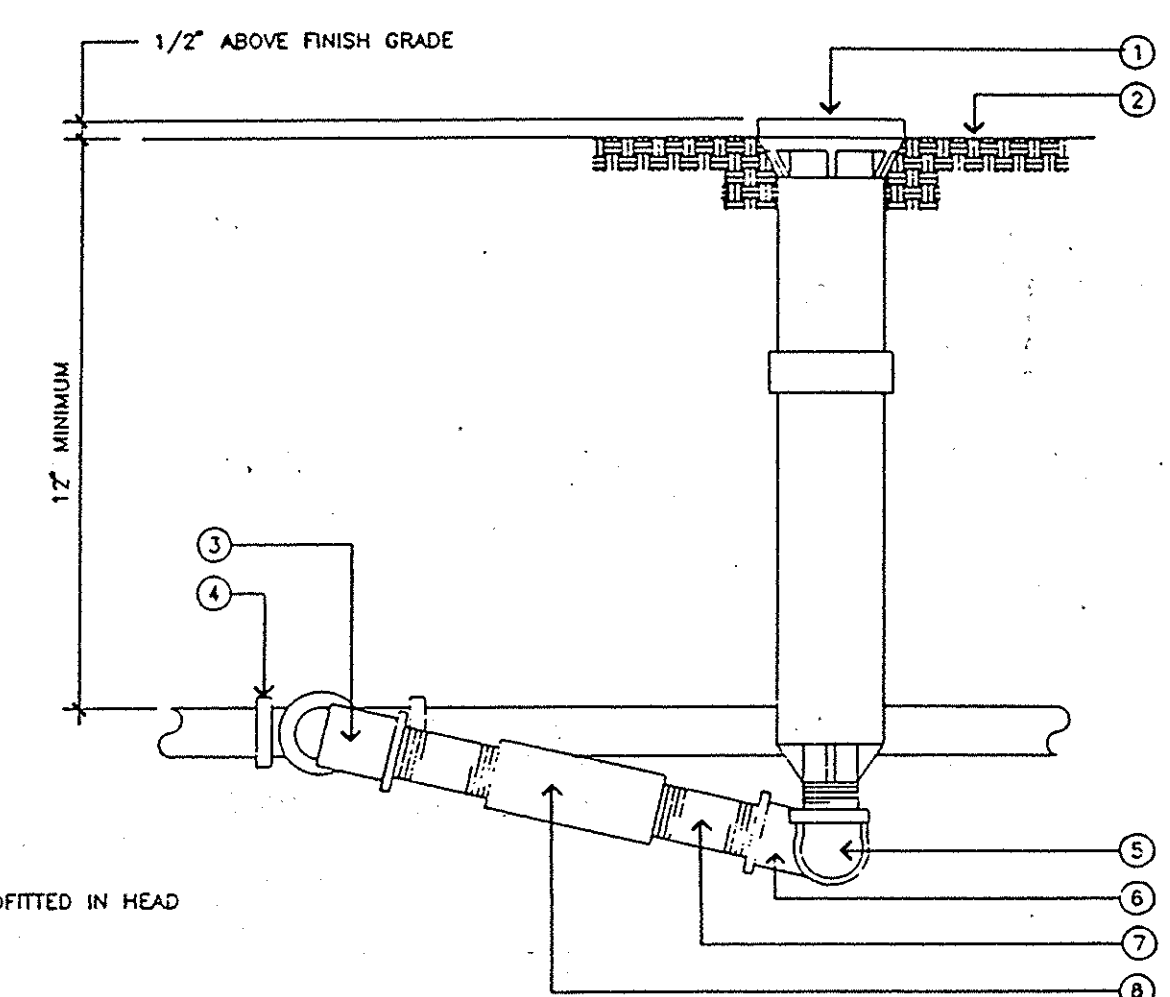
1 4" POP-UP SPRAY HEAD
N.T.S.



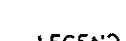
- 1 HI-POP SHRUB HEAD
2 FINISH GRADE
3 MARLEX 90 DEGREE STREET ELL
4 NON PRESSURE LATERAL LINE TEE FITTING
5 SCH 40 PVC 90 DEGREE STREET ELL
6 MARLEX 90 DEGREE STREET ELL
7 SCH 80 PVC NIPPLE - TYPICAL (2) PLACES
8 ANTI-DRAIN VALVE-ALL DOWN SLOPE HEADS IF NOT RETROFITTED IN HEAD

NOTES:

- LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPEING, MOW STRIPS, HEADER BOARDS, AND EDGES OF LAWNS
- LOCATE STREAM SPRAYS 6" FROM ALL STRUCTURES, AND SPRAY HEADS 12" FROM ALL STRUCTURES IN SHRUB AREAS BUT 6" FROM ALL STRUCTURES IN GROUND COVER AREAS
- USE TEFLON TAPE ON ALL MALE THREADS



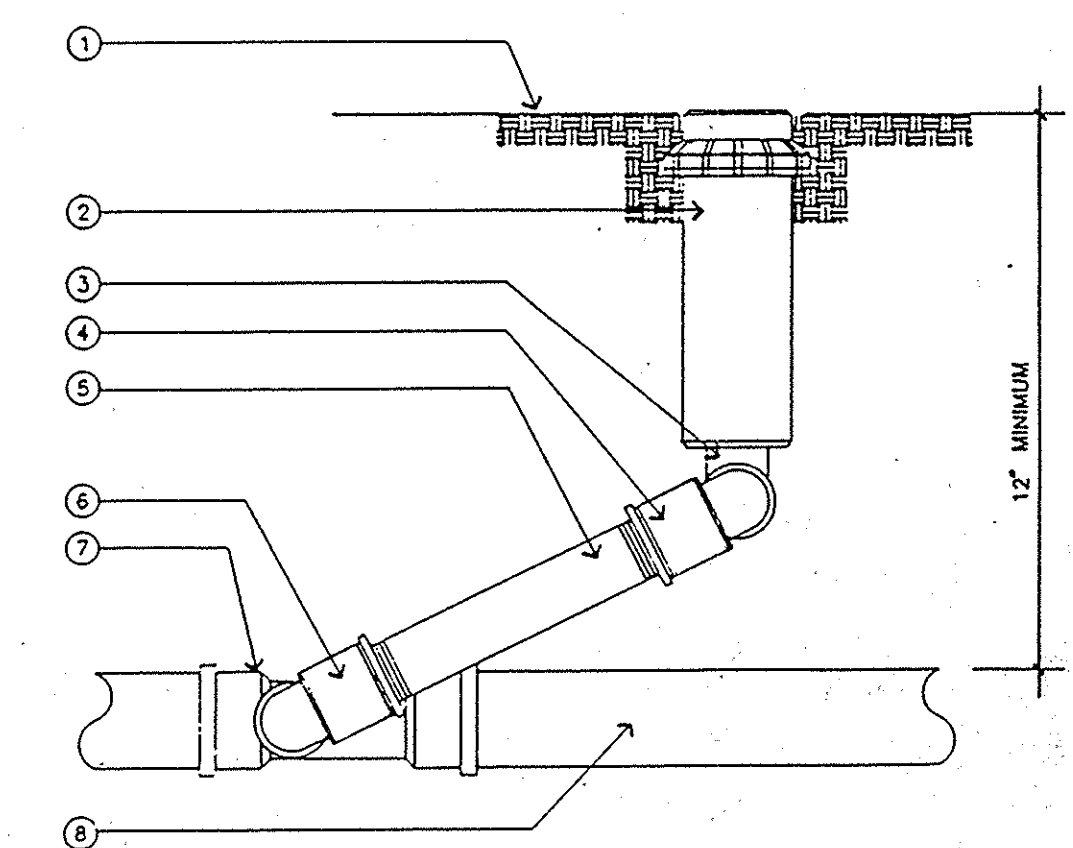
2 12" POP-UP SPRAY HEAD
N.T.S.



- LEGEND**
- 1 FINISH GRADE
2 POP-UP GEARED ROTOR W/INTERNAL ANTI-DRAIN VALVES
3 3/4" SCH. 40 PVC 90 DEGREE STREET ELL
4 3/4" MARLEX 90 DEGREE STREET ELL
5 3/4" SCH. 80 NIPPLE (LENGTH AS REQUIRED)
6 3/4" MARLEX 90 DEGREE STREET ELL
7 PVC TEE
8 NON-PRESSURE LATERAL

NOTE:

- NOTE:
- USE 12" HIGH-POPS IN SHRUB AREAS
 - ALIGN HEADS PERPENDICULAR WITH ANGLE OF SLOPE
 - ADD ANTI-DRAIN VALVES ON 3/4" NIPPLE ON DOWN SLOPE ROTORS IF NOT FITTED IN HEAD BY MFG



3 12" POP-UP ROTOR HEAD
N.T.S.

REVISIONS						REFERENCES					
NUMBER	DATE	INITIALS	DESCRIPTIONS	APPRVD	NUMBER	DATE	INITIALS	DESCRIPTIONS	APPRVD	PREPARED UNDER THE SUPERVISION OF <i>[Signature]</i>	DATE 2/19/73
A	10-5-72	GLB	IRRIGATION OF EAST SIDE N/O WARNER W/A SEPARATE CONTROLLER WATER SUPPLY BY CITY OF SANTA ANA							DESIGNED F.M.A.	2/19/73
										DRAWN F.M.A.	
										R/W APPROVED	
										CHECKED E.D.	
										RECOMMENDED <i>[Signature]</i>	2/22/73
										APPROVED	
										<i>[Signature]</i>	2/23/73
										CITY ENGINEER	
										R.C.E. NO. 25561	

HARBOR BLVD. IMPROVEMENTS

IRRIGATION

DETAIL SHEET

PUBLIC WORKS AGENCY
CITY OF SANTA ANA

SHEET 44 OF 60