



## Example Letter 1R

January 7, 1991

Public Utilities  
U90 Permit Place SW  
Power Pole, WA 98333

SR 101 XL-0384  
Timber Co. Rd. to N. River Rd.  
Resurfacing

Dear Public Utility:

The Department of Transportation has a resurfacing project scheduled for SR 101 between MP 70.09 and MP 74.15. Our records indicate that your utility may have Location I and Location II utility objects within our project limits.

Please indicate your course of action for adjusting these objects by checking the following applicable item, signing in the space provided and returning this letter.

- No Location I/Location II objects on this project.
- Will adjust Location I/Location II objects in conjunction with the DOT project.
- Will add the Location I/Location II objects to the utility Annual Mitigation Target Systematic Studies.

Individual Location I objects within the project limits should be reviewed to determine if any demonstrate a need for adjustment. Please check the following applicable item.

- No Location I objects need adjustment.
- Location I objects will be adjusted at the following locations:

MP \_\_\_\_\_

MP \_\_\_\_\_

Please contact \_\_\_\_\_ at 357-2657 for any questions.

Sincerely,

R.L. ANDERSON

\_\_\_\_\_  
Public Utility Engineer

\_\_\_\_\_  
Date

## Example Letter 2R

January 7, 1991

Public Utilities  
U90 Permit Place SW  
Power Pole, WA 98333

SR 101 XL-0393  
Elwha R. Br. to SR 112  
Utility Locations

Dear Public Utility:

The Department of Transportation has a Resurfacing/Restoration (2R) project scheduled on SR 101 between Elwha River and SR 112.

Our records indicate that you have facilities within the limits of this project. To enable us to accommodate your facilities within our project please mark the location of your facilities on the attached prints as follows.

1. Existing facilities located on state and/or public right of way in red.
2. Existing facilities located on utility and/or private easement or right of way in orange.
3. Show and label all appurtenances. Label the type and size of facility. Give depths and heights of buried and aerial facilities.

A complete and prompt return of the marked project prints would be appreciated.

Compliance with the Department Control Zone Policy is required on this (2R) project. Therefore, all Location I above-ground utility objects and selected Location II objects must be identified and adjusted in conjunction with the construction of our project. During our project design, the objects requiring adjustment will be identified on the Utility Object Relocation Record. A copy will be sent to you with the request for relocation.

Existing buried facilities which will be under the existing or new roadway/structures may remain in place provided they meet the following criteria:

1. The facility is of sufficient strength to support all loads imposed.
2. Improvements such as side taps are constructed to preclude any future need to excavate the roadway to reach the facility
3. You agree in the event of failure that the line will be shutdown and a bypass constructed around the affected area.

## **Example Letter 2R**

Public Utility  
January 7, 1991  
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4. All future new construction will be outside of roadway section.
5. Facilities that are in a state of disrepair or past their service life expectancy shall be replaced outside the roadway section.

If you agree to these five (5) conditions for leaving your facility in place, please so advise by your return letter.

Please call \_\_\_\_\_ at (206) 357-2657 for any questions.

Sincerely,

R.L. ANDERSON

## Example Letter 3R

January 7, 1991

Public Utilities  
U90 Permit Place SW  
Power Pole, WA 98333

SR 7 XL-0374  
SR 702 to 296th ST. E.  
Utility Locations

Dear Public Utility:

The Department of Transportation has a Resurfacing/Restoration/ Rehabilitation (3R) project scheduled on SR 7 between SR 702 and 296th Street East

Our records indicate that you have facilities within the limits of this project. To enable us to accommodate your facilities within our project please mark the location of your facilities on the attached prints as follows.

1. Existing facilities located on state and/or public right of way in red.
2. Existing facilities located on utility and/or private easement or right of way in orange.
3. Show and label all appurtenances. Label the type and size of facility. Give depths and heights of buried and aerial facilities.

A complete and prompt return of the marked prints would be appreciated.

Compliance with the Department Control Zone Policy is required on this (3R) project. Therefore, all Location I and Location II above-ground utility objects must be identified and adjusted in conjunction with our project. During our project design, Location I and Location II objects requiring adjustment will be identified on the Utility Object Relocation Record. A copy will be sent to you with the request for relocation.

Existing buried facilities which will be under the existing or new roadway/structures may remain in place provided they meet the following criteria:

1. The facility is of sufficient strength to support all loads imposed.
2. Improvements such as side taps are constructed to preclude any future need to excavate the roadway to reach the facility
3. You agree in the event of failure that the line will be shutdown and a bypass constructed around the affected area.

## **Example Letter 3R**

Public Utility  
January 7, 1991  
Page 2

4. All future new construction will be outside of roadway section.
5. Facilities that are in a state of disrepair or past their service life expectancy shall be replaced outside the roadway section.

If you agree to these five (5) conditions for leaving your facility in place, please so advise by your return letter.

Please call \_\_\_\_\_ at (206) 357-2657 for any questions.

Sincerely,

R.L. ANDERSON

January 7, 1991

Public Utilities  
U90 Permit Place SW  
Power Pole, WA 98333

SR 101 XL-0393  
Elwha R. Br. to SR 112 (2R)  
or  
SR 702 to 296th St. E. (3R)  
Utility Relocation

Dear Public Utility:

The Design of the above referenced project has been completed. Relocation and/or adjustment of some of your facilities will be required to accommodate the construction of our project.

The attached plan sheet shows the existing locations of your facilities which must be relocated in green and the proposed location in red.

(delete if no construction relocation is required)

Compliance with the Department Control Zone Policy is required on this project. Attached is the Utility Object Relocation Record which lists the Location I and Location II utility objects which must be adjusted in conjunction with the construction of our project.

(delete if no location I or II object adjustment is required)

Please complete your relocation prior to (estimated Bid Opening)

Attached is an application for (Franchise Amendment/Permit) to be completed for the above work. A prompt return of the application, and if applicable the Utility Object Relocation Record and other supporting data, would be appreciated.

Please coordinate your construction work with our Project Engineer \_\_\_\_\_ at telephone \_\_\_\_\_. Our Project Engineer will provide you with specific project construction information related to your work, such as roadway geometrics, survey data and project schedule.

If you have any questions regarding the above information please call \_\_\_\_\_ at (206) 357-2657.

Sincerely,

R.L. ANDERSON

A Plan for Implementation  
of the Control Zone Guidelines

LOCATION II OBJECT  
RECLASSIFICATION REQUEST

District 3

Utility Name: <i>PUSET POWER</i>
Date: <i>4-4-91</i>
SR <i>12</i> Mile Post <i>32.00</i>
County <i>GRAYS HARBOR</i>
Franchise/Permit No.

Reclass to Location III
<input checked="" type="checkbox"/> Approved
<input type="checkbox"/> Disapproved
<i>M. [Signature]</i>
WSDOT - HQ

Data for Cost Effective Selection Procedure				
DOT Provided	Data	Utility Provided		
		Existing Object	Increased lateral offset distance within R/W	Object relocated outside Control Zone
<i>6,400</i> VPD	Traffic Volume			
<i>.20</i> %	Traffic Growth Rate			
<i>Undiv.</i>	Roadway Type			
<i>1</i>	Number of Lanes			
<i>12</i> Ft.	Width of Lanes			
<i>0</i> Deg.	Roadway Curve Adjustment			
<i>1.0</i> %	Roadway Grade Adjustment			
<i>1.0</i>	User Adjustment Factor			
	Design Speed	<i>60</i> MPH	MPH	<i>60</i> MPH
	Hazard Offset	<i>24</i> Ft.	Ft.	<i>29</i> Ft.
	Hazard length	<i>1</i> Ft.	Ft.	<i>1</i> Ft.
	Hazard Width	<i>1</i> Ft.	Ft.	<i>1</i> Ft.
<i>5.60</i> Table	Severity Index			
	Object Life	<i>40</i> Yrs.	Yrs.	<i>40</i> Yrs.
	Discount Rate	<i>11</i> %	%	<i>11</i> %
	Cost of Installation	\$ <i>0</i>	\$	\$ <i>3,500.</i>
	Cost of Repair	\$ <i>2,000</i>	\$	\$ <i>2,000.</i>
	Cost of Routine Maint.	\$ <i>50.</i>	\$	\$ <i>50.</i>
	Salvage Value	\$ <i>0</i>	\$	\$ <i>0</i>

Prepared By: *ME*

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04-04-1991

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GLOBAL PARAMETERS

1. FATALITY COST = \$ 500,000
2. SEVERE INJURY COST = \$ 110,000
3. MODERATE INJURY COST = \$ 10,000
4. SLIGHT INJURY COST = \$ 3,000
5. PDO LEVEL 2 COST = \$ 2,500
6. PDO LEVEL 1 COST = \$ 500
7. ENCROACHMENT RATE MODEL =  $0.001210 * (ADTeff ^ 1.000000)$   
ENCROACHMENTS PER MILE PER YEAR
8. ENCROACHMENT ANGLE AT 40 MPH = 17.2 DEGREES
9. ENCROACHMENT ANGLE AT 50 MPH = 15.2 DEGREES
10. ENCROACHMENT ANGLE AT 60 MPH = 13.0 DEGREES
11. ENCROACHMENT ANGLE AT 70 MPH = 11.6 DEGREES
12. LIMITING TRAFFIC VOLUME PER LANE = 10,000 VEHICLES PER DAY
13. SWATH WIDTH = 12 FT.

SEVERITY INDEX	COST
0.0	\$ 0
0.5	\$ 500
1.0	\$ 1,375
2.0	\$ 3,135
3.0	\$ 10,295
4.0	\$ 25,350
5.0	\$ 56,535
6.0	\$116,555
7.0	\$186,150
8.0	\$281,720
9.0	\$395,500
10.0	\$500,000

1. TITLE: SR 12 MP 32.00 Existing Pole
2. INITIAL TRAFFIC VOLUME = 6,400 VEHICLES PER DAY  
 TRAFFIC GROWTH RATE = 2.0 % PER YEAR      DESIGN YEAR ADT = 14,131  
 LIMITING TRAFFIC VOLUME PER LANE = 10,000
3. UNDIVIDED HIGHWAY LANE(S) OF ADJACENT TRAFFIC = 1. LANE WIDTH = 12.0 FT.
4. CURVATURE = 0.0 DEGREES      GRADE (PERCENTAGE) = 1.0
5. INITIAL ENCROACHMENT FREQUENCY = 0.0012100 \* (T<sub>veff</sub> ^ 1.000000)  

	TRAFFIC VOLUME	BASELINE ENC.	CURVATURE FACTOR	GRADE FACTOR	USER FACTOR	TOTAL ENC.
ADJACENT	3,200	3.8720	1.00	1.00	<span style="border: 1px solid black; padding: 2px;">1.0</span>	3.8720
OPPOSING	3,200	3.8720	1.00	1.00	1.0	3.8720
6. DESIGN SPEED = 60 MPH      ENCROACHMENT ANGLE = 13.0      SWATH WIDTH = 12.0
7. LATERAL PLACEMENT (A) = 24. FT.  
 LONGITUDINAL LENGTH (L) = 1. FT.  
 WIDTH OF OBSTACLE = 1. FT.  

	ZONE1	ZONE2	ZONE3	ENCROACHMENTS/YEAR
ADJACENT	0.0032	0.0391	0.0007	ENCROACHMENTS/YEAR
OPPOSING	0.0032	0.0391	0.0007	ENCROACHMENTS/YEAR
8. INITIAL COLLISION FREQUENCY = 0.010 IMPACTS PER YEAR  
 EXPECTED IMPACTS OVER PROJECT LIFE = 0.585  
 ADJACENT CFT= 0.0065      CF1 = 0.0003      CF2 = 0.0060      CF3 = 0.0002  
 OPPOSING CFT= 0.0031      CF4 = 0.0001      CF5 = 0.0029      CF6 = 0.0001
9. SEVERITY INDEX = 5.60      5.60      5.60      5.60      5.60  

	SIDEUP	SIDEDOWN	UP CORNER	DOWN CORNER	FACE
ACCIDENT COST = \$	92,547	\$ 92,547	\$ 92,547	\$ 92,547	\$ 92,547
INITIAL COST/YEAR IMPACTS WITH UPSTREAM SIDE OF HAZARD = \$					30
INITIAL COST/YEAR IMPACTS WITH DOWNSTREAM SIDE OF HAZARD = \$					14
INITIAL COST/YEAR IMPACTS WITH UPSTREAM CORNER OF HAZARD = \$					556
INITIAL COST/YEAR IMPACTS WITH DOWNSTREAM CORNER OF HAZARD = \$					266
INITIAL COST/YEAR IMPACTS WITH FACE OF HAZARD = \$					21
TOTAL INITIAL ACCIDENT COST = \$					887.
10. PROJECT LIFE = 40 YEARS      DISCOUNT RATE = 11.0 %  
 KT = 8.951      KJ = 0.015      CRF = 0.112      KC = 10.840
11. COST OF INSTALLATION = \$ 0.
12. COST OF REPAIR \$ SU= 2000      SD= 2000      CU= 2000      CD= 2000      F= 2000
13. MAINTENANCE COST PER YEAR = \$ 50.
14. SALVAGE VALUE = \$ 0.
15. TOTAL PRESENT WORTH = \$ 10,271.      ANNUALIZED \$ 1,147.  
HIGHWAY DEPARTMENT COST = \$ 655.      ANNUALIZED \$ 73.  

INSTALLATION COST =	\$	0.	ANNUALIZED \$	0.
REPAIR COST =	\$	208.	ANNUALIZED \$	23.
MAINTENANCE COST =	\$	448.	ANNUALIZED \$	50.
SALVAGE VALUE =	\$	0.	ANNUALIZED \$	0.
ACCIDENT COST =	\$	9,615.	ANNUALIZED \$	1,074.

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1. TITLE: SR 12 MP 32.00 Relocated Pole
2. INITIAL TRAFFIC VOLUME = 6,400 VEHICLES PER DAY  
 TRAFFIC GROWTH RATE = 2.0 % PER YEAR      DESIGN YEAR ADT = 14,131  
 LIMITING TRAFFIC VOLUME PER LANE = 10,000
3. UNDIVIDED HIGHWAY LANE(S) OF ADJACENT TRAFFIC = 1.      LANE WIDTH = 12.0 FT.
4. CURVATURE = 0.0 DEGREES      GRADE (PERCENTAGE) = 1.0
5. INITIAL ENCROACHMENT FREQUENCY = 0.0012100 \* (T<sub>veff</sub> ^ 1.000000)
 

	TRAFFIC VOLUME	BASELINE ENC.	CURVATURE FACTOR	GRADE FACTOR	USER FACTOR	TOTAL ENC.
ADJACENT	3,200	3.8720	1.00	1.00	1.0	3.8720
OPPOSING	3,200	3.8720	1.00	1.00	1.0	3.8720
6. DESIGN SPEED = 60 MPH      ENCROACHMENT ANGLE = 13.0      SWATH WIDTH = 12.0
7. LATERAL PLACEMENT (A) = 29. FT.  
 LONGITUDINAL LENGTH (L) = 1. FT.  
 WIDTH OF OBSTACLE = 1. FT.
 

	ZONE1	ZONE2	ZONE3	
ADJACENT	0.0032	0.0391	0.0007	ENCROACHMENTS/YEAR
OPPOSING	0.0032	0.0391	0.0007	ENCROACHMENTS/YEAR
8. INITIAL COLLISION FREQUENCY = 0.007 IMPACTS PER YEAR  
 EXPECTED IMPACTS OVER PROJECT LIFE = 0.429  
 ADJACENT CFT= 0.0048      CF1 = 0.0002      CF2 = 0.0045      CF3 = 0.0001  
 OPPOSING CFT= 0.0022      CF4 = 0.0001      CF5 = 0.0021      CF6 = 0.0001
9. SEVERITY INDEX = 5.60      5.60      5.60      5.60      5.60
 

	SIDEUP	SIDEDOWN	UP CORNER	DOWN CORNER	FACE
ACCIDENT COST = \$	92,547	\$ 92,547	\$ 92,547	\$ 92,547	\$ 92,547
INITIAL COST/YEAR IMPACTS WITH UPSTREAM SIDE				OF HAZARD = \$	22
INITIAL COST/YEAR IMPACTS WITH DOWNSTREAM SIDE				OF HAZARD = \$	10
INITIAL COST/YEAR IMPACTS WITH UPSTREAM CORNER				OF HAZARD = \$	412
INITIAL COST/YEAR IMPACTS WITH DOWNSTREAM CORNER				OF HAZARD = \$	191
INITIAL COST/YEAR IMPACTS WITH FACE				OF HAZARD = \$	15
TOTAL INITIAL ACCIDENT COST = \$					651.
10. PROJECT LIFE = 40 YEARS      DISCOUNT RATE = 11.0 %  
 KT = 8.951      KJ = 0.015      CRF = 0.112      KC = 10.840
11. COST OF INSTALLATION = \$ 3,500.
12. COST OF REPAIR \$ SU= 2000      SD= 2000      CU= 2000      CD= 2000      F= 2000
13. MAINTENANCE COST PER YEAR = \$ 50.
14. SALVAGE VALUE = \$ 0.
15. TOTAL PRESENT WORTH = \$ 11,154.      ANNUALIZED \$ 1,246.  
 HIGHWAY DEPARTMENT COST = \$ 4,100.      ANNUALIZED \$ 458.
 

INSTALLATION COST =	\$ 3,500.	ANNUALIZED \$	391.
REPAIR COST =	\$ 152.	ANNUALIZED \$	17.
MAINTENANCE COST =	\$ 448.	ANNUALIZED \$	50.
SALVAGE VALUE =	\$ 0.	ANNUALIZED \$	0.
ACCIDENT COST =	\$ 7,054.	ANNUALIZED \$	788.

**TYPICAL SITUATIONS WHEN A RECLASSIFICATION REQUEST MIGHT BE SUBMITTED**

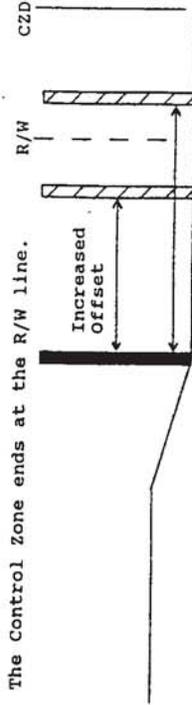


Existing Object Relocated Object

I. Situations in which the Control Zone Distance is located within the R/W. A small shift in the utility object location is required for CZ compliance.



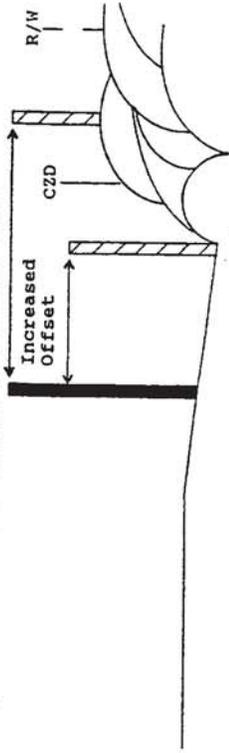
III. Situations in which the Control Zone Distance extends beyond the R/W. Relocating the utility object outside the R/W is required for CZ compliance. The utility object can be relocated to the R/W line.



II. Situations in which the Control Zone Distance extends beyond the R/W. Relocating the utility object outside the R/W is required for CZ compliance. The existing utility object is located at the R/W line.



IV. Situations in which the Control Zone Distance is located within the R/W. The terrain or other physical features prevent relocation outside the Control Zone.





**A Plan for Implementation  
of the Control Zone Guidelines**

Each Utility with above ground utility objects within DOT right of way is required to submit to DOT an Annual Mitigation Target (AMT) Plan. The method for developing the AMT Plan consist of the three following phases:

**PHASE I**

The DOT will review the Utility's previous year accomplishments on projects for which construction was completed prior to September of that year. Corrected objects and objects reclassified in place will be tallied. The Adjusted AMT will be calculated. The previous year's credits or balances will be subtracted or added, resulting in the new Required Object correction number.

**199\_ Annual Mitigation Target Plan**

<i>Utility Name:</i>	<i>AMT Reclass Adjustment</i>	<i>Adjusted AMT</i>
<i>Date Prepared:</i>	<i>Total Objects Previous Year</i>	<i>Credit carried over (-)</i>
<i>Prepared By:</i>	<i>Objects Reclassified Previous Year (-)</i>	<i>Bal. carried over (+)</i>
	<i>Current Year Object Total</i>	<i>199_ Required</i>
	<i>Total Compliance Years (+)</i>	<i>Object Correction</i>
	<i>199_ Adjusted AMT</i>	

The top section of the 199\_ AMT Plan will be completed by the District Utilities Office in the fall of each year. A notice will be sent to each Utility to prepare the following year's Annual Mitigation Target Plan. This notice will include a copy of the AMT Plan with the updated AMT information.





1992 Annual Mitigation Target Plan

Utility Name: *Pgsr Co PUD*  
Date Prepared: *12/12/91*  
Prepared By: *PUD Engineer*

AMT Reclass Adjustment	2534	Adjusted AMT	64
Total Objects Previous Year	(-)	Credit carried over	(-)
Objects Reclassified Previous Year	2534	Bal. carried over	(+)
Current Year Object Total	(+)	199_ Required	0
Total Compliance Years	40	Object Correction	64
1992 Adjusted AMT	64		

AMT PLAN PROJECTS	Anticipated Corrected Objects	Constr. Date	Utility Object Relocation Record		Constr. Corrected Objects *	Complete Compl. Date	Objects Reclassified In place
			Sent.	Obj. Rec.			
<b>Case 2 - Existing Utility Reconstruction</b>							
SR 24 MP 1170 to 1280 - F-6532 AMR	9	4/92	10	4/92	10	5/22/92	
<b>Case 3 - DOT Project Utility Relocation</b>							
SR 13, Clearview to Switzer (SR) 2750 to 3570	32	6/92	27	3/92	22	4/6/92	5
SR 16, Harrison to Jefferson (SR) 1720 to 2550	10	7/92	9	6/92	7	8/7/92	2
SR 24, Gabel Co. to Sampson (SR) 1850 to 2770	24	7/92	36	2/92		(Project delayed until 1993)	
<b>Case 4 - Annual Mitigation Target Construction</b>							
ANNUAL TOTALS 75							
COMPLIANCE TOTALS 39							

\* Total Objects Applying toward AMT  
\*\* Credited Toward AMT  
\*\*\* Used to adjust next year's AMT

1993 Annual Mitigation Target Plan

Utility Name: <i>Pgs T Co. PUD</i>	AMT Reclass Adjustment	Adjusted AMT	64
Date Prepared: <i>10/16/92</i>	Total Objects Previous Year	Credit carried over	(-) 0
Prepared By: <i>PUD Engineer</i>	Objects Reclassified Previous Year	Bal. carried over	(+) 25
	Current Year Object Total	1993 Required	89
	Total Compliance Years	Object Correction	
	1993 Adjusted AMT		

AMT PLAN PROJECTS	Anicipated Corrected Objects	Constr. Date	Utility Object Relocation Record		Constr. Corrected Objects *	Complete Compl. Date	Objects Reclassified In place
			Sent.	Obj. Rec.			
<i>Case 2 - Existing Utility Reconstruction</i>							
<i>SR 35, MP 52.20 to 54.30 - F. 6218 AM 4</i>	13	8/93	15	5/83	11	7/18/93	4
<i>Case 3 - DOT. Protect Utility Relocation</i>							
<i>SR 24, Gold Cr. to Simpson (SR) MP 18.50 to 25.70</i>	32	4/93	32	6/93	30	8/15/93	2
<i>SR 17, Jim Rd. to Hawk Cr. (SR) MP 27.50 to 36.40</i>	28	5/93	35	3/93	32	4/25/93	3
<i>Case 4 - Annual Mitigation Target Construction</i>							
<i>SR 72, MP 22.70 to 27.40 - F. 6124</i>	18	2/93	21	2/93	17	3/1/93	4
<b>ANNUAL TOTALS</b>	<b>91</b>		<b>103</b>		<b>70</b>		<b>13</b>
<b>COMPLIANCE TOTALS</b>					<b>129</b>		<b>20</b>

\* Total Objects Applying toward AMT  
 \*\* Credited Toward AMT  
 \*\*\* Used to adjust next year's AMT

*Example*

1994 Annual Mitigation Target Plan

Utility Name: Rydz Co PUD  
Date Prepared: \_\_\_\_\_  
Prepared By: \_\_\_\_\_

AMT Reclass Adjustment		Adjusted AMT	63
Total Objects Replaced Previous Year	(-)	Credit carried over (-)	1
Objects Replaced Previous Year	2527	Bal. carried over (+)	0
Current Year Object Total	2514	199 Required	62
Total Compliance Years	(+)	Object Correction	
1994 Adjusted AMT	63		

AMT PLAN PROJECTS	Anticipated		Utility Object Relocation Record		Construc. Complete	Objects Reclassified In place
	Corrected Objects	Constr. Date	Sent. Obj.	Rec. Obj.		
Case 2 - Existing Utility Reconstruction						
Case 3 - DOT Project Utility Relocation						
Case 4 - Annual Mitigation Target Construction						
<b>ANNUAL TOTALS</b>						
<b>COMPLIANCE TOTALS</b>						

\* Total Objects Applying toward AMT  
\*\* Credited Toward AMT  
\*\*\* Used to adjust next year's AMT

*Example*

