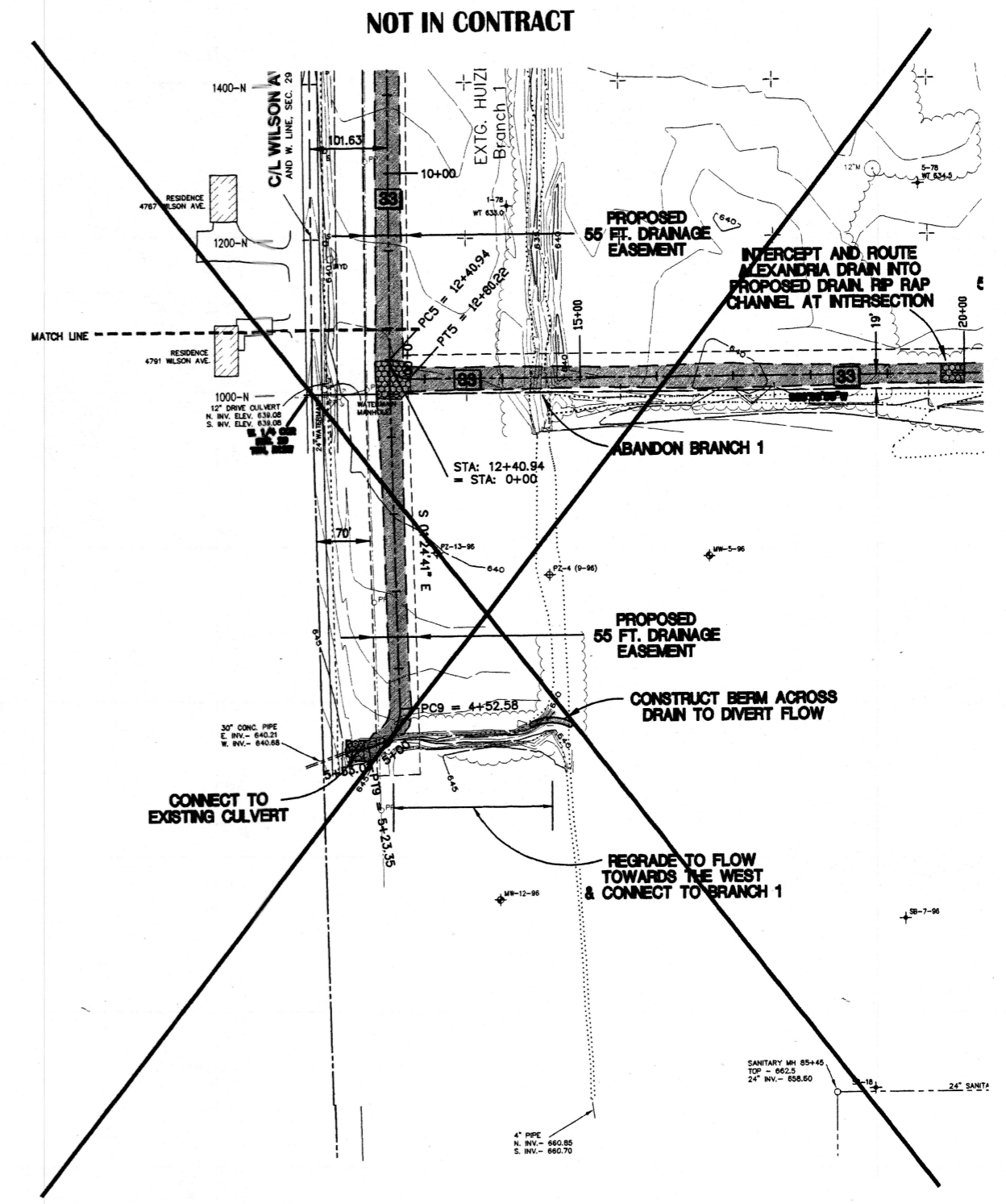
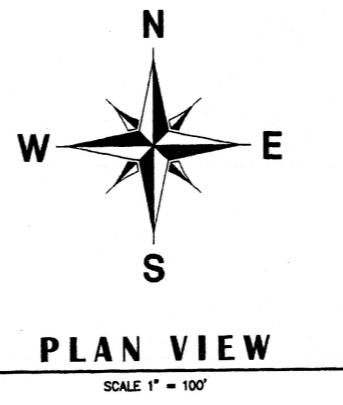
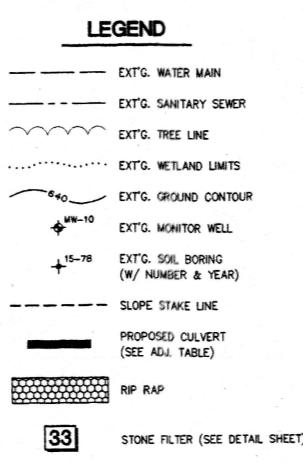


PROPOSED CULVERT TABLE

CULVERT NUMBER	LOCATION	TYPE	SIZE	LENGTH (Feet)	OUTLET INV. ELEV.	CULVERT SLOPE
1	HUIZENG DR. BRANCH 2 STA. 10+63 TO 11+20	CONCRETE BOX W/ END SECTIONS	7' x 5'	117'	629.71	0.12%
2	HUIZENG DR. BRANCH 2 STA. 28+63 TO 30+03	CONCRETE BOX W/ END SECTIONS	7' x 5'	150'	632.00	0.12%
3	HUIZENG DR. MAIN BRANCH STA. 41+15 TO 41+85	CONCRETE BOX W/ END SECTIONS	6' x 4'	70'	634.23	0.23%
4	HUIZENG DR. BRANCH 1 STA. 44+97 TO 6+47	CONCRETE BOX W/ END SECTIONS	10' x 5'	150'	630.34	0.41%
5	HUIZENG DR. BRANCH 2 STA. 0+33 TO 1+58	CONCRETE BOX W/ END SECTIONS	TWIN 8' x 4'	125'	629.40	0.16%

* INVERT ELEVATIONS ON THE BOX CULVERTS ARE 1 FT. BELOW DETAIL BOTTOM TO CREATE A NATURAL DITCH BOTTOM THROUGH CULVERT.



DRAIN CONSTRUCTION NOTES

1. MAINTAIN FLOW IN EXISTING DRAINS UNTIL NEW DRAINS ARE FULLY CONSTRUCTED AND STABILIZED WITH TEMPORARY EROSION CONTROL MEASURES. STRIP TOPSOIL AND INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES PRIOR TO STARTING EXCAVATION.
2. NEW DRAIN SECTIONS MAY BE CONNECTED TO EXISTING DRAINS TO ALLOW PROPER DRAINAGE AND DRAINAGE DURING CONSTRUCTION.
3. CLEAR DRAIN EASEMENT OF ALL TREES, BRUSH, AND DEBRIS. PROTECT OFF-SITE TREES. TREE LIMITS INDICATED ON THE PLAN ARE INTENDED MAJOR GROUPINGS OF TREES. INDIVIDUAL OR SMALLER GROUPS OF TREES OR BRUSH MAY ALSO REQUIRE REMOVAL.
4. PLACE SPOIL MATERIAL ON THE "LAND" SIDE OF THE DRAIN. ALL CLEAN FILL MATERIAL SHALL REMAIN ON THE SITE. ALL UNSUITABLE FILL MATERIAL OR ORGANIC DEBRIS SHALL BE REMOVED FROM THE SITE.
5. CONTRACTOR SHALL SUBMIT AND COMPLY WITH ALL TERMS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE NEXT COUNTY ROAD COMMISSION.
6. REMOVAL OF SEDIMENT AND DEBRIS FROM ALL EXISTING DRAINS AND BACKFILLING WITH ENGINEERED FILL IS CRITICAL, AND SHALL STRICTLY FOLLOW THE PROCEDURES LISTED IN THE SPECIFICATIONS.
7. RECONSTRUCT SANITARY MANHOLES ALONG RIVERTOWN PARKWAY AS SHOWN ON THE PLANS. REMOVE AND REPLACE MANHOLE BARRIERS SECTIONS AS NECESSARY TO ADJUST RIM ELEVATION. REPLACE ALL CASTINGS AND COVERS WITH E.I.W. 1120-PT. PRESSURE TIGHT COVER.
8. DOWNGRADE MAY BE NECESSARY TO COMPLETE THE INSTALLATION OF THE NEW DRAIN AND CULVERTS. REFER TO THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

NEW DRAIN CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
1	50.00'	76.19'	47.71'	69.03'	N 46°27'09" E	87°18'41"
2	300.00'	450.78'	280.21'	409.56'	N 45°50'34" E	86°05'35"
3	50.00'	80.86'	52.17'	72.20'	S 47°21'03" E	92°28'59"
4	25.00'	37.04'	22.87'	33.75'	S 45°00'20" E	90°00'39"
5	25.00'	39.27'	25.00'	35.36'	S 45°00'20" E	90°00'39"
6	25.00'	10.08'	5.11'	10.01'	N 78°26'05" E	23°06'31"
7	25.00'	39.78'	25.51'	35.71'	N 44°24'55" E	91°09'29"
8	25.00'	33.33'	19.67'	30.92'	N 37°01'48" E	76°23'15"
9	50.00'	70.77'	42.78'	65.01'	S 39°08'13" W	81°05'48"