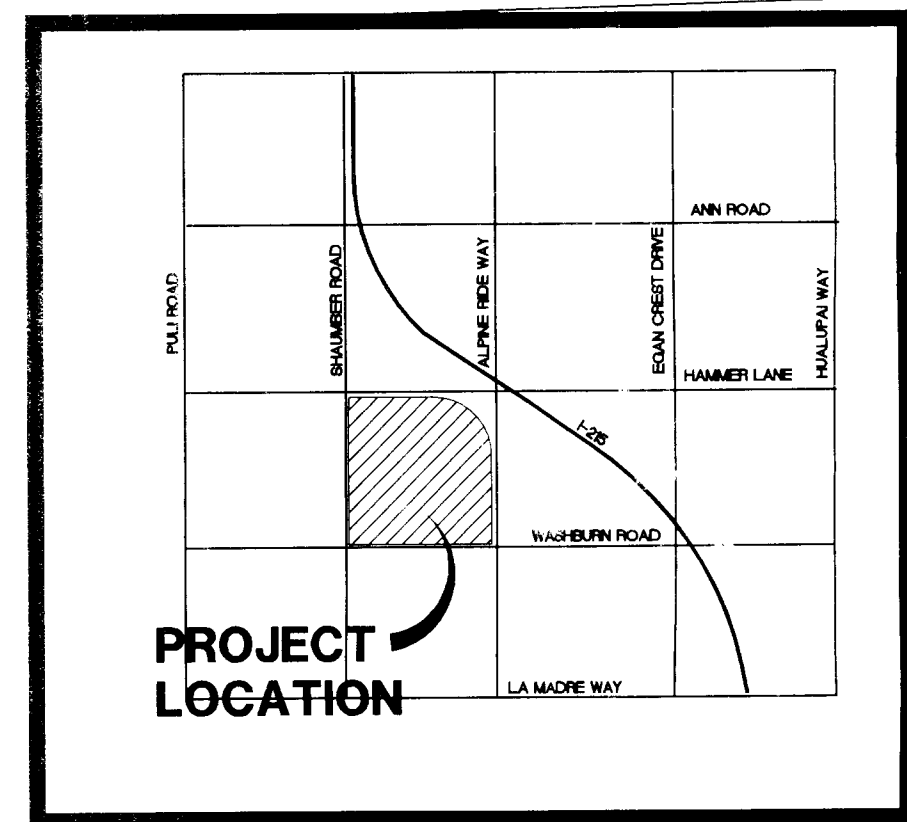


APN #126-36-201-002 (A PORTION OF)



1	01.00	COWER SHEET
2	01.01	GENERAL NOTES
3	01.02	DESIGN NOTES
4	02.01	HORIZONTAL CONTROL PLAN
5	02.02	HORIZONTAL CONTROL PLAN
6	02.03	HORIZONTAL CONTROL PLAN
7	02.04	HORIZONTAL CONTROL PLAN
8	02.05	HORIZONTAL CONTROL PLAN
9	02.06	HORIZONTAL CONTROL PLAN
10	02.07	HORIZONTAL CONTROL PLAN
11	02.08	HORIZONTAL CONTROL PLAN
12	02.09	HORIZONTAL CONTROL PLAN

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| 27 | 03.01 | GENERAL OVERALL SITE PLAN |
| 28 | 03.02 | GRADING PLAN |
| 29 | 03.03 | GRADING PLAN |
| 30 | 03.04 | GRADING PLAN |
| 31 | 03.05 | GRADING PLAN |
| 32 | 03.06 | GRADING PLAN |
| 33 | 03.07 | GRADING PLAN |
| 34 | 03.08 | GRADING PLAN |
| 35 | 03.09 | GRADING PLAN |
| 36 | 03.10 | GRADING PLAN |
| 37 | 04.00 | PLAN AND PROFILE OVERALL KEY WAY |
| 38 | 04.01 | PLAN AND PROFILE-HAMMER LANE |
| 39 | 04.02 | PLAN AND PROFILE-HAMMER LANE |
| 40 | 04.03 | PLAN AND PROFILE-ALPINE RIDGE WAY |
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| 42 | 04.05 | PLAN AND PROFILE-SAWYER ROAD |
| 43 | 04.06 | PLAN AND PROFILE-SAWYER ROAD |
| 44 | 04.07 | PLAN AND PROFILE-SAWYER ROAD |
| 45 | 04.08 | PLAN AND PROFILE-SAWYER ROAD |
| 46 | 04.09 | PLAN AND PROFILE-WESTBURN ROAD |
| 47 | 04.10 | PLAN AND PROFILE-WESTBURN ROAD |
| 48 | 04.11 | PLAN AND PROFILE-WESTBURN ROAD |
| 49 | 04.12 | PLAN AND PROFILE-WESTBURN ROAD |
| 50 | 04.13 | PLAN AND PROFILE-OSTRICH SEWER |
| 51 | 04.14 | PLAN AND PROFILE-OSTRICH SEWER |
| 52 | 04.15 | PLAN AND PROFILE-OSTRICH SEWER |
| 53 | 04.16 | PLAN AND PROFILE-OSTRICH SEWER |
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| 56 | 04.19 | PLAN AND PROFILE-OSTRICH SEWER |
| 57 | 04.20 | PLAN AND PROFILE-OSTRICH SEWER |
| 58 | 04.21 | PLAN AND PROFILE-OSTRICH WATER |
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| 61 | 04.24 | PLAN AND PROFILE-OSTRICH WATER |
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| 66 | 04.29 | PLAN AND PROFILE-OSTRICH WATER |
| 67 | 04.30 | PLAN AND PROFILE-OSTRICH WATER |
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| 69 | 05.02 | TRAFFIC SIGNAL ACCESS PLAN |
| 70 | 05.03 | UTILITY PLAN |
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| 148 | 07.70 | RETAINING WALL PROFILES |
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SOUTHWEST GAS CORPORATION

[illegible]

L. R. NELSON
STRUCTURAL
- CIVIL
- SURVEY
- FOUNDATIONS

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CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN

CCSD NORTHWEST SATELLITE TRANSPORTATION

SPC FILE
COVER STEEL

SHEET NO. C100

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA, NEVADA", LATEST REVISED EDITION, THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE "UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY COVERED OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN ON CIVIL PLANS DISPLAY AT APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON THE PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOT ASSUME RESPONSIBILITY FOR LOCATING ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGES TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND RECORD IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE DURING ALL OFF-SITE IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORILY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THE PLANS AND REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE OF CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM (28 DAYS) AND IS DESIGNED TO BE AFFECTED BY THE CITY ENGINEER, PRIOR TO THE USE OF THE PRODUCT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING PERMITS FOR THIS CONSTRUCTION.

7. FOR ANY PERMITS REQUIRED, MAGNIFY EVERY 100' IN EXTENDED-TYPE CURB.

8. NO PAVING TO BE ONE-HALF INCH (1/2") ABOVE LEVEL OF ALL FUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMP AND CURSE CUTTERS.

9. CURB AND CUTTER PAVING TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH CORNER OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEAR CONSTRUCTION. THE SLOPE OF TRANSITIONS TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SLOTE REPORT AS PREPARED BY THE COMPANY REPORT DATE, AFFECTED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXPORT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DAMAGED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.E.S. STATE NO. 923.586 AND CITY OF LAS VEGAS TITLE 15, APPENDIX D.

15. UTILITY COMPANY WATER BODIES, MANHOLE LIDS, GULLY COVERS, ETC., SHALL BE LOCATED OUT OF HIGHWAYS, DRIVEWAYS AND SIDEWALKS, AND CROSS GUARDS UNLESS PRIOR APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALKWAYS:

16. ALL WALKS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADE, ELEVATIONS, ETC. CONTROL AND SIGHT DISTANCES AT INTERSECTIONS. NEW WALKS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PAVEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.

18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER DEPRESSURES, ETC. TO FINISH GRADE AS AFFEABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE ORDINANCES OF THE CITY OF LAS VEGAS AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREIN.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER DILLS, LOCATING RIBBONS, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFICE INSPECTION AND TESTING CERTIFY THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

21. SANITARY AND STORM DRAIN FINAL LOCATION MAPS SHALL BE PROVIDED TO THE OFFSITE TESTING AND INSPECTION SECTION PRIOR TO PROJECT ACCEPTANCE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND MANHOLE. SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND THE CITY OF LAS VEGAS NEVADA REGIONAL COUNCIL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTainties OF ± 0.1 METER (3.94 FEET). A SEPARATE ELECTRONIC COORDINATE FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. SANITARY SEWER SERVICE LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE SEWER SERVICE LATERAL TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL EXITS THE PUBLIC RIGHT-OF-WAY. THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M (4") MARKER BALL, 100MM OR APPROVED EQUIV.

23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS MUST BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.

24. SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 04/12/10

CLV SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENT OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REFER TO CONSTRUCTION AS PER PLANS. ANY ADDITIONAL DEVIATIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.

3. UNLESS 18" OR 24" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. 20" (MIN.) (18") SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE CURBS. 24" (MIN.) (18") SEWER PIPE (30' FOOT R/W) WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

6. THE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE (12") (18") (24") INCHES. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "S" SHALL BE USED ON LINES TWELVE INCHES (12") AND ABOVE.

7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVMS STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS 18" AT ALL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE (1) INCH PER 100' FROM THE APPROVED CONSTRUCTIONS PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF 6" D-100 DOD PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/12/10

3. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
4. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
5. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
6. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACED WIRE. WHEN EMPTY CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #6 and 1 #8 THW WIRE (THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION).
7. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC. SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
8. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
9. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
10. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
11. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
12. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
13. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COSTS OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHTS AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEF0) AT (702) 229-6331.

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PAVING WORK IS IN PROGRESS, THE CONTRACTOR SHALL BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE V.P. CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1150 ANT-GLASS-TO-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREON, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO ENSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET-UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHTS OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PH 46242) WHICH WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THE OFFICERS SHALL BE SET UP BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER..
15. CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED 04/15/10

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT'S ORDINANCE # 5667, "HYDRANT SPECIFICATIONS", AND "HYDRANT INSTALLATION SPECIFICATION".
2. AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
 - A. KENNEDY - GUARDIAN MODELS K81A AND K81D
 - B. MUELLER - SUPER CENTURION 2500 MODEL A-423
 - C. CLOW - MEDALLION MODEL F-2546/LH
 - D. TROY VALVE - PATRIOT MODEL PT8100 NEVADA HYDRANT
 - E. U.S. PIPE - METROFLOW/M-03
3. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
4. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE # 5667.
5. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE MAINS SHALL BE COMPLETED BEFORE COVERING THE LINES. CALL THE CITY OF LAS VEGAS INSPECTION HOT-LINE AT 229-2071 TO REQUEST AN INSPECTION BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
6. PAINTING OF THE CURBS AND FIRE HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE # 5667, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
7. A PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
8. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
9. PRIOR TO THE FINAL OCCUPANCY, A FLOW TEST MUST BE WITNESSED BY THE CITY OF LAS VEGAS FIRE DEPARTMENT TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.

1. ALL CUL-DE-SACS, DRIVEWAYS, WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED, AND SHALL BE INSTALLED TO AN APPROPRIATE WORKING PRESSURE.
11. FIRE HYDRANTS SPACING SHALL BE:
RESIDENTIAL: 300 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
COMMERCIAL: 300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY. HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
15. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
18. TWO SOURCES OF SUPPLY ARE REQUIRED WHEREVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM SECTION. CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN TWO FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE SEVERED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE SLOPES, GRADIENT SHALL NOT EXCEED 6%.
21. THE TURNING RADIUS FOR THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS.
22. VERTICAL CLEARANCE FOR THE FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES MINUS INCHES.
23. FIRE DEPARTMENT ACCESS SHALL BE MINIMUM IN RESIDENTIAL DEVELOPMENTS (EXCEPT FOR THE APARTMENT BUILDINGS) SHALL BE MINIMUM 36 FEET AND IN COMMERCIAL DEVELOPMENTS SHALL BE 36 FEET FROM THE FLOW LINE (THIS MINIMUM MAY BE REDUCED TO 24 FEET, IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR NON-RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET. PRIVATE DRIVEWAYS, ALLEYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FEET WIDE ELONG THE FLOW LINE WHEN SERVING NO MORE THAN 6 RESIDENCES, AND WHEN ON STREET PARKING IS ALLOWED.

1. IN THE EVENT THAT ANY UNFORSSEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING DRAINAGE OPERATIONS, THE OWNER/ENGINEER SHALL, BY IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THE PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND DRAINAGE SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR COLLAPSE OF THE EXCAVATION.
4. THE CONTRACTOR IS AWARE THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL VERIFY TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED.

	<u>HORIZONTAL</u>	<u>VERTICAL</u>	<u>COMPACTION</u>
A. PAVEMENT AREA SUBGRADE	0.1"	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5"	+0.1 TO -0.1'	SEE SOILS REPORT
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003C 1750E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE 'X'. A ZONE 'X' IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

1. NONE

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 = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM

NORTH 00°05'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (MW 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

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PROJ # DATE

CLARK COUNTY WATER RECLAMATION DISTRICT 2/7/11 DATE

CCWRD PROJECT CONTROL NUMBER IS XXXXX
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR
OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION
DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.
THE APPROVAL OF THESE DRAWINGS DOES NOT GUARANTEE CAPACITY IN THE
DISTRICTS COLLECTION OR TREATMENT SYSTEM.

BY: _____ DATE: _____

APPROVAL OF THESE PLANS 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. FIRE FLOW GPM AT xxxx @ 20 P.S.I. RESIDUAL

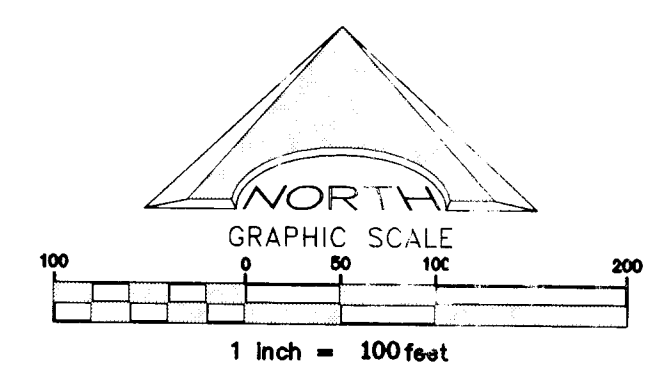
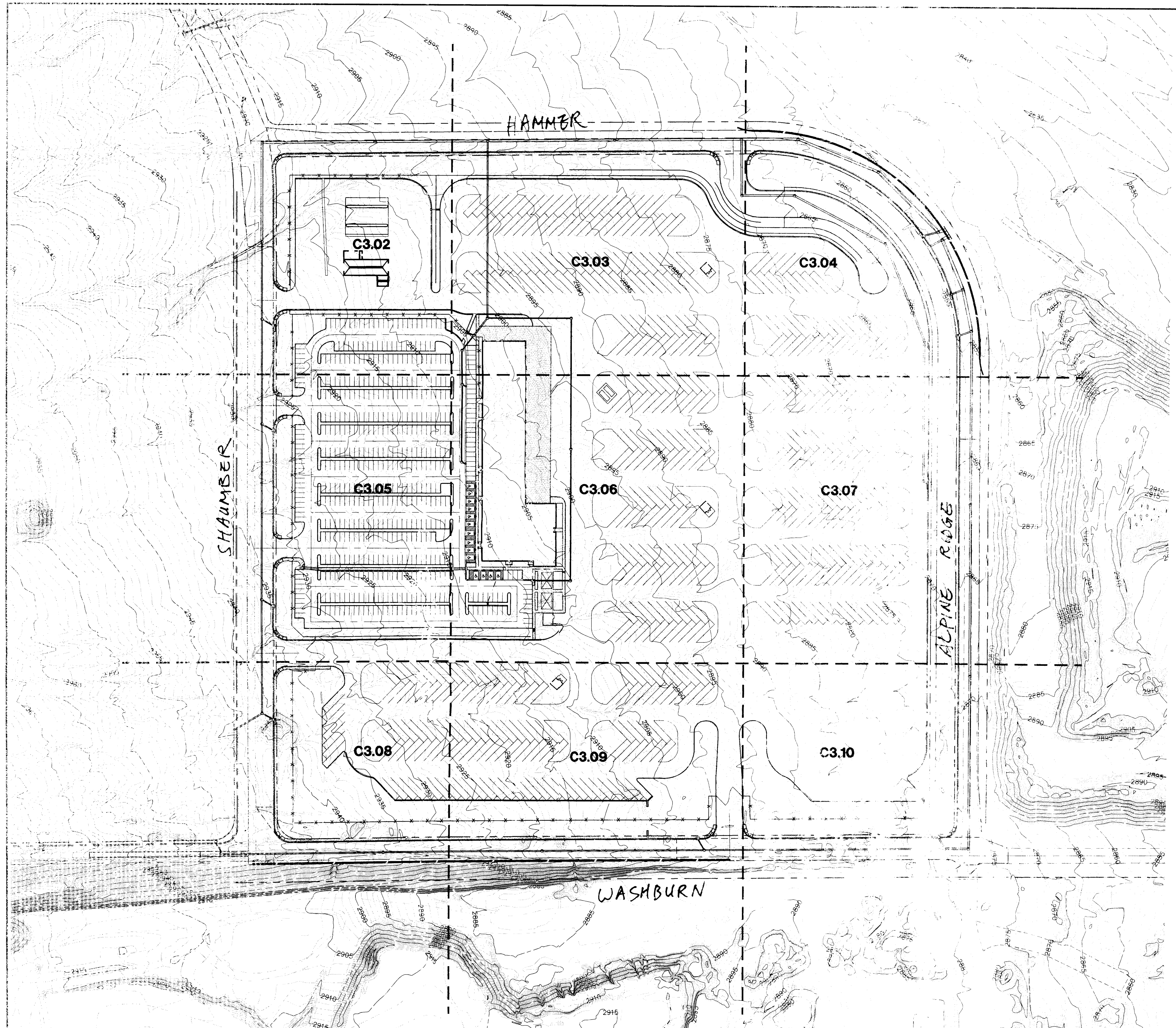
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	NEW YORK 100 1547 2005 PACE APPROVED BY SPECIAL AGENT	RECEIVED 24 OCT 1918 DIVISION OF INVESTIGATION DEPT. OF JUSTICE 100-845
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L. R. NELSON
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STRUCTURAL
STEEL
SURVEY
PLANNING
6765 West Russell Road, Suite 200
Los Angeles, Nevada
80111
(702) 438-2200
(702) 438-2206 FAX

11TH DISTRICT
PORTATION
LAS VEGAS, NEVADA 89103

 ARCHITECTURE 3025 West Middle Drive, Third Floor Las Vegas, Nevada 89126 702.357.6500 LAS VEGAS	1701 Directors Boulevard, Suite 770 Austin, Texas 73244 512.441.8400 www.kcaarchitecture.com	AUSTIN
	CLARK COUNTY SCHOOL DESIGN MANAGEMENT / PLANNING AND DESIGN 1701 DIRECTORS BOULEVARD AUSTIN, TEXAS 73244 512.441.8400	
SHEET NO. 01 of 04 CLV# PTE#		



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 C-199-36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (899.09 METERS) NAVD 1988 DATUM

REVISIONS		
REV.	DESCRIPTION	DATE

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.

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Call before you Underground
Avoid underground utilities. Call before you underground. 1-800-227-2519

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4770 BOLLARD DRIVE
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

GENERAL OVERALL SITE PLAN

L. R. NELSON CONSULTING ENGINEERS, INC.
655 West Russell Road, Suite 200
Las Vegas, NV 89106
(702) 798-3900
(702) 431-2744 FAX

STRUCTURAL
DESIGN
SURVEY
PLANNING

APPROVED BY:
DATE:

KGA ARCHITECTURE
4075 West Delta Drive, Suite 770
Las Vegas, NV 89148
(702) 367-6500
www.kgaarchitecture.com

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4770 BOLLARD DRIVE
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

GENERAL OVERALL SITE PLAN

SHEET NO. C3.01
SHEET 13 OF 17

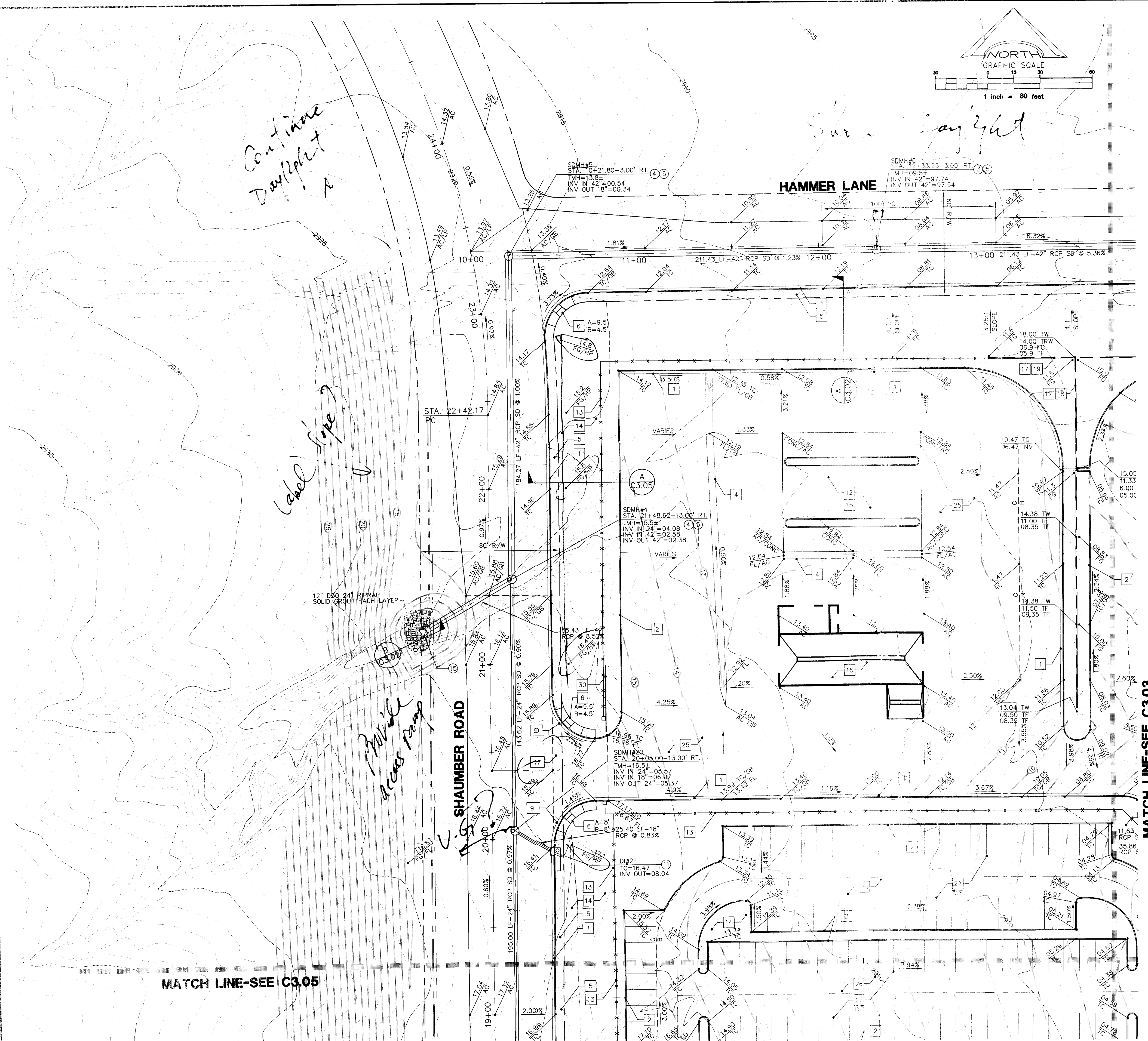
DATE:
DATE:

NOTE:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32400C151, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ONE X A ZONE. THE SITE IS DESCRIBED AS AREAS OUTSIDE OF THE 1% ANNUAL FLOOD FLOODPLAIN.

I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUD FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER

VERNON R. HARKINS E. No. 9898 DATE

45' #4/11
2/7/11 1/24/11
Rejected



CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE 'L' CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" 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. 222.
8. CONSTRUCT MODIFIED 'L' CURB PER DETAIL 11 SHEET C6.01 FROM BCR TO BCR.
9. CONSTRUCT 8' CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228.
10. INSTALL 3' FLUME PER DETAIL 5 ON SHEET C6.01.
11. INSTALL 6' FLUME PER DETAIL 6 ON SHEET C6.01.
12. INSTALL ON-SITE CONCRETE APRON PER DETAIL 7 ON SHEET C6.01.
13. CHAIN LINK FENCE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
14. LANDSCAPE AREA, REFER TO LANDSCAPE ARCHITECTURAL PLANS.
15. FUELING AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
16. BUS WASH AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
17. REFER TO SHEET C7.01 AND C7.02 FOR RETAINING WALL STRUCTURAL SECTION AND NOTES.
18. WALL 'A' PROFILE, REFER TO SHEET C7.03.
19. WALL 'B' PROFILE, REFER TO SHEET C7.03.
20. WALL 'B3' PROFILE, REFER TO SHEET C7.03.
21. WALL 'C1' PROFILE, REFER TO SHEET C7.06 AND C7.07.
22. WALL 'D' PROFILE, REFER TO SHEET C7.08.
23. CONSTRUCT ELECTRICAL AREA PER ARCHITECTURAL PLANS AND SITE ELECTRICAL PLANS.
24. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. NO. 236.
25. INSTALL HEAVY DUTY AC PER DETAIL 8 ON SHEET C6.01.
26. INSTALL LIGHT DUTY AC PER DETAIL 9 ON SHEET C6.01.
27. INSTALL 4" WIDE WHITE PARKING LOT STRIPE.
28. CONSTRUCT BUILDING PAD PER DETAIL 10 ON SHEET C6.01. FOR ADDITIONAL INFORMATION REFER TO PROJECT GEOTECHNICAL REPORT.
29. INSTALL PRECAST CONCRETE BUMPER BLOCK PER C.C.A.U.S.D. NO. 235.
30. ENTRANCE GATE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
31. CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235, CASE II.
32. CONSTRUCT DETECTABLE WARNING STRIP PER C.C.A.U.S.D. NO. 235.
33. CONSTRUCT HANDICAP AREA PER DETAIL 11 ON SHEET C6.01.
34. TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.

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 II 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 10' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 7. INSTALL A JENSEN PRECAST DI242448 CATCH BASIN.
 8. INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
 9. INSTALL A 10.75' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 10. INSTALL A 11.25' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 11. INSTALL A 13.75' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 12. INSTALL A 15.25' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 13. INSTALL A 19' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
 14. INSTALL A 4' TYPE 'A' INLET PER C.C.A.U.S.D. 411.
 15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
 16. INSTALL A 5.5' MODIFIED TYPE 'C' INLET PER C.C.A.U.S.D. 412A.
- ALL STORM DRAIN PIPE SHALL BE CLASS III (MIN.) UNLESS OTHERWISE NOTED.

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 SLV99 3606
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

NOTE:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 3200301750 E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE 'X'. A ZONE 'X' IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER
VERNON R. HARKINS P.E. No. 9898 DATE

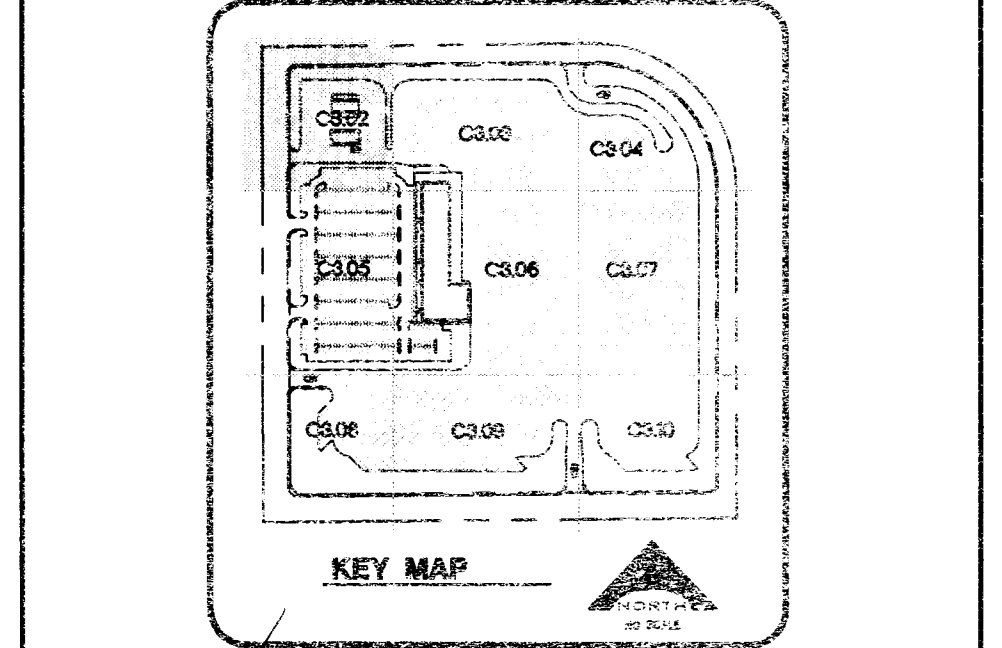
REVISIONS			
REV	DESCRIPTION	DATE	BY

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.

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CLARK COUNTY PUBLIC UTILITIES DEPARTMENT

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NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



VERNON R. HARKINS
P.E. No. 9898
CIVIL
NO. 008698

DESIGNED BY
CHECKED BY
APPROVED BY
DATE: DECEMBER 21, 2010
PROJECT NO. 08-816

L. R. NELSON CONSULTING ENGINEERS, INC.
6705 West Russell Road, Suite 200
Las Vegas, NV 89118
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(702) 451-2246

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SURVEY
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KGA ARCHITECTURE
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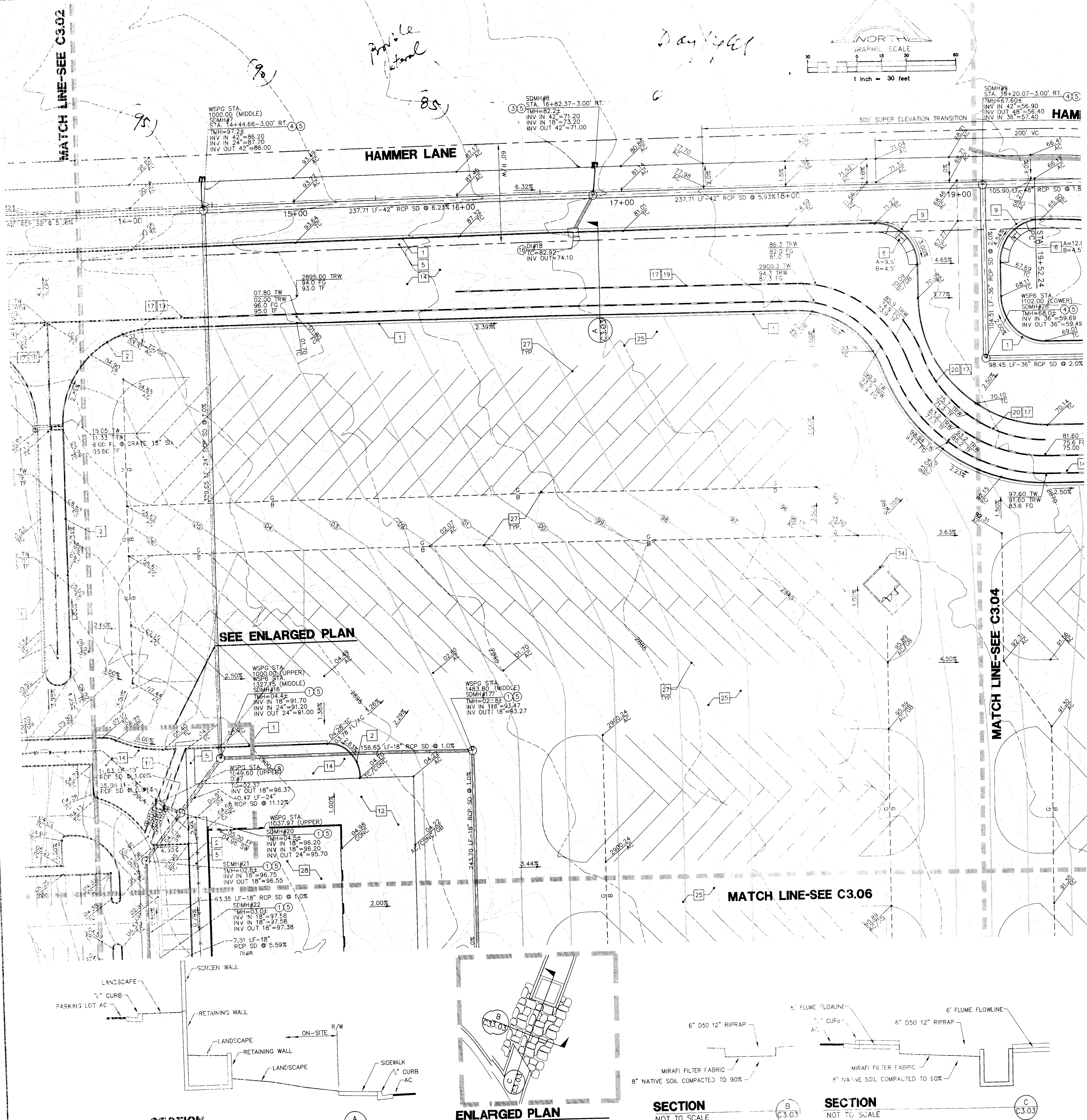
CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

GRADING PLAN

SHEET NO. **C3.02**
SHEET 17 OF 71

CLV#
HTE#



CONSTRUCTION KEY NOTES

- 1. CONSTRUCT TYPE '1' CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 1" 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 MODIFIED "L" CURB PER DETAIL 11 SHEET C6.01 FROM BCR TO EGR.
- 9. CONSTRUCT 8" CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228.
- 10. INSTALL 3" FLUME PER DETAIL 5 ON SHEET C6.01.
- 11. INSTALL 6" FLUME PER DETAIL 6 ON SHEET C6.01.
- 12. INSTALL ON-SITE CONCRETE APRON PER DETAIL 7 ON SHEET C6.01.
- 13. CHAIN LINK FENCE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
- 14. LANDSCAPE AREA, REFER TO LANDSCAPE ARCHITECTURAL PLANS.
- 15. FUELING AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
- 16. BUS WASH AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
- 17. REFER TO SHEET C7.01 AND C7.02 FOR RETAINING WALL STRUCTURAL SECTION AND NOTES.
- 18. WALL "A" PROFILE, REFER TO SHEET C7.03.
- 19. WALL "B" PROFILE, REFER TO SHEET C7.03.
- 20. WALL "B3" PROFILE, REFER TO SHEET C7.03.
- 21. WALL "C1" PROFILE, REFER TO SHEET C7.06 AND C7.07.
- 22. WALL "D" PROFILE, REFER TO SHEET C7.08.
- 23. CONSTRUCT ELECTRICAL AREA PER ARCHITECTURAL PLANS AND SITE ELECTRICAL PLANS.
- 24. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. NO. 236.
- 25. INSTALL HEAVY DUTY AC PER DETAIL 8 ON SHEET C6.01.
- 26. INSTALL LIGHT DUTY AC PER DETAIL 9 ON SHEET C6.01.
- 27. INSTALL 4" WIDE WHITE PARKING LOT STRIPE.
- 28. CONSTRUCT BUILDING PAD PER DETAIL 10 ON SHEET C6.01. FOR ADDITIONAL INFORMATION REFER TO PROJECT GEOTECHNICAL REPORT.
- 29. INSTALL PRECAST CONCRETE BUMPER BLOCK PER C.C.A.U.S.D. NO. 235.
- 30. ENTRANCE GATE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- 31. CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235, CASE II.
- 32. CONSTRUCT DETECTABLE WARNING STRIP PER C.C.A.U.S.D. NO. 235.
- 33. CONSTRUCT HANDICAP AREA PER DETAIL 1 ON SHEET C6.01.
- 34. TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.

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 10' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
- 7. INSTALL A JENSEN PRECAST D1242448 CATCH BASIN.
- 8. INSTALL A JENSEN PRECAST D1484872 CATCH BASIN.
- 9. INSTALL A 10.75' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
- 10. INSTALL A 11.25' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
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- 15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
- 16. INSTALL A 5.5' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.

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 39N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM

NOTE: ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003C1750 E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE "X". A ZONE "X" IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

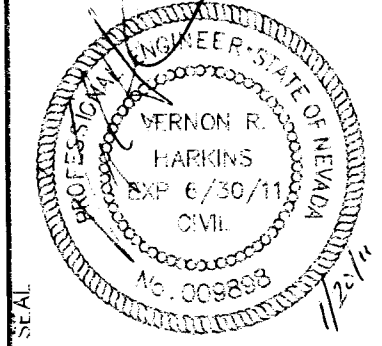
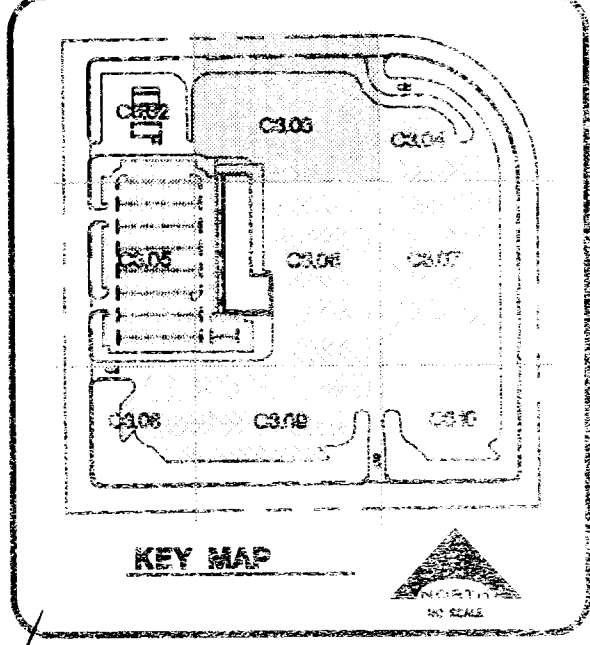
I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER

VERNON R. HARKINS P.E. NO. 9898 DATE

DISCLAIMER NOTE

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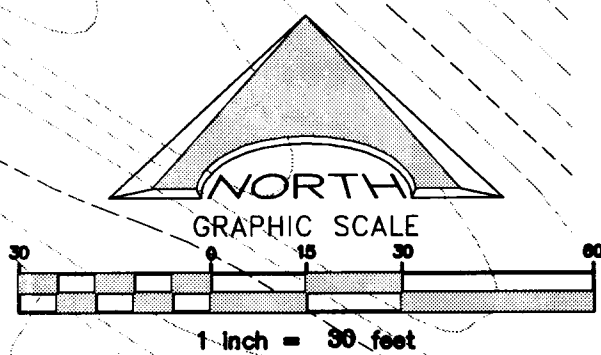
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CLARK COUNTY SCHOOL DISTRICT
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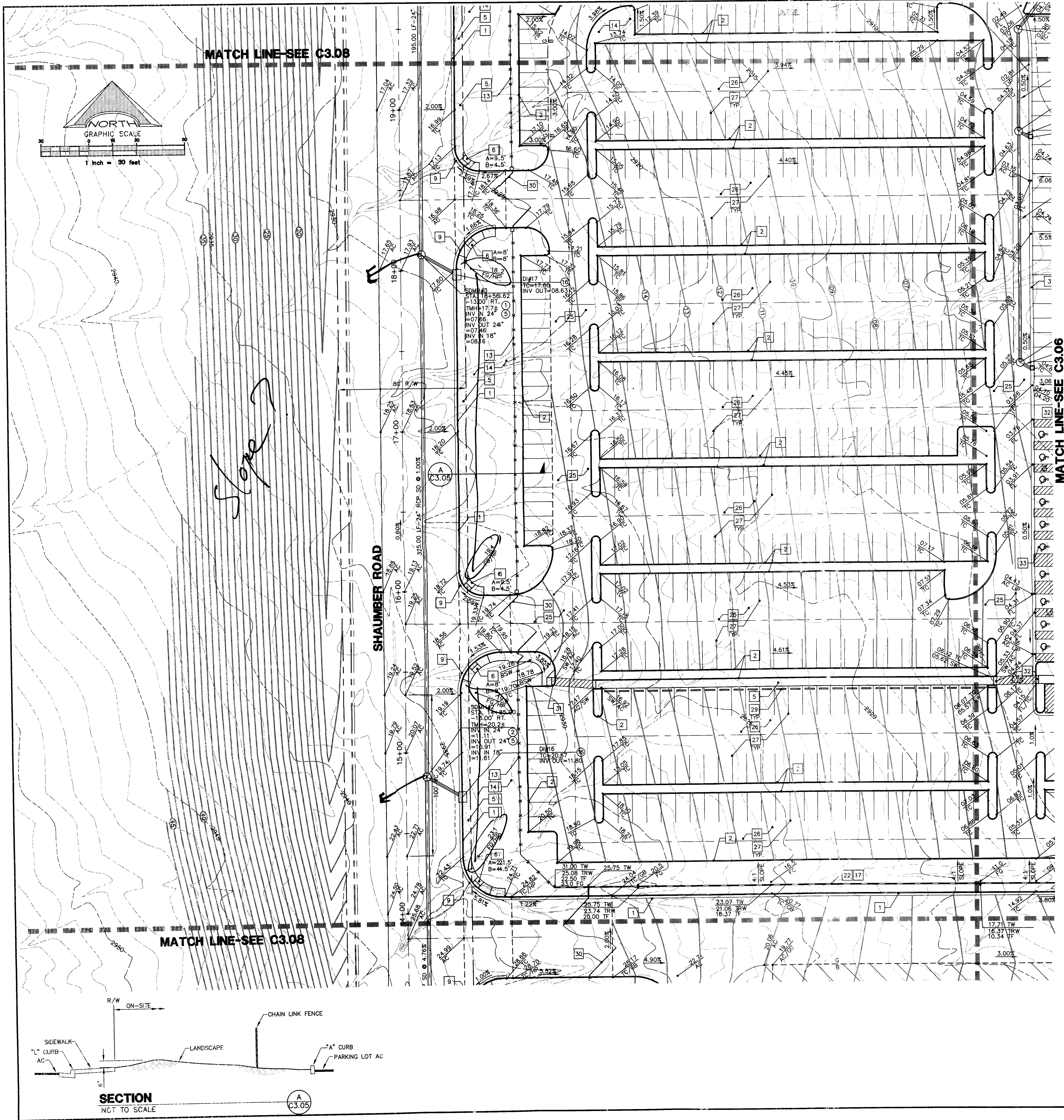
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
DESIGN AND CONSTRUCTION

GRADING PLAN

SHEET NO. C3.03
SHEET 15 OF 71



CLV#
HTE#



CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE 'L' CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" 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 MODIFIED "L" CURB PER DETAIL 11 SHEET C6.01 FROM BCR TO BCR.
9. CONSTRUCT 8" CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228
10. INSTALL 3" FLUME PER DETAIL 5 ON SHEET C6.01.
11. INSTALL 6" FLUME PER DETAIL 6 ON SHEET C6.01.
12. INSTALL ON-SITE CONCRETE APRON PER DETAIL 7 ON SHEET C6.01.
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14. LANDSCAPE AREA, REFER TO LANDSCAPE ARCHITECTURAL PLANS.
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16. BUS WASH AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
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33. CONSTRUCT HANDICAP AREA PER DETAIL 11 ON SHEET C6.01.
34. TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.

STORM DRAIN KEY NOTES

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 2. INSTALL A 60" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
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 6. INSTALL A 10' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
 7. INSTALL A JENSEN PRECAST D124248 CATCH BASIN.
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BASIS OF BEARING

NORTH 0°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 SLV99 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

This grading plan is a
part of drainage study
4511 which was received
on 1/24/11 and rejected on
2/7/11. Page 8 of 26

NOTE:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003G1750 E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE "X". A ZONE "X" IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER

VERNON R. HARKINS F.E. No. 9898 DATE

REVISIONS

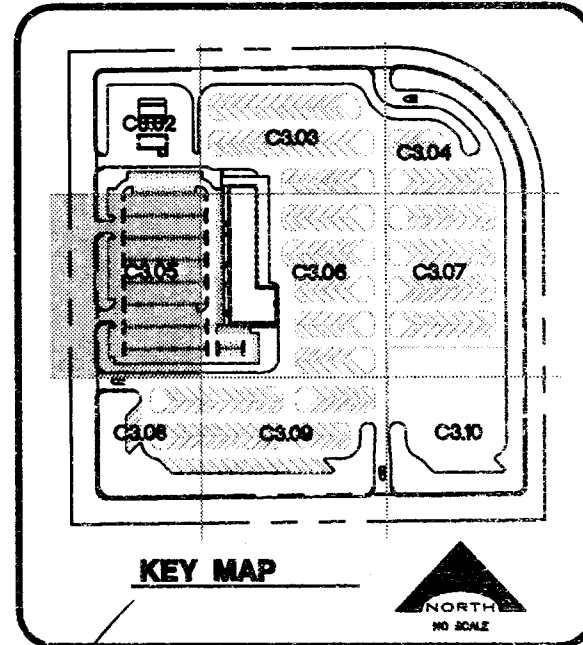
REV	DESCRIPTION	DATE	BY

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1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



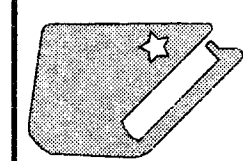
CCSD PROJECT NO. 1549	CCSD REVIEW	APPROVED BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
VERNON R. HARKINS	EXP 6/30/11	CIVIL	No. 008899	11/11	11/11	11/11	11/11	11/11	11/11

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CCSD NORTHWEST SATELLITE TRANSPORTATION
FACILITY
GRADING PLAN

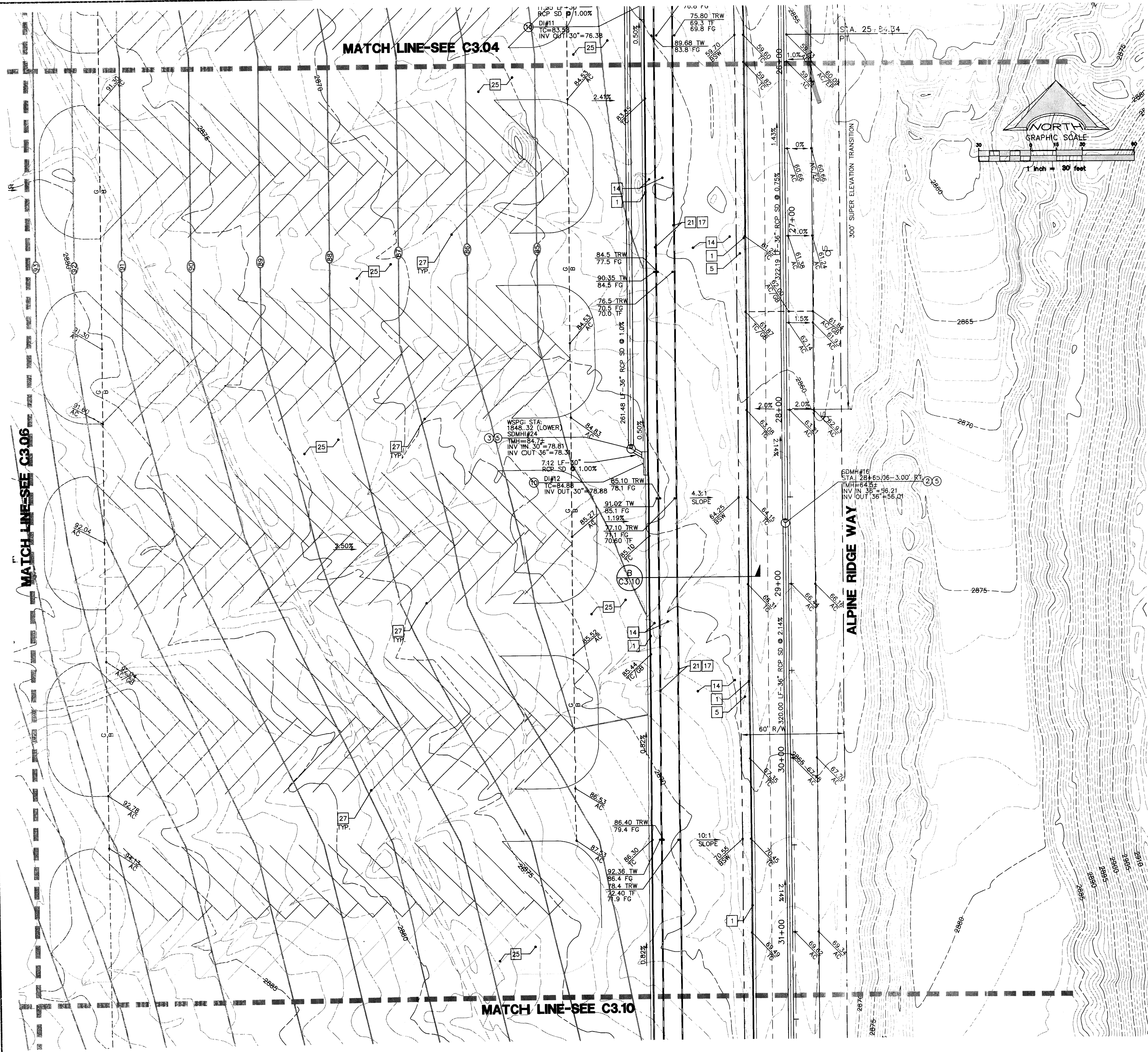


SHEET NO. C3.05
SHEET 20 OF 71

CLV#

HTE#

CLV#	
HTE#	



CONSTRUCTION KEY NOTES

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9. CONSTRUCT 8" CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228
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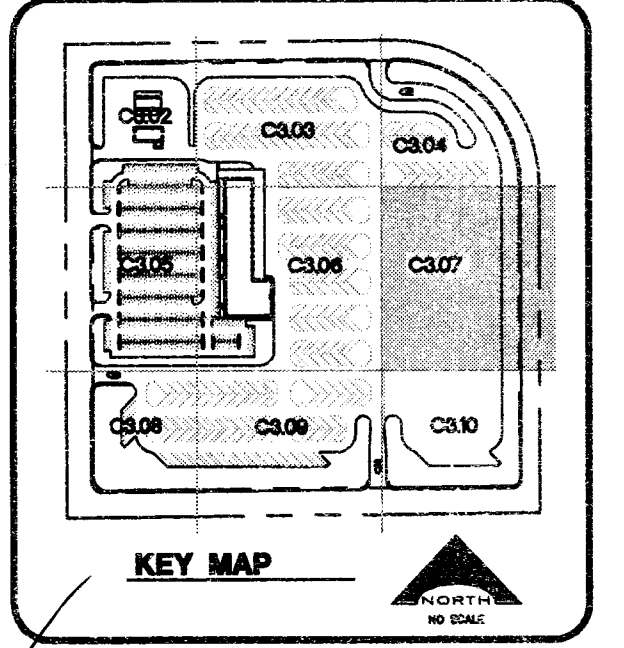
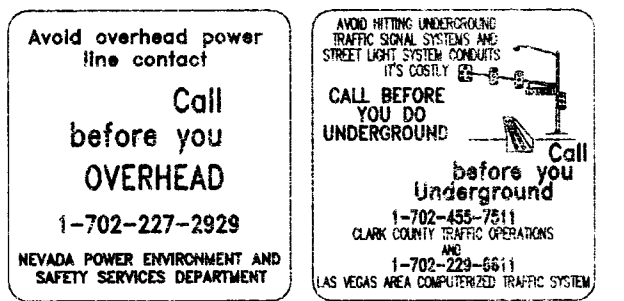
BENCHMARK

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
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REVISIONS			
REV	DESCRIPTION	DATE	BY

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	CSSD PROJECT NO.	DATE	CHECKED BY	DATE	DATE
	1549	1549	1549	1549	1549

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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
PROJECT
DRAWING TITLE
GRADING PLAN

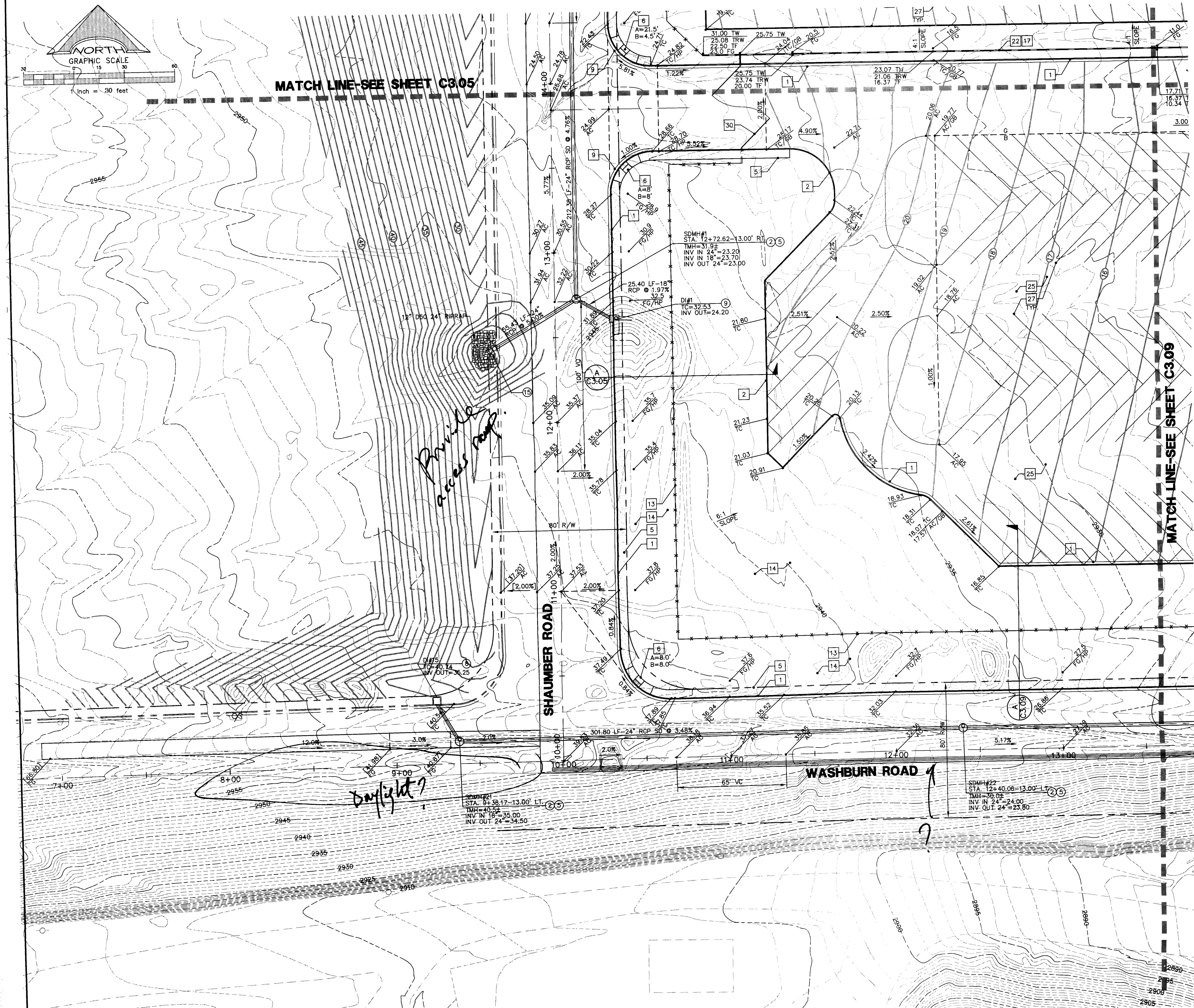
C3.07
SHEET 22 OF 71

This grading plan is part of drainage study # 4511 which was received on 1/24/11 and rejected 2/7/11. Page 10 of 10

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I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER

VERNON R. HARKINS P.E. No. 9898 DATE



CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE '1' CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" MIN. TYPE II BASE COMPACTED TO 95% MIN., UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECHNICAL INVESTIGATION.
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9. CONSTRUCT 8" CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228
10. INSTALL 3" FLUME PER DETAIL 5 ON SHEET C6.01.
11. INSTALL 6" FLUME PER DETAIL 6 ON SHEET C6.01.
12. INSTALL ON-SITE CONCRETE APRON PER DETAIL 7 ON SHEET C6.01.
13. CHAIN LINK FENCE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
14. LANDSCAPE AREA, REFER TO LANDSCAPE ARCHITECTURAL PLANS.
15. FUELING AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
16. BUS WASH AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
17. REFER TO SHEET C7.01 AND C7.02 FOR RETAINING WALL STRUCTURAL SECTION AND NOTES.
18. WALL "A" PROFILE, REFER TO SHEET C7.03.
19. WALL "B" PROFILE, REFER TO SHEET C7.03.
20. WALL "B3" PROFILE, REFER TO SHEET C7.03.
21. WALL "C1" PROFILE, REFER TO SHEET C7.06 AND C7.07.
22. WALL "D" PROFILE, REFER TO SHEET C7.08.
23. CONSTRUCT ELECTRICAL AREA PER ARCHITECTURAL PLANS AND SITE ELECTRICAL PLANS.
24. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. NO. 236.
25. INSTALL HEAVY DUTY AC PER DETAIL 8 ON SHEET C6.01.
26. INSTALL LIGHT DUTY AC PER DETAIL 9 ON SHEET C6.01.
27. INSTALL 4" WIDE WHITE PARKING LOT STRIPE.
28. CONSTRUCT BUILDING PAD PER DETAIL 10 ON SHEET C6.01. FOR ADDITIONAL INFORMATION REFER TO PROJECT GEOTECHNICAL REPORT.
29. INSTALL PRECAST CONCRETE BUMPER BLOCK PER C.C.A.U.S.D. NO. 235.
30. ENTRANCE GATE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
31. CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235, CASE II.
32. CONSTRUCT DETECTABLE WARNING STRIP PER C.C.A.U.S.D. NO. 235.
33. CONSTRUCT HANDICAP AREA PER DETAIL 11 ON SHEET C6.01.
34. TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.

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 10" MODIFIED-TYPE "C" INLET PER C.C.A.U.S.D. 412A.
7. INSTALL A JENSEN PRECAST D1242448 CATCH BASIN.
8. INSTALL A JENSEN PRECAST D1484972 CATCH BASIN.
9. INSTALL A 10.75" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
10. INSTALL A 11.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
11. INSTALL A 13.75" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
12. INSTALL A 15.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
13. INSTALL A 19" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
14. INSTALL A 4" TYPE "A" INLET PER C.C.A.U.S.D. 411.
15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
16. INSTALL A 5.5" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A UNLESS OTHERWISE NOTED.

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 = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

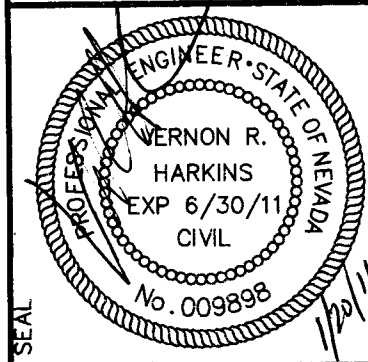
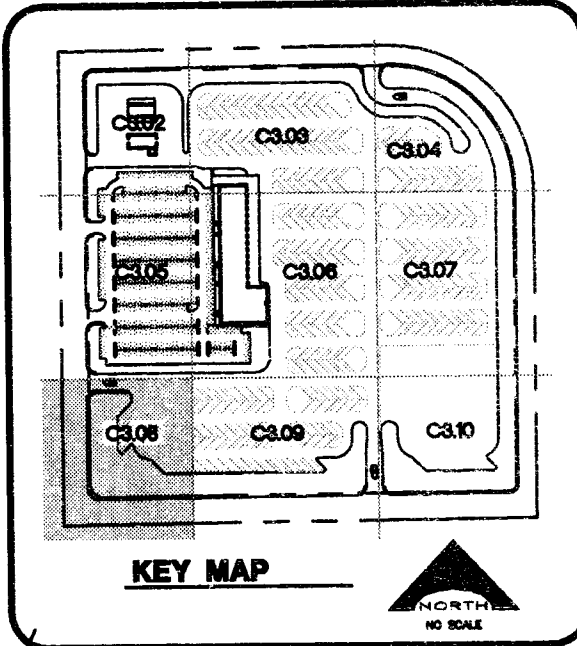
REVISIONS			
REV	DESCRIPTION	DATE	BY

DISCLAIMER NOTE

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CCSD PROJECT NO. 1549	DATE DECEMBER 21, 2010
CCSD REVIEW	DRAWN BY
APPROVED BY	CHECKED BY
SUBMITTAL	DATE
PROJECT NO.	08-2616

L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Flamingo Avenue, Suite 100
Las Vegas, NV 89121
(702) 798-7978
(702) 451-2296 FAX

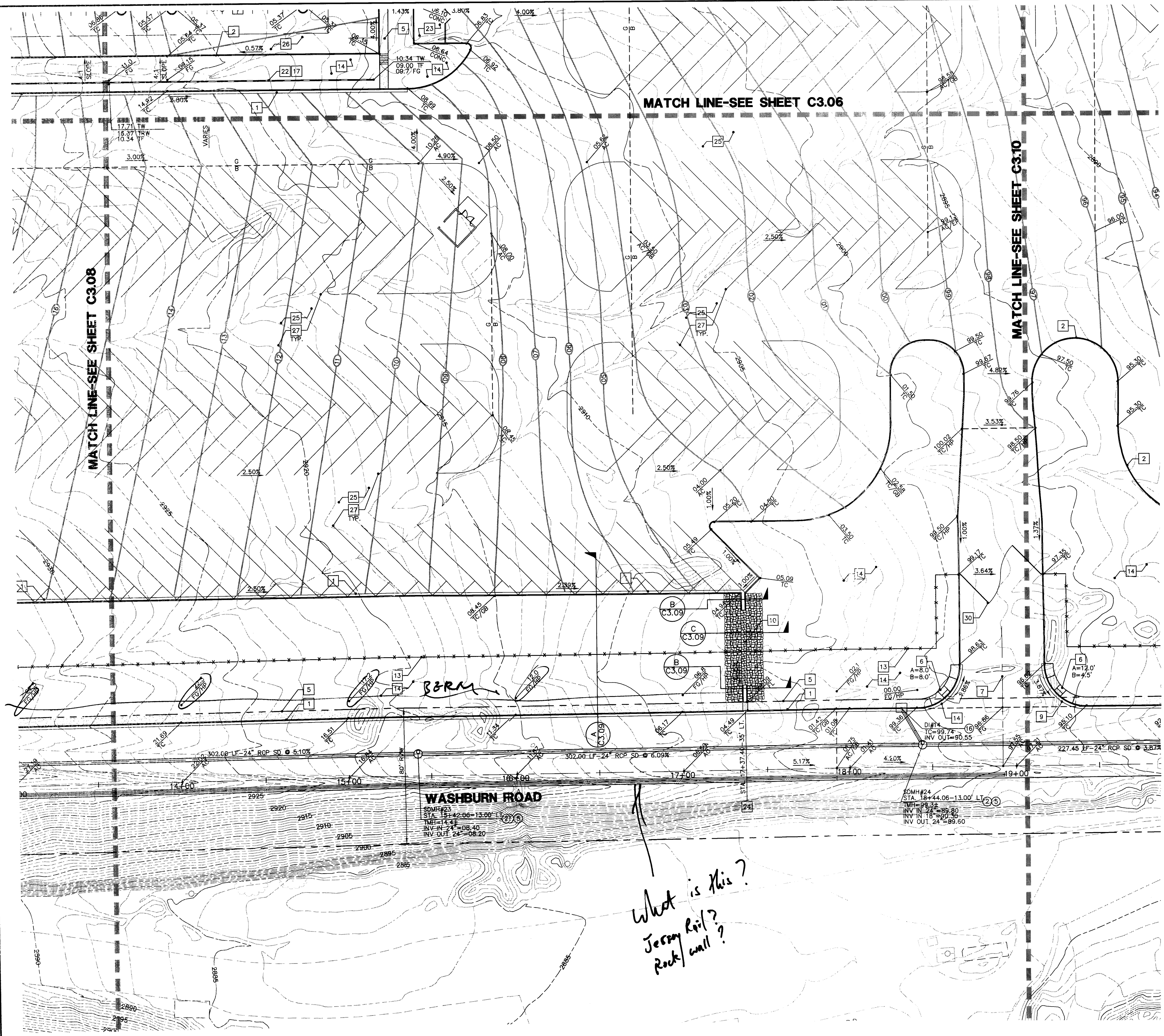
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www.KGAarchitecture.com
LAS VEGAS, NV 89148

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4170 McLEDD DRIVE
LAS VEGAS, NEVADA 89121
PROJECT
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
DRAWING TITLE
GRADING PLAN
SHEET NO.
C3.08
SHEET 23 OF 71
CLV#
HTE#

NOTE:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 32003C1750 E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE "X". A ZONE "X" IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER
VERNON R. HARKINS P.E. No. 9898 DATE

This grading plan is a part of drainage study # 4511 which was received on 1/24/11 and rejected on 1/27/11. Page 11 of 26



CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE "L" CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" 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 MODIFIED "L" CURB PER DETAIL 11 SHEET C6.01 FROM BCR TO BCR.
9. CONSTRUCT 8" CONCRETE CROSS GUTTER PER C.C.A.U.S.D. NO. 228.
10. INSTALL 3" FLUME PER DETAIL 5 ON SHEET C6.01.
11. INSTALL 6" FLUME PER DETAIL 6 ON SHEET C6.01.
12. INSTALL ON-SITE CONCRETE APRON PER DETAIL 7 ON SHEET C6.01.
13. CHAIN LINK FENCE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
14. LANDSCAPE AREA, REFER TO LANDSCAPE ARCHITECTURAL PLANS.
15. FUELING AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
16. BUS WASH AREA, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.
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18. WALL "A" PROFILE, REFER TO SHEET C7.03.
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30. ENTRANCE GATE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
31. CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235, CASE II.
32. CONSTRUCT DETECTABLE WARNING STRIP PER C.C.A.U.S.D. NO. 235.
33. CONSTRUCT HANDICAP AREA PER DETAIL 11 ON SHEET C6.01.
34. TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ADDITIONAL INFORMATION.

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 10' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
7. INSTALL A JENSEN PRECAST D1242448 CATCH BASIN.
8. INSTALL A JENSEN PRECAST D1484872 CATCH BASIN.
9. INSTALL A 10.75' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
10. INSTALL A 11.25' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
11. INSTALL A 13.75' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
12. INSTALL A 15.25' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
13. INSTALL A 19' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
14. INSTALL A 4' TYPE "A" INLET PER C.C.A.U.S.D. 411.
15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
16. INSTALL A 5.5' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.

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

BASIS OF BEARING

NORTH 0°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 5LV99-1016.
A RIVET AND PLATE IN A FENCE POST BASED AT THE CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (889.059 METERS) NAVD 1988 DATUM

NOTE:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 3200301750 E, REVISED SEPTEMBER 27, 2002 THE SITE IS LOCATED WITHIN A ZONE "X". A ZONE "X" IS DESCRIBED AS AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

I CERTIFY THAT THIS GRADING CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS PER

VERNON R. HARKINS P.E. No. 9898 DATE

REVISIONS			
REV	DESCRIPTION	DATE	BY

DISCLAIMER NOTE

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KEY MAP

SEAL

VERNON R. HARKINS
EXP 6/30/11
CIVIL
No. 003859

CCSD PROJECT NO. 1549
CCSD REVIEW
APPROVED BY
DATE
DATE
DRAWN BY
CHECKED BY
SUBMITTAL
PRE-BID SUBMITTAL
A/E PROJECT NO. 08-816

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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
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PROJECT
CLV#
HTE#

SHEET NO. **C3.09**
SHEET 24 OF 71

GRADING PLAN

SEE C4.07 FOR CONTINUATION

SEE C4.06 FOR CONTINUATION

HAMMER LANE-STA. 10+00 TO STA. 16+50

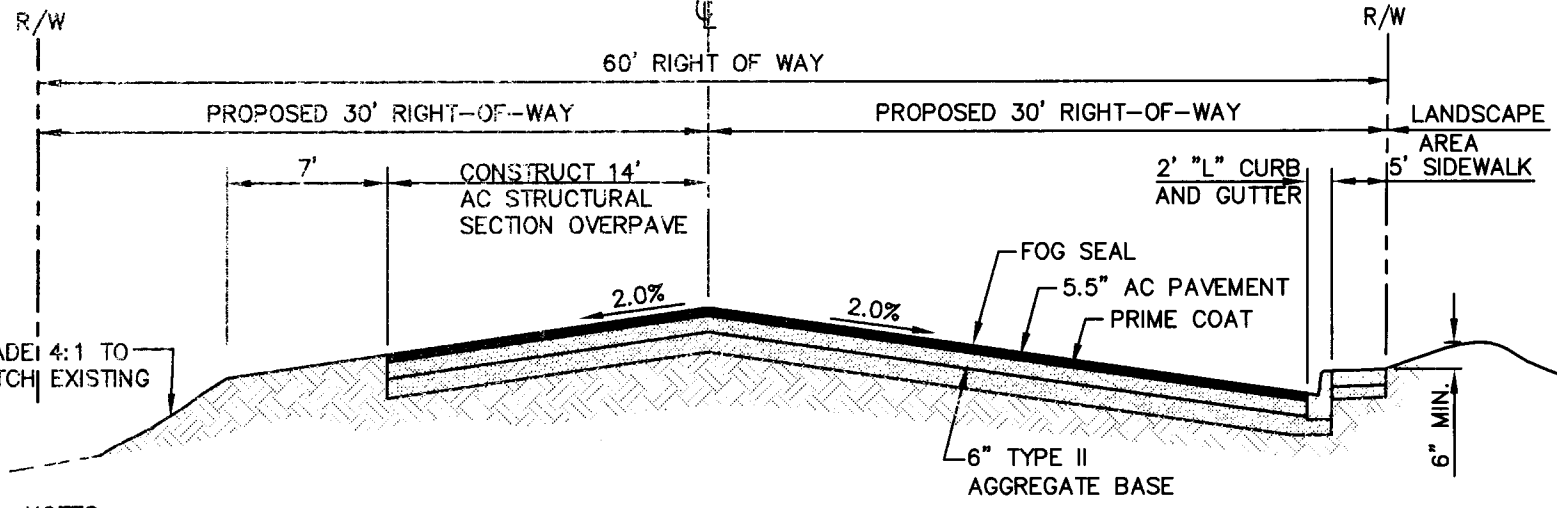
SCALE: 1"=30' HORIZ.

MATCH LINE-SEE C4.02

MATCH LINE-SEE C4.02

PROFILE

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



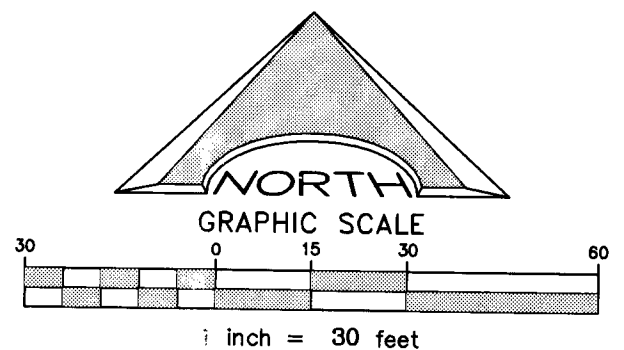
- NOTES:
- REFER TO CCAUSD NO. 205ALT FOR ADDITIONAL INFORMATION.
 - THE OFFSITE SECTIONS SHOWN ON THE PLANS MUST BE DESIGNED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 USING THE AASHTO MODEL. THE NEW SECTION MUST BE BASED ON THE ACTUAL R-VALUE RESULT THAT IS TO BE PERFORMED SUBSEQUENT TO GRADING OPERATIONS. THE NEW SECTION WILL BE REDESIGNED BY THE PROJECT GEOTECHNICAL ENGINEER AND SUBMITTED TO CD FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL INSURE THAT ADEQUATE TIME IS PROVIDED SO THAT THERE IS NO DELAY IN THE CONSTRUCTION SCHEDULE AND THAT THERE IS NO UNNECESSARY GRADING/REGRADE OF ROADWAYS.
 - INTERSECTION AND ENTRANCE CONCRETE VALLEY GUTTERS WERE REMOVED FROM THIS PLAN SET AT THE REQUEST OF THE CITY OF LAS VEGAS TRAFFIC DEPARTMENT.

HAMMER LANE AND ALPINE RIDGE WAY

NOT TO SCALE

A

C4.01



WATER KEY NOTES

- INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x8" TEE AND 6" GATE VALVE) PER UDACS. PLATE NO. 40. PREPROVIDE A MINIMUM 3' CLEARANCE AROUND HYDRANT.
- SEE GENERAL CONSTRUCTION NOTE #16 ON SHEET C5.01
- PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN WATER AND SEWER/ STORM DRAIN LINES WITH SEWER/ STORM DRAIN LINES BEING BELOW WATER LINES.
- INSTALL VEHICULAR PROTECTION BOLLARD PER UDACS. PLATE NO. 40. FOUR (4) BOLLARDS PER HYDRANT.
- INSTALL 8" REDUCED PRESSURE DETECTOR ASSEMBLY ABOVE FG. PER U.D.A.C.S. PLATE NO. 56.
- INSTALL 2-2" METERS PER UDACS PLATE NO. 7 (POTABLE).
- INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39
- REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- INSTALL A RPPA PER UDACS PLATE NO. 8.
- CONTRACTOR TO PROVIDE A MINIMUM OF 4.0' OF COVER ABOVE TOP OF PIPE, BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 FOR ADDITIONAL INFORMATION.
- REFER TO MECHANICAL/ PLUMBING PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
- INSTALL 2-2" RPPA PER UDACS PLATE NO. 8 (POTABLE).
- INSTALL 2x4 MANIFOLD.
- INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE NO. 30, 31 AND 35.
- INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- INSTALL 8"x6" TEE WITH 6" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- INSTALL 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- INSTALL 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- INSTALL 11.25° BEND.
- INSTALL 12"x8" REDUCER.
- INSTALL 4"x4" TEE.
- INSTALL 22.5° BEND.
- INSTALL 8" CROSS PER UDACS PLATE 30 AND 31.
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- INSTALL 4"x3" REDUCER.
- INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- INSTALL 8" CAP & 2" BLOWOFF PER UDACS PLATE NO. 36.
- TRENCH SECTION PER UDACS PLATE NO. 17.

STORM DRAIN KEY NOTES

- INSTALL A 48" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
- INSTALL A 60" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
- INSTALL A 48" TYPE II MANHOLE PER C.C.A.U.S.D. 405.
- INSTALL A 60" TYPE III MANHOLE PER C.C.A.U.S.D. 406.
- INSTALL A CONCRETE COLLAR PER C.C.A.U.S.D. 408.
- INSTALL A 10" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A JENSEN PRECAST DI242448 CATCH BASIN.
- INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
- INSTALL A 10.75" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 11.25" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 13.75" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 15.25" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 19" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 4" TYPE "A" INLET PER C.C.A.U.S.D. 411.
- INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1. UNLESS OTHERWISE NOTED.

CONSTRUCTION KEY NOTES

- CONSTRUCT TYPE 1" CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" MIN. TYPE II BASE COMPACTED TO 95% MIN. UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECHNICAL INVESTIGATION.
- CONSTRUCT TYPE 'A' CURB PER DETAIL 1 ON SHEET C6.01.
- CONSTRUCT 2' CONCRETE VALLEY GUTTER PER DETAIL 2 ON SHEET C6.0
- CONSTRUCT 4' CONCRETE VALLEY GUTTER PER DETAIL 3 ON SHEET C6.0
- CONSTRUCT CONCRETE SIDEWALK PER C.C.A.U.S.D. NO. 234.
- CONSTRUCT SIDEWALK RAMP PER C.C.A.U.S.D. NO. 235 CASE I.
- CONSTRUCT COMMERCIAL DRIVEWAY PER C.C.A.U.S.D. NO. 225 WITH GEOMETRICS OF C.C.A.U.S.D. 222A.
- CONSTRUCT HANDICAP PARKING STA. 10+42.75 TO STA. 10+47.50 PER DETAIL 4 ON SHEET C6.01.
- CONSTRUCT MODIFIED "L" CURB FROM BOX TO MATCH DETAIL 1 ON SHEET C6.01.
- INSTALL 3' FLUME PER DETAIL 5 ON SHEET C6.01.
- INSTALL 6' FLUME PER DETAIL 6 ON SHEET C6.01.

BEINCHMARK

CITY OF LAS VEGAS BENCHMARK 5LV99 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDE AND HAMMER LANE
ELEVATION = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

REVISIONS

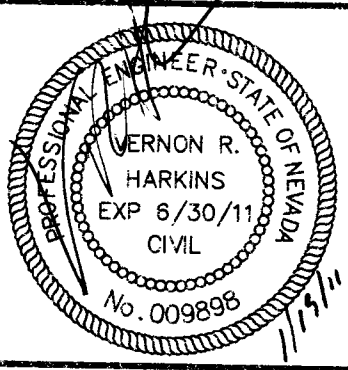
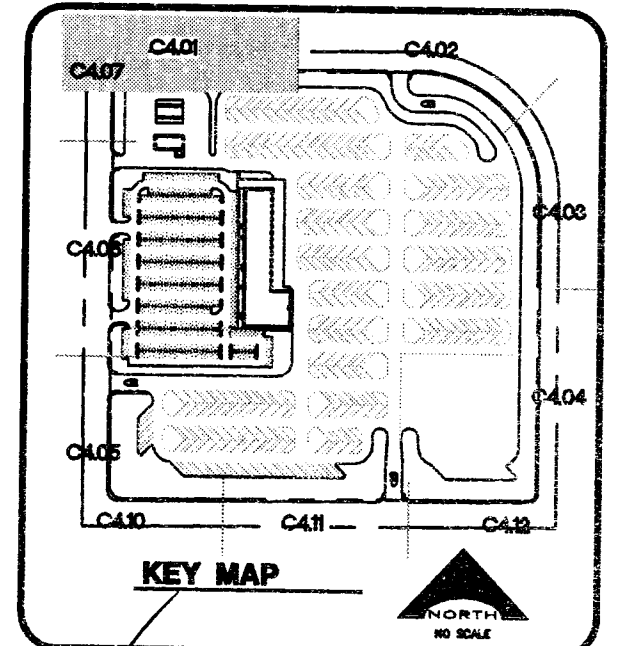
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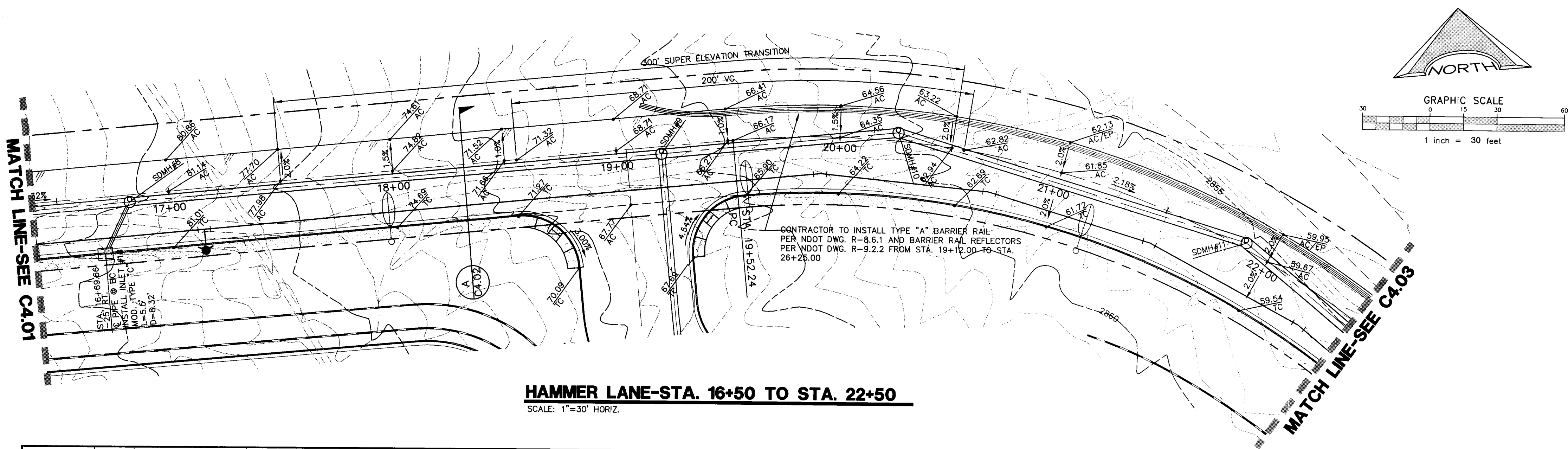
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
DRAWING TITLE
PLAN AND PROFILE-HAMMER LANE

PROJECT
C4.01
SHEET 27 OF 71

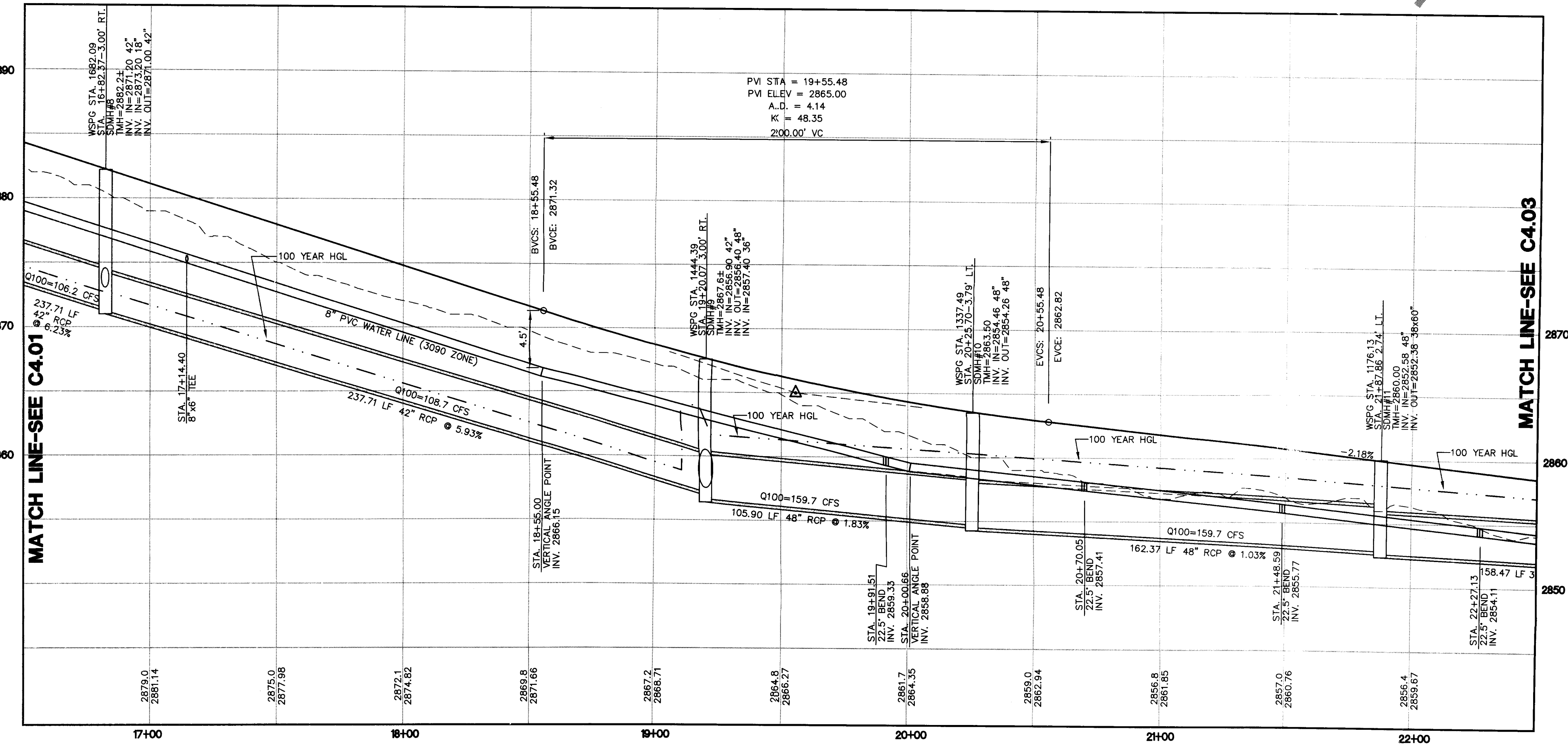
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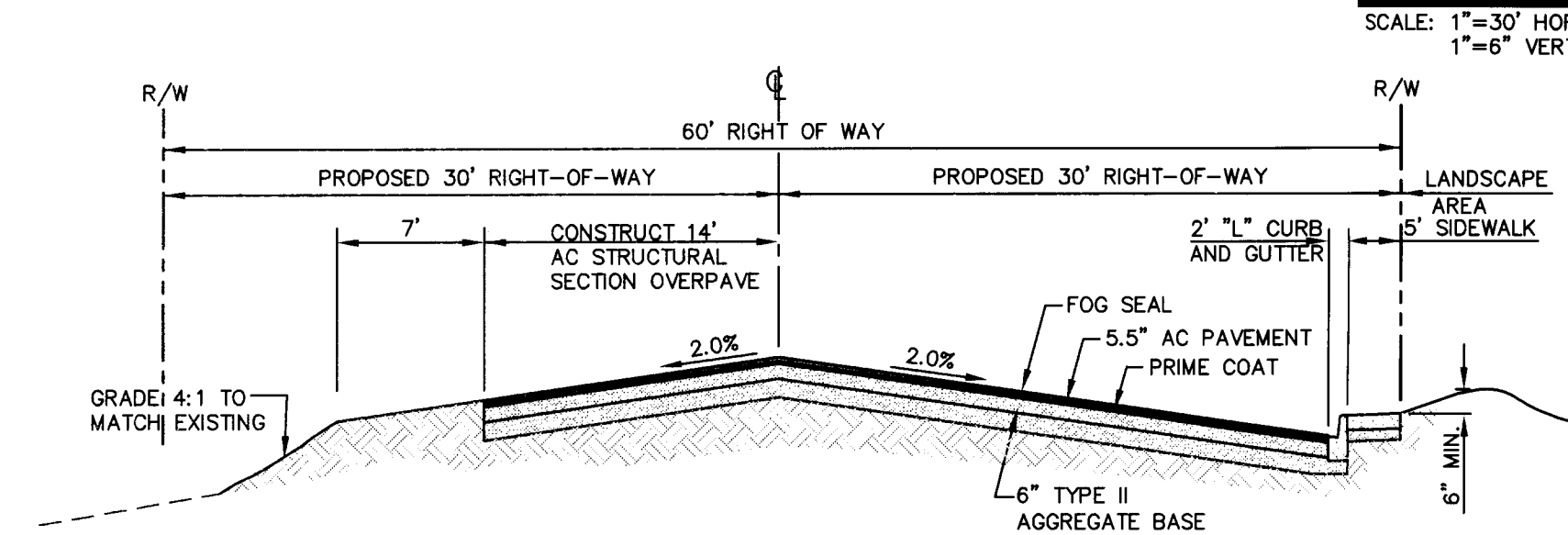
DATE: DECEMBER 21, 2010
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PSE-BID SUBMITTAL
ATE PROJECT NO. 08-816



HAMMER LANE-STA. 16+50 TO STA. 22+50
SCALE: 1"=30' HORIZ.



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



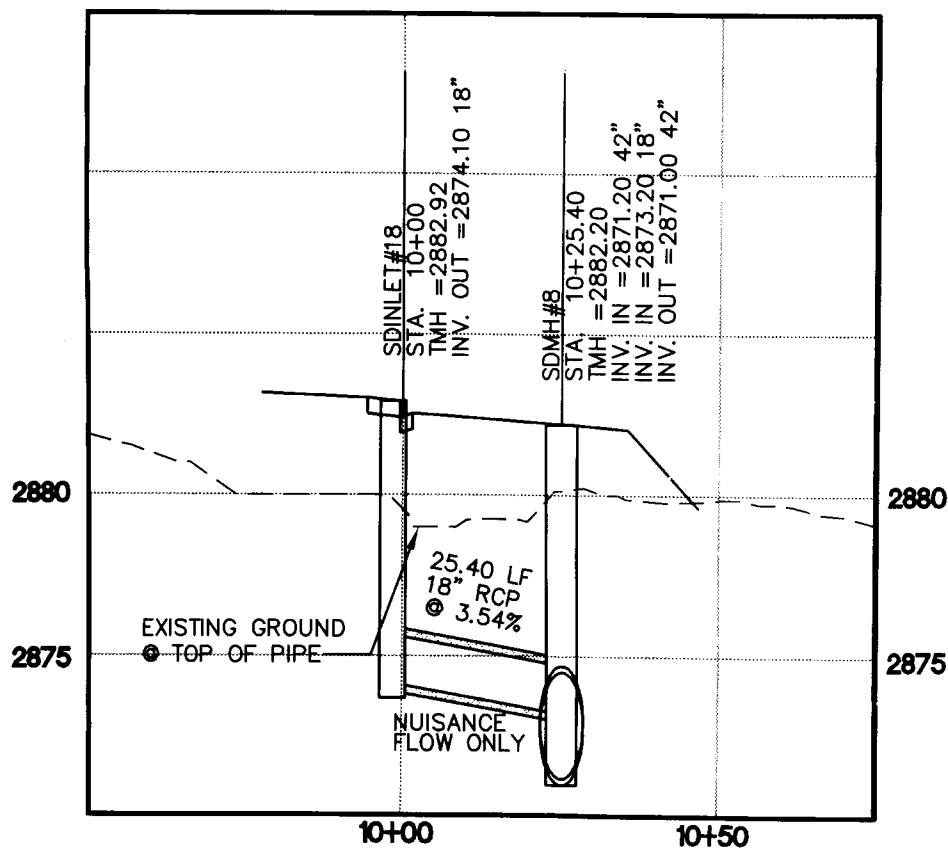
NOTES:

- REFER TO CCAUSD No. 205ALT FOR ADDITIONAL INFORMATION.
- THE OFFSITE SECTIONS SHOWN ON THE PLANS MUST BE DESIGNED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 USING THE AASHTO MODEL. THE NEW SECTION MUST BE BASED ON THE ACTUAL R-VALUE RESULT THAT IS TO BE PERFORMED SUBSEQUENT TO GRADING OPERATIONS. THE NEW SECTION WILL BE REDESIGNED BY THE PROJECT GEOTECHNICAL ENGINEER AND SUBMITTED TO CLV FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL INSURE THAT ADEQUATE TIME IS PROVIDED SO THAT THERE IS NO DELAY IN THE CONSTRUCTION SCHEDULE AND THAT THERE IS NO UNNECESSARY GRADING/REGRADE OF ROADWAYS.
- INTERSECTION AND ENTRANCE CONCRETE VALLEY GUTTERS WERE REMOVED FROM THIS PLAN SET AT THE REQUEST OF THE CITY OF LAS VEGAS TRAFFIC DEPARTMENT.

HAMMER LANE AND ALPINE RIDGE LANE

NOT TO SCALE

A
C4.02



LATERAL AT SDMH#8
SCALE: 1"=30' HORIZ.
1"=6" VERT.

CONSTRUCTION KEY NOTES

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

WATER KEY NOTES

- INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE AND 6" GATE VALVE) PER UDACS. PLATE NO. 40. PROVIDE A MINIMUM 3' CLEARANCE AROUND HYDRANT.
- SEE GENERAL CONSTRUCTION NOTE #16 ON SHEET C5.01.
- PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN WATER AND SEWER/ STORM DRAIN LINES WITH SEWER/ STORM DRAIN LINES BEING BELOW WATER LINES.
- INSTALL VEHICULAR PROTECTION BOLLARD PER UDACS. PLATE NO. 40. FOUR (4) BOLLARDS PER HYDRANT.
- INSTALL 8" REDUCED PRESSURE DETECTOR ASSEMBLY ABOVE FG, PER U.D.A.C.S. PLATE NO. 56.
- INSTALL 2-2" METERS PER UDACS PLATE NO. 7 (POTABLE).
- INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- INSTALL A RPPA PER UDACS PLATE NO. 8.
- CONTRACTOR TO PROVIDE A MINIMUM OF 4.0' OF COVER ABOVE TOP OF PIPE, BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 FOR ADDITIONAL INFORMATION.
- REFER TO MECHANICAL/ PLUMBING PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
- INSTALL 2-2" RPPA PER UDACS PLATE NO. 8 (POTABLE).
- INSTALL 2x4 MANIFOLD.
- INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE NO. 30, 31 AND 35.
- INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- INSTALL 8"x6" TEE WITH 6" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- INSTALL 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- INSTALL 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- INSTALL 11.25° BEND.
- INSTALL 12"x8" REDUCER.
- INSTALL 4"x4" TEE.
- INSTALL 22.5° BEND.
- INSTALL 8" CROSS PER UDACS PLATE 30 AND 31.
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- INSTALL 4"x3" REDUCER.
- INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- INSTALL 8" CAP & 2" BLOWOFF PER UDACS PLATE NO. 36.
- TRENCH SECTION PER UDACS PLATE NO. 17.

STORM DRAIN KEY NOTES

- INSTALL A 48" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
- INSTALL A 60" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
- INSTALL A 48" TYPE II MANHOLE PER C.C.A.U.S.D. 405.
- INSTALL A 60" TYPE III MANHOLE PER C.C.A.U.S.D. 406.
- INSTALL A CONCRETE COLLAR PER C.C.A.U.S.D. 408.
- INSTALL A 10" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A JENSEN PRECAST DI242448 CATCH BASIN.
- INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
- INSTALL A 10.75" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 11.25" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 13.75" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 15.25" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 19" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- INSTALL A 4" TYPE "A" INLET PER C.C.A.U.S.D. 411.
- INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.

ALL STORM DRAIN PIPE SHALL BE PER NDOT DETAIL R-2.3.1. UNLESS OTHERWISE NOTED.

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 58 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 5199 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

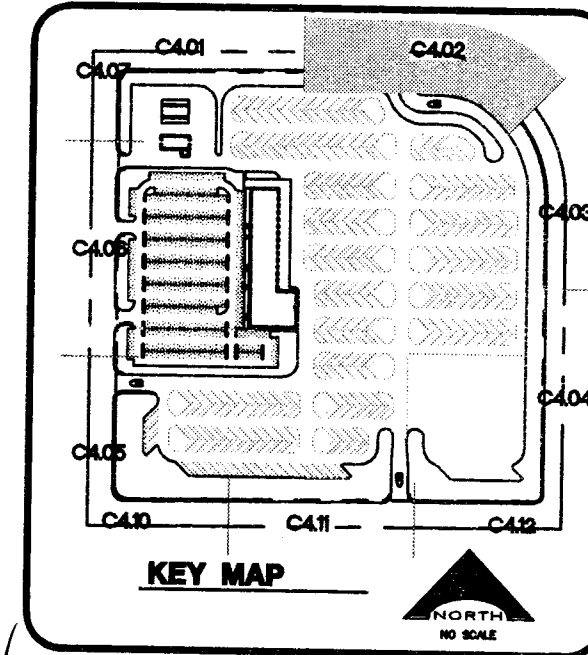
REVISIONS			
REV	DESCRIPTION	DATE	BY

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.

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Avoid cutting underground utility lines. It's costly.
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NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



SEAL	ENGINEER-AT-LARGE VERNON R. HARKINS EXP. 6/30/11 CIVIL No. 008996	CCSD PROJECT NO. 1549 CCSD REVIEW APPROVED BY DATE DECEMBER 21, 2010 DRAWN BY CHECKED BY SUBMITTAL PREPARED BY NO. 008996
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L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
(702) 451-2286 FAX

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
4170 McLEDD DRIVE
AUSTIN

KGA ARCHITECTURE
9075 West Diablo Drive, Third Floor
Las Vegas, Nevada 89148
702.357.6900
LAS VEGAS

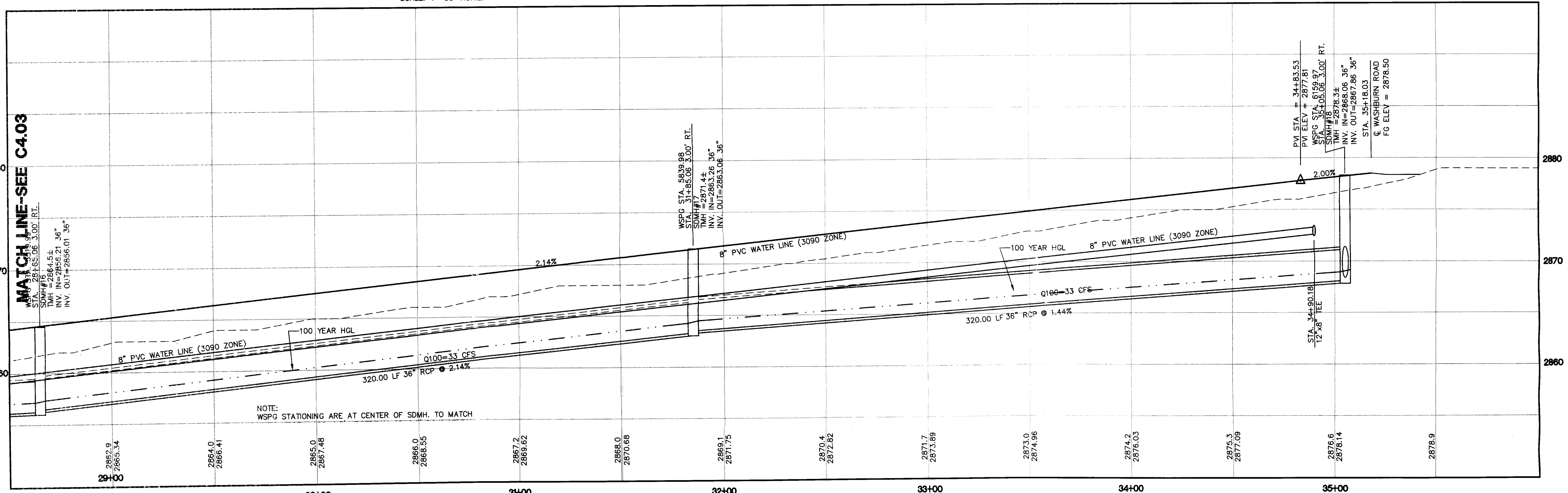
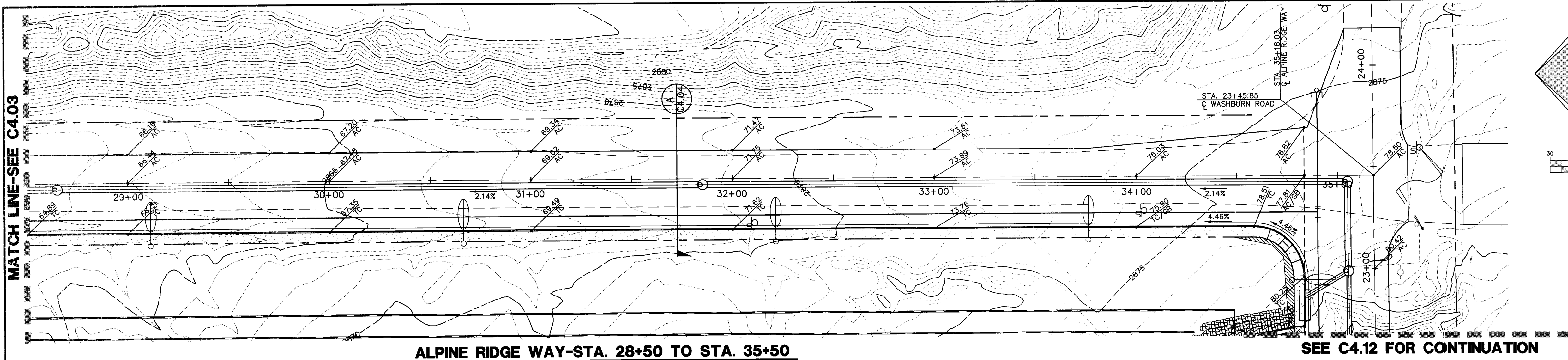
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LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
4170 McLEDD DRIVE
AUSTIN

PLAN AND PROFILE-HAMMER LANE

C4.02
SHEET 28 OF 71

CLV#
HTE#



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 PARKING STALL 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.

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.

WATER KEY NOTES

1. INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE AND 6" GATE VALVE) PER UDACS PLATE NO. 40. PROVIDE A MINIMUM 3' CLEARANCE AROUND HYDRANT.
2. SEE GENERAL CONSTRUCTION NOTE #16 ON SHEET C5.01.
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. 40. 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 2-2" METERS PER UDACS PLATE NO. 7 (POTABLE).
7. INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 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 PIPE, BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 FOR ADDITIONAL INFORMATION.
11. REFER TO MECHANICAL/ PLUMBING PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
12. INSTALL 2-2" RPPA PER UDACS PLATE NO. 8 (POTABLE).
13. INSTALL 2"x4 MANIFOLD.
14. INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE NO. 30, 31 AND 35.
15. INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 31.
16. INSTALL 8"x6" TEE WITH 6" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
17. INSTALL 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
18. INSTALL 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
19. INSTALL 11.25° BEND.
20. INSTALL 12"x8" REDUCER.
21. INSTALL 4"x4" TEE.
22. INSTALL 22.5° BEND.
23. INSTALL 8" CROSS PER UDACS PLATE 30 AND 31.
24. INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
25. INSTALL 4"x3" REDUCER.
26. INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 31.
27. INSTALL 8" CAP & 2" BLOWOFF PER UDACS PLATE NO. 36.
28. TRENCH SECTION PER UDACS PLATE NO. 17.

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 10' TYPE "C" INLET PER C.C.A.U.S.D. 413.
7. INSTALL A JENSEN PRECAST D1242448 CATCH BASIN.
8. INSTALL A JENSEN PRECAST D1484872 CATCH BASIN.
9. INSTALL A 10.75' TYPE "C" INLET PER C.C.A.U.S.D. 413.
10. INSTALL A 11.25' TYPE "C" INLET PER C.C.A.U.S.D. 413.
11. INSTALL A 13.75' TYPE "C" INLET PER C.C.A.U.S.D. 413.
12. INSTALL A 15.25' TYPE "C" INLET PER C.C.A.U.S.D. 413.
13. INSTALL A 19' TYPE "C" INLET PER C.C.A.U.S.D. 413.
14. INSTALL A 4' TYPE "A" INLET PER C.C.A.U.S.D. 413.
15. INSTALL AN RCP END SECTION PER NDOT DETAIL 12.31.

ALL STORM DRAIN PIPE SHALL BE CLASSIFIED PER DETAIL 12.31 UNLESS OTHERWISE NOTED.

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 38 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 = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

REVISIONS			
REV	DESCRIPTION	DATE	BY

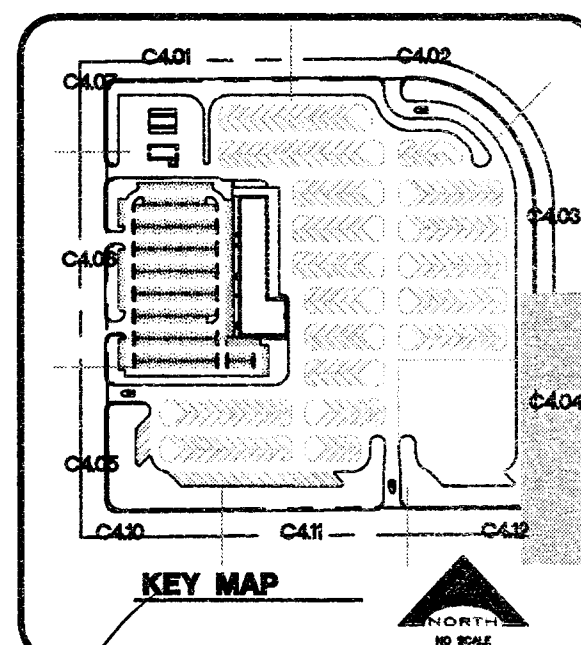
DISCLAIMER NOTE

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	PROJECT NO.	1549
	CCSD REVIEW	DATE
	APPROVED BY	DATE
	CHECKED BY	DATE
	DATE	DECEMBER 21, 2010
	PREPARED BY	DATE
	SUBMITTAL	DATE
	PROTECT NO.	08-816

L. R. NELSON
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Las Vegas, Nevada 89118
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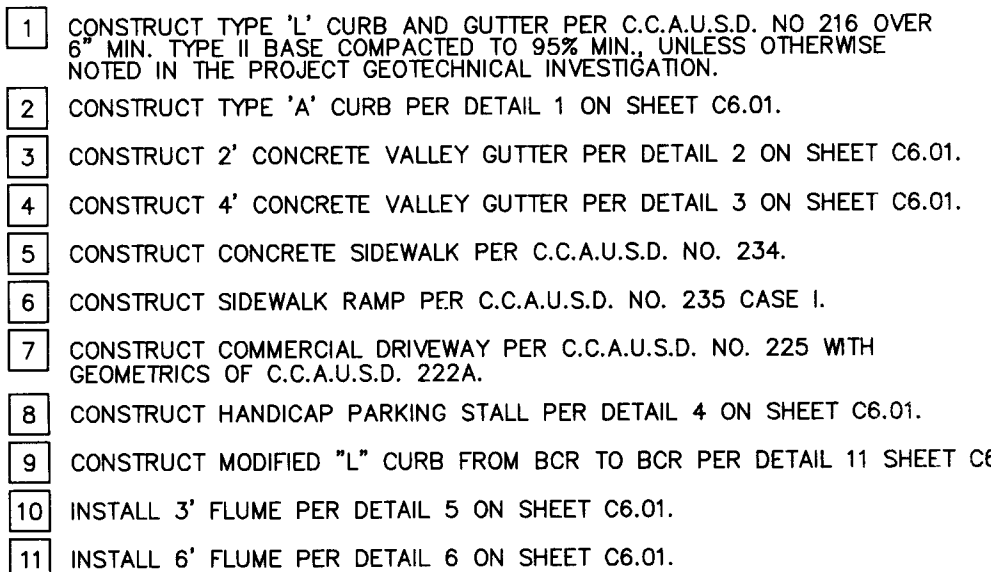
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AUSTIN

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
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LAS VEGAS, NEVADA 89121

PLAN AND PROFILE-ALPINE RIDGE WAY

SHEET NO.	C4.04
SHEET 30 OF 71	
CLV#	
HTE#	



NOT ALL ITEMS ARE USED ON THIS SHEET

- (1) INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE AND 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. 40. 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. 7 (POTABLE).
- (7) INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 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 PIPE BASED ON FINISH GRADE FOR ON-SITE WATERLINES, OFF-SITE PUBLIC UTILITIES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 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 2"x4" MANIFOLD.
- (14) INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE NO. 30, 31 AND 35.
- (15) INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 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.
- (20) INSTALL 12"x8" REDUCER.
- (21) INSTALL 12"x12" TEE.
- (22) INSTALL 24"x22.5" BEND.
- (23) DEFLECT PIPE JOINT 1" PER UDACS 2.07.01.
- (24) INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- (25) INSTALL 24"x12" TEE.
- (26) INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 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.

- 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 10" TYPE "C" INLET PER C.C.A.U.S.D. 413.
- 7 INSTALL A JENSEN PRECAST D:242448 CATCH BASIN.
- 8 INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
- 9 INSTALL A 10.75" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D.
- 10 INSTALL A 11.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D.
- 11 INSTALL A 13.75" MODIFIED TYPE "E" INLET PER C.C.A.U.S.D.
- 12 INSTALL A 15.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D.
- 13 INSTALL A 19" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D.
- 14 INSTALL A 4" TYPE "A" INLET PER C.C.A.U.S.D. 411.
- 15 INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.
- 16 INSTALL A 5.5" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. ALL STORM DRAIN PIPE SHALL BE CLASS III (MIN.)

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 HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 24 INCHES MEASURED FROM THE TOP OF ASPHALT, GRAVEL OR PAVEMENT STRIP SURFACE.

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.

(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 = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM

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.

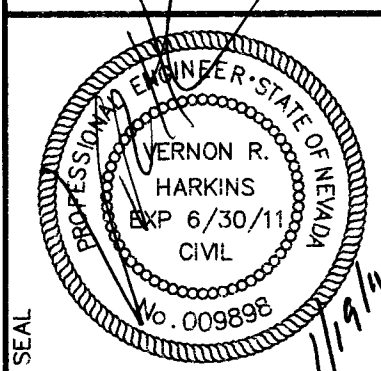
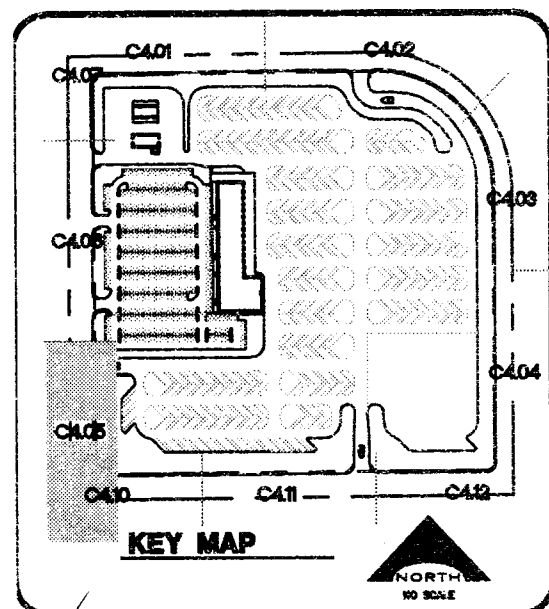
Call
811

OR
1-800-227-2660
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

Avoid overhead power
line contact

Call
before you
OVERHEAD

1-702-227-2929
NEVADA POWER ENVIRONMENT
SAFETY SERVICES DEPARTMENT



COSD PROJECT NO.	1549
COSD REVIEW	
APPROVED BY	
DATE	
DATE	DECEMBER 21, 2010
DRAWN BY	
CHECKED BY	
SUBMITTAL	
P&E BID SUBMITTAL	
A/E PROJECT NO.	08 846

L. R. NELSON CONSULTING ENGINEERS, INC.

- STRUCTURAL
- CIVIL
- SURVEY
- PLANNING

6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118

(702) 798-7978
(702) 451-2296 FAX

L. DISTRICT
IGN
S VEGAS, NEVADA 89121
PORTATION
D

KGA ARCHITECTURE 9075 West Diablo Floor, Las Vegas, Nevada 89148 702.367.6900 www.KGArchitect.com LAS VEGAS	PROJECT CCSD NORTHWEST SATELLITE TRANS FACILITY DRAWING TITLE
	SHEET NO. C4.05 SHEET 31 OF 71
CLV#	
HTE#	

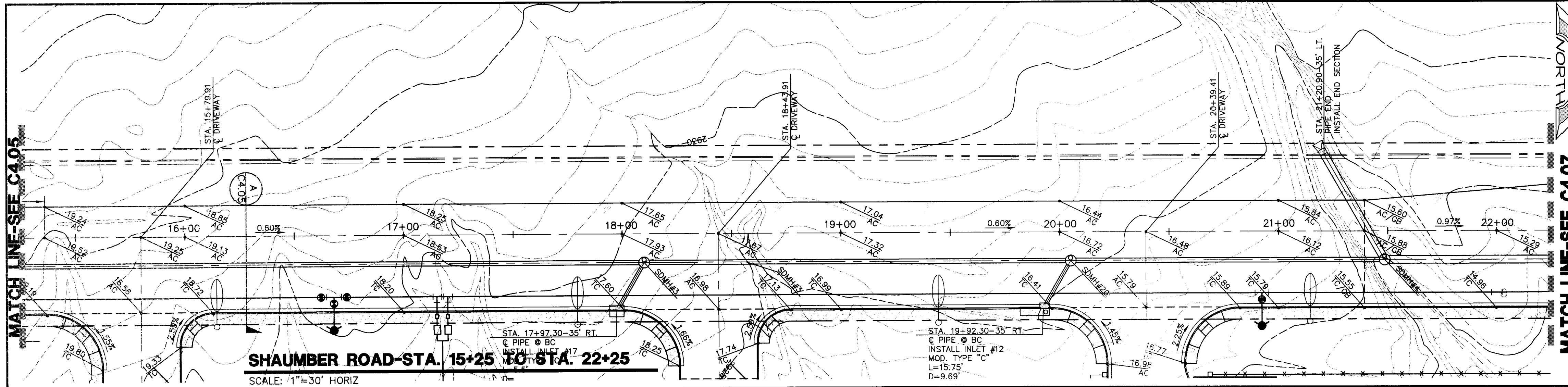


SCALE: 1"=30' HORIZ
1"=6' VERT.

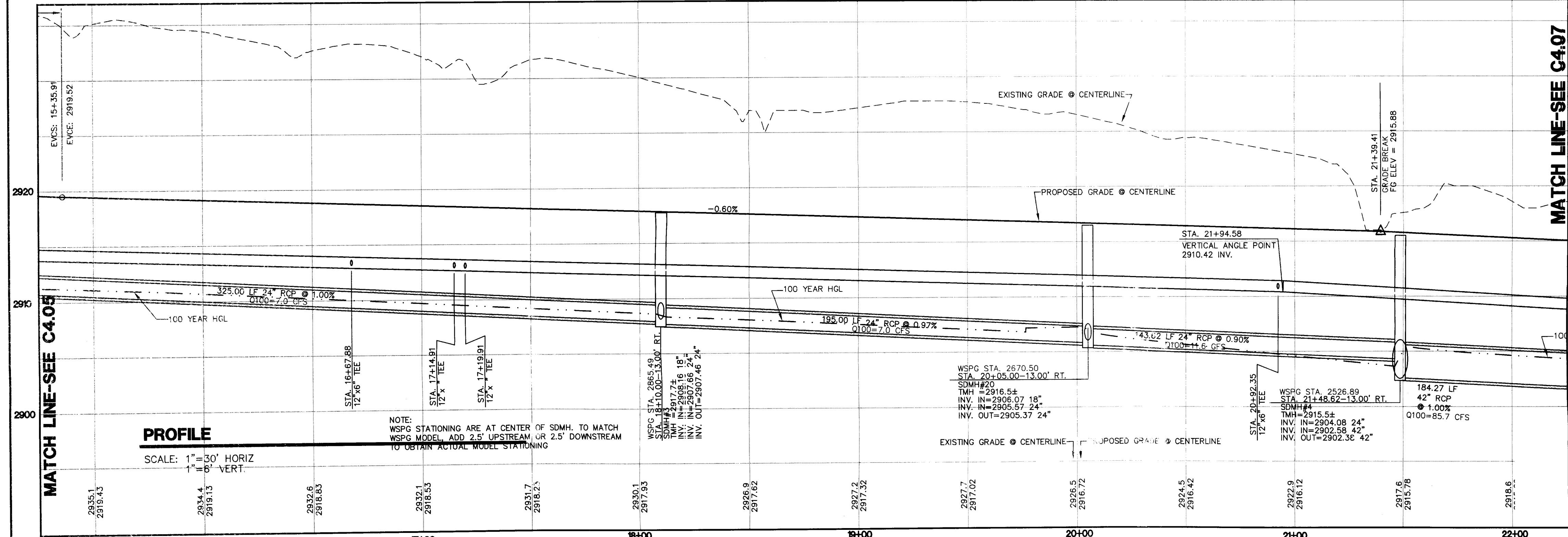


NOTES:

1. REFER TO CCAUSD NO. 205ALT FOR ADDITIONAL INFORMATION.
2. THE OFFSITE SECTIONS SHOWN ON THE PLANS MUST BE DESIGNED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 USING THE AASHTO MODEL. THE NEW SECTION MUST BE BASED ON THE ACTUAL R-VALUE RESULT THAT IS TO BE PERFORMED SUBSEQUENT TO GRADING OPERATIONS. THE NEW SECTION WILL BE REDESIGNED BY THE PROJECT GEOTECHNICAL ENGINEER, AND SUBMITTED TO CLV FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL INSURE THAT ADEQUATE TIME IS PROVIDED SO THAT THERE IS NO DELAY IN THE CONSTRUCTION SCHEDULE AND THAT THERE IS NO UNNECESSARY GRADING/REGRADE OF ROADWAYS.
3. INTERSECTION AND ENTRANCE CONCRETE VALLEY GUTTERS WERE REMOVED FROM THIS PLAN SET AT THE REQUEST OF THE CITY



SHAUMBER ROAD-STA. 15+25 TO STA. 22+25
SCALE: 1"=30' HORIZ



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

CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE "L" CURB AND GUTTER PER C.C.A.U.S.D. NO. 218 OVER 6" 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 PARKING STALL 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.

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 10' TYPE "C" INLET PER C.C.A.U.S.D. 413.
7. INSTALL A JENSEN PRECAST D124448 CATCH BASIN.
8. INSTALL A JENSEN PRECAST D148472 CATCH BASIN.
9. INSTALL A 10.75' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 410.
10. INSTALL A 11.25' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 411.
11. INSTALL A 13.75' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412.
12. INSTALL A 15.25' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 413.
13. INSTALL A 19' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 414.
14. INSTALL A 4' TYPE "A" INLET PER C.C.A.U.S.D. 411.
15. INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.3.1.
16. INSTALL A 5.5' MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 411 UNLESS OTHERWISE NOTED.

WATER KEY NOTES

NOT ALL ITEMS ARE USED ON THIS SHEET

1. INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE AND 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. 40, 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. 7 (POTABLE).
7. INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 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 PIPE, BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 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 35.
15. INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 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.
20. INSTALL 12"x8" REDUCER.
21. INSTALL 12"x12" TEE.
22. INSTALL 24"x22.5" BEND.
23. DEFLECT PIPE JOINT 1' PER UDACS 2.07.01.
24. INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
25. INSTALL 24"x12" TEE.
26. INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 31.
27. INSTALL 12" CAP & 2" BLOWOFF PER UDACS PLATE NO. 36.
28. TRENCH SECTION PER UDACS PLATE NO. 17.

NOTE:

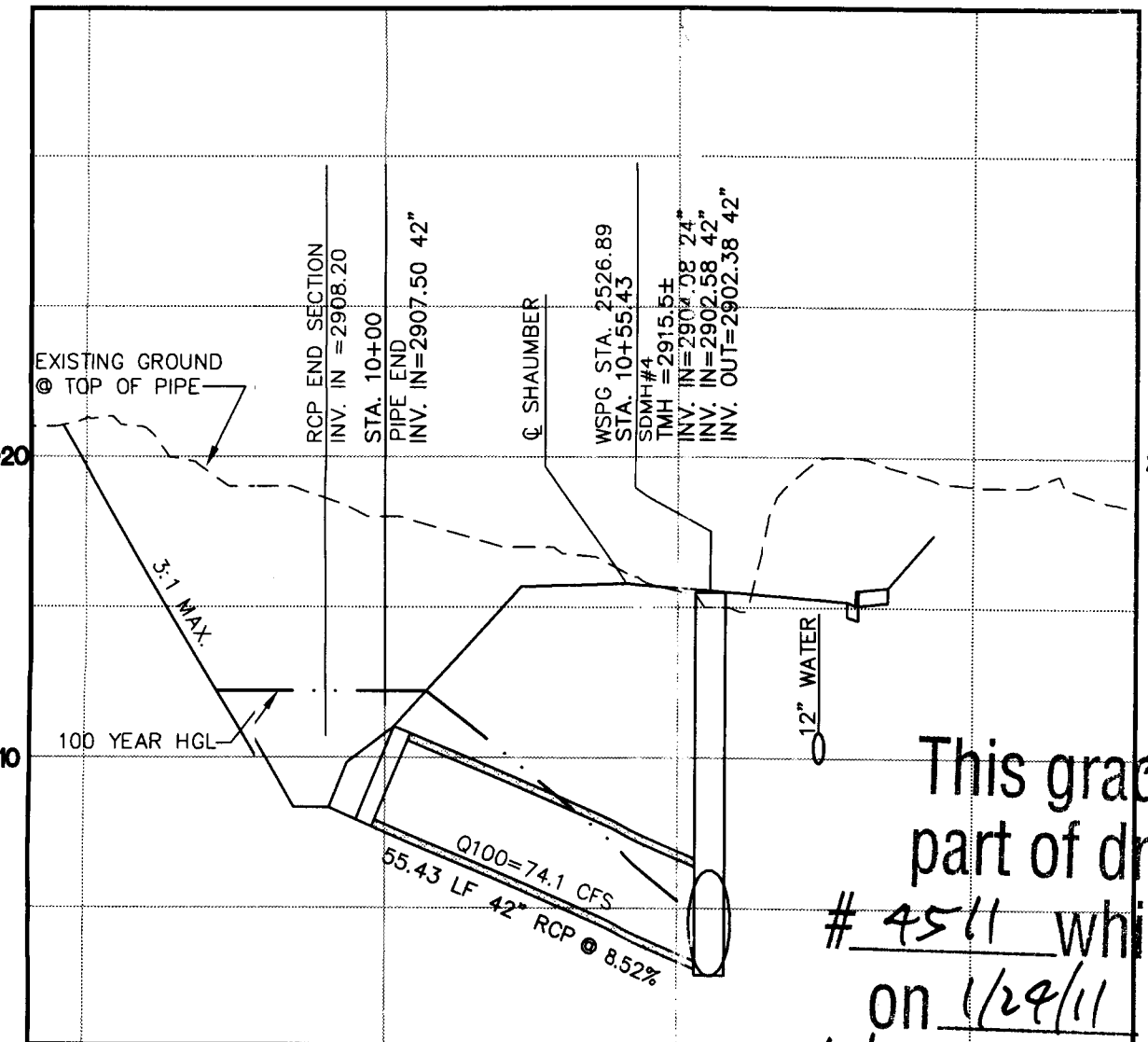
REFER TO SIGNAGE AND STRIPING SHEETS FOR LOCATIONS OF SIGHT VISIBILITY ZONES. EACH CORNER OF EVERY INTERSECTION SHALL HAVE A SIGHT VISIBILITY ZONE REGARDLESS OF RIGHT OF WAY WIDTH. NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL AND STREET LIGHT 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.

BASIS OF BEARING

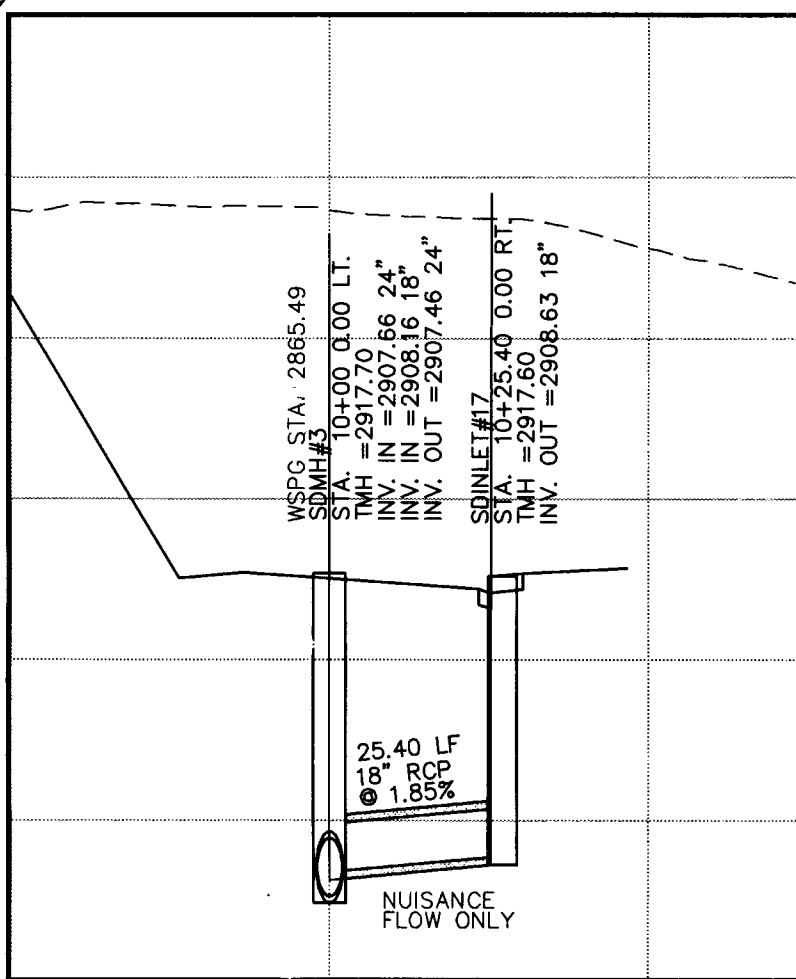
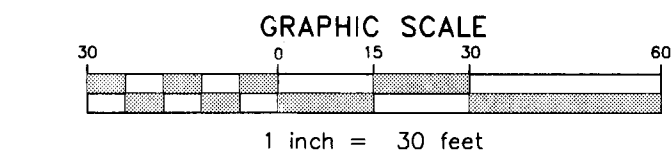
NORTH 00°05'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 36, TOWNSHIP 19 SOUTH, RANGE 59 EAST, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS FILE 89, PAGE 3 OF SURVEYS.

BENCHMARK

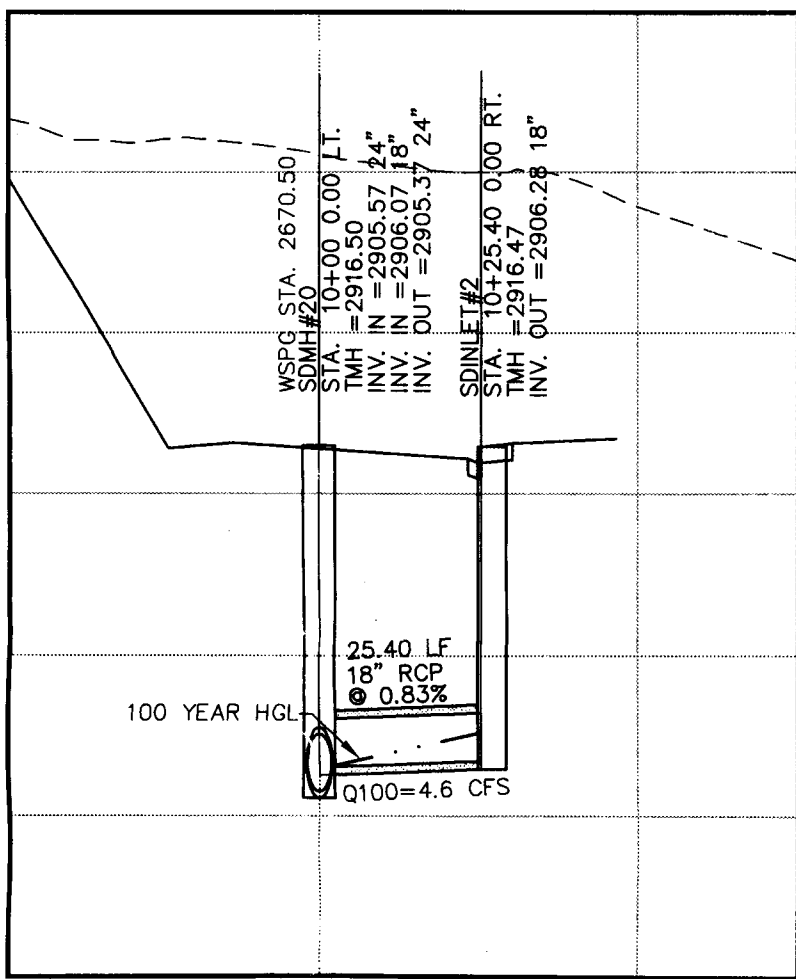
CITY OF LAS VEGAS BENCHMARK 5LV99 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM



LATEL AT SDMH#4
SCALE: 1"=30' HORIZ
1"=6' VERT.



LATEL AT SDMH#3
SCALE: 1"=30' HORIZ
1"=6' VERT.



LATEL AT SDMH#20
SCALE: 1"=30' HORIZ
1"=6' VERT.

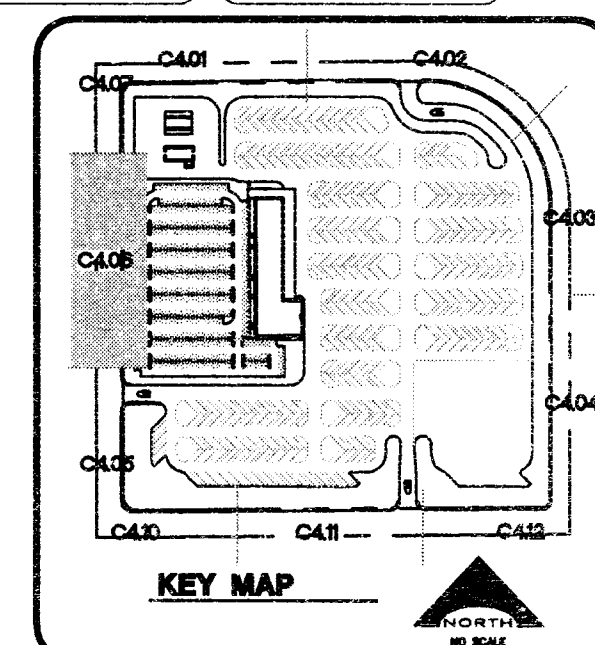
REVISIONS			
REV	DESCRIPTION	DATE	BY

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NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



PROJECT NO. 15-49	DESIGNED BY VERNON R. HARKINS	DATE 6/30/11
APPROVED BY	CIVIL	DATE
DATE	DECEMBER 21, 2010	CHECKED BY
SUBMITTAL	DATE	DATE
PROJECT NO.	08-816	DATE

L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 786-7978 FAX
(702) 451-2296 FAX

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
4170 MELEND DRIVE
LAS VEGAS, NEVADA 89121

STRUCTURE
9075 West Diablo Drive, Third Floor
Las Vegas, Nevada 89144
702.367.6900
LAS VEGAS

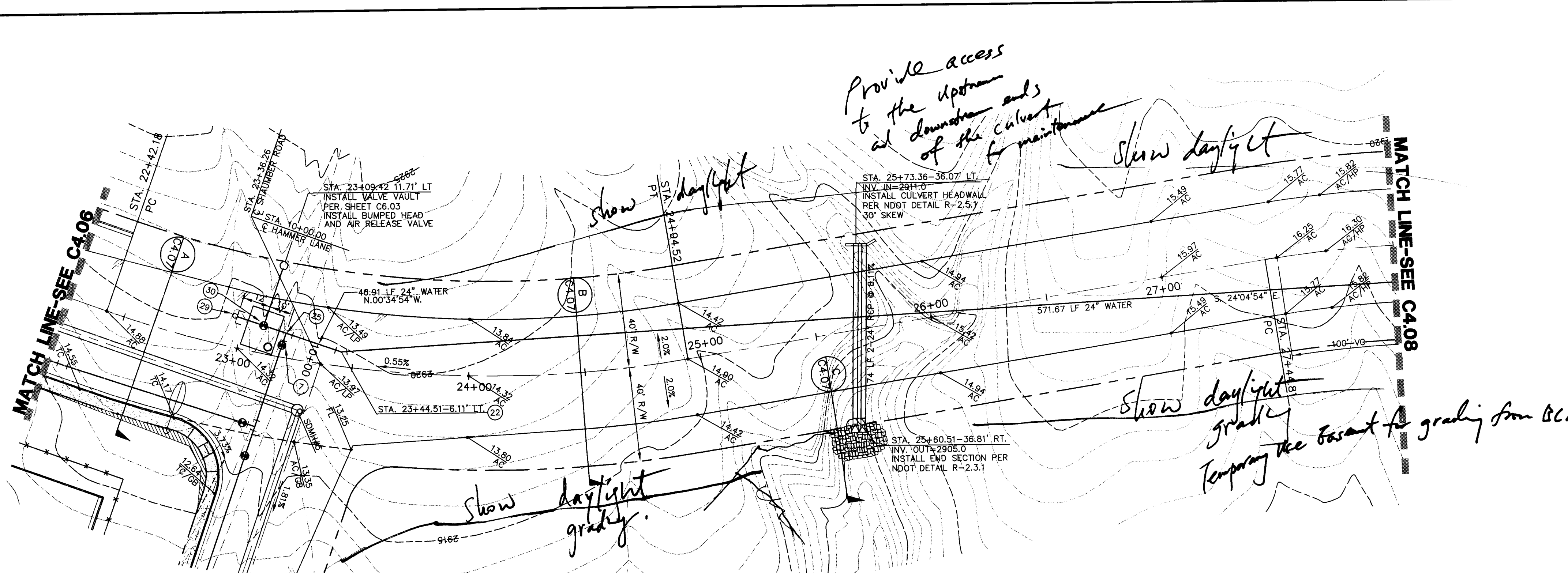
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LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
4170 MELEND DRIVE
LAS VEGAS, NEVADA 89121

PLAN AND PROFILE-SHAUMBER ROAD

SHEET NO. **C4.06**
SHEET 32 OF 71

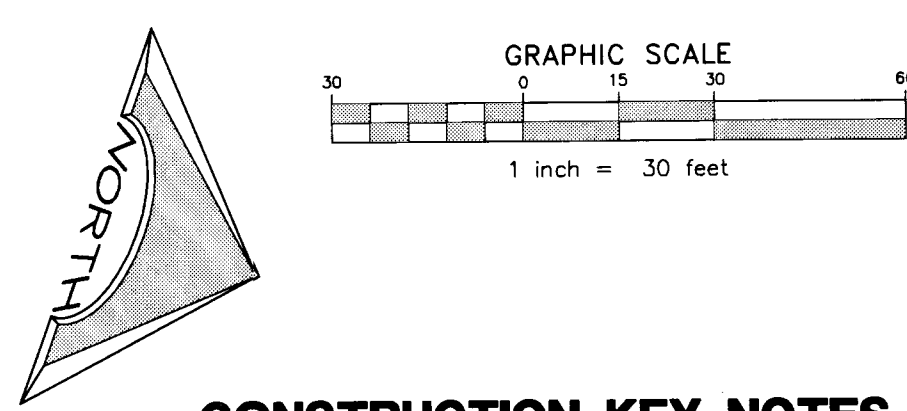
CLV#
HTE#



SHAUMBER ROAD-STA. 22+25 TO STA. 28+00

SCALE: 1"=30' HORIZ

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CONSTRUCTION KEY NOTES

1. CONSTRUCT TYPE "L" CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER 6" 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 PARKING STALL 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.

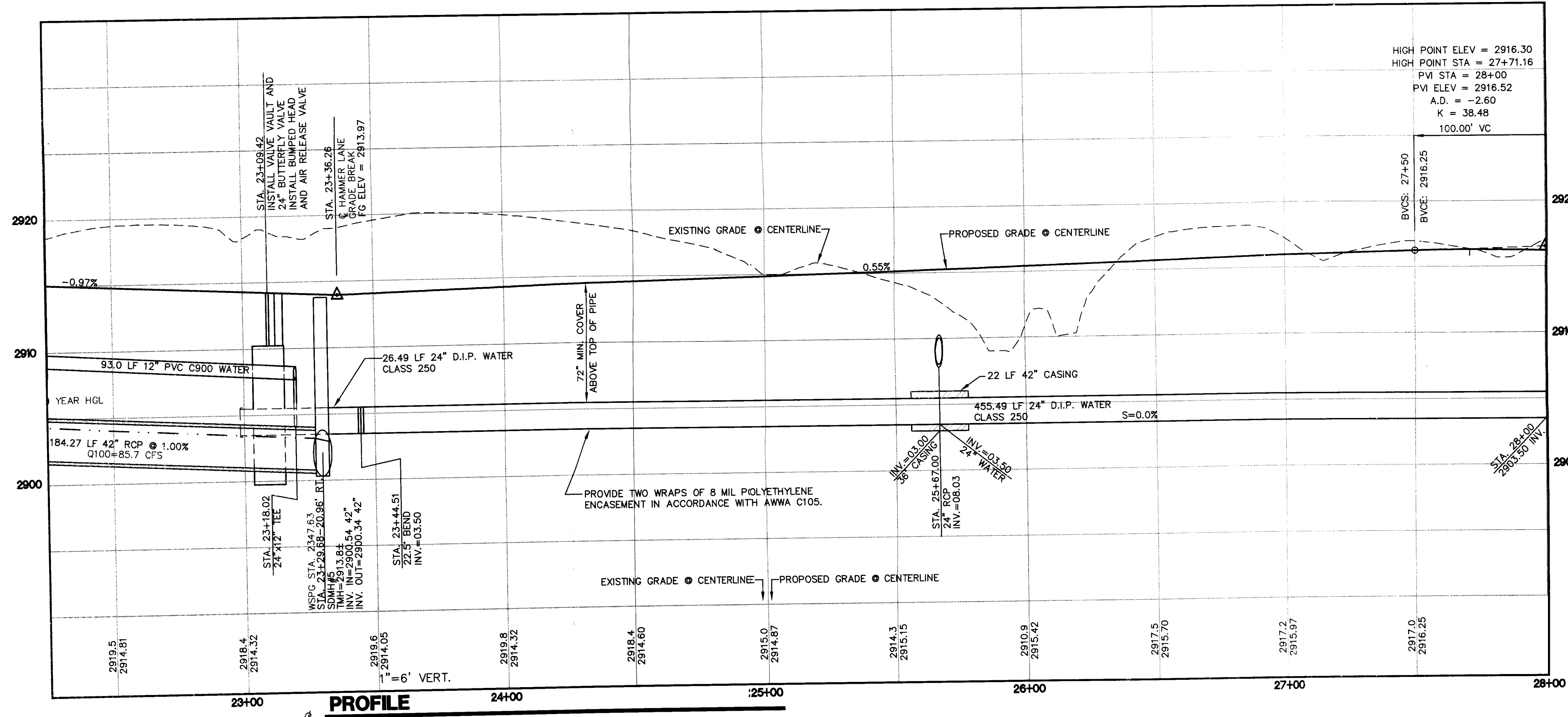
WATER MAIN NOTES

NOT ALL ITEMS ARE USED ON THIS SHEET

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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.
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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. 7 (POTABLE).
7. INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 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 PIP BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE. REFER TO UDACS SECTION 2.07 FOR ADDITIONAL INFORMATION.
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28. TRENCH SECTION PER UDACS PLATE NO. 17.
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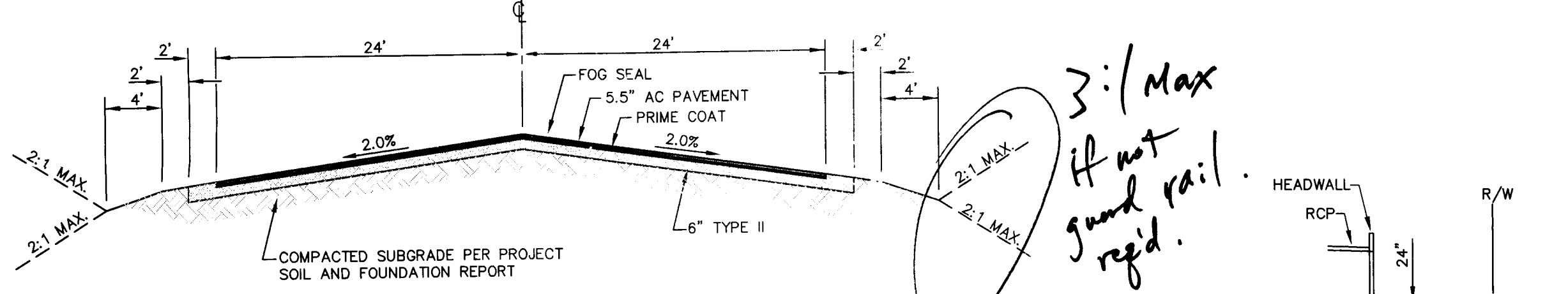
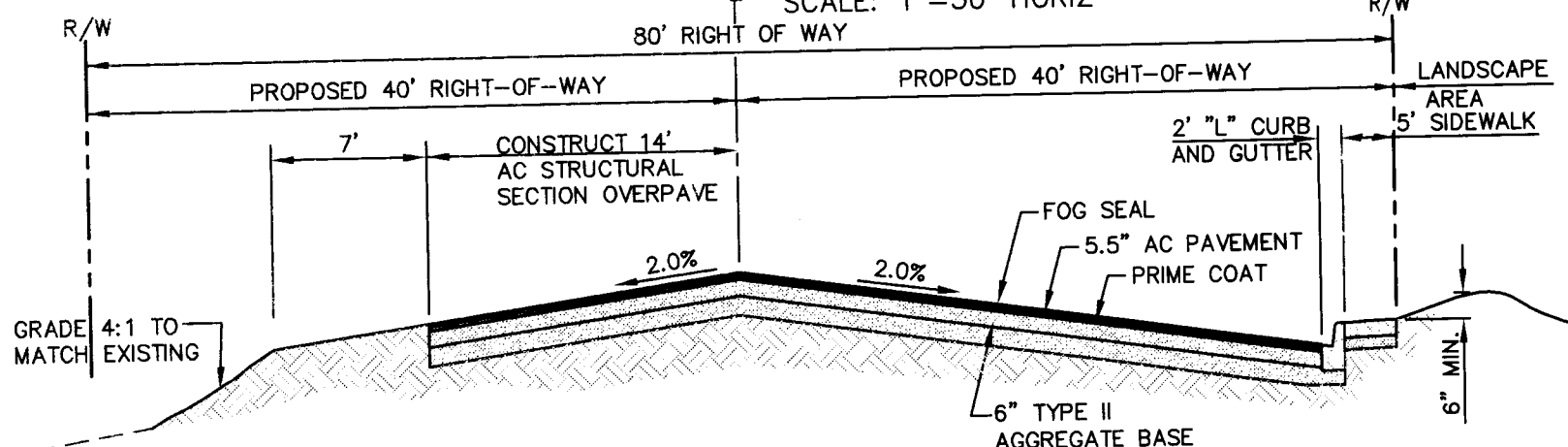
WATER MAIN NOTE

DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600, "INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES," AND THE MANUFACTURER'S RECOMMENDATIONS.



PROFILE

SCALE: 1"=30' HORIZ



SHAUMBER ROAD

NOT TO SCALE

SECTION

NOT TO SCALE

- NOTES:
1. REFER TO CCAUSD No. 205ALT FOR ADDITIONAL INFORMATION.
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 3. INTERSECTION AND ENTRANCE CONCRETE VALLEY GUTTERS WERE REMOVED FROM THIS PLAN SET AT THE REQUEST OF THE CITY OF LAS VEGAS TRAFFIC DEPARTMENT.

SHAUMBER ROAD

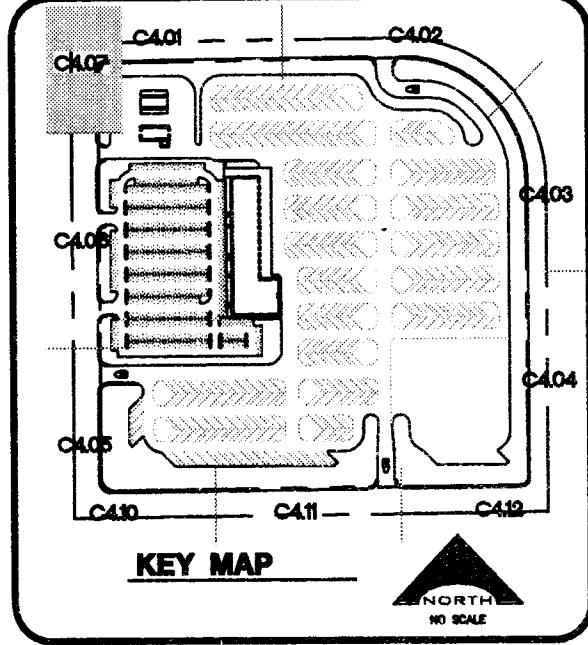
NOT TO SCALE

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NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT



VERNON R. HARKINS
EXP 6/30/10
CIVIL
No. 009898
10/10

PROJECT NO. 15493
CSD REVIEW
APPROVED BY
DATE
DECEMBER 21, 2010
DRAWN BY
CHECKED BY
SUBMITTAL
PROJECT NO. 15493

L. R. NELSON CONSULTING ENGINEERS, INC.
6755 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
(702) 451-2286 FAX

KGA ARCHITECTURE
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702.367.6900
www.KGAarchitecture.com
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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

PLAN AND PROFILE-SHAUMBER ROAD

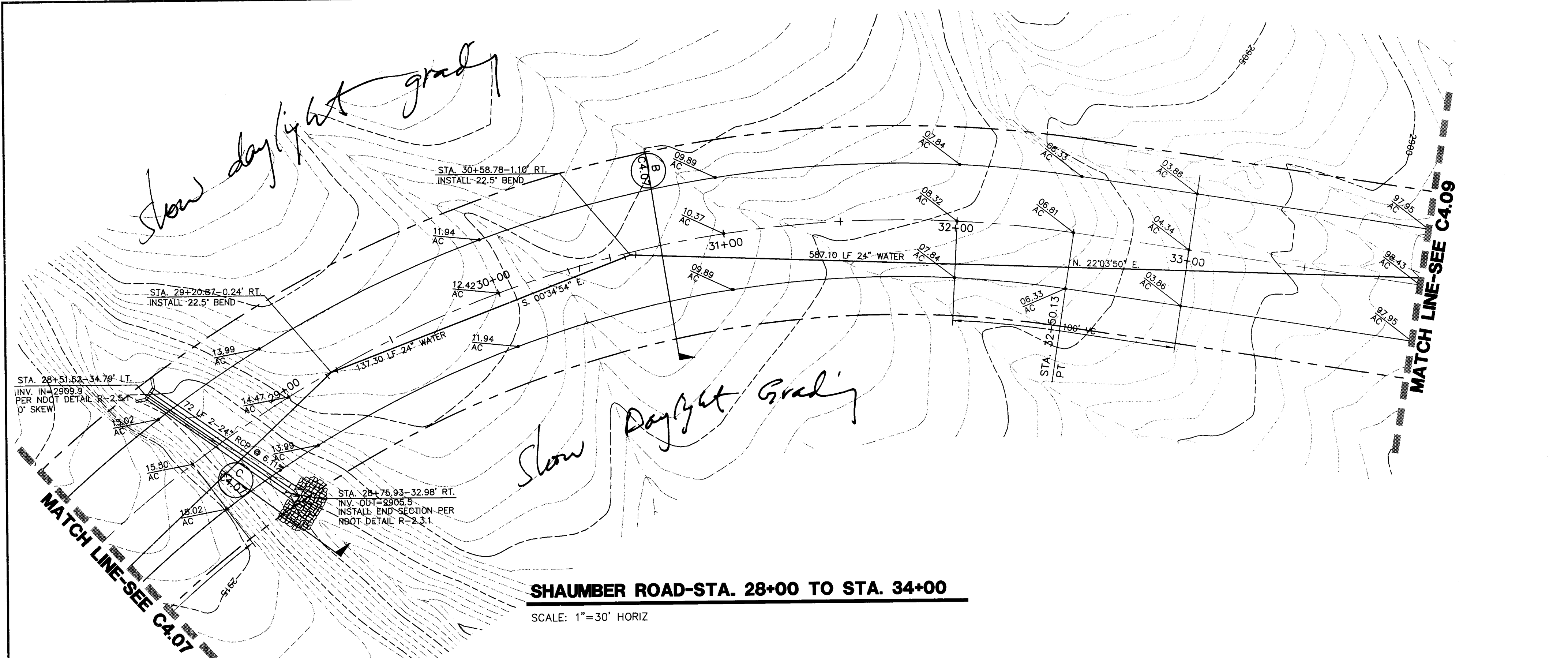
This grading plan is a part of drainage study #4511 which was received on 1/24/11 and rejected on 1/7/11. Page 20 of 26

BASIS OF BEARING

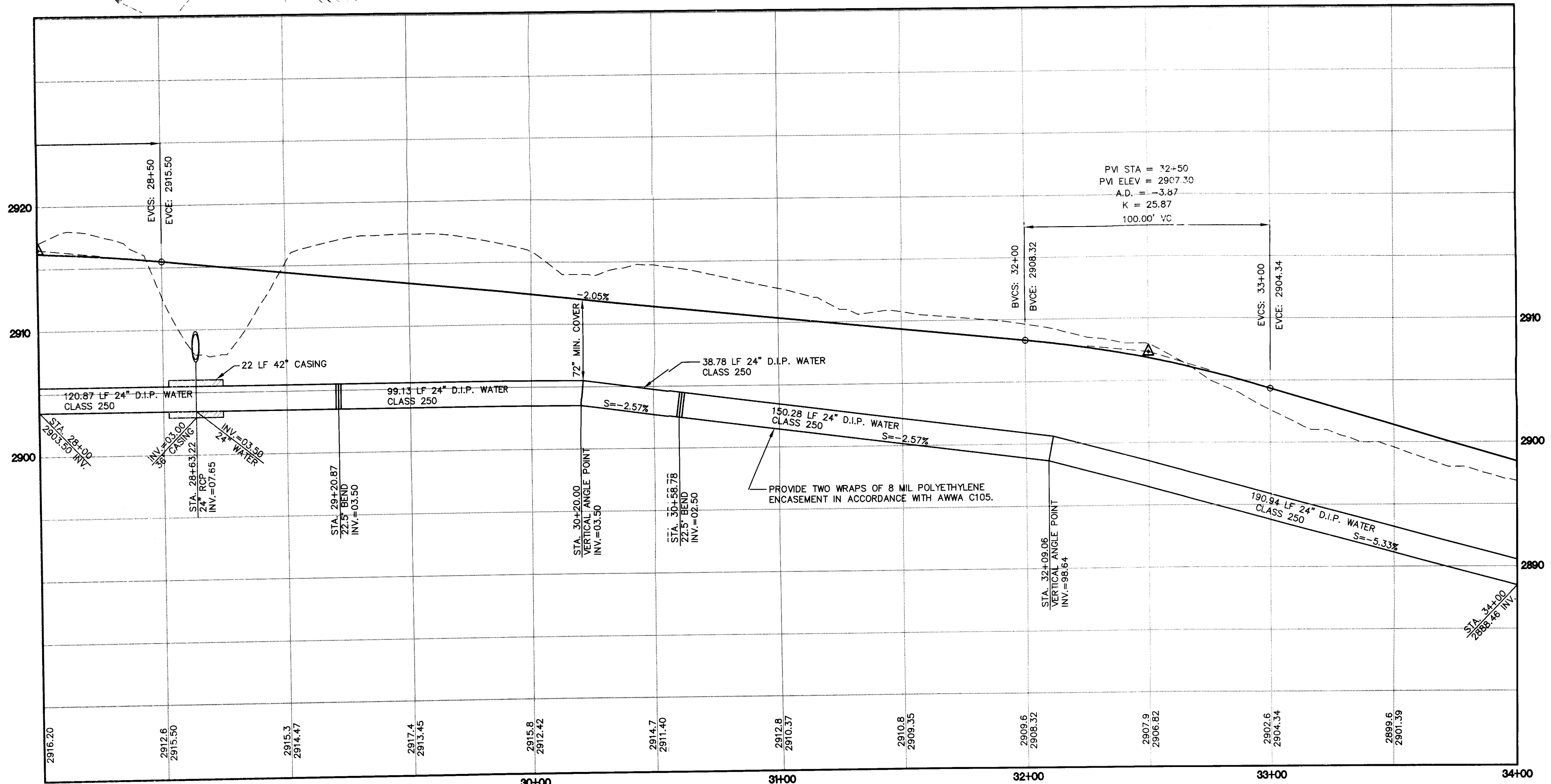
NORTH 0°00'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 36, TOWNSHIP 19 SOUTH, RANGE 99 EAST, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA RECORDS' OFFICE AS FILE 89, PAGE 3 OF SURVEYS.

BENCHMARK

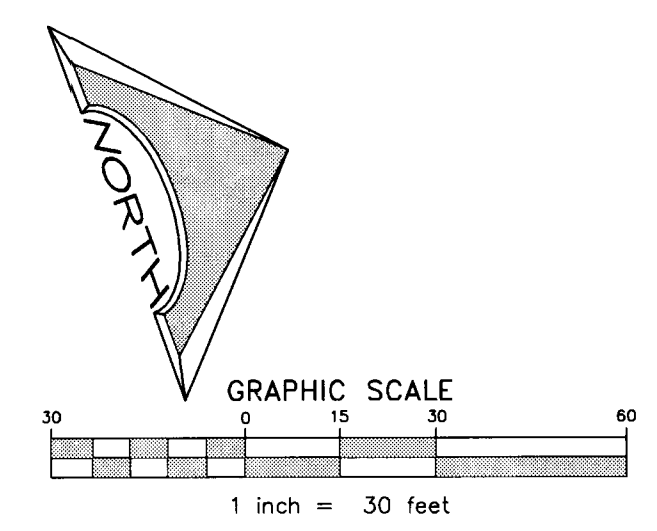
CITY OF LAS VEGAS BENCHMARK 5LV89 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM



SHAUMBER ROAD-STA. 28+00 TO STA. 34+00
SCALE: 1"=30' HORIZ



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



REVISIONS			
REV	DESCRIPTION	DATE	BY

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PROJECT NO. 1549
CCSD REVIEW
APPROVED BY
DATE
DATE DECEMBER 21, 2010
DRAWN BY
CHECKED BY
SUBMITTAL
PROJECT NO. 1549
PAGE NO. 08-816

L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road, Suite 200
Las Vegas, Nevada
(702) 798-2978
(702) 451-2266 FAX

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LAS VEGAS, NEVADA 89121

CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
PROJECT
4170 McLEOD DRIVE
LAS VEGAS, NEVADA 89121

PLAN AND PROFILE-SHAUMBER ROAD

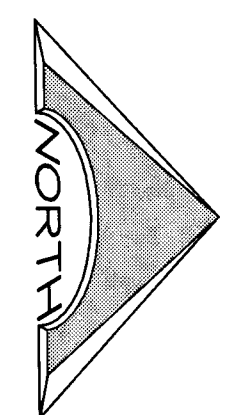
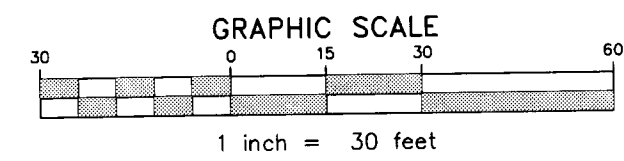
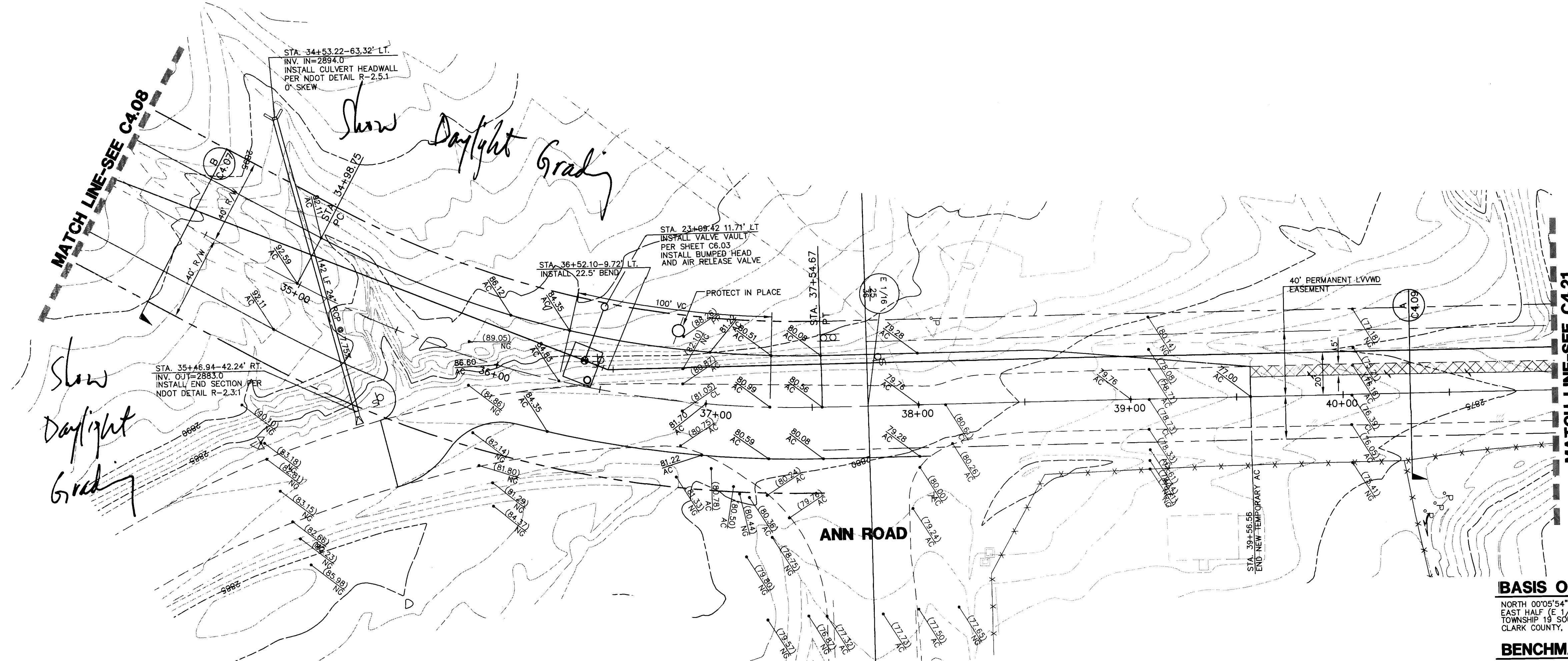
SHEET NO. **C4.08**
SHEET 34 OF 71
CLV#
HTE#

This grading plan is a part of drainage study # 4511 which was received on 1/24/11 and Rejected on 2/7/11. Page 21 of 26

WATER MAIN NOTE
DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600, "INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES," AND THE MANUFACTURER'S RECOMMENDATIONS.

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 ORF LAS VEGAS BENCHMARK SLV99 36N6
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE, RIDGE AND HAMMER LANE
ELEVATION = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM



SHAUMBER ROAD-STA. 34+00 TO STA. 41+00

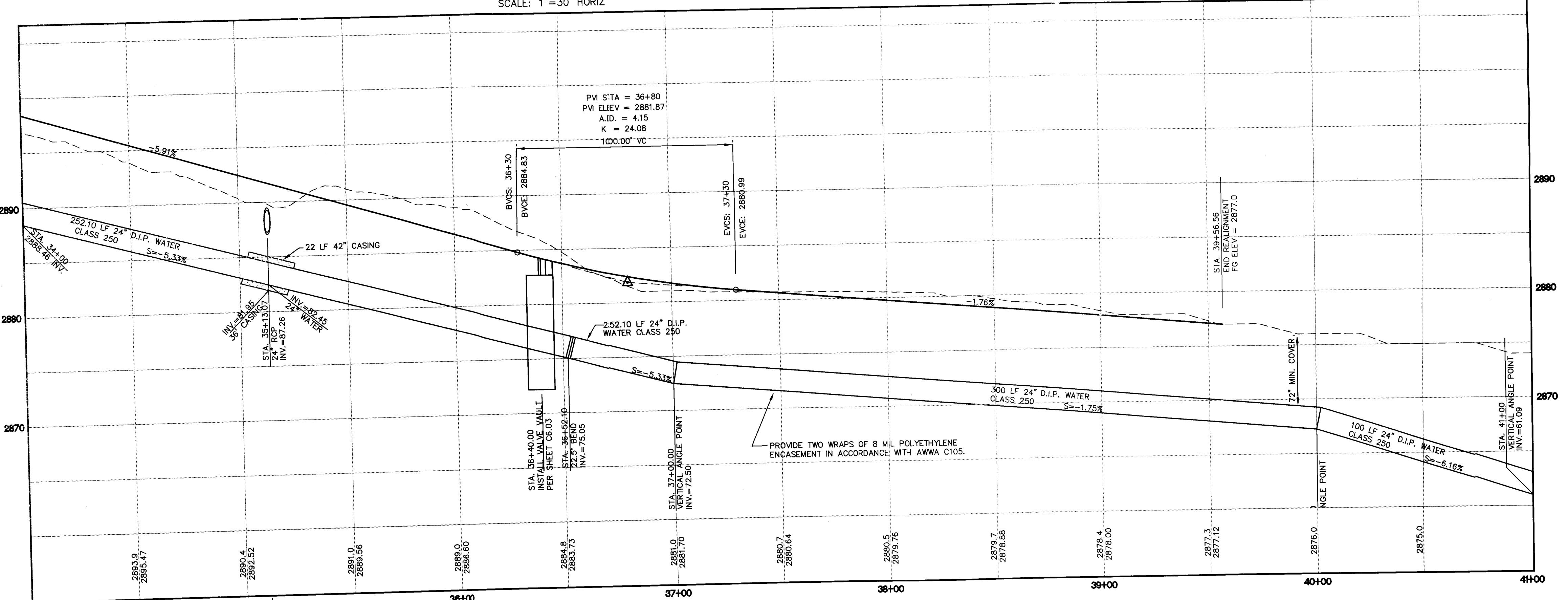
SCALE: 1"=30' HORIZ.

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 = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM

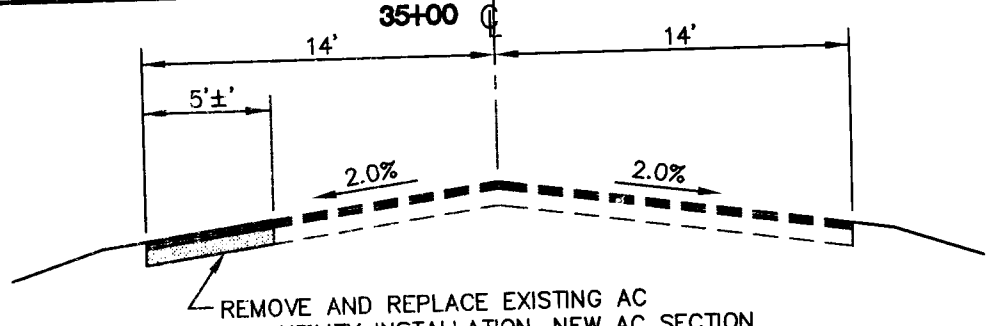


PROFILE

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

SHAUMBER ROAD

NOT TO SCALE



REMOVE AND REPLACE EXISTING AC FOR UTILITY INSTALLATION. NEW AC SECTION TO BE 5.5' AC OVER 6" TYPE II

W/WATER MAIN NOTE

DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600, "INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES," AND THE MANUFACTURER'S RECOMMENDATIONS.

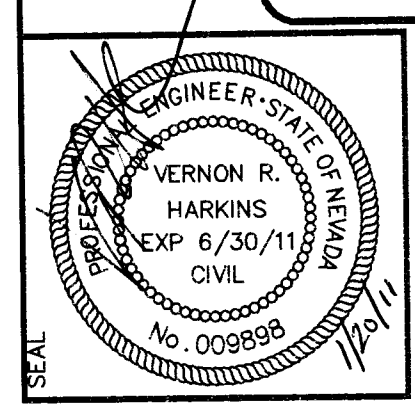
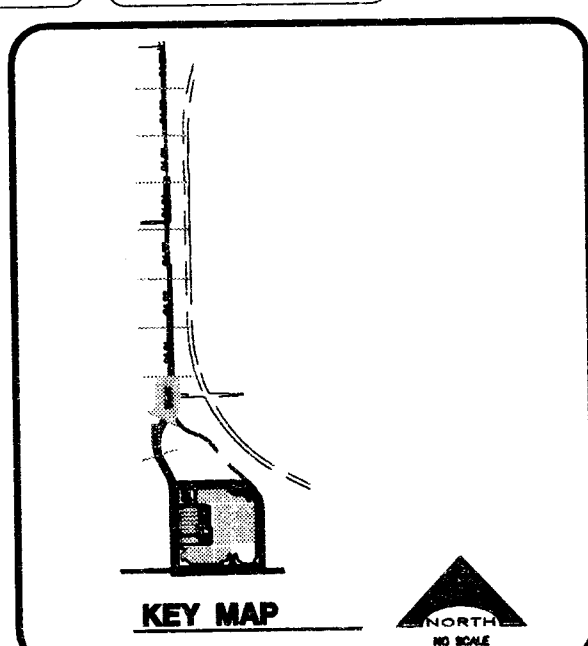
REVISIONS			
REV	DESCRIPTION	DATE	BY

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.

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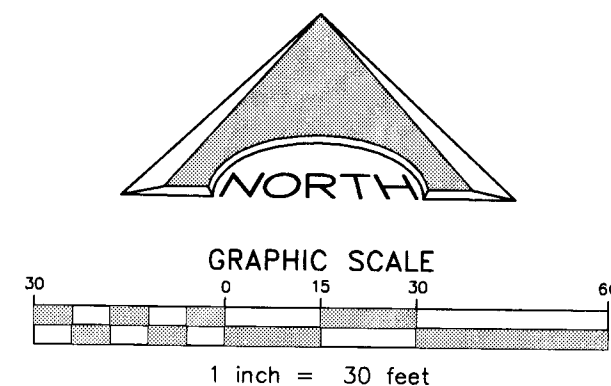
PROJECT NO.	1549
DESIGNED BY	DATE
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CHECKED BY	DATE
SUBMITTAL	DATE
PRE-BID SUBMITTAL	DATE
DATE	08-816

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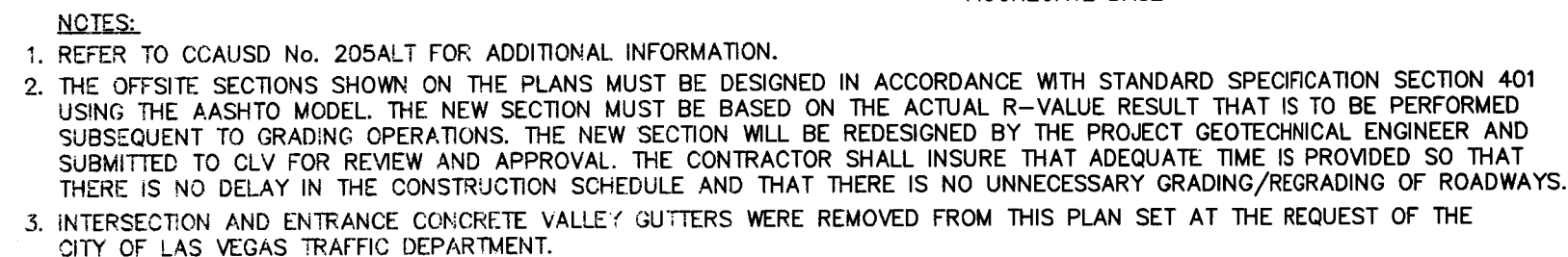
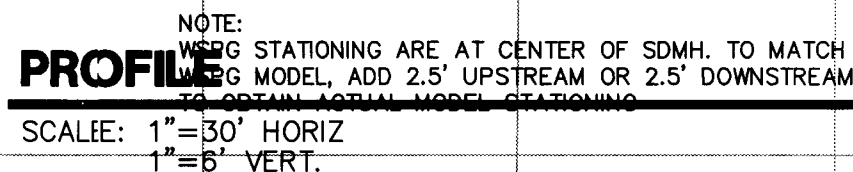
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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
PLAN AND PROFILE-SHAUMBER ROAD
SHEET NO. C4.09
SHEET 35 OF 71
CLV#
HTE#

This grading plan is a part of drainage study # 4511 which was received on 1/24/11 and rejected on 2/7/11. Page 22 of 26



SCALE: 1"=30' HORIZ



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

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.

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 = 2951.24 FEET (869.059 METERS) NAVD 1988 DATUM

- 1 CONSTRUCT TYPE 'L' CURB AND GUTTER PER C.C.A.U.S.D. NO. 216 OVER
6 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 PARKING STALL PER DETAIL 4 ON SHEET C6.01.
- 9 CONSTRUCT MODIFIED "L" CURB FROM BCR TO BCR PER DETAIL 11 SHEET C6.C
- 10 INSTALL 3' FLUME PER DETAIL 5 ON SHEET C6.01.
- 11 INSTALL 6' FLUME PER DETAIL 6 ON SHEET C6.01.

- (1) INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES 8"x8" TEE AND 6" GATE VALVE) PER UDACS PLATE NO. 40. PROVIDEW A MINIMUM 3' CLEARANCE AROUND HYDRANT.
- (2) SEE GENERAL CONSTRUCTION NOTE #16 ON SHEET C5.01
- (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. 40. 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 2-2" METERS PER UDACS PLATE NO. 7 (POTABLE).
- (7) INSTALL A 12" GATE VALVE PER UDACS PLATE NO. 30, 31 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 PIPE, BASED ON FINISH GRADE FOR ON-SITE WATERLINES. OFF-SITE PUBLIC UTILITY WATERLINES IN RIGHT-OF-WAY TO BE A MINIMUM 4.5' OF COVER BASED ON FINISH GRADE, REFER TO UDACS SECTION 2.07 FOR ADDITIONAL INFORMATION.
- (11) REFER TO MECHANICAL/ PLUMBING PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
- (12) INSTALL 2-2" RPPA PER UDACS PLATE NO. 8 (POTABLE).
- (13) INSTALL 2x4 MANIFOLD.
- (14) INSTALL 12"x6" TEE WITH 6" GATE VALVE W/THRUST BLOCK PER UDACS PLATE NO. 30, 31 AND 35.
- (15) INSTALL 8"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- (16) INSTALL 8"x6" TEE WITH 6" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- (17) INSTALL 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- (18) INSTALL 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 31.
- (19) INSTALL 11.25" BEND.
- (20) INSTALL 12"x8" REDUCER.
- (21) INSTALL 4"x4" TEE.
- (22) INSTALL 22.5" BEND.
- (23) INSTALL 8" CROSS PER UDACS PLATE 30 AND 31.
- (24) INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30, 31 AND 39.
- (25) INSTALL 4"x3" REDUCER.
- (26) INSTALL 12"x8" TEE PER UDACS PLATE NO. 30 AND 31.
- (27) INSTALL 8" CAP & 2" BLOWOFF PER UDACS PLATE NO. 36.
- (28) TRENCH SECTION PER UDACS PLATE NO. 17.

2 INSTALL A 48" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
 3 INSTALL A 60" TYPE I MANHOLE PER C.C.A.U.S.D. 403.
 4 INSTALL A 48" TYPE II MANHOLE PER C.C.A.U.S.D. 405.
 5 INSTALL A 60" TYPE III MANHOLE PER C.C.A.U.S.D. 406.
 6 INSTALL A CONCRETE CATCH BASIN PER C.C.A.U.S.D. 408.
 7 INSTALL A 10" TYPE "C" INLET PER C.C.A.U.S.D. 413.
 8 INSTALL A JENSEN PRECAST DI242448 CATCH BASIN.
 9 INSTALL A JENSEN PRECAST DI484872 CATCH BASIN.
 10 INSTALL A 10.75" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412.
 11 INSTALL A 11.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412.
 12 INSTALL A 13.75" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412.
 13 INSTALL A 15.25" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412.
 14 INSTALL A 19" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
 15 INSTALL A 4" TYPE "A" INLET PER C.C.A.U.S.D. 411.
 16 INSTALL AN RCP END SECTION PER NDOT DETAIL R-2.31.
 17 INSTALL A 5.5" MODIFIED TYPE "C" INLET PER C.C.A.U.S.D. 412A.
 18 ALL TYPE I WALLS SHALL BE 12" THICK UNLESS OTHERWISE NOTED.

[illegible]

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SAFETY SERVICES DEPARTMENT

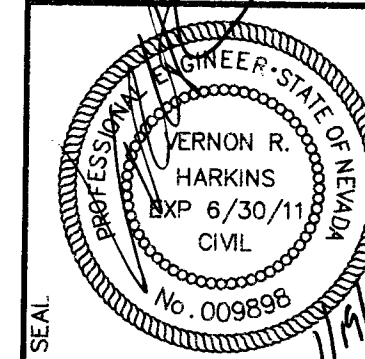
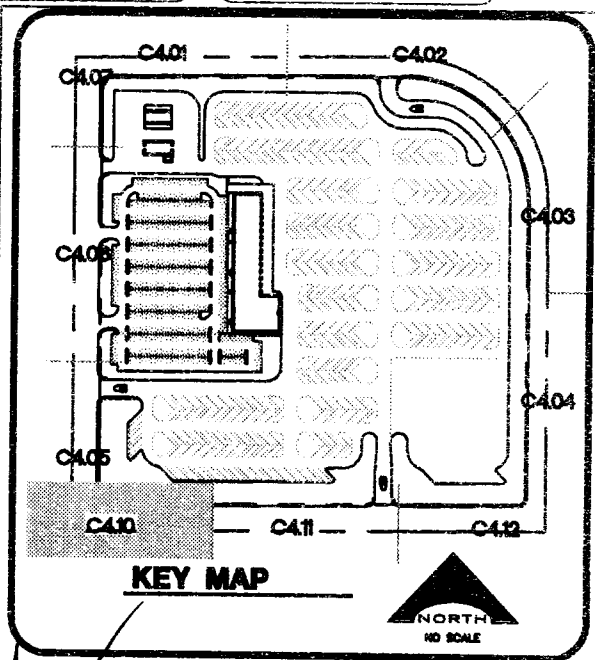
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TRAFFIC SIGNAL SYSTEMS AND
STREET LIGHT SYSTEM CONDUITS
IT'S COSTLY**

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YOU DO
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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

WING THE FACILITY

PLAN AND PROFILE--WASHBURN ROAD



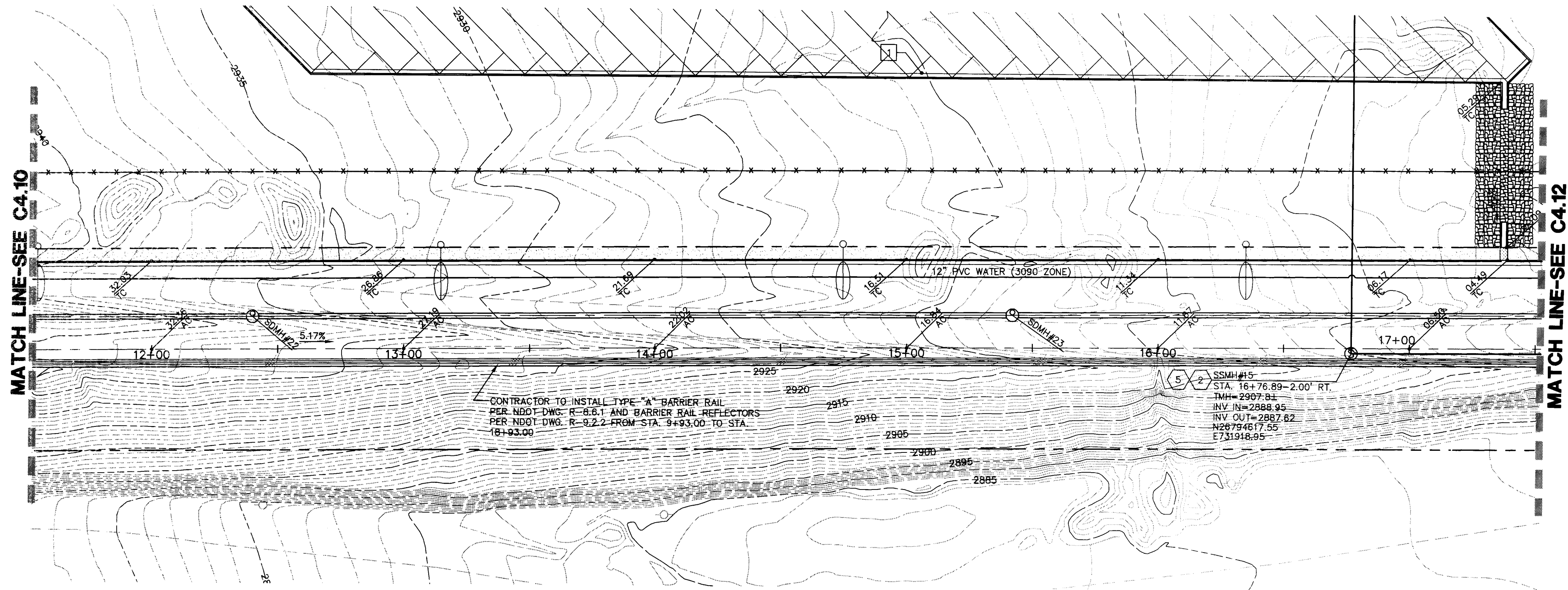
SHEET NO.

C4.10

SHEET 36 OF 71

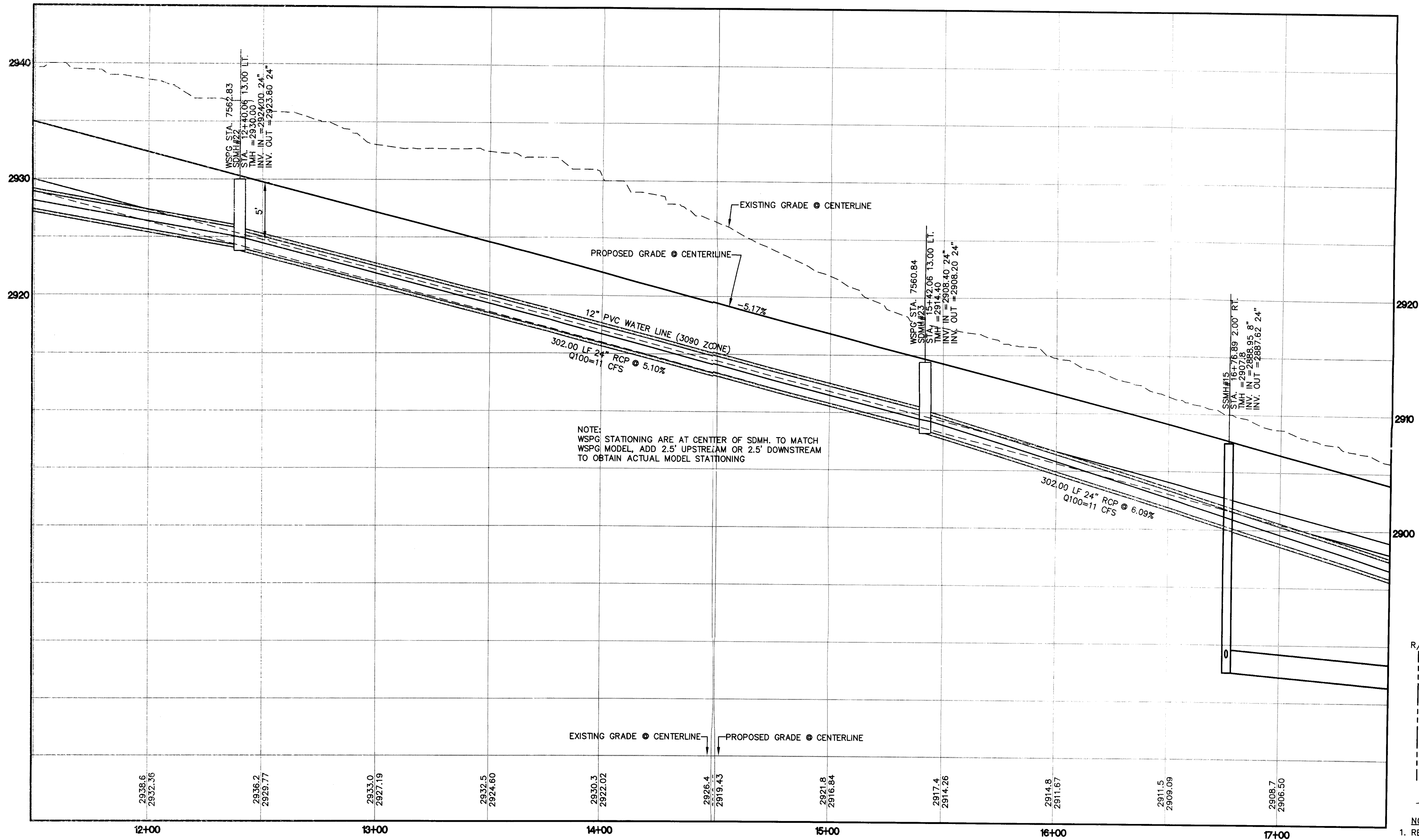
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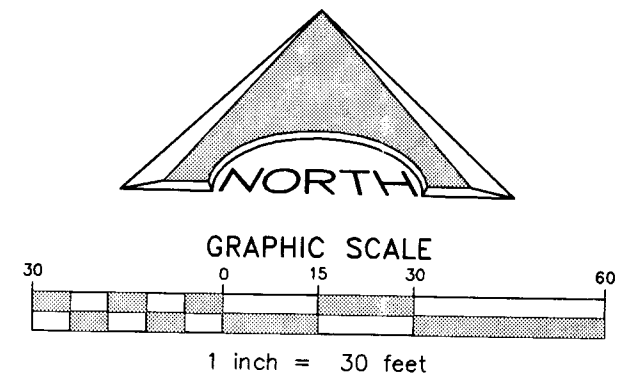
WASHBURN ROAD-STA. 11+50 TO STA. 17+50

SCALE: 1"=30' HORIZ



PROFILE

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



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.
7. INSTALL 30 LF OF WATER QUALITY C900 PVC.
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 C . H20 RATED.

CONSTRUCTION NOTES

1. SAWCUT EXISTING AC PAVEMENT AND REMOVE PER CCAUSD No. 500AT AND TRENCH PER CCAUSD No. 503 AND DCSWCS STANDARDS.
2. CONTRACTOR TO REPLACE ALL OBLITERATED STRIPING.
3. APPROXIMATE LIMITS OF SAWCUT.
4. REPLACE MEDIAN ISLAND PER CCAUSD DRAWING No. 218.
5. FINAL LIMITS OF TRENCH SECTION AND ROTOMILL TO BE DETERMINED BY CITY OF LAS VEGAS INSPECTOR.
6. CONTRACTOR TO RESORE DRAINAGE SWALE AND FLOWLINE UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
7. PROTECT IN PLACE.

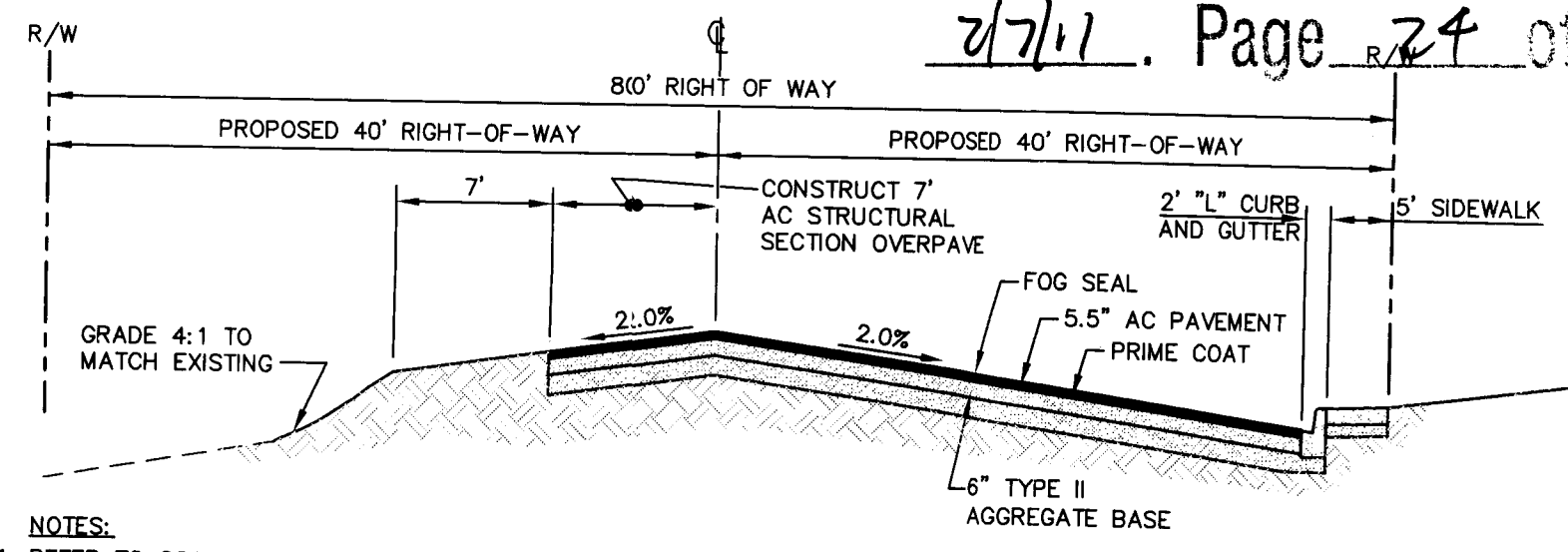
TRENCH SECTION ROTOMILL SECTION

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 = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM



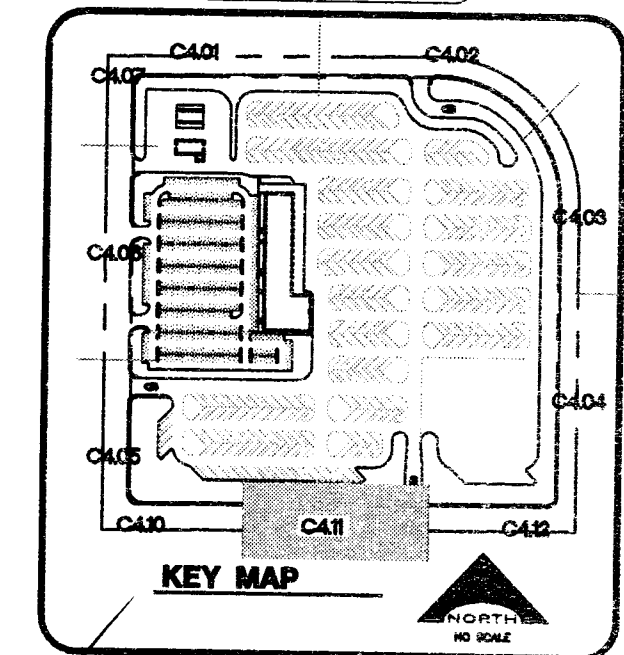
- NOTES:
1. REFER TO CCAUSD No. 205ALT FOR ADDITIONAL INFORMATION.
 2. THE OFFSITE SECTIONS SHOWN ON THE PLANS MUST BE DESIGNED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 USING THE AASHTO MODEL. THE NEW SECTION MUST BE BASED ON THE ACTUAL R-VALUE RESULT THAT IS TO BE PERFORMED SUBSEQUENT TO GRADING OPERATIONS. THE NEW SECTION WILL BE REDESIGNED BY THE PROJECT GEOTECHNICAL ENGINEER AND SUBMITTED TO CLV FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL INSURE THAT ADEQUATE TIME IS PROVIDED SO THAT THERE IS NO DELAY IN THE CONSTRUCTION SCHEDULE AND THAT THERE IS NO UNNECESSARY GRADING/REGRADE OF ROADWAYS.
 3. INTERSECTION AND ENTRANCE CONCRETE VALLEY GUTTERS WERE REMOVED FROM THIS PLAN SET AT THE REQUEST OF THE CITY OF LAS VEGAS TRAFFIC DEPARTMENT.

REVISIONS			
REV	DESCRIPTION	DATE	BY

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SEAL CLARK COUNTY SCHOOL DISTRICT ENGINEER-STATE OF NEVADA JERON R. HARKINS EXP. 6/30/11 CIVIL No. 009898	CCSD PROJECT NO. C409	DATE DECEMBER 21, 2010
	CCSD REVIEW	DRAWN BY
	APPROVED BY	CHECKED BY
	SUBMITTAL	PHOTO NO. 08-816

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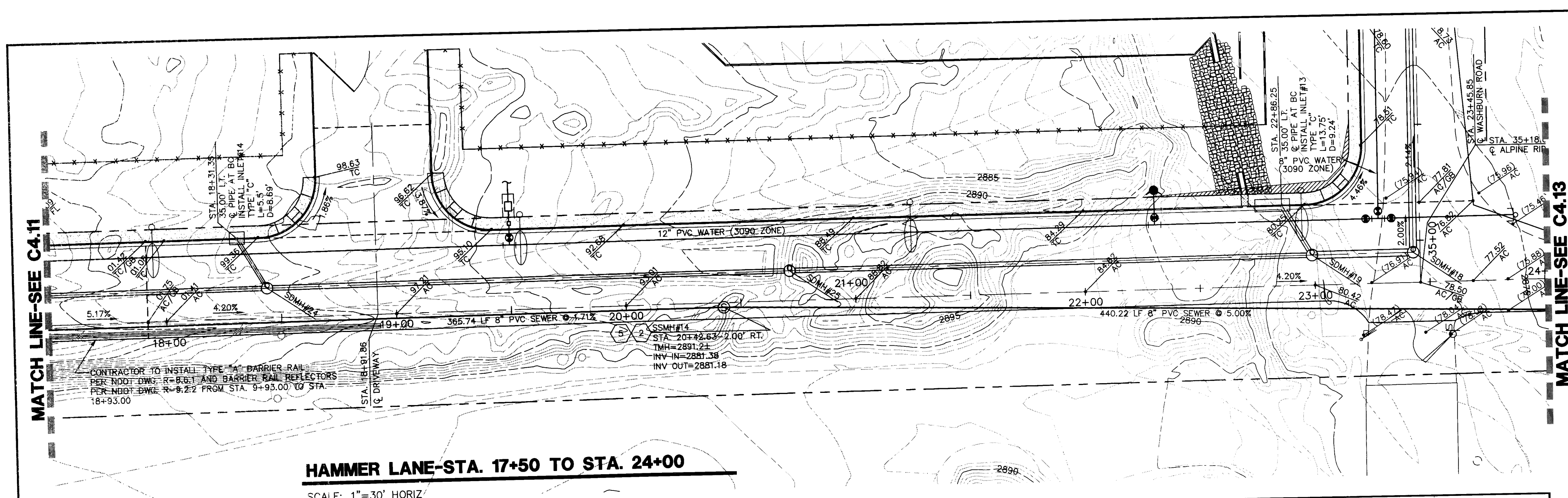
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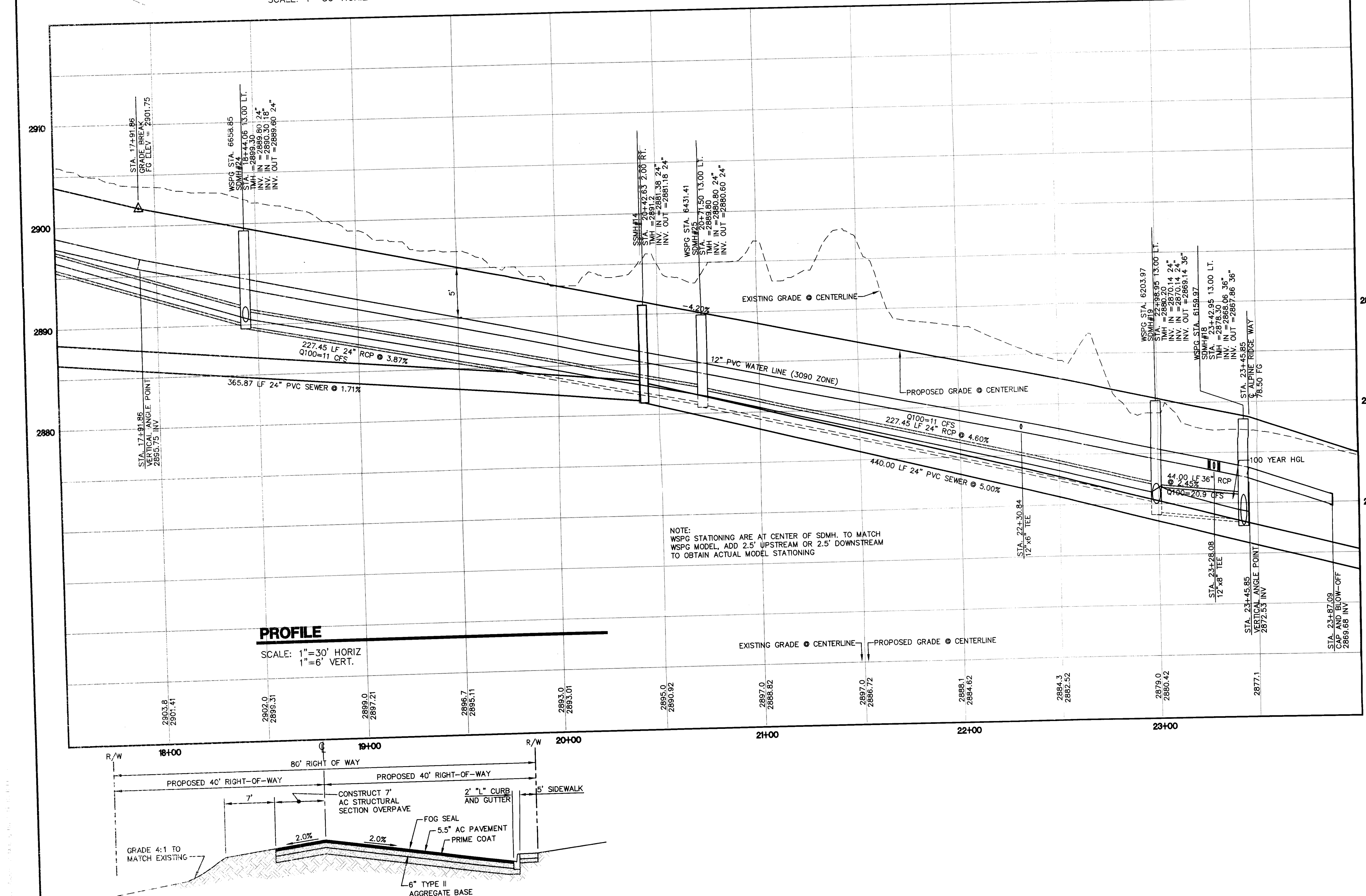
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
PROJECT

PLAN AND PROFILE-WASHBURN ROAD
DRAWING TITLE

SHEET NO.	C4.11
SHEET 37 OF 71	
CLV#	
HTE#	



HAMMER LANE-STA. 17+50 TO STA. 24+00
SCALE: 1"=30' HORIZ



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

- NOTES:
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- INSTALL A CONCRETE COLLAR PER DCSWCS DRAWING No. SD-4.
- TRENCH SECTION PER DCSWCS DRAWING No. SD-18.
- INSTALL NEW SANITARY SEWER MAIN UNDER EXISTING WATER LATERAL PER DCSWCS DRAWING No. SD-21.
- INSTALL A STANDARD 72" PRECAST MANHOLE PER DCSWCS DRAWING No. SD-1A AND SD-1B.
- INSTALL A LOCKING MANHOLE COVER PER DCSWCS DRAWING No. SD-18.
- INSTALL 30 LF OF WATER QUALITY C900 PVC.
- 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.
- INSTALL A SPECIAL MANHOLE PER DETAIL ON SHEET C . H20 RATED.

CONSTRUCTION NOTES

- SAWCUT EXISTING AC PAVEMENT AND REMOVE PER CCAUSD No. 500AT AND TRENCH PER CCAUSD No. 503 AND DCSWCS STANDARDS.
- CONTRACTOR TO REPLACE ALL OBLITERATED STRIPING.
- APPROXIMATE LIMITS OF SAWCUT.
- REPLACE MEDIAN ISLAND PER CCAUSD DRAWING No. 218.
- FINAL LIMITS OF TRENCH SECTION AND ROTOMILL TO BE DETERMINED BY CITY OF LAS VEGAS INSPECTOR.
- CONTRACTOR TO RESORE DRAINAGE SWALE AND FLOWLINE UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
- PROTECT IN PLACE.

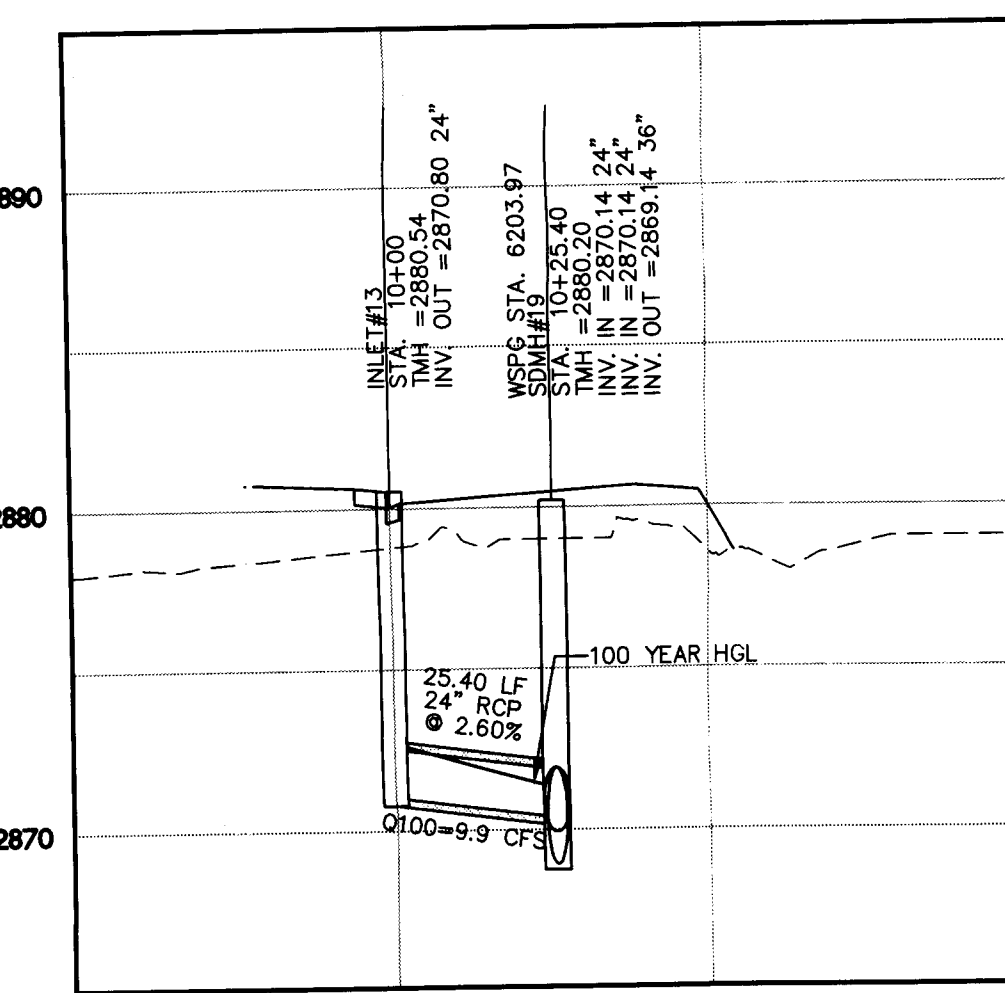
TRENCH SECTION
 ROTOMILL SECTION

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.

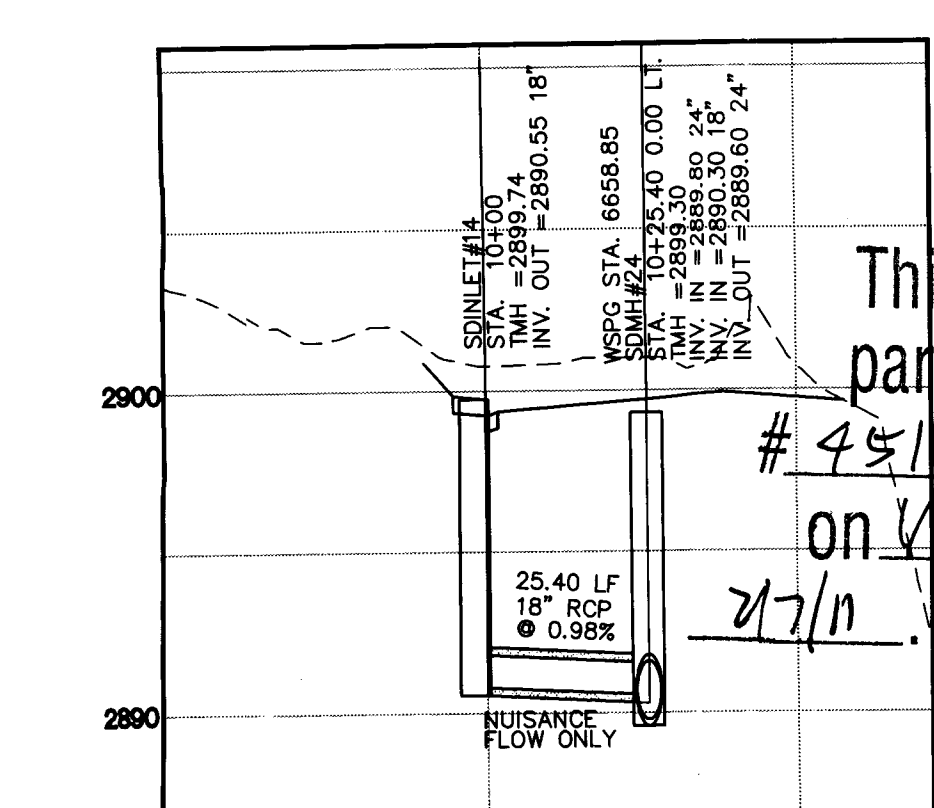
BENCHMARK

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 = 2951.24 FEET (899.059 METERS) NAVD 1988 DATUM



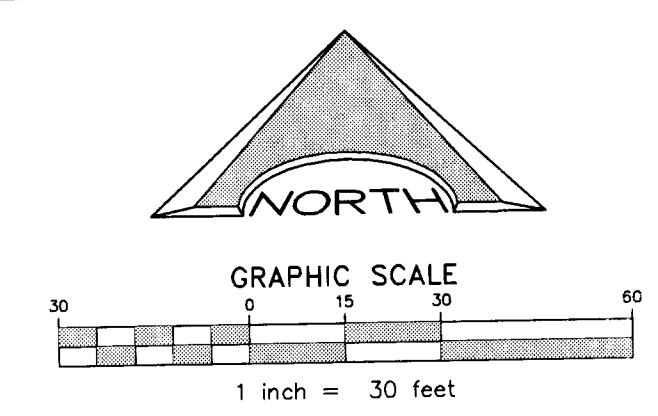
LATERAL AT SDMH#19

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



LATERAL AT SDMH#24

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



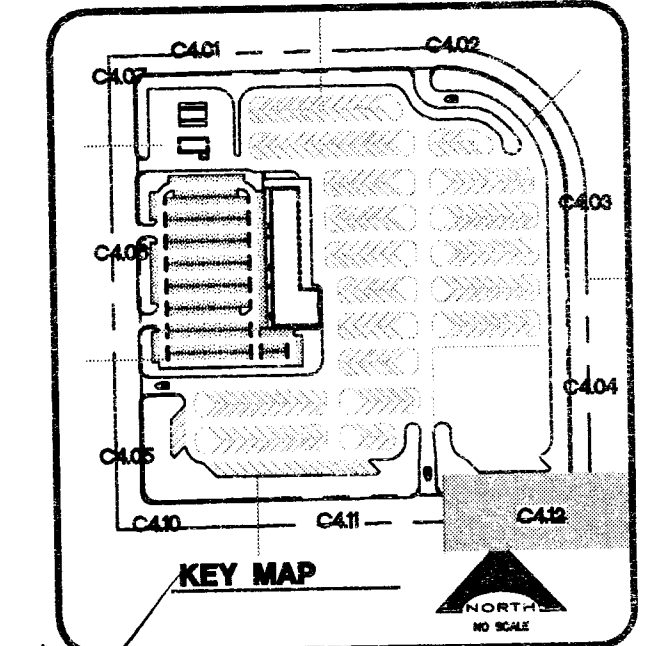
REVISIONS			
REV	DESCRIPTION	DATE	BY

DISCLAIMER NOTE

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

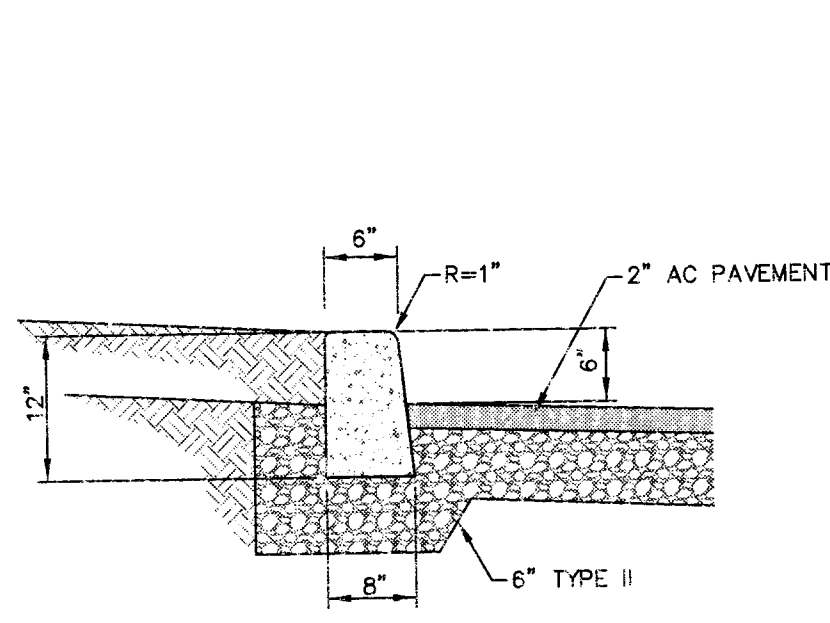


PROJECT NO. 1549
 CADD REVIEW
 APPROVED BY
 DATE
 DRAWN BY
 CHECKED BY
 SUBMITTAL
 PREPARED BY
 08-816

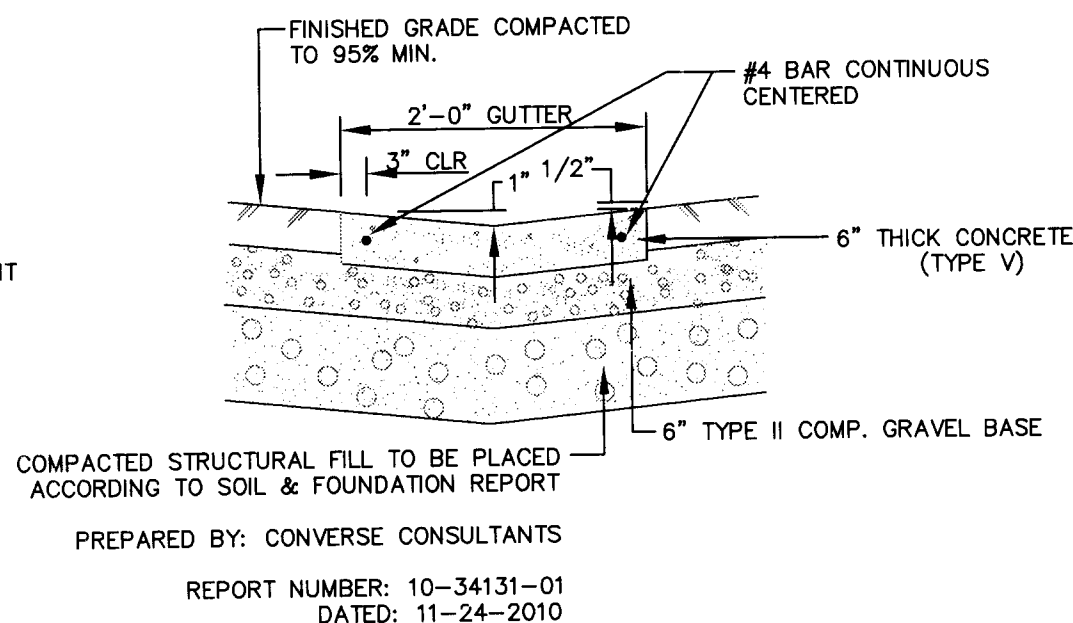
L. R. NELSON CONSULTING ENGINEERS, INC.
 635 West Nevada
 Las Vegas, NV 89101
 (702) 798-7978
 (702) 451-2296 FAX
 -STRUCTURAL
 -SURVEY
 -PLANNING

CLARK COUNTY SCHOOL DISTRICT
 DESIGN MANAGEMENT / PLANNING AND DESIGN
 LAS VEGAS, NEVADA 89121
 4170 McLEOD DRIVE
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
 PROJECT
C4.12
 SHEET 38 OF 71
 CLV#
 HTE#

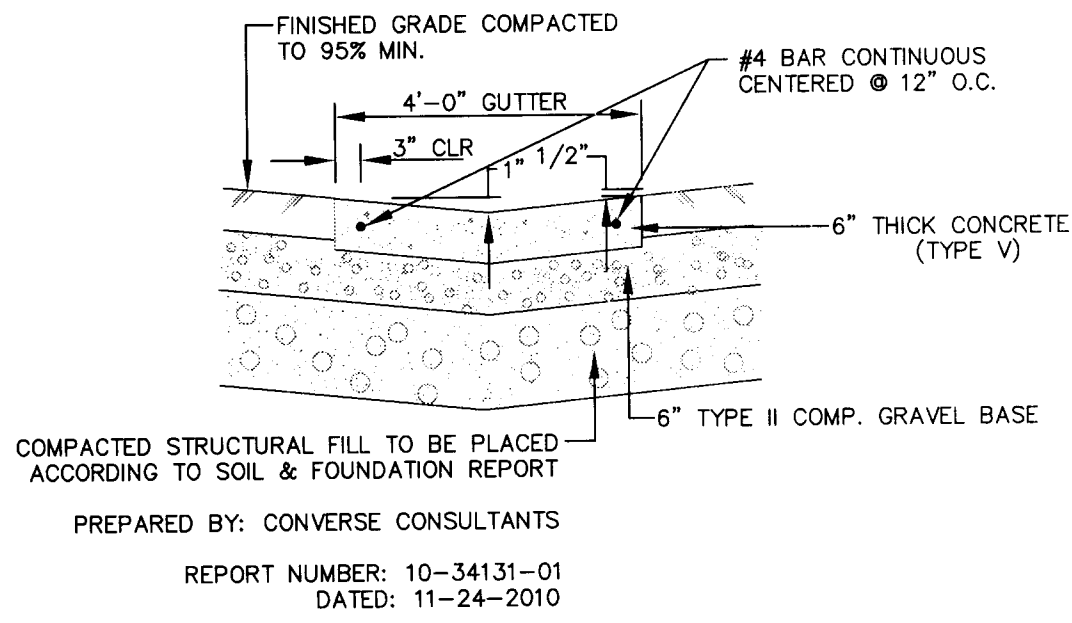
This grading plan is part of drainage study #4511 which was received on 1/27/11 and rejected on 2/7/11. Page 25 of 26.



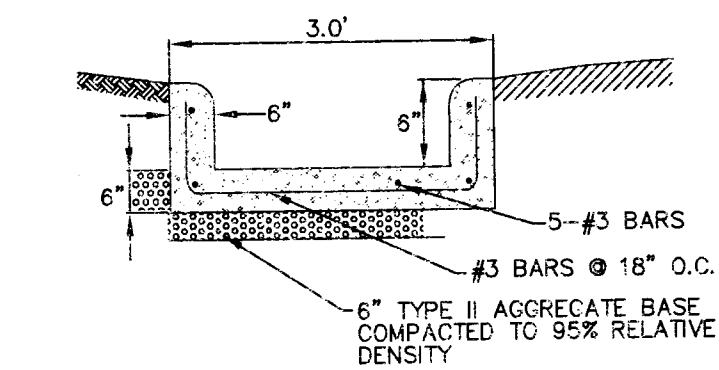
1 ON-SITE 6" "A" TYPE CURB
C6.01 N.T.S.



2 2' CONCRETE VALLEY GUTTER
C6.01 N.T.S.

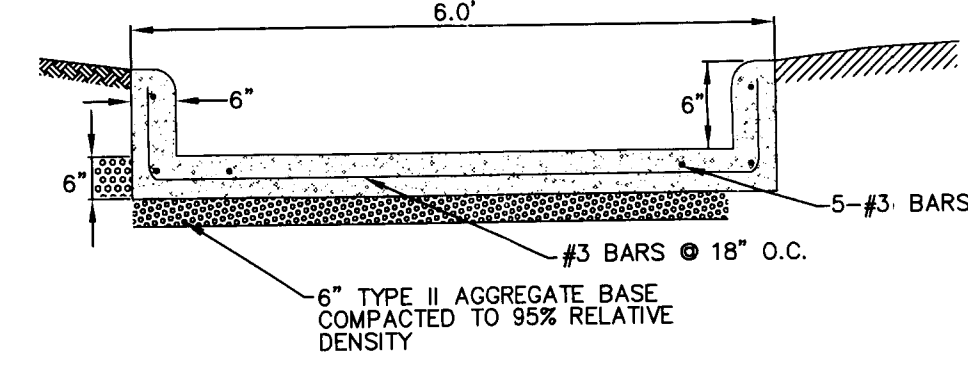


3 ON-SITE 4' CONCRETE VALLEY GUTTER
C6.01 N.T.S.



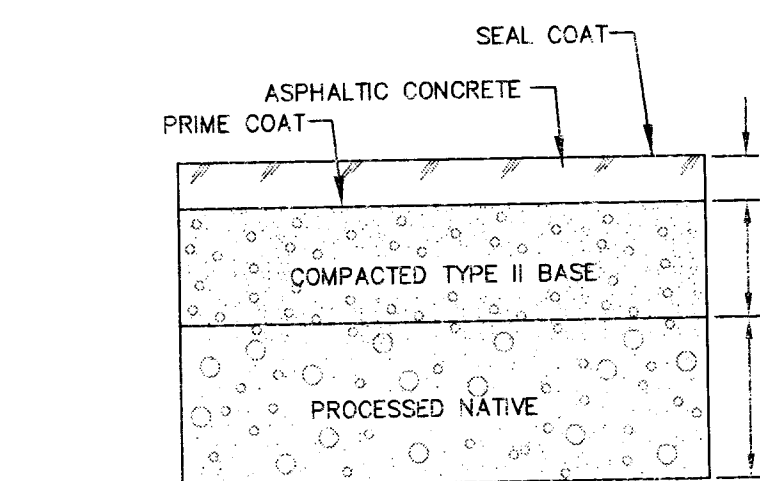
NOTE:
THIS SECTION IS FOR GENERAL REFERENCE ONLY.
AND CONSTITUTES MIN. THICKNESS, ALL INFORMATION WAS OBTAINED FROM GEOTECHNICAL EXPLORATION REPORT:
PREPARED BY: CONVERSE CONSULTANTS
REPORT NUMBER: 10-34131-01
DATED: 11-24-2010
REFER TO REPORT FOR ADDITIONAL COMPACTION PLACEMENT AND COMPACTION REQUIREMENTS

5 3' CONCRETE FLUME
C6.01 N.T.S.



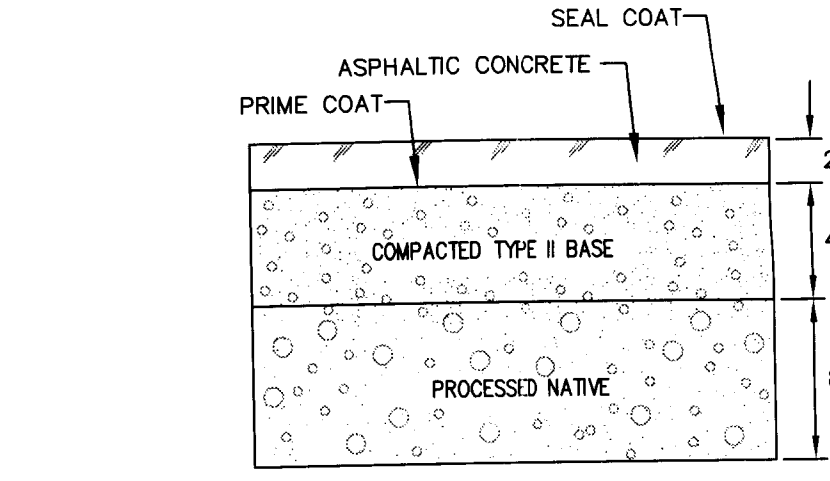
NOTE:
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6 6' CONCRETE FLUME
C6.01 N.T.S.



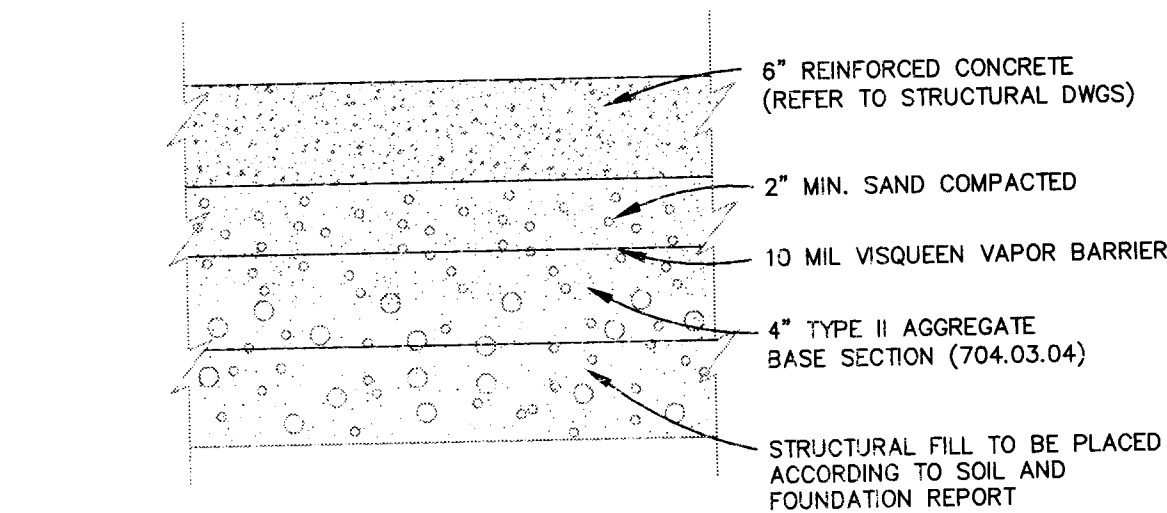
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8 ON-SITE HEAVY TRAFFIC A.C. PAVEMENT DETAIL
C6.01 N.T.S.



NOTE:
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AND CONSTITUTES MIN. THICKNESS, ALL INFORMATION WAS OBTAINED FROM GEOTECHNICAL EXPLORATION REPORT:
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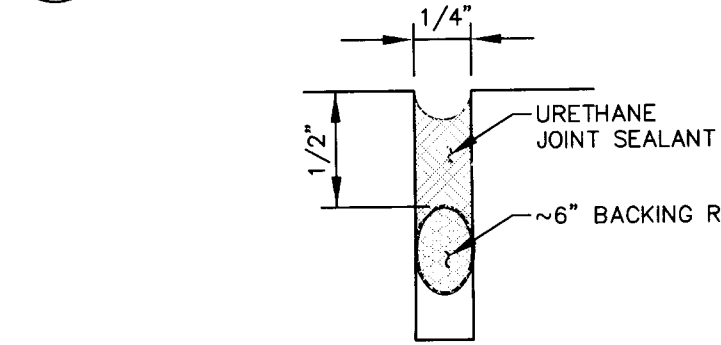
9 ON-SITE AUTO PARKING PAVEMENT DETAIL
C6.01 N.T.S.



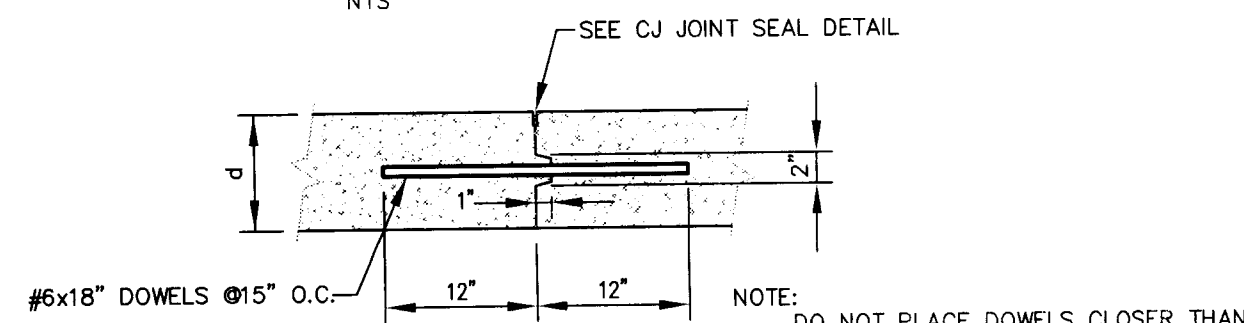
NOTE:
CONTRACTOR TO ALSO REFER TO STRUCTURAL PLANS
THIS SECTION IS FOR GENERAL REFERENCE ONLY.
SOILS ENGINEERS REPORT TO DICTATE BUILDING PAD SECTION.

10 BUILDING PAD SECTION
C6.01 N.T.S.

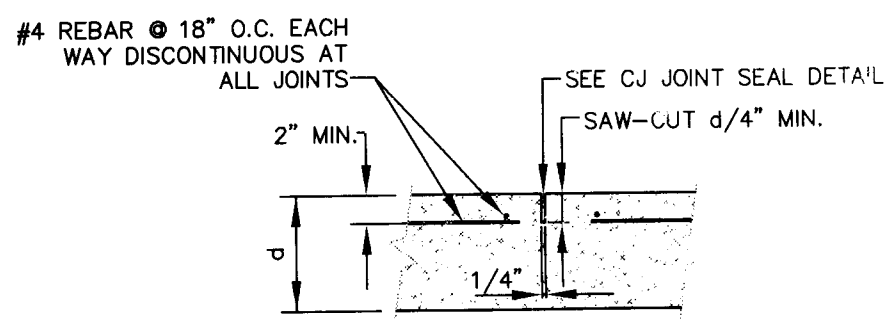
11 MODIFIED "L" CURB
C6.01 N.T.S.



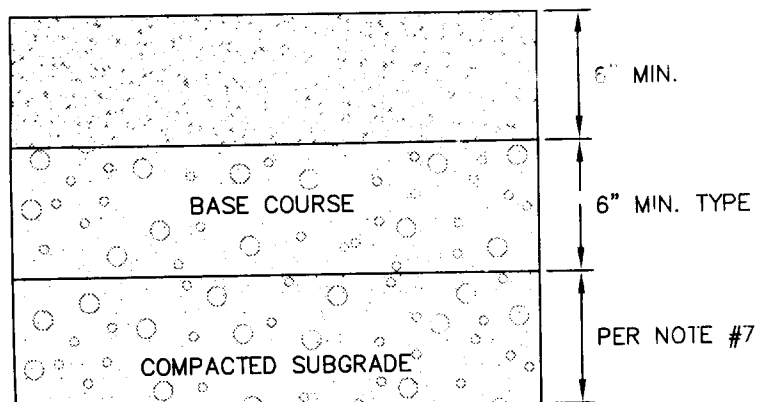
CJ JOINT SEAL DETAIL
N.T.S.



DOWELED CONSTRUCTION JOINT
N.T.S.



CONTROL JOINT W/ REINFORCEMENT
N.T.S.

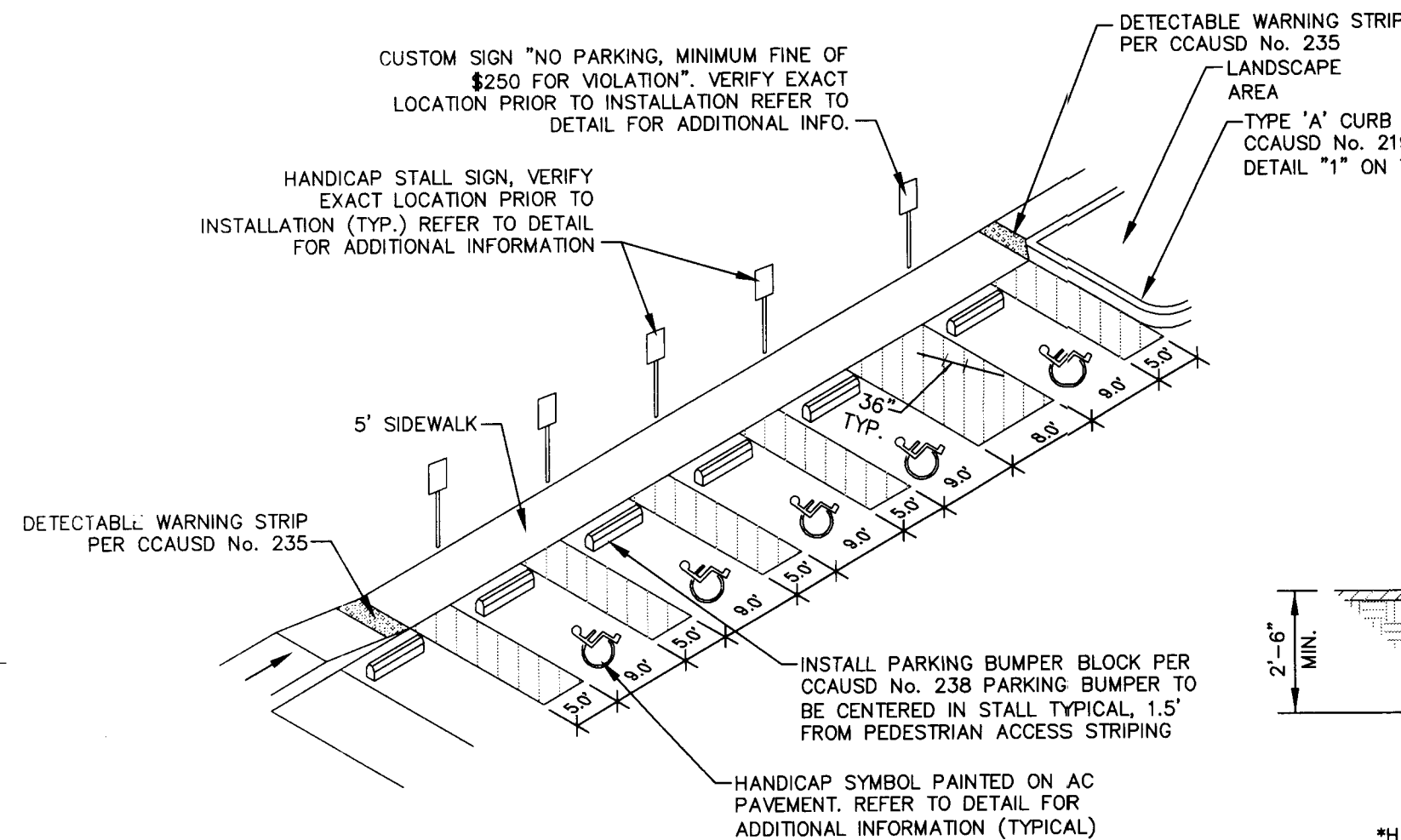


SERVICE YARD AREA
* REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR PLACEMENT OF SUBGRADE AND CONCRETE SECTION

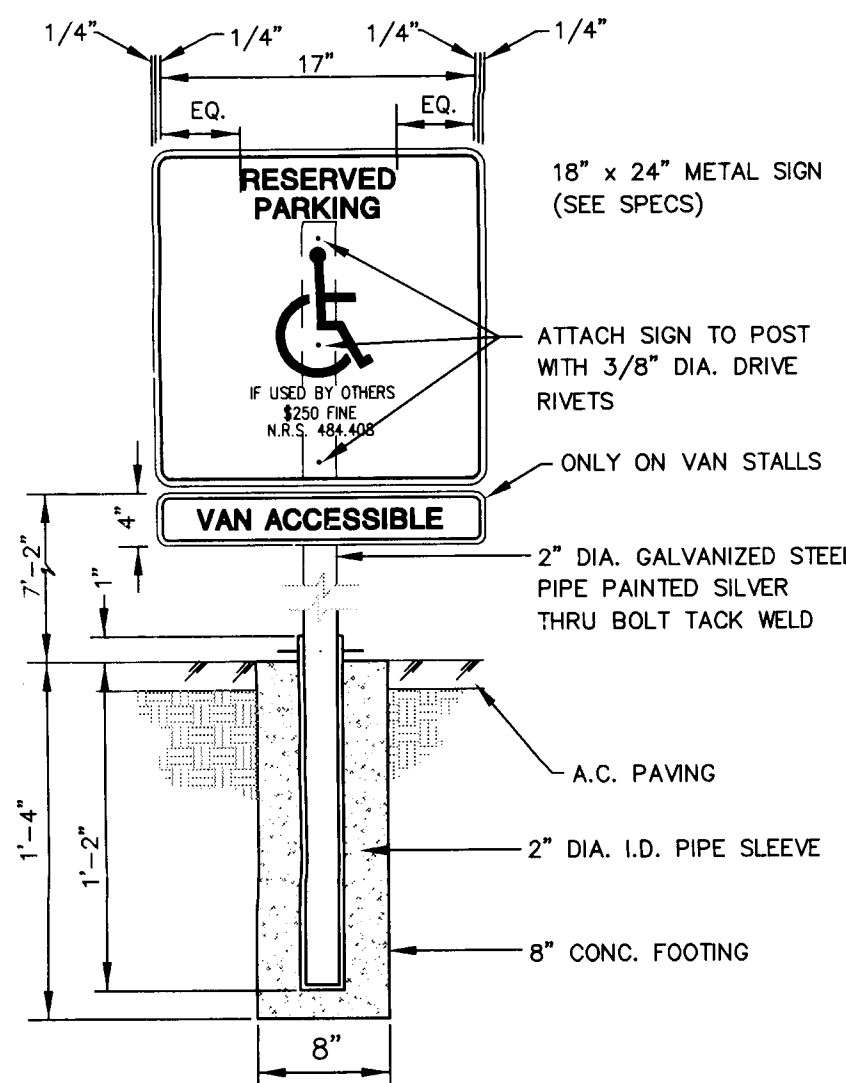
NOTE:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $f'_c=4500$ PSI, SHALL USE TYPE V CEMENT AND SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO $W/C=0.45$
2. FINE COURSE AGGREGATE SHALL COMPLY WITH GRADING UNITS OF USS SECTION 409 AND MATERIAL REQUIREMENTS OF USS SECTION 706
3. COURSE AGGREGATE MAXIMUM SIZE OF 1 1/2"
4. MAXIMUM SLUMP SHALL NOT EXCEED 4"
5. NO ADMIXTURES EXCEPT ENTRAINMENT AIR AND AS APPROVED BY EOR.
6. PROVIDE SAWCUT OR CONSTRUCTION JOINT AT MAXIMUM SPACING OF 15'-0" IN TWO ORTHOGONAL DIRECTION
7. SOIL AND FOUNDATION REPORT
PREPARED BY: CONVERSE CONSULTANTS
REPORT NUMBER: 10-34131-01
DATED: 11-24-2010

REFER TO REPORT FOR ADDITIONAL COMPACTION PLACEMENT AND COMPACTION REQUIREMENTS

7 CONCRETE PAVEMENT DETAILS
C6.01 N.T.S.

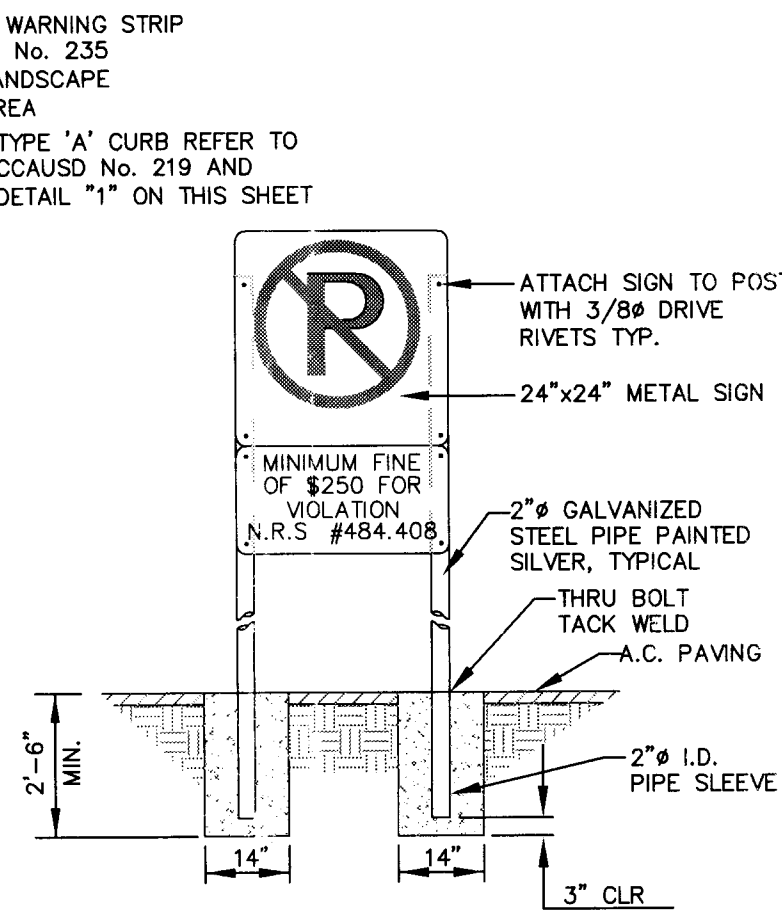


ON-SITE HANDICAP PARKING STALLS
N.T.S.

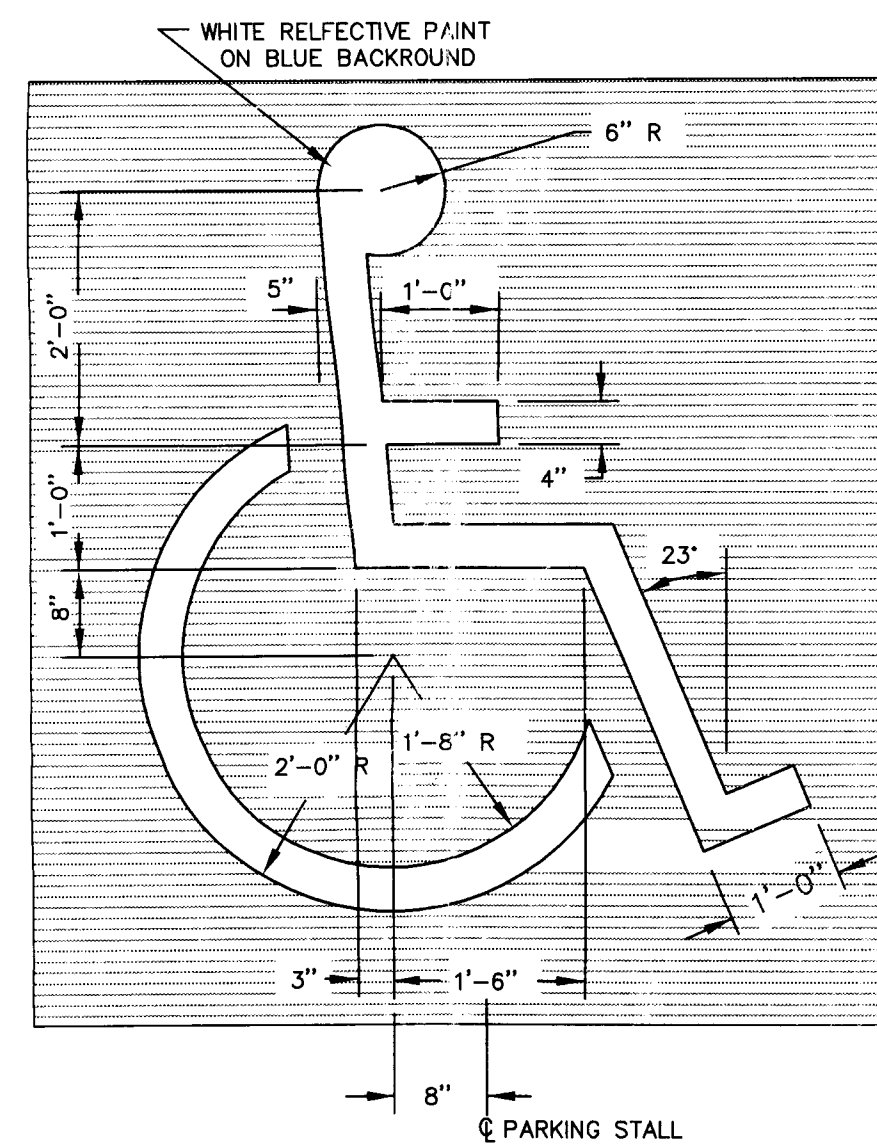


ACCESSIBLE PARKING SIGN
N.T.S.

4 HANDICAP PARKING AREA DETAILS
C6.01 N.T.S.



NO PARKING SIGN
N.T.S.



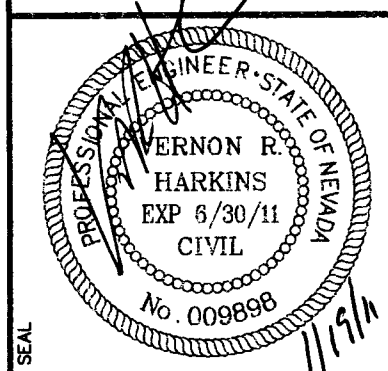
PAINTED HANDICAP SYMBOL
N.T.S.

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



L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
(702) 491-2286 FAX

KGA ARCHITECTURE
9075 West Diablo Drive, Third Floor
Las Vegas, Nevada 89148
702.367.6900
www.KGAarchitecture.com

PROJECT NO. 15459
CADD REVIEW
APPROVED BY
DATE
DECEMBER 21, 2010
DRAWN BY
CHECKED BY
SUBMITTAL
REVISED SUBMITTAL
REVISED SUBMITTAL

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
LAS VEGAS, NEVADA 89121
4170 McLEOD DRIVE
CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
DETAILS
SHEET NO. C6.01
SHEET 66 OF 71
CLV#
HTE#

This grading plan is a part of drainage study #4511 which was received on 1/24/11 and rejected on 2/7/11. Page 26 of 26