

EARTHWORK SUMMARY

**SR 89A
SR 89A AT PAGE SPRINGS ROAD
PROJECT NO. 089A YV 362 F0624 01C
FEDERAL AID NO. A89-B(225)T**

**PREPARED BY
STANLEY CONSULTANTS INC.
MARCH 2026**



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EARTHWORK SUMMARY CALCULATIONS

EARTHWORK FACTORS

SR 89A

Station	Shrink
OVERALL PROJECT	10%

For this "Earthwork Package", shrinkage of all the excavated quantities will be in accordance with the above table.

EXCAVATION

SR 89A

ROADWAY EXCAVATION

Roadway Excavation		
		Total
	SR 89A (Raw volume)	2,715 CY
>	AC Pavement Removal (Deduct Roadway Excavation)	(487) CY
>	Roadway Excavation available for Roadway Embankment	2,229 CY

See Exhibit A
See Exhibit A
See Exhibit A

ROADWAY OVEREXCAVATION

Roadway Overexcavation (End Areas)		
		Total
>	SR 89A	5,058 CY
>	South U-Turn	672 CY
>	Roadway Overexcavation available for Roadway Embankment	5,730 CY

PIPE, STRUCTURAL AND DRAINAGE EXCAVATION

		Total	
	Pipe Excavation	61 CY	<i>See Exhibit C</i>
>	Structural Excavation	140 CY	<i>See Exhibit D</i>
>	Drainage Excavation	699 CY	<i>See Exhibit C</i>

ASPHALT CONCRETE REMOVAL

>	ASPHALT CONCRETE REMOVAL	782 CY	-	<i>See Exhibit A</i>
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Existing AC Pavement available for Roadway Embankment per specifications. Roadway Excavation and Embankment quantities have been adjusted for removal of AC Pavement.

EXCAVATION SUMMARY

>	Total Roadway Excavation	2,229 CY
>	Total Roadway Overexcavation	5,730 CY
	Total Pipe Excavation	61 CY
>	Total Structural Excavation	140 CY
>	Total Drainage Excavation	699 CY
>	Asphalt Concrete Removal	782 CY
	Total Excavation	8,859 CY
	Total Shrinkage (10%)	(886) CY
	Material Available for Embankment	7,973 CY

NOTES: Raw numbers are denoted by an Outline
 All others are calculated from the raw numbers in the spreadsheet
 > Denotes Pay Item

EMBANKMENT

SR 89A

TOTAL EMBANKMENT

	Roadway Embankment	4,325 CY	<u>See Exhibit A</u>
>	Roadway Overexcavation	5,730 CY	<u>See Exhibit A</u>
	Pipe Backfill	27 CY	<u>See Exhibit C</u>
>	Structural Backfill	193 CY	<u>See Exhibit D</u>
	Gound Compaction (0.1 Ft)	169 CY	<u>See Exhibit B</u>
Subtotal Embankment		10,224 CY	

Outline

NOTES: Raw numbers are denoted by an
All others are calculated from the raw numbers in the spreadsheet

> Denotes Pay Item

NA - No adjustment to Embankment necessary. Pipe Bedding, Pipe Backfill, and Structure Backfill material assumed to be from off-site sources.

EXCESS MATERIAL / WASTE

SR 89A

EXCESS MATERIAL / WASTE

Total Excavation	7,973 CY
Total Embankment Need	10,224 CY

Total Borrow (In Place)	2,251 CY
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Earthwork Table as Shown on the Design Data Sheet of the Final Plans

EARTHWORK QUANTITIES		
>	Roadway Excavation	2,229 CY
>	Roadway OverExcavation	5,730 CY
	Pipe Excavation	61 CY
>	Structural Excavation	140 CY
>	Drainage Excavation	699 CY
	Sub Total Excavation	8,859 CY
	Total Shrinkage (10%)	886 CY
>	AC Pavement Removal*	782 CY
	Total Excavation Available for Embankment	7,973 CY
	Roadway Embankment	4,325 CY
>	Roadway OverExcavation	5,730 CY
	Pipe Backfill	27 CY
>	Structural Backfill	193 CY
	Ground Compaction (0.1 Ft)	169 CY
	Total Embankment Need	10,224 CY
>	Total Borrow (In Place)	2,251 CY

NOTES:

> Pay Item

* Existing AC Pavement available for Roadway Embankment per Specifications. Roadway Excavation and Embankment quantities have been adjusted for removal of AC Pavement. Thickness assumed to be 5" for this volume calculation.

BACK UP CALCULATIONS

EXHIBIT A

COMMON EXCAVATION & COMMON EMBANKMENT

Description: The “Common Excavation” and “Common Embankment” quantities are derived from the roadway cross-sections using the average end area method. The “Common Excavation” quantity is included in the “Total Excavation”. The “Common Embankment” quantity is included in the “Total Embankment”.

Pavement Removal Calculations

	Depth	Area	Volume	
AC Pavement Removal (Not Associated with Roadway Excavation)	5.0 In AC	19,149.0 SF	296 CY	
AC Pavement Removal (Deduct Roadway Excavation)	5.0 In AC	31,545.7 SF	487 CY	*
Total AC assumed to be removed and disposed of offsite.			782 CY	
Total AC included in the earthwork but deducted from available excavation			487 CY	

* Reduce SR 89A Road Excavation and Add to Pavement Removal assumed to be disposed of offsite.

Note 1: Pavement Removal Area measured in CADD

pw:\\SCI-PWINTeG-2.stanleygroup.com:Datasource-1\\Documents\\Arizona_Department_Of_Transportation\\30943 - Project Development On-Call - 2022-006.14\\30943.10 - ADOT SR 89A and Page Springs Road\\11-CADD\\Worksets\\F0624\\dgn\\Base Files\\Model\\F0264 Corridor Widening CF

End Area Volume Report

Report Created: Monday, November 3, 2025

Time: 3:13:46 PM

et Name: Exst SR 89A SB Cst CL

nt Name: Exst SR 89A SB Cst CL

id Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

----- Station Quantities -----						
Baseline Station						
----- Cut -----			----- Fill -----			
Factor	Area	Volume	Factor	Area	Volume	
51275	1	14	0	1	0	0
51300	1	14	13	1	0	0
51400	1	15	53	1	0	0
51500	1	21	67	1	399	739
51600	1	41	115	1	178	1069
51700	1	19	111	1	0	330
51800	1	12	57	1	0	0
51900	1	33	82	1	0	0
52000	1	33	122	1	10	18
52100	1	23	104	1	1	20
52200	1	107	242	1	0	2
52300	1	81	348	1	0	0
52400	1	83	303	1	3	6
52500	1	40	228	1	3	11
52600	1	19	109	1	33	65
52700	1	36	101	1	74	198
52800	1	33	128	1	37	207
52900	1	60	172	1	108	270
53000	1	8	126	1	0	200
53100	1	5	25	1	1	1
53200	1	7	22	1	0	1
53300	1	8	27	1	0	0
53400	1	6	24	1	0	0
Grand Total:		2579	3137			

Note 1: Due to the geometry of the U-turn curvature the design team determined the end area volume method was not as accurate as the triangulation method of calculating earthwork.

Excavation	2715	(Triangulation)	Embankment	4325	(Triangulation)
	2615	(End Area)		3137	(End Area)
	-4%	Difference		-27%	Difference

Note 2: As the U-turn earthwork volumes are primarily embankment, it made sense the end area volume calculation method wasn't accurate when calculating the embankment

EXHIBIT B

GROUND COMPACTION

Description: “Ground Compaction” results in an unexcavated void that needs to be filled in with embankment material when filling on existing ground. Therefore, this quantity is added to the “Total Embankment” quantity.

Ground Compaction Calculation

Ground Compaction			
Location	Area	Depth	Volume
SR 89A	45,590 SF	0.1 Ft	4,559 CF
Total	45,590 SF		4,559 CF

169 CY

Note 1: Ground Compaction Area measured in CADD

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1\\Documents\\Arizona_Department_Of_Transportation\\30943 - Project Development On-Call - 2022-
006.14\\30943.10 - ADOT SR 89A and Page Springs Road\\11-CADD\\Worksets\\F0624\\dgn\\Base
Files\\Model\\F0264 Corridor Widening CF

EXHIBIT C

PIPE EXCAVATION & BACKFILL

Description: “Pipe Excavation” is the sum of the volumes of the pipe, pipe trench backfill, pipe bedding, and pipe backfill. The volume of “Pipe Excavation” is available for use as pipe trench backfill and roadway embankment. “Pipe Excavation” is also available for use as pipe backfill if the material meets the requirements for pipe backfill as specified in the Special Provisions and Standard Specifications. The “Pipe Excavation” is included in the “Total Excavation”. The “Pipe Trench Backfill” volume is the difference between the “Pipe Excavation” volume and the combined volume of the pipe, pipe bedding, and pipe backfill and is included in the “Total Embankment”. “Pipe Backfill” and “Pipe Bedding” are not included in the “Total Embankment” because the material is assumed to be from an off site source.

NOTE:
THE ZEROS IN PARENTHESES (0, 0.0 & 0.000) INDICATE
THE DIMENSIONAL PRECISION FOR THAT COLUMN

NOTE:
FOR PIPE CULVERT PLACEMENT SEE
STANDARD DRAWINGS C-13.10 AND C-13.15

NOTE:
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO
MEET MINIMUM SERVICE LIFE.
ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE
LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT
ALLOWABLE ALTERNATES.

CSP	- CORRUGATED STEEL PIPE	CAP	- CORRUGATED ALUMINUM PIPE
RCP	- REINFORCED CONCRETE PIPE		
NRCP	- NON-REINFORCED CONCRETE PIPE		
NRCPCP	- NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE		
CHDPEP	- CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE		
CPPP	- CORRUGATED POLYPROPYLENE PIPE		

[illegible]

FILL HEIGHT RANGE TABLE (Ft.)													
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
● SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

☑ PIPE CORRUGATION			
A	2 $\frac{2}{3}$ x1 $\frac{1}{2}$	D	6x2
B	3x1	E	3x1 or 9x2 $\frac{1}{2}$
C	9x2 $\frac{1}{2}$		

PRELIMINARY
STAGE V
100% Review
NOT FOR
CONSTRUCTION
OR RECORDING

	NAME	DATE
DESIGN	JL	03/26
DRAWN	RM	03/26
CHECKED	JPM	03/26



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Stanley Consultants INC.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

NEW PIPE SUMMARY SHEET

ROUTE
MILEPOST
STRUCTURE

STATE
ARIZ.

PROJECT NO.
089A YV 362

FEDERAL ID NO.
A89-B(225)T

SHEET NO.	TOTAL SHEETS	RECORD DRAWING

LOCATION SR89A AT PAGE SPRINGS ROAD

TRACS NO. F0624 01C

DWG NO. G-03.01

OF _____

REV. DATE: MAR 2022

[illegible]

EXHIBIT D

STRUCTURAL EXCAVATION & STRUCTURE BACKFILL

Description: “Structural Excavation & Structure Backfill” calculations consist of the volume of Structural Excavation and the volume of Structure Backfill required to build the Box Culverts. The quantity of Structural Excavation is included in the “Total Excavation” quantity. The value of Structure Backfill is not included in the “Total Embankment” quantity because the “Structure Backfill” is assumed to be from an off site source.



Project: SR 89A & Page Springs Rd
Subject: CBC Backfill Quantities

Computed: J. Lopez
Checked: J. Lastovic

Date: 1/6/2026
Date: 3/10/2026

Ref ID: BE 3	Box Height (Ft)= 4	Side Slope: 4:1
Sta: NB SR 89A 527+08	Inlet Leng 42	Details: SD-6.01 SD-6.04 SD-6.08
	Short Wing Length (Ft)= 11	
	Long Wing Length (Ft)= 14.5	

Total Backfill (CY)= 50	Wing Backfill Area 1 (SF)= 15.615	Notes:
	Wing Backfill Area 2 (SF)= 8.625	
Box Backfill (CY)= 38		
Short Wing Backfill (CY)= 5		
Long Wing Backfill (CY)= 7		

Ref ID: 4	Box Height (Ft)= 4	Side Slope: 4:1
Sta:	Inlet Leng 45	Details: SD-6.01 SD-6.04 SD-6.10
	Outlet Length (Ft)= 35	
	Inlet Wing Lengths (Ft)= 11 13	
	Outlet Wing Lengths (Ft)= 7 7	

Total Backfill (CY)= 95	Wing Backfill Area 1 (SF)= 15.615	Notes:
Inlet Backfill (CY)= 54		
Outlet Backfill (CY)= 41		
Inlet Box Backfill (CY)= 40		
Outlet Box Backfill (CY)= 32		
Inlet Wings Backfill (CY)= 14		
Outlet Wing Backfill (CY)= 9		

Culvert Earthwork Summary

Structural Excavation	
Location	Volume
Box Culvert 3	48 CF
Box Culvert 4	92 CF
Total	140 CF

End Area Volume Report

Report Created: Monday, October 27, 2025
Time: 4:09:11 PM

Cross Section Set Name: Profile10
Alignment Name: Profile6
Input Grid Factor: Note:

All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinate
	----- Cut -----				----- Fill -----				
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
0+00.00	1	11.507	0	0	1	0	0	0	0
0+01.00	1	12.468	0.44	0.44	1	0	0	0	0.44
0+02.00	1	15.105	0.51	0.51	1	0	0	0	0.95
0+03.00	1	17.268	0.6	0.6	1	0	0	0	1.55
0+04.00	1	17.563	0.65	0.65	1	0	0	0	2.2
0+05.00	1	17.901	0.66	0.66	1	0	0	0	2.86
0+06.00	1	18.256	0.67	0.67	1	0	0	0	3.53
0+07.00	1	18.579	0.68	0.68	1	0	0	0	4.21
0+08.00	1	18.81	0.69	0.69	1	0	0	0	4.9
0+09.00	1	19.018	0.7	0.7	1	0	0	0	5.6
0+10.00	1	19.259	0.71	0.71	1	0	0	0	6.31
0+11.00	1	19.537	0.72	0.72	1	0	0	0	7.03
0+12.00	1	19.851	0.73	0.73	1	0	0	0	7.76
0+13.00	1	20.201	0.74	0.74	1	0	0	0	8.5
0+14.00	1	20.587	0.76	0.76	1	0	0	0	9.25
0+15.00	1	20.998	0.77	0.77	1	0	0	0	10.02
0+16.00	1	21.397	0.79	0.79	1	0	0	0	10.81
0+17.00	1	21.704	0.8	0.8	1	0	0	0	11.61
0+18.00	1	21.794	0.81	0.81	1	0	0	0	12.41
0+19.00	1	21.795	0.81	0.81	1	0	0	0	13.22
0+20.00	1	21.794	0.81	0.81	1	0	0	0	14.03
0+21.00	1	21.785	0.81	0.81	1	0	0	0	14.83
0+22.00	1	21.76	0.81	0.81	1	0	0	0	15.64
0+23.00	1	21.718	0.81	0.81	1	0	0	0	16.45
0+24.00	1	21.661	0.8	0.8	1	0	0	0	17.25
0+25.00	1	21.68	0.8	0.8	1	0	0	0	18.05
0+26.00	1	21.84	0.81	0.81	1	0	0	0	18.86
0+27.00	1	22.034	0.81	0.81	1	0	0	0	19.67
0+28.00	1	22.136	0.82	0.82	1	0	0	0	20.49
0+29.00	1	22.144	0.82	0.82	1	0	0	0	21.31
0+30.00	1	22.14	0.82	0.82	1	0	0	0	22.13
0+31.00	1	22.121	0.82	0.82	1	0	0	0	22.95
0+32.00	1	22.086	0.82	0.82	1	0	0	0	23.77
0+33.00	1	22.035	0.82	0.82	1	0	0	0	24.58

0+34.00	1	21.986	0.82	0.82	1	0	0	0	25.4
0+35.00	1	22.056	0.82	0.82	1	0	0	0	26.21
0+36.00	1	22.267	0.82	0.82	1	0	0	0	27.04
0+37.00	1	22.509	0.83	0.83	1	0	0	0	27.86
0+38.00	1	22.66	0.84	0.84	1	0	0	0	28.7
0+39.00	1	22.696	0.84	0.84	1	0	0	0	29.54
0+40.00	1	22.682	0.84	0.84	1	0	0	0	30.38
0+41.00	1	22.652	0.84	0.84	1	0	0	0	31.22
0+42.00	1	22.606	0.84	0.84	1	0	0	0	32.06
0+43.00	1	22.543	0.84	0.84	1	0	0	0	32.89
0+44.00	1	22.451	0.83	0.83	1	0	0	0	33.73
0+45.00	1	22.316	0.83	0.83	1	0	0	0	34.56
0+46.00	1	22.139	0.82	0.82	1	0	0	0	35.38
0+47.00	1	21.99	0.82	0.82	1	0	0	0	36.2
0+48.00	1	21.944	0.81	0.81	1	0	0	0	37.01
0+49.00	1	21.943	0.81	0.81	1	0	0	0	37.82
0+50.00	1	21.93	0.81	0.81	1	0	0	0	38.64
0+51.00	1	21.904	0.81	0.81	1	0	0	0	39.45
0+52.00	1	21.866	0.81	0.81	1	0	0	0	40.26
0+53.00	1	21.812	0.81	0.81	1	0	0	0	41.07
0+54.00	1	21.726	0.81	0.81	1	0	0	0	41.87
0+55.00	1	21.606	0.8	0.8	1	0	0	0	42.68
0+56.00	1	21.451	0.8	0.8	1	0	0	0	43.47
0+57.00	1	21.329	0.79	0.79	1	0	0	0	44.27
0+58.00	1	21.31	0.79	0.79	1	0	0	0	45.06
0+59.00	1	21.314	0.79	0.79	1	0	0	0	45.84
0+60.00	1	21.32	0.79	0.79	1	0	0	0	46.63
0+61.00	1	21.312	0.79	0.79	1	0	0	0	47.42
0+62.00	1	21.292	0.79	0.79	1	0	0	0	48.21
0+63.00	1	21.258	0.79	0.79	1	0	0	0	49
0+64.00	1	21.194	0.79	0.79	1	0	0	0	49.79
0+65.00	1	21.095	0.78	0.78	1	0	0	0	50.57
0+66.00	1	20.961	0.78	0.78	1	0	0	0	51.35
0+67.00	1	20.861	0.77	0.77	1	0	0	0	52.12
0+68.00	1	20.866	0.77	0.77	1	0	0	0	52.9
0+69.00	1	20.901	0.77	0.77	1	0	0	0	53.67
0+70.00	1	20.925	0.77	0.77	1	0	0	0	54.44
0+71.00	1	20.937	0.78	0.78	1	0	0	0	55.22
0+72.00	1	20.936	0.78	0.78	1	0	0	0	55.99
0+73.00	1	20.922	0.78	0.78	1	0	0	0	56.77
0+74.00	1	20.879	0.77	0.77	1	0	0	0	57.54
0+75.00	1	20.803	0.77	0.77	1	0	0	0	58.32
0+76.00	1	20.691	0.77	0.77	1	0	0	0	59.08
0+77.00	1	20.573	0.76	0.76	1	0	0	0	59.85
0+78.00	1	15.247	0.66	0.66	1	0	0	0	60.51
0+79.00	1	12.952	0.52	0.52	1	0	0	0	61.03
0+80.00	1	14.676	0.51	0.51	1	0	0	0	61.55

Grand Total:		61.55	61.55		0	0
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End Area Volume Report

Report Created: Wednesday, October 22, 2025
Time: 7:37:53 AM

Cross Section Set Name: Profile6
Alignment Name: Profile6
Input Grid Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinate
	----- Cut -----				----- Fill -----				
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
0+00.00	1	3.208	0	0	1	0	0	0	0
0+04.00	1	17.563	1.54	1.54	1	0	0	0	1.54
0+08.00	1	18.81	2.69	2.69	1	0	0	0	4.23
0+12.00	1	19.851	2.86	2.86	1	0	0	0	7.1
0+16.00	1	21.397	3.06	3.06	1	0	0	0	10.15
0+20.00	1	21.794	3.2	3.2	1	0	0	0	13.35
0+24.00	1	21.661	3.22	3.22	1	0	0	0	16.57
0+28.00	1	22.136	3.24	3.24	1	0	0	0	19.81
0+32.00	1	22.086	3.28	3.28	1	0	0	0	23.09
0+36.00	1	22.267	3.29	3.29	1	0	0	0	26.38
0+40.00	1	22.682	3.33	3.33	1	0	0	0	29.7
0+44.00	1	22.451	3.34	3.34	1	0	0	0	33.05
0+48.00	1	21.944	3.29	3.29	1	0	0	0	36.34
0+52.00	1	21.866	3.25	3.25	1	0	0	0	39.58
0+56.00	1	21.451	3.21	3.21	1	0	0	0	42.79
0+60.00	1	21.32	3.17	3.17	1	0	0	0	45.96
0+64.00	1	21.194	3.15	3.15	1	0	0	0	49.11
0+68.00	1	20.866	3.12	3.12	1	0	0	0	52.22
0+72.00	1	20.936	3.1	3.1	1	0	0	0	55.32
0+76.00	1	20.691	3.08	3.08	1	0	0	0	58.4
0+80.00	1	19.398	2.97	2.97	1	0	0	0	61.37
Grand Total:			61.37	61.37			0	0	

End Area Volume Report

Report Created: Tuesday, October 21, 2025
Time: 11:49:55 AM

Cross Section Set Name: Profile
Alignment Name: Profile
Input Grid Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinate
	----- Cut -----				----- Fill -----				
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
0+00.00	1	9.983	0	0	1	0	0	0	0
0+02.00	1	11.72	0.8	0.8	1	0	0	0	0.8
0+04.00	1	14.781	0.98	0.98	1	0	0	0	1.79
0+06.00	1	18.611	1.24	1.24	1	0	0	0	3.02
0+08.00	1	22.485	1.52	1.52	1	0	0	0	4.54
0+10.00	1	26.347	1.81	1.81	1	0	0	0	6.35
0+12.00	1	30.197	2.09	2.09	1	0	0	0	8.45
0+13.76	1	33.572	2.08	2.08	1	0	0	0	10.52
Grand Total:			10.52	10.52				0	0

End Area Volume Report

Report Created: Tuesday, October 21, 2025
Time: 11:53:23 AM

Cross Section Set Name: Profile8
Alignment Name: Profile8
Input Grid Factor: **Note:** All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	----- Station Quantities -----								Mass Ordinate
	----- Cut -----				----- Fill -----				
	Factor	Area	Volume	Adjusted	Factor	Area	Volume	Adjusted	
0+00.00	1	33.495	0	0	1	0	0	0	0
0+02.00	1	28.586	2.3	2.3	1	0	0	0	2.3
0+04.00	1	24.203	1.96	1.96	1	0	0	0	4.25
0+06.00	1	19.9	1.63	1.63	1	0	0	0	5.89
0+07.68	1	16.555	1.14	1.14	1	0	0	0	7.02
Grand Total:			7.02	7.02				0	0