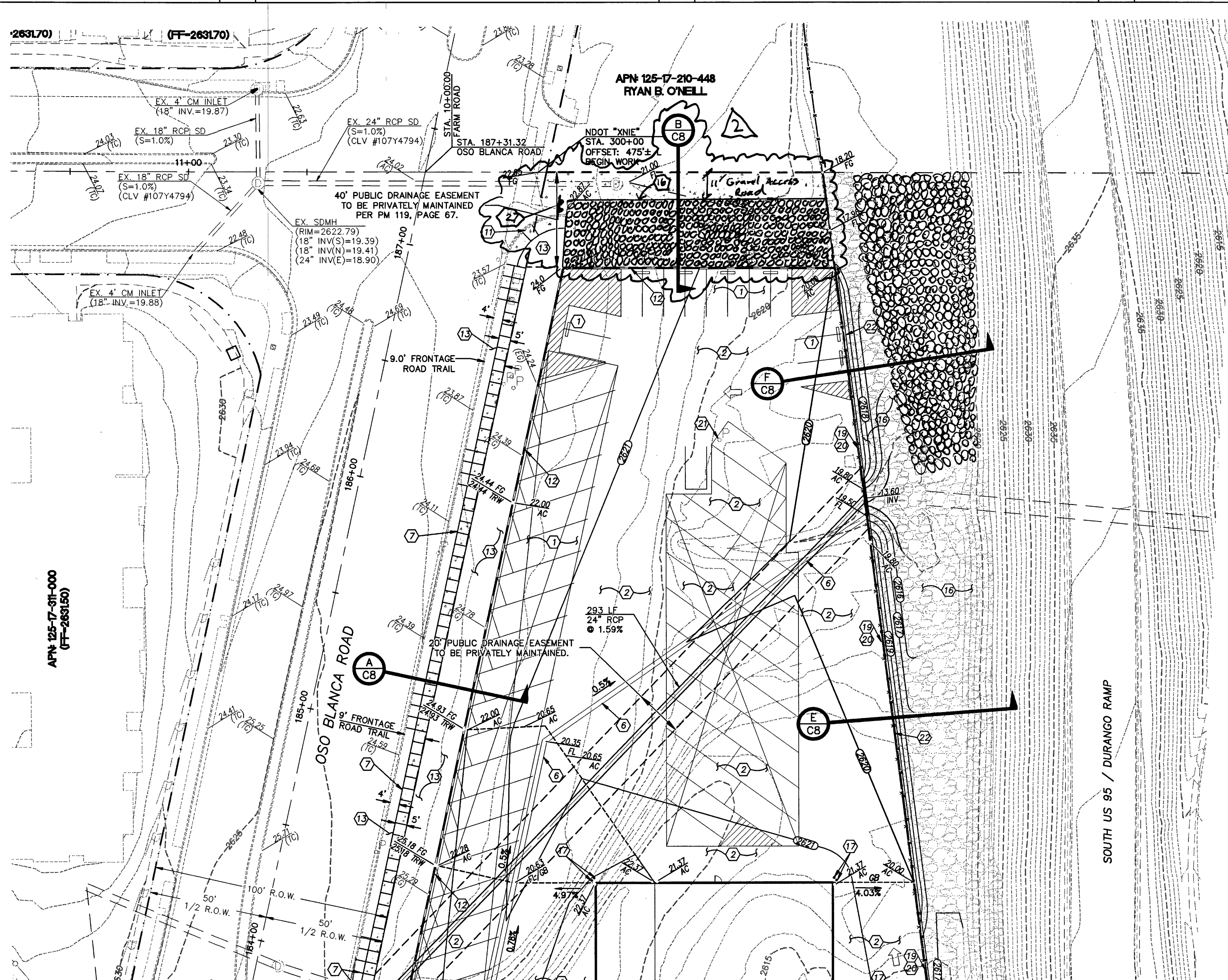


ABBREVIATIONS (SEE C.V.R. SHT. FOR COMPLETE LIST)	
AC	ASPHALTIC CONCRETE
ADJ	ADJUST
AGG	AGGREGATE
BC	BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BEG	BEGIN
BSW	BACK OF SIDEWALK
BVC	BEGINNING OF VERTICAL CURVE
CATV	CABLE TV
CCAUSSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT CENTERLINE
CL	CITY OF LAS VEGAS
CMU	CONCRETE MASONRY UNIT
CLN	CLEAN OUT
COMM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDUIT
CULV	CULVERT
DC	DEPRESSED CURB
DI	DIP
DI	DUCTILE IRON PIPE
DOM	DOMESTIC
EAC	ELECTRIC
EC	EDGE OF AC
ECR	END OF CURB RETURN
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EVC	END OF VERTICAL CURVE
EX	EXISTING
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTICS
FS	FINISHED SURFACE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HWL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
LS	LANDSCAPE
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTR	METER
PB	PULL BOX
PL	PROPERTY LINE
PP	POWER POLE
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE PIPE
PVMT	PAVEMENT
RT	RIGHT
ROW	RIGHT-OF-WAY
SS	SANITARY SEWER
SD	STORM DRAIN
SNWA	SOUTHERN NEVADA WATER AUTHORITY
STL	STATION
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
TEL	TELEPHONE
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VG	VALLEY GUTTER
WL	WATER LINE

LEGEND	
DESCRIPTION	EXISTING PROPOSED
UTILITIES	
B.O. VALVE	
FIRE HYDRANTS	
CLEAN OUT	
GATE VALVE	
METER	
REDUCER	
CAP	
11.25' ELBOW	
22.5' ELBOW	
45' ELBOW	
90' ELBOW	
CROSS	
TEE	
MANHOLES	
ELECTRICAL	
SANITARY SEWER	
STORM DRAIN	
TELEPHONE	
STREET LIGHTS	
100W HPS STL.	
150W HPS STL.	
200W HPS STL.	
250W HPS STL.	
400W HPS STL.	
GRADING	
SPOT ELEV.	12.34 TC
SLOPE	1.23%
5' CONT.	2005
1' CONT.	2007
SITE	
SGN	
"L" CURB	
"A" CURB	
EDGE OF P.V.M.T.	
WALL	
LINE TYPES	
CL OR SECTION LINE	
PROPERTY LINE	
RIGHT OF WAY LINE	
EASEMENT LINE	
SAWCUT LINE	
FLOW LINE	
SHADES	
HEAVY AC PAVEMENT	
LIGHT AC PAVEMENT	
CONCRETE PAVEMENT	



MATCHLINE - SEE SHEET C5 FOR CONTINUATION

ENGINEER'S ESTIMATE OF QUANTITIES

NOTE: THIS QUANTITY ESTIMATE IS FOR BONDING PURPOSES ONLY. CONTRACTOR TO DETERMINE INDEPENDENT ESTIMATIONS.

DRAINAGE QUANTITIES (PUBLIC)	
24" RCP EXCAVATION AND EMBANKMENT	283 LF
	1104 CY
SURFACE QUANTITIES (PRIVATE)	
2" AC PAVEMENT	267 CY
3" AC PAVEMENT	810 CY
VALLEY GUTTER	1545 SF
"A" TYPE CURB & GUTTER	606 LF
SURFACE QUANTITIES (PUBLIC)	
5" AC PAVEMENT	5 CY
CROSS GUTTER	78 SF
CONCRETE SIDEWALK	2850 SF

STORMWATER MANAGEMENT NOTES:

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS ORDINANCE 14.18 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

GRADING NOTES:

- SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY OR SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY CIVILWORKS INC WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. CIVILWORKS INC WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

GRADING PLAN CERTIFICATION

JODI E. JORJIAN PE #13816 11/28/15 DATE

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT. (DS4261)

FLOOD ZONE NOTE

A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003C1785F DATED NOVEMBER 16, 2011 INDICATES THE SITE IS LOCATED WITHIN A FEMA ZONE "X". A ZONE "X" IS DESCRIBED AS FEMA AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

GEOTECHNICAL NOTES:

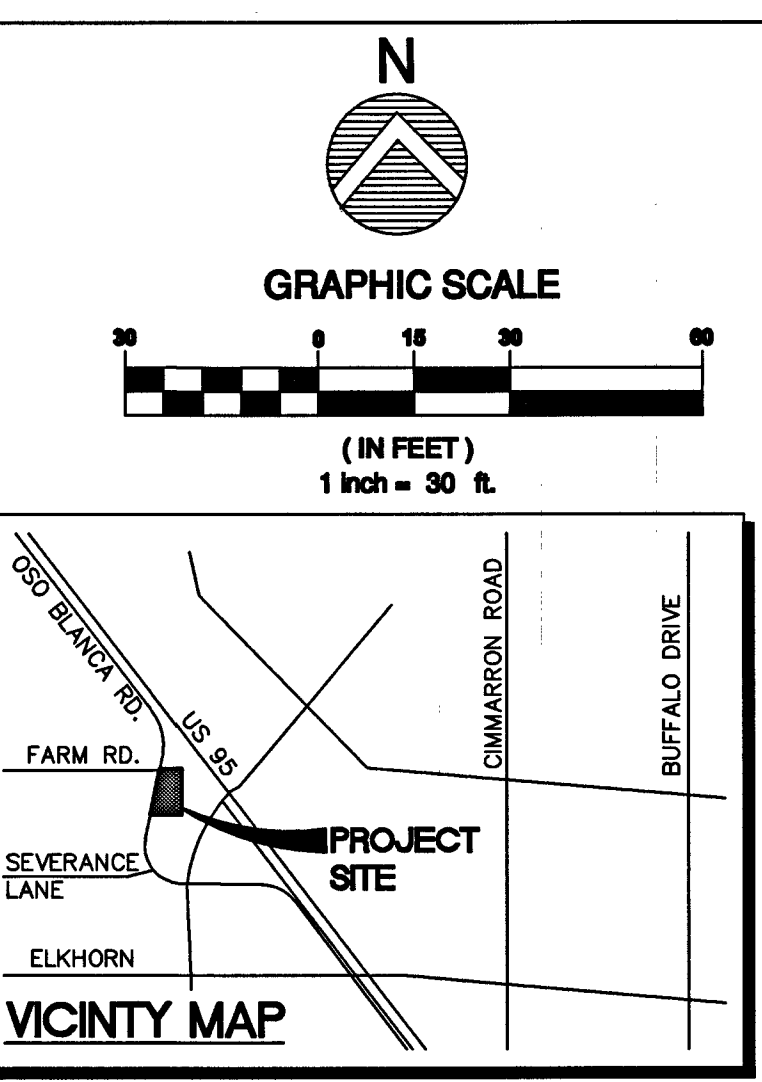
A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE-DESIGN EXPLORATION AND TESTING.

CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINE IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY:

GEOTEK
DATE: JULY 2, 2014
PROJECT #11883-LV6

NOTE

NO WORK IS ALLOWED WITHIN NDOT R.O.W. WITHOUT AN NDOT PERMIT.



BASIS OF BEARING

SOUTH 00°08'57" WEST, BEING THE WEST LINE OF THE GOVERNMENT LOT 11, LYING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 17, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN IN BOOK 140, PAGE 12 OF PLATS IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # SLV90 1756

A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF OSO BLANCA ROAD AND DURANGO DRIVE.

NAVD 88 ELEVATION = 798.4331 METERS / 2619.53 FEET
NORTH AMERICAN DATUM OF 1988

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
 - CONSTRUCT 2" AC PAVEMENT OVER 4" TYPE II AGGREGATE BASE.
 - CONSTRUCT 3" AC PAVEMENT OVER 6" TYPE II AGGREGATE BASE.
 - CONSTRUCT "A" TYPE CURB PER DETAIL ON SHEET C8.
 - CONSTRUCT "L" TYPE CURB PER CCAUSD #216.
 - CONSTRUCT 60" TYPE III MANHOLE WITH BOLTED DOWN GRATE MANHOLE COVER PER CCAUSD #408.
 - CONSTRUCT 2" CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C8.
 - CONSTRUCT CONCRETE SIDEWALK PER CCAUSD #234.
 - CONSTRUCT U-GUTTER PER DETAIL ON SHEET C8.
 - CONSTRUCT 6" CONCRETE OVER 4" TYPE II AGGREGATE BASE WITH 2" CONC. EDGEWALL.
 - ADJUST TO GRADE.
 - CONSTRUCT CONCRETE SIDEWALK RAMP PER CCAUSD #235, CASE I.
 - RETAINING WALL. SEE STRUCTURAL PLANS.
 - LANDSCAPE AREA. SEE LANDSCAPE PLANS.
 - REMOVE AND REPLACE CROSS GUTTER PER CCAUSD #228.
 - TRASH ENCLOSURE. SEE ARCHITECT'S PLANS.
 - CONSTRUCT RIPRAP PER NDOT STD. DWG. R-3.1.5. SEE DETAILS FOR SIZE.
 - CONSTRUCT BOLLARDS. SEE DETAIL ON SHEET C8.
 - INSTALL 4" MAX RETAINING WALL. SEE SECTION C ON SHEET C8.
 - CONSTRUCT 12"x6" RIBBON CURB. SEE DETAIL ON SHEET C8.
 - INSTALL WROUGHT IRON FENCE.
 - REMOVE EXISTING POLE/BOLLARD.
 - REMOVE EXISTING FENCE TO PROPERTY LINE.
 - TRANSITION CURB FROM 6" TO 0" FACE CURB.
 - 0" CURB
 - REMOVE AND REPLACE EXISTING MEDIAN.
 - SAWCUT, BACKFILL AND PAVEMENT PER CCAUSD #500.5 AND #503.
 - INSTALL TYPE IIIA BARRICADE PER CCAUSD #601, DETAIL SHEET C8.

REVISIONS

1. ADDED TYPE IIIA BARRICADE PER CCAUSD #601, DETAIL SHEET C8.

2. ADDED TYPE IIIA BARRICADE PER CCAUSD #601, DETAIL SHEET C8.

3. ADDED TYPE IIIA BARRICADE PER CCAUSD #601, DETAIL SHEET C8.

4. ADDED TYPE IIIA BARRICADE PER CCAUSD #601, DETAIL SHEET C8.

GRADING PLAN 1

PRINTS REQUIRE ARCHITECT'S SEAL & SIGN FOR PROOF OF VALIDITY

JODI E. JORJIAN
Exp: 6/30/17
CIVIL
No. 13816

107V6538

SHT. NO. C4
SHEET 4 OF 10

THIS DRAWING IS AN INSTRUMENT OF SERVICE BETWEEN THE ARCHITECT AND HIS CLIENT, BUT REMAINS THE PROPERTY OF THE ARCHITECT.

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planning/interior design
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(702) 876-0668
professional corp / certified n.c.a.r.b.

architecture/engineering/site
GARY GUY WILSON
4945 West Patrick Lane
Las Vegas, Nevada 89118

ELEC: N/A
MECH: N/A

CONSULTANTS:
CivilWorks Inc
4945 W. 2000 S. LANE, SUITE 100, LAS VEGAS, NV 89118
CIVIL (702) 244-2555 FAX (702) 244-2555

STORAGEONE
@ 7422 OSO BLANCA ROAD
NEW COMMERCIAL CONSTRUCTION
FOR: WESTAR/STORAGEONE
LAS VEGAS, NEVADA

PROJ. NO.	14981320.00
PRIN. ARCH.	G.G. WILSON, AIA
PROJ. ARCH.	-
JOB CAPT.	MM
DESIGNER	TND
ENGINEER	PDW
PH-2/3	-
PH-4	-
PH-5	-