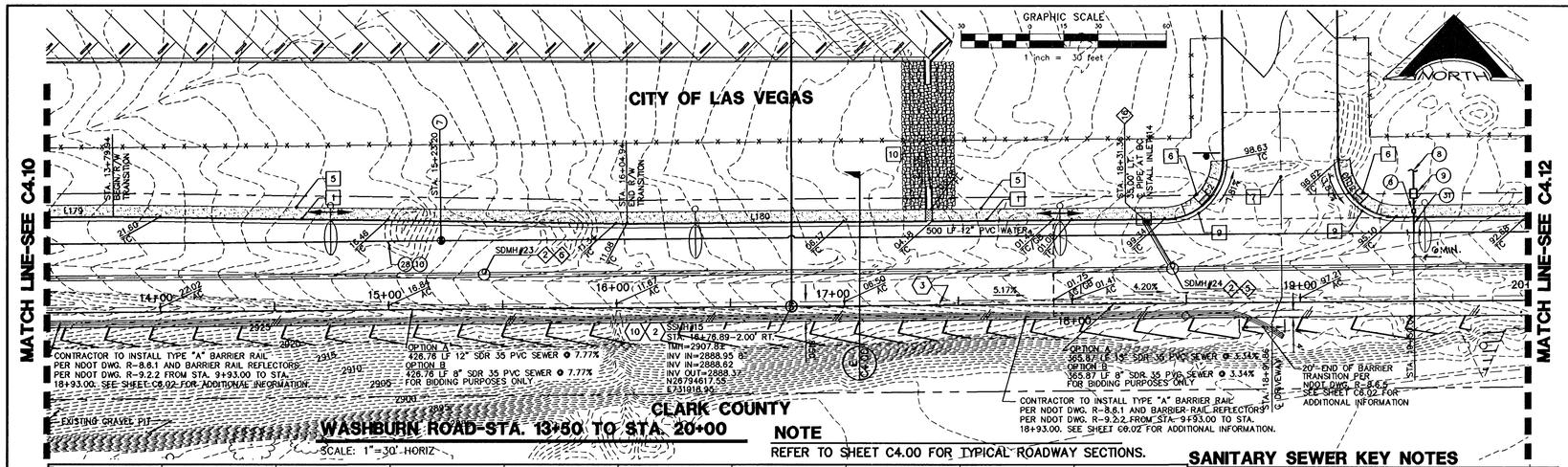


NOTE

REFER TO SHEET C4.00 FOR TYPICAL ROADWAY SECTIONS.

BASIS OF BEARING

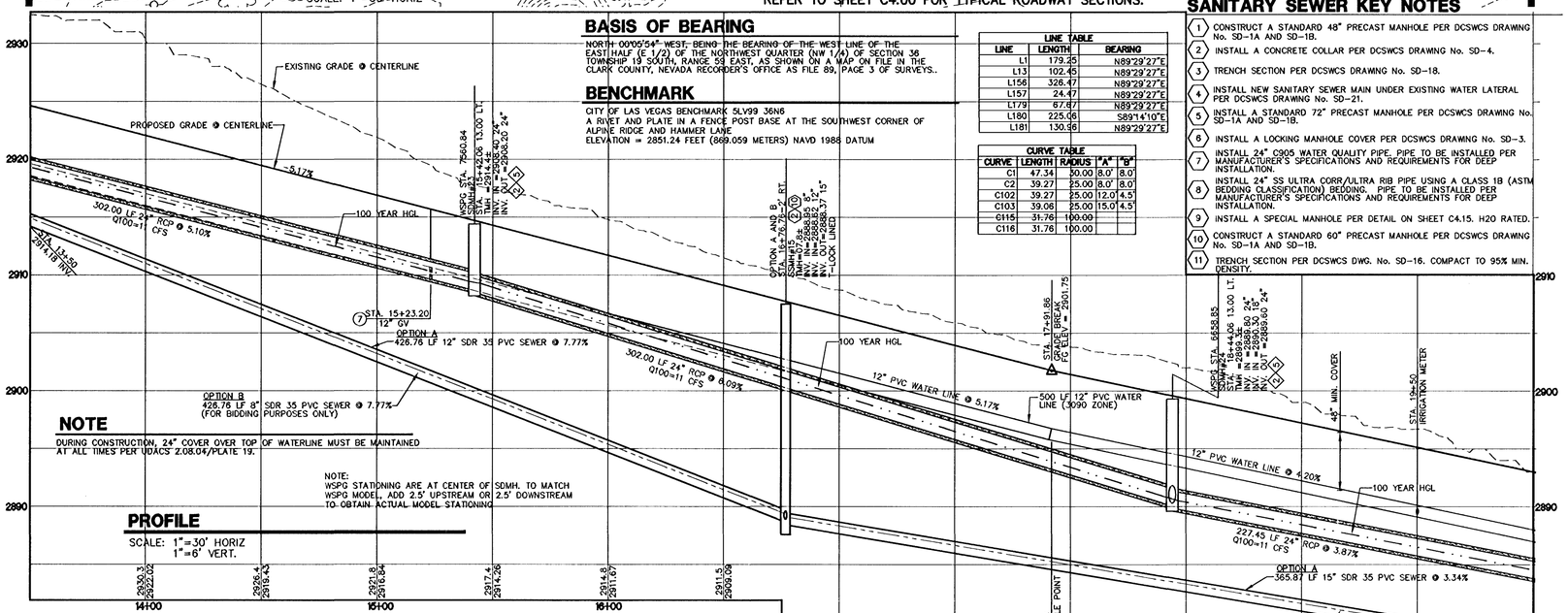
NORTH 00°05'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 36 TOWNSHIP 19 SOUTH, RANGE 59 EAST, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS FILE 89, PAGE 3 OF SURVEYS..

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 5LV99 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2851.24 FEET (869.059 METERS) NAVD 1988 DATUM

LINE TABLE		
LINE	LENGTH	BEARING
L11	179.55	N89°29'27"E
L13	102.45	N89°29'27"E
L156	326.47	N89°29'27"E
L157	24.47	N89°29'27"E
L179	67.87	N89°29'27"E
L180	225.06	S89°14'10"E
L181	130.56	N89°29'27"E

CURVE TABLE				
CURVE	LENGTH	RADIUS	"A"	"B"
C1	47.34	50.00	8.0'	8.0'
C2	39.27	25.00	8.0'	8.0'
C102	39.27	25.00	12.0'	4.5'
C103	39.06	25.00	15.0'	4.5'
C115	31.76	100.00		
C116	31.76	100.00		



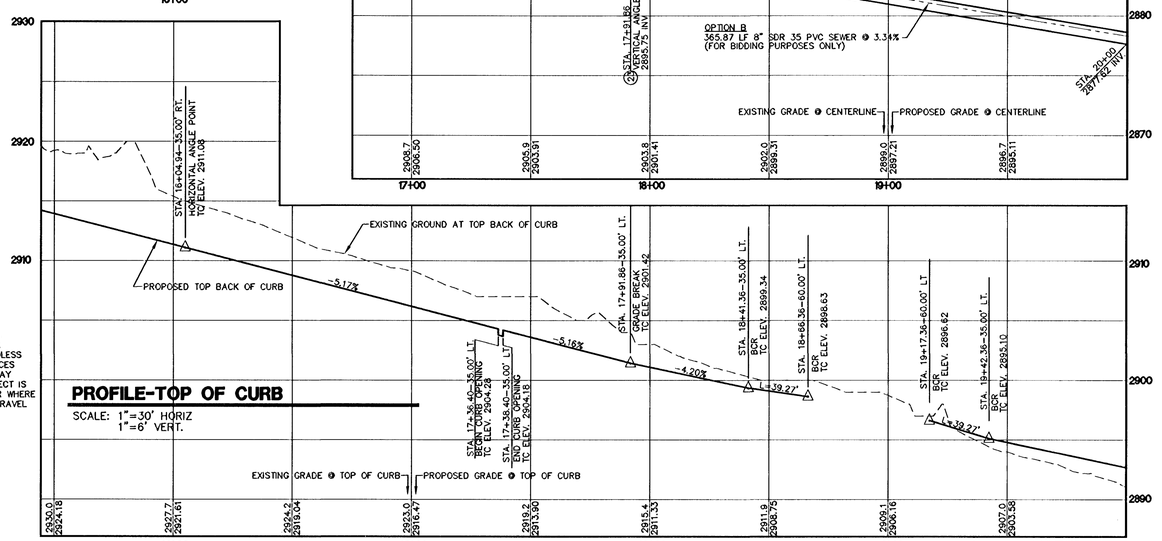
NOTE

DURING CONSTRUCTION, 24" COVER OVER TOP OF WATERLINE MUST BE MAINTAINED AT ALL TIMES PER UDACS 2.08.04/PLATE 19.

NOTE:
WSPG STATIONING ARE AT CENTER OF SDMH. TO MATCH WSPG MODEL, ADD 2.5' UPSTREAM OR 2.5' DOWNSTREAM TO OBTAIN ACTUAL MODEL STATIONING

PROFILE

SCALE: 1"=30' HORIZ
1"=6' VERT.



NOTE

REFER TO SIGNAGE AND STRIPING SHEETS FOR LOCATIONS OF SIGHT VISIBILITY ZONES. EACH CORNER OF EVERY INTERSECTION SHALL HAVE A SIGHT VISIBILITY ZONE REGARDLESS OF RIGHT OF WAY WIDTH. NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

PROFILE-TOP OF CURB

SCALE: 1"=30' HORIZ
1"=6' VERT.

2012-287

CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE "L" CURB AND GUTTER PER C.C.A.U.S.D. NO 216 OVER 8" MIN. TYPE II BASE COMPACTED TO 95% MIN., UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECHNICAL INVESTIGATION.
2. CONSTRUCT TYPE "A" CURB PER DETAIL 1 ON SHEET C6.01.
3. CONSTRUCT 2' CONCRETE VALLEY GUTTER PER DETAIL 2 ON SHEET C6.01.
4. CONSTRUCT 4' CONCRETE VALLEY GUTTER PER DETAIL 3 ON SHEET C6.01.
5. CONSTRUCT CONCRETE SIDEWALK PER C.C.A.U.S.D. NO. 234.
6. CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235 CASE I.
7. CONSTRUCT COMMERCIAL DRIVEWAY PER C.C.A.U.S.D. NO. 225 WITH GEOMETRICS OF C.C.A.U.S.D. 222A.
8. CONSTRUCT HANDICAP AREA PER DETAIL 4 ON SHEET C6.01.
9. CONSTRUCT MODIFIED "L" CURB FROM BCR TO BCR PER DETAIL 11 SHEET C6.01
10. INSTALL 3' FLUME PER DETAIL 5 ON SHEET C6.01.
11. INSTALL 6' FLUME PER DETAIL 6 ON SHEET C6.01.

WATER KEY NOTES

NOT ALL ITEMS ARE USED ON THIS SHEET

1. INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 6" GATE VALVE) PER UDACS. PLATE NO. 40. PROVIDE A MINIMUM 3' CLEARANCE AROUND HYDRANT.
2. SEE GENERAL UTILITY CONSTRUCTION NOTE #16 ON SHEET C5.02.
3. PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN WATER AND SEWER/ STORM DRAIN LINES WITH SEWER/ STORM DRAIN LINES BEING BELOW WATER LINES.
4. INSTALL VEHICULAR PROTECTION BOLLARD PER UDACS. PLATE No. 75. FOUR (4) BOLLARDS PER HYDRANT.
5. INSTALL 8" REDUCED PRESSURE DETECTOR ASSEMBLY ABOVE FG, PER U.D.A.C.S. PLATE No. 56.
6. INSTALL A 2" METER PER UDACS PLATE No. 4 (POTABLE).
7. INSTALL A 12" GATE VALVE PER UDACS PLATE No. 30 AND 39
8. REFER TO LANDSCAPE PLANS FOR CONTINUATION.
9. INSTALL A RPPA PER UDACS PLATE No. 8.
10. CONTRACTOR TO PROVIDE A MINIMUM OF 4.0' OF COVER ABOVE TOP OF TWELVE INCH (12") AND SMALLER PIPE, BASED ON FINISH GRADE FOR ON-SITE WATER-LINES. OFF SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 3.5' (60' R/W), 4.0' (80' R/W) OF COVER BASED ON FINISH GRADE. REFER TO UDACS SECTION 2.08 AND UDACS PLATE NO. 17 FOR ADDITIONAL INFORMATION.
11. REFER TO MECHANICAL/ PLUMBING PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
12. INSTALL A 2" RPPA PER UDACS PLATE No. 8 (POTABLE).
13. INSTALL A 2x4 MANIFOLD.
14. INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE No. 30, 31 AND 39.
15. INSTALL 8"x8" TEE PER UDACS PLATE No. 31.
16. INSTALL 8"x6" TEE WITH 6" GATE VALVE PER UDACS PLATE No. 30, 31 AND 39.
17. INSTALL 8"x90° BEND W/THRUST BLOCK PER UDACS PLATE No. 31.
18. INSTALL 8"x45° BEND W/THRUST BLOCK PER UDACS PLATE No. 31.
19. INSTALL 8"x11.25° BEND W/THRUST BLOCK PER UDACS PLATE No. 31.
20. INSTALL 12"x8" REDUCER W/THRUST BLOCK PER UDACS PLATE No. 30.
21. INSTALL 12"x12" TEE W/THRUST BLOCK PER UDACS PLATE No. 31.
22. INSTALL 12"x22.5° BEND W/THRUST BLOCK PER UDACS PLATE No. 31.
23. DEFLECT PIPE JOINT 1' MAX. VERTICALLY PER UDACS 2.07.01 AND 2.07.02.
24. INSTALL 8" GATE VALVE PER UDACS PLATE No. 30 AND 39.
25. INSTALL 24"x12" TEE PER UDACS PLATE No. 31.
26. INSTALL 12"x8" TEE PER UDACS PLATE No. 31.
27. INSTALL 12" CAP & 2" BLOWOFF PER UDACS PLATE No. 36.
28. TRENCH SECTION PER UDACS PLATE No. 17.
29. INSTALL 24" CAP & 2" BLOWOFF PER UDACS PLATE No. 36.
30. INSTALL 24" RESILIENT WEDGE GATE VALVE PER DETAIL SHEET C6.02.
31. TYPE "K" COPPER WATERLINE PER UDACS PLATE No. 4.
32. INSTALL 24"x22.5° BEND W/RESTRAINED JOINTS.
33. INSTALL 12"x45° BEND W/THRUST BLOCK PER UDACS PLATE No. 31.
34. DEFLECT PIPE JOINT 1' MAX. HORIZONTALLY PER UDACS 2.07.01 AND 2.07.02.

SANITARY SEWER KEY NOTES

1. CONSTRUCT A STANDARD 48" PRECAST MANHOLE PER DCSWCS DRAWING No. SD-1A AND SD-1B.
2. INSTALL A CONCRETE COLLAR PER DCSWCS DRAWING No. SD-4.
3. TRENCH SECTION PER DCSWCS DRAWING No. SD-18.
4. INSTALL NEW SANITARY SEWER MAIN UNDER EXISTING WATER LATERAL PER DCSWCS DRAWING No. SD-21.
5. INSTALL A STANDARD 72" PRECAST MANHOLE PER DCSWCS DRAWING No. SD-1A AND SD-1B.
6. INSTALL A LOCKING MANHOLE COVER PER DCSWCS DRAWING No. SD-3.
7. INSTALL 24" C905 WATER QUALITY PIPE. PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS FOR DEEP INSTALLATION.
8. INSTALL 24" SS ULTRA CORR/ULTRA RIB PIPE USING A CLASS 1B (ASTM BEDDING CLASSIFICATION) BEDDING. PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS FOR DEEP INSTALLATION.
9. INSTALL A SPECIAL MANHOLE PER DETAIL ON SHEET C4.15. H20 RATED.
10. CONSTRUCT A STANDARD 60" PRECAST MANHOLE PER DCSWCS DRAWING No. SD-1A AND SD-1B.
11. TRENCH SECTION PER DCSWCS DWG. No. SD-16. COMPACT TO 95% MIN. DENSITY.

STORM DRAIN KEY NOTES

1. INSTALL A 48" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
2. INSTALL A 60" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
3. INSTALL A 48" TYPE II MANHOLE PER C.C.A.U.S.D. 405.
4. INSTALL A 60" TYPE III MANHOLE PER C.C.A.U.S.D. 406.
5. INSTALL A CONCRETE COLLAR PER C.C.A.U.S.D. 408.
6. INSTALL A 2.5' GRATE WITH A 10' CURB OPENING MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
7. INSTALL A JENSEN PRECAST DI242448 CATCH BASIN.
8. INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
9. INSTALL A 5' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
10. INSTALL A 7.5' GRATE WITH AN 11.25' CURB OPENING MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
11. INSTALL A 7.5' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
12. INSTALL A 10' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
13. INSTALL A 12.5' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
14. INSTALL A 27.5' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
16. INSTALL A 5' MODIFIED TYPE "CM" INLET PER C.C.A.U.S.D. 412A. INLET SHALL INCLUDE A WATER QUALITY STAMP PER C.C.A.U.S.D. 421.
17. INSTALL AN NDOT TYPE 2 INLET PER DWG. NO. R-4.2.1.
18. CAP FOR FUTURE WITH BRICK OR CONCRETE. DO NOT USE WOOD.

ALL STORM DRAIN PIPE SHALL BE CLASS III (MIN.) UNLESS OTHERWISE NOTED.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

BY [signature] 12-12-11

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

APPROVED FOR CONSTRUCTION

[signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 116679 DATE 12/01/11

REVISIONS

REV	DESCRIPTION	DATE	BY

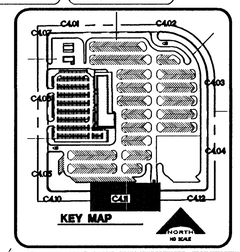
DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
1-800-227-2600
OR
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

Avoid overhead power line contact
Call before you OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

AVOID HITTING UNDERGROUND
TRAFFIC SIGNAL CABLE AND STREET LIGHT CONDUIT WHEN YOU DIG
CALL BEFORE YOU DIG UNDERGROUND
Call before you Underground
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
OR
1-702-229-6011
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



SEAL: PROFESSIONAL ENGINEER-STATE OF NEVADA, VERNON R. HARKINS, EXP 6/30/13, CIVIL, No. 009898, 11/14/11

L. R. NELSON CONSULTING ENGINEERS, INC.
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702.367.6900
1701 Directors Boulevard, Suite 770
Austin, Texas 78744
512.441.8200
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LAS VEGAS
AUSTIN

H41249

CCSD PROJECT NO. 15-49
CCSD REVIEW
APPROVED BY
DATE

DATE OCTOBER 31, 2011
DRAWN BY
CHECKED BY
SUBMITTAL
A/E PROJECT NO. 08-516

PROJECT
CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4170 McLEOD DRIVE
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

DRAWING TITLE
PLAN AND PROFILE-WASHBURN ROAD

SHEET NO.
C4.11
SHEET 40 OF 83

CLV #41249 7/5-183

HTE #11-19927

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