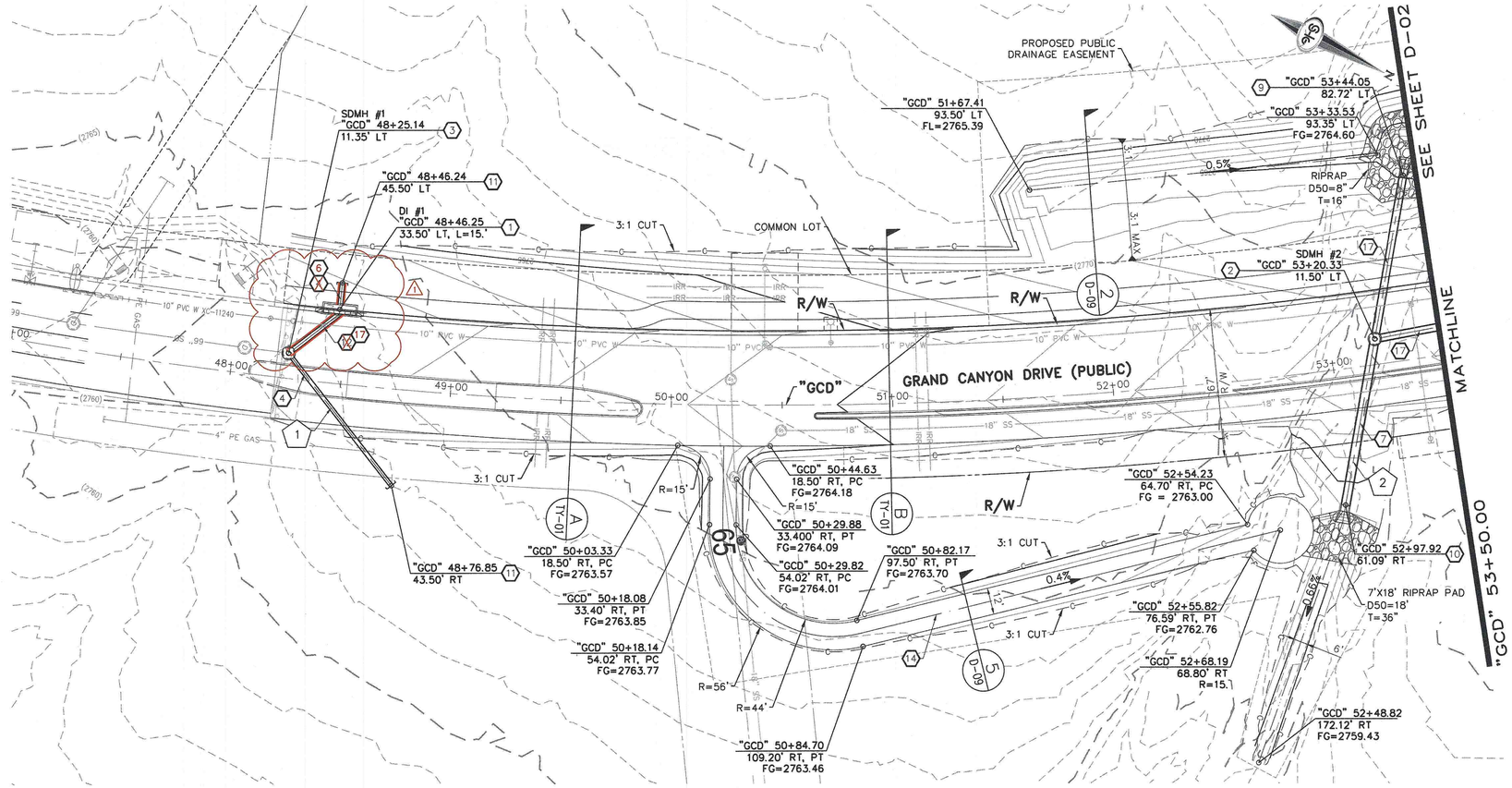
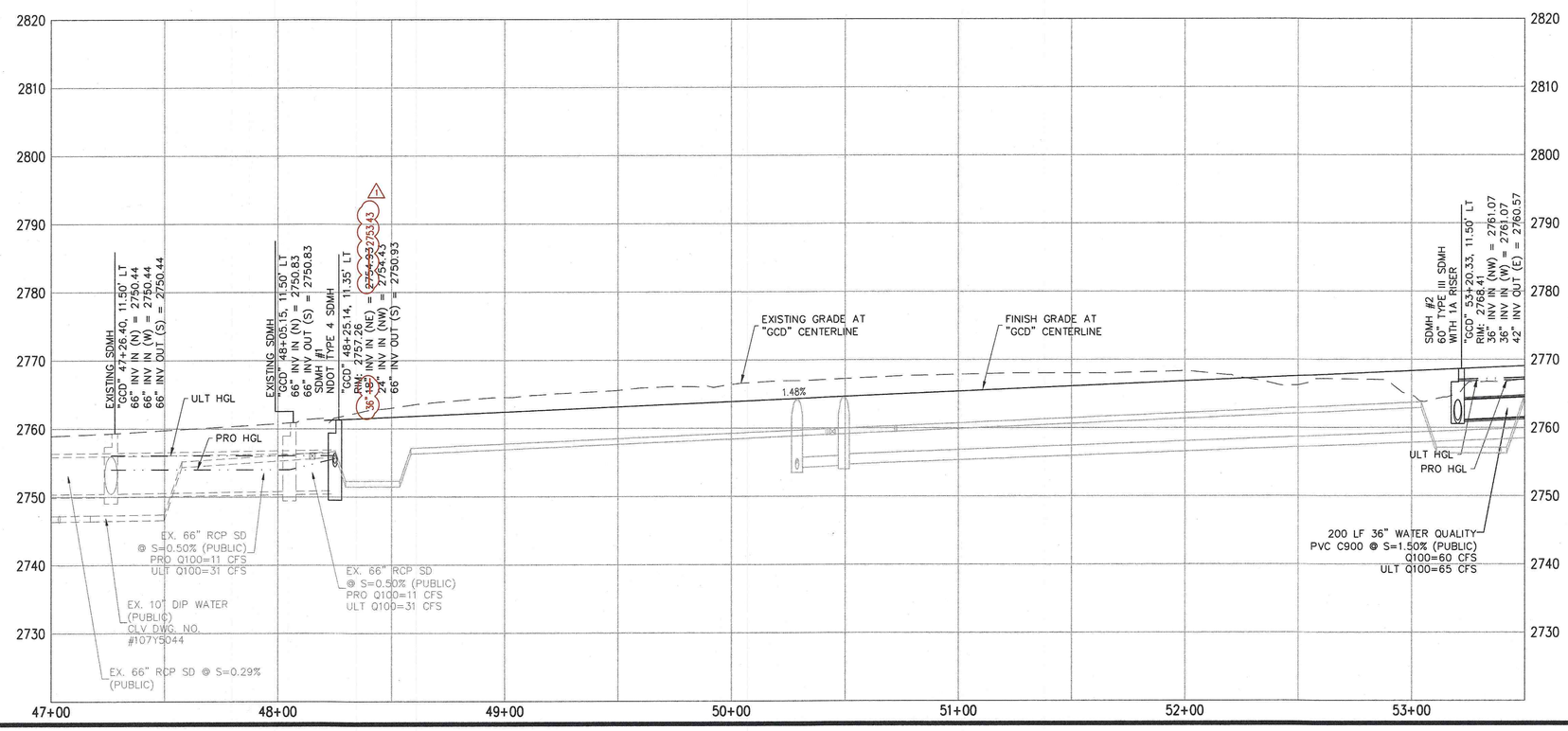




STORM DRAIN NOTES

1. CONSTRUCT TYPE "CM2" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
2. CONSTRUCT 60" TYPE III MANHOLE WITH TYPE IA RISER (USDCCA STD. DWG. NO. 404.1 AND 406.1)
3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
4. INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
5. INSTALL 30" RCP (USDCCA STD. DWG. NO. 503.2)
6. INSTALL 36" RCP (USDCCA STD. DWG. NO. 503.2)
7. INSTALL 42" RCP (USDCCA STD. DWG. NO. 503.2)
8. INSTALL 30" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
9. INSTALL 36" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
10. INSTALL 42" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
11. CONSTRUCT BRICK AND MORTAR PLUG (SEE DETAIL 3, DRAWING D-25)
12. INSTALL 24" RCP WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
13. CONSTRUCT 48" TYPE II MANHOLE WITH TYPE IA RISER (USDCCA STD. DWG. NO. 404.1 AND 406.1)
14. 12' TYPE II MAINTENANCE ACCESS PATH
15. INSTALL 18" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
16. INSTALL 30" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
17. INSTALL 36" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
18. INSTALL CHAIN LINK FENCE (USDCCA STD. DWG. NO. 252)
19. INSTALL CHAIN LINK GATES (USDCCA STD. DWG. NO. 253)

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES IN PUBLIC ROW ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. SEE UTILITY PLAN AND PROFILE SHEETS FOR UTILITY ADJUSTMENTS AND RELOCATIONS.
8. ALL INTERIM DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

(1) STORM DRAIN LATERAL # (SEE SHEET D-08 AND D-09)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY OS-4931 ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT

JERRY SLATER, P.E. 14167 — DATE 5-17-19

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1735E, DATED SEPTEMBER 27, 2002

NOTE:

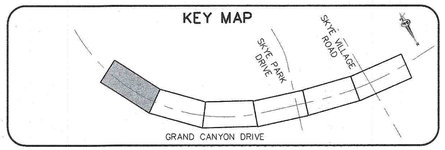
PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 126438 — FIRST APPROVED DATE: _____

KEY MAP



30 0 30 60
SCALE FEET

AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround.
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines, it's costly.
Call 811
1-800-227-2600

SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.
1	REVISED STORM DRAIN				

NINETY-FIVE MANAGEMENT LLC

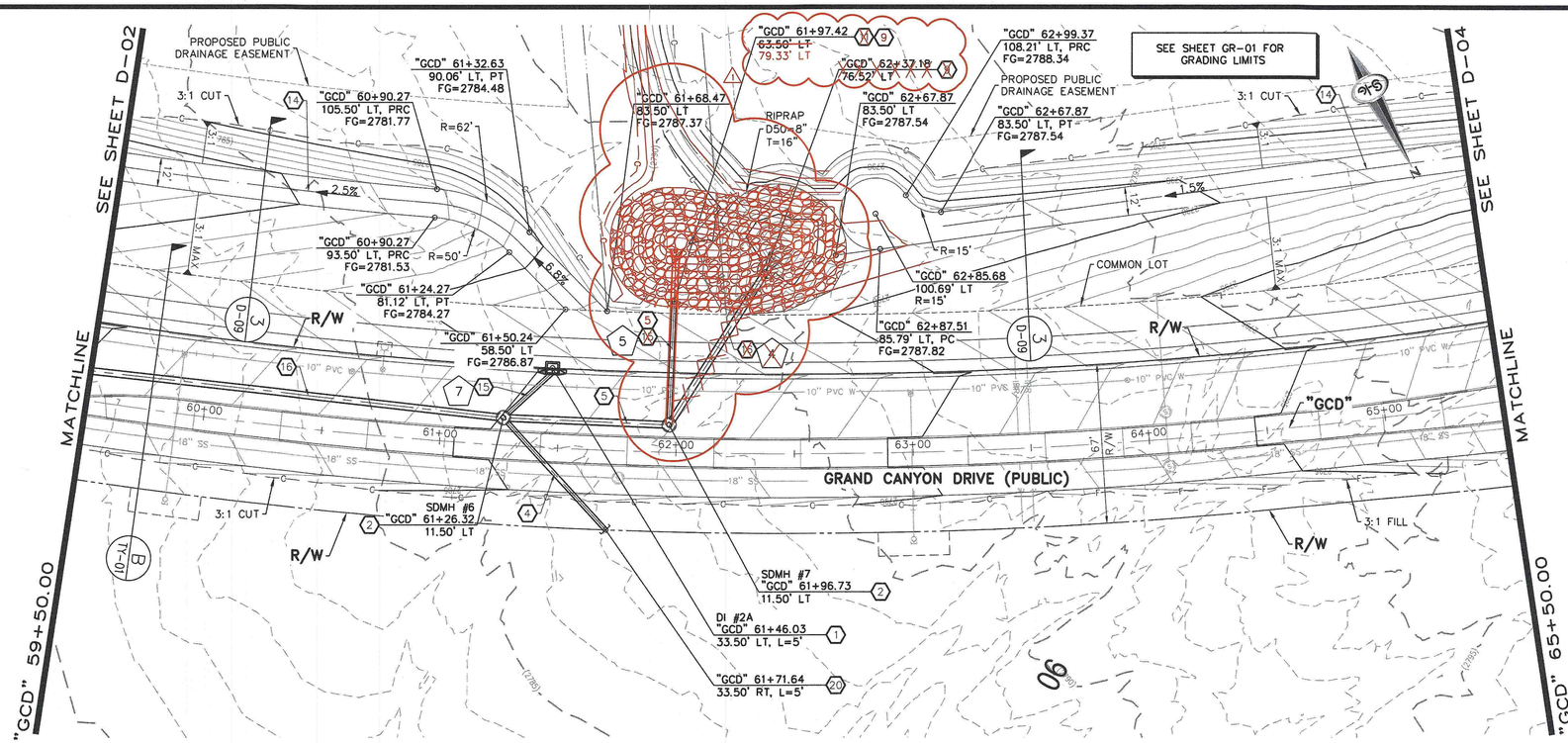
SKYE CANYON II PHASE 3A
GRAND CANYON DRVE
STORM DRAIN PLAN AND PROFILE - "GCD" 47+00.00 TO "GCD" 53+50.00

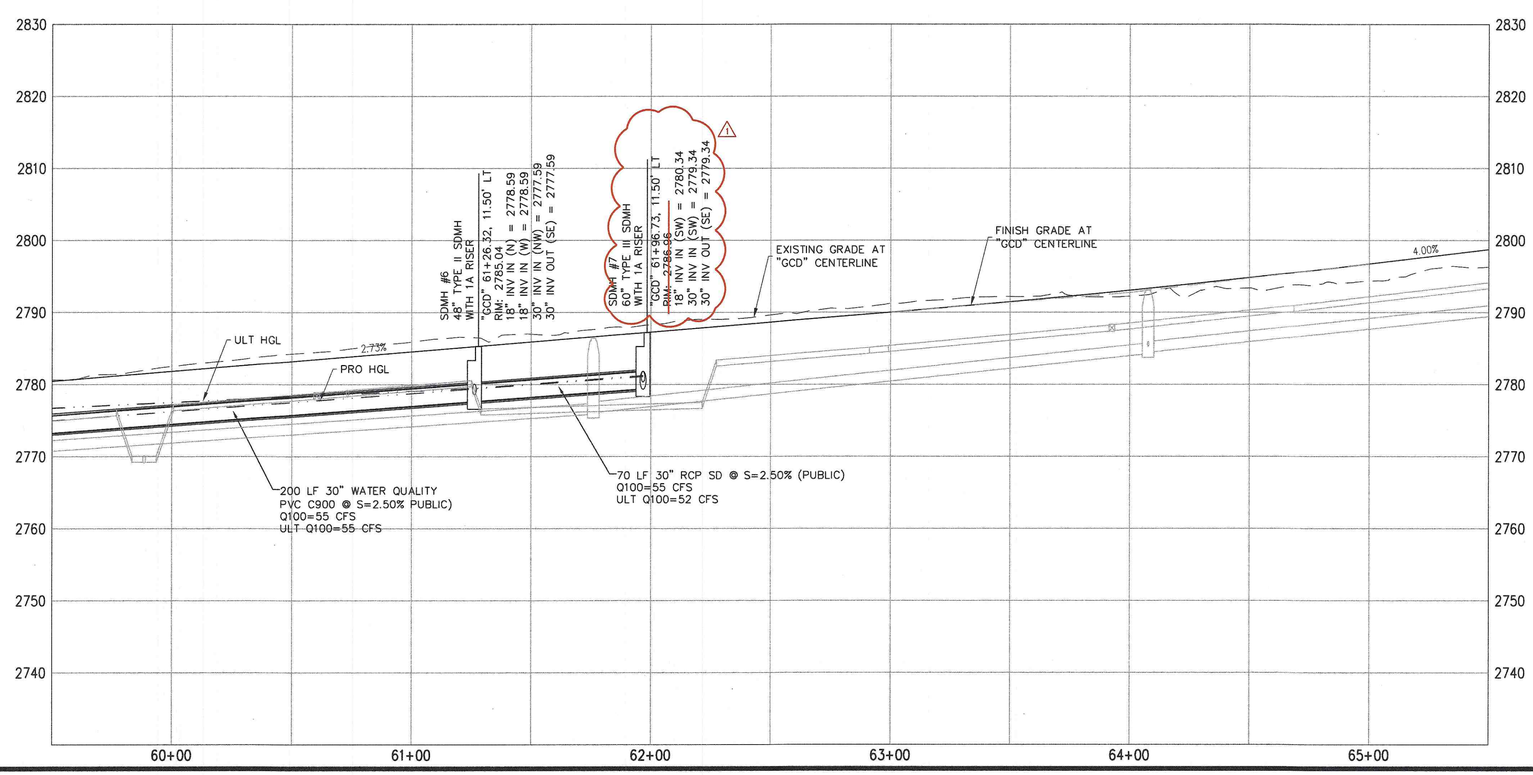
DATE: 2/14/19
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR
PROJECT NO. OLY1609-000

PROFESSIONAL ENGINEER — STATE OF NEVADA — JERRY J. SLATER — Exp. 06/30/2020 — CIVIL — No. 14167 — 5-17-19

D-01
SHEET 12 OF 44
DWG# 107V7654

L18-02142





STORM DRAIN NOTES

1. CONSTRUCT TYPE "CM2" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
2. CONSTRUCT 60" TYPE III MANHOLE WITH TYPE IA RISER (USDCCA STD. DWG. NO. 404.1 AND 406.1)
3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
4. INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
5. INSTALL 30" RCP (USDCCA STD. DWG. NO. 503.2)
6. INSTALL 36" RCP (USDCCA STD. DWG. NO. 503.2)
7. INSTALL 42" RCP (USDCCA STD. DWG. NO. 503.2)
8. INSTALL 30" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
9. INSTALL 36" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
10. INSTALL 42" RCP END SECTION (NDOT STD. PLAN R-2.3.1)
11. CONSTRUCT BRICK AND MORTAR PLUG (SEE DETAIL 3, DRAWING D-25)
12. INSTALL 24" RCP WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
13. CONSTRUCT 48" TYPE II MANHOLE WITH TYPE IA RISER (USDCCA STD. DWG. NO. 404.1 AND 406.1)
14. 12' TYPE II MAINTENANCE ACCESS PATH
15. INSTALL 18" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
16. INSTALL 30" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
17. INSTALL 36" WATER QUALITY C900 PVC (USDCCA STD. DWG. NO. 503.2)
18. INSTALL CHAIN LINK FENCE (USDCCA STD. DWG. NO. 252)
19. INSTALL CHAIN LINK GATES (USDCCA STD. DWG. NO. 253)

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES IN PUBLIC ROW ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. SEE UTILITY PLAN AND PROFILE SHEETS FOR UTILITY ADJUSTMENTS AND RELOCATIONS.
8. ALL INTERIM DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

(1) STORM DRAIN LATERAL # (SEE SHEET D-08 AND D-09)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS-4931 ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT

JERRY SLATER, P.E. 14167 — DATE 5-27-19

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 500-YEAR FLOOD PLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANEL: 32003C1735E, DATED SEPTEMBER 27, 2002

NOTE:

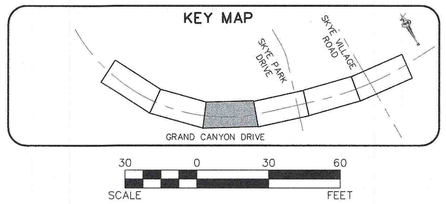
PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 126438 — FIRST APPROVED DATE: _____

KEY MAP



AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD — 1-702-227-2929

FAST — Call before you UnderGround. 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig — Avoid cutting underground utility lines, it's costly. Call 811 or 1-800-227-2600

SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.
1	REVISED STORM DRAIN				

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON II PHASE 3A
GRAND CANYON DRIVE
STORM DRAIN PLAN AND PROFILE - "GCD" 59+50.00 TO "GCD" 65+50.00

DATE: 2/14/19
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR

PROJECT NO.
OLY1609-000

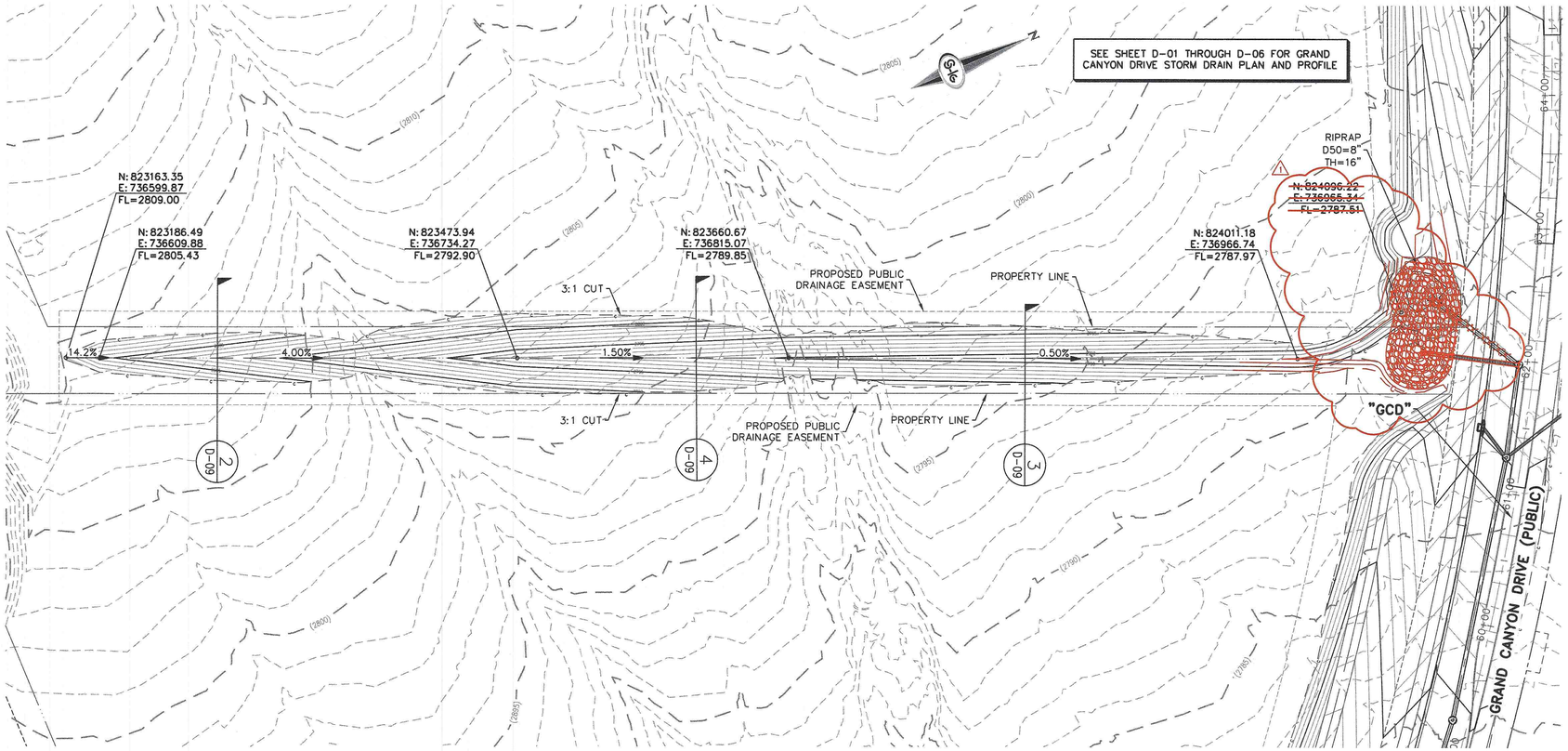
PROFESSIONAL ENGINEER — STATE OF NEVADA — JERRY SLATER — Exp. 06/30/2020 — CIVIL — No. 14167 — 5-27-19

D-03

SHEET 14 OF 44

DWG# 107V7654

L18-02142



NOTE:

PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

SCALE 50 0 50 100 FEET

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround.
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP DATE	APP.
1	REVISED STORM DRAIN				

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON II PHASE 3A
GRAND CANYON DRIVE
GRADING PLAN

DATE: 2/14/19
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR

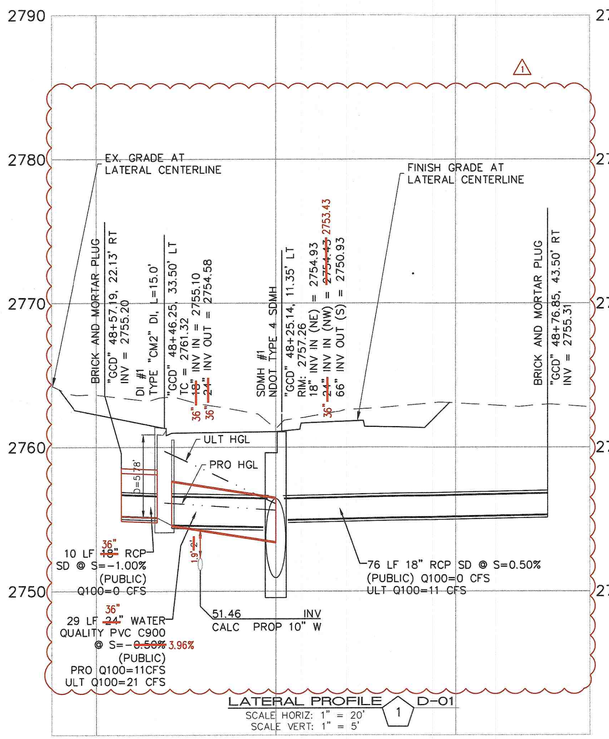
PROJECT NO.
OLY1609-000

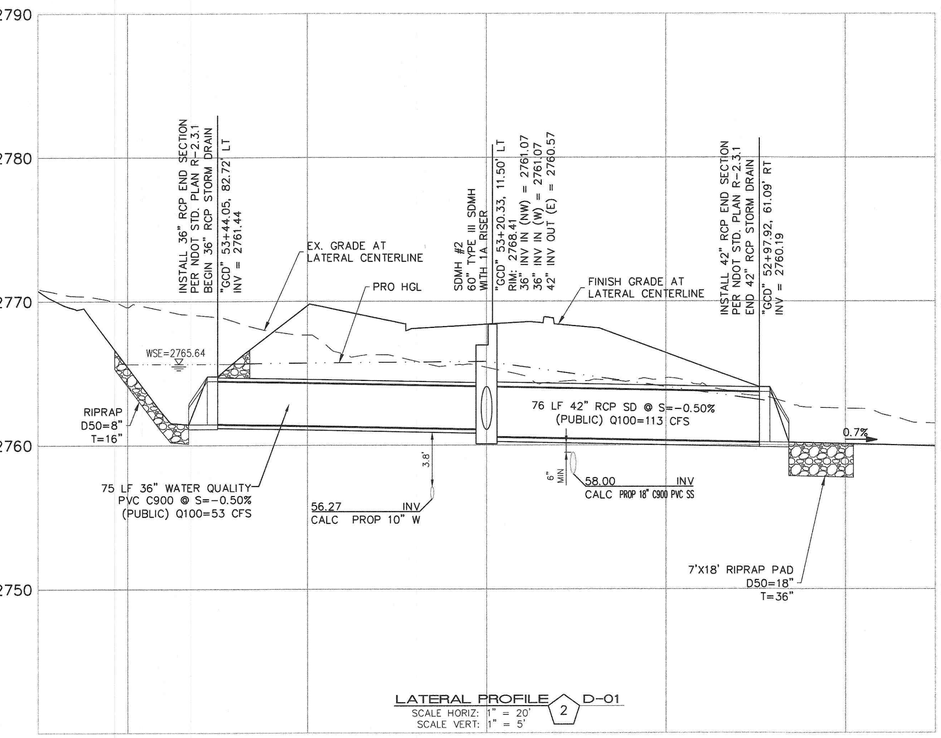
PROFESSIONAL ENGINEER – STATE OF NEVADA
JERRY SLATER
EXP. 06/30/2020
CIVIL
No. 14167
5-27-19

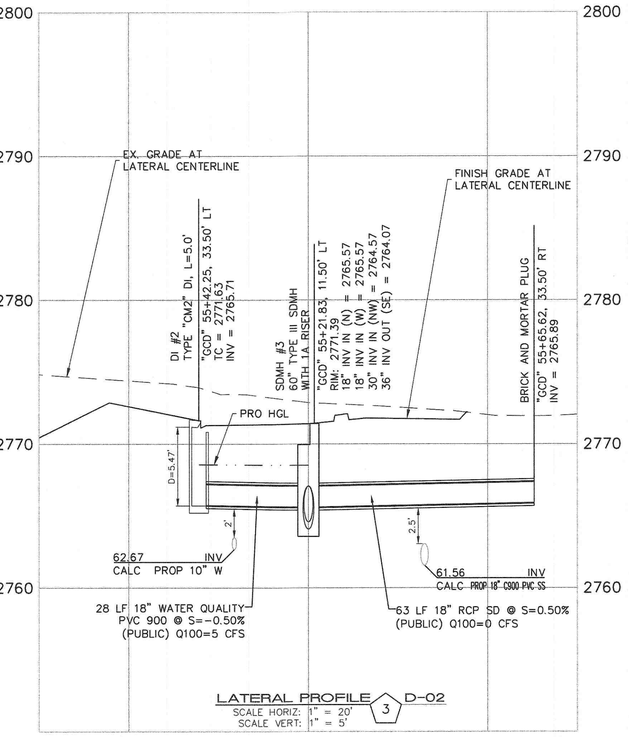
D-07
SHEET 18 OF 44

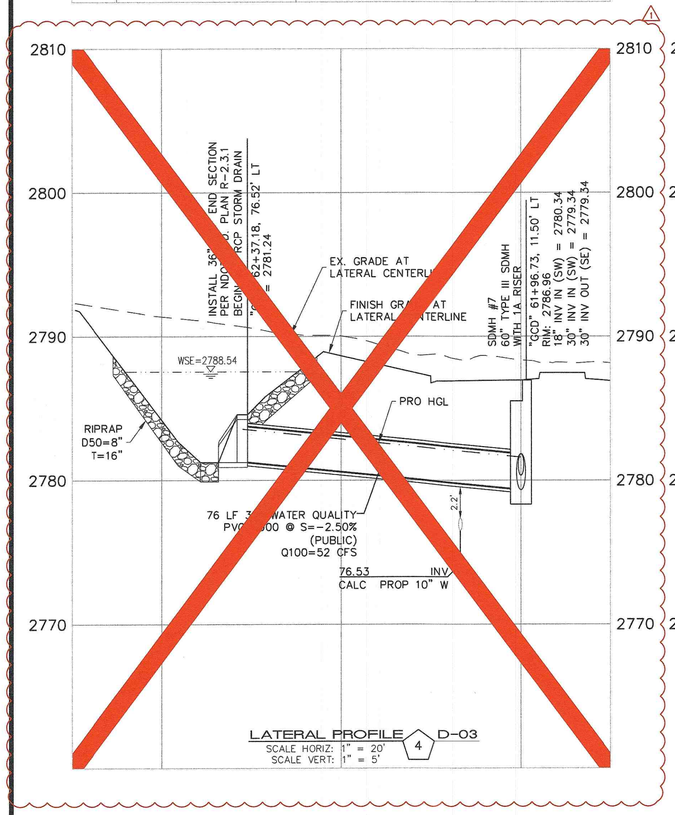
DWG# 107V7654

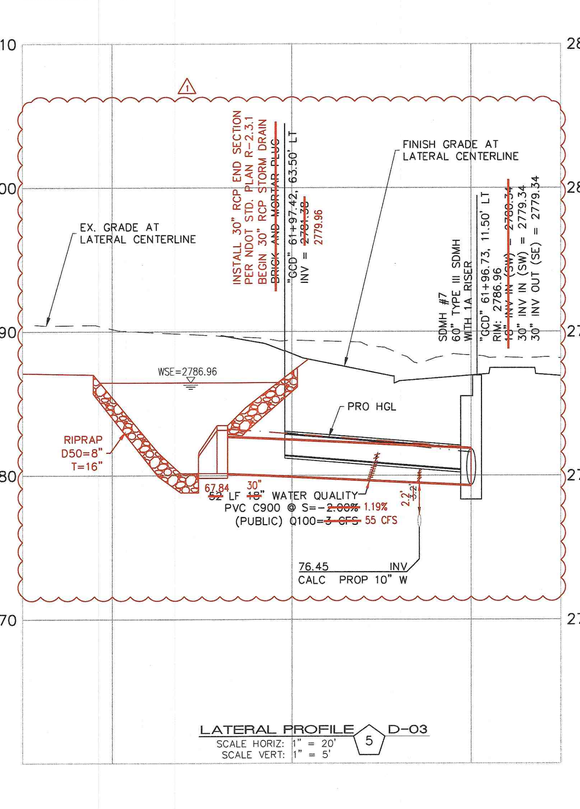
L18-02142

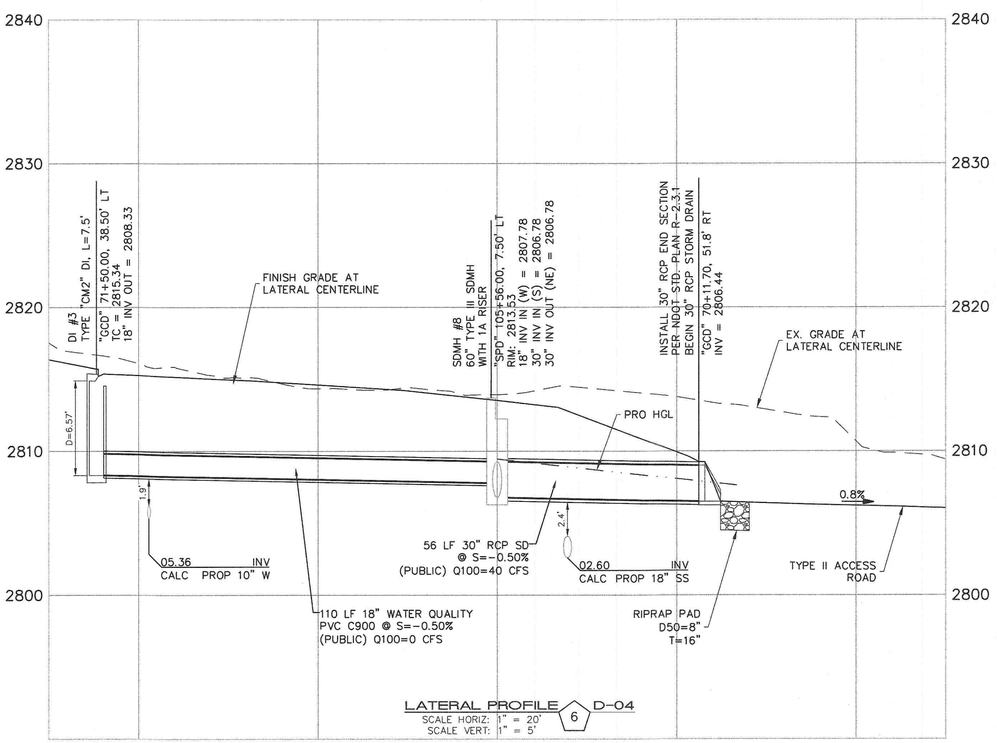












APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 126438 FIRST APPROVED DATE: _____

SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE
1	REVISED STORM DRAIN			

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON II PHASE 3A
GRAND CANYON DRIVE
STORM DRAIN LATERAL PROFILE

DATE: 2/14/19
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR
PROJECT NO. OLY1609-000

PROFESSIONAL ENGINEER - STATE OF NEVADA
JERRY SLATER
Exp. 06/30/2020
CIVIL
No. 14167
5-27-19

D-08
SHEET 19 OF 44

DWG# 107V7654

L18-02142