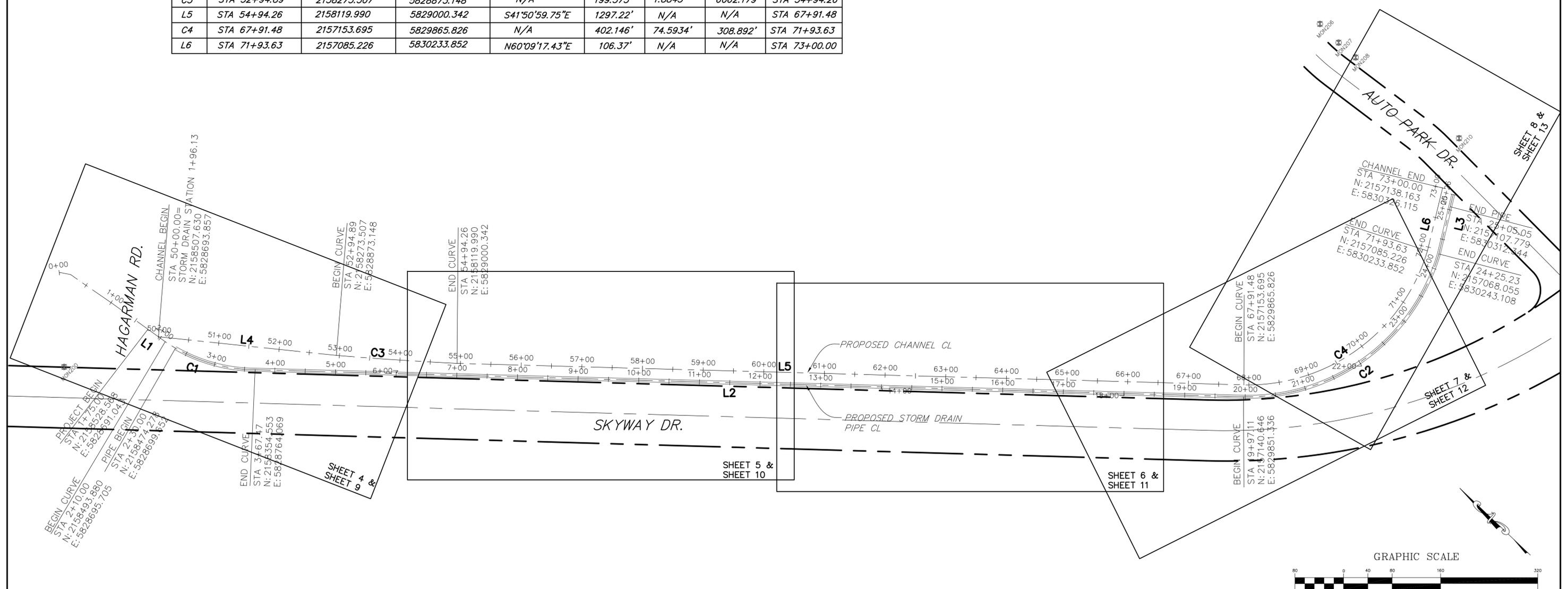






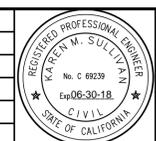
STORM DRAIN PIPE CENTER LINE - LINE & CURVE TABLE								
LINE	START STATION	NORTHING	EASTING	BEARING	LENGTH	DELTA	RADIUS	END STATION
L1	STA 1+75.00	2158528.568	5828691.043	S73°16.80"E	35.00'	N/A	N/A	STA 2+10.00
C1	STA 2+10.00	2158493.880	5828695.705	N/A	157.469'	33.7962	266.961	STA 3+67.47
L2	STA 3+67.47	2158354.553	5828764.069	S41°51'00.04"E	1629.64'	N/A	N/A	STA 19+97.11
C2	STA 19+97.11	2157140.646	5829851.336	N/A	428.121'	74.6960	328.392	STA 24+25.23
L3	STA 24+25.23	2157068.055	5830243.108	N60°09'17.43"E	72.82'	N/A	N/A	STA 25+05.05

STORM DRAIN CHANNEL CENTER LINE - LINE & CURVE TABLE								
LINE	START STATION	NORTHING	EASTING	BEARING	LENGTH	DELTA	RADIUS	END STATION
L4	STA 50+00	2158507.630	5828693.857	S37°26'41.63"E	294.89'	N/A	N/A	STA 52+94.89
C3	STA 52+94.89	2158273.507	5828873.148	N/A	199.373'	1.8843'	6062.179'	STA 54+94.26
L5	STA 54+94.26	2158119.990	5829000.342	S41°50'59.75"E	1297.22'	N/A	N/A	STA 67+91.48
C4	STA 67+91.48	2157153.695	5829865.826	N/A	402.146'	74.5934'	308.892'	STA 71+93.63
L6	STA 71+93.63	2157085.226	5830233.852	N60°09'17.43"E	106.37'	N/A	N/A	STA 73+00.00



UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES ARE NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE. THE USER CONTRACTOR'S LICENSE THE CONTRACTOR SHALL PROCEED AT HIS OR HER OWN RISK AND AT HIS OR HER OWN RISK.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: **K.M. Sullivan** 05-05-2017  
 FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440

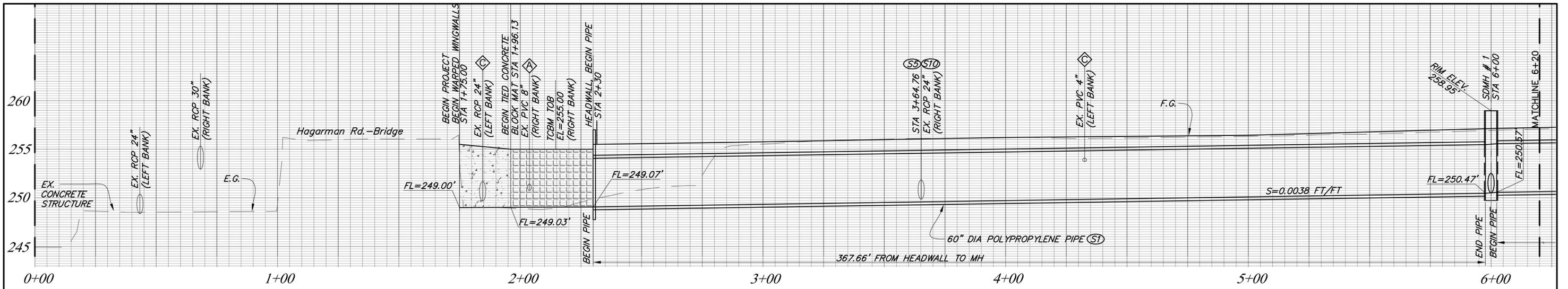


SANTA MARIA AIRPORT DITCH  
 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

HORIZONTAL CONTROL  
 AND PLAN SHEET LAYOUT

DESIGNED BY: KS  
 DRAWN BY: OR  
 CHECKED BY: JF

**O-1133**  
 SHEET 3 OF 22  
 Filename: AIRPORT\_DITCH\_master\_design.dwg



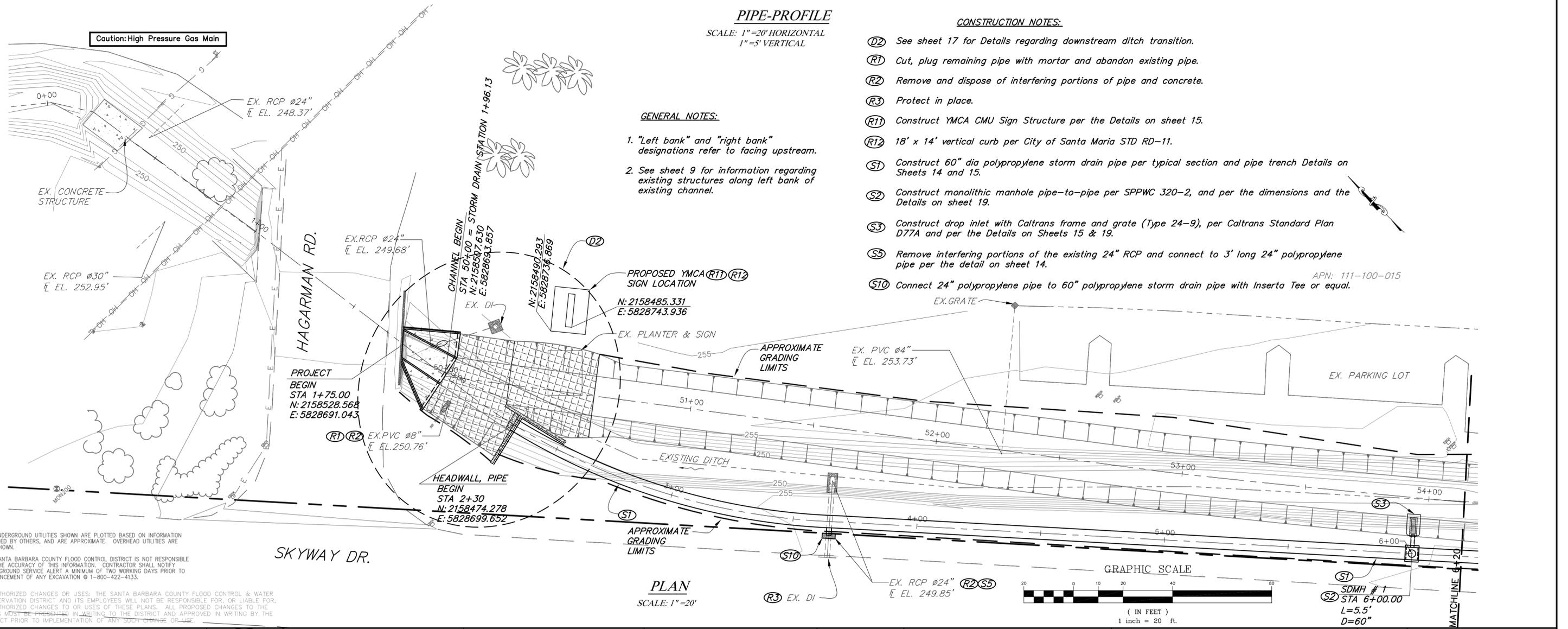
**PIPE-PROFILE**  
 SCALE: 1"=20' HORIZONTAL  
 1"=5' VERTICAL

**CONSTRUCTION NOTES:**

- (D2) See sheet 17 for Details regarding downstream ditch transition.
- (R1) Cut, plug remaining pipe with mortar and abandon existing pipe.
- (R2) Remove and dispose of interfering portions of pipe and concrete.
- (R3) Protect in place.
- (R11) Construct YMCA CMU Sign Structure per the Details on sheet 15.
- (R12) 18' x 14' vertical curb per City of Santa Maria STD RD-11.
- (S1) Construct 60" dia polypropylene storm drain pipe per typical section and pipe trench Details on Sheets 14 and 15.
- (S2) Construct monolithic manhole pipe-to-pipe per SPPWC 320-2, and per the dimensions and the Details on sheet 19.
- (S3) Construct drop inlet with Caltrans frame and grate (Type 24-9), per Caltrans Standard Plan D77A and per the Details on Sheets 15 & 19.
- (S5) Remove interfering portions of the existing 24" RCP and connect to 3' long 24" polypropylene pipe per the detail on sheet 14.
- (S10) Connect 24" polypropylene pipe to 60" polypropylene storm drain pipe with Inserta Tee or equal.

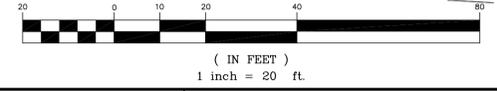
**GENERAL NOTES:**

1. "Left bank" and "right bank" designations refer to facing upstream.
2. See sheet 9 for information regarding existing structures along left bank of existing channel.



**PLAN**  
 SCALE: 1"=20'

GRAPHIC SCALE

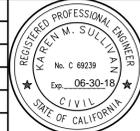


ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: **K.M. Sullivan** 05-05-2017  
 FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440

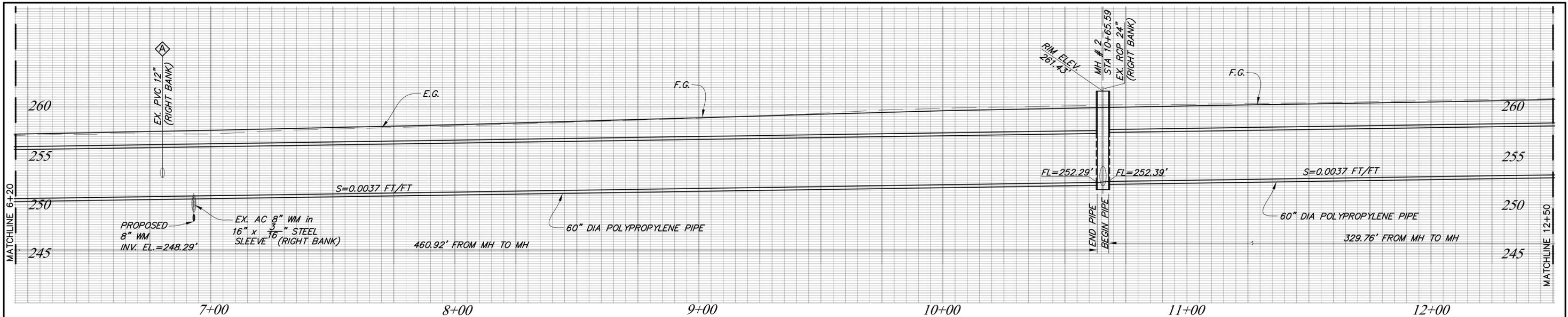


SANTA MARIA AIRPORT DITCH  
 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

**STORM DRAIN  
 PIPE PLAN AND PROFILE**

DESIGNED BY: KS  
 DRAWN BY: OR  
 CHECKED BY: JF

**O-1133**  
 SHEET 4 OF 22  
 Filename: AIRPORT\_DITCH\_master\_design.dwg



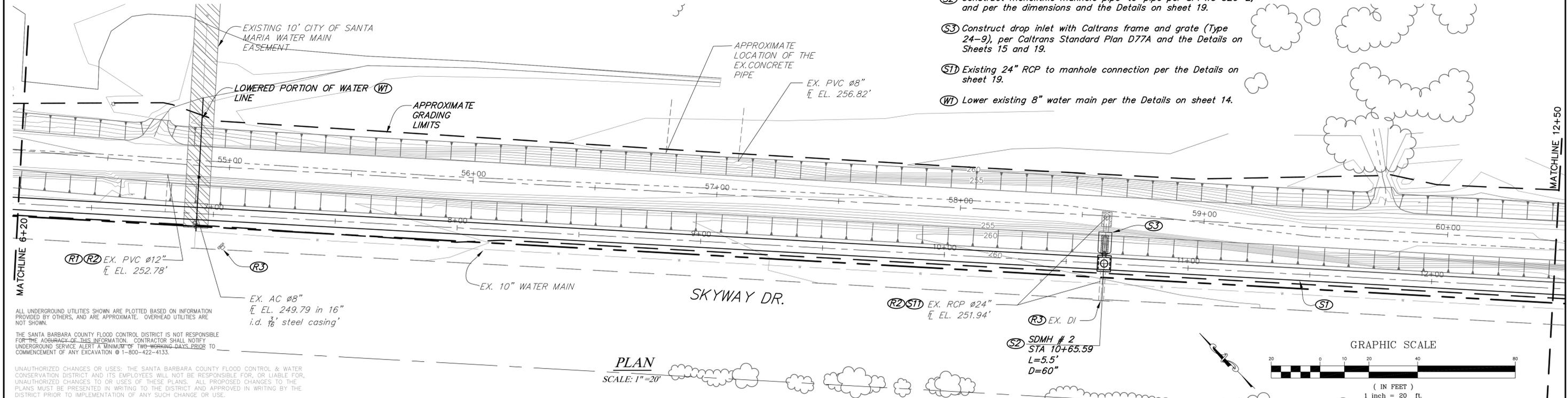
**PIPE-PROFILE**  
 SCALE: 1"=20' HORIZONTAL  
 1"=5' VERTICAL

**GENERAL NOTES:**

- "Left bank" and "right bank" designations refer to facing upstream.
- See sheet 10 for information regarding existing structures along left bank of existing channel.

**CONSTRUCTION NOTES:**

- (R1) Cut, plug remaining pipe with mortar and abandon existing pipe.
- (R2) Remove and dispose of interfering portions of pipe and concrete.
- (R3) Protect in place.
- (S1) Construct 60" dia. polypropylene storm drain pipe per typical sections and pipe trench detail on Sheets 14 and 15.
- (S2) Construct monolithic manhole pipe-to-pipe per SPPWC 320-2, and per the dimensions and the Details on sheet 19.
- (S3) Construct drop inlet with Caltrans frame and grate (Type 24-9), per Caltrans Standard Plan D77A and the Details on Sheets 15 and 19.
- (S1) Existing 24" RCP to manhole connection per the Details on sheet 19.
- (W1) Lower existing 8" water main per the Details on sheet 14.



**PLAN**  
 SCALE: 1"=20'

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

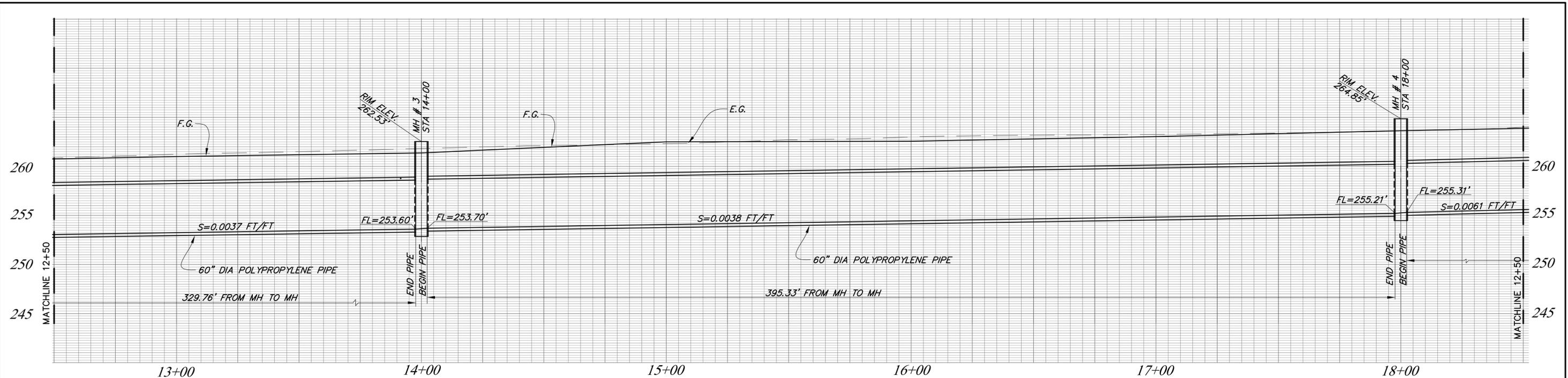
REVISIONS				DESIGNED BY: <i>K.M. Sullivan</i> FLOOD CONTROL DESIGN ENGINEER	DATE: 05-05-2017	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440	SANTA BARBARA COUNTY WATER RESOURCES	SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	STORM DRAIN PIPE PLAN AND PROFILE	DESIGNED BY: KS	DRAWN BY: OR	CHECKED BY: JF	O-1133 SHEET 5 OF 22
NO.	DESCRIPTION	DATE	APR										



O-1133

SHEET 5 OF 22

Filename: AIRPORT\_DITCH\_master\_design.dwg



**PIPE-PROFILE**

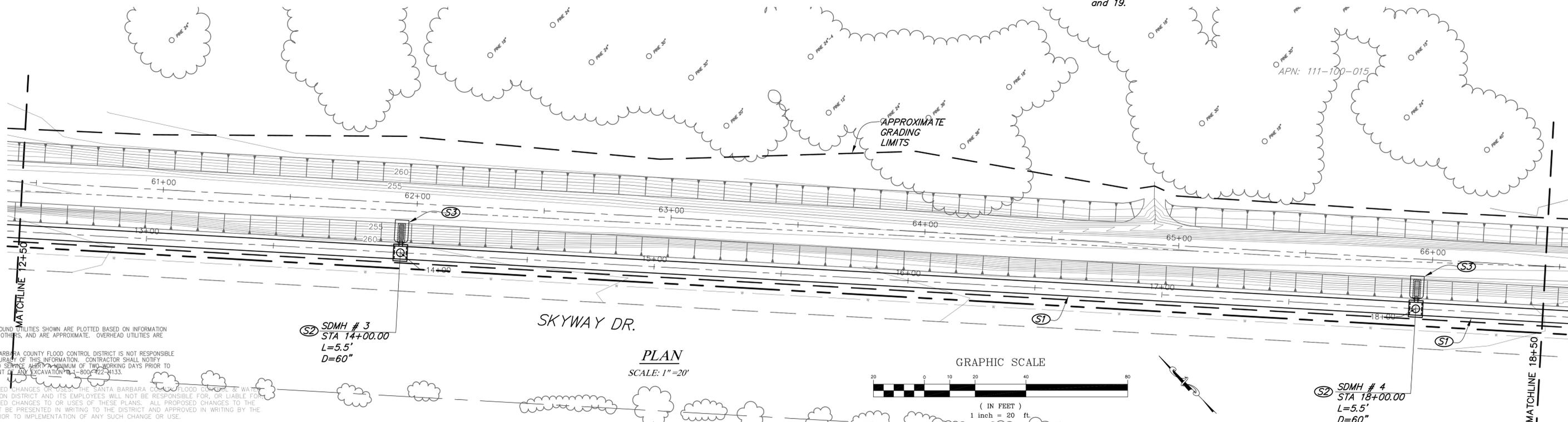
SCALE: 1"=20' HORIZONTAL  
1"=5' VERTICAL

**GENERAL NOTES:**

1. "Left bank" and "right bank" designations refer to facing upstream.
2. See sheet 11 for information regarding existing structures along Left bank of existing channel.

**CONSTRUCTION NOTES:**

- (S1) Construct 60" dia. polypropylene storm drain pipe per typical section and pipe trench details on Sheets 14 and 15.
- (S2) Construct monolithic manhole pipe-to-pipe per SPPWC 320-2. And dimensions per the Details on sheet 19.
- (S3) Construct drop inlet with Caltrans frame and grate (Type 24-9), per Caltrans Standard Plan D77A and the Details on sheets 15 and 19.



**PLAN**

SCALE: 1"=20'

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE AGENCY MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION. 1-800-472-4133.

UNAUTHORIZED CHANGES OR USES OF THESE PLANS BY ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE DISTRICT ARE PROHIBITED. THE DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: *K.M. Sullivan*  
FLOOD CONTROL DESIGN ENGINEER  
05-05-2017  
DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

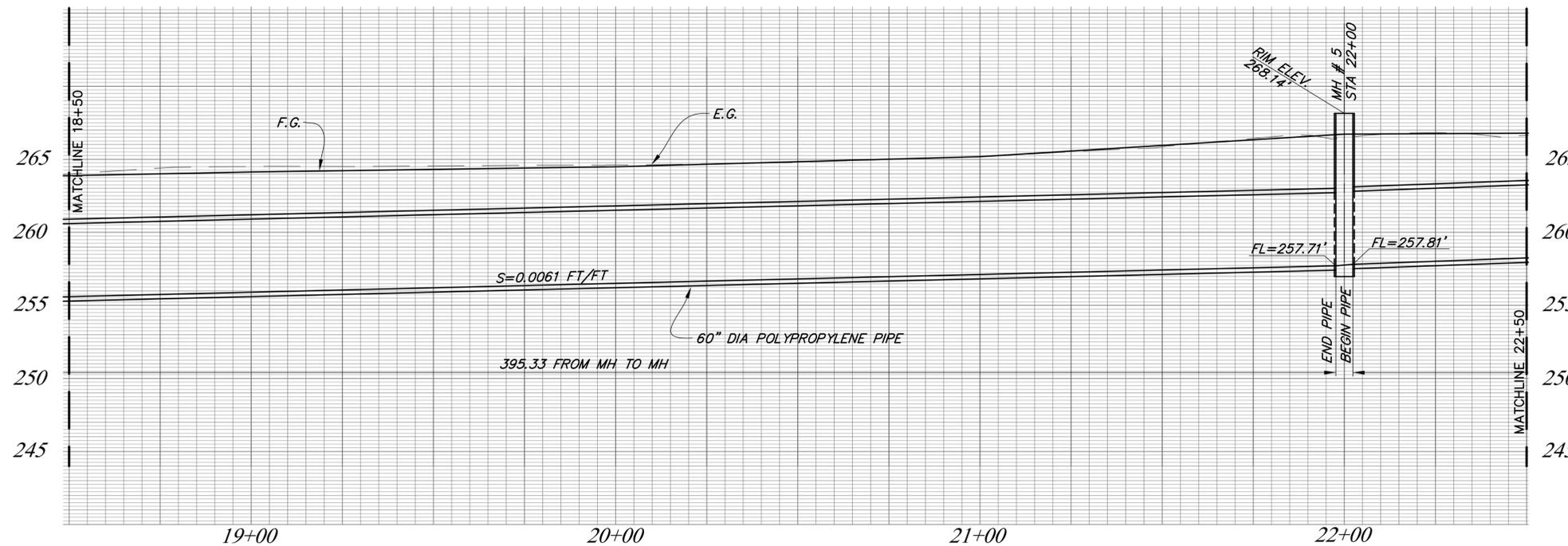


SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

**STORM DRAIN  
PIPE PLAN AND PROFILE**

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF

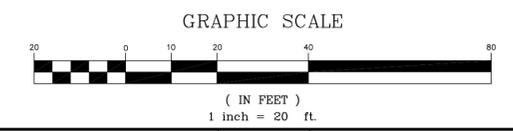
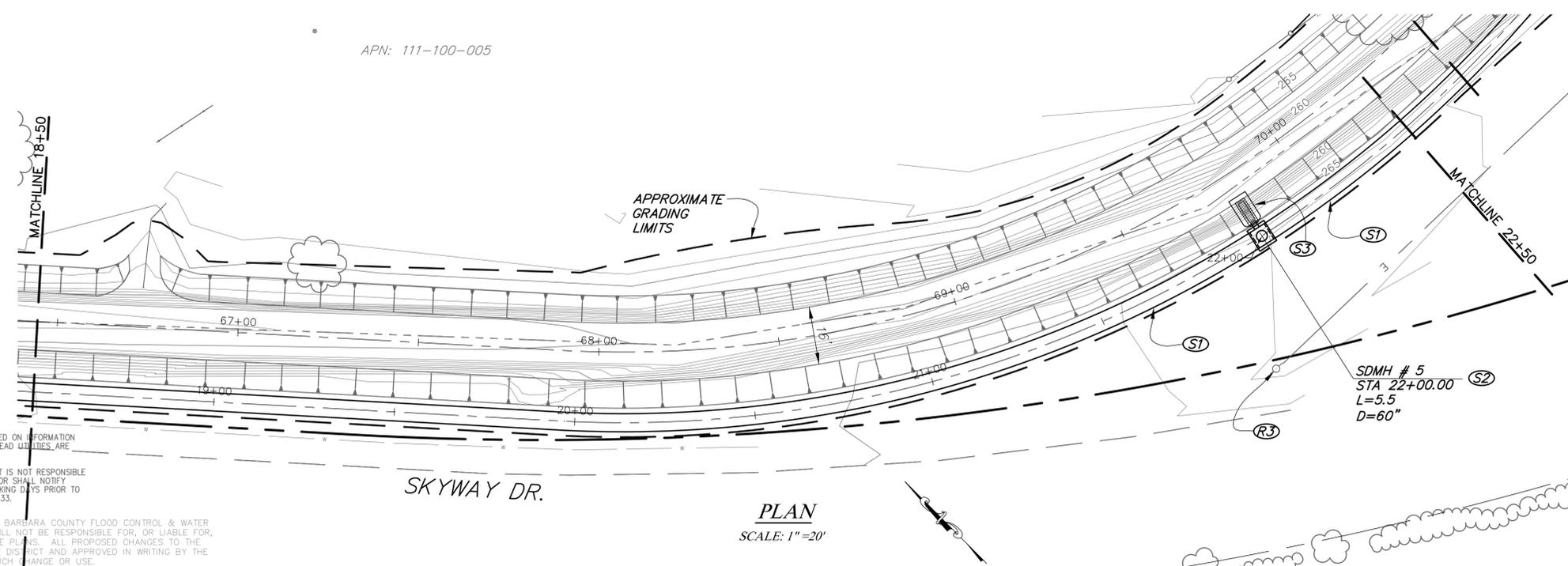
**O-1133**  
SHEET 6 OF 22  
Filename: AIRPORT\_DITCH\_master\_design.dwg



- CONSTRUCTION NOTES:**
- (R3) Protect in place.
  - (S1) Construct 60" dia. polypropylene storm drain pipe per typical sections and pipe trench details on sheets 14 and 15.
  - (S2) Construct manhole pipe-to-pipe per SPPWC 320-2 with eccentric reducer per SPPWC 324-2, and per the dimensions and the Detail on sheet 19.
  - (S3) Construct drop inlet with Caltrans frame and grate (Type 24-9), per Caltrans Standard Plan D77A and the Details on sheets 15 and 19.

- GENERAL NOTES:**
1. "Left bank" and "right bank" designations refer to facing upstream.
  2. See sheet 12 for information regarding existing structures along left bank of existing channel.

**PIPE-PROFILE**  
 SCALE: 1"=20' HORIZONTAL  
 1"=5' VERTICAL

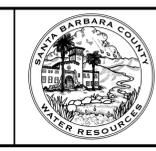
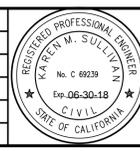


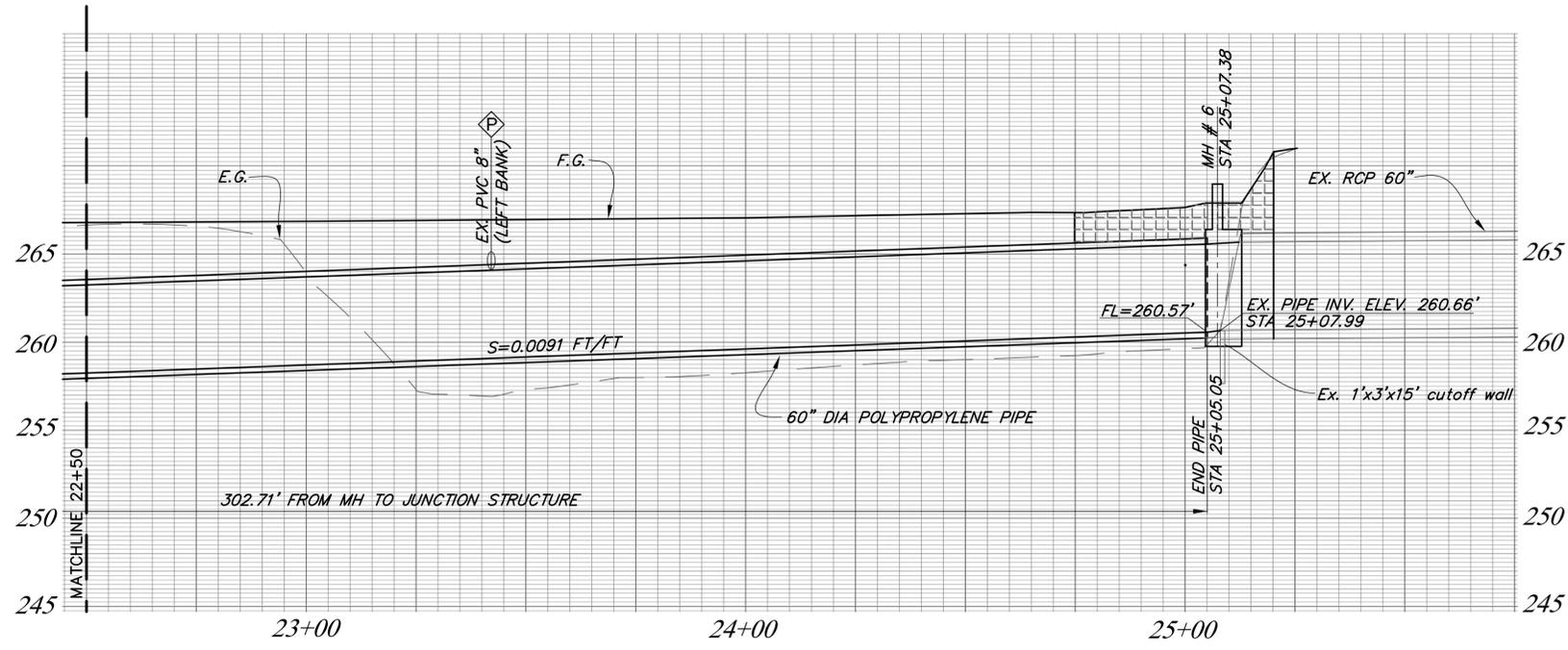
ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS				DESIGNED BY <i>KMSullivan</i> FLOOD CONTROL DESIGN ENGINEER	DATE 05-05-2017	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440	SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	STORM DRAIN PIPE PLAN AND PROFILE		DESIGNED BY: KS	DRAWN BY: OR	CHECKED BY: JF	O-1133 SHEET 7 OF 22
NO.	DESCRIPTION	DATE	APR					FILENAME: AIRPORT_DITCH_master_design.dwg					

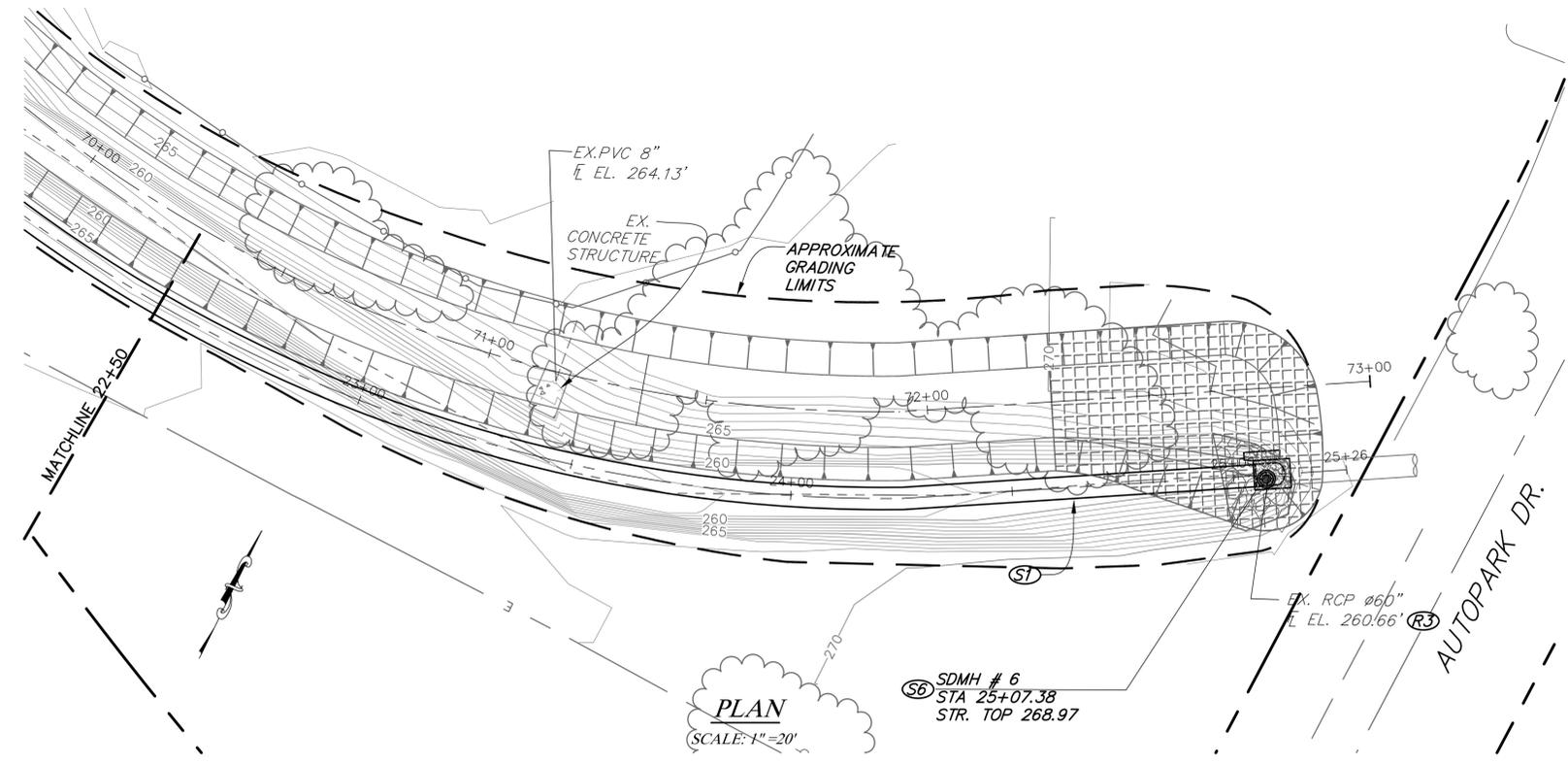




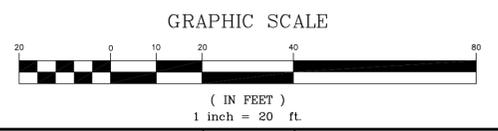
**PIPE-PROFILE**  
 SCALE: 1" = 20' HORIZONTAL  
 1" = 5' VERTICAL

- CONSTRUCTION NOTES:**
- (R3) Protect in place.
  - (S1) Construct 60" dia. polypropylene storm drain pipe per typical sections and pipe trench details on Sheets 14 and 15.
  - (S6) Construct manhole pipe-to-pipe per SPPWC 322-2, side opening per SPPWC-310-3 and per the Detail on sheet 16.

- GENERAL NOTES:**
1. "Left bank" and "right bank" designations refer to facing upstream.
  2. See sheet 13 for information regarding existing structures along left bank of existing channel.



**PLAN**  
 SCALE: 1" = 20'



ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

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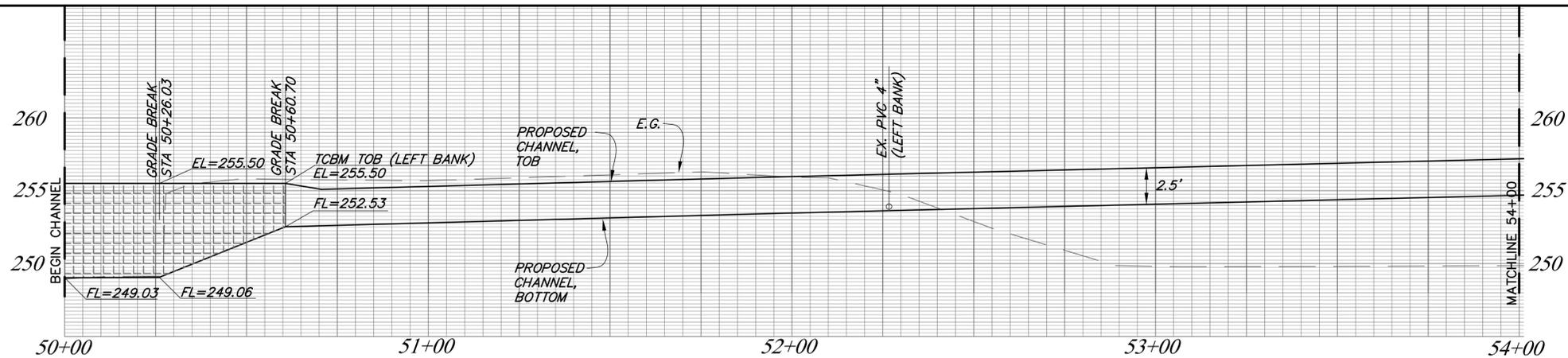
REVISIONS				DESIGNED BY <i>KMSullivan</i> FLOOD CONTROL DESIGN ENGINEER	DATE 05-05-2017	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440	SANTA BARBARA COUNTY WATER RESOURCES	SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	STORM DRAIN PIPE PLAN AND PROFILE	DESIGNED BY: KS	DRAWN BY: OR	CHECKED BY: JF	O-1133 SHEET 8 OF 22
NO.	DESCRIPTION	DATE	APR										



O-1133

SHEET 8 OF 22

Filename: AIRPORT\_DITCH\_master\_design.dwg

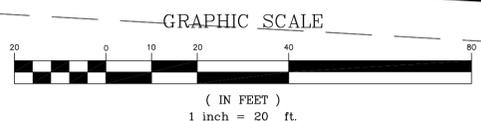
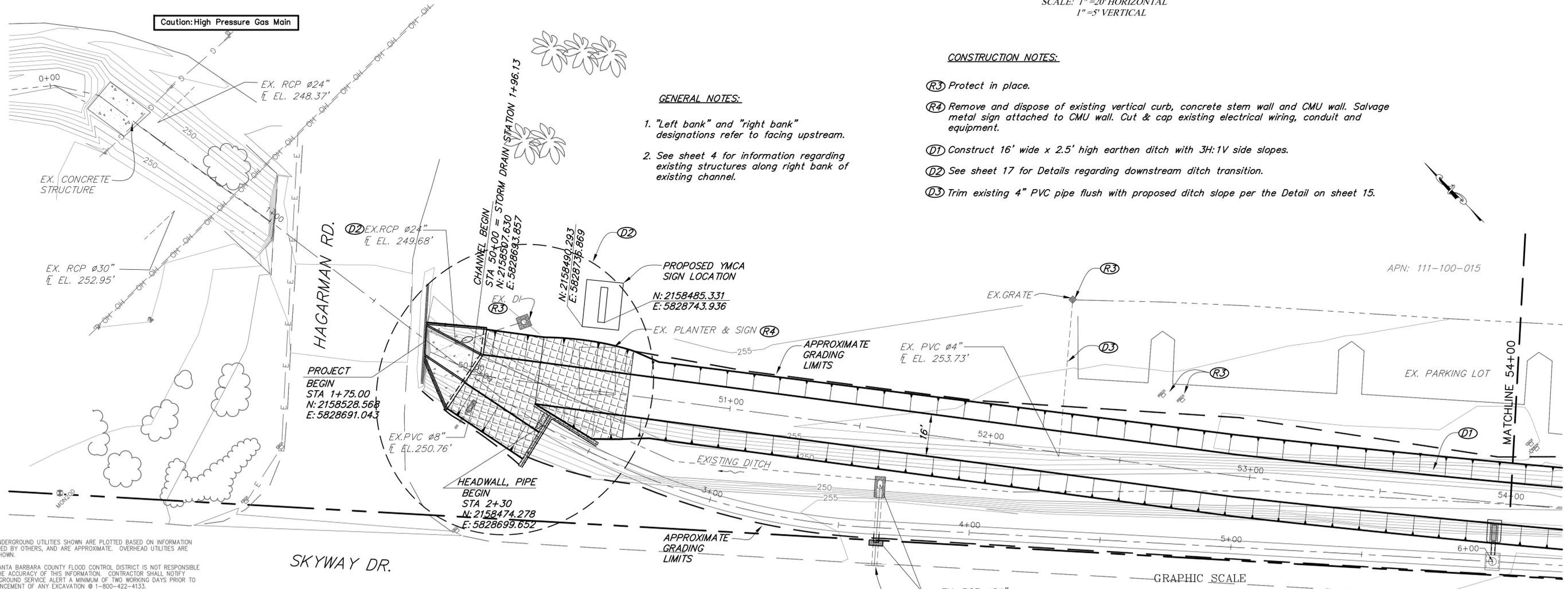


**CONSTRUCTION NOTES:**

- (R3) Protect in place.
- (R4) Remove and dispose of existing vertical curb, concrete stem wall and CMU wall. Salvage metal sign attached to CMU wall. Cut & cap existing electrical wiring, conduit and equipment.
- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D2) See sheet 17 for Details regarding downstream ditch transition.
- (D3) Trim existing 4" PVC pipe flush with proposed ditch slope per the Detail on sheet 15.

**GENERAL NOTES:**

- 1. "Left bank" and "right bank" designations refer to facing upstream.
- 2. See sheet 4 for information regarding existing structures along right bank of existing channel.

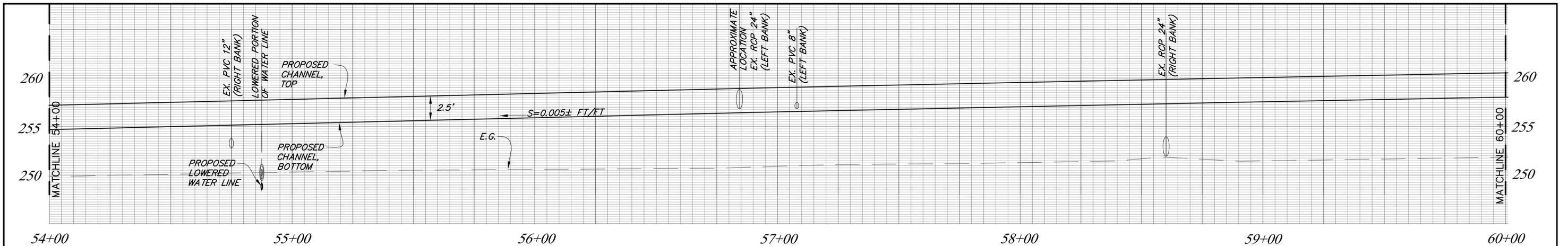


ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

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REVISIONS																														
NO.	DESCRIPTION	DATE	APR																											



**CHANNEL PROFILE**

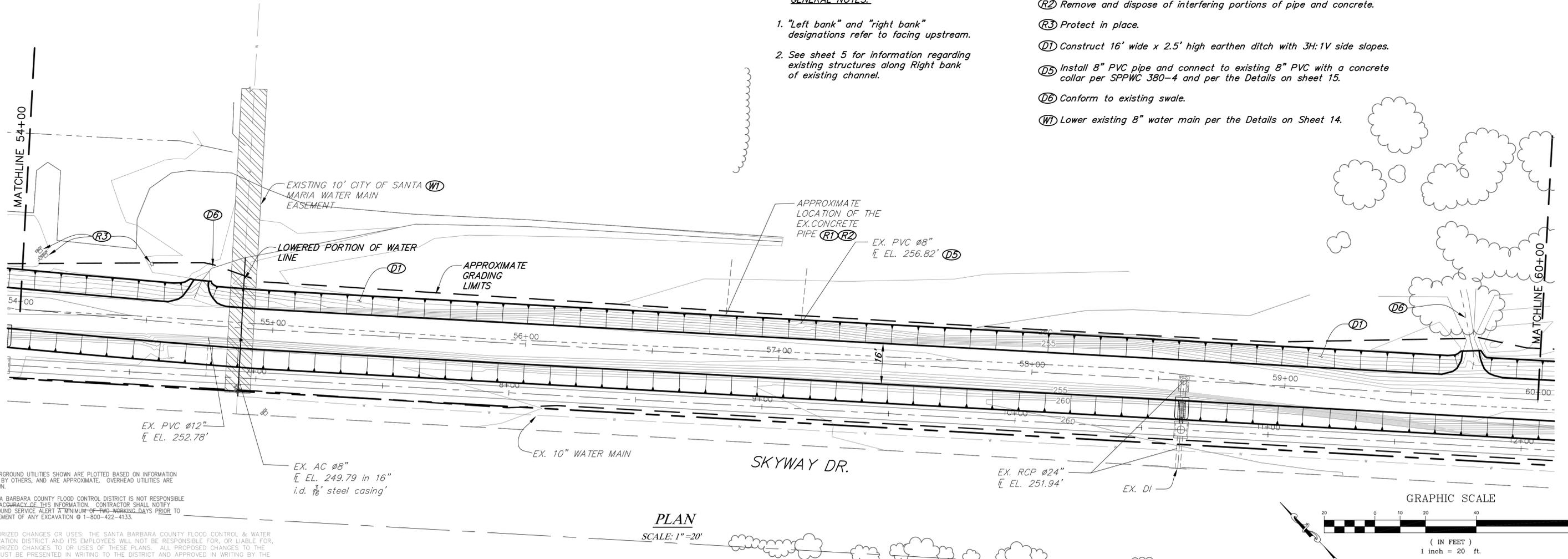
SCALE: 1"=20' HORIZONTAL  
1"=5' VERTICAL

**CONSTRUCTION NOTES:**

- (R1) Cut, plug remaining pipe with mortar and abandon existing pipe.
- (R2) Remove and dispose of interfering portions of pipe and concrete.
- (R3) Protect in place.
- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D5) Install 8" PVC pipe and connect to existing 8" PVC with a concrete collar per SPPWC 380-4 and per the Details on sheet 15.
- (D6) Conform to existing swale.
- (W1) Lower existing 8" water main per the Details on Sheet 14.

**GENERAL NOTES:**

1. "Left bank" and "right bank" designations refer to facing upstream.
2. See sheet 5 for information regarding existing structures along Right bank of existing channel.



**PLAN**

SCALE: 1"=20'

GRAPHIC SCALE

( IN FEET )  
1 inch = 20 ft.

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: *K.M. Sullivan*  
FLOOD CONTROL DESIGN ENGINEER  
05-05-2017  
DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440



SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

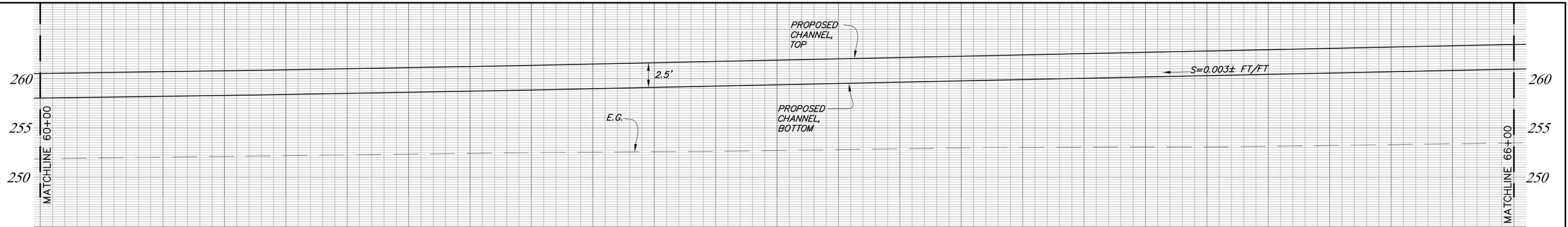
**OPEN CHANNEL  
PLAN AND PROFILE**

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF

**O-1133**

SHEET 10 OF 22

Filename: AIRPORT\_DITCH\_master\_design.dwg

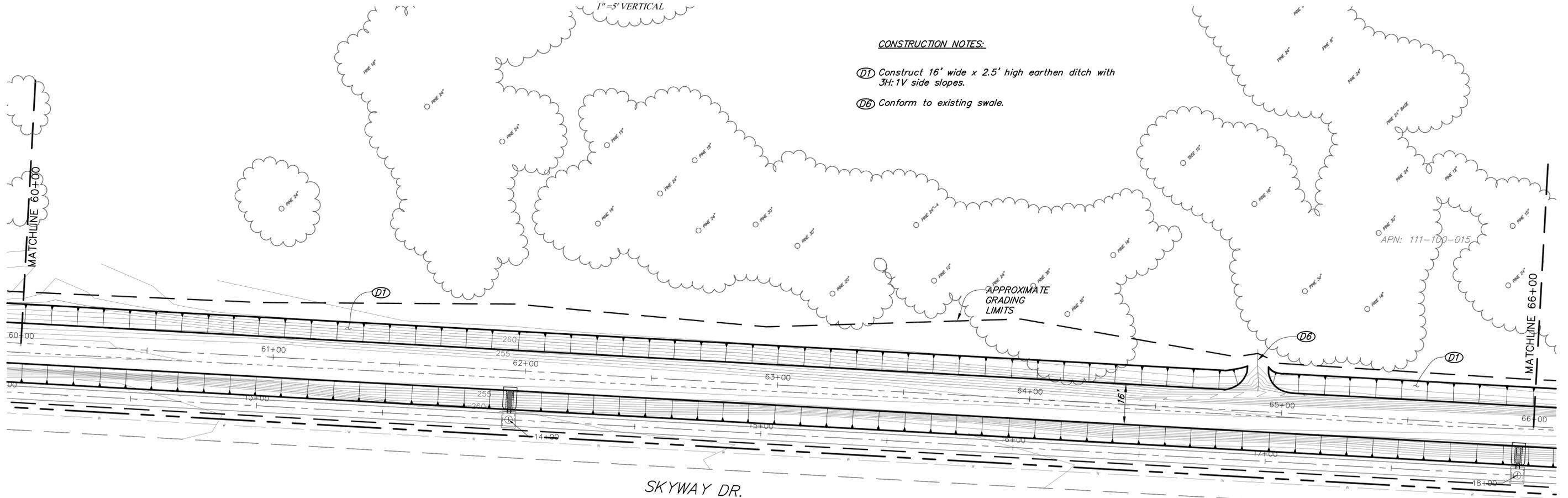


60+00                      61+00                      62+00                      63+00                      64+00                      65+00                      66+00

**CHANNEL PROFILE**  
 SCALE: 1"=20' HORIZONTAL  
 1"=5' VERTICAL

**CONSTRUCTION NOTES:**

- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D6) Conform to existing swale.



SKYWAY DR.

GRAPHIC SCALE

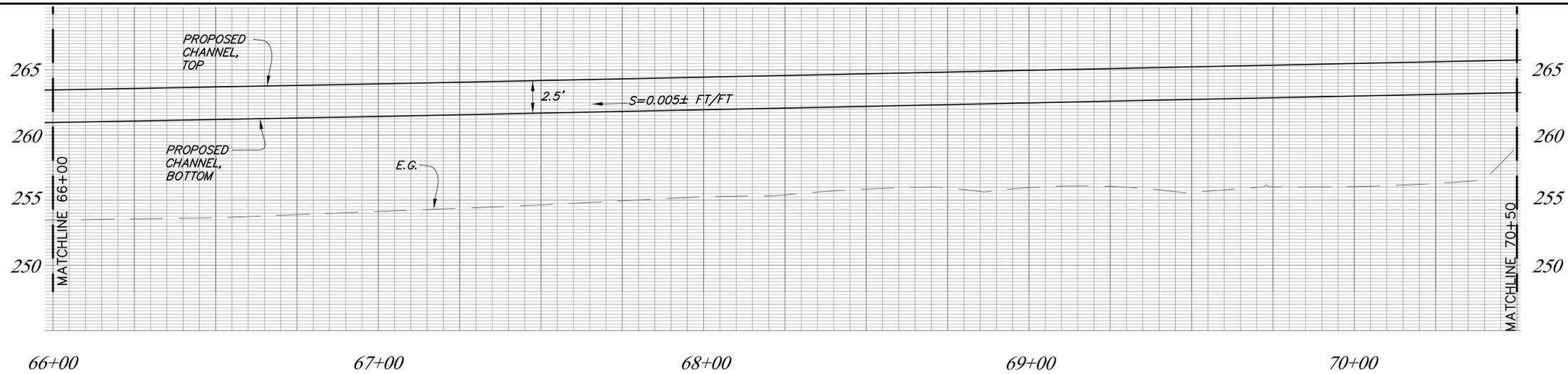


**PLAN**  
 SCALE: 1"=20'

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS AND ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

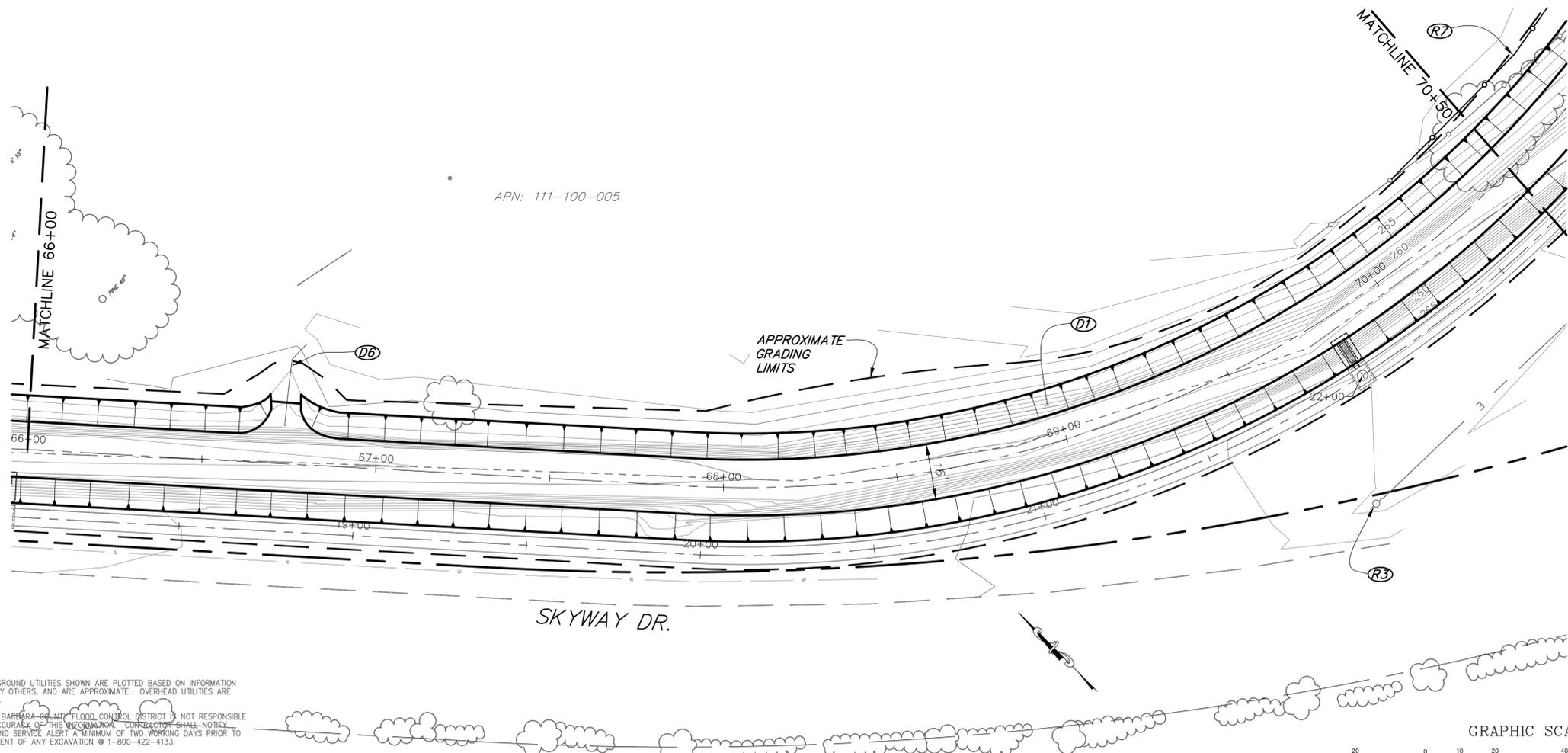
UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APR</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				NO.	DESCRIPTION	DATE	APR														DESIGNED BY: <b>K.M. Sullivan</b> FLOOD CONTROL DESIGN ENGINEER DATE: 05-05-2017	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	<b>OPEN CHANNEL          PLAN AND PROFILE</b>	DESIGNED BY: KS DRAWN BY: OR CHECKED BY: JF	<b>O-1133</b> SHEET 11 OF 22 <small>Filename: AIRPORT_DITCH_master_design.dwg</small>
REVISIONS																															
NO.	DESCRIPTION	DATE	APR																												



**CHANNEL PROFILE**

SCALE: 1" = 20' HORIZONTAL  
1" = 5' VERTICAL

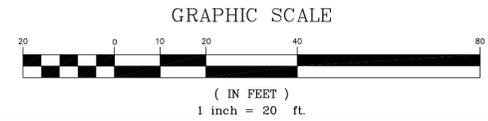


**CONSTRUCTION NOTES:**

- (R3) Protect in place.
- (R7) Remove and replace chain link fence.
- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D6) Conform to existing swale.

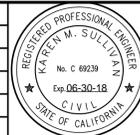
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**PLAN**  
SCALE: 1" = 20'

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: *K.M. Sullivan* 05-05-2017  
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

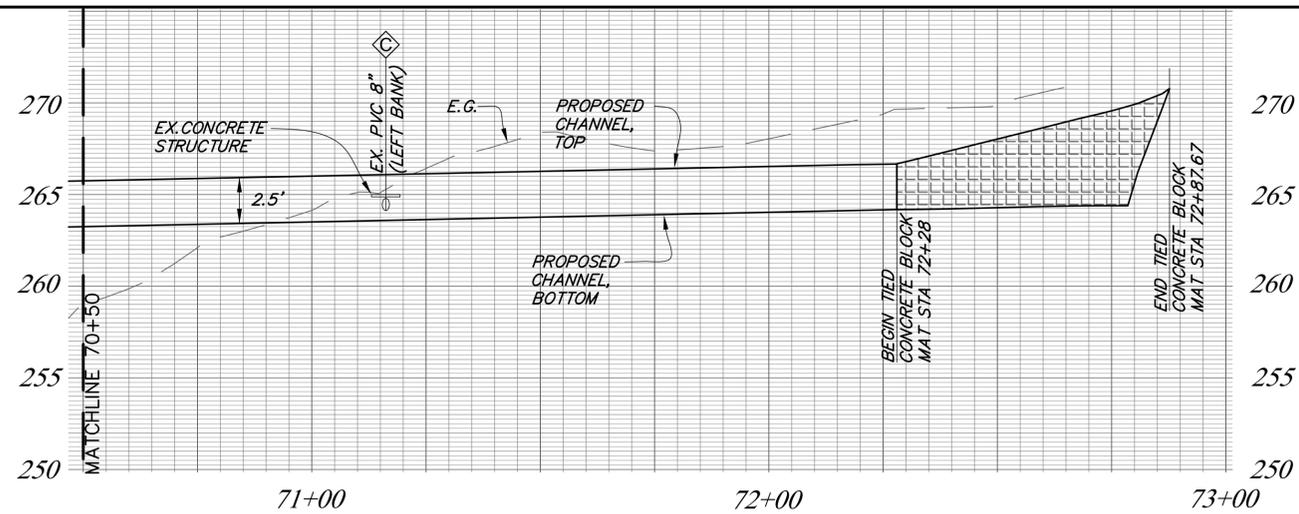


SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

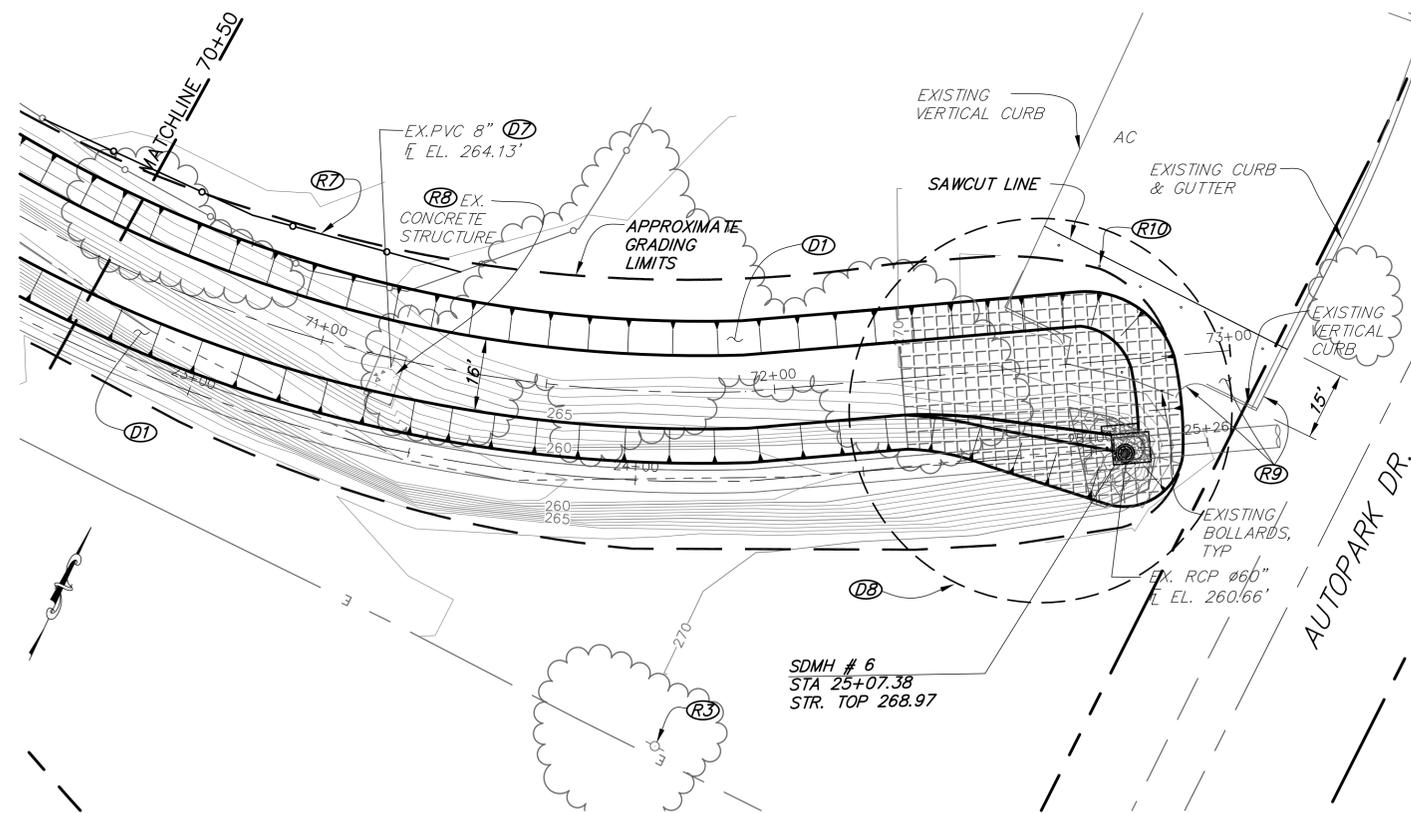
**OPEN CHANNEL  
PLAN AND PROFILE**

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF

**O-1133**  
SHEET 12 OF 22  
Filename: AIRPORT\_DITCH\_master\_design.dwg



**CHANNEL PROFILE**  
 SCALE: 1" = 20' HORIZONTAL  
 1" = 5' VERTICAL

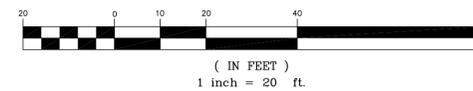


**PLAN**  
 SCALE: 1" = 20'

**CONSTRUCTION NOTES:**

- (R3) Protect in place.
- (R7) Remove and replace chain link fence.
- (R8) Remove and dispose of existing concrete structure.
- (R9) Sawcut & remove vertical curb, curb and gutter, bollards and AC pavement to the limits shown.
- (R10) Place 6 bollards @ 10' on center per City of Santa Maria Standard Plan MS-12.
- (D1) Construct 16' wide x 2.5' high earthen ditch with 3H:1V side slopes.
- (D7) Trim 8" PVC pipe, flush with proposed ditch slope per the Details on sheet 15.
- (D8) See sheet 16 for Details, Upstream ditch transition.

**GRAPHIC SCALE**



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NO.	DESCRIPTION	DATE	APR



DESIGNED BY:  
*K.M. Sullivan* 05-05-2017  
 FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440



SANTA MARIA AIRPORT DITCH  
 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

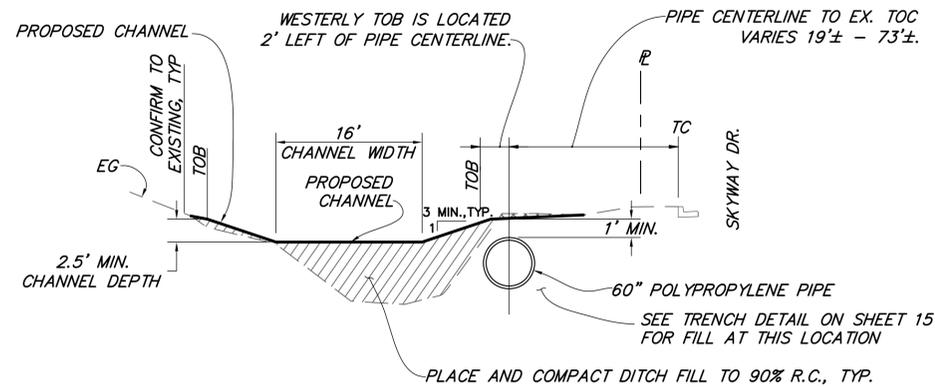
**OPEN CHANNEL  
 PLAN AND PROFILE**

DESIGNED BY:  
 KS  
 DRAWN BY:  
 OR  
 CHECKED BY:  
 JF

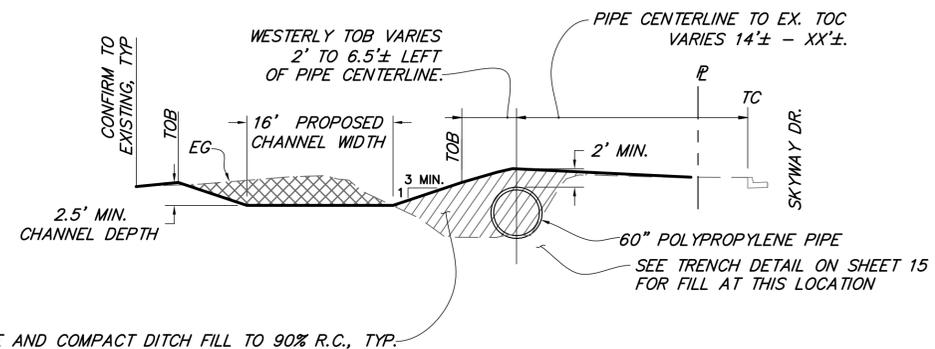
**O-1133**

SHEET 13 OF 22

Filename: AIRPORT\_DITCH\_master\_design.dwg



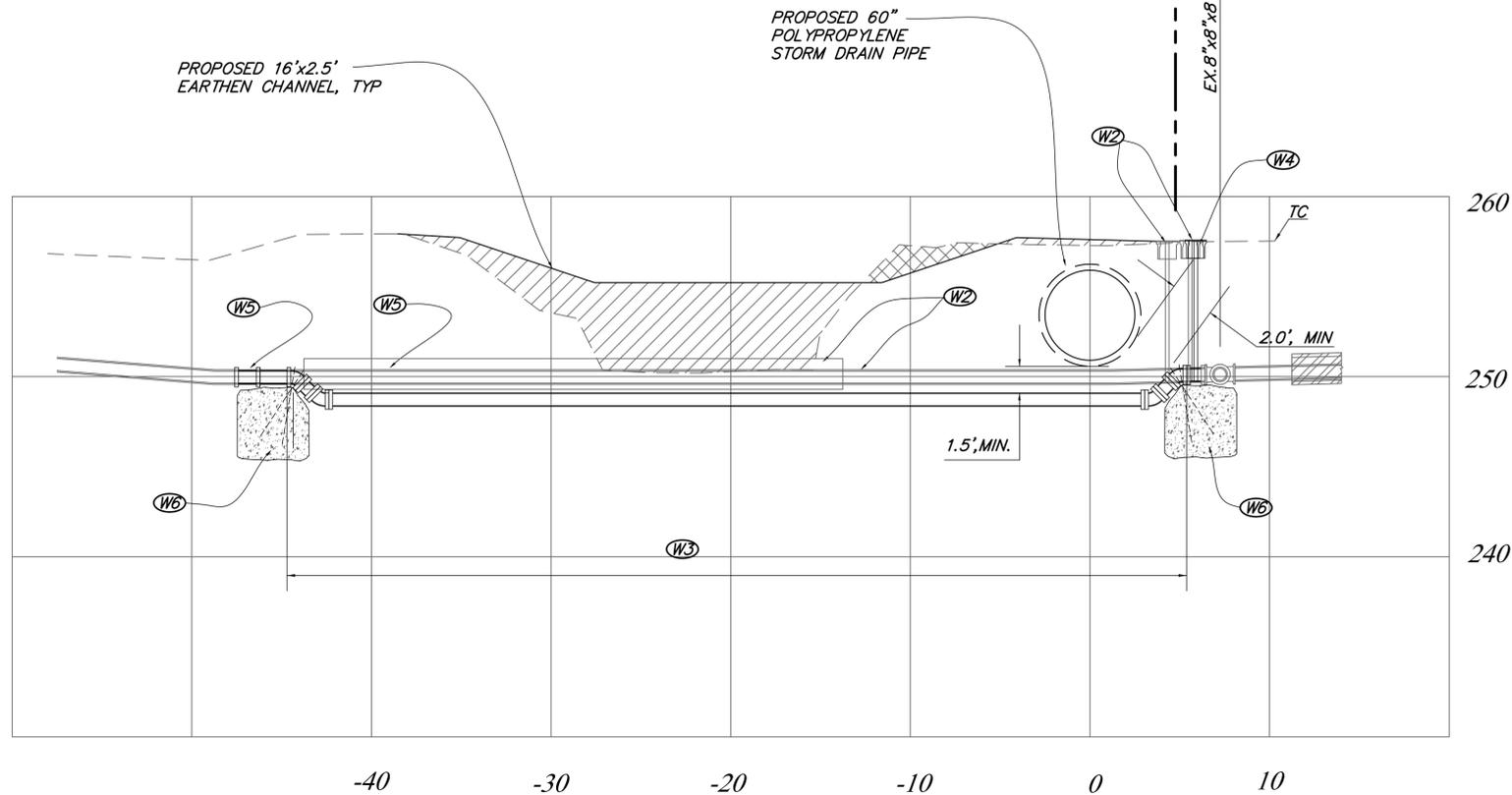
**PROPOSED TYPICAL SECTION**  
**PIPE STA 2+30± TO STA 7+00±**  
**NTS**



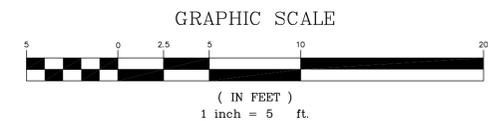
**PROPOSED TYPICAL SECTION**  
**PIPE STA 7+00± TO STA 24+60.12±**  
**NTS**

**PROPOSED TYPICAL SECTION NOTES:**

1. When performing ditch fill or ditch excavation within tops of banks of the existing ditch, remove existing soils to a depth of 2 feet vertically, replace fill and compact as described in section 19-2 of the project Technical Provisions.

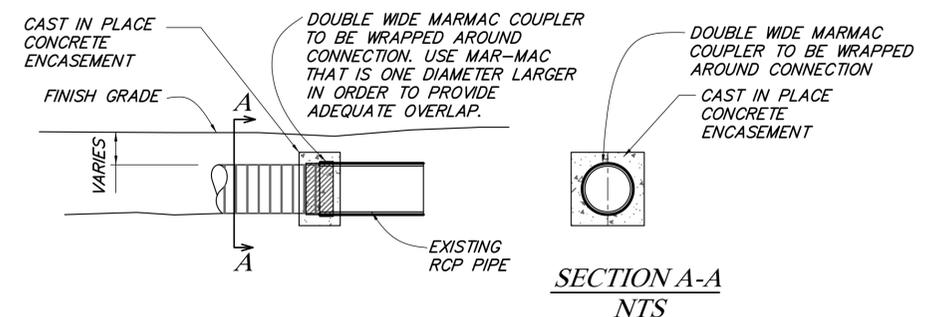


**STA 6+93.03**  
**water line lowering**  
 SCALE: 1"=5' HORIZONTAL  
 1"=5' VERTICAL



**CONSTRUCTION NOTES:**

- STA 6+93.03**
- (W2) Remove and dispose of existing gate valves, interfering portions AC pipe, steel sleeve and fittings.
  - (W3) 8" ductile iron water main lowering per City of Santa Maria Standard Drawing WA-28A.
  - (W4) Install 8" resilient wedge gate valve, box, riser and valve stem extension per City of Santa Maria Standard Drawings WA-12A, WA-21B and WA-22A. Connect to existing tee.
  - (W5) Install 8" ductile iron to AC transition coupling, Romac, Mueller, JCM or approved equal.
  - (W6) Thrust block per City of Santa Maria Standard Drawing WA-13.



**PROPOSED "HP TO RCP CONNECTION DETAIL" NOTES:**

1. An internal cylinder may be welded to the pipe to be inserted into the ID of the existing pipe and minimize joint movement. However, an internal cylinder is not recommended for downstream connections.

**POLYPROPYLENE TO RCP CONNECTION DETAIL**  
**NTS**

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REVISIONS				DESIGNED BY: KS	DRAWN BY: OR	CHECKED BY: JF	SHEET 14 OF 22
NO.	DESCRIPTION	DATE	APR				

**KMSullivan**  
 FLOOD CONTROL DESIGN ENGINEER  
 05-05-2017  
 DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440

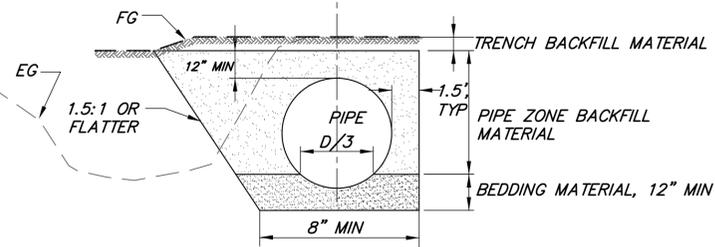
SANTA BARBARA COUNTY  
 WATER RESOURCES

SANTA MARIA AIRPORT DITCH  
 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

TYPICAL CHANNEL-SECTIONS  
 AND PIPE TRENCH DETAILS

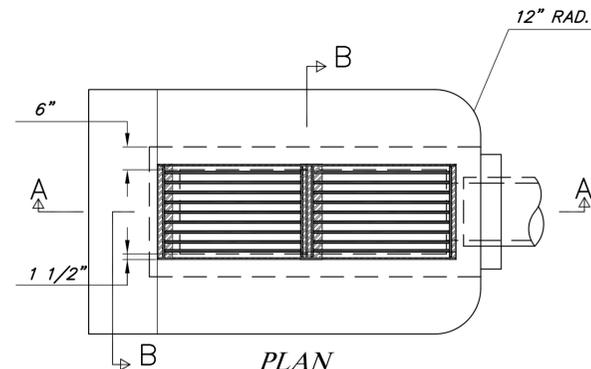
**O-1133**

SLOPING TRENCH CONDITION      SHORED TRENCH CONDITION

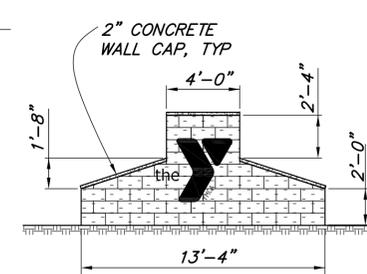


**PIPE TRENCH DETAIL**  
NTS

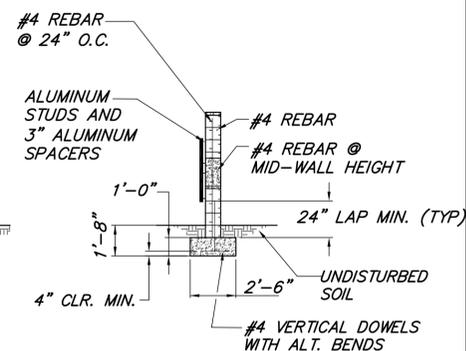
DROP INLET I.D.	d	c
DI 1 STA 6+00	0.83'	0.25'
DI 2 STA 10+65.59	0.82'	1.15'
DI 3 STA 14+00	0.89'	1.06'
DI 4 STA 18+00	0.89'	1.12'
DI 5 STA 22+00	0.80'	1.62'



**PLAN**  
Scale: 1"=2'



**YMCA CMU SIGN STRUCTURE**  
NTS

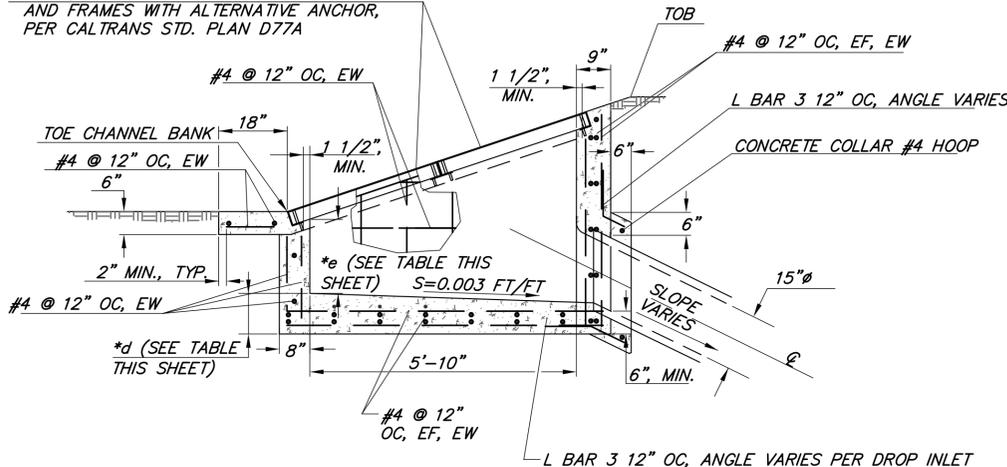


**SECTION B-B**  
Scale: 1"=2'  
GRAPHIC SCALE

**PIPE TRENCH DETAIL NOTES**

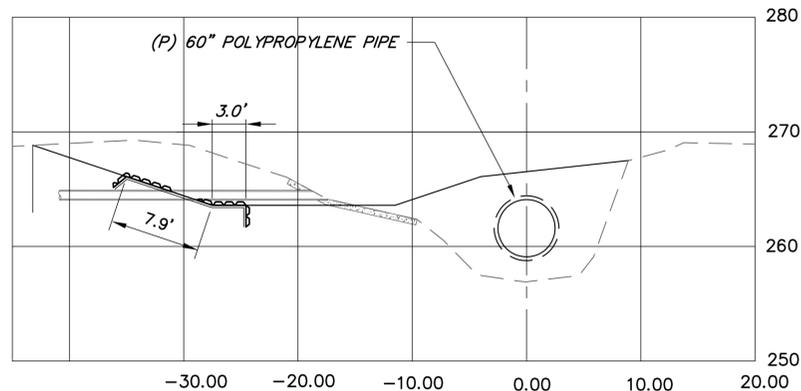
- Where depth between F.G. and top of pipe  $\geq 2'$ , bedding and pipe zone material shall conform to Greenbook Section 306-1.2.1, with a sand equivalent of at  $\geq 30$ , and a moisture content within 2% of optimum.
- Where depth between F.G. and top of pipe  $< 2'$ , bedding and pipe zone material shall consist of Class 1 material (crushed angular rock) conforming to ASTM D2321.
- Where wet or yielding soil conditions are encountered at the bottom of the trench excavation, the subgrade shall be stabilized prior to placing bedding according to the recommendations of the Special Provisions.
- Trench backfill must be free of organics, debris or rocks  $> 3"$ , must contain  $< 15\%$  material  $\geq 2"$ , must have a moderate to low expansion potential ( $E1 \leq 50$ ), a sand equivalent of  $\geq 20$  and a moisture content within 2% of optimum.
- All material shall be placed in loose lift thickness  $\leq 8"$  and mechanically compacted to  $\geq 90\%$  RC as determined by ASTM D1557.
- Trenches 5' or deeper require a protection system considering of benching, sloping or shoring per OSHA Standard.

2 EA., TYPE 24-9 RECTANGULAR GRATE AND FRAMES WITH ALTERNATIVE ANCHOR, PER CALTRANS STD. PLAN D77A

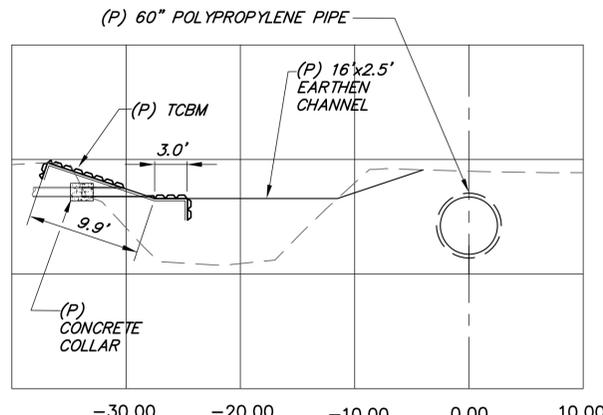


**SECTION A-A**  
Scale: 1"=2'

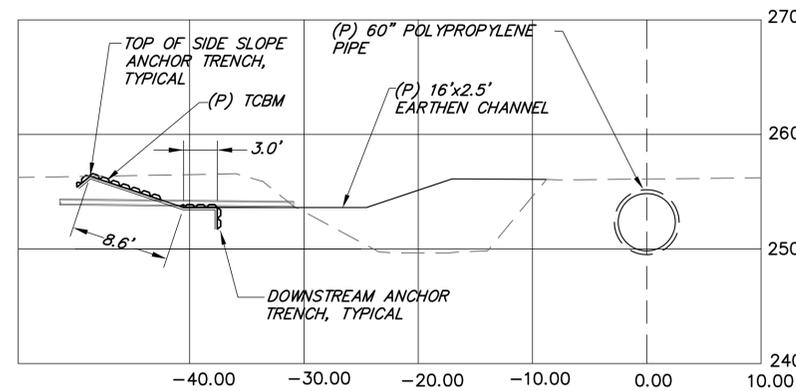
**DROP INLET DETAIL**  
NTS



**(E) 8"Ø STORM DRAIN PIPE**  
DITCH STA 71+16.16  
NTS



**(E) 8"Ø STORM DRAIN PIPE**  
DITCH STA 57+07.98  
NTS



**(E) 4"Ø STORM DRAIN PIPE**  
DITCH STA 52+26.74  
NTS

- Notes:**
- Construct Tied Concrete Block Mat (TCBM) per details on sheet 18 and the manufacturers recommendations.
  - For upstream and downstream trench for pipes shown on this sheet, contractor may utilize 18" L anchors instead of cross plate percussion anchors.
  - Extend existing pipes to outlet at proposed channel with new pipe of same diameter and material. Construct minor concrete collar connection per SPPWC STD 380-4.
  - Trim exposed pipe flush with TCBM. Outlet Anchor trench detail does not apply.
  - TCBM width = 3.0', min.

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REVISIONS			
NO.	DESCRIPTION	DATE	APR



**KMSullivan**  
FLOOD CONTROL DESIGN ENGINEER  
05-05-2017  
DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

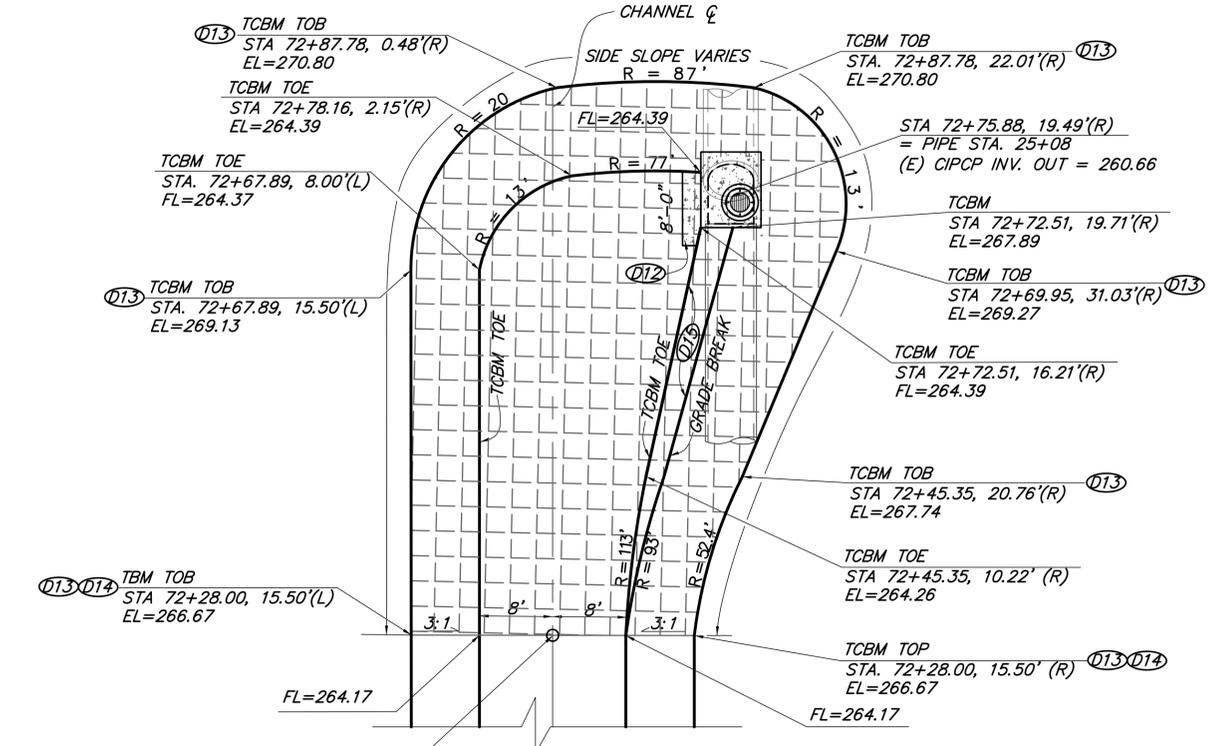


SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

**DETAILS**

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF

**O-1133**  
SHEET 15 OF 22  
Filename: AIRPORT\_DITCH\_master design.DWG

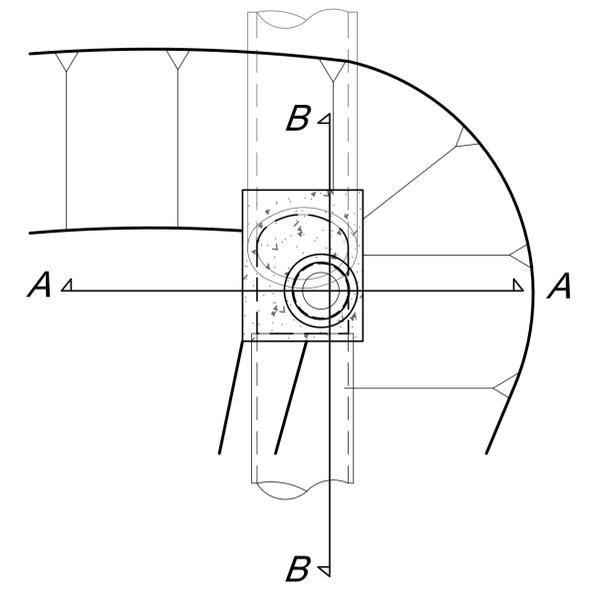


**PLAN**  
Scale: 1"=10'

013 014 BEGIN TIED CONCRETE BLOCK MAT  
STA. 72+28.00  
FL=264.17

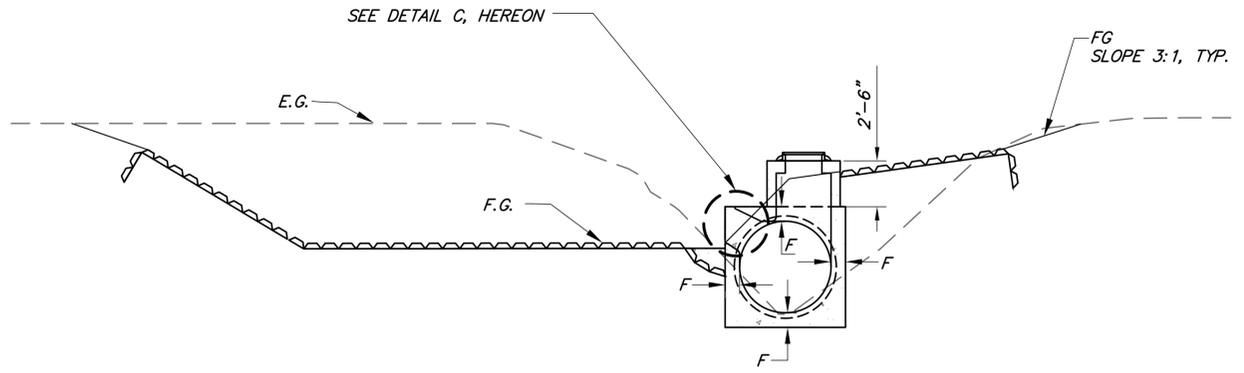
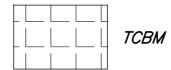
**Construction Notes:**

- 011 Construct Tied Concrete Block Mat (TCBM) invert and slopes per details on sheet 18 and the manufacturers recommendations.
- 012 Construct TCBM anchor trench - outlet per Detail on sheet 18.
- 013 Construct TCBM anchor trench - top of side slope per Detail on sheet 18.
- 014 Construct TCBM anchor trench - upstream, downstream and at concrete structure, per detail on sheet 18.
- 015 Wrap TCBM to be 6" clear, min of 60" polypropylene pipe.

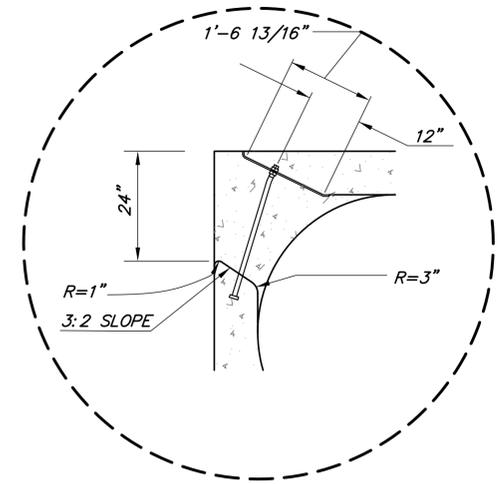


**TRANSITION STRUCTURE**  
**PLAN VIEW**  
Scale: 1"=5'

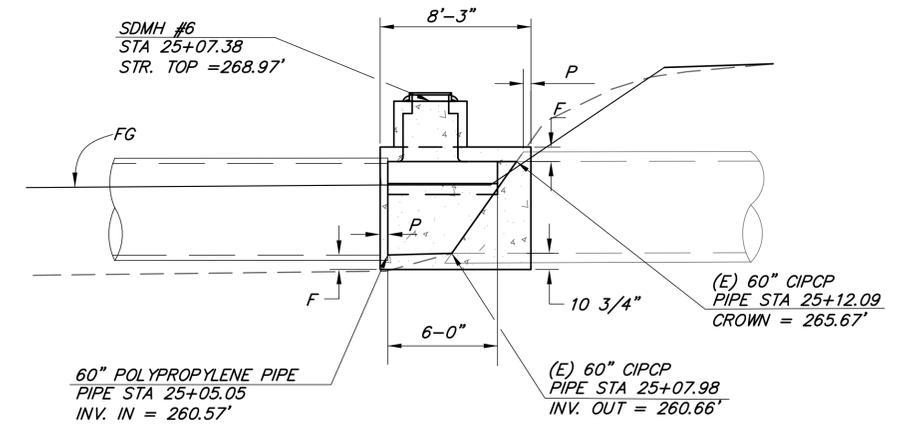
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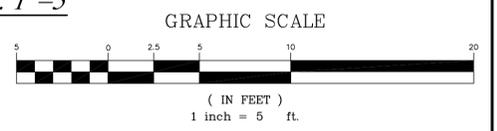
**SECTION A-A**  
**PIPE STA 25+07.38=**  
**DITCH STA 72+75.26**  
Scale: 1"=5'



**DETAIL C**  
**NTS**



**SECTION B-B**  
Scale: 1"=5'



**Notes:**

1. Manhole pipe-to-pipe per SPPWC 322-2. F = 9 1/2"; P = 5 1/2", Min.
2. Face Plate Assembly and Protection Bar per SPPWC 310-3, as modified per the dimensions as shown in Detail C.
3. Ductile iron bolted manhole with locking grate, with grate slots located parallel to channel.
4. Install Tied Concrete Block Mat (TCBM) per the Details on sheet 18.

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REVISIONS				DESIGNED BY: KS	DRAWN BY: OR	CHECKED BY: JF	SHEET 16 OF 22
NO.	DESCRIPTION	DATE	APR				

**Km Sullivan**  
FLOOD CONTROL DESIGN ENGINEER  
05-05-2017

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

**UPSTREAM DITCH  
TRANSITION**

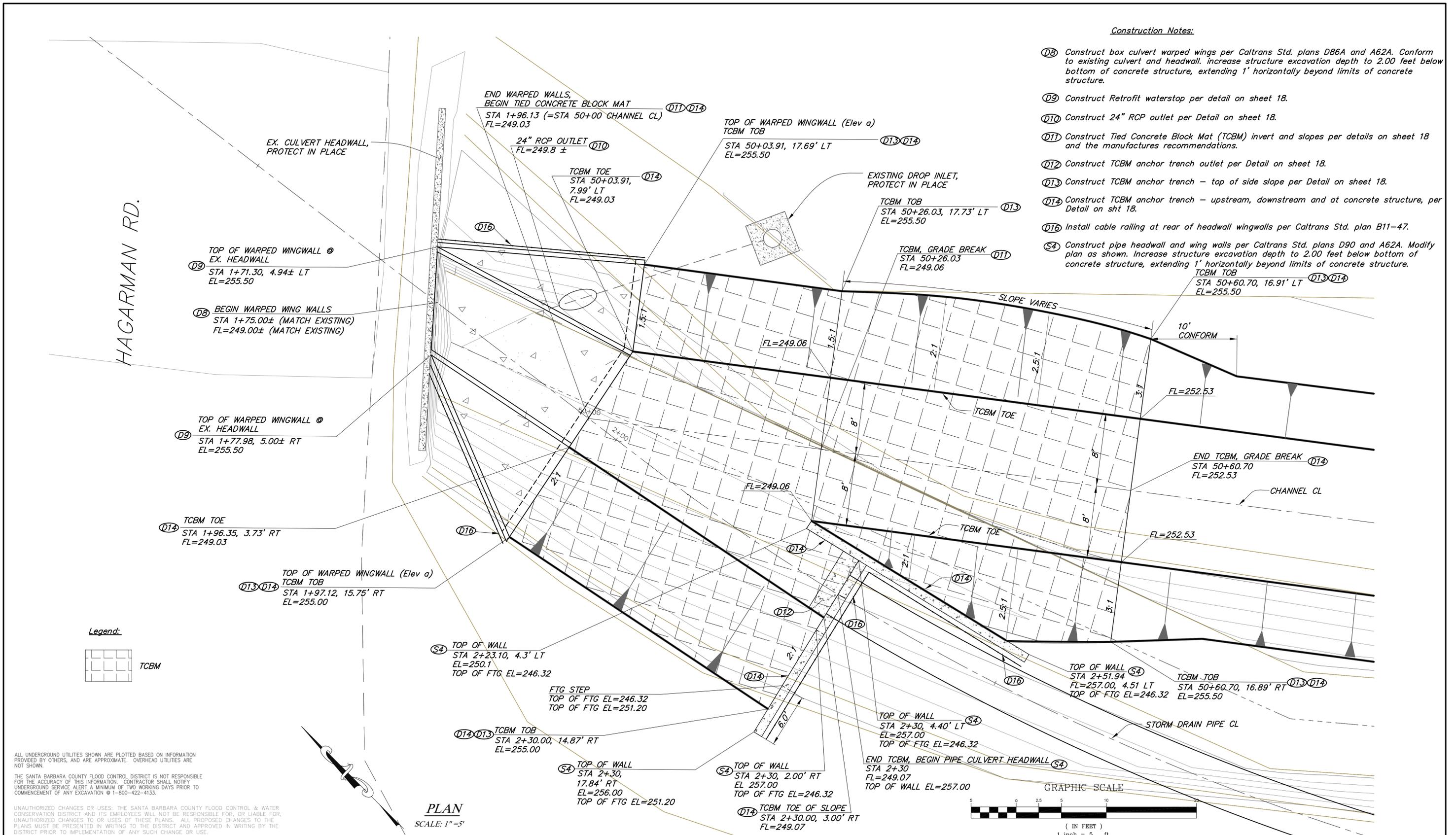
**O-1133**

SHEET 16 OF 22

Filename: AIRPORT\_DITCH\_master design.DWG

**Construction Notes:**

- (D8) Construct box culvert warped wings per Caltrans Std. plans D86A and A62A. Conform to existing culvert and headwall. Increase structure excavation depth to 2.00 feet below bottom of concrete structure, extending 1' horizontally beyond limits of concrete structure.
- (D9) Construct Retrofit waterstop per detail on sheet 18.
- (D10) Construct 24" RCP outlet per Detail on sheet 18.
- (D11) Construct Tied Concrete Block Mat (TCBM) invert and slopes per details on sheet 18 and the manufactures recommendations.
- (D12) Construct TCMB anchor trench outlet per Detail on sheet 18.
- (D13) Construct TCMB anchor trench - top of side slope per Detail on sheet 18.
- (D14) Construct TCMB anchor trench - upstream, downstream and at concrete structure, per Detail on sht 18.
- (D16) Install cable railing at rear of headwall wingwalls per Caltrans Std. plan B11-47.
- (S4) Construct pipe headwall and wing walls per Caltrans Std. plans D90 and A62A. Modify plan as shown. Increase structure excavation depth to 2.00 feet below bottom of concrete structure, extending 1' horizontally beyond limits of concrete structure.



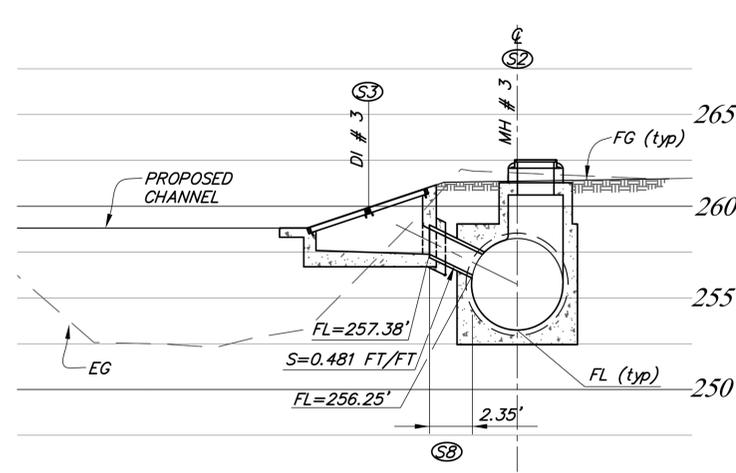
**PLAN**  
SCALE: 1"=5'

**Legend:**  
TCBM

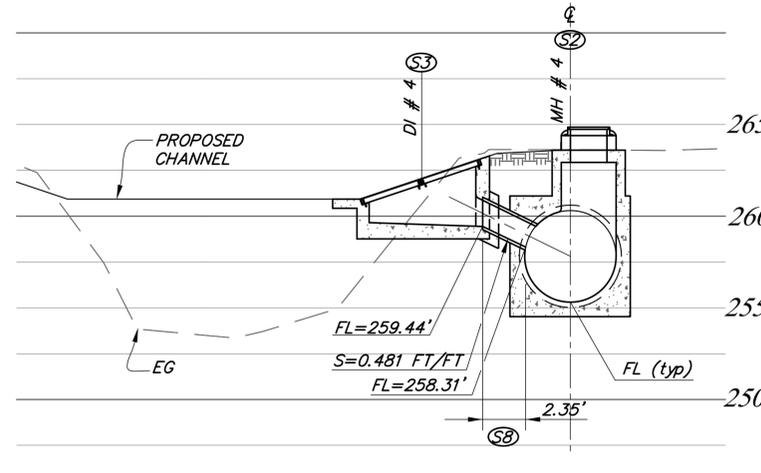
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<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APR</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				NO.	DESCRIPTION	DATE	APR													DESIGNED BY: <b>K.M. Sullivan</b> FLOOD CONTROL DESIGN ENGINEER 05-05-2017 DATE	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440		SANTA MARIA AIRPORT DITCH IMPROVEMENTS PROJECT AREA OF SANTA MARIA SANTA BARBARA COUNTY, CALIFORNIA	DESIGNED BY: KS/MG DRAWN BY: OR CHECKED BY: JF	<b>O-1133</b> SHEET 17 OF 22 Filename: AIRPORT_DITCH-master_design.DWG
REVISIONS																													
NO.	DESCRIPTION	DATE	APR																										

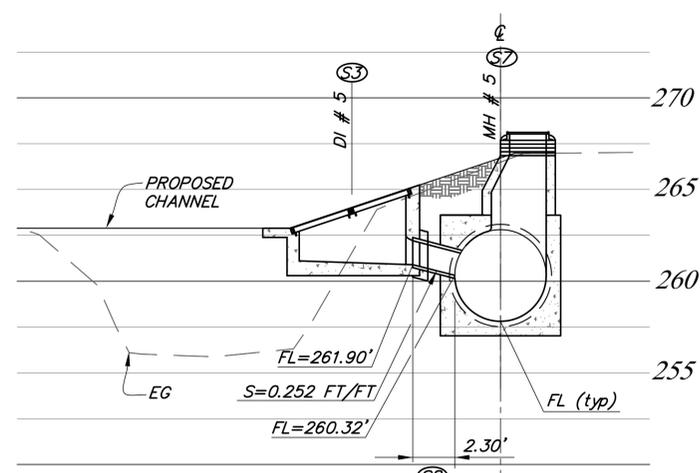




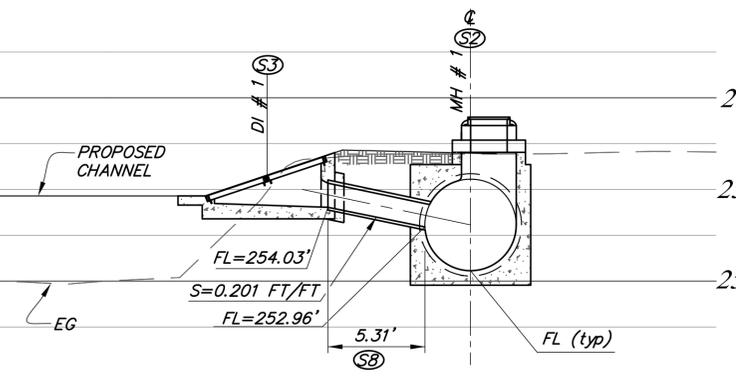
**STORM DRAIN MANHOLE #3  
AND DROP INLET #3,  
STA 14+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



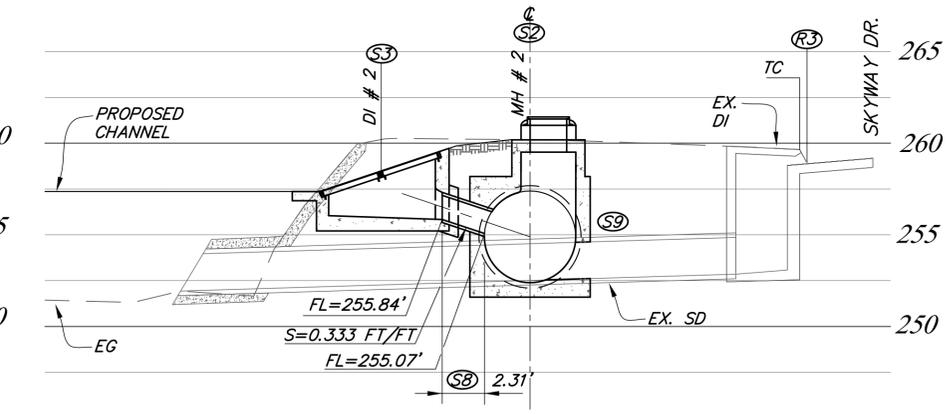
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AND DROP INLET #4,  
STA 18+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



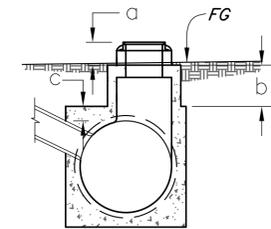
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AND DROP INLET #5,  
STA 22+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



**STORM DRAIN MANHOLE #1  
AND DROP INLET #1,  
STA 6+00**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



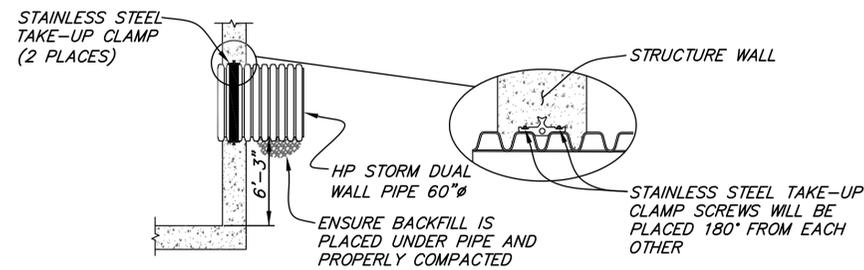
**STORM DRAIN MANHOLE #2  
AND DROP INLET #2,  
STA 10+65.59**  
SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL



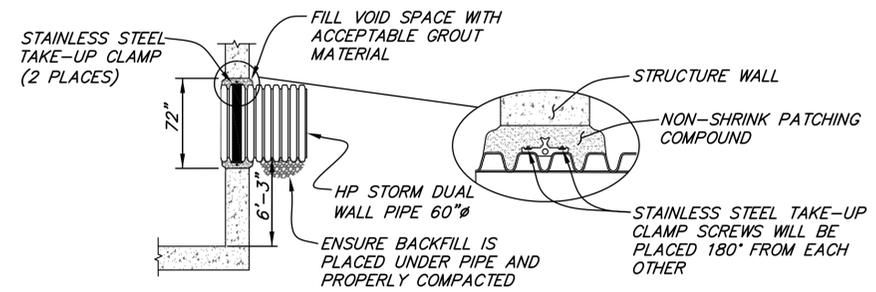
MANHOLE COMPONENT DIMENSIONS

Manhole I.D.	STA	a	b	c
MH # 1	6+00	15"	16"	9½"
MH # 2	10+65.59	15"	2'-0"	9½"
MH # 3	14+00	15"	2'-3"	9½"
MH # 4	18+00	15"	2'-6"	9½"
MH # 5	22+00	15½"	3'-3"	9½"

MANHOLE COMPONENT  
DETAIL  
NTS



**60" POLYPROPYLENE (HP) WATERSTOP  
CAST-IN-PLACE MANHOLE CONNECTION**  
NTS



**60" POLYPROPYLENE (HP) WATERSTOP  
PRE-CAST GROUTED MANHOLE CONNECTION**  
NTS

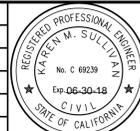
- CONSTRUCTION NOTES:**
- Ⓢ2 Construct Monolithic Manhole Pipe to Pipe per SPPWC 320-2, and per the dimensions and the Detail on this sheet.
  - Ⓢ7 Construct Manhole Pipe to Pipe per SPPWC 320-2, with eccentric reducer per SPPWC 324-2, and per the dimensions and the Detail on this sheet.
  - Ⓢ3 Construct Drop Inlet with Caltrans frame and Grate Type 24-9 per Caltrans Standard Plan D77A and Details on this sheet.
  - Ⓢ8 Install 15" Dia. Polypropylene Pipe per Typical Trench Detail on this sheet.
  - Ⓢ9 Cut existing RCP, flush with opening and install watertight pipe-to-manhole connector conforming to ASTM C-923. Seal with non-shrink grout.
  - Ⓡ3 Protect in place.

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DESIGNED BY: *Karen M. Sullivan* 05-05-2017  
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

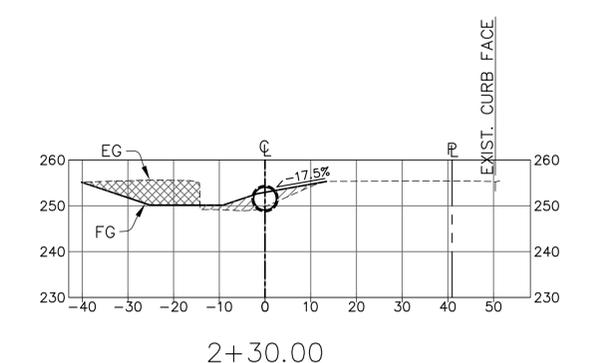
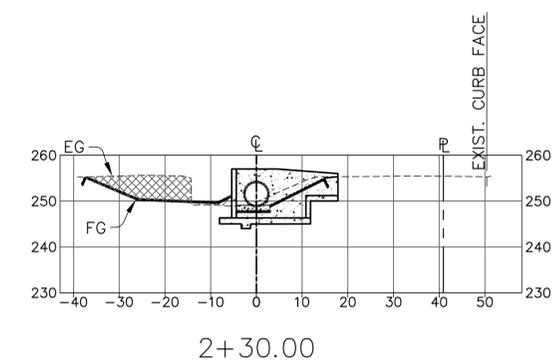
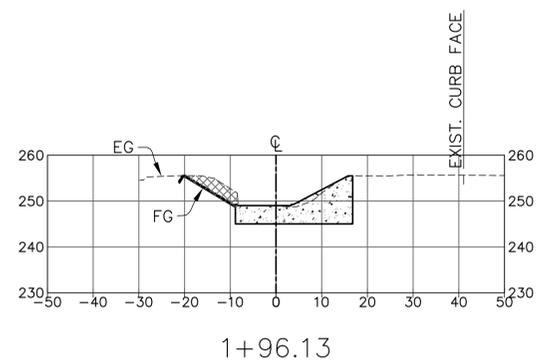
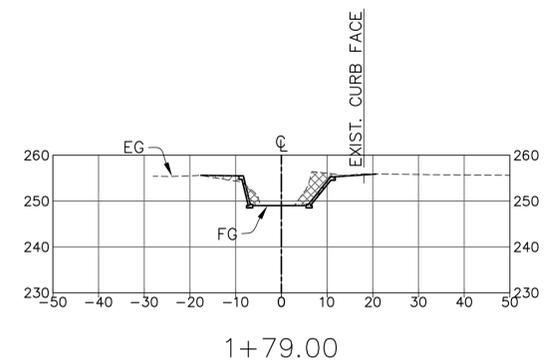
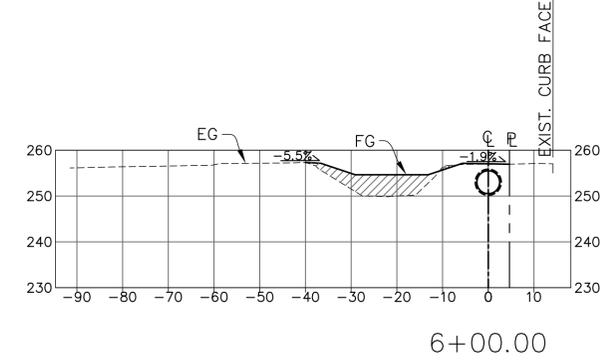
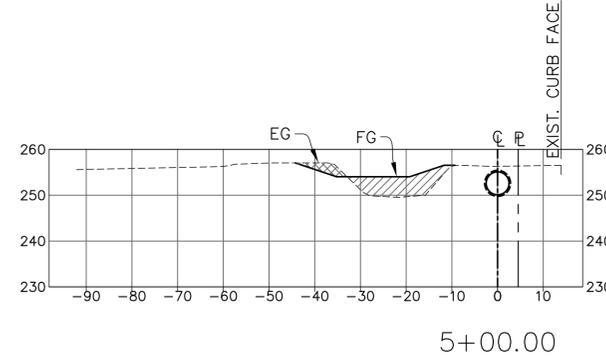
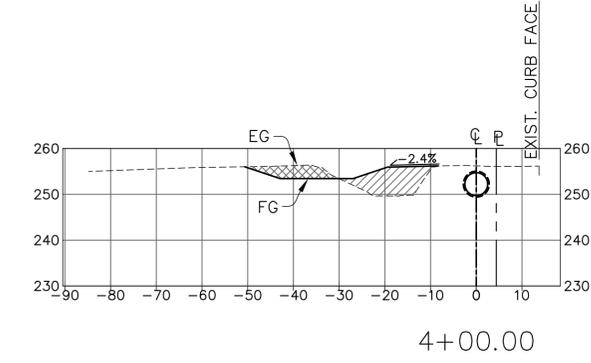
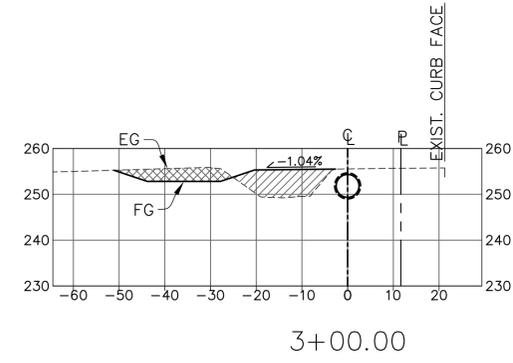
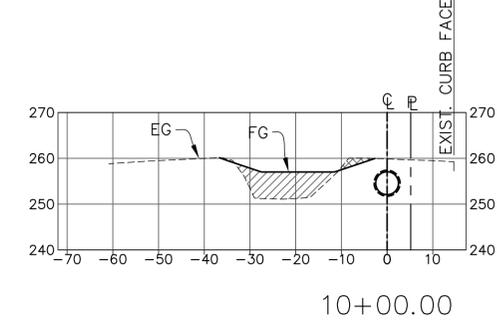
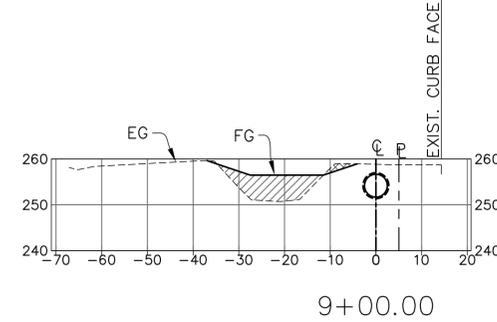
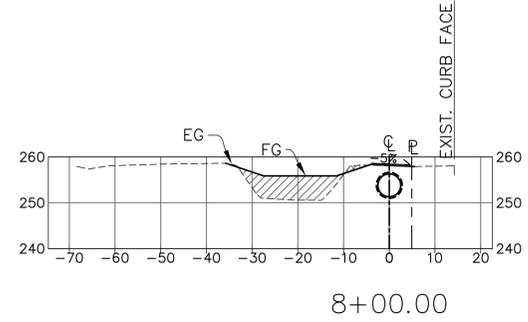
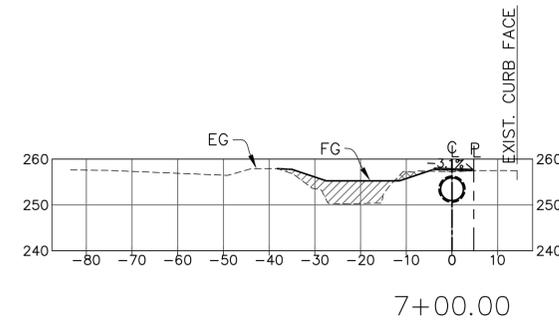
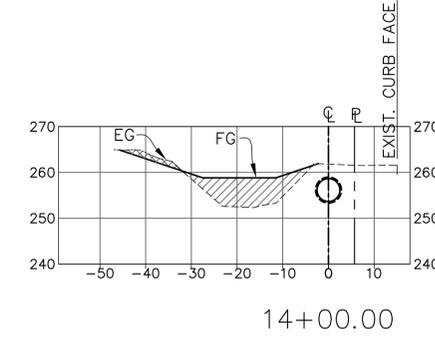
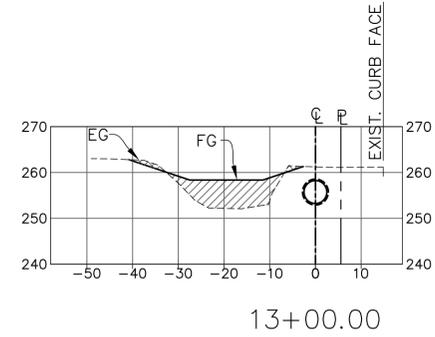
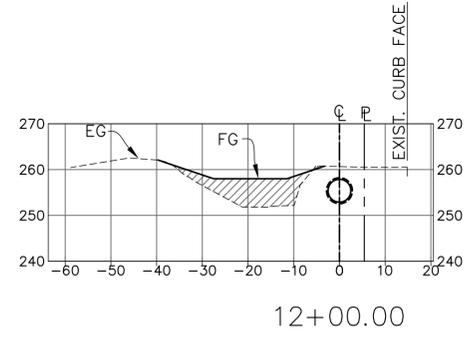
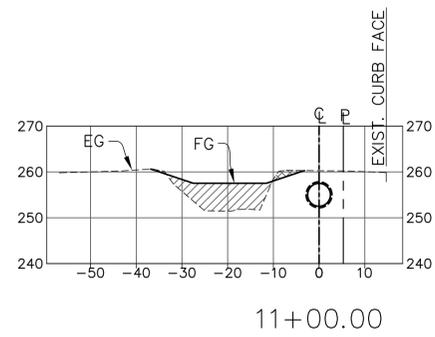


SANTA MARIA AIRPORT DITCH  
IMPROVEMENTS PROJECT  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

**MANHOLES AND  
DROP INLETS**

DESIGNED BY: KS  
DRAWN BY: KS/OR  
CHECKED BY: JF

**O-1133**  
SHEET 19 OF 22  
Filename: Manholes and Dropinlets.dwg



**SECTIONS**  
 USING PIPE ALIGNMENT STATIONING  
 SCALE: 1" = 20' HORIZONTAL  
 1" = 20' VERTICAL

EXCAVATION  
 COMPACTED DITCH FILL



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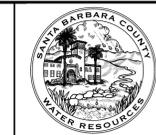
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**KM Sullivan**  
 FLOOD CONTROL DESIGN ENGINEER  
 05-05-2017  
 DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440

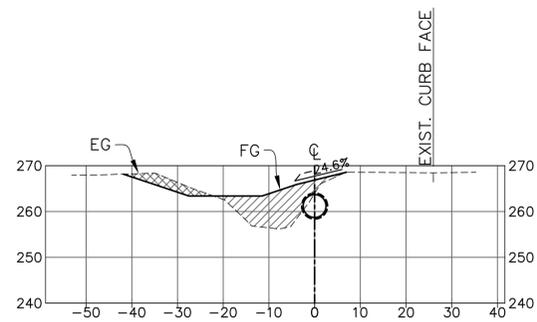


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 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

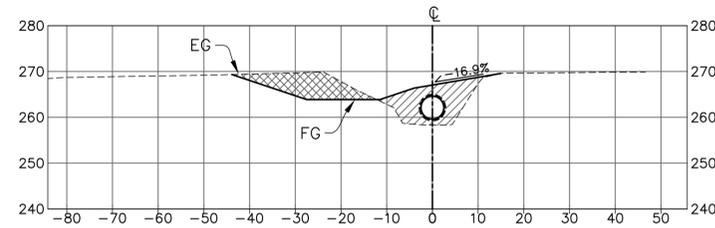
**CROSS SECTIONS**

DESIGNED BY:  
 KS  
 DRAWN BY:  
 OR/JM  
 CHECKED BY:  
 JF

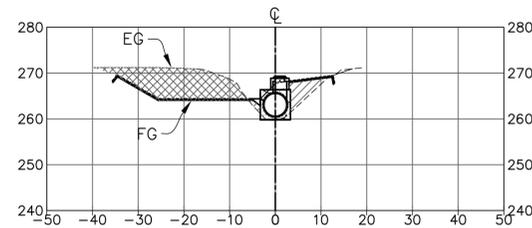
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 SHEET 20 OF 22  
 Filename: Airport Ditch Sections.DWG



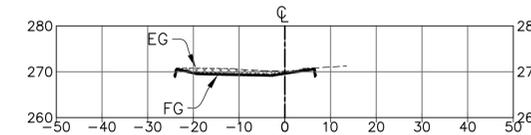
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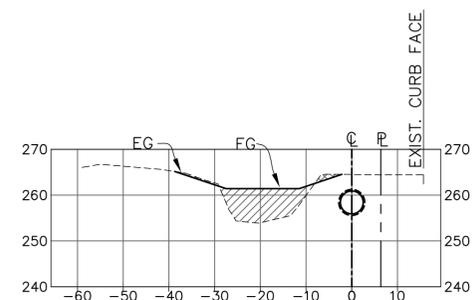
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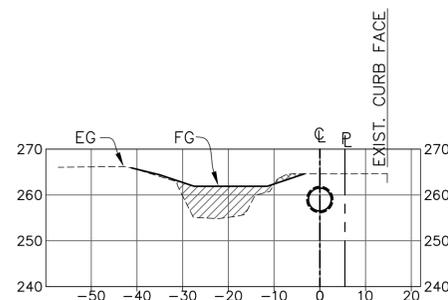
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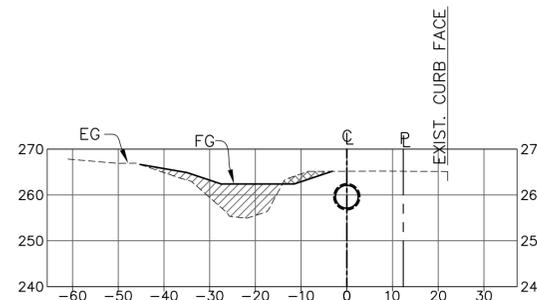
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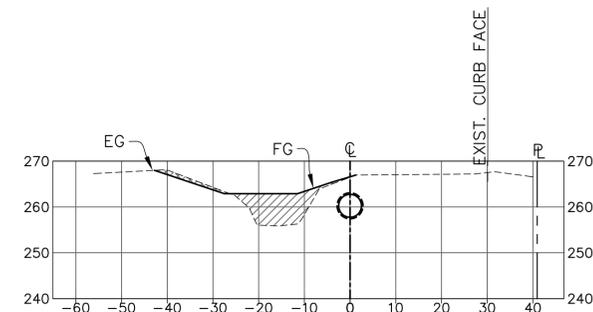
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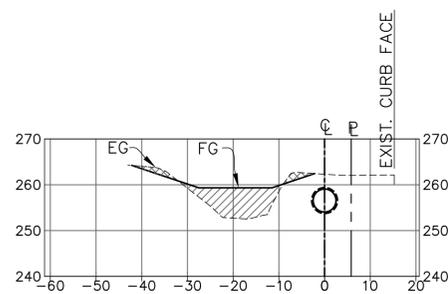
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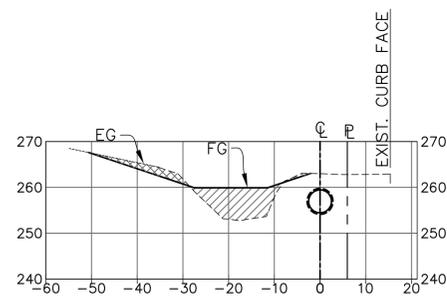
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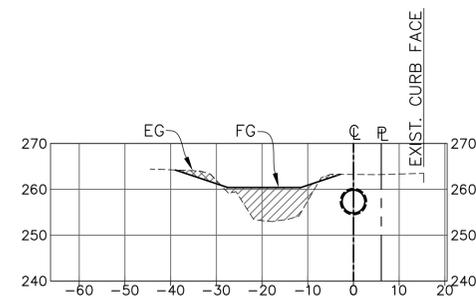
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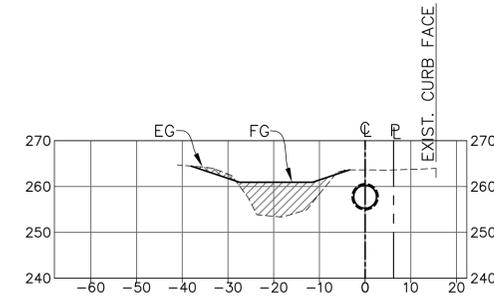
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16+00.00



17+00.00



18+00.00

**SECTIONS**  
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EXCAVATION  
 COMPACTED DITCH FILL



REVISIONS			
NO.	DESCRIPTION	DATE	APR



**KMSullivan**  
 FLOOD CONTROL DESIGN ENGINEER  
 05-05-2017 DATE

SANTA BARBARA COUNTY  
 FLOOD CONTROL AND  
 WATER CONSERVATION DISTRICT  
 130 E. VICTORIA STREET  
 SANTA BARBARA, CA 93101  
 (805) 568-3440



SANTA MARIA AIRPORT DITCH  
 IMPROVEMENTS PROJECT  
 AREA OF SANTA MARIA  
 SANTA BARBARA COUNTY, CALIFORNIA

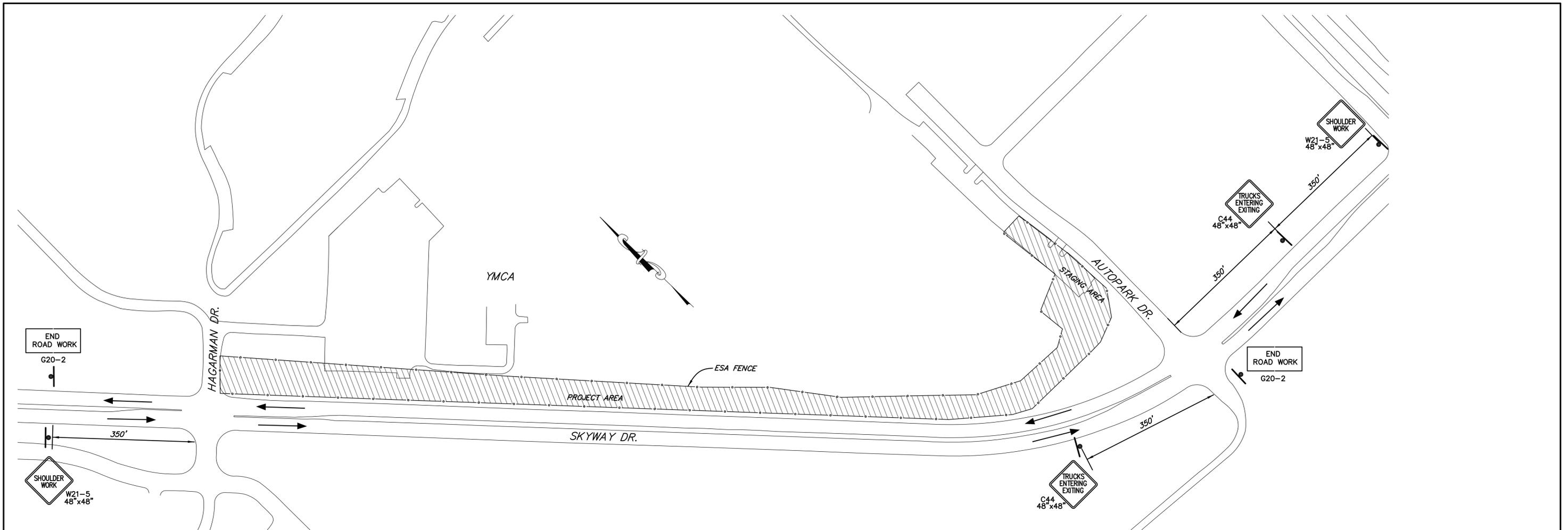
**CROSS SECTIONS**

DESIGNED BY:  
 KS  
 DRAWN BY:  
 OR/JM  
 CHECKED BY:  
 JF

**O-1133**

SHEET 21 OF 22

Filename: Airport Ditch Sections.DWG



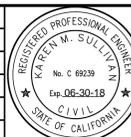
**SITE MAP**  
N.T.S.

**NOTES:**

1. Traffic Control shall conform to the latest revision to the California MUTCD Edition
2. Sign locations shown are approximate. Exact location shall be determined in the field in conformance with the MUTCD and as approved by Engineer.
3. Construction area signs not applicable to the current stage of work shall be removed or covered.
4. All missing, broken & bent signs must be replaced.
5. Directional arrows illustrate direction of traffic.
6. Place temporary fencing, type ESA (Environmentally Sensitive Area).

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SANTA BARBARA, CA 93101  
(805) 568-3440



ORCUTT AIRPORT DITCH  
AREA OF SANTA MARIA  
SANTA BARBARA COUNTY, CALIFORNIA

CONSTRUCTION AREA SIGNS  
AND ESA FENCING

DESIGNED BY: KS  
DRAWN BY: OR  
CHECKED BY: JF

**O-1133**

SHEET 22 OF 22

Filename: ORCUTT\_AIRPORT\_DITCH\_area\_traffic\_control.DWG