

- CONSTRUCTION NOTES:**
- 1. 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.
  - 2. NOT ALL NOTES USED ON THIS SHEET -
  - 3. CONSTRUCT CONC. PAVEMENT PER DETAIL ON THIS PAGE.
  - 4. CONSTRUCT "A" TYPE CURB PER DETAIL 1 ON C-5
  - 5. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
  - 6. CONSTRUCT SIDEWALK RAMP, CCAUSD No. 235 CASE 1.
  - 7. CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1. WITH CROSS GUTTER PER CCAUSD No. 228.
  - 8. LANDSCAPING. REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS.
  - 9. CONSTRUCT 4' CURB OPENING PER DETAIL 3 ON C-5
  - 10. MATCH EXISTING.
  - 11. INSTALL RIP RAP (D50 = 4") THICKNESS (T) = 8". LENGTH = 40'
  - 12. INSTALL AC PAVEMENT 3" AC OVER 7" TYPE II.
  - 13. TEMPORARY CONSTRUCTION FENCING.
  - 14. INSTALL 36"x36" JENSEN PRECAST DROP INLET PER USDOCCA DWG No. 421
  - 15. AIR/VACUUM UNIT PER MURPHY PLANS.
  - 16. ICE MACHINES (2) PER MURPHY PLANS.
  - 17. DUMPSTER ENCLOSURE PER ARCHITECTURAL PLANS.
  - 18. PROPANE TANKS PER MURPHY PLANS.
  - 19. UNDERGROUND TANK, PAVEMENT PER MURPHY PLANS, PIPE AND VENT SYSTEM PER TANK PLANS.

- GRADING NOTES:**
- 1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIAL) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
  - 2. 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.
  - 3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
  - 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: UNITED CONSULTING, PROJECT No. 2015.0502.01, DATED: JULY 23 2015.

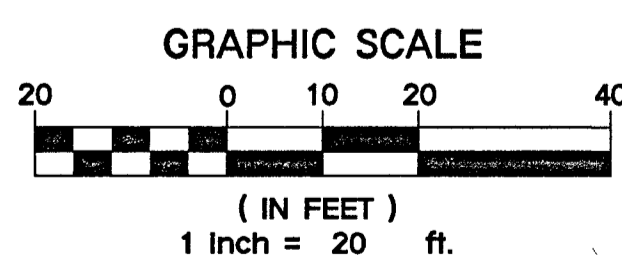
CUT	FILL
876.16 CY	397.12 CY

NOTE: CUT/FILL QUANTITIES ARE TO FINISHED GRADE & DO NOT INCLUDE MATERIAL THICKNESS'S, FOOTINGS, ETC.

**GRADING PLAN CERTIFICATION**

NAME: GUY M. MORRIS PE #14526 DATE: 6-15-17

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#4771B



A.P.N.: 138-02-713-003

**BASIS OF BEARINGS:**  
THE BASIS OF BEARINGS IS THE SOUTHERLY LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 2, TOWNSHIP 20 SOUTH, RANGE 60 EAST N.D.M. AS SHOWN ON THAT MAP ON FILE IN FILE 192, PAGE 31 OF SURVEY IN THE CLARK COUNTY RECORDERS OFFICE, SAID LINE BEARS: (NORTH 83°42'46" WEST.

**BENCHMARK:**  
BENCHMARK NO. SLV00224, CITY OF LAS VEGAS BENCHMARK. RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF CRAIG ROAD AND JONES BOULEVARD. ELEVATION=2261.88 FEET / 689.423 METERS (NAVD 88 DATUM)

**SAFETY ALERT**

Call before you dig. Avoid cutting underground utility lines. It's costly.

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- GENERAL GRADING NOTES:**
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND HIS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
  - ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDDED/SOODED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
  - REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
  - CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION, THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.

**LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL SECTION 3.5.1 STANDARD NOTES 1-5**

- 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 ACCUMULATED IN OR NEAR THE PUBLIC RIGHT-OF-WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL 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 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PROCEDURES 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 OR 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 NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A 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.

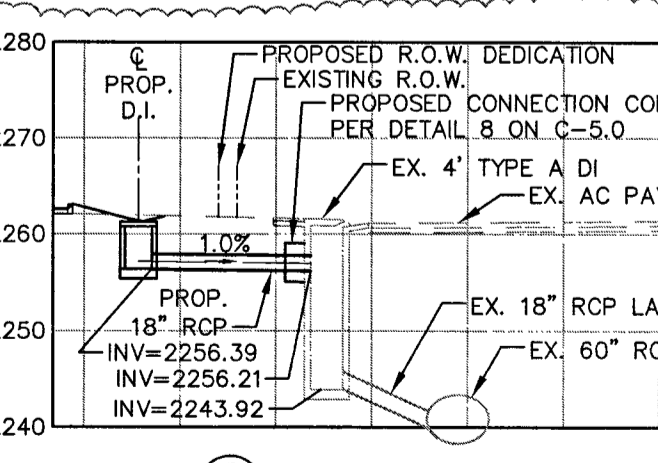
**SIDEWALK RAMP TABLE**

No.	GRADE (%) "b" TO "a"	"a" (FT) MIN.	"b" (FT) MIN.
R1	-6 TO -5.01	4.5	21.5
R2	-5 TO -4.01	4.5	15.0
R3	-4 TO -3.01	4.5	12.0
R4	-3 TO -2.01	4.5	9.5
R5	-2 TO 2	8	8.0
R6	2.01 TO 3	9.5	4.5
R7	3.01 TO 4	12.0	4.5
R8	4.01 TO 5	15.0	4.5
R9	5.01 TO 6	21.5	4.5

TRANSITION LENGTHS FOR 1:12 SIDE SLOPES

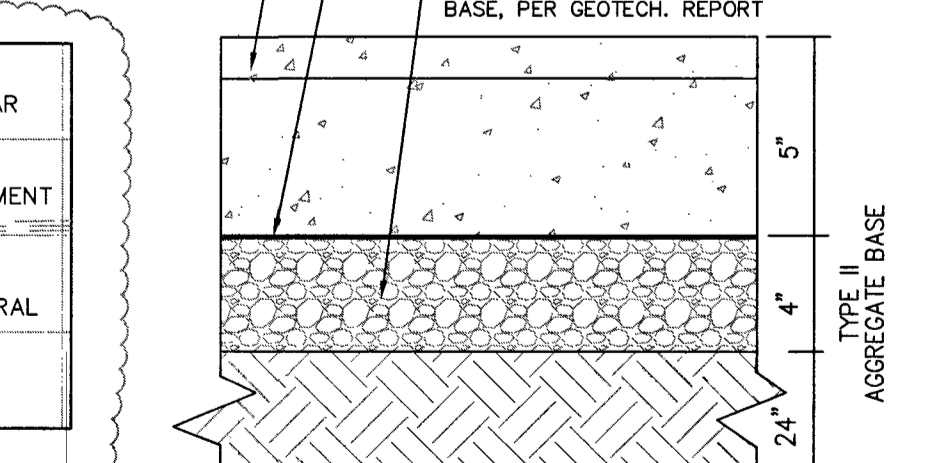
**EXISTING UTILITY NOTE:**

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH PROPOSED FINISH GRADE ELEVATIONS.



W/F 6 X 6 - W1.4 X W1.4 PULLED UP INTO UPPER HALF OF CONCRETE SLAB  
4 MIL POLYETHYLENE VAPOR BARRIER, REQUIRED WHEN HIGH WATER TABLE IS EXPECTED ON SITE. SEE GEOTECH REPORT.

WELL GRADED, COMPACTED GRANULAR BASE, PER GEOTECH. REPORT



**SITE PAVEMENT CONCRETE SECTION**  
N.T.S.

**FLOOD ZONE NOTE:**

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAPS (FIRM) FOR THE CLARK COUNTY AND INCORPORATED AREAS, NEVADA, COMMUNITY PANEL NUMBER: 3200032155F, EFFECTIVE DATE: NOVEMBER 16, 2011. THE SITE FALLS WITHIN ZONE "X", DESCRIBED BY FEMA AS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

**LEGEND**

CL. OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS	200W HPS STREETLIGHTS	250W HPS STREETLIGHTS	
---	---	EXISTING:	---	---	---	---	---	---	---	---	(12.34) BC	---	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
---	---	PROPOSED:	---	---	---	---	---	---	---	---	(12.34) BC	---	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	

MURPHY OIL USA, INC.  
MURPHY USA  
422 NORTH WASHINGTON  
EL DORADO, AR 71730

**Lochsa Engineering**

MURPHY EXPRESS  
CRAIG RD. AND JONES BLVD.  
CITY OF LAS VEGAS, NEVADA

PROJECT No.: 151068  
DATE: 04/07/16  
SCALE: 1"=20'  
DRAWN BY: LAS  
DESIGNED BY: LAS  
CHECKED BY: GMM

SHEET No. C-3.1  
SHEET 6 OF 8  
107V6740 H#63369

6/4/2017 12:18 PM  
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