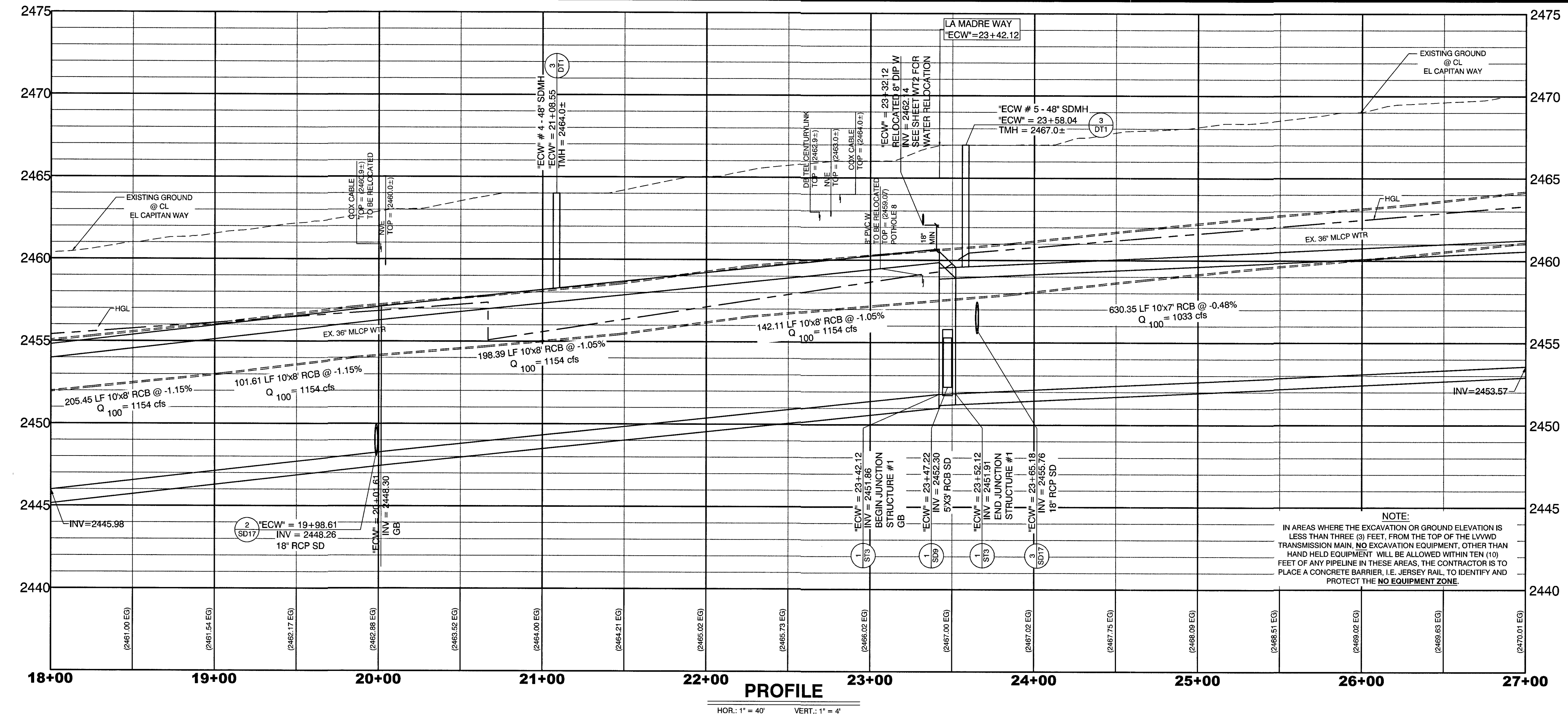
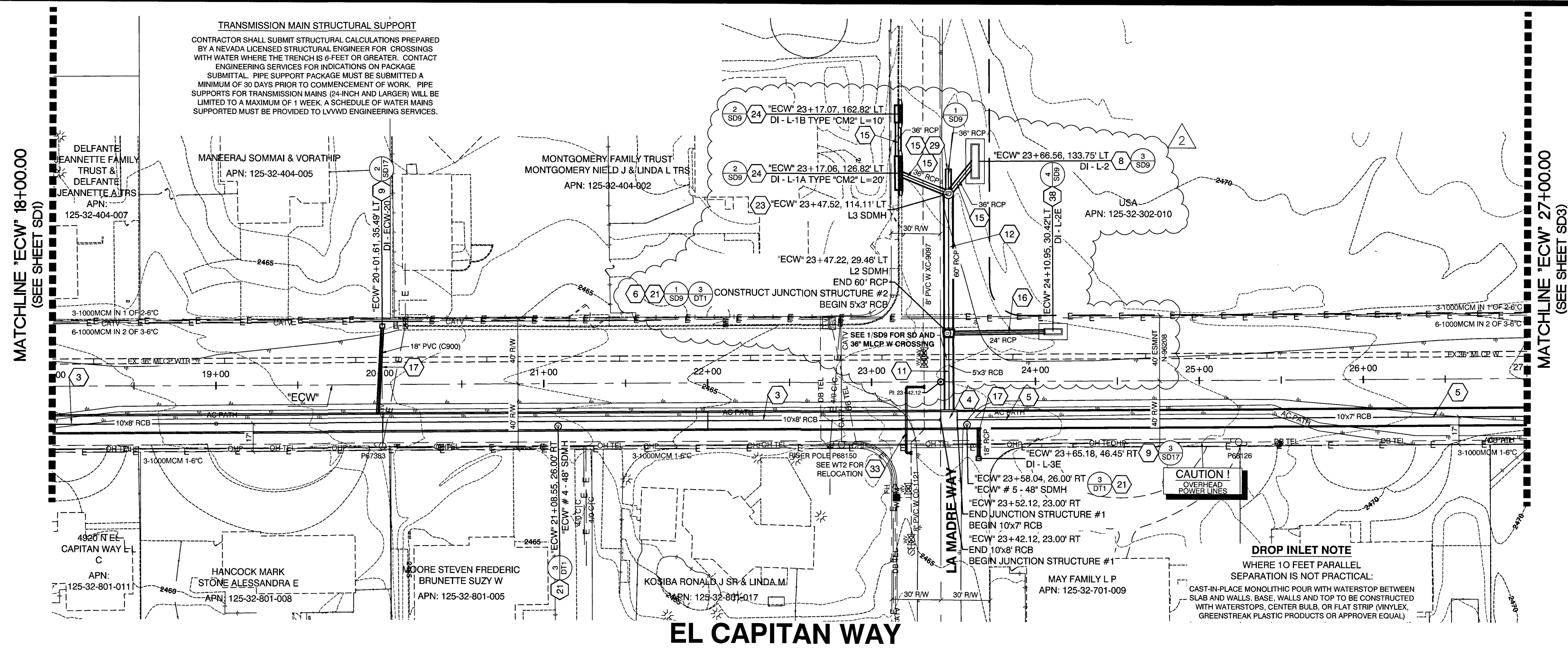




GRAPHIC SCALE
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

- CONSTRUCTION KEY NOTES**
- REMOVE END CAP AND CONNECT TO EXISTING 12"x5" RCB PER DETAIL 1, SHT. ST2
 - CONSTRUCT TRANSITION STRUCTURE #1 PER DETAIL 1, SHT. ST2
 - CONSTRUCT 10"x8" RCB PER DETAIL 1, SHT. DT1
 - CONSTRUCT JUNCTION STRUCTURE #1 PER DETAIL 1, SHT. ST3
 - CONSTRUCT 10"x7" RCB PER DETAIL 1, SHT. DT1
 - CONSTRUCT JUNCTION STRUCTURE #2 PER DETAIL 1, SHT. ST4
 - CONSTRUCT 10"x4" SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
 - CONSTRUCT 20"x4" SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
 - CONSTRUCT 10"x7" DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
 - CONSTRUCT JUNCTION STRUCTURE #3 PER DETAIL 1, SHT. ST5
 - CONSTRUCT 5"x3" RCB PER DETAIL 1, SHT. DT1
 - CONSTRUCT 60" RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 54" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 48" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 36" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 24" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 18" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
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 - CONSTRUCT 48" ACCESS MANHOLE PER DETAIL 3, SHT. DT1 WITH 30" FRAME AND COVER PER USD #408
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 - NOT USED
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 - INSTALL 36" RCP PLUG, PER DETAIL 2, SHT. ST4
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 - CONSTRUCT 12" DIP WATER LINE PER UDACS PLATES 17 AND 18
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 - INSTALL 42" RCP PLUG PER DETAIL 2, SHT. ST4
 - INSTALL JUNCTION STRUCTURE #4, PER DETAIL 2, SHT. ST5
 - INSTALL JUNCTION STRUCTURE #5, PER DETAIL 3, SHT. ST5
 - INSTALL CONCRETE COLLAR PER DETAIL 8, SHT. DT1
 - CONSTRUCT 42" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - INSTALL 24" RCP PLUG, PER DETAIL 2, SHT. ST4
 - NOT USED
 - CONSTRUCT 24"x38" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - CONSTRUCT 19"x30" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE

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KEY MAP

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2299
F: 702.804.2299
gcwengineering.com

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

REVISIONS

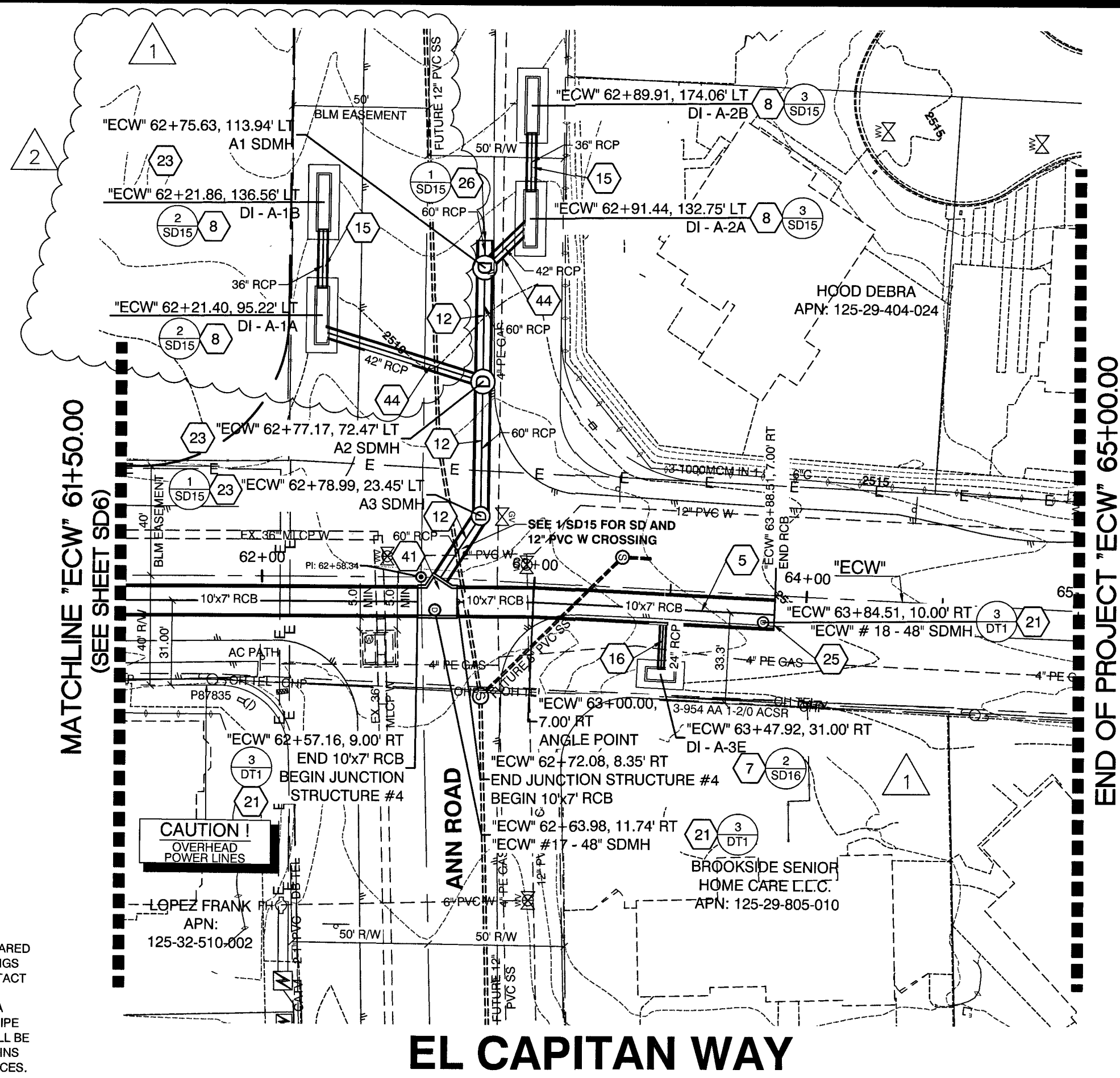
NO.	DATE	DESCRIPTION
1	8/21/18	OBTAINED BLM EASEMENT

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

PLAN AND PROFILE
"ECW" 18+00.00 TO "ECW" 27+00.00

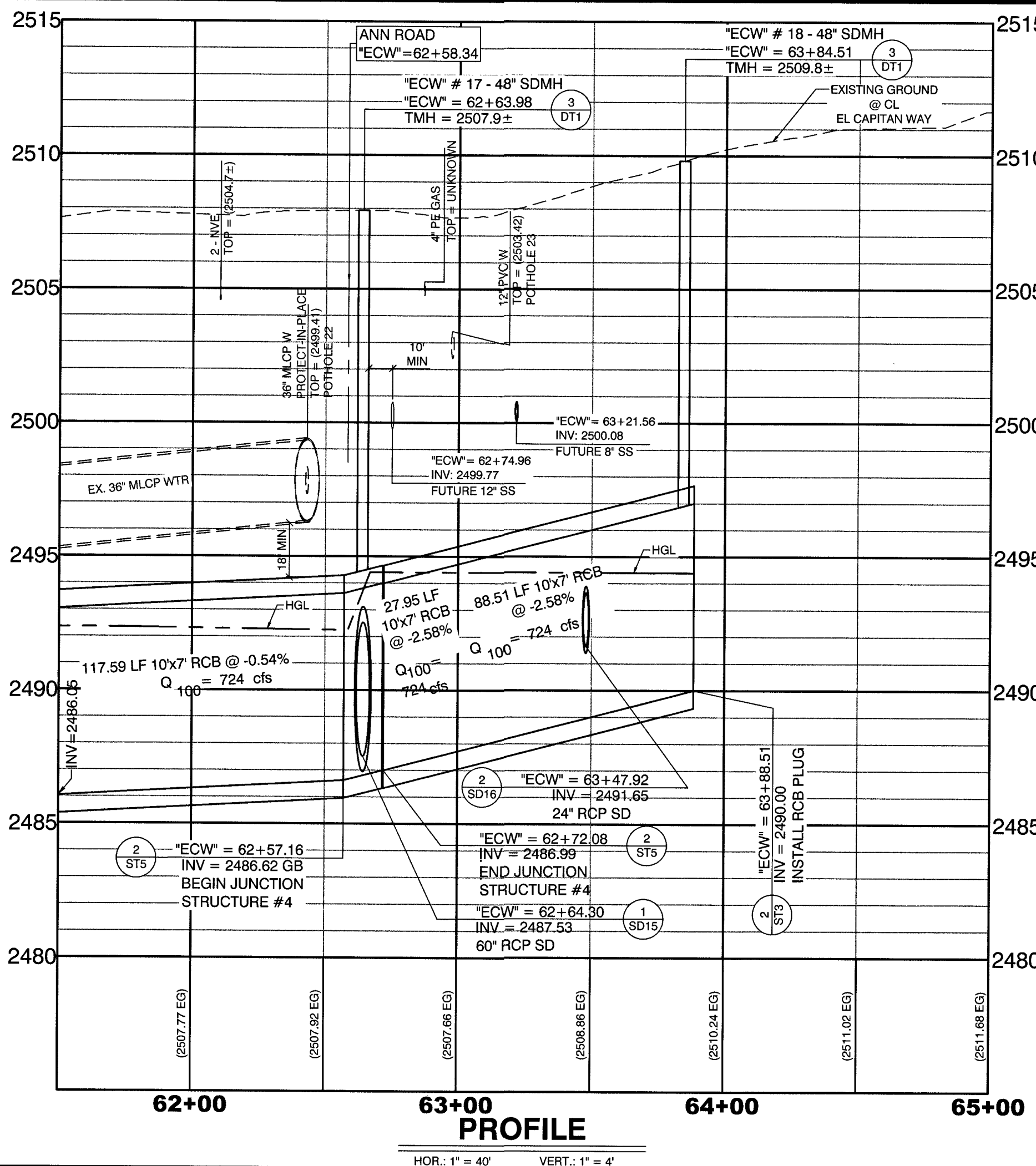
SD2
24 OF 52
DRAWING No. 327V294

PROJ#: 125005 AGREE#16136 QS:125-32-SE XC:11372



NOTE:
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BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
	NV ENERGY	702-227-2929

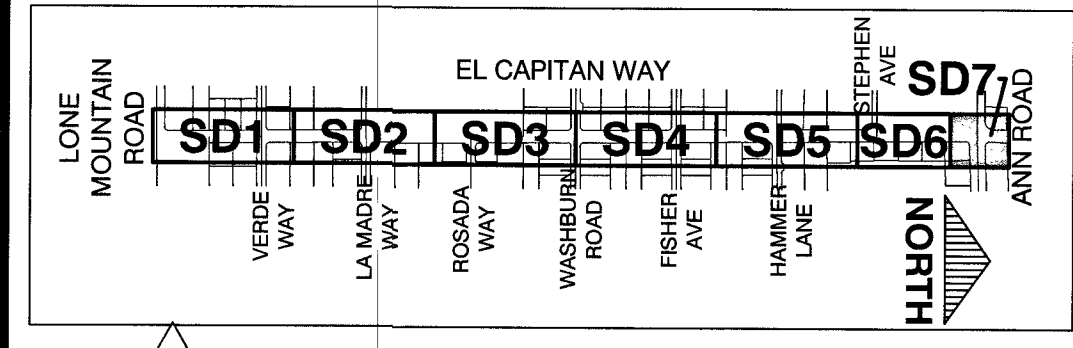
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- CONSTRUCT JUNCTION STRUCTURE #2 PER DETAIL 1, SHT. ST4
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- CONSTRUCT 24x14" SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
- CONSTRUCT 12x6" DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
- CONSTRUCT JUNCTION STRUCTURE #3 PER DETAIL 1, SHT. ST5
- CONSTRUCT 5x3" RCB PER DETAIL 1, SHT. DT1
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DISCLAIMER NOTE

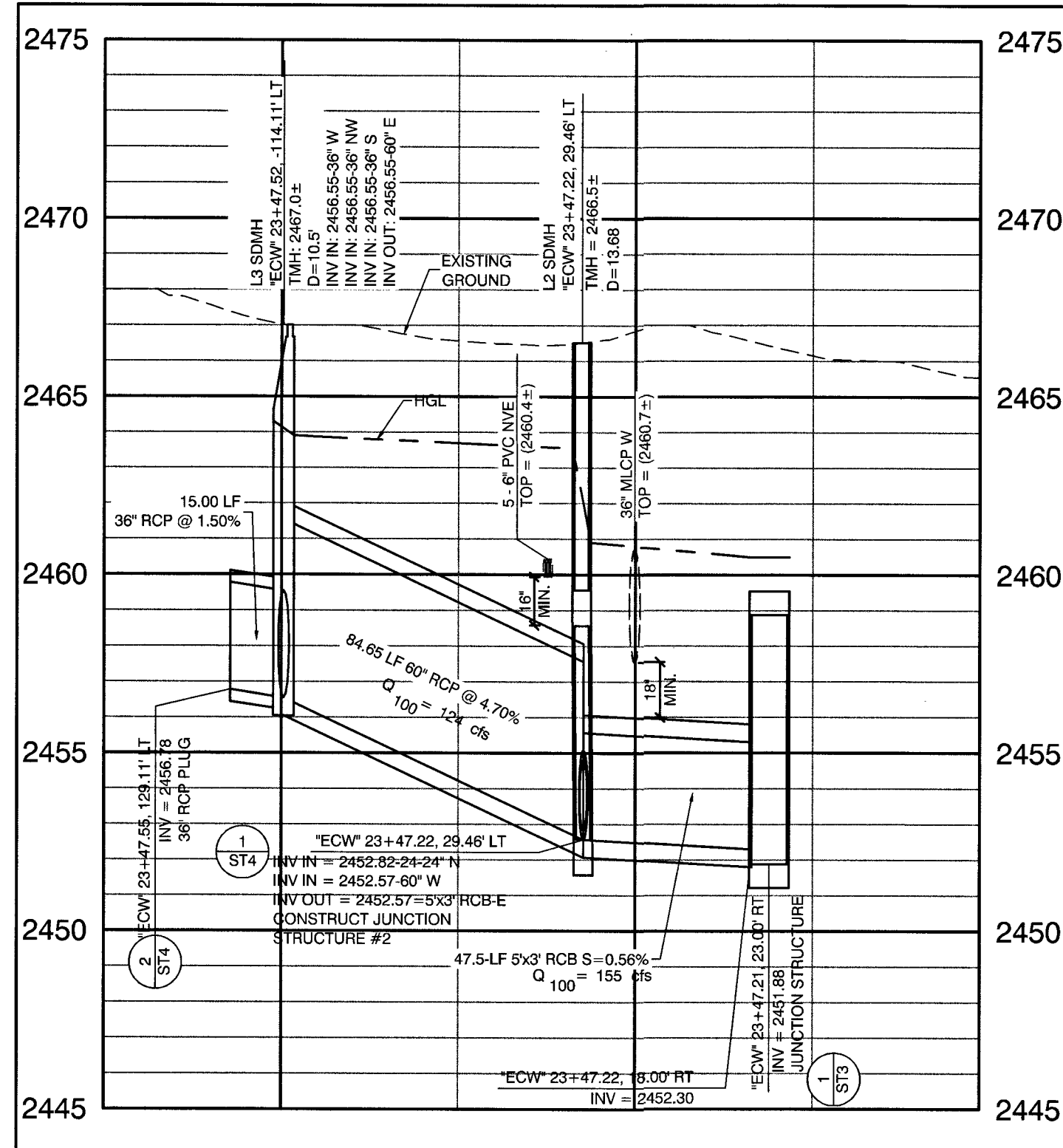
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KEY MAP



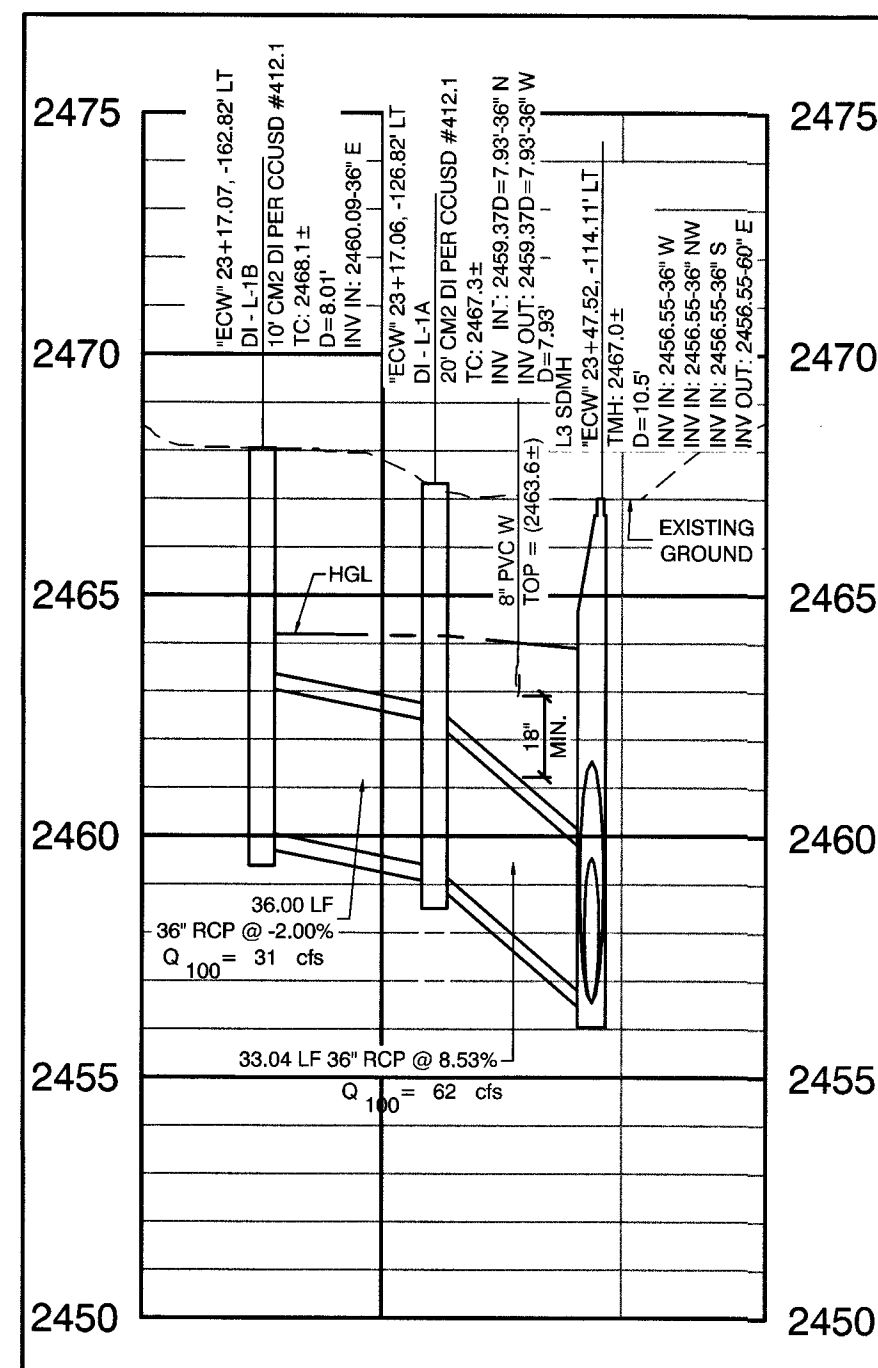
APPROVED FOR CONSTRUCTION
One Thade 9/24/18
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY GCW 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2200 F: 702.804.2299 gowandesign.com		ENGINEERS' SURVEYORS 9/21/18 9/21/18 NO. DATE REVISIONS
CITY OF LAS VEGAS BID# 17-63891 DESIGNED BY: RKB DRAWN BY: RKB CHECKED BY: SJ	DATE: 11/14/17 SUBMITTAL STAGE: 100% - FINAL	TITLE GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD PLAN AND PROFILE "ECW" 61+50.00 TO "ECW" 65+00.00 PROJECT NO. 125005 AGREEMENT #16136 QS-125-32-SE XC-11372
SHEET SD7 29 OF 52 DRAWING NO. 327V294		DATE: 9/19/2018 BY: STEPHEN M. JONES CIVIL No. 19658



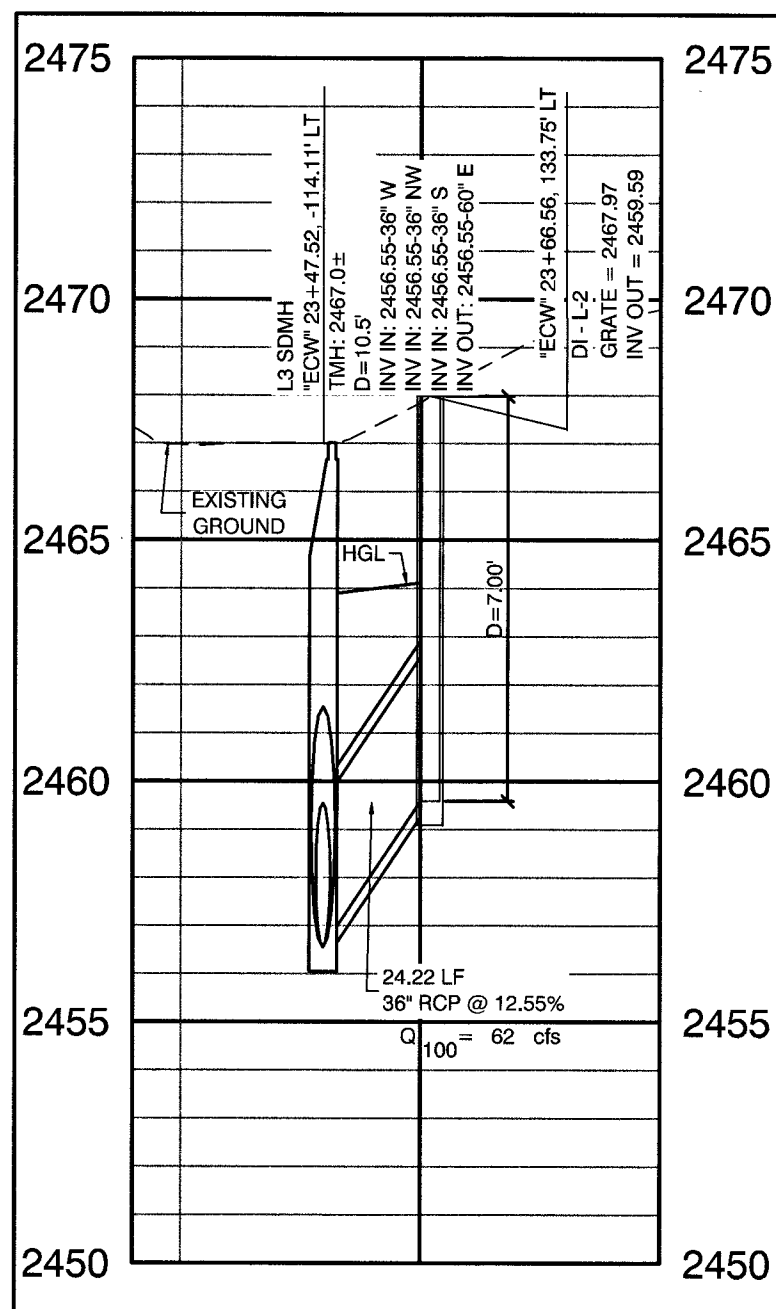
**STORM DRAIN LATERAL
LA MADRE WAY**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

1
SD9



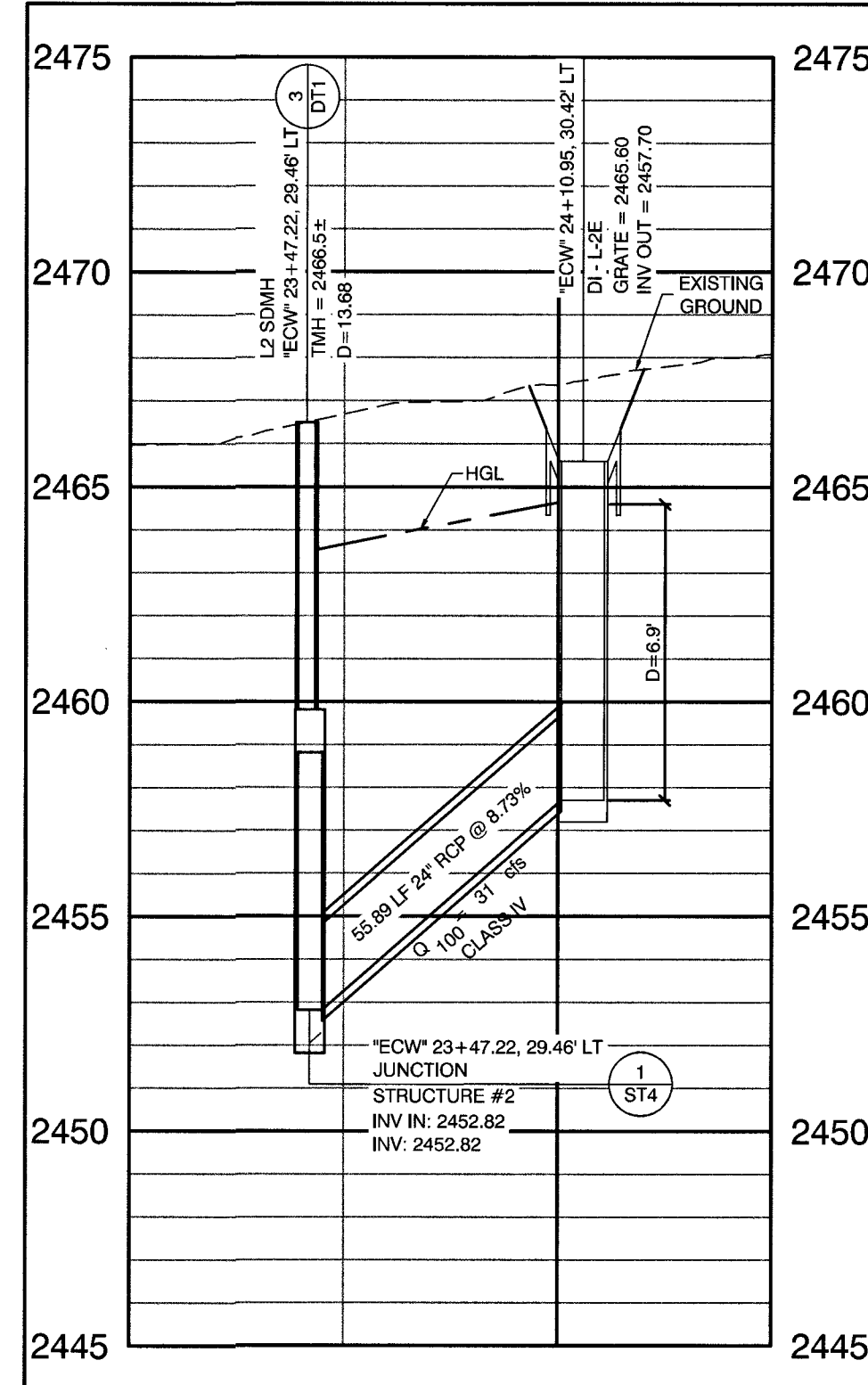
**STORM DRAIN LATERAL
LA MADRE WAY**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD9



**STORM DRAIN LATERAL
LA MADRE WAY**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD9



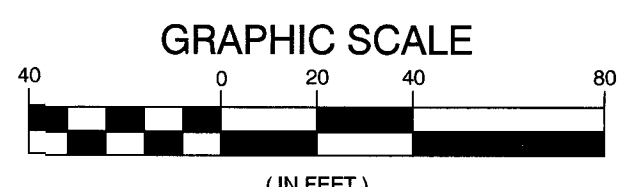
**STORM DRAIN LATERAL
EL CAPITAN WAY**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD9

CONTROLLED LOW STRENGTH:
PROTECT WATERLINES IN PLACE. WHENEVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS 1 CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

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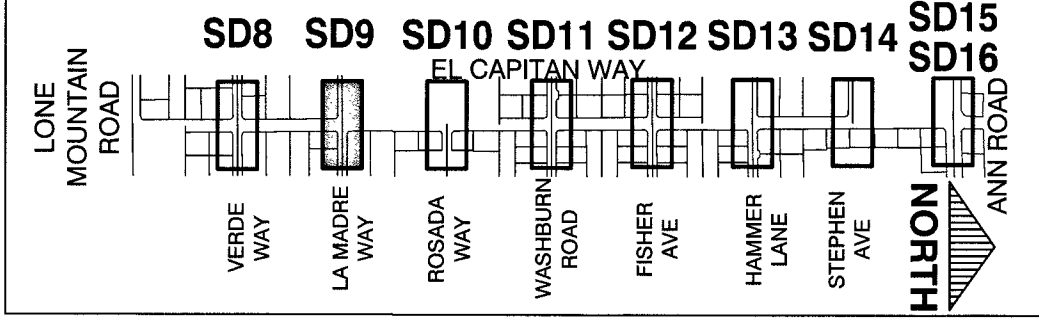
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CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 GR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6811
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KEY MAP



APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

NO.	DATE	REVISIONS
1	8/21/18	OBTAINED BLM EASEMENT

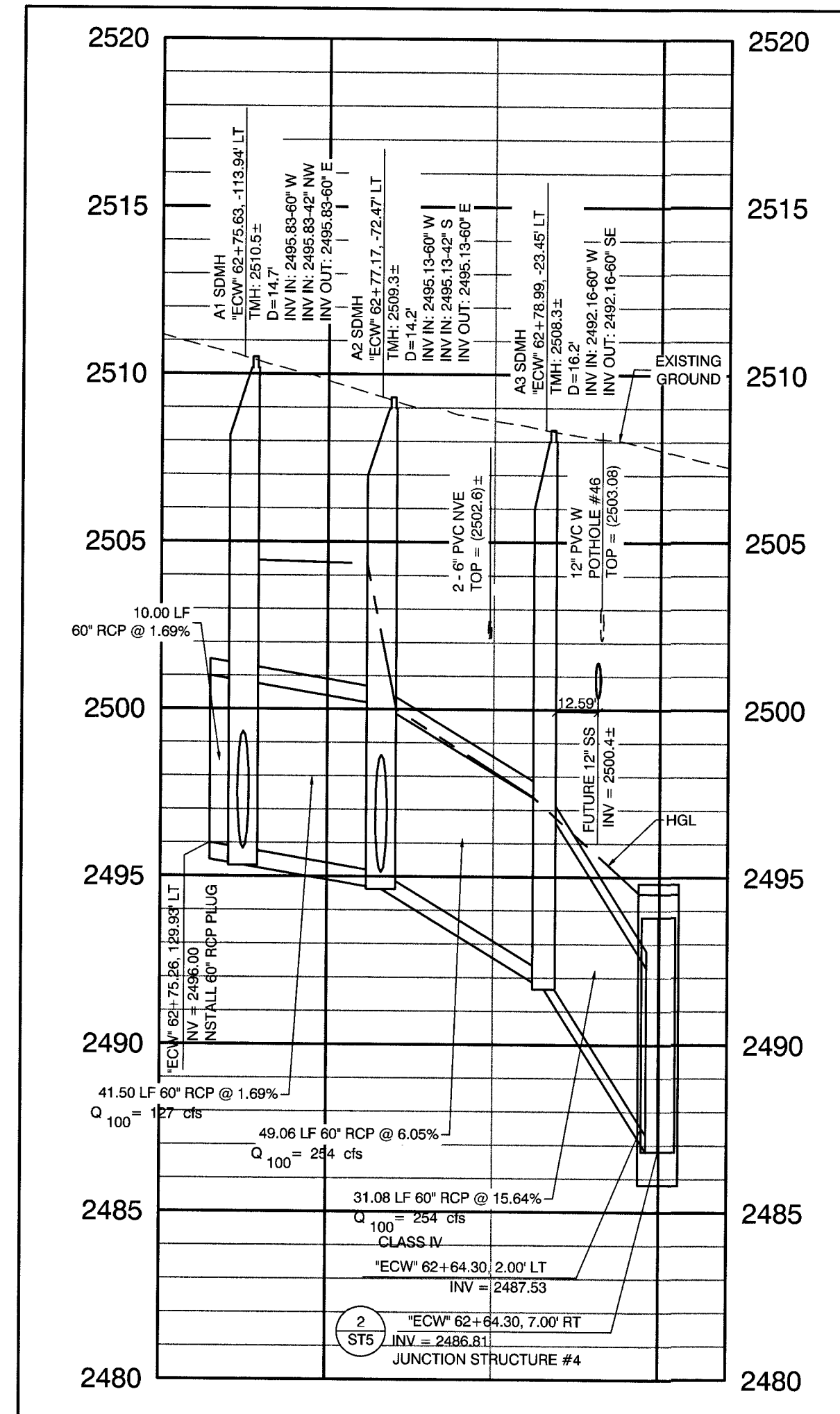
PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2259
gcwengineering.com

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**
**LATERAL PROFILES
LA MADRE WAY**

SHEET
SD9
31 OF 52
DRAWING NO.
327V294

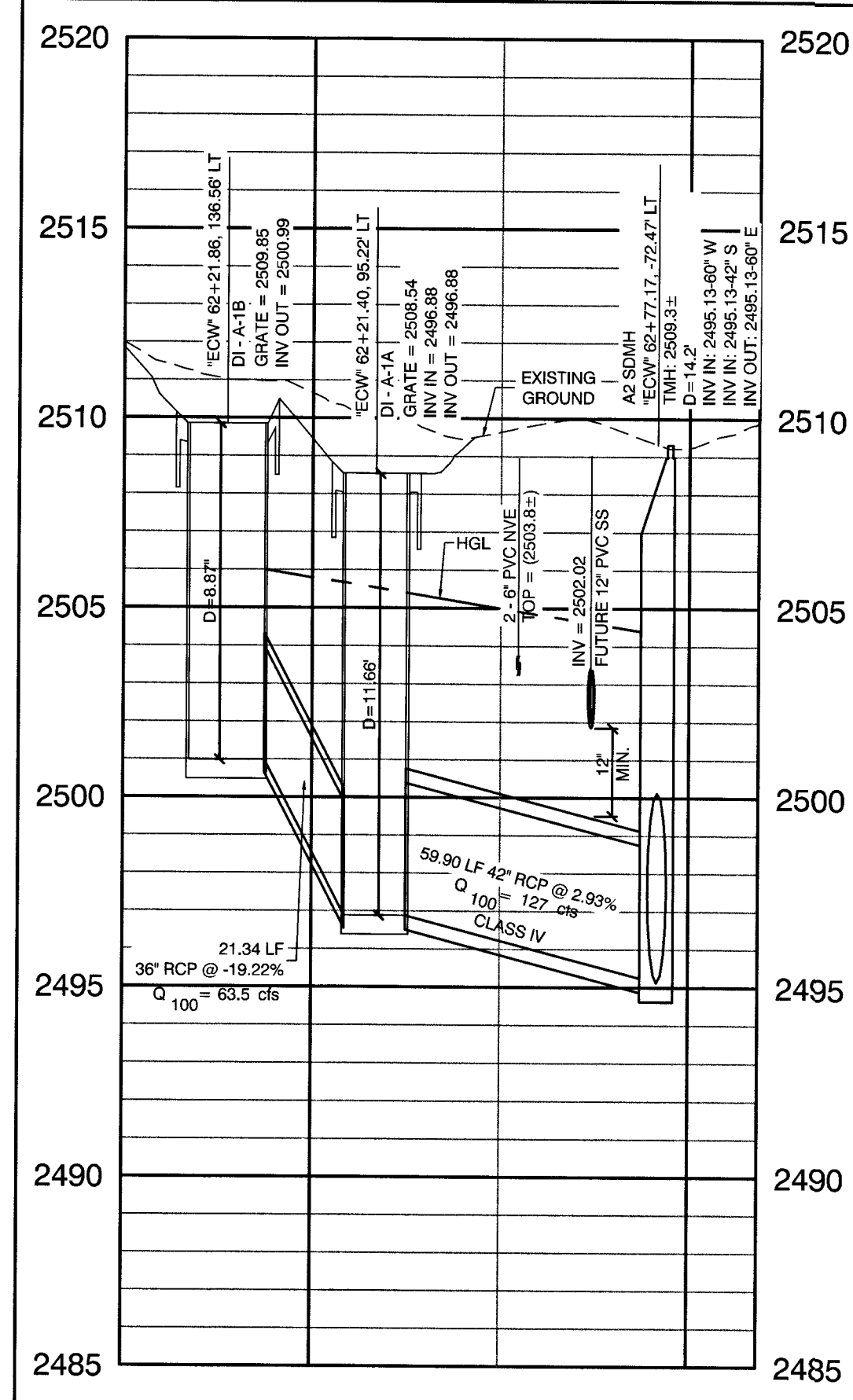
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17



STORM DRAIN LATERAL ANN ROAD

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

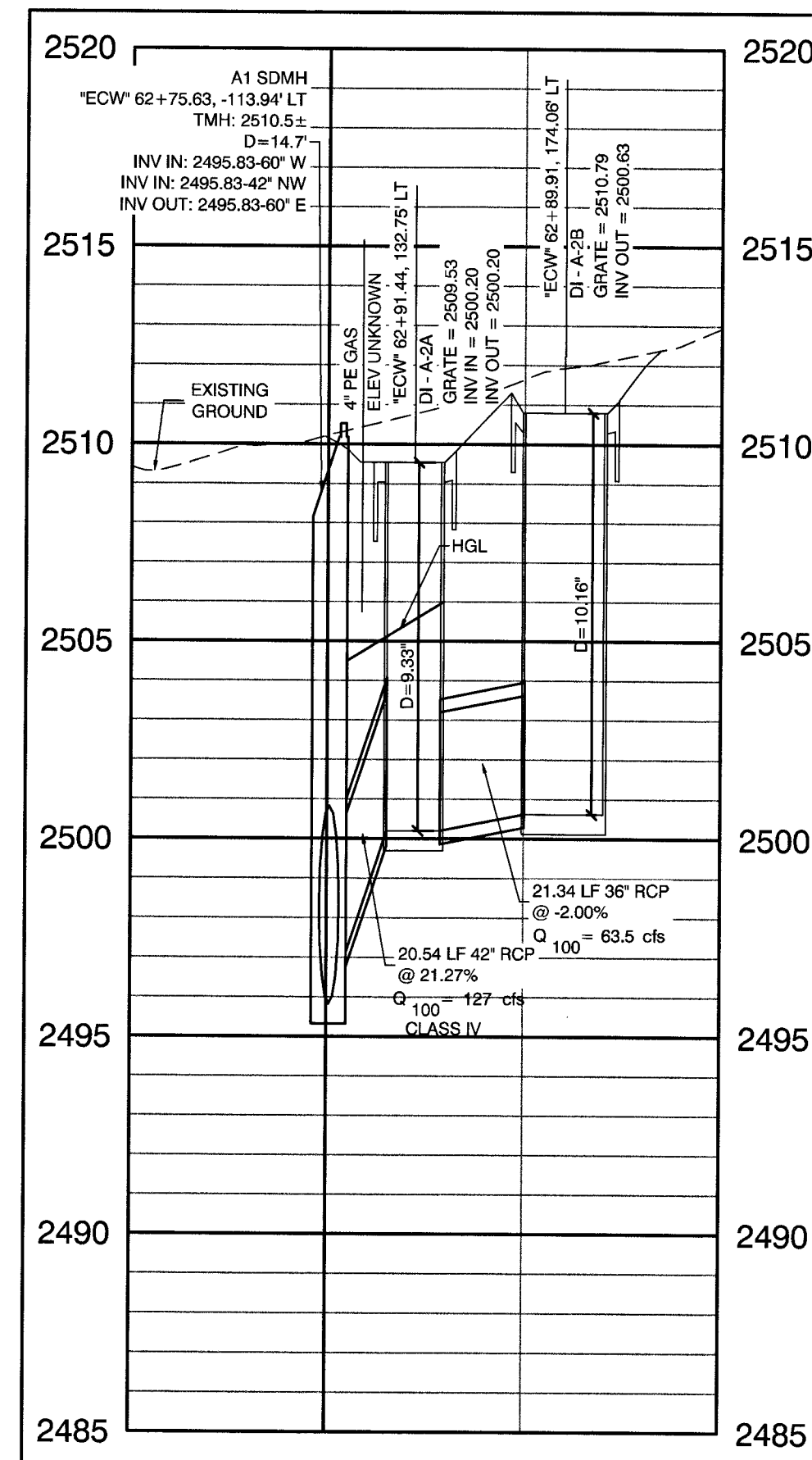
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SD15



STORM DRAIN LATERAL ANN ROAD

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD15



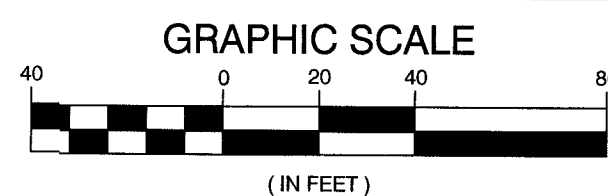
STORM DRAIN LATERAL ANN ROAD

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD15

CAUTION: GASLINE RELOCATION NOTE

CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS.



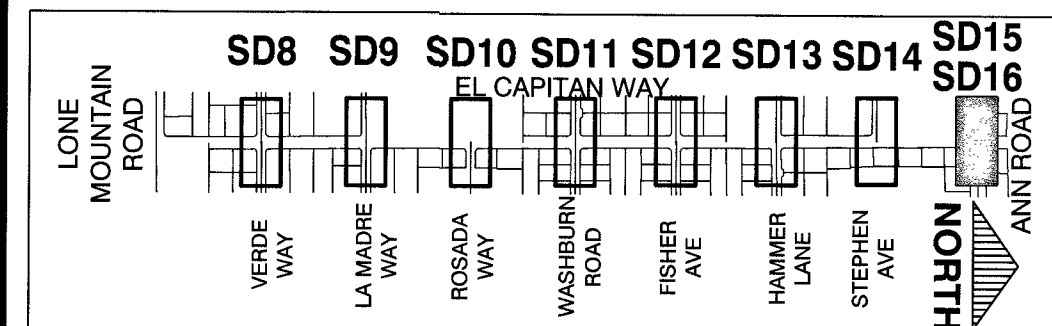
CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
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KEY MAP



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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

NO.	DATE	REVISIONS
1	8/21/18	OBTAINED BLM EASEMENT
2	3/14/18	STORM DRAIN REVISION ON ANN ROAD

PREPARED BY
GCW
ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
SUITE 100
LAS VEGAS, NV 89102
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ
DATE: 11/14/17
SUBMITTAL STAGE:
100% - FINAL

PREPARED FOR
CITY OF LAS VEGAS
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
LATERAL PROFILES
ANN ROAD - 1

ENGINEER
STEPHEN M. JONES
Exp. 06/30/2019
CIVIL
Professional No. 19638
9/19/2018

SHEET
SD15
37 OF 52
DRAWING NO.
327V294