

**Appendix B:**  
**Engineering Plans, Details, and Specifications**

# TOWN OF SNOWFLAKE

## SOUTHERN DRAINAGE SOLUTION, REACHES 1, 2 AND 3

CONTROL POINT	STATION	NORTHING	EASTING
1	1018+00	1280035.812	707435.165
2	1029+00	1279544.801	708419.495
3	1033+00	1279157.970	708521.290
4	1043+00	1278820.214	709462.524
5	1052+00	1278455.456	710285.295
6	1056+00	1278201.755	710594.545
7	1063+00	1278202.070	711294.545
8	1070+50	1277452.070	711294.545
9	1093+00	1277507.885	713543.852
10	1098+50	1277592.546	714087.297
11	1105+00	1277829.658	714692.506
12	1108+33.88	1277973.473	714993.826
13	1110+80.18	1278147.079	715168.534
14	1117+49.92	1278154.446	715838.233
15	1163+27.86	127818.981	720416.054
16	1165+98.16	1278374.664	720611.524

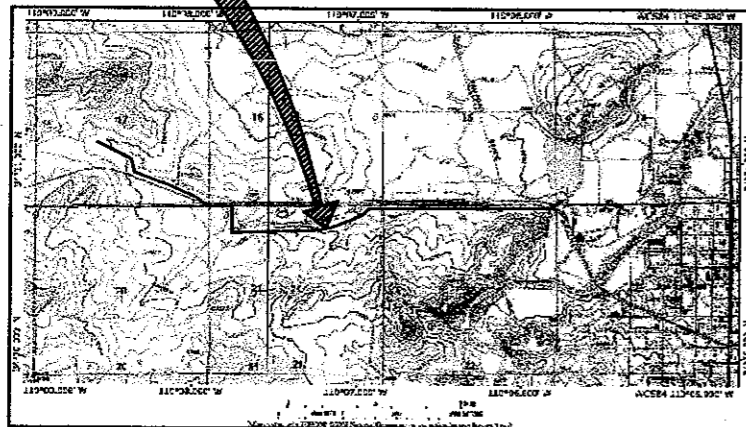
MAYOR  
**KELLY WILLIS**  
VICE MAYOR  
**KERRY BALLARD**  
COUNCIL  
**CHRIS BRIMHALL**      **LORRI DAVIS**  
**SHARON TATE**      **CHARLIE HENDRICKSON**  
**DEAN PORTER**  
TOWN MANAGER  
**PAUL WATSON**  
PUBLIC WORKS DIRECTOR  
**GARY FENSTERMAKER**  
PROJECT ENGINEER  
**ROBERT TOY, P.E.**

**INDEX:**

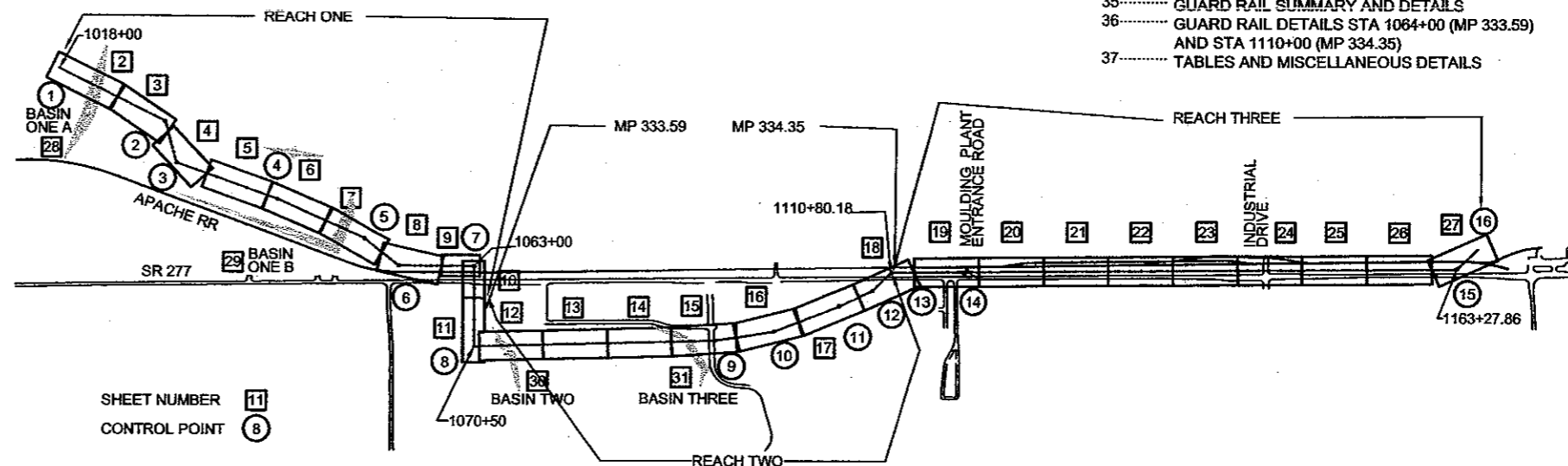
SHEET	CONTENTS
1	COVER SHEET
2	PLAN & PROFILE STA 1018+00 - STA 1024+00
3	PLAN & PROFILE STA 1024+00 - STA 1030+00
4	PLAN & PROFILE STA 1030+00 - STA 1036+00
5	PLAN & PROFILE STA 1036+00 - STA 1042+00
6	PLAN & PROFILE STA 1042+00 - STA 1048+00
7	PLAN & PROFILE STA 1048+00 - STA 1054+00
8	PLAN & PROFILE STA 1054+00 - STA 1060+00
9	PLAN & PROFILE STA 1060+00 - STA 1063+00
10	PLAN & PROFILE STA 1063+00 - STA 1066+00
11	PLAN & PROFILE STA 1066+00 - STA 1071+00
12	PLAN & PROFILE STA 1071+00 - STA 1077+00
13	PLAN & PROFILE STA 1077+00 - STA 1083+00
14	PLAN & PROFILE STA 1083+00 - STA 1089+00
15	PLAN & PROFILE STA 1089+00 - STA 1095+00
16	PLAN & PROFILE STA 1095+00 - STA 1101+00
17	PLAN & PROFILE STA 1101+00 - STA 1107+00
18	PLAN & PROFILE STA 1107+00 - STA 1113+00
19	PLAN & PROFILE STA 1113+00 - STA 1119+00
20	PLAN & PROFILE STA 1119+00 - STA 1125+00
21	PLAN & PROFILE STA 1125+00 - STA 1131+00
22	PLAN & PROFILE STA 1131+00 - STA 1137+00
23	PLAN & PROFILE STA 1137+00 - STA 1143+00
24	PLAN & PROFILE STA 1143+00 - STA 1149+00
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32	ADOT BOX CULVERT DETAILS
33	RAILROAD CROSSING BOX CULVERT DETAILS
34	TRAFFIC CONTROL PLAN
35	GUARD RAIL SUMMARY AND DETAILS
36	GUARD RAIL DETAILS STA 1064+00 (MP 333.59) AND STA 1110+00 (MP 334.35)
37	TABLES AND MISCELLANEOUS DETAILS

POSTED SPEED LIMIT - 45 MPH  
 DESIGN SPEED LIMIT - 50 MPH  
 DESIGN ADT - 800 - 2,000

**PROJECT**



VICINITY MAP  
1"=0.5 MILE



KEY MAP - NO SCALE



SHEET NUMBER 11  
 CONTROL POINT 8

**LEGEND**



Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

**APPROVALS:**  
 \_\_\_\_\_ TOWN MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 \_\_\_\_\_ PUBLIC WORKS DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
 \_\_\_\_\_ PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**NOTE:**

PLANS, DETAILS AND SPECIFICATIONS AS PER "MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS AS PER "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" MARICOPA ASSOCIATION OF GOVERNMENTS AND " ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION STANDARD DRAWINGS AND SPECIFICATIONS ".

**YOST AND GARDNER ENGINEERS**  
 2819 N. THIRD STREET  
 PHOENIX, ARIZONA 85004  
 PHONE: (602) 284-6424  
 FAX: (602) 277-6716

COVER SHEET

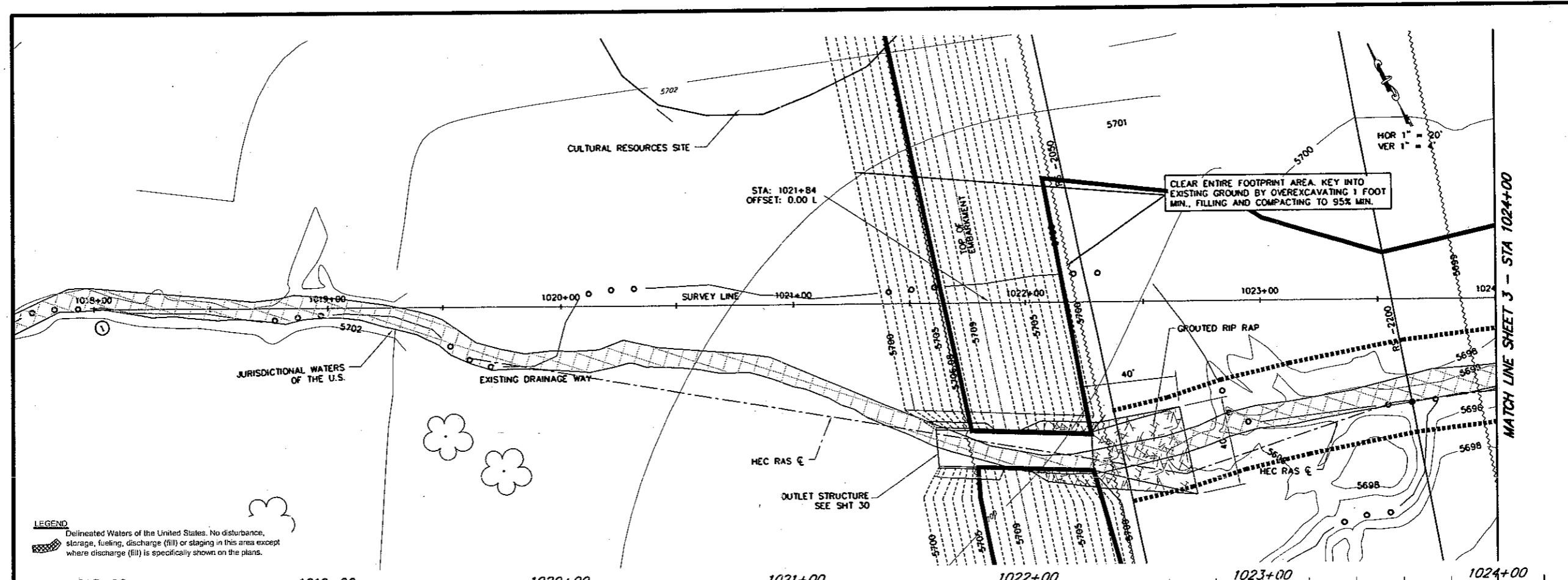
CONTENTS:

REVISIONS

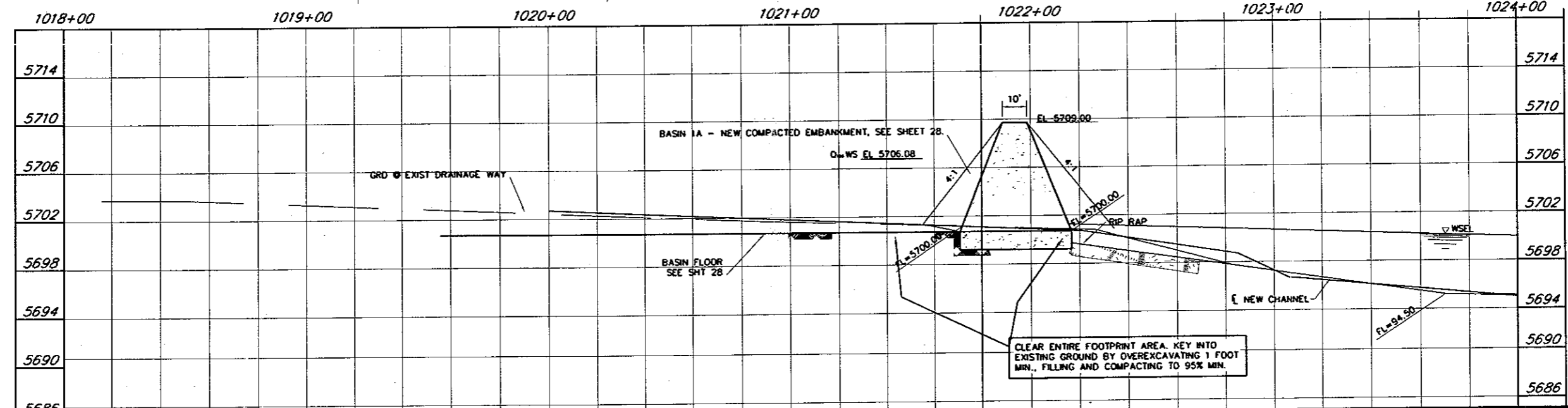


DRN BY: BR  
 CHKD BY: JEE  
 JOB NO.: 8569  
 DATE: JUN, 2006

SHEET NO.  
 1 OF 37



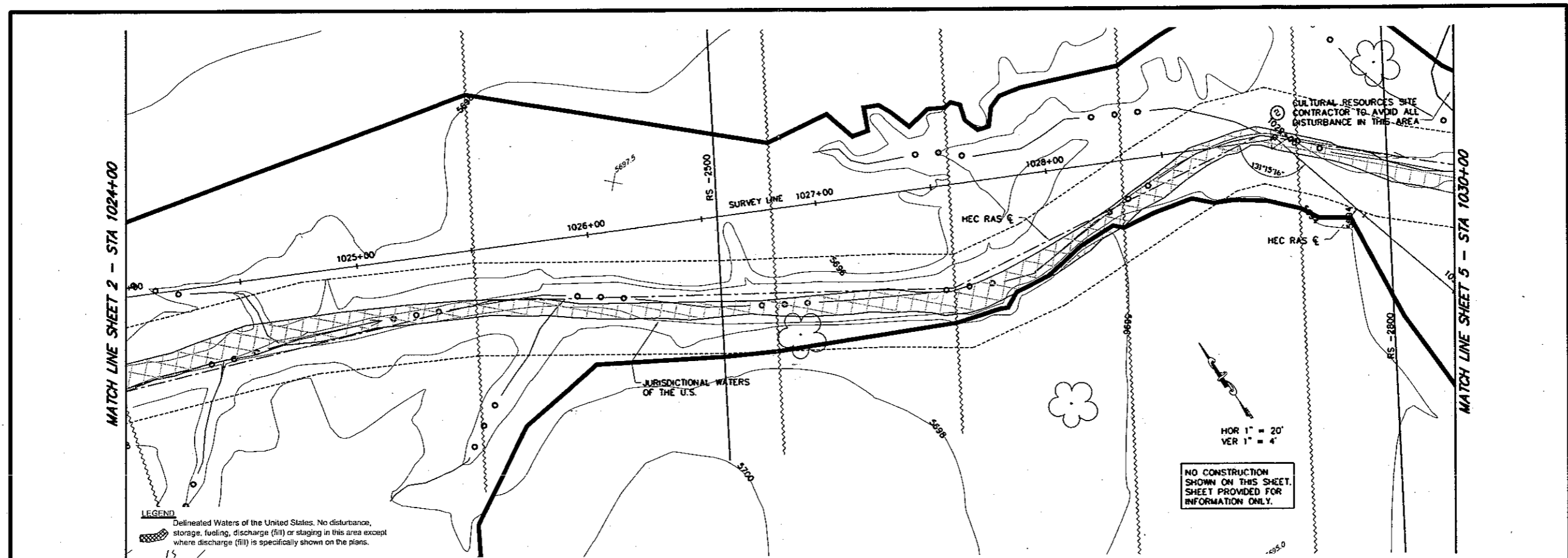
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	TOWN OF SNOWFLAKE, ARIZONA	
	SOUTHERN DRAINAGE SOLUTION STA 1018+00 - STA 1024+00	
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004	
	EXPRES 6/30/2010 DRAWN: BRVW/ CHECKED: CRS MAR, 2009 - JOB NO. 8569	

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



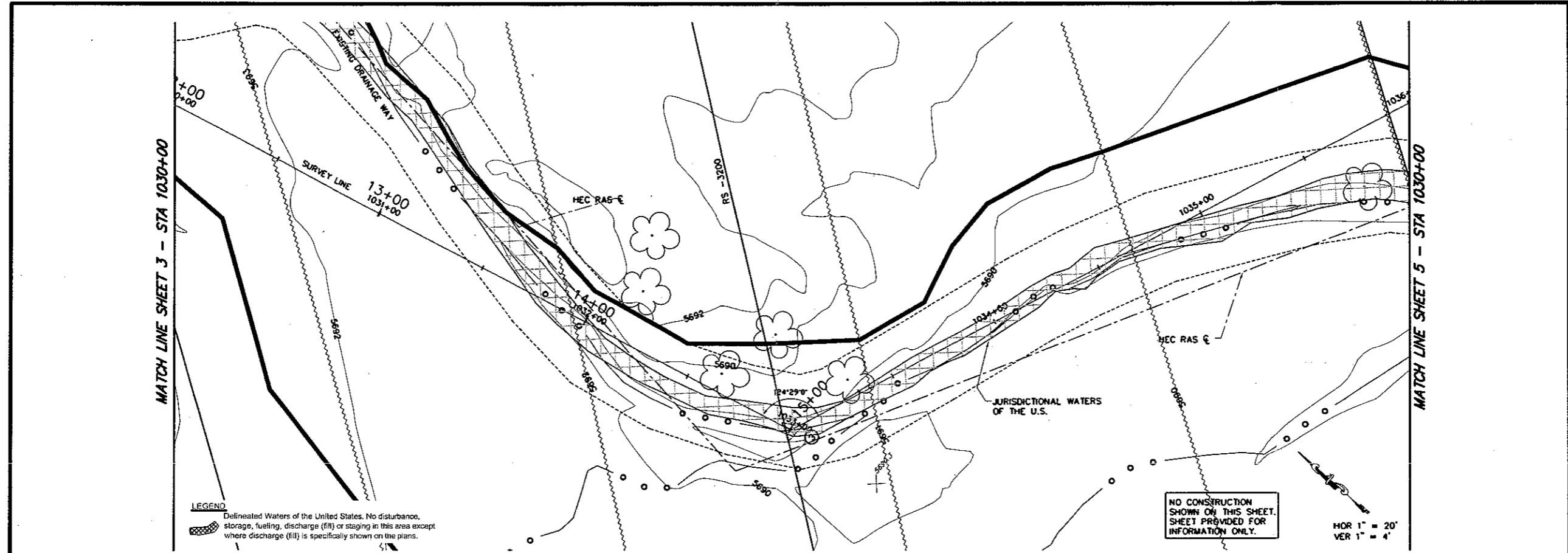
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5710							5710
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5702							5702
5698							5698
5694							5694
5690							5690
5686							5686
5682							
5678							

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	TOWN OF SNOWFLAKE, ARIZONA
	SOUTHERN DRAINAGE SOLUTION STA 1024+00 - STA 1030+00
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRW CHECKED: CRS MAR, 2009 - JOB NO. 8589

EXPRES 6/30/2010

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



1030+00	1031+00	1032+00	1033+00	1034+00	1035+00	1036+00
5706						5706
5702						5702
5698						5698
5694						5694
5690			WSEL			5690
5686				GRD @ EXIST DRAINAGE WAY		5686
5682						5682
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5670						5670

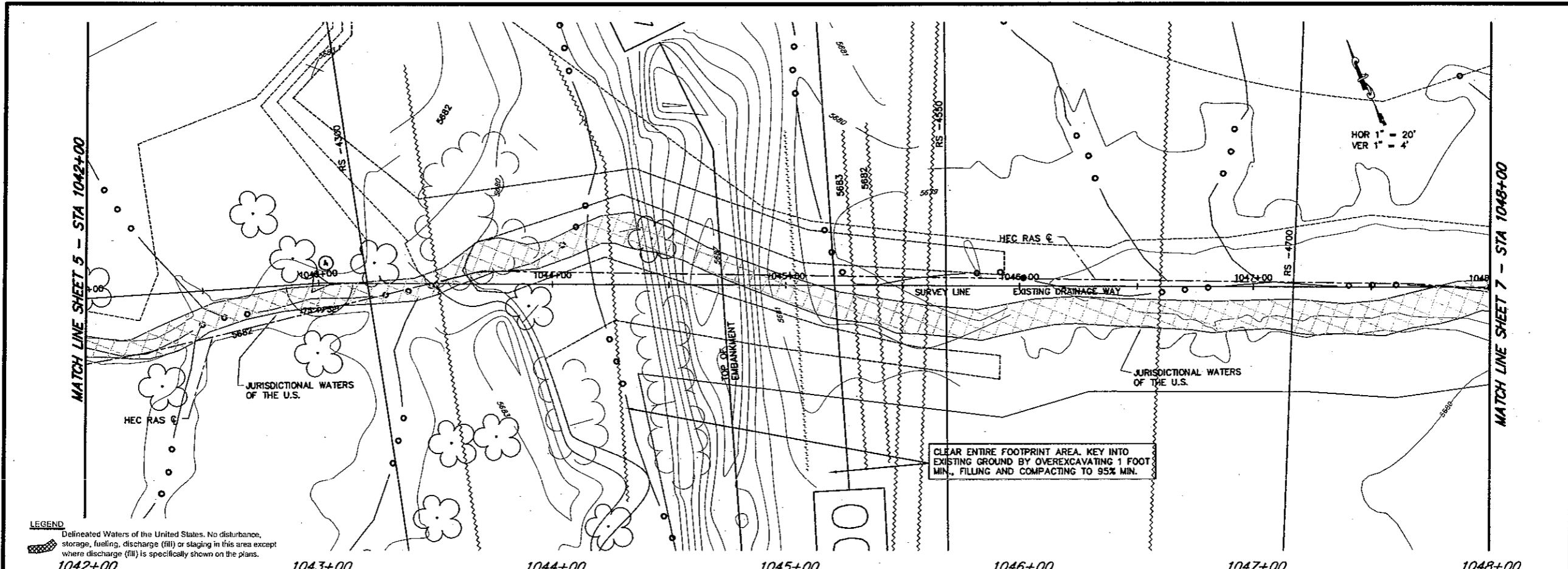
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	TOWN OF SNOWFLAKE, ARIZONA
	SOUTHERN DRAINAGE SOLUTION STA 1030+00 - STA 1036+00
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR, 2009 - JOB NO. 856

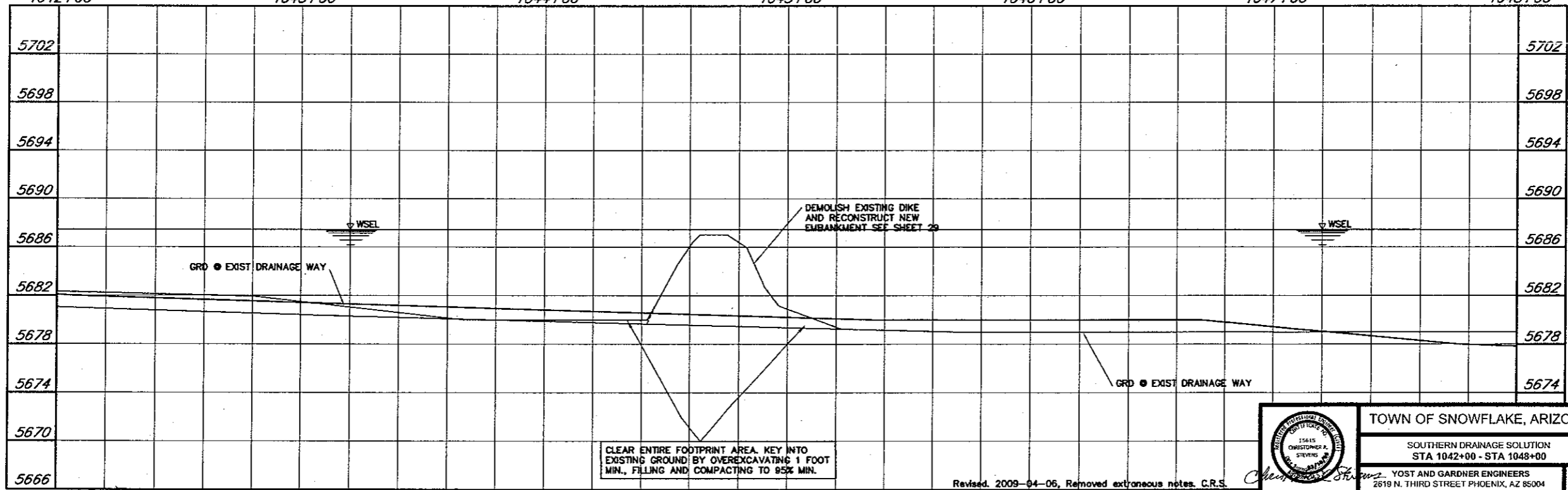
4/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'





**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.



CLEAR ENTIRE FOOTPRINT AREA. KEY INTO EXISTING GROUND BY OVEREXCAVATING 1 FOOT MIN., FILLING AND COMPACTING TO 95% MIN.

Revised: 2009-04-06, Removed extraneous notes. C.R.S.

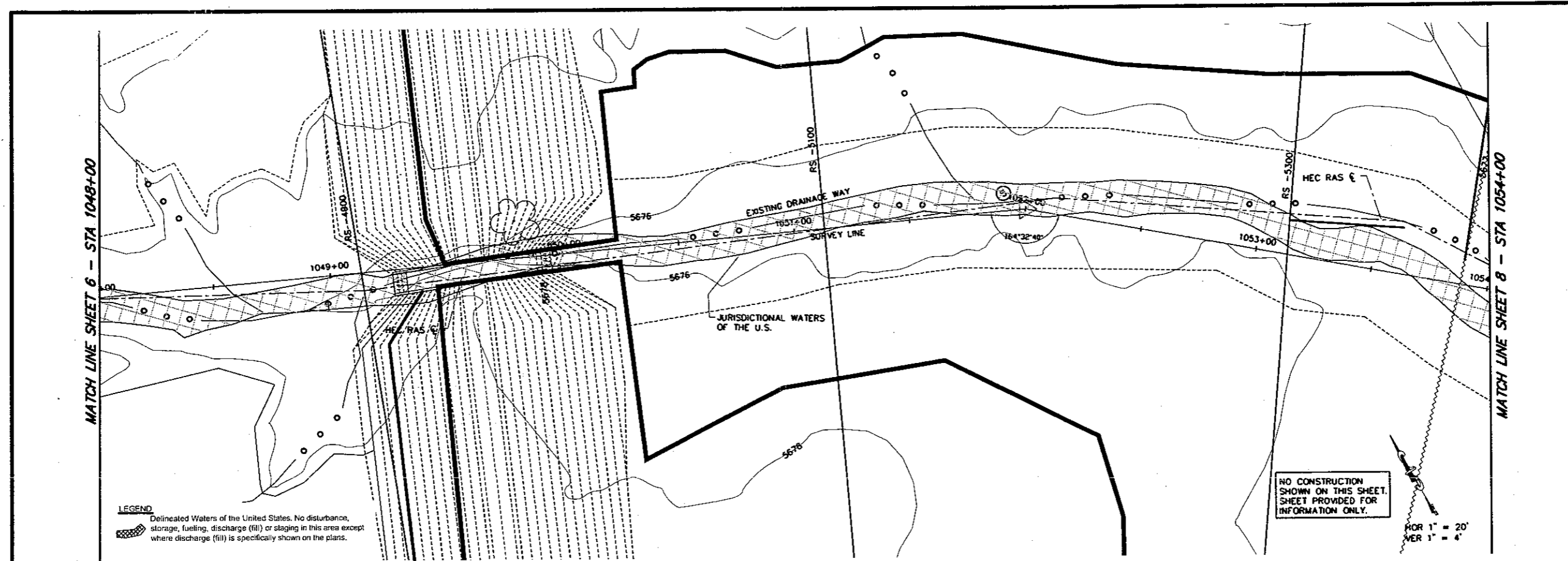


TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1042+00 - STA 1048+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRK/WY CHECKED: CRS MAR. 2009 - JOB NO. 8566

6/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

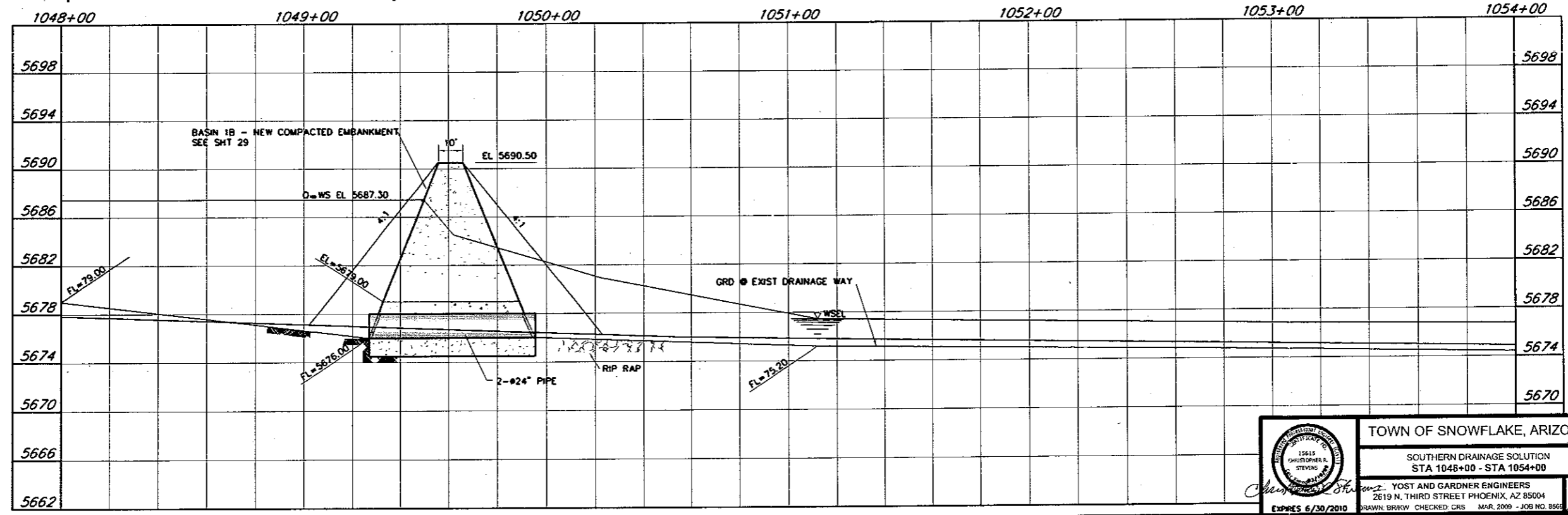
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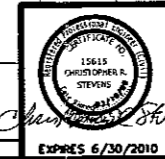
**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staking in this area except where discharge (fill) is specifically shown on the plans.

NO CONSTRUCTION SHOWN ON THIS SHEET. SHEET PROVIDED FOR INFORMATION ONLY.

HOR 1" = 20'  
 VERT 1" = 4'



Nov 11, 2009 - 11:27am  
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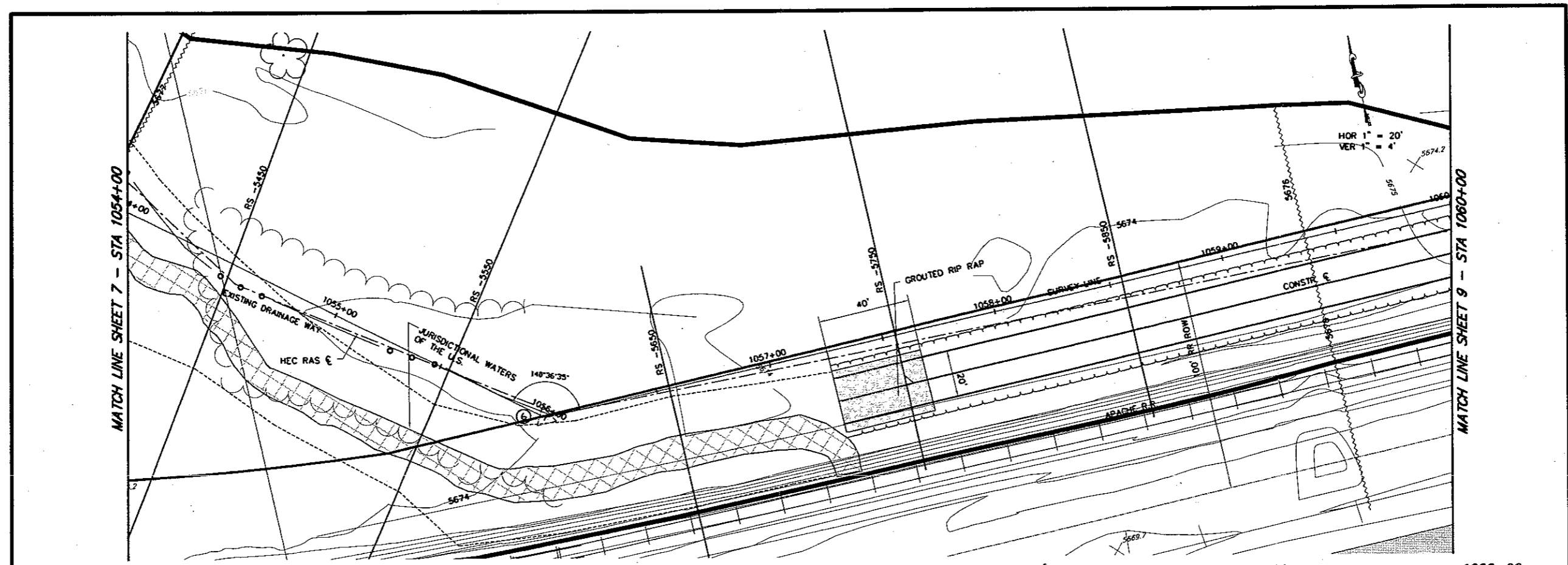


TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1048+00 - STA 1054+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 0562

7/37

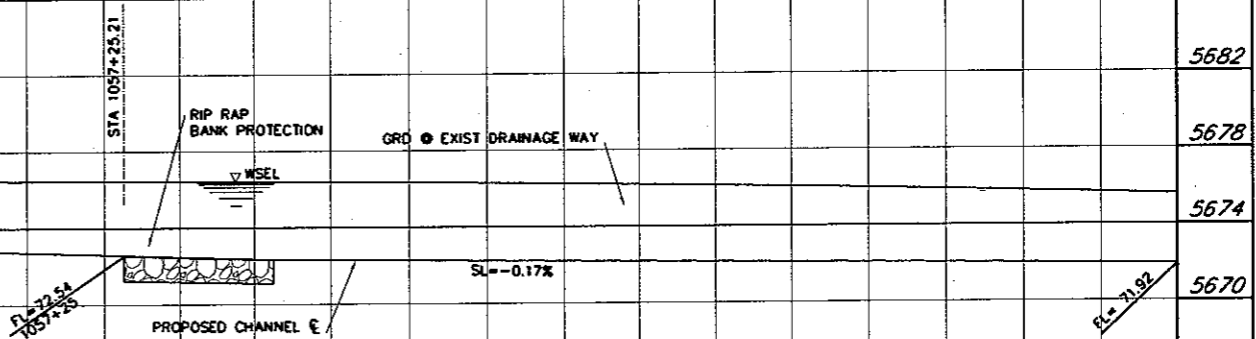
CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'





1054+00      1055+00      1056+00      1057+00      1058+00      1059+00      1060+00

5690										5690
5686										5686
5682										5682
5678										5678
5674										5674
5670										5670
5666										5666
5662										5662
5658										5658
5654										5654



**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

TOWN OF SNOWFLAKE, ARIZONA

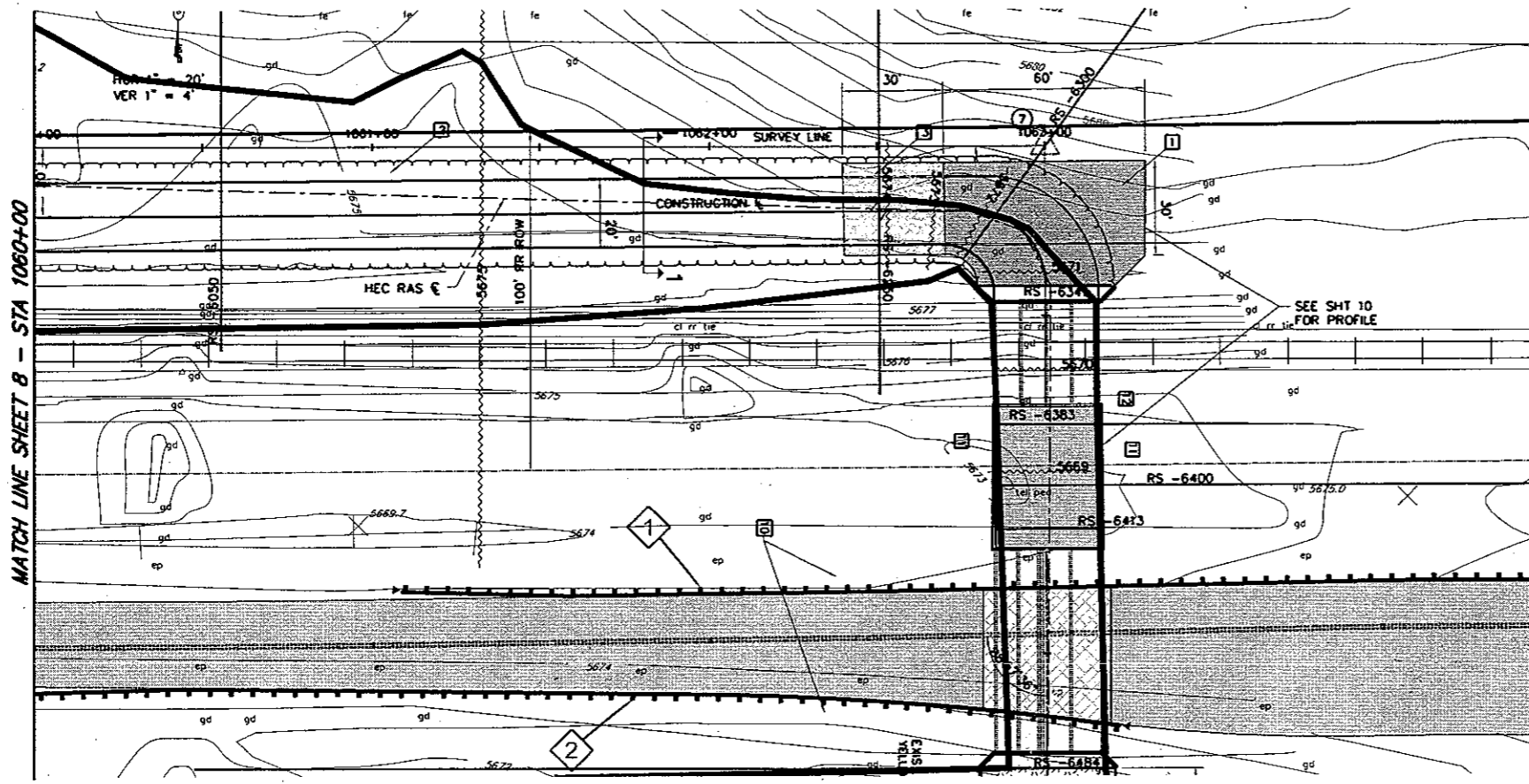
SOUTHERN DRAINAGE SOLUTION  
 STA 1054+00 - STA 1060+00

YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 EXPRES 6/30/2010 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 856

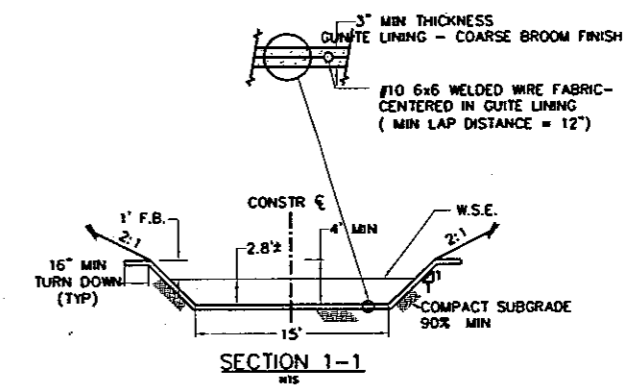
**8/37**

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

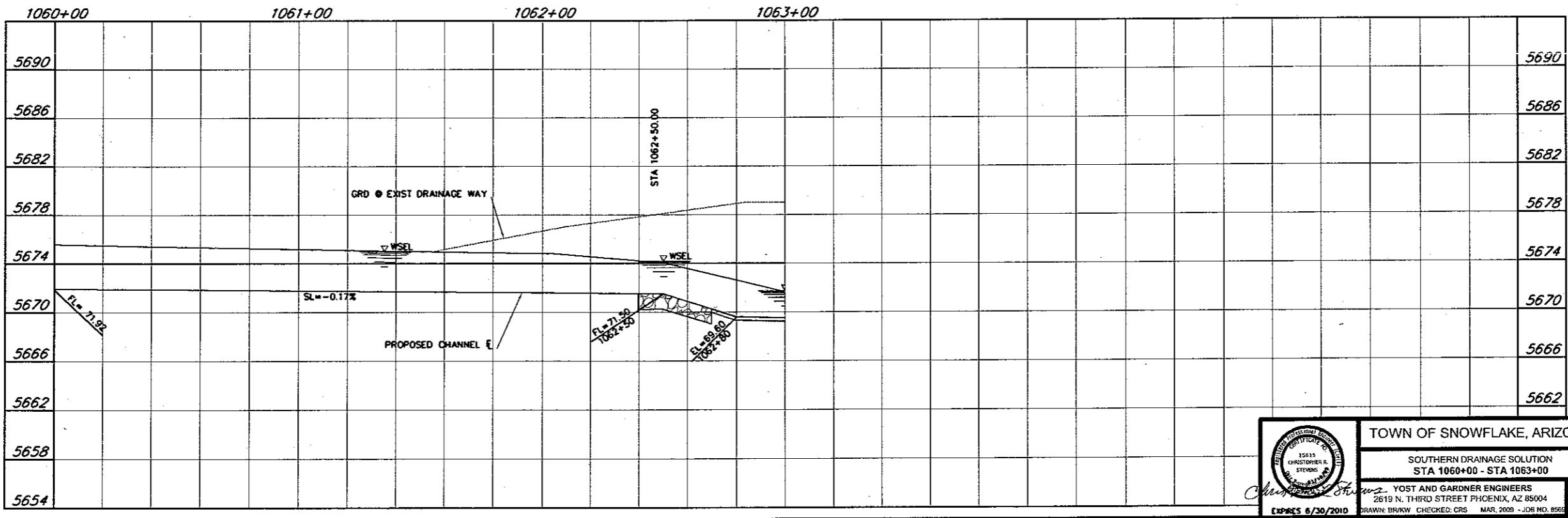
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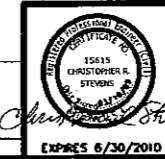
- CONSTRUCTION NOTES:**
- 1 GUNITE LINED DRAINAGE CHANNEL - SEE DTL SHT 10
  - 2 EARTHEN CHANNEL - BID ALTERNATE, PROVIDE GUNITE LINED CHANNEL - SEE DTL THIS SHT
  - 3 GROUTED RIP RAP -18" TYP.



CURVE TABLE				
CURVE	RADIUS	TANGENT	LENGTH	DELTA
C1	30.95	25.70	42.90	79°24'47"



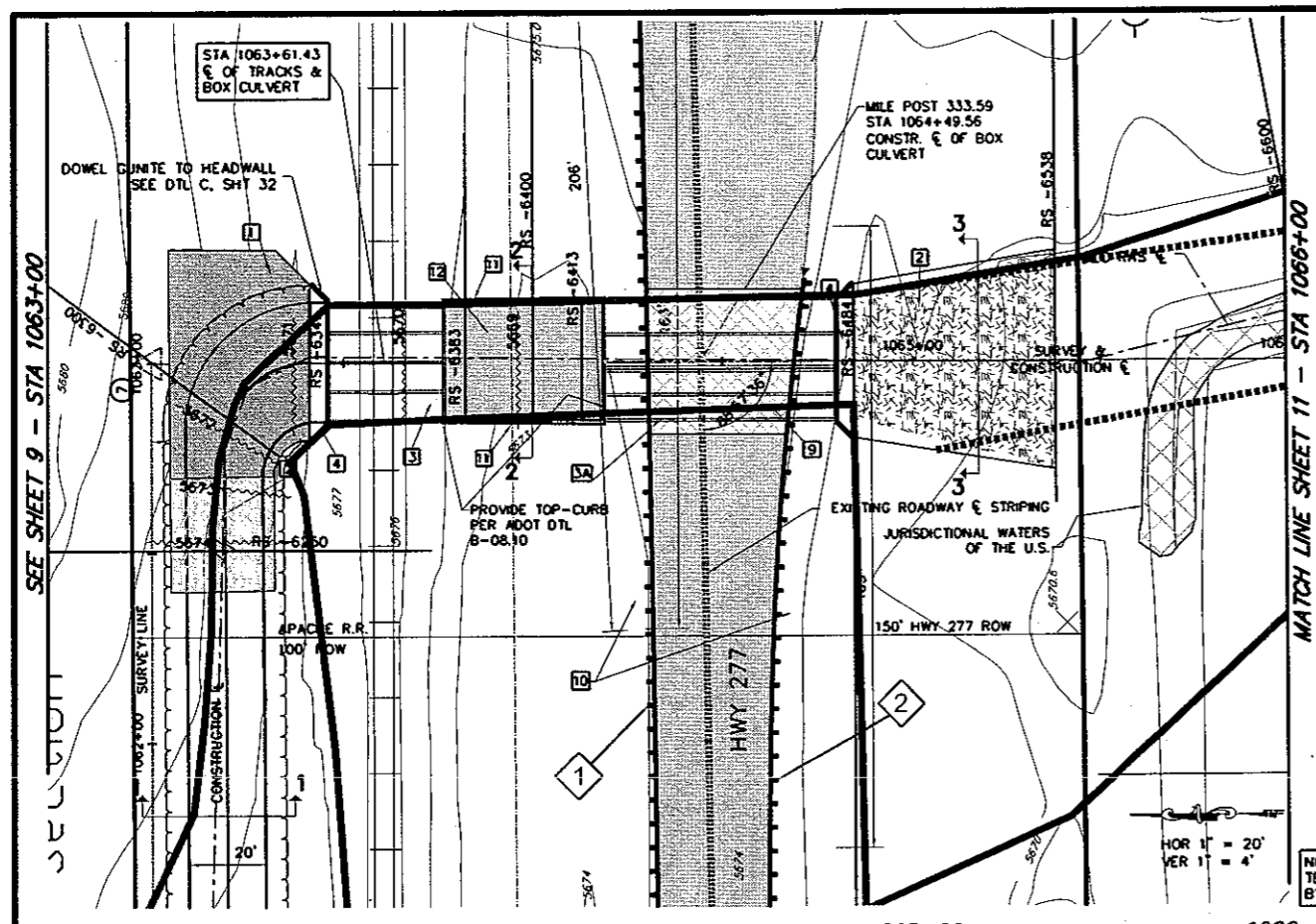
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TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1060+00 - STA 1063+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 EXP. 6/30/2010 DRAWN: BRW/KW CHECKED: CRS MAR. 2009 - JOB NO. 8504

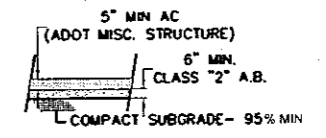
9/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

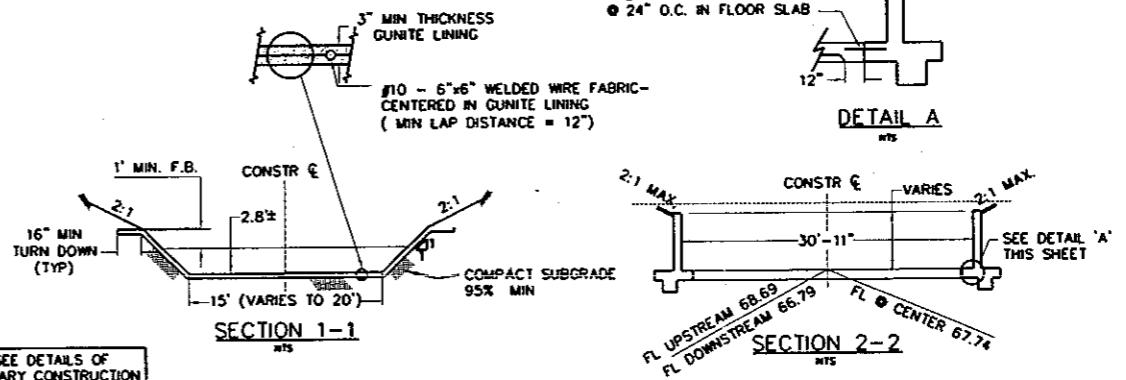


**CONSTRUCTION NOTES:**

- 1 GUNITE LINED DRAINAGE CHANNEL - SEE DTL THIS SHEET
- 2 GROUDED RIP RAP PER MAG DTL 555
- 3 CONCRETE BOX CULVERT - PER "MANUAL FOR RAILWAY ENGINEERING, CHAPTER 8, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION" - 4-BARREL 7' (WIDTH) x 3' (HEIGHT). SEE DTLS SHEET 33.
- 3A CONCRETE BOX CULVERT - 4-BARREL (2-6'x3' AND 2-8'x3') PER ADOT STD DWG NO B-02.10 - LENGTH AS SHOWN. INLET WING WALLS DELETED - SEE DTLS SHT 32. (BID ALTERNATE NO. ONE - PRECAST BOX CULVERT).
- 4 INLET, OUTLET LEVEL WINGS PER ADOT STD DWG NO B-08.10. SEE SHT 32.
- 9 SAWCUT, REMOVE AND REPLACE EXIST A.C. PAVT. SEE DETAIL THIS SHEET.
- 10 TYPE 'A' GUARDRAIL PER ADOT STD DWG NO C-10.02. 50' ET-PLUS HBA POSTS AT END.
- 11 CANTILEVER RETAINING WALL PER ADOT STD DWG NO B-18.10. SEE SHT 30.
- 12 8" THICK SLAB, ADOT CLASS S CONCRETE. REINFORCE WITH #4 @ 8" EACH WAY. THICKEN EDGE AT RETAINING WALL PER DETAIL A, THIS SHEET AND AT CULVERTS PER DETAIL B. SEE SHT 32.



**ASPHALT REPLACEMENT**



NOTE: SEE DETAILS OF TEMPORARY CONSTRUCTION BYPASS - SHEET 33

Station	Notes	Station	Notes	Station	Notes	Station	Notes
1063+00		1064+00		1065+00		1066+00	
5690	APACHE RR ROW						5690
5686							5686
5682							5682
5678	NEW BOX CULVERT						5678
5674	NEW CHANNEL BOTTOM						5674
5670	GRD @ EXIST DRAINAGE WAY						5670
5666	GROUDED RIPRAP						5666
5662	PROPOSED CHANNEL						5662
5658							5658
5654							5654

**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

**TOWN OF SNOWFLAKE, ARIZONA**

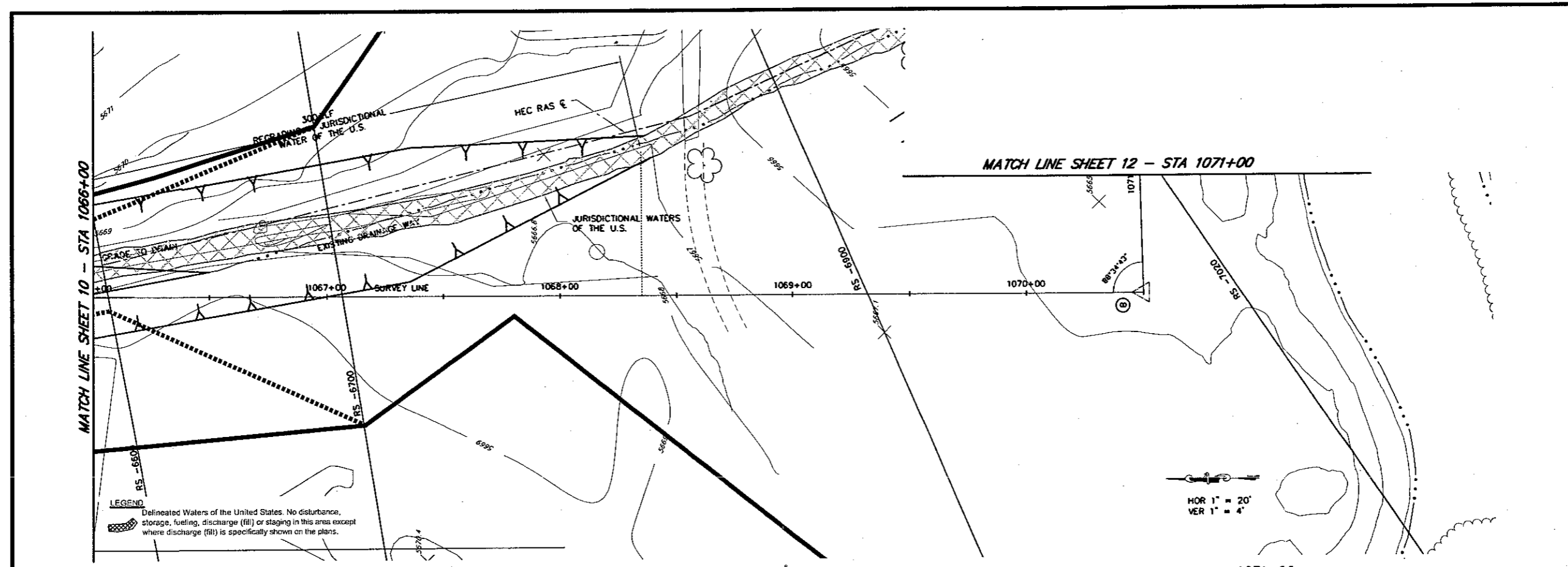
SOUTHERN DRAINAGE SOLUTION  
 STA 1063+00 - STA 1066+00

YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN BRKW CHECKED CRS MAR. 2009 - JOB NO. 8563

10/37

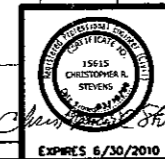
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Apr 11 2009 - 12:32pm  
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1066+00	1067+00	1068+00	1069+00	1070+00	1071+00	
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5702						5702
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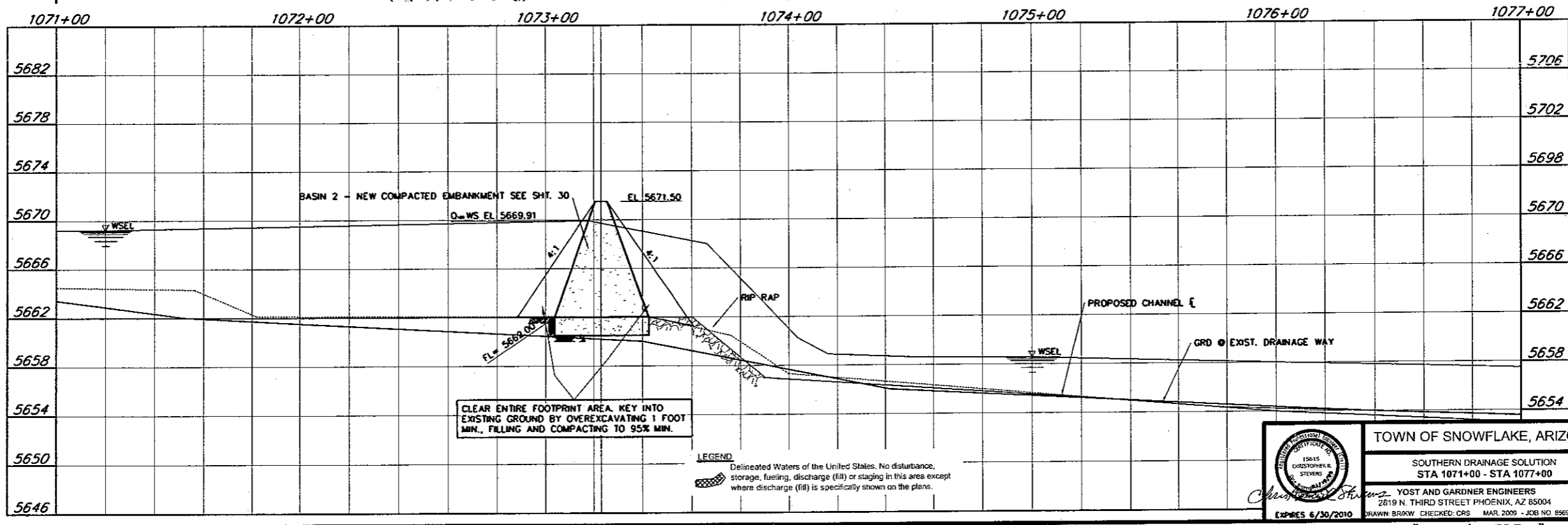
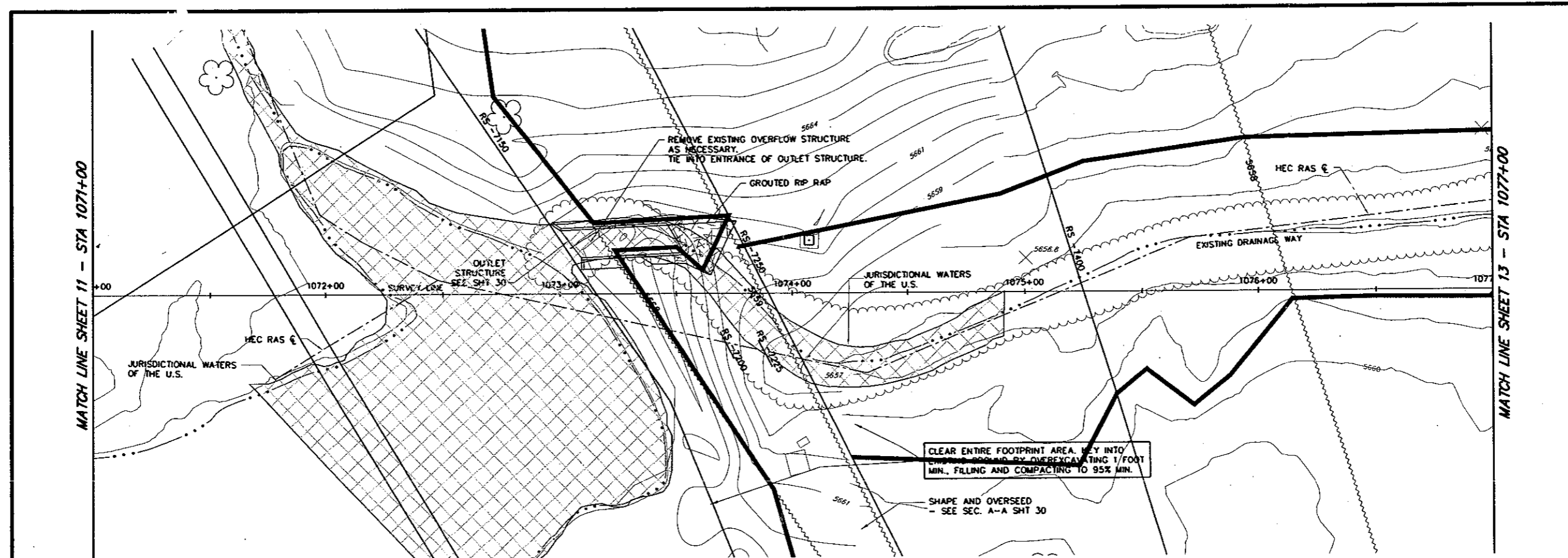
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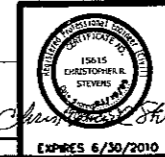
TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1066+00 - STA 1071+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BROWX CHECKED: CJS MAR. 2009 - JOB NO. 8562

11/37

CLOMR SUBMITTAL. REDUCED-SCALE: HOR: 1" = 50', VERT 1" = 10'



**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

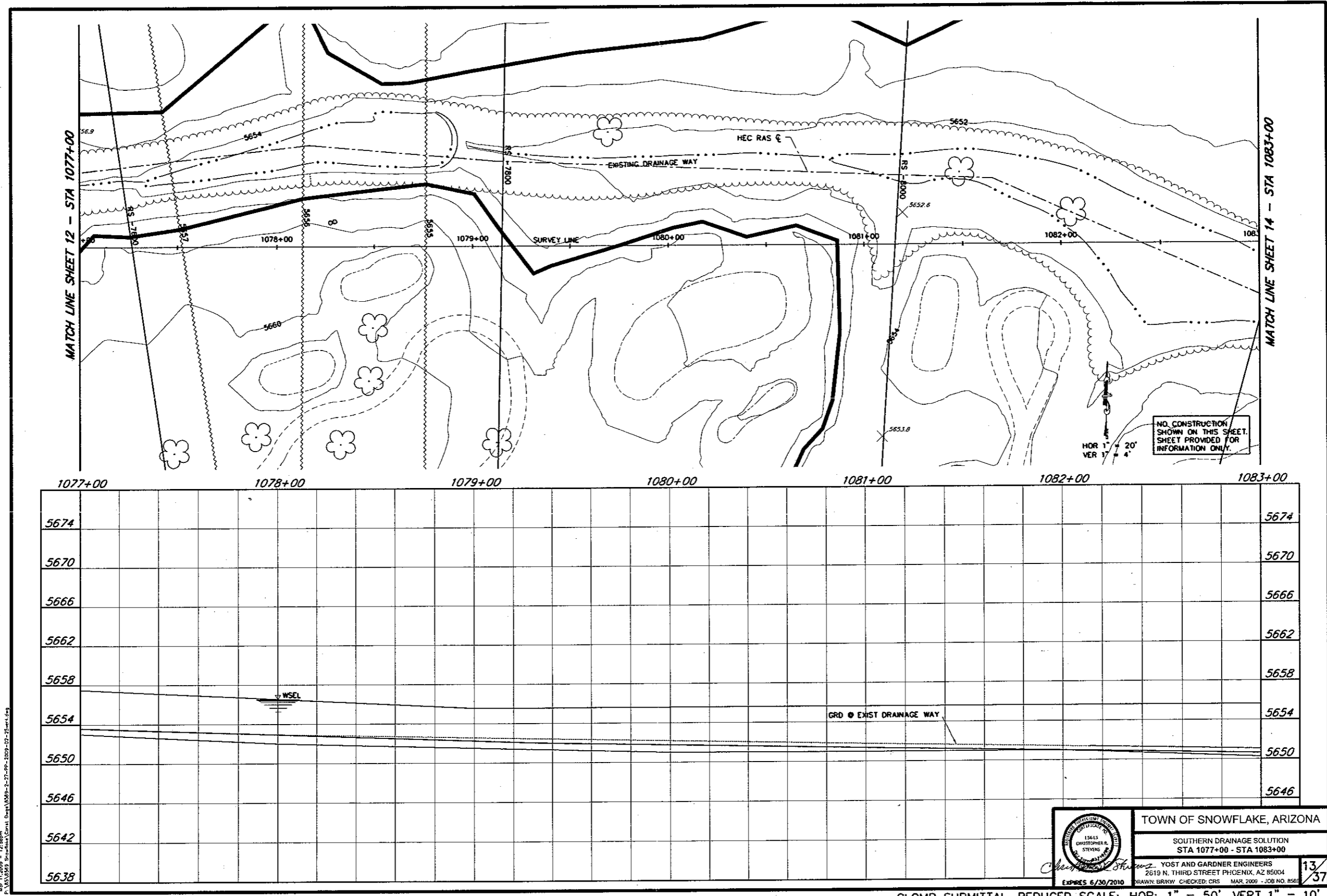


TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1071+00 - STA 1077+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRW, CHECKED: CRS, MAR. 2009 - JOB NO. 8561

12/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

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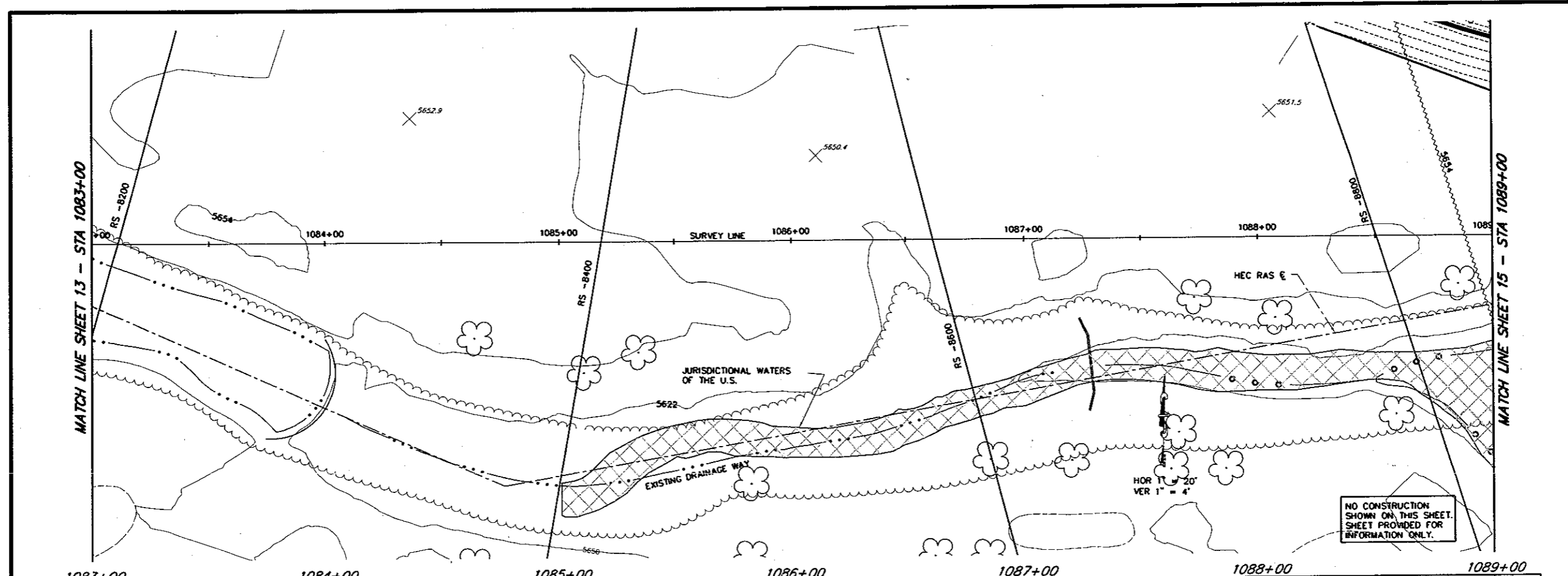


	1077+00	1078+00	1079+00	1080+00	1081+00	1082+00	1083+00
5674							5674
5670							5670
5666							5666
5662							5662
5658							5658
5654		WSEL			GRD @ EXIST DRAINAGE WAY		5654
5650							5650
5646							5646
5642							
5638							

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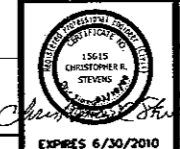
	TOWN OF SNOWFLAKE, ARIZONA
	SOUTHERN DRAINAGE SOLUTION STA 1077+00 - STA 1083+00
YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 <small>EXP. 6/30/2010</small>	13/37 <small>DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 856</small>

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



1083+00	1084+00	1085+00	1086+00	1087+00	1088+00	1089+00
5674						5674
5670						5670
5666						5666
5662						5662
5658						5658
5654						5654
5650						5650
5646						5646
5642						
5638						

GRD EXIST DRAINAGE WAY  
 PROPOSED CHANNEL  
**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

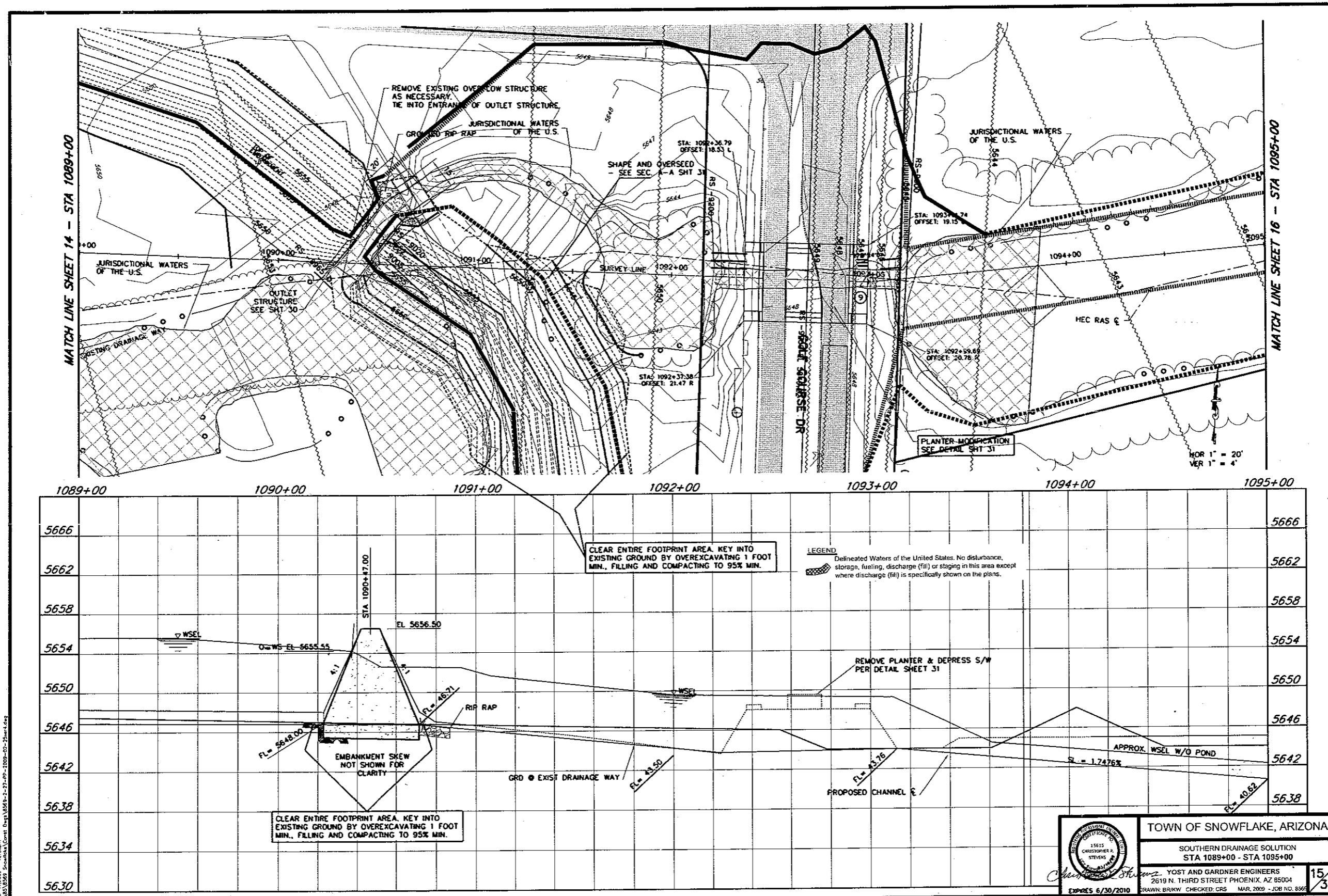


TOWN OF SNOWFLAKE, ARIZONA  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1083+00 - STA 1089+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BR/KW CHECKED: CRS MAR. 2009 - JOB NO. 8565

14/37

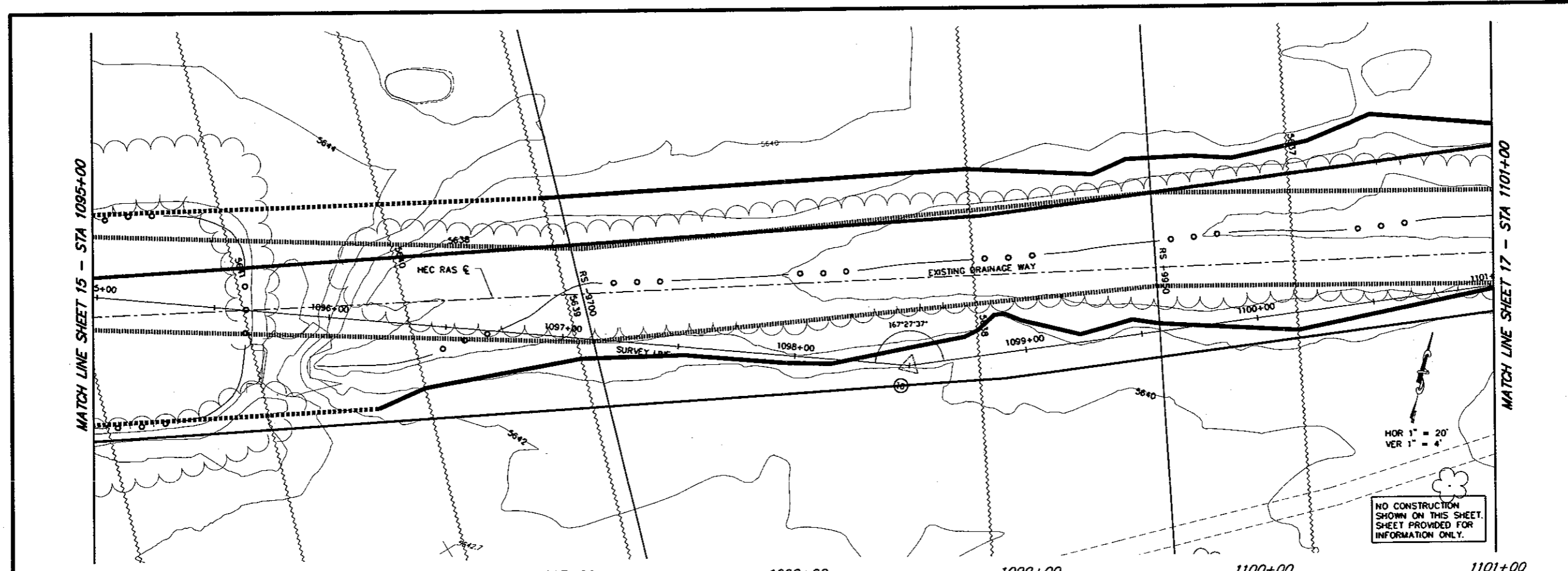
CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

Apr 11, 2009 - 12:56pm  
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CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'





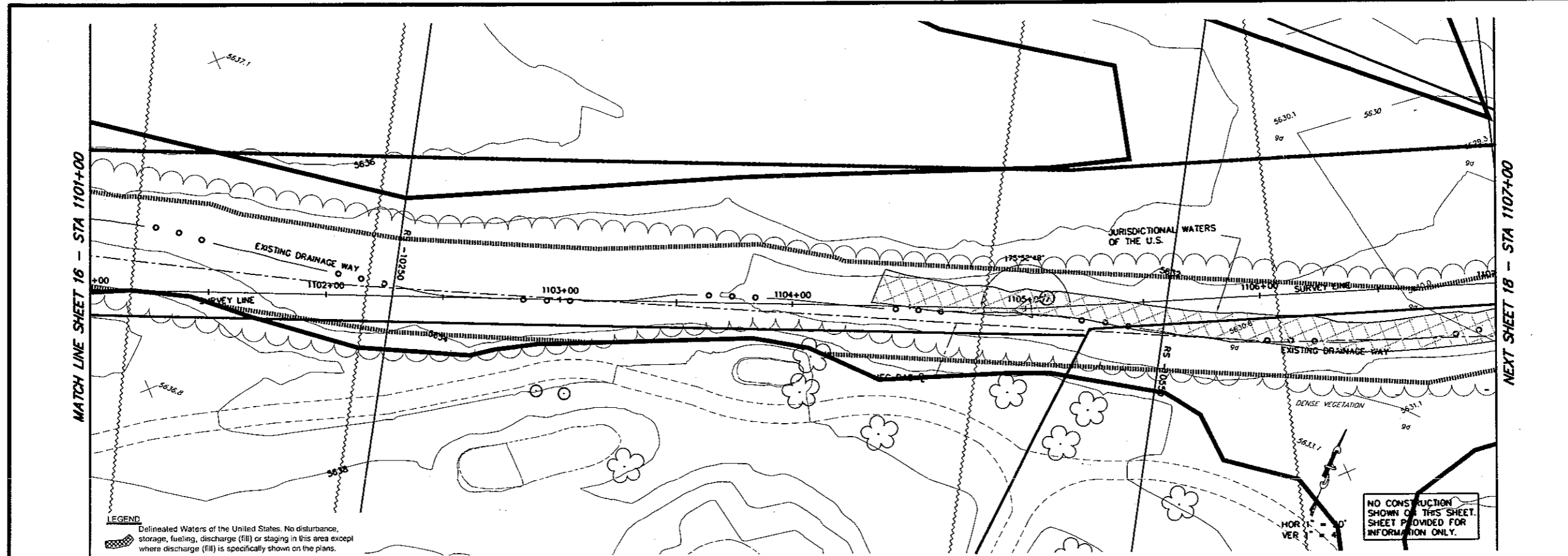
1095+00	1096+00	1097+00	1098+00	1099+00	1100+00	1101+00
5454						5454
5650						5650
5646						5646
5642	APPROX. WSEL W/O POND					5642
5638	SL = 1.74.76%	WSEL				5638
5634	R = 40.83	R = 37.00	SL = -1.00%		WSEL	5634
5630			GRD @ EXIST DRAINAGE WAY		SL = -0.6027%	5630
5626						5626
5622						5622
5618						5618

Mar 11 2009 11:15 AM  
 P:\A\2589 - Snowflake\Cont 0.dwg\0808-2-17-pp-2009-07-25.dwg

	TOWN OF SNOWFLAKE, ARIZONA
	SOUTHERN DRAINAGE SOLUTION STA 1095+00 - STA 1101+00
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR 2009 - JOB NO. 8568

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

16/37



MATCH LINE SHEET 16 - STA 1101+00

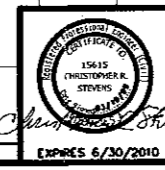
NEXT SHEET 18 - STA 1107+00

**LEGEND**  
 Delineated Waters of the United States. No disturbances, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

NO CONSTRUCTION SHOWN ON THIS SHEET. SHEET PROVIDED FOR INFORMATION ONLY.

	1101+00	1102+00	1103+00	1104+00	1105+00	1106+00	1107+00
5654							5654
5650							5650
5646							5646
5642							5642
5638							5638
5634							5634
5630							5630
5626							5626
5622							
5618							

Mar 11, 2009 - 11:00am  
 P:\55187555 - Bencok\1\Draw\1\55187555-2-27-09-07-25.mxd



**TOWN OF SNOWFLAKE, ARIZONA**  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1101+00 - STA 1107+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRADY CHECKED: CRS MAR. 2009 - JOB NO. 8560

17/37

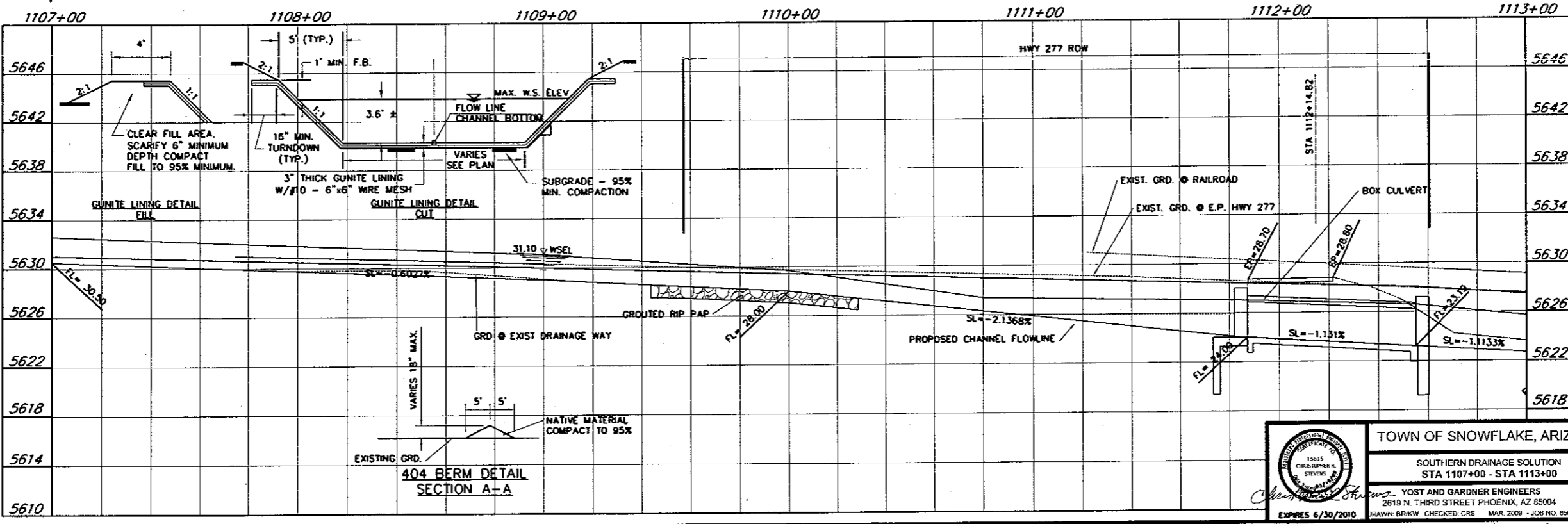
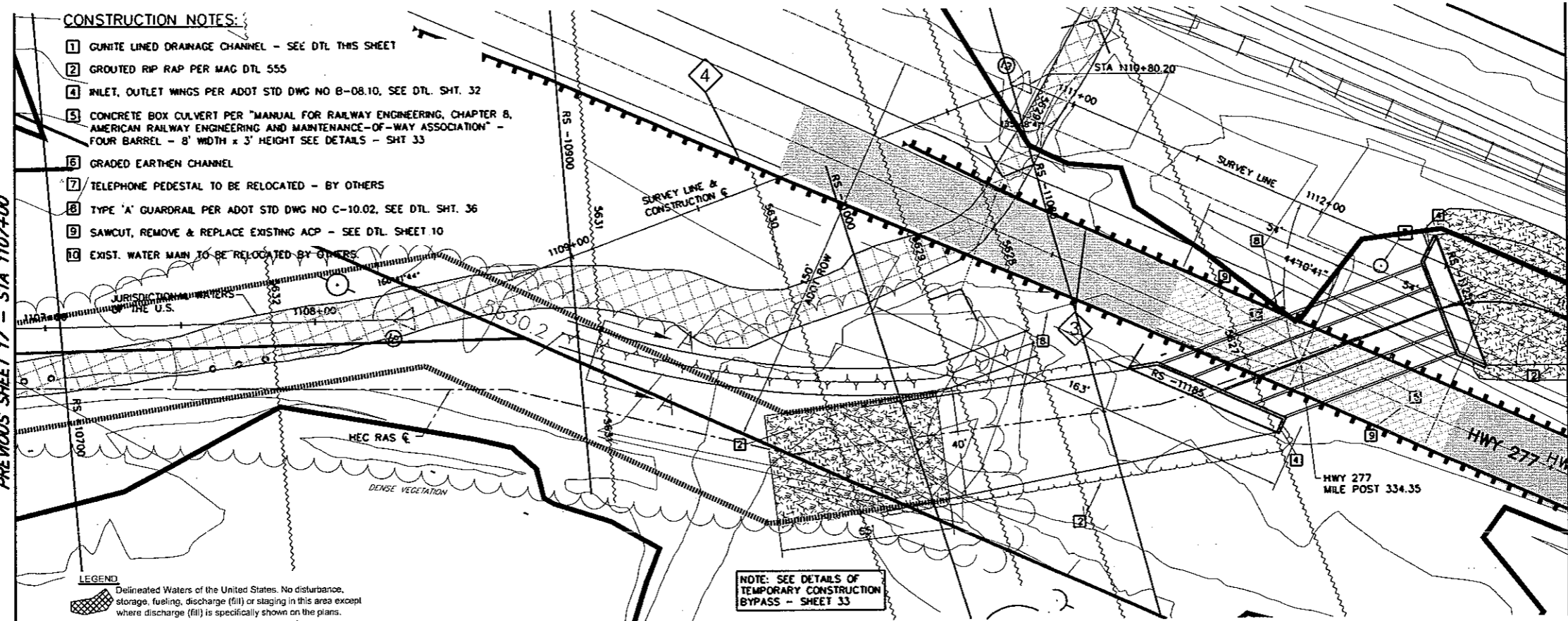
CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

**CONSTRUCTION NOTES:**

- 1 GUNITE LINED DRAINAGE CHANNEL - SEE DTL THIS SHEET
- 2 GROUDED RIP RAP PER MAG DTL 555
- 4 INLET, OUTLET WINGS PER ADOT STD DWG NO B-08.10, SEE DTL SHT. 32
- 5 CONCRETE BOX CULVERT PER "MANUAL FOR RAILWAY ENGINEERING, CHAPTER B, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION" - FOUR BARREL - 8' WIDTH x 3' HEIGHT SEE DETAILS - SHT 33
- 6 GRADED EARTHEN CHANNEL
- 7 TELEPHONE PEDESTAL TO BE RELOCATED - BY OTHERS
- 8 TYPE 'A' GUARDRAIL PER ADOT STD DWG NO C-10.02, SEE DTL SHT. 36
- 9 SAWCUT, REMOVE & REPLACE EXISTING ACP - SEE DTL SHEET 10
- 10 EXIST. WATER MAIN TO BE RELOCATED BY OTHERS

PREVIOUS SHEET 17 - STA 1107+00

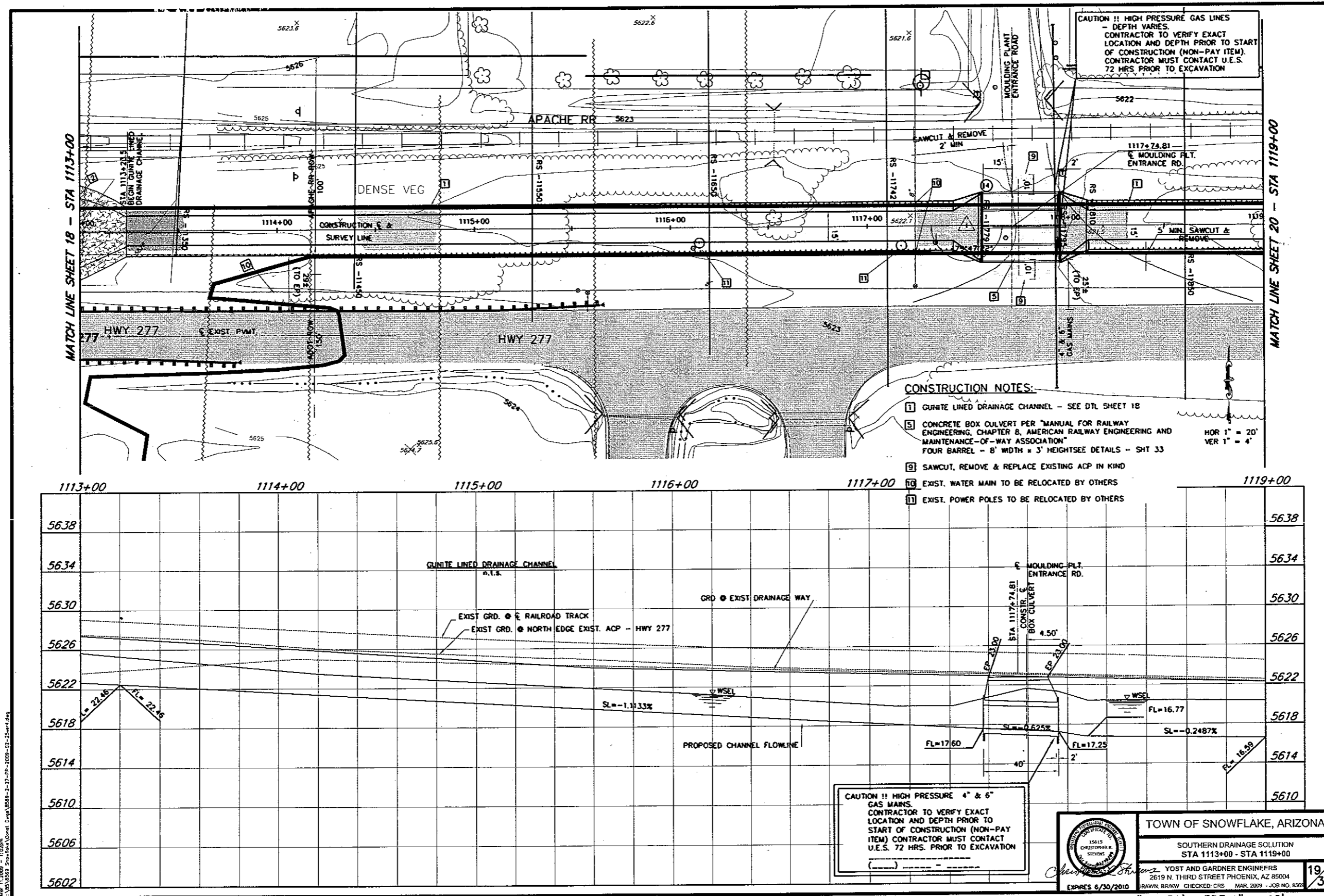
MATCH LINE SHEET 19 - STA 1113+00



	TOWN OF SNOWFLAKE, ARIZONA	
	SOUTHERN DRAINAGE SOLUTION STA 1107+00 - STA 1113+00	
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 0550	

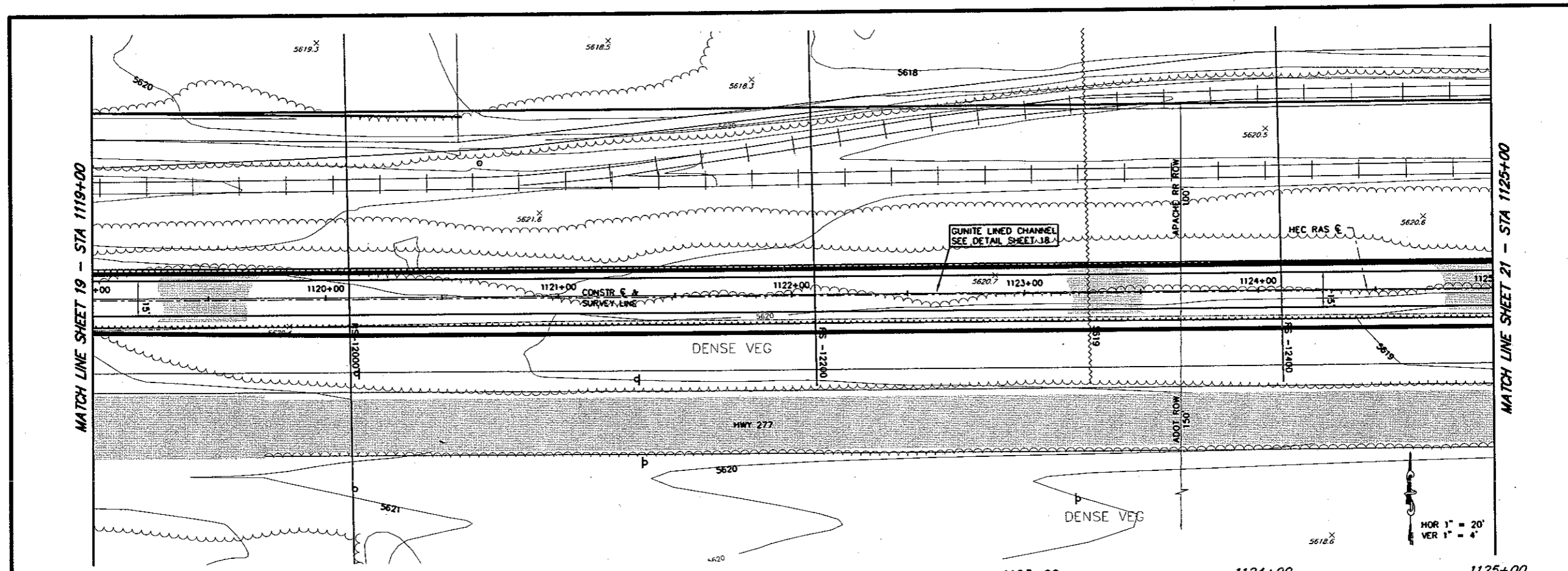
CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

Mar 11 2009 1:00pm  
 P:\V\1057 Snowflake\Draw\Draw\1107-1113.dwg  
 1107-1113.dwg



Mar 11, 2009 1:07PM  
 P:\V\10559 Snowflake\Consol Draw\MSD-2-27-PP-2009-02-25.dwg

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



Station	1119+00	1120+00	1121+00	1122+00	1123+00	1124+00	1125+00
5630							5630
5626							5626
5622							5622
5618							5618
5614							5614
5610							5610
5606							5606
5602							5602
5598							
5594							

GRD ● EXIST DRAINAGE WAY  
 EXIST GRD. ● RAILROAD TRACK  
 EXIST GRD. ● NORTH EDGE HWY 277  
 PROPOSED CHANNEL E  
 SL = -0.2487%

Mar 11, 2009 - 1:02pm  
 P:\2009\0360\_Snowflake\Const\Draw\0360-2-27-09-00-25.dwg

CHRISTOPHER R. STEVENS  
 LICENSE NO. 15615  
 STATE OF ARIZONA

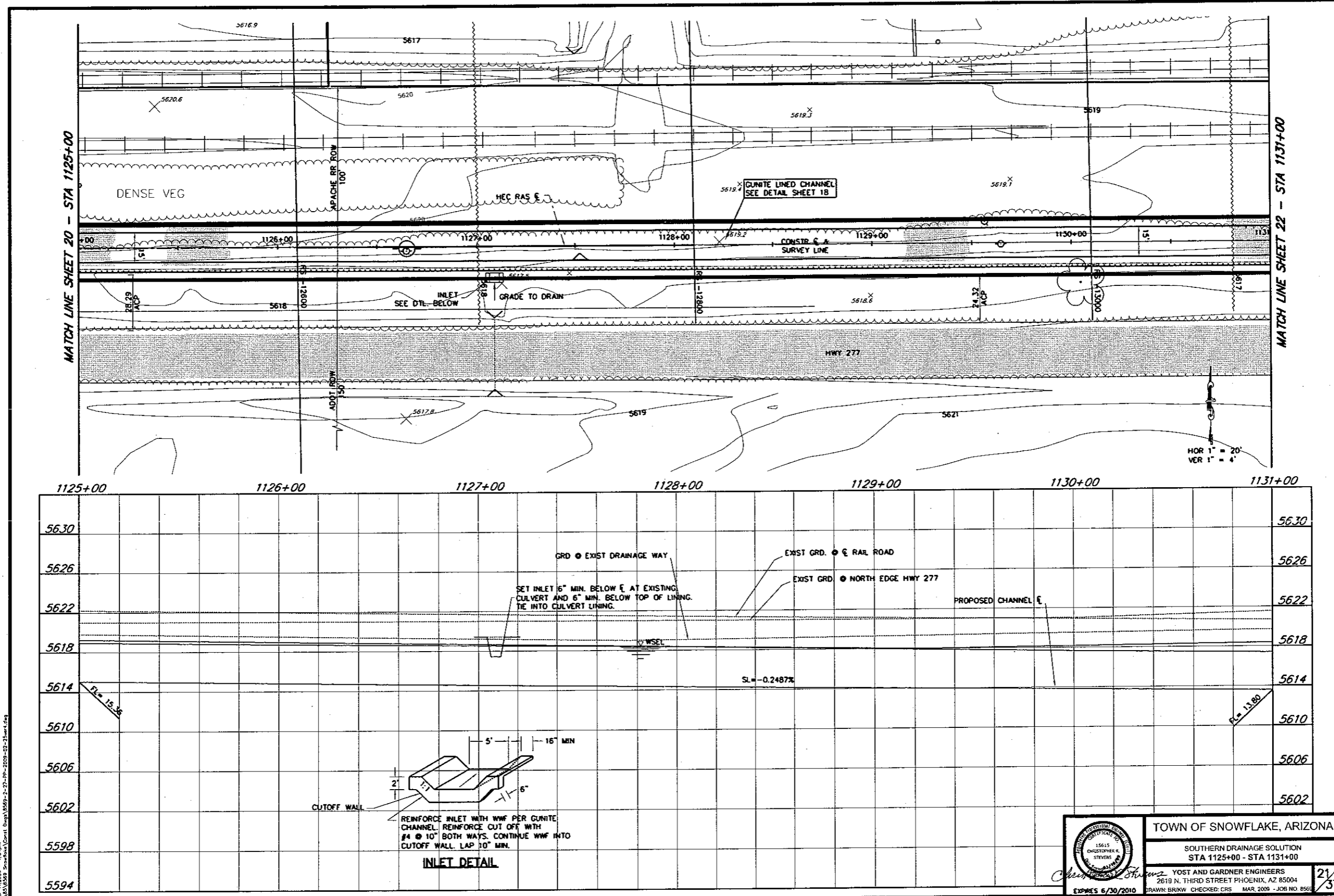
**TOWN OF SNOWFLAKE, ARIZONA**

SOUTHERN DRAINAGE SOLUTION  
 STA 1119+00 - STA 1125+00

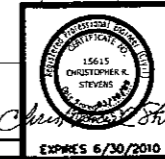
YOST AND GARDNER ENGINEERS  
 2819 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRW/CJS CHECKED: CRS MAR 2009 - JOB NO. 8566

20/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



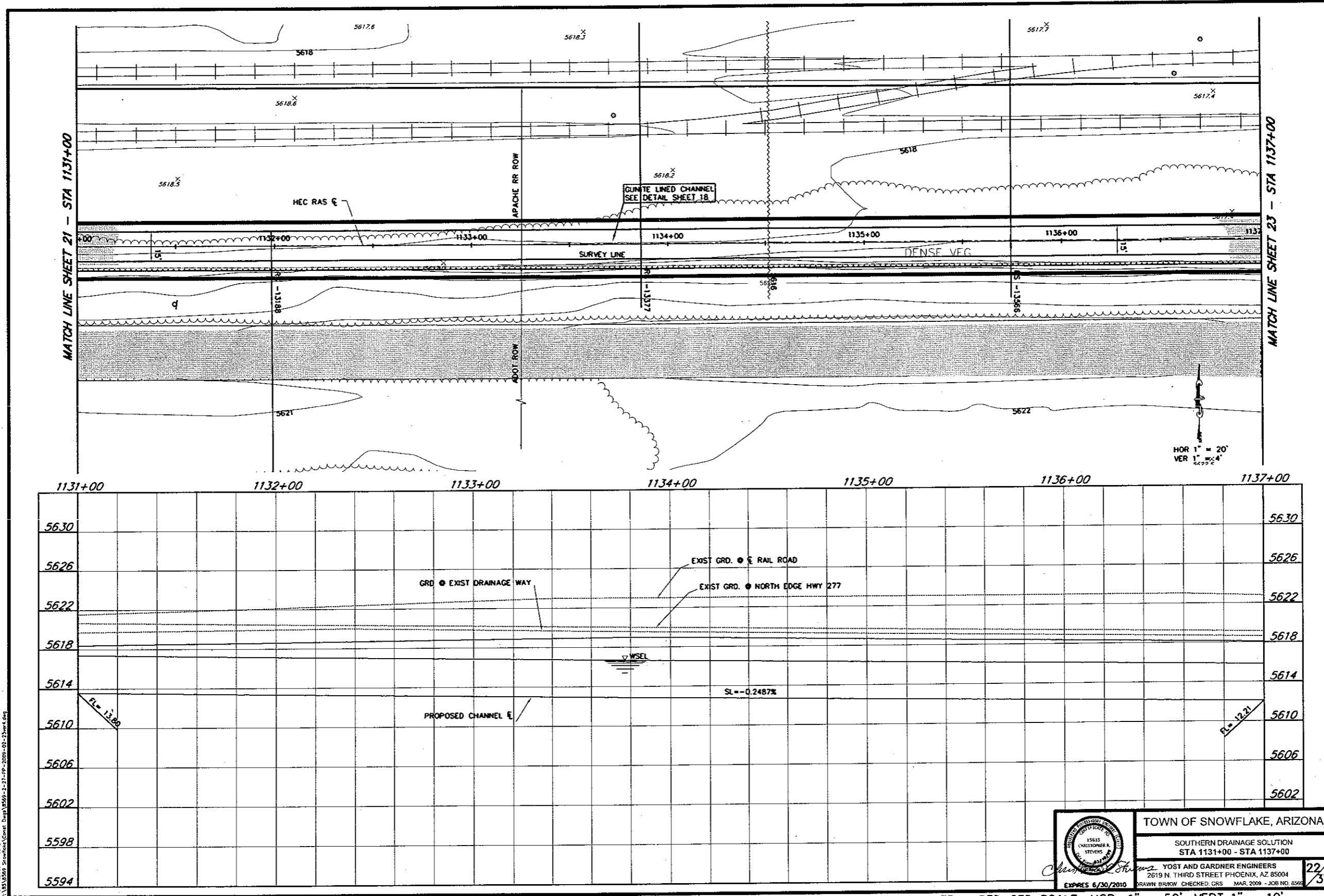
Mar 11, 2009 - 1:04pm  
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**TOWN OF SNOWFLAKE, ARIZONA**  
 SOUTHERN DRAINAGE SOLUTION  
 STA 1125+00 - STA 1131+00  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRAKW CHECKED: CRS MAR. 2009 - JOB NO. 856

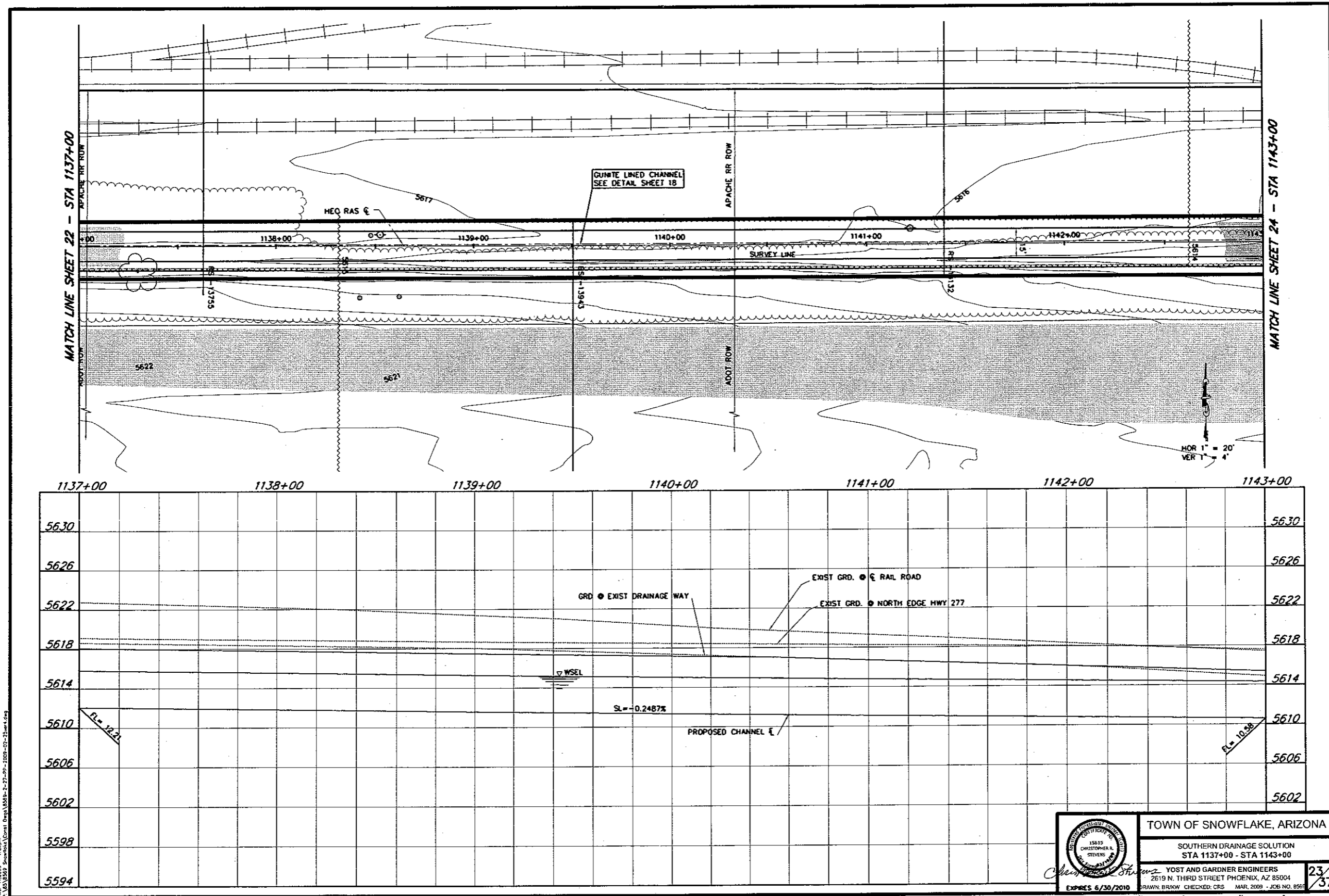
21/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



Mar. 11, 2009 - 1:04pm  
 P:\03\8566\_Snowflake\Drawn\Drawn\8566-2-27.dwg - 2009-03-27 1:04pm

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



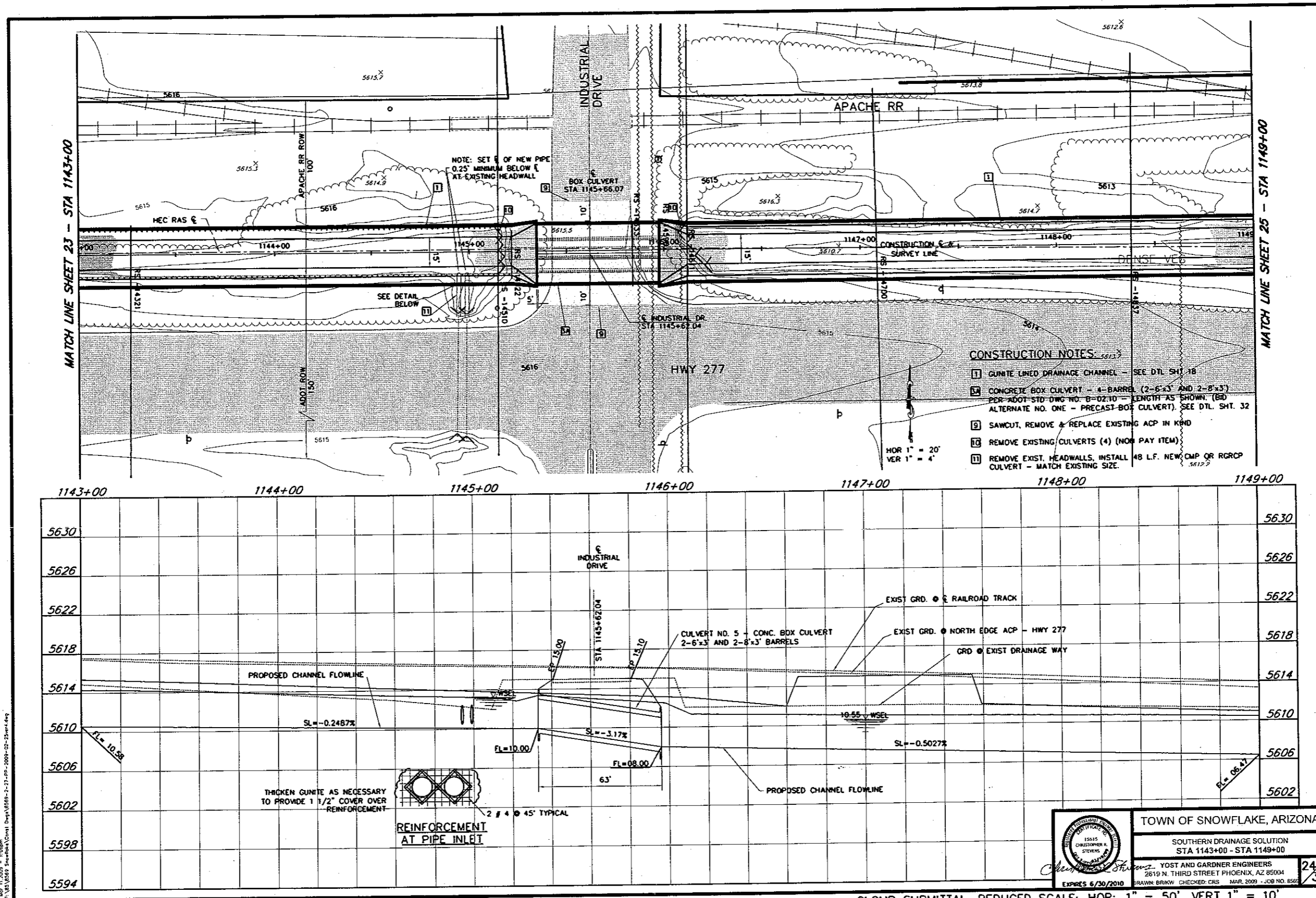
Apr. 11, 2009 - 1:06pm  
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	<b>TOWN OF SNOWFLAKE, ARIZONA</b>	
	SOUTHERN DRAINAGE SOLUTION STA 1137+00 - STA 1143+00	
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 0560	

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

23/37



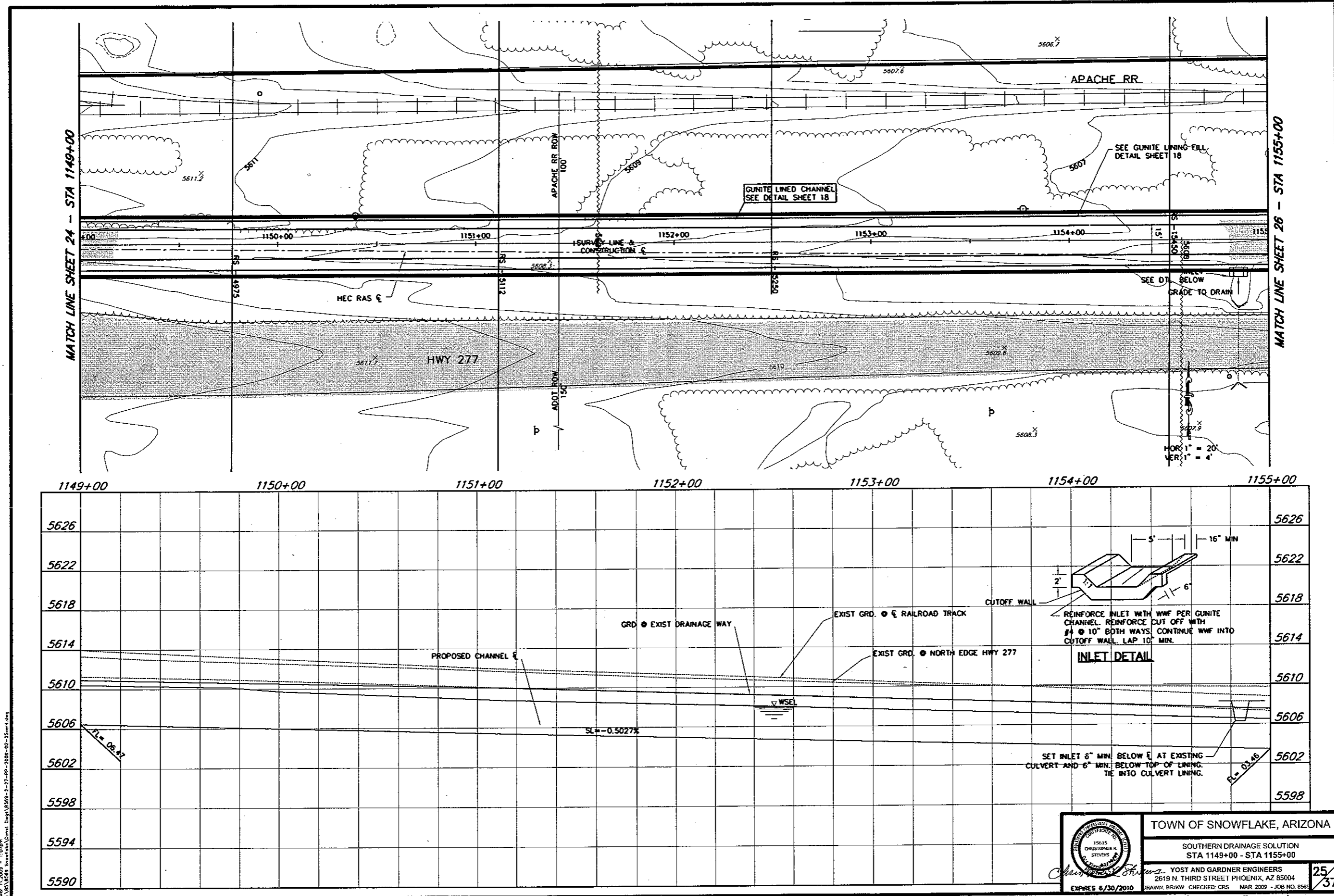


Mar 11 2009 - 1:06pm  
 P:\B\1589 - Snowflake\Drawn\0568-2-27-09-02-25-04.dwg

	TOWN OF SNOWFLAKE, ARIZONA
	SOUTHERN DRAINAGE SOLUTION STA 1143+00 - STA 1149+00 YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 8508

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

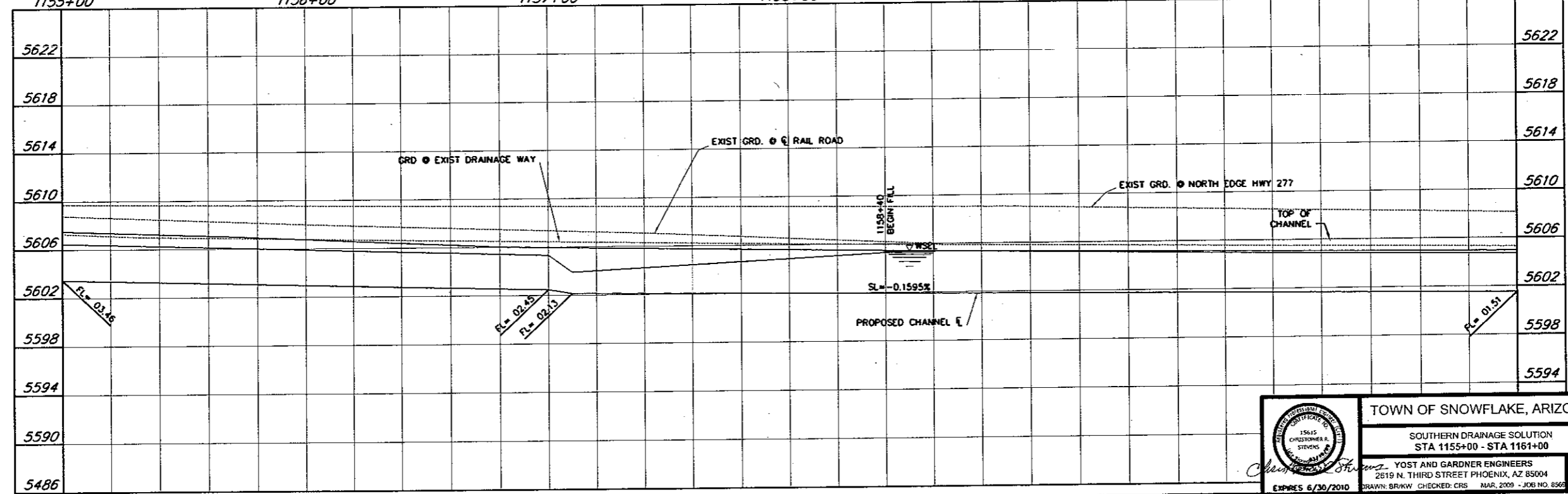
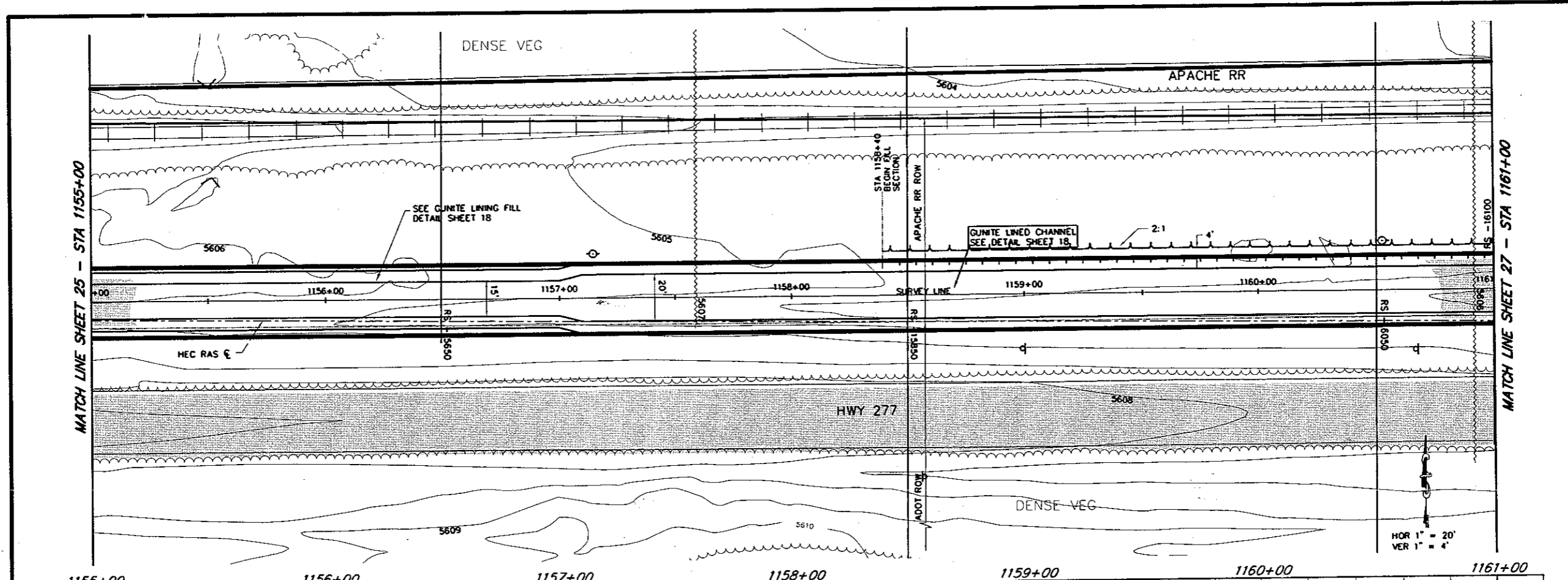
24/37



Mar 11, 2009 - 1:07pm  
 P:\MSA\MS09\Snowflake\Const\Draw\MSA09-2-27-PP-2009-02-25.mxd.dwg

	TOWN OF SNOWFLAKE, ARIZONA	
	SOUTHERN DRAINAGE SOLUTION STA 1149+00 - STA 1155+00	
YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRANKY CHECKED: CHS MAR 2009 JOB NO. 856	25 / 37	

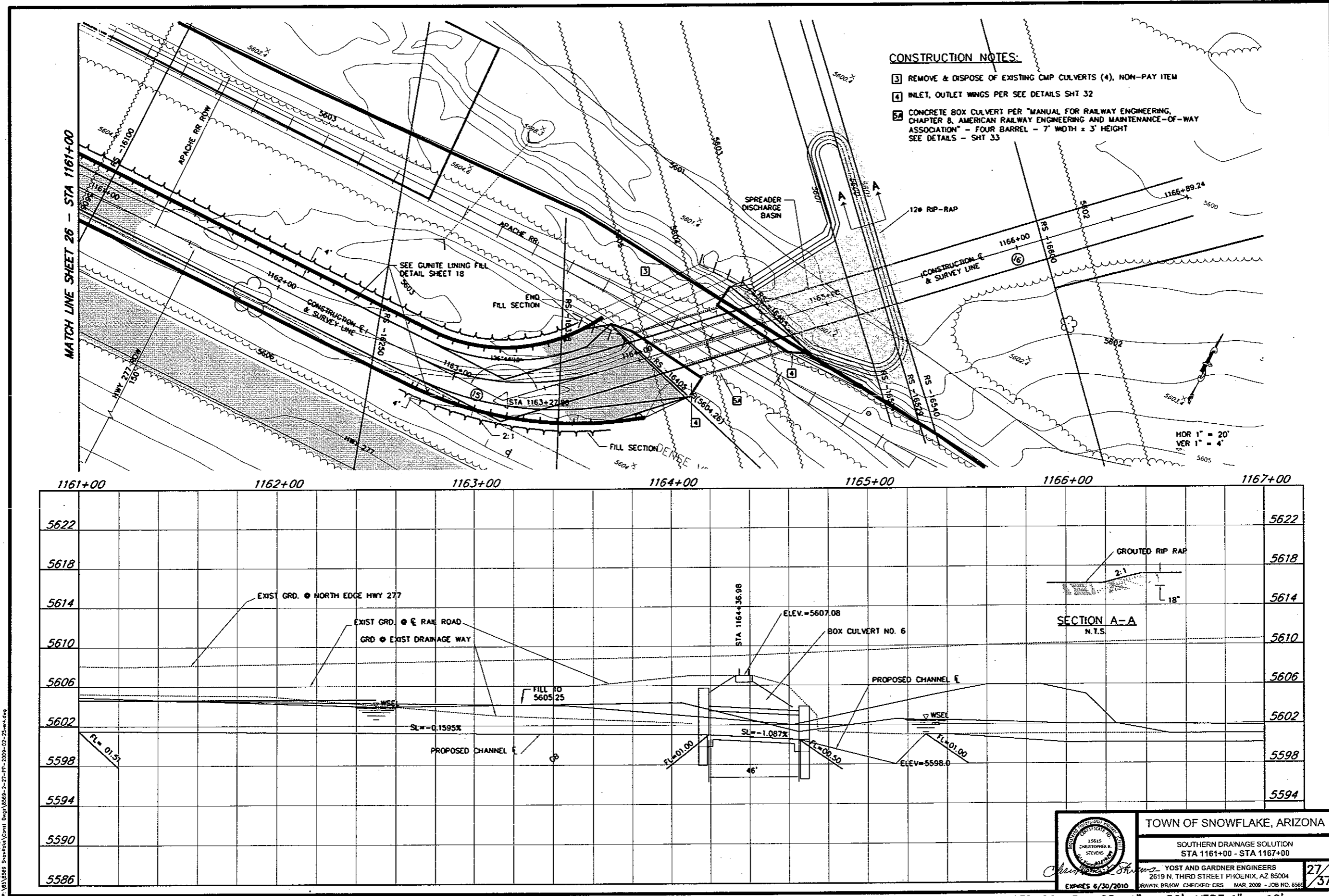
CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



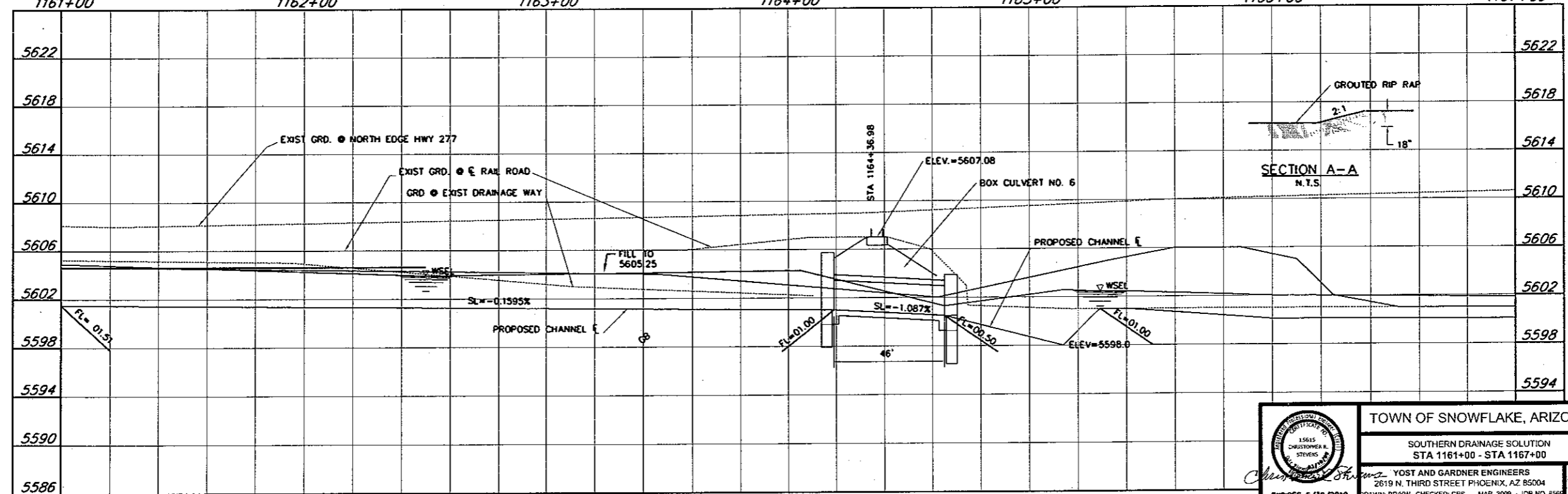
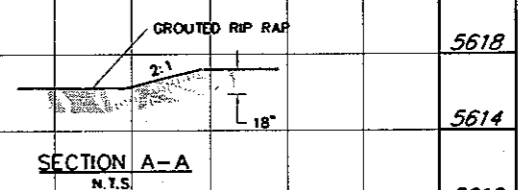
Mar 11, 2009 - 1.00mm  
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	<b>TOWN OF SNOWFLAKE, ARIZONA</b>	
	SOUTHERN DRAINAGE SOLUTION STA 1155+00 - STA 1161+00	
<i>Christopher A. Stevens</i> YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004	EXPRES 6/30/2010 DRAWN: BR/KW CHECKED: CRS MAR, 2009 - JOB NO. 0509	<b>26</b> <hr style="width: 10px; margin: 0;"/> <b>37</b>

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'



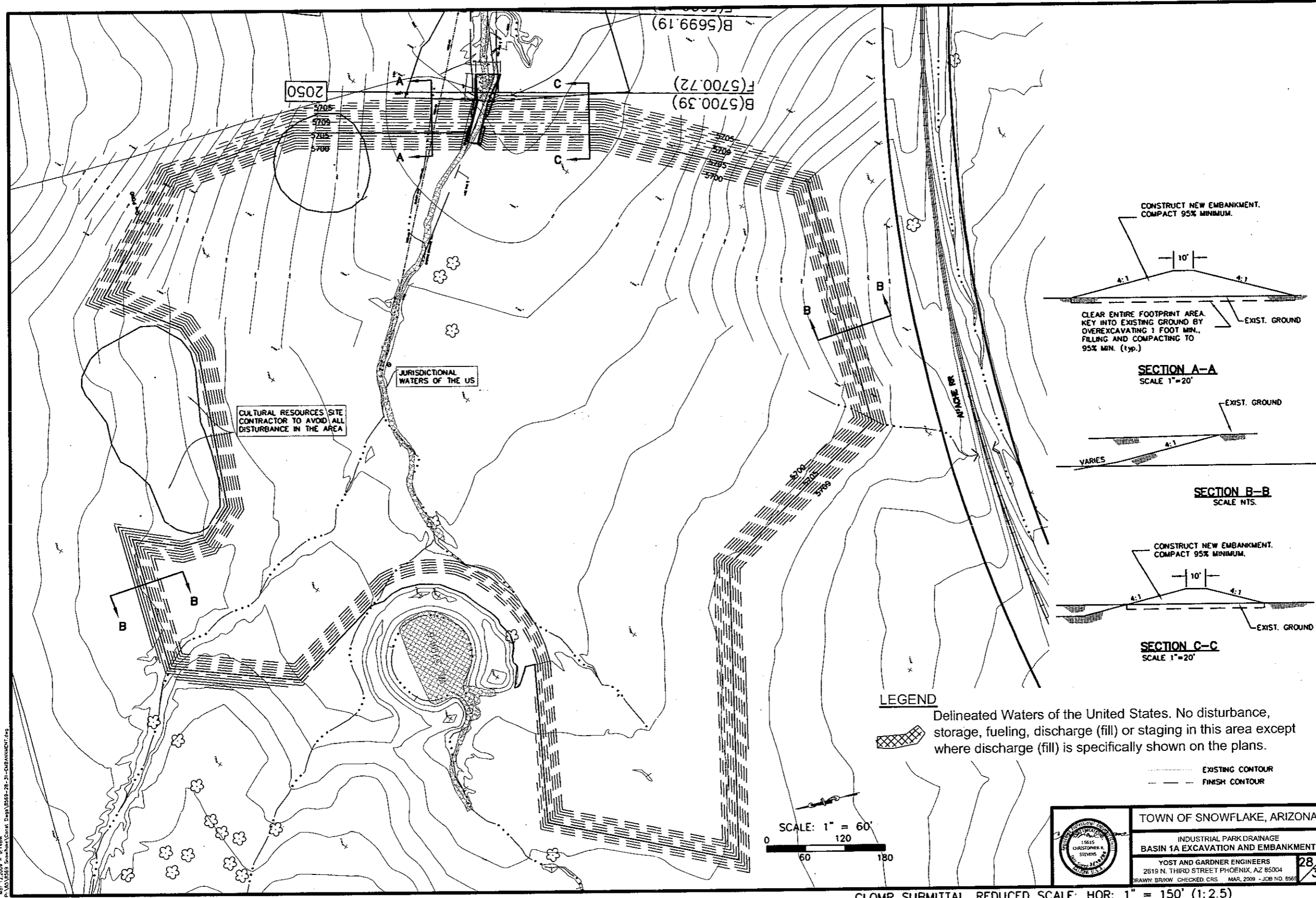
- CONSTRUCTION NOTES:**
- 3 REMOVE & DISPOSE OF EXISTING CMP CULVERTS (4), NON-PAY ITEM
  - 4 INLET, OUTLET WINGS PER SEE DETAILS SHIT 32
  - 5 CONCRETE BOX CULVERT PER "MANUAL FOR RAILWAY ENGINEERING, CHAPTER 8, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION" - FOUR BARREL - 7' WIDTH x 3' HEIGHT SEE DETAILS - SHIT 33



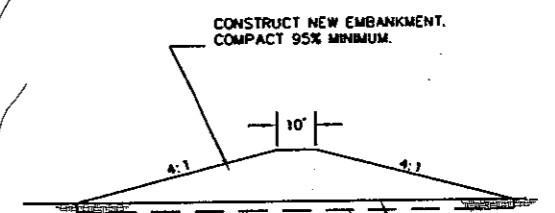
Apr. 11, 2009 - 1:05pm  
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	<b>TOWN OF SNOWFLAKE, ARIZONA</b>	
	SOUTHERN DRAINAGE SOLUTION STA 1161+00 - STA 1167+00	
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 EXPRES 6/30/2010	DRAWN: BRAW CHECKED: CRS MAR. 2009 - JOB NO. 8566

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 50', VERT 1" = 10'

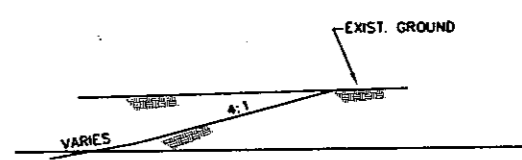


Mar. 13, 2009 - 9:14am  
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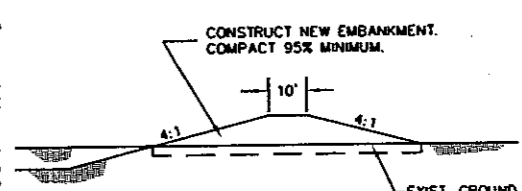


CLEAR ENTIRE FOOTPRINT AREA.  
KEY INTO EXISTING GROUND BY  
OVEREXCAVATING 1 FOOT MIN.,  
FILLING AND COMPACTING TO  
95% MIN. (typ.)

**SECTION A-A**  
SCALE 1"=20'



**SECTION B-B**  
SCALE NTS.

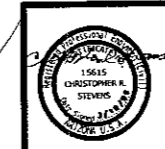
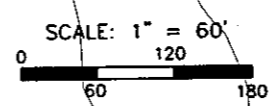


**SECTION C-C**  
SCALE 1"=20'

**LEGEND**

Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

..... EXISTING CONTOUR  
 - - - - - FINISH CONTOUR



**TOWN OF SNOWFLAKE, ARIZONA**  
 INDUSTRIAL PARK DRAINAGE  
 BASIN 1A EXCAVATION AND EMBANKMENT  
 YOST AND GARDNER ENGINEERS  
 2619 N. THIRD STREET PHOENIX, AZ 85004  
 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 8562

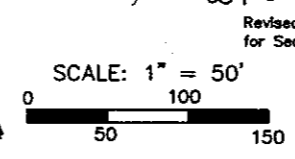
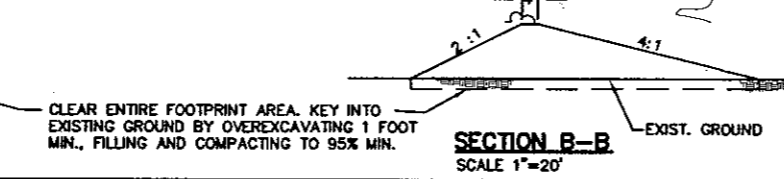
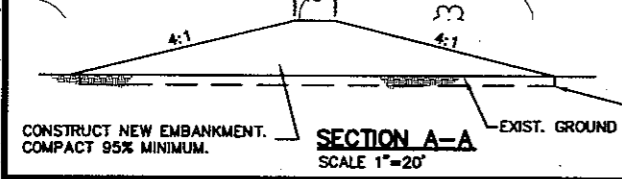
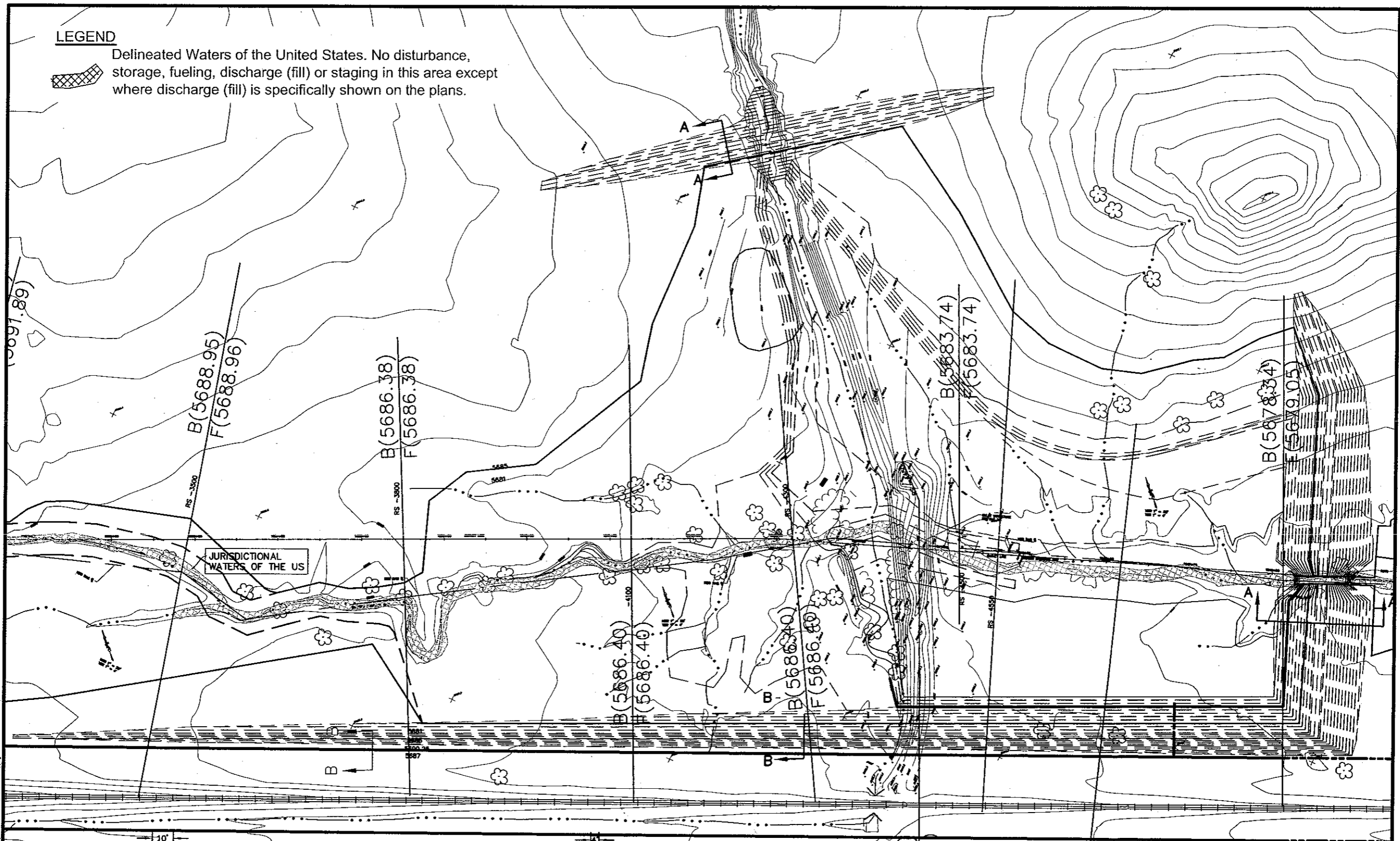
28/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 150' (1:2.5)

**LEGEND**

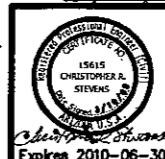


Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.



**LEGEND**  
 - - - - - EXISTING CONTOUR  
 - - - - - FINISH CONTOUR

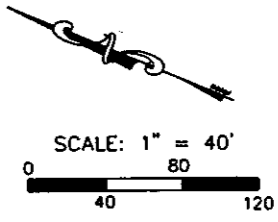
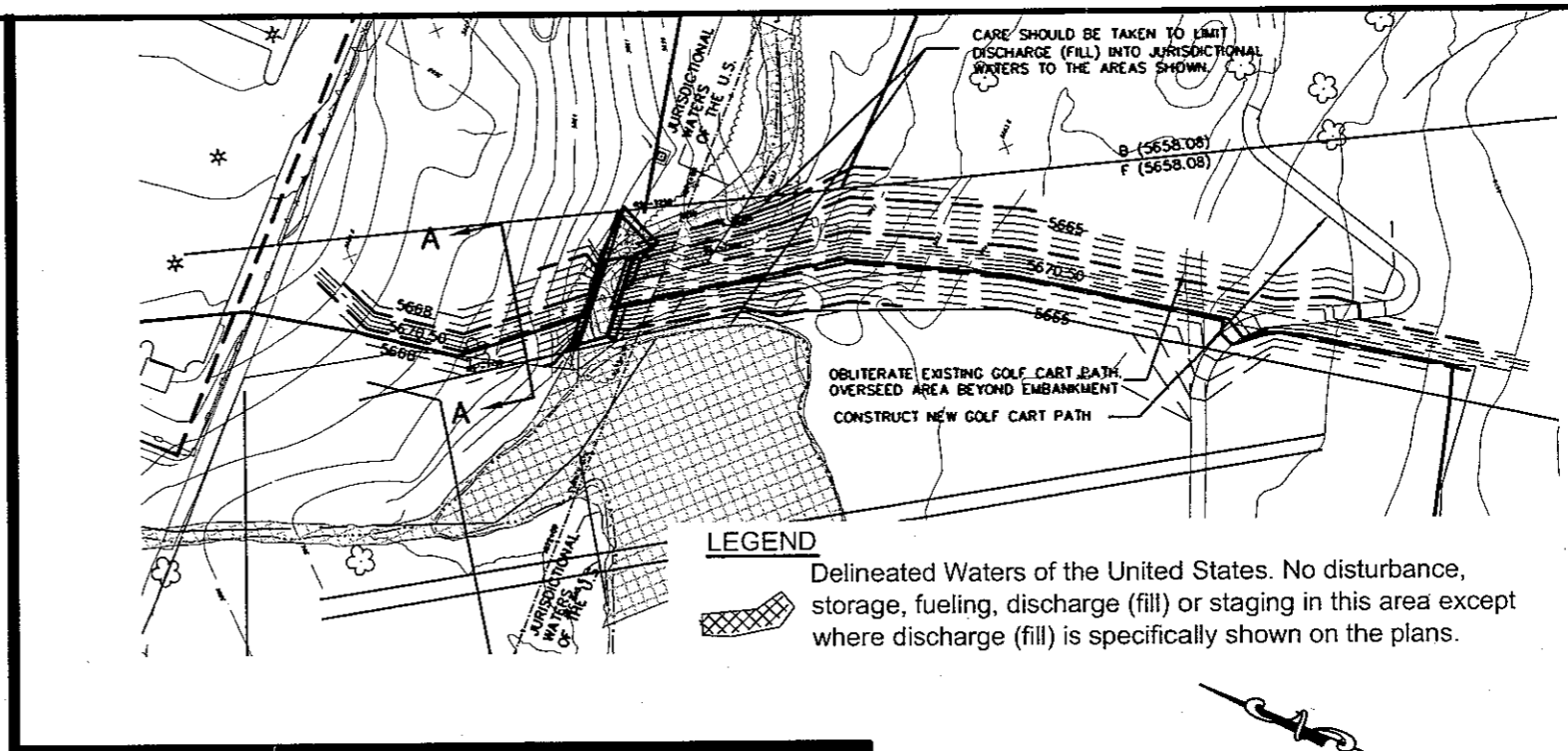
Revised: 2009-04-06, Corrected call out for Sec A-A (Northern embankment) C.R.S.



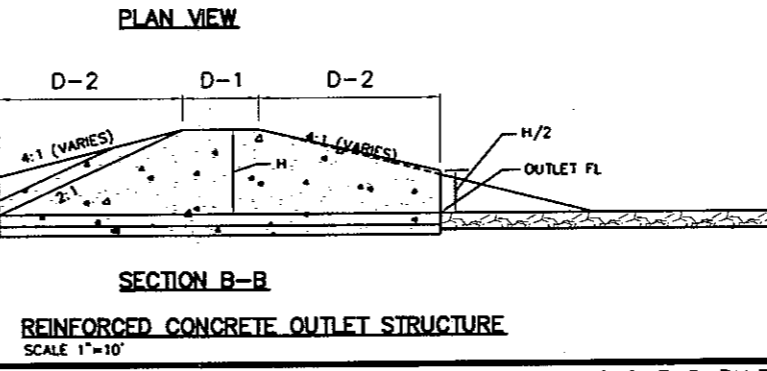
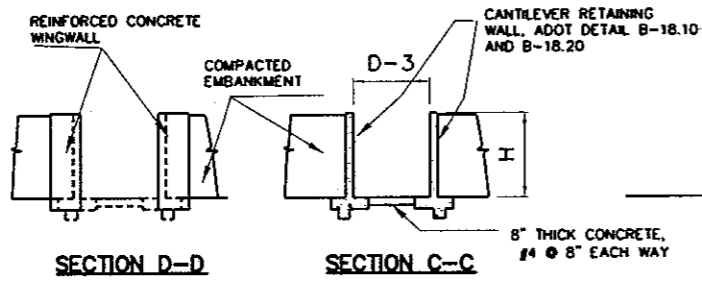
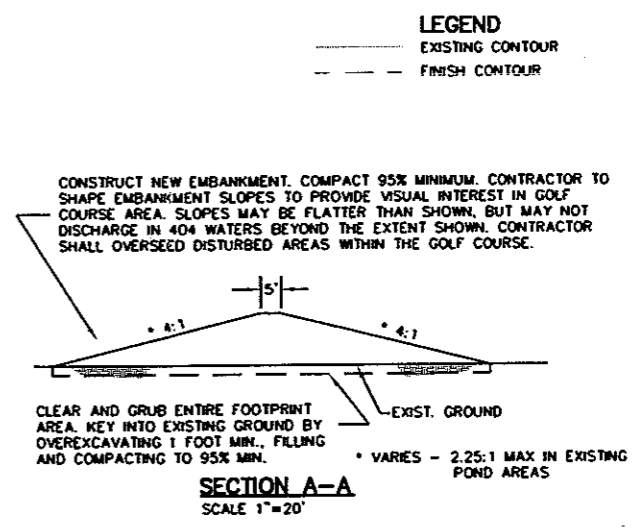
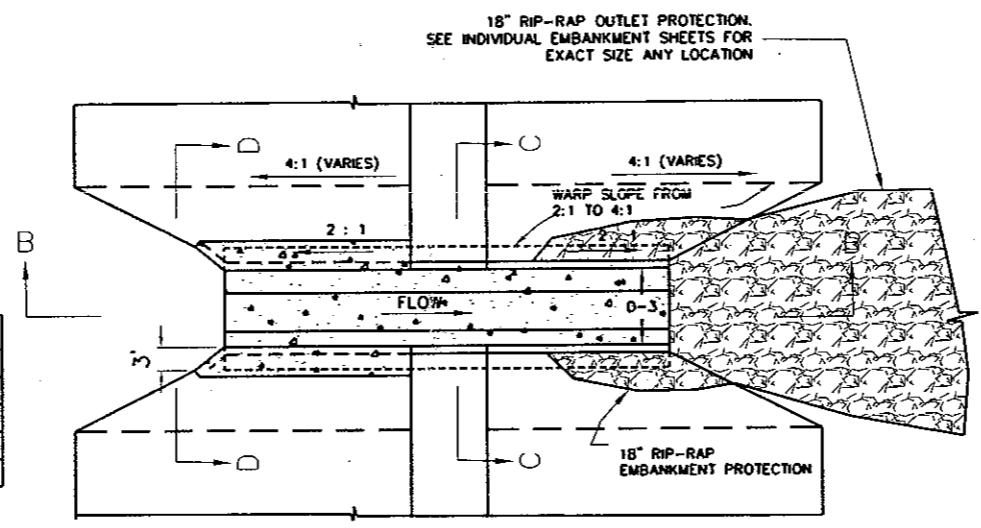
TOWN OF SNOWFLAKE, ARIZONA	
INDUSTRIAL PARK DRAINAGE BASIN 1B EMBANKMENT	
YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004	
29	37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 120' (1:2.4)

Apr. 06.2009 - 1:50pm  
C:\Users\stevens\OneNote\Drawings\2009-04-06-29-37-DRAINAGE.dwg



EMBANKMENT DIMENSIONS					
BASIN	SHEET	"D-1"	"D-2"	"D-3"	"H"
1A	2	11'	28'	15'-6"	10'-6"
1B	6	13'-6"	24'	10'	10'-9"
2	12	5'-6"	20'	12'	9'-0"
3	15	5'-6"	18'	9'-6"	9'-0"



TOWN OF SNOWFLAKE, ARIZONA

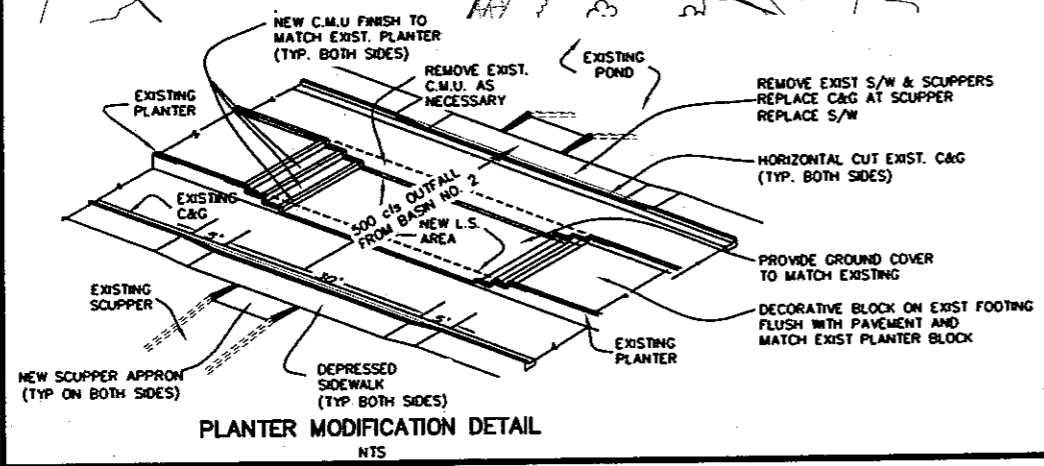
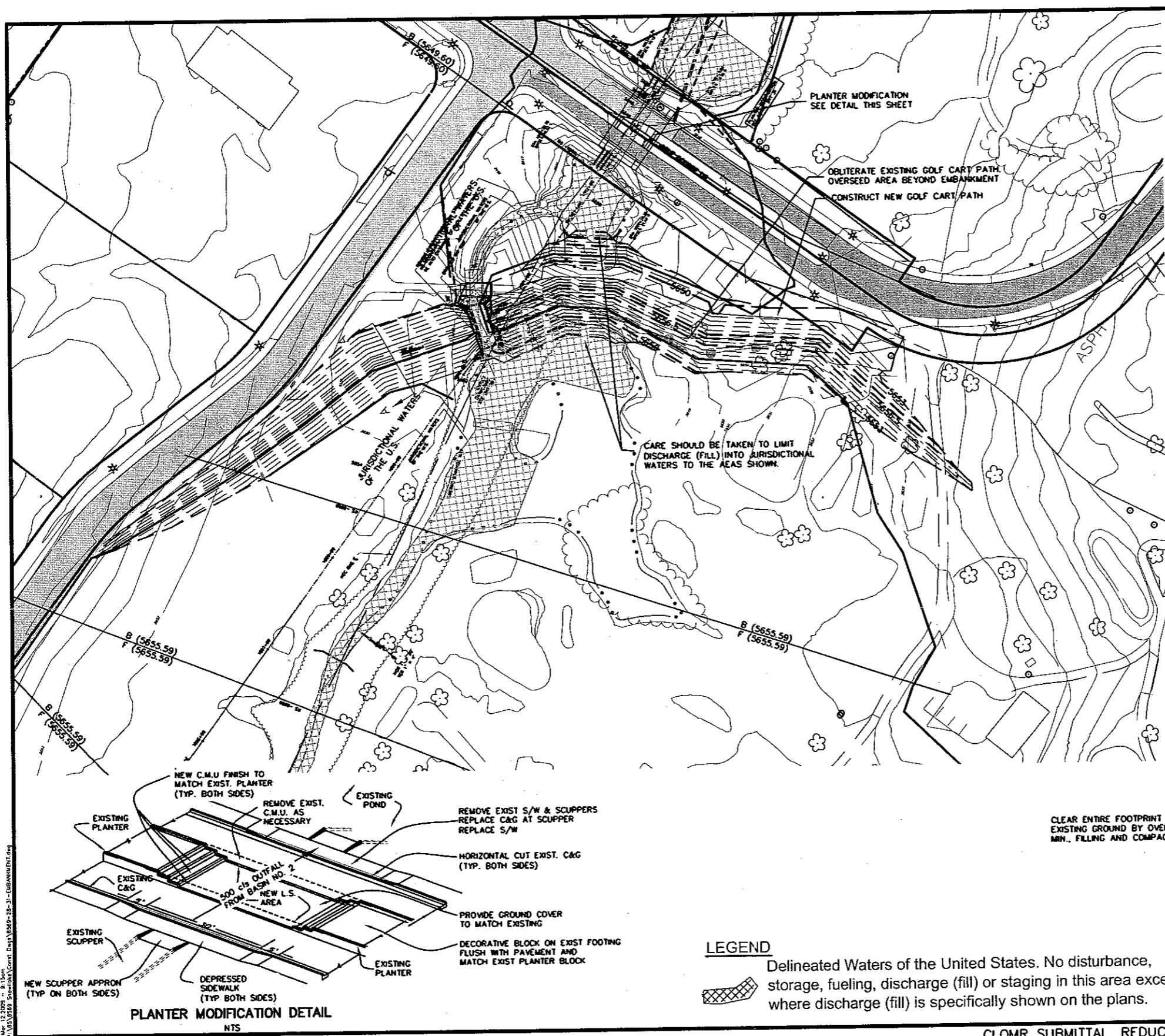
INDUSTRIAL PARK DRAINAGE  
BASIN 2 EMBANKMENT AND OUTLET DETAILS

YOST AND GARDNER ENGINEERS  
2619 N. THIRD STREET PHOENIX, AZ 85004  
DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 8566

30/37

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 100' (1:2.5)

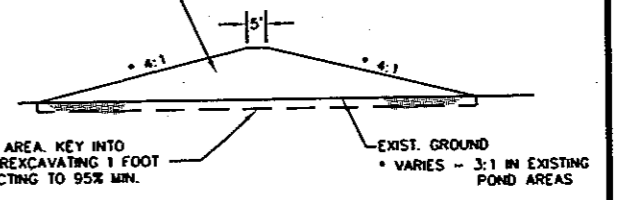
Mar. 12.2009 - 9:13am  
 P:\051559 - Snowflake\Cons\Draw\15569-18-31-embankment.dwg



**LEGEND**  
 ——— EXISTING CONTOUR  
 - - - FINISH CONTOUR

**SCALE: 1" = 40'**  
 0 40 120

CONSTRUCT NEW EMBANKMENT. COMPACT 95% MINIMUM. CONTRACTOR TO SHAPE EMBANKMENT SLOPES TO PROVIDE VISUAL INTEREST IN GOLF COURSE AREA. SLOPES MAY BE FLATTER THAN SHOWN, BUT MAY NOT DISCHARGE IN 40A WATERS BEYOND THE EXTENT SHOWN. CONTRACTOR SHALL OVERSEED DISTURBED AREAS WITH IN THE GOLF COURSE.



**SECTION A-A**  
 SCALE 1"=20'

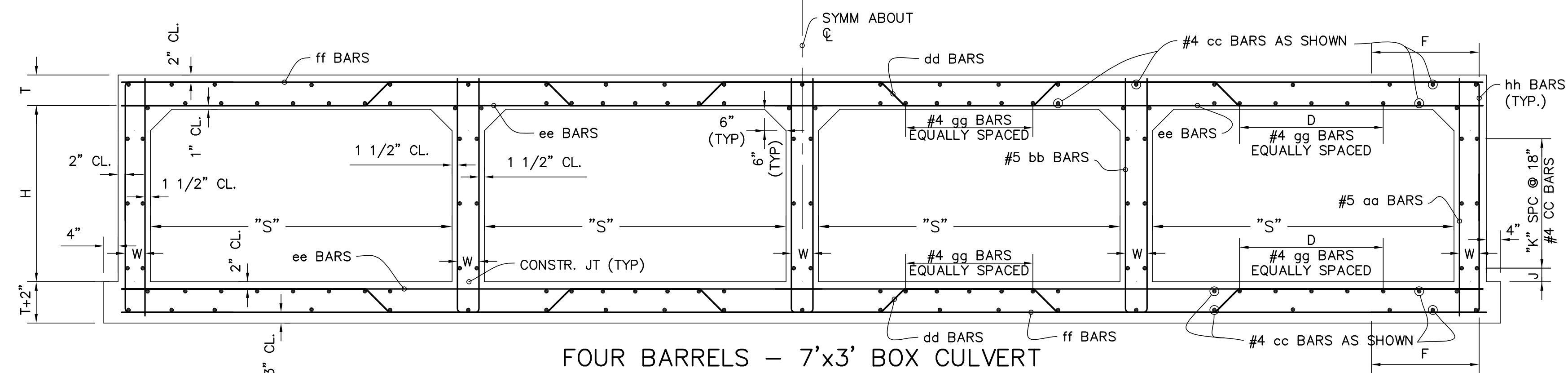
**LEGEND**  
 Delineated Waters of the United States. No disturbance, storage, fueling, discharge (fill) or staging in this area except where discharge (fill) is specifically shown on the plans.

	TOWN OF SNOWFLAKE, ARIZONA	31/37
	INDUSTRIAL PARK DRAINAGE BASIN 3 EMBANKMENT	
	YOST AND GARDNER-ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BRKW CHECKED: CRS MAR. 2009 - JOB NO. 8568	

CLOMR SUBMITTAL. REDUCED SCALE: HOR: 1" = 100' (1:2.5)

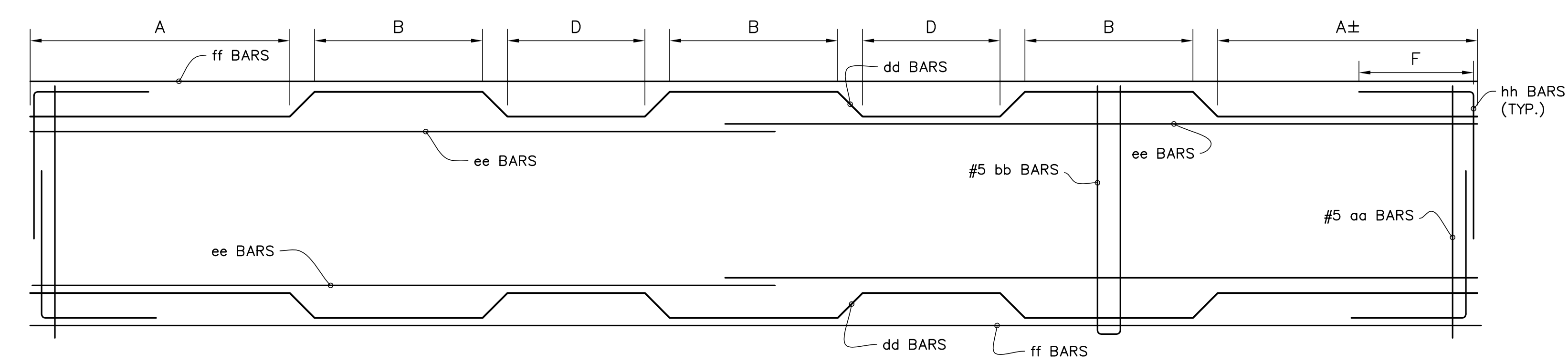




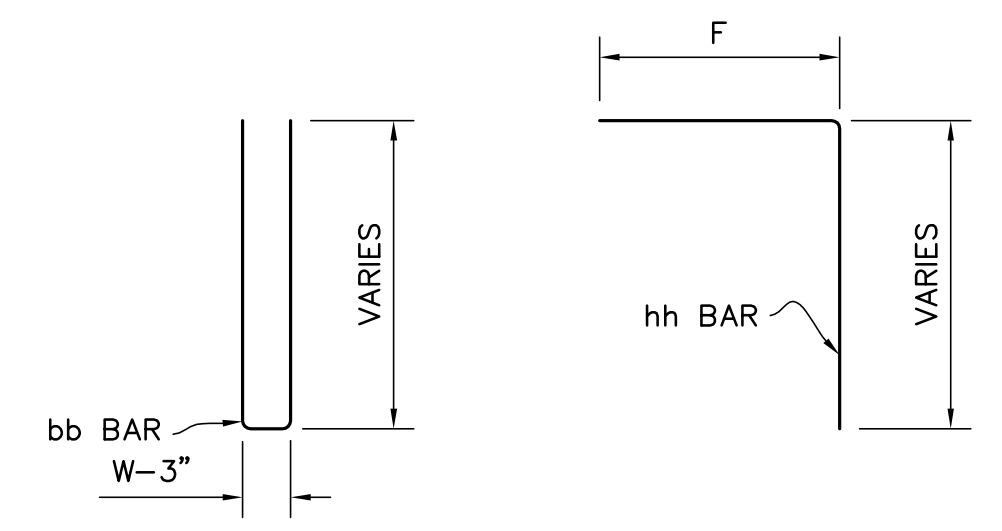


FOUR BARRELS - 7'x3' BOX CULVERT  
 STA 1164+37 (EAST R.R. CROSSING)  
 STA 1112+15 (WEST R.R. CROSSING)  
 SCALE: 1/2" = 1'

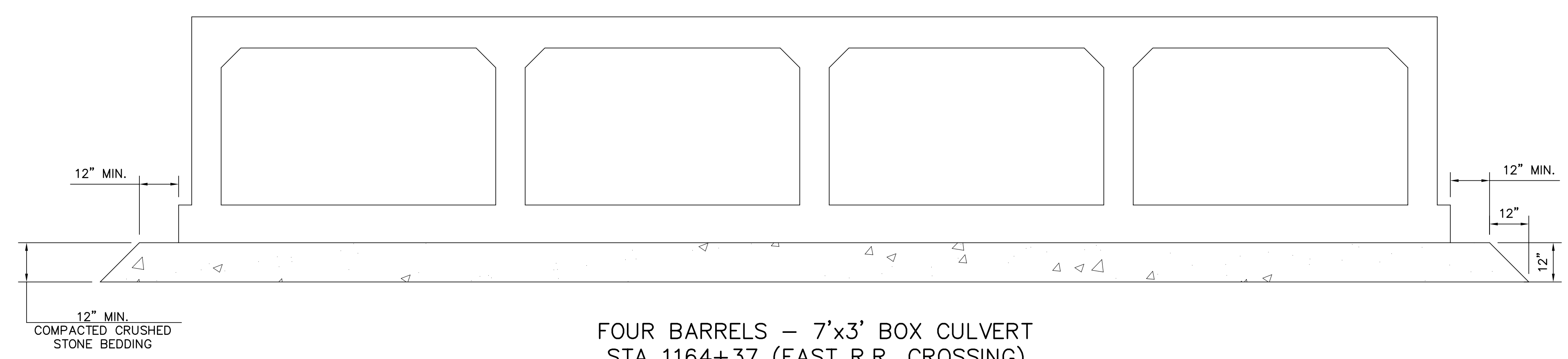
NOTE:  
 Reinforcing shown is for placement location only.  
 Use the appropriate table to determine the reinforcing requirement.



7'x3' BOX CULVERT  
 REINFORCING BAR PLACING DIAGRAM



HEIGHT "h"	"f" DIM.	"s" SPACES
4'	9"	1



FOUR BARRELS - 7'x3' BOX CULVERT  
 STA 1164+37 (EAST R.R. CROSSING)  
 STA 1112+15 (WEST R.R. CROSSING)  
 SCALE: 1/2" = 1'

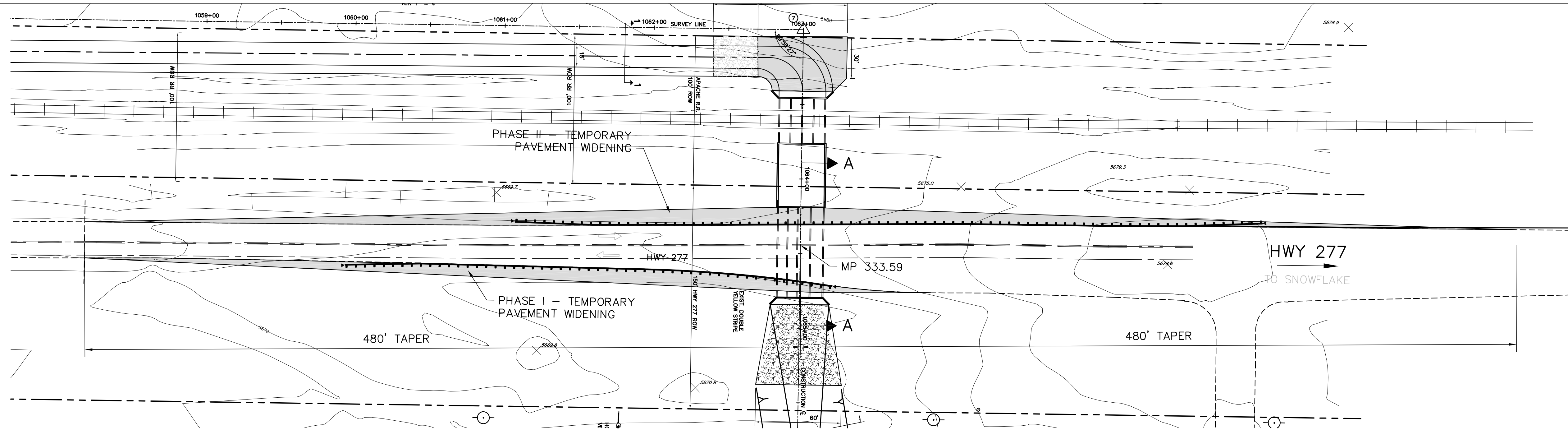
FIGURE 8-16-7. BACKFILLING - OPEN CUT CONSTRUCTION

DESIGN CRITERIA  
 DESIGN BASED ON LATEST EDITION OF "MANUAL FOR RAILWAY ENGINEERING ,  
 CHAPTER 8 AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY  
 ASSOCIATION"  
 1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,300 PSI AT  
 28 DAYS.  
 2. LIVE LOAD SHALL BE COOPER E80 (EM 360) LOADING.

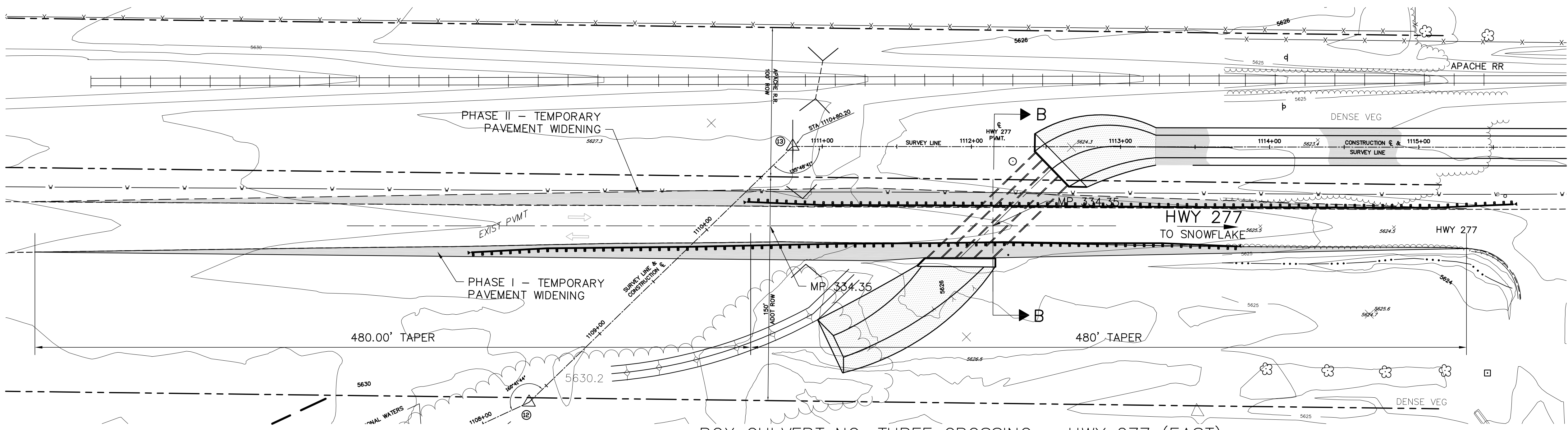
TABLE 1  
 0' - 10' FILL

SPAN "S"	HEIGHT "H"	TOP SLAB "T"	WALL "W"	aa		bb		cc	dd				ee			ff		gg	hh							
				SPACING	LENGTH	SPACING	LENGTH		NUMBER	BAR SIZE	SPACING	LENGTH	A	B	C	D	BAR SIZE		SPACING	LENGTH	NUMBER	BAR SIZE	SPACING	LENGTH	T	
7'	3'	12"	10"	12"	5'-10"	12"	9' 10"	68	5	12"	28' 0"	5' 0"	3' 0"	8"	4' 0"	5	12"	14' 6"	5	12"	27' 0"	56	5	8"	6' 0"	3' 0"

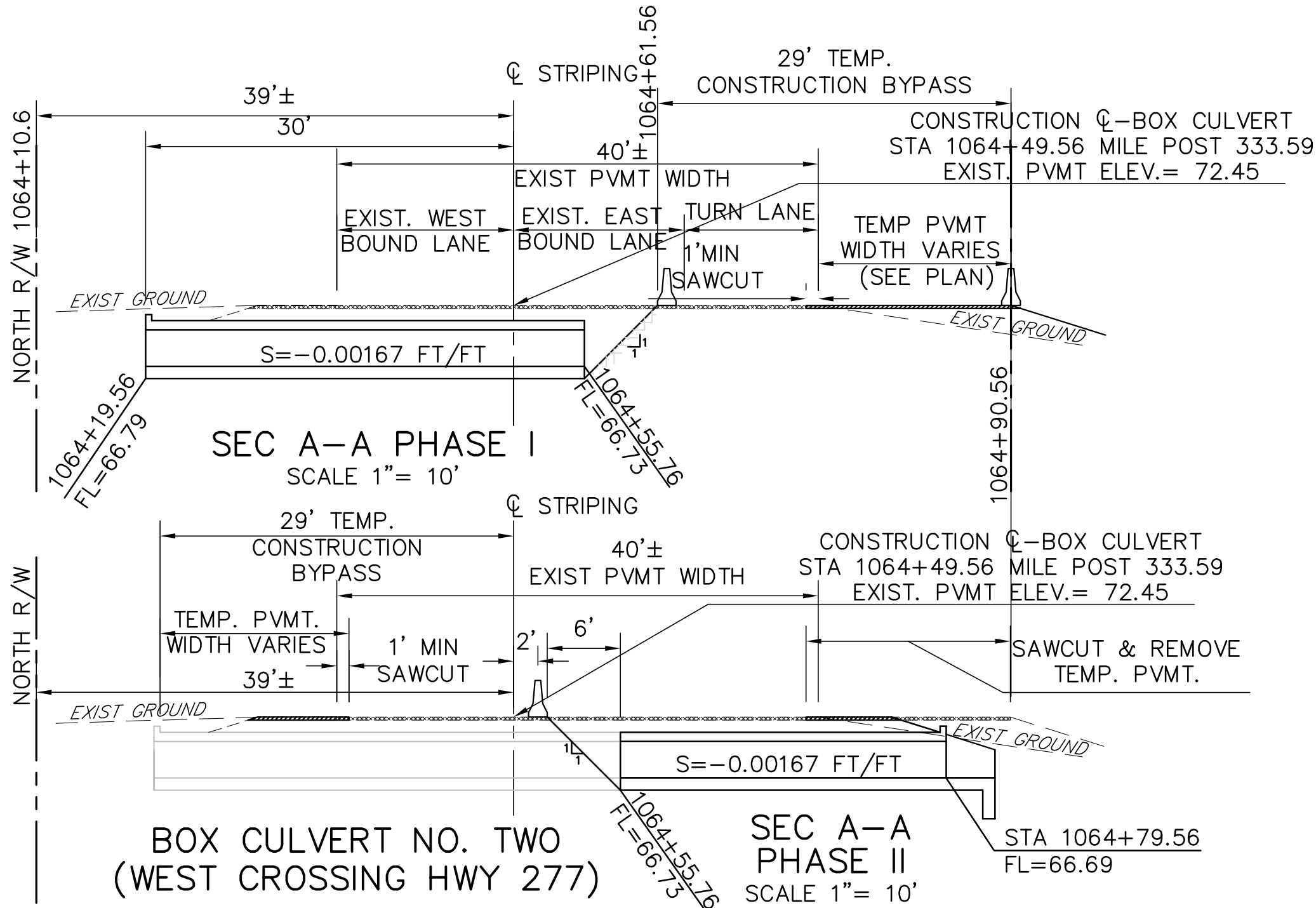
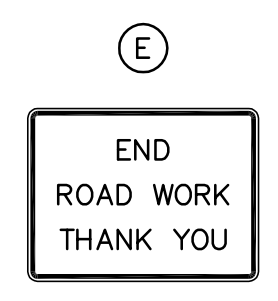
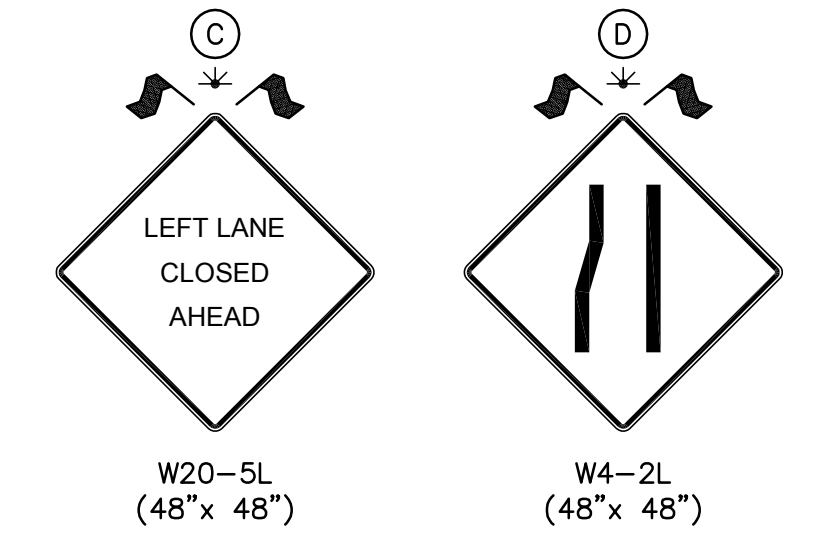
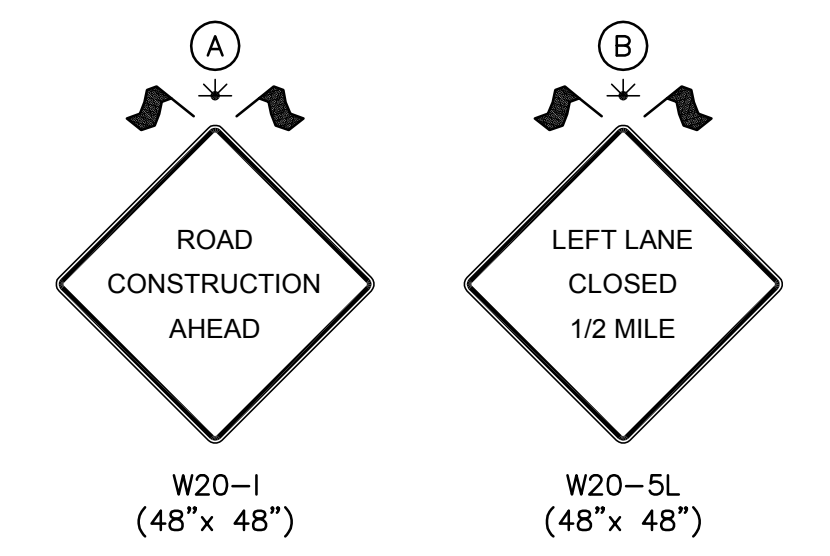
	TOWN OF SNOWFLAKE, ARIZONA	
	SOUTHERN DRAINAGE SOLUTION <b>RAILROAD CROSSING BOX CULVERT DETAILS</b>	
	YOST AND GARDNER ENGINEERS 2619 N. THIRD STREET PHOENIX, AZ 85004 DRAWN: BR CHECKED: CRS JUN, 2006 - JOB NO. 8569	33 37



BOX CULVERT NO. TWO CROSSING - HWY 277 (WEST)  
SCALE 1"=40'

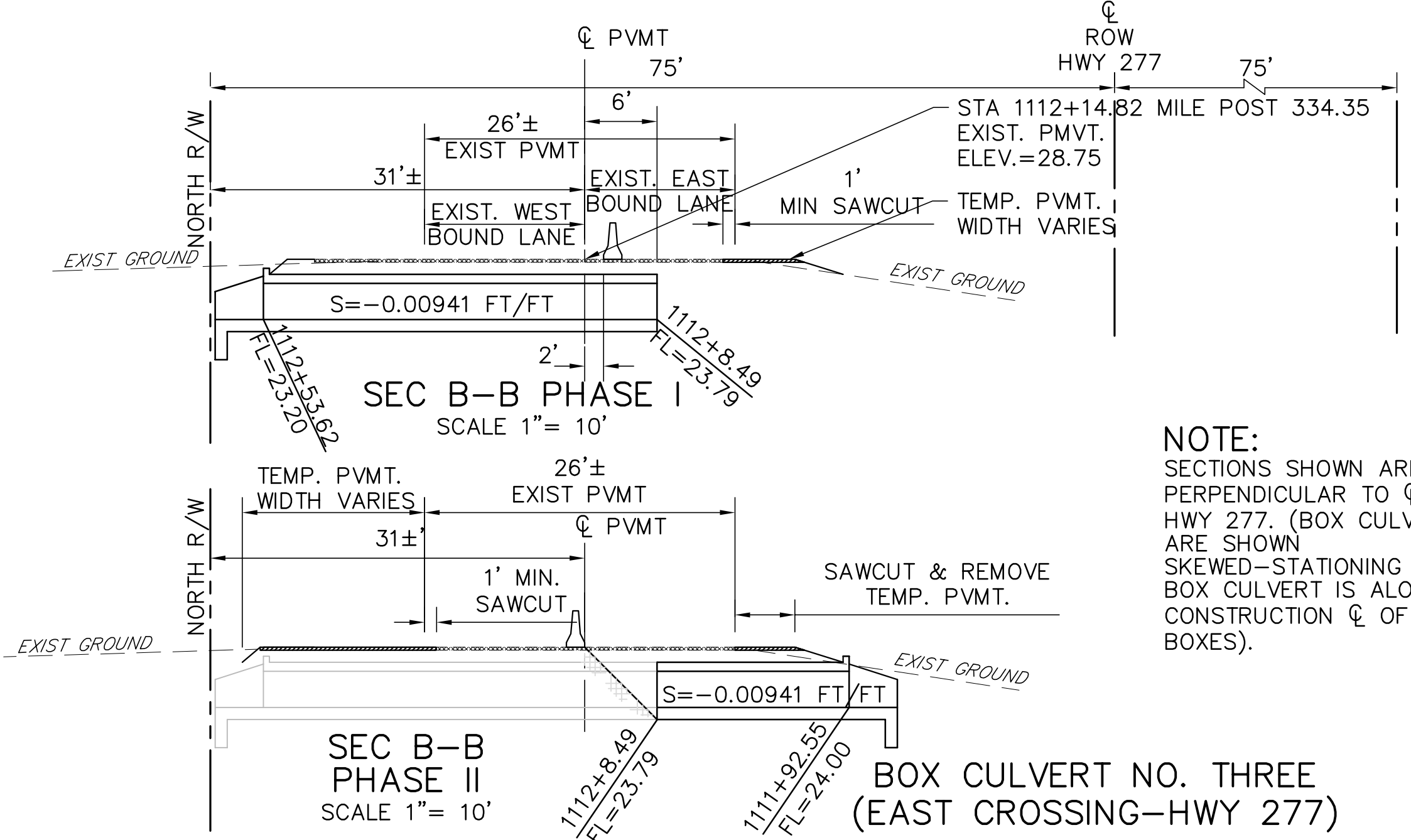


BOX CULVERT NO. THREE CROSSING - HWY 277 (EAST)  
SCALE 1"=40'



BOX CULVERT NO. TWO (WEST CROSSING HWY 277)

SEC A-A PHASE II  
SCALE 1"= 10'



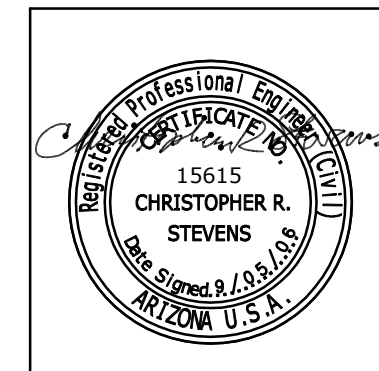
SEC B-B PHASE II  
SCALE 1"= 10'

BOX CULVERT NO. THREE (EAST CROSSING-HWY 277)

NOTES:  
PHASE I - INSTALLATION OF NEW BOX CULVERT ACROSS WEST BOUND LANE AT BOTH CULVERT CROSSINGS OF HWY 277.  
PHASE II - INSTALLATION OF NEW BOX CULVERT ACROSS EAST BOUND LANE AT BOTH CULVERT CROSSINGS OF HWY 277.

NOTE:  
SECTIONS SHOWN ARE PERPENDICULAR TO C HWY 277. (BOX CULVERTS ARE SHOWN SKEWED-STATIONING ON BOX CULVERT IS ALONG CONSTRUCTION C OF BOXES).

Apr. 14, 2009 - 4:30pm  
P:\85\8569\_Snowflake Const. Dwg\8569-34-TRAFFIC.dwg

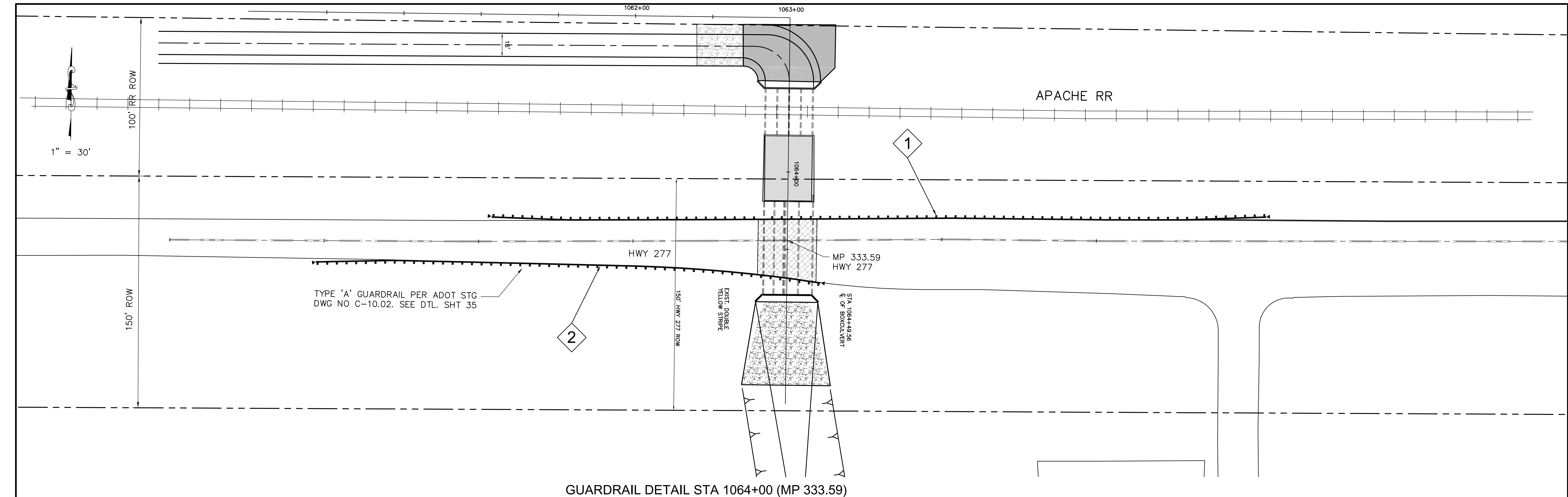


TOWN OF SNOWFLAKE, ARIZONA

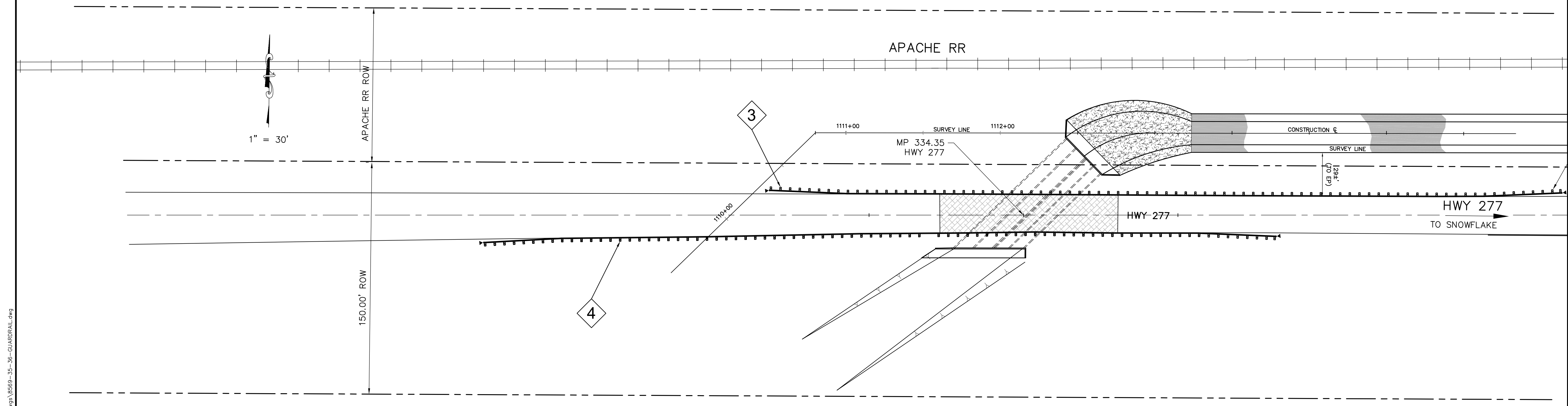
SOUTHERN DRAINAGE SOLUTION  
TRAFFIC CONTROL PLAN

YOST AND GARDNER ENGINEERS  
2619 N. THIRD STREET PHOENIX, AZ 85004  
DRAWN: BR/KW CHECKED: CRS JUL. 2006 - JOB NO. 8569





GUARDRAIL DETAIL STA 1064+00 (MP 333.59)



GUARDRAIL DETAIL STA 1110+00 (MP 334.35)

Apr 14, 2009 - 5:04pm  
 C:\85\8569\_Snowflake\Const\_Dwg\8569-35-36-GUARDRAIL.dwg

	<b>TOWN OF SNOWFLAKE, ARIZONA</b>			
	SOUTHERN DRAINAGE SOLUTION <b>GUARDRAIL DETAILS STA 1064 AND 1110</b>			
	<b>YOST AND GARDNER ENGINEERS</b> 2619 N. THIRD STREET PHOENIX, AZ 85004 <small>DRAWN: BR CHECKED: CRS JUL, 2006 - JOB NO. 8569</small>			
<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center; vertical-align: middle;">36</td> <td style="text-align: center; vertical-align: middle;">37</td> </tr> </table>	36	37		
36	37			

APPROXIMATE TRAFFIC CONTROL QUANTITIES – TABLE 1

ADOT ITEM NO.	ELEMENT OF WORK	UNIT	PHASE 1	PHASE 2	TOTAL
	ESTIMATED DURATION		30 DAYS*	30 DAYS*	60 DAYS
7015010	TEMPORARY CONCRETE BARRIER (INSTALLATION AND REMOVAL)	LF			
7015020	TEMPORARY IMPACT ATTENUATORS (INSTALLATION AND REMOVAL)	EACH			
7015042	TEMPORARY PAINTED MARKING (STRIPE)	EACH			
7015091	SPECIALTY SIGNS (WITH FLUORESCENT ORANGE SHEETING)	LF			
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	EACH			
7016021	TEMPORARY IMPACT ATTENUATORS (IN USE)	LF			
7016032	PORTABLE SIGN STANDS (RIGID)	SQ FT			
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	LF-DAY			
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY			
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY			
7016039	EMBEDDED SIGN POST	EACH-DAY			
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY			
7016052	TEMPORARY SIGN (LESS THAN 10 SF)	EACH-DAY			
7016061	TEMPORARY SIGN (10 SF OR MORE)	EACH-DAY			
7016061	FLASHING ARROW PANEL	EACH-DAY			
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY			
(INFO ONLY)	LAW ENFORCEMENT (DPS OFFICERS)	HOURS	80	80	160

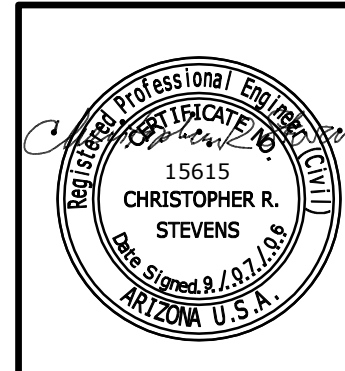
\* DURATION MAY BE SHORTENED IF "PRECAST ALTERNATE" IS UTILIZED.

**TRAFFIC CONTROL NOTES:**

- THE TRAFFIC CONTROL PLANS REPRESENT A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR MAY PREPARE ANOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO APPROVAL OF A.D.O.T. BEFORE BEGINNING CONSTRUCTION. TRAFFIC CONTROL PLANS ARE TO BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART VI, 2003 EDITION AND THE A.D.O.T. TRAFFIC CONTROL DESIGN GUIDELINES, 2003.
- ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY A.D.O.T.
- ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED OR COVERED IN PLACE, AS DIRECTED BY A.D.O.T. THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY A.D.O.T.
- THE RETRO-REFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET THE CRITERIA ESTABLISHED IN SECTION 1007 OF THE A.D.O.T. STANDARD SPECIFICATIONS 2000 EDITION.
- ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
- FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN MOUNTING HEIGHT IS A MINIMUM OF 7 FEET AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. FOR SIGNS INSTALLED ON SPRING OR RIGID STANDS, SIGN MOUNTING HEIGHT IS A MINIMUM OF 1 FOOT ABOVE THE PAVEMENT.
- FOR SIGNS INSTALLED ON EMBEDDED POSTS, THE NEAREST EDGE OR CORNER OF A SIGN SHOULD BE 12 FEET FROM THE NEAREST EDGE OF PAVEMENT.
- EMBEDDED POSTS MAY BE USED IN PLACE OF SPRING OR RIGID SIGN STANDS, AS LONG AS THEY ARE NOT PLACED THROUGH NEW PAVEMENT.
- TWO FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN. TYPE "A" FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN.
- CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 30 MINUTES PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BUT THEY MUST BE COVERED OR TURNED AWAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER COMPLETION OF THE CONSTRUCTION ACTIVITIES.
- WHEN TRAFFIC CONTROL DEVICES ARE NOT IN USE, THEY SHALL BE MOVED AT LEAST 30 FEET FROM THE ROADWAY. ALL TRAFFIC CONTROL SIGNS NOT IN USE SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC.
- DRUMS, TYPE 2 BARRICADES AND VERTICAL PANELS SHALL BE PLACED 40 FEET ON CENTER IN TAPERS AND 80 FEET ON CENTER IN TANGENTS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.
- A TYPE "C" STEADY BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY DRUM, BARRICADE, OR VERTICAL PANEL IN TAPER OR TANGENT AREAS FOR CHANNELIZATION DURING NIGHTTIME ACTIVITIES.
- DURING NIGHTTIME ACTIVITIES, THE CONTRACTOR SHALL NOT UTILIZE CONES FOR CHANNELIZATION DEVICES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL UTILIZE A FLASHING ARROW PANEL IN THE SEQUENTIAL CHEVRON MODE FOR EACH CLOSURE OF A THROUGH LANE. THE CONTRACTOR SHALL NOT UTILIZE A FLASHING ARROW PANEL IN CONNECTION WITH ANY SHIFTING TAPER.
- THE CONTRACTOR SHALL POSITION CHANGEABLE MESSAGE BOARDS IN ADVANCE OF EACH ROAD CLOSURE OR AS DIRECTED BY THE ENGINEER.
- AN ADEQUATE NUMBER OF TYPE 3 BARRICADES SHALL BE PLACED ACROSS EACH ROADWAY TO BE CLOSED. A 60 INCH BY 36 INCH "ROAD CLOSED" SIGN SHALL BE ATTACHED TO ONE OF THE TYPE 3 BARRICADES CLOSING THE ROADWAY. A TYPE "A" FLASHING WARNING LIGHT SHALL BE MOUNTED ON EACH END OF EACH TYPE 3 BARRICADE DURING NIGHTTIME ACTIVITIES.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL TEMPORARY PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY.
- SPEED LIMIT SIGNING IS SUBJECT TO REVIEW AND CHANGE BY A.D.O.T. AS DICTATED BY FIELD CONDITIONS.
- SIGNING FOR DOUBLE FINES IN WORK ZONES, WHEN ALLOWED BY THE ENGINEER, SHALL GENERALLY CONFORM TO FIGURE SA-12 OF THE A.D.O.T. TRAFFIC CONTROL DESIGN GUIDELINES, 2003. SUCH SIGNING SHALL ONLY BE IN PLACE WHEN WORKERS ARE PRESENT IN ACCORDANCE WITH THE GUIDELINES FOR SIGNING FOR DOUBLE FINES IN WORK ZONES. THE COST FOR COVERING OR MOVING THE SIGNS BEFORE AND AFTER WORK PERIODS IS CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.
- EXISTING SIGNS NOT INDICATED ON THE PLAN SHEETS, THAT DO NOT NEED TO BE REMOVED OR RELOCATED, SHALL REMAIN. IF CONSTRUCTION ACTIVITIES REQUIRE THE REMOVAL OF SIGNS, THE SIGNS SHALL BE REINSTALLED AS NEAR AS POSSIBLE TO THE EXISTING LOCATION, AS DIRECTED BY A.D.O.T. THE REMOVAL/REINSTALLATION OF SIGNS FOR ANY CONSTRUCTION ACTIVITY SHALL BE INCLUDED IN THE COST OF THAT ACTIVITY. NO FURTHER COMPENSATION SHALL BE MADE.
- THE CONTRACTOR SHALL PRESERVE ALL ROADWAY SIGNS, SIGN SUPPORTS, OBJECT MARKERS, AND MILEPOST MARKERS. THE CONTRACTOR SHALL REPLACE ANY SIGNS, SIGN SUPPORTS, AND MARKERS DAMAGED AS A RESULT OF THE CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- THE APPROPRIATE LOCAL GOVERNMENT AGENCIES MUST BE NOTIFIED IN ADVANCE CONCERNING DETOUR ROUTES, PER THE SPECIAL PROVISIONS. ANY PERMITS REQUIRED BY THESE AGENCIES MUST BE OBTAINED PRIOR TO START OF WORK WITHIN THEIR JURISDICTIONS.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS CENTER (602) 257-1563, 48 HOURS IN ADVANCE OF ANY FREEWAY LANE RESTRICTIONS OR CLOSURES.

TABLE 3 - REINFORCED BOX CULVERT SUMMARY SHEET- CROSSING HWY 277 (BOX NO 2 - WEST CROSSING) AND (BOX NO 3 - EAST CROSSING)

STATION	PLAN SHEET NUMBER	STRUCTURE NUMBER	NEW	NUMBER OF BARRELS	BARREL SPAN	BARREL HEIGHT	CULVERT LENGTH	SKEW (DEGREE)	B-01:10 MISCELLANEOUS DETAILS	B-01:11 EXTENSION DETAILS	STANDARD OR DETAIL	LOCATION	END TREATMENT				LENGTH OF BARREL & BARREL EXTENSIONS		APPROX. QUANTITIES			REMARKS				
													WINGS	APRONS	MISCELLANEOUS	CONST	BARREL LENGTH	REINFORCING STEEL	PLACE DOWELS	CLASS Fc	CONCRETE		STRUCTURE EXCAVATION	STRUCTURE BACKFILL (L.C.M.S.)	LBS	EA
1164+00 (MP 333.59)	35	2	X	4	6.8	3	60	0	X			LEFT	X	B-04.10	X	B-06.10	X	DETAIL A		30		12,828	89			
												RIGHT	X	B-04.30			X	DETAIL B		30		12,828	89			
1110+00 (MP 335.45)	36	3	X	4	6.8	3	85	44° LT	X			LEFT	X	B-04.10	X	B-06.10	X	DETAIL C		30		14,592	96			
												RIGHT	X	B-04.30			X	DETAIL D		52		25,293	149			



TOWN OF SNOWFLAKE, ARIZONA

SOUTHERN DRAINAGE SOLUTION  
TABLES AND MISCELLANEOUS DETAILS

YOST AND GARDNER ENGINEERS  
2619 N. THIRD STREET PHOENIX, AZ 85004  
DRAWN: BR CHECKED: CRS APR, 2006 - JOB NO. 8569