

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623.6.03.01 OF THE USS.
4. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623.6.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
8. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
9. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 28, 2016 (LD VERSION)

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES 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 CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED TO FILL EXISTING 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 GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPACTION
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

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
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 IMMEDIATELY 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, BERM, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

CITY OF LAS VEGAS 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 AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) 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 COLLARS. STREETS LESS THAN EIGHTY (80) FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12) DIAMETER. CONNECTIONS TO FIFTEEN INCH (15) OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12) OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD 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 THAT WILL 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 TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION 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 C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE & RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE & RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND THE 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. [IFC § 3310, § 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED A.W.M.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]

RESIDENTIAL - 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
COMMERCIAL - 300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) 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 FT ON AN ALTERNATING BASIS. [IFC § C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [IFC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 INCH. [IFC § 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LINES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [IFC § 503.2.1.1]
24. FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FT IN HEIGHT, OR EXCEEDING 62,000 SQ FT IN AREA. [IFC § 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR GEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
28. ELECTRONICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

- EFFECTIVE DATE 03-01-2016
- ### DEVIATIONS FROM STANDARDS
- NONE.

CITY OF LAS VEGAS GENERAL NOTES

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 DRAWINGS 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 CLARK COUNTY ENGINEERING DIVISION, THE CLARK COUNTY CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM CITY STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD 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 CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL UNDERGROUND UTILITIES AND ALL INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE 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 STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS, MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER CONSTRUCTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FLOW 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 QUADRANT 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 NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, - REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT 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 DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

- WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS 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 PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
 18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
 19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MOUT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
 20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BAILS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
 21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITIONS STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED COORDINATES WHICH SHALL BE BASED ON THE HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTANTIES OF +/- 0.08 METER (+/- 0.3 FEET) HORIZONTAL AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
 22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
 23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/15

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES:

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.

ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE NOTES SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW.

CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANBY
WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS
LINES 48 HOURS PRIOR TO CONSTRUCTION.

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL 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 ADVANCE 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 ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING OF THE STREET, 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 VP CLASS 8 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1150 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-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 STOPS 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 INSURE 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 RIGHT 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 INTERFERES OR GREATLY AFFECTS A BUS STOP OR HAVING 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 (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL FEES FOR THE USE OF THESE OFFICERS SHALL BE SET 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 OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR THE PERMANENT TRAFFIC CONTROL DEVICES TO BE INSTALLED. THE CONTRACTOR SHALL PROVIDE PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION. THE DRAWING SHALL INCLUDE THE 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

LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT # 126020

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO THE LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD COMMUNICATIONS. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH U.D.A.C.S. SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJUTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE REPAIR OF ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT No. 126020
DATE: 6/11/18

QUANTITY ESTIMATE

DESCRIPTION	PUBLIC QUANTITY	PRIVATE QUANTITY
3-INCH ASPHALTIC CONCRETE PAVING	SY	2750 SY
4-INCH ASPHALTIC CONCRETE PAVING	80 SY	656 SY
TYPE II GRAVEL	14 CY	575 CY
SAW CUT, TRENCH AND BACKFILL	120 CY	275 CY
CURB & GUTTER "L" CURB	29 LF	200 LF
CURB & GUTTER "A" CURB	LF	1133 LF
SIDEWALK UNDERDRAIN	1 EA	EA
CROSS GUTTER	1220 SF	SF
BUMPER BLOCKS	EA	28 EA
4-INCH CONCRETE SIDEWALK	430 SF	SF
5.5-INCH CONCRETE SIDEWALK	SF	4327 SF
12" STORM DRAIN	LF	28 LF
18" STORM DRAIN	LF	103 LF
2X2' JENSEN DROP INLET	EA	1 EA
6-INCH SEWER	LF	178 LF
8-INCH SEWER	LF	43 LF
2-INCH WATER MAIN	62 LF	LF
3-INCH WATER MAIN	LF	291 LF
6-INCH WATER MAIN	LF	63 LF
8-INCH WATER MAIN	45 LF	127 LF
10-INCH WATER MAIN	LF	421 LF
8" RPA	1 EA	EA
FIRE HYDRANT ASSEMBLY	EA	1 EA
2" WATER METER	2 EA	EA
2" RPA	2 EA	EA
8" X 6" TEE	1 EA	EA
8" GATE VALVE	3 EA	EA
10" 90° BEND	EA	3 EA
8" 90° BEND	EA	3 EA
CURB STOP	2 EA	EA
10" X 6" REDUCER	EA	1 EA
10" X 8" REDUCER	EA	1 EA
8" X 6" REDUCER	EA	1 EA
STREET/STOP SIGNS	5 EA	EA

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

STORMWATER MANAGEMENT NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, ANY PUBLIC RIGHT OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE, OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS THE FOLLOWING: (1) WHEN A DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORMWATER EVENT. SEDIMENT ACCUMULATED MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

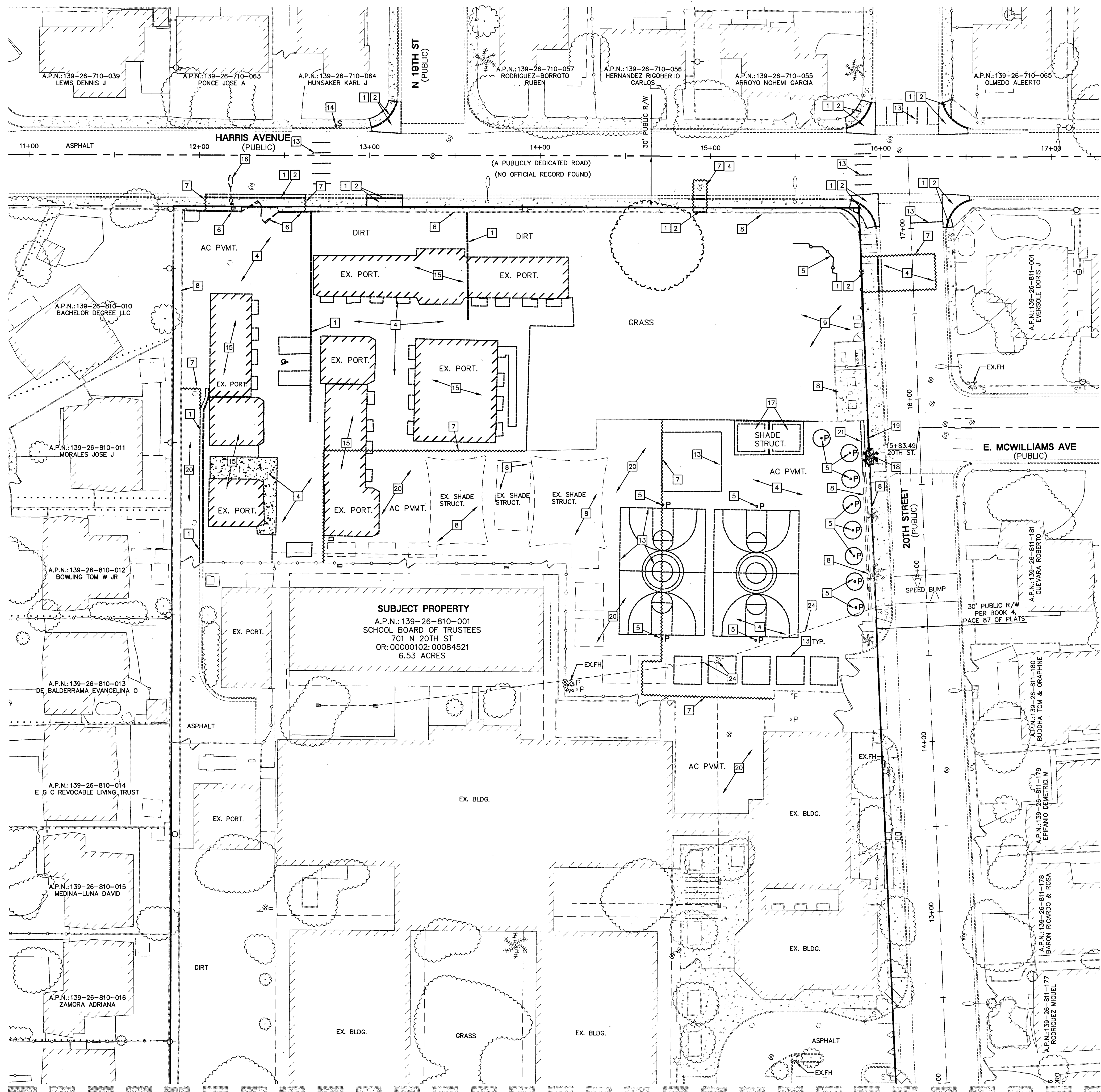
A.P.N.:
139-26-810-001

BASIS OF BEARINGS:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:

BENCHMARK NO.: 8LV0126586 RIVET & PLATE TOP OF CURB N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. (N. SIDE) BRUCE ST. & 20TH ST. ELEVATION: 566.716 METERS



SEE SHEET C2.02 FOR CONTINUATION

LEGEND	CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS	SHEET NO: C2.01 SHEET 3 OF 18
	PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34) BC		(S)	(S) = SANITARY SEWER						(BWV)			
	ROW LINE	SCARP LINE	PROPOSED:	2122									12.34 BC		(S)	(D) = STORM DRAIN (E) = ELECTRICAL (T) = TELEPHONE						(BWV)		

[illegible]

REVISIONS:			
REV.	DESCRIPTION:	DATE:	

SEAL:	DATE: APRIL 23, 2018	CP	171133
	DRAWN BY:	SUBMITTAL:	A/E PROJECT NO.:

CONSTRUCTION MGMT:		DATE:
PROJECT MANAGER:		
COORDINATOR:		
BUILDING DEPARTMENT:		
CODE COMPLIANCE:		
AHERA REVIEW:		

ASBESTOS WORK IS:
REQUIRED ☐ NOT REQUIRED ☐

	CLARK COUNTY SCHOOL DISTRICT CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-798-8710	
	PROJECT: HALLE HEWETSON E.S. BUILDING ADDITION 701 NORTH 20TH STREET, LAS VEGAS NEVADA 89101	DRAWING TITLE: DEMOLITION PLANS SHEET 2 OF 2
FACILITY: CITY OF LAS VEGAS	MPID 13511	
JOB ID/MPID:		CLV L18-00623
		715-206

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION
[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
 PROJECT No. 126020 1st APPROVAL DATE: *6/11/18*

A.P.N.:
139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: 8LV0126SSE6 RIVET & PLATE TOP OF CURB
N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN
BRUCE ST. & 20TH ST. ELEVATION: 586.716 METERS /
1865.86 FEET NAVD 88

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT



**AUGER
SIGNAL
STREET
LIGHTS
ON
IT'S
COASTLY**

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

Call Before You Overhead

1-702-432-5300

Call 811

or

1-702-227-2929

1-702-432-5300

800-227-2600

TREATMENT AND MAINTENANCE OF TRANSPORTATION

CL OR SURVEY LINE		EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS
PROPERTY LINE		SAWCUT LINE	EXISTING:	---(2210)---								(12.34) BC		⊙	⊙ = SANITARY SEWER	⊙	⊙	▷	○	□	⊙ BWV	⊙	⊙
ROW LINE		SCARP LINE	PROPOSED:	---(2122)---								12.34 BC		⊙	⊙ = STORM DRAIN	⊙	⊙	▷	○	□	⊙ BWV	⊙	⊙
															⊙ = ELECTRICAL	⊙	⊙	▷	○	□	⊙ BWV	⊙	⊙
															⊙ = TELEPHONE	⊙	⊙	▷	○	□	⊙ BWV	⊙	⊙

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PROJ#:126020 AGR:116632 QS:139-26-SE

LEGEND

CL OR SURVEY LINE
PROPERTY LINE
ROW LINE

EASEMENT LINE
SAWCUT LINE
SCARP LINE

DESCRIPTION:
EXISTING:
PROPOSED:

CONTOUR LINES
EDGE OF PAVEMENT

"A" TYPE CURBS
"L" TYPE CURBS

WALLS
FENCES

AC PAVEMENT
CONCRETE

SPOT ELEVATIONS
SIGNS

MANHOLE W/ DESCRIPTION
MANHOLE DESCRIPTIONS

FIRE HYDRANTS
GATE VALVES

REDUCERS
CLEAN OUTS

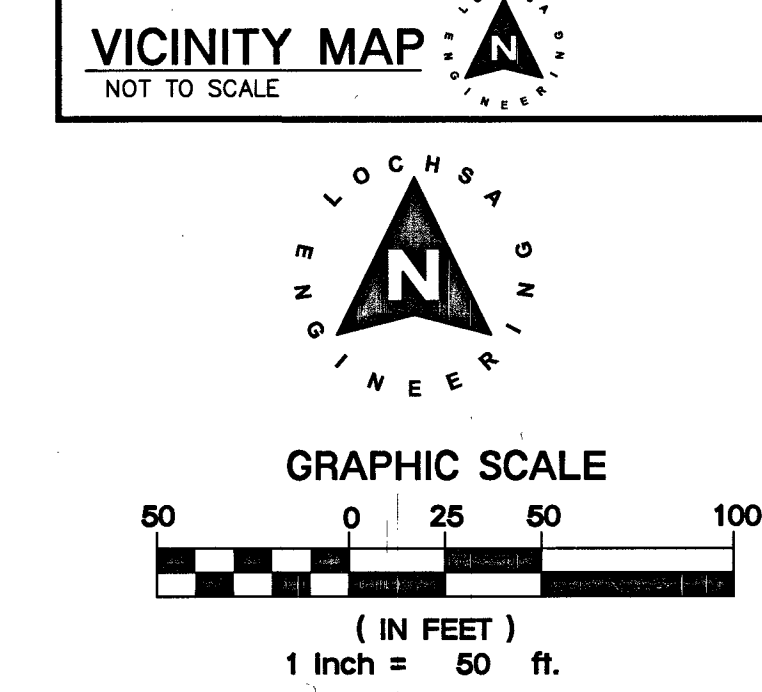
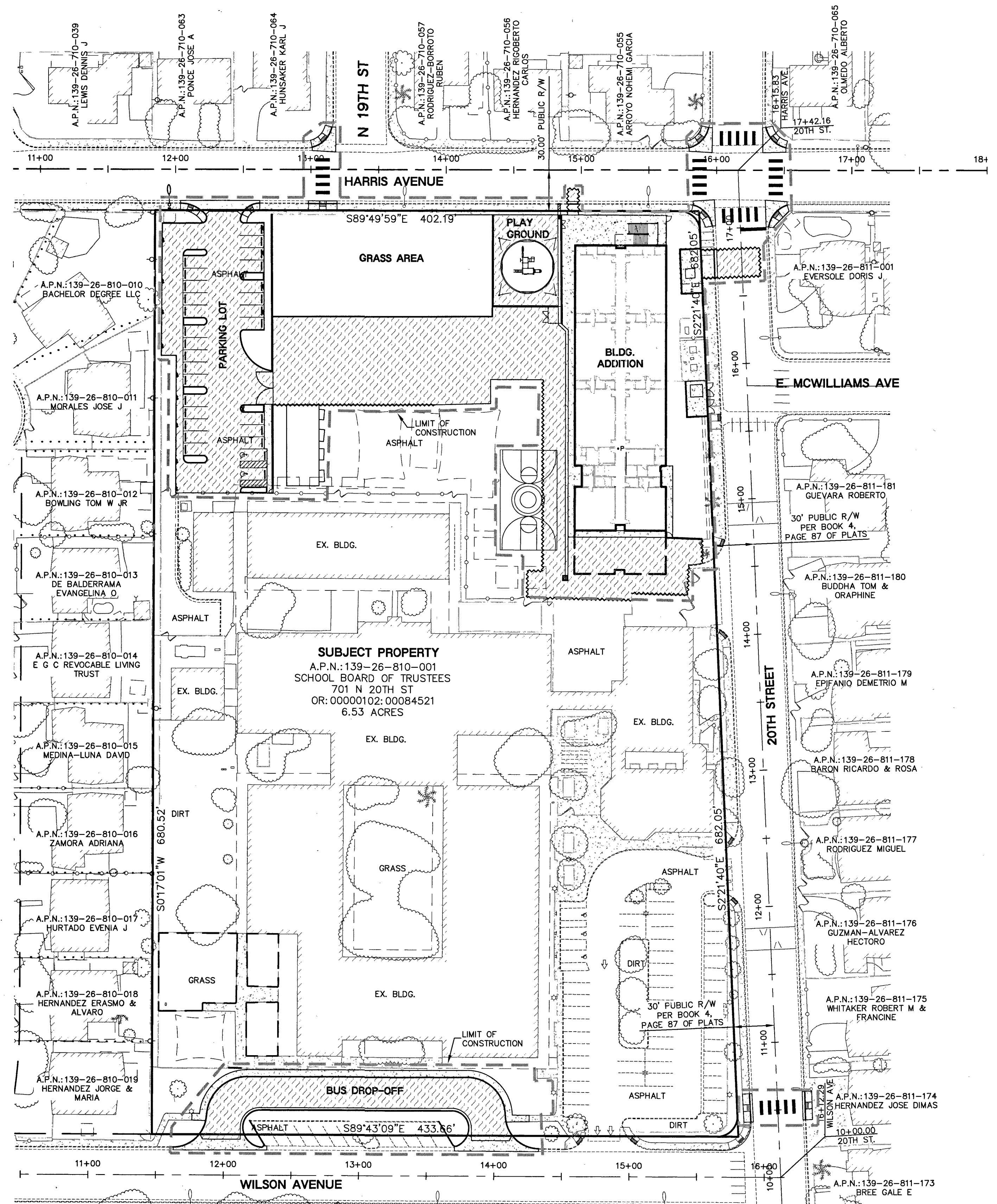
UTILITY BOX OR VAULT
BACKWATER VALVES

100w HPS STREETLIGHTS
150w HPS STREETLIGHTS

CLV L18- 00623

715-206

C3.00
SHEET 5 OF 16



A.P.N.:
139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: BLV01265SE6 RIVET & PLATE TOP OF CURB N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN BRUCE ST. & 20TH ST. ELEVATION: 586.716 METERS / 1865.86 FEET NAVD 88

NOTE:
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT
Call before you dig
Before you dig
Underground

1-702-227-2929
1-702-432-5300
1-702-227-2600

REVISIONS:

REV.	DESCRIPTION	DATE

PROJECT SITE

93/95

171.133

ethos three ARCHITECTURE

Lochsa Engineering

8885 S Eastern Avenue, Suite 220, Las Vegas, NV 89123
p. 702.456.1070 f. 702.456.1020 www.ethosthree.com

CONSULTANT:

ARCHITECT

CONSTRUCTION MGMT:

DATE:

COORDINATOR:

BUILDING DEPARTMENT:

CODE COMPLIANCE:

ASBESTOS WORK IS:

REQUIRED ☐ NOT REQUIRED ☐

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT 180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710

PROJECT: HALLE HEWETSON E.S. BUILDING ADDITION

DRAWING TITLE: HORIZONTAL CONTROL PLANS OVERALL

FACILITY: CITY OF LAS VEGAS

JOB ID/MPID: MPID - 13511

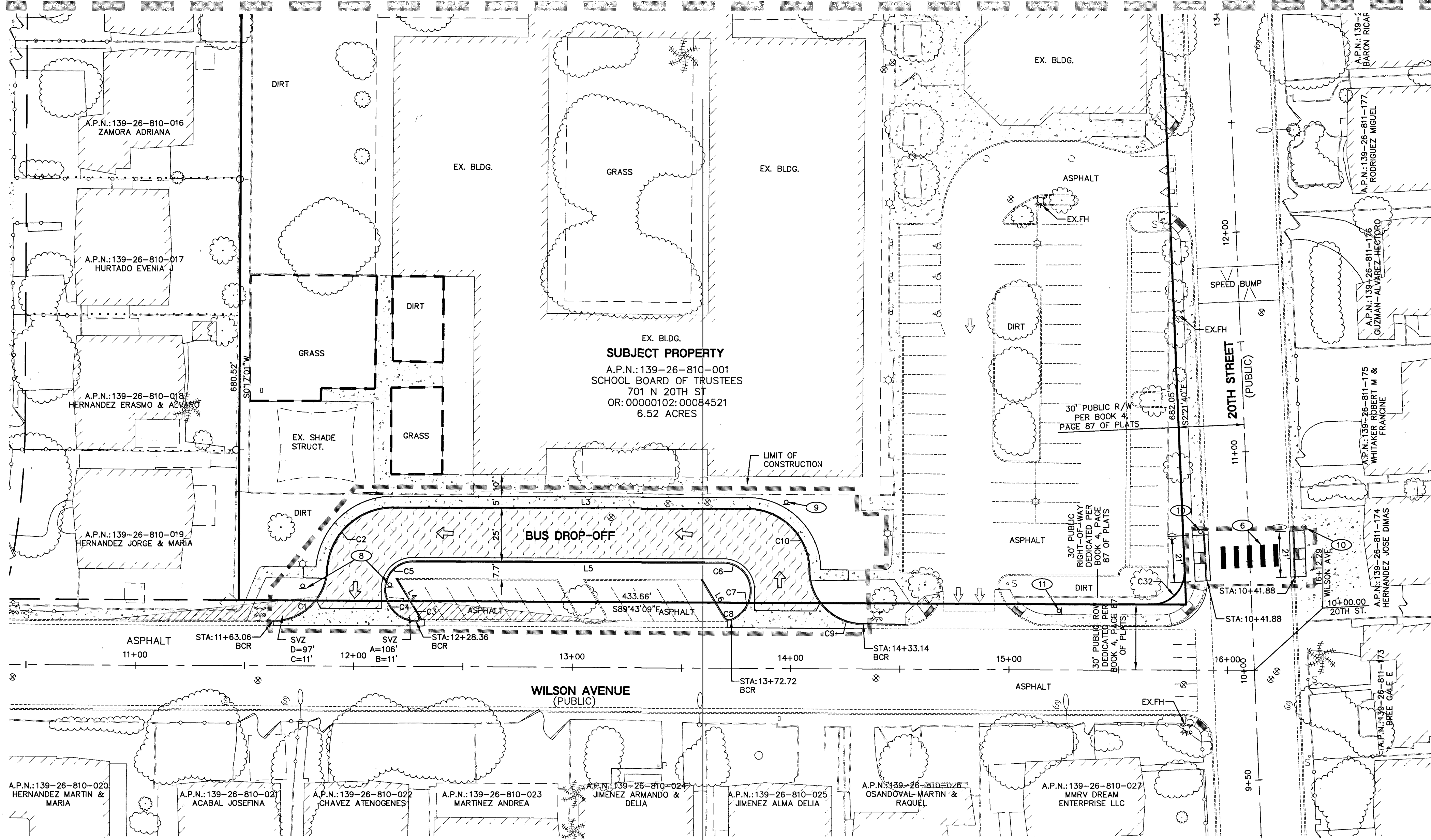
CLV L18- 00623

715-206

C3.00

SHEET 5 OF 16

SEE SHEET C3.01 FOR CONTINUATION



- CONSTRUCTION NOTES:**
- INSTALL 9' X 18' PARKING WITH 4" WHITE PAINTED LINES. (TYPICAL)
 - INSTALL 4" WHITE PAINTED HATCH LINES 3" O.C. @ 45°.
 - INSTALL BLUE AND WHITE PAINTED HANDICAP PAVEMENT MARKINGS. PER DETAIL 5 ON SHEET C3.01.
 - INSTALL 87-8 "MINIMUM \$250 FINE FOR USE BY OTHERS" NRS 484.408 SIGN (12" X 18") AND R7-8P WHERE APPLICABLE. SEE ARCH. SITE DETAILS.
 - INSTALL WHEEL STOP. SEE ARCH. SITE DETAILS.
 - INSTALL CROSSWALK STRIPING PER CCAUSD #254.
 - INSTALL 30"x30" R1-1 "STOP" SIGN
 - INSTALL 30"x30" R5-1 "DO NOT ENTER" SIGN
 - INSTALL 36"x12" R6-1 "ONE WAY" SIGN
 - INSTALL 36"x36" S1-1 WITH W16-7P SCHOOL CROSSING SIGN
 - INSTALL 36"x48" S5-1 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
 - INSTALL STREET LIGHT AND PULL BOX AS INDICATED
 - BASKETBALL COURT. SEE ARCH. PLANS
 - PLAYGROUND EQUIPMENT. SEE ARCH. PLANS

REVISIONS:

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ethos three ARCHITECTURE

Lochsa Engineering

8885 S Eastern Avenue, Suite 220, Las Vegas, NV 89123
P: 702.456.1070 F: 702.456.1020 www.ethosthree.com

CONSULTANT:

CONSTRUCTION MGMT:

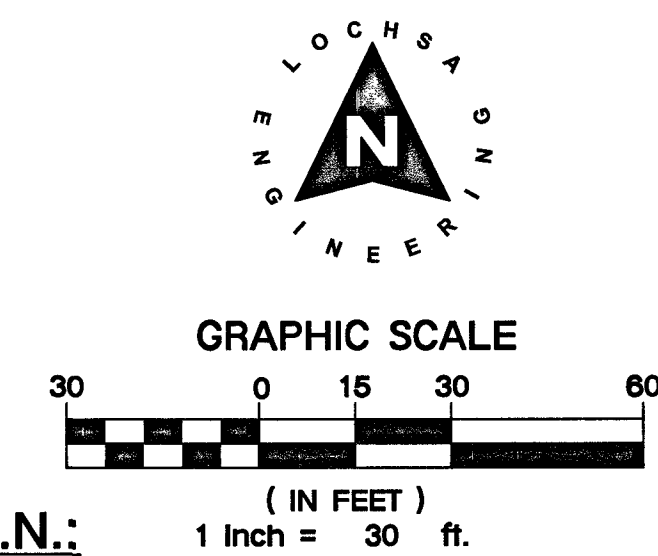
DATE:

LINE TABLE		
LINE #	LENGTH	DIRECTION
L2	29.14'	N90°00'00"E
L3	162.18'	S89°49'59"E
L4	20.14'	S31°05'41"E
L5	141.88'	S89°49'59"E
L6	19.82'	S30°30'03"E
L7	5.00'	S00°00'07"E
L9	16.50'	S89°52'21"W
L10	1.04'	S00°26'14"W
L11	1.50'	S00°00'32"E
L12	14.51'	N89°59'57"E
L13	11.01'	N89°59'57"E
L14	14.39'	N89°59'27"W
L15	14.38'	N89°58'27"W
L16	5.00'	S00°00'32"E
L17	14.51'	N89°59'53"E
L18	14.51'	N89°59'53"E
L19	15.00'	N89°51'02"E
L20	5.00'	S00°00'32"E
L21	14.52'	N89°59'57"E
L22	14.52'	N89°59'57"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L23	14.40'	N89°50'51"E
L24	14.39'	N89°50'50"E
L25	0.50'	S00°00'32"E
L26	11.53'	N89°59'56"E
L27	15.03'	N89°59'56"E
L28	3.71'	S00°00'07"E
L29	14.98'	N89°49'48"E
L30	19.00'	S89°36'32"E
L31	5.00'	S00°00'07"E

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	37.16'	24.50'	086°53'43"	23.21'
C2	46.26'	30.50'	086°53'43"	28.89'
C3	3.24'	1.50'	123°56'13"	2.82'
C4	22.10'	14.50'	087°19'29"	13.84'
C5	19.63'	12.50'	090°00'00"	12.50'
C6	19.63'	12.50'	090°00'00"	12.50'
C7	16.81'	14.50'	066°24'39"	9.49'
C8	3.62'	2.50'	082°55'17"	2.21'
C9	36.32'	24.50'	089°36'15"	24.33'
C10	44.55'	28.51'	089°31'26"	28.27'
C11	3.92'	2.50'	089°44'14"	2.49'
C12	7.85'	2.50'	180°00'00"	INFINITY
C13	7.85'	2.50'	180°00'00"	INFINITY
C14	7.85'	2.50'	180°00'00"	INFINITY
C15	3.88'	2.50'	089°00'53"	2.46'
C16	40.02'	27.44'	083°33'54"	24.52'
C17	7.85'	2.50'	180°00'00"	INFINITY
C18	7.85'	2.50'	180°00'00"	INFINITY
C19	6.28'	2.00'	180°00'00"	INFINITY
C20	4.53'	2.51'	103°28'39"	3.18'

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C21	19.42'	14.50'	076°45'19"	11.48'
C22	20.94'	24.50'	048°58'31"	11.16'
C23	7.99'	3.50'	130°51'28"	7.65'
C24	5.50'	3.50'	090°00'28"	3.50'
C25	5.50'	3.50'	089°59'31"	3.50'
C26	21.90'	19.50'	064°20'47"	12.27'
C27	21.90'	19.50'	064°20'47"	12.27'
C28	21.90'	19.50'	064°20'47"	12.27'
C29	21.90'	19.50'	064°20'47"	12.27'
C30	21.90'	19.50'	064°20'47"	12.27'
C31	22.90'	15.00'	087°28'19"	14.35'
C32	24.25'	15.00'	092°38'31"	15.71'



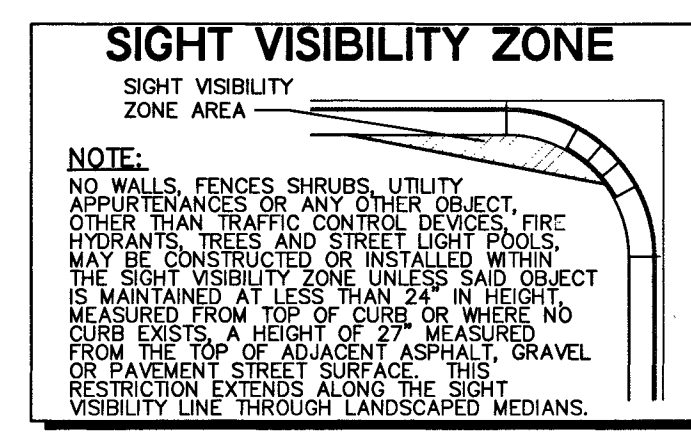
A.P.N.:
139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: 8LV01265S66 RIVET & PLATE TOP OF CURB N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN BRUCE ST. & 20TH ST. ELEVATION: 586.716 METERS / 1865.86 FEET NAVD 88

NOTE:
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT
Call Before You Dig
Call Before You Dig
Call Before You Dig
Call Before You Dig



HORIZONTAL CONTROL NOTE:
ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS NOTED OTHERWISE ON PLANS.

STOP R1-1

DO NOT ENTER R5-1

ONE WAY R6-1

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT S5-1

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS
PROPERTY LINE	SAWTOOTH LINE	EXISTING:	(2210)								(12.34) BC			⑤ = SANITARY SEWER ⑥ = STORM DRAIN ⑦ = ELECTRICAL ⑧ = TELEPHONE						BWV		
ROW LINE	SCARP LINE	PROPOSED:	(2122)								(12.34) BC									BWV		

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710

PROJECT: HALLE HEWETSON E.S. BUILDING ADDITION

DRAWING TITLE: HORIZONTAL CONTROL PLANS SHEET 2 OF 2

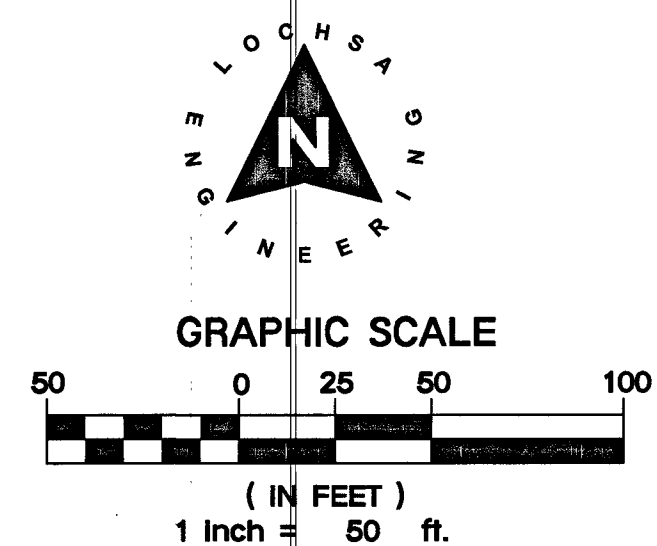
FACILITY: CITY OF LAS VEGAS

JOB ID/MPID: MPID - 13511

CLV L18 - 00623 715-266

SHEET NO: C3.02

SHEET 7 OF 16



A.P.N.:
109-26-810-001

BASIS OF BEARINGS:
Said NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°50' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: 8VDZ26SS68 RIVET & PLATE TOP OF CURB
SURVEY CORNER AT INTER. E. BONANZA RD. BETWEEN
BRUCE ST. & 20TH ST. ELEVATION: 586.716 METERS /
1965.86 FEET NAVD 88

NOTE:
LOOCHA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM, SEWER, TELEPHONE, POWER, GAS AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

Safety Alert

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

Call before you Dig

Call before you UnderGround

Call before you Dig

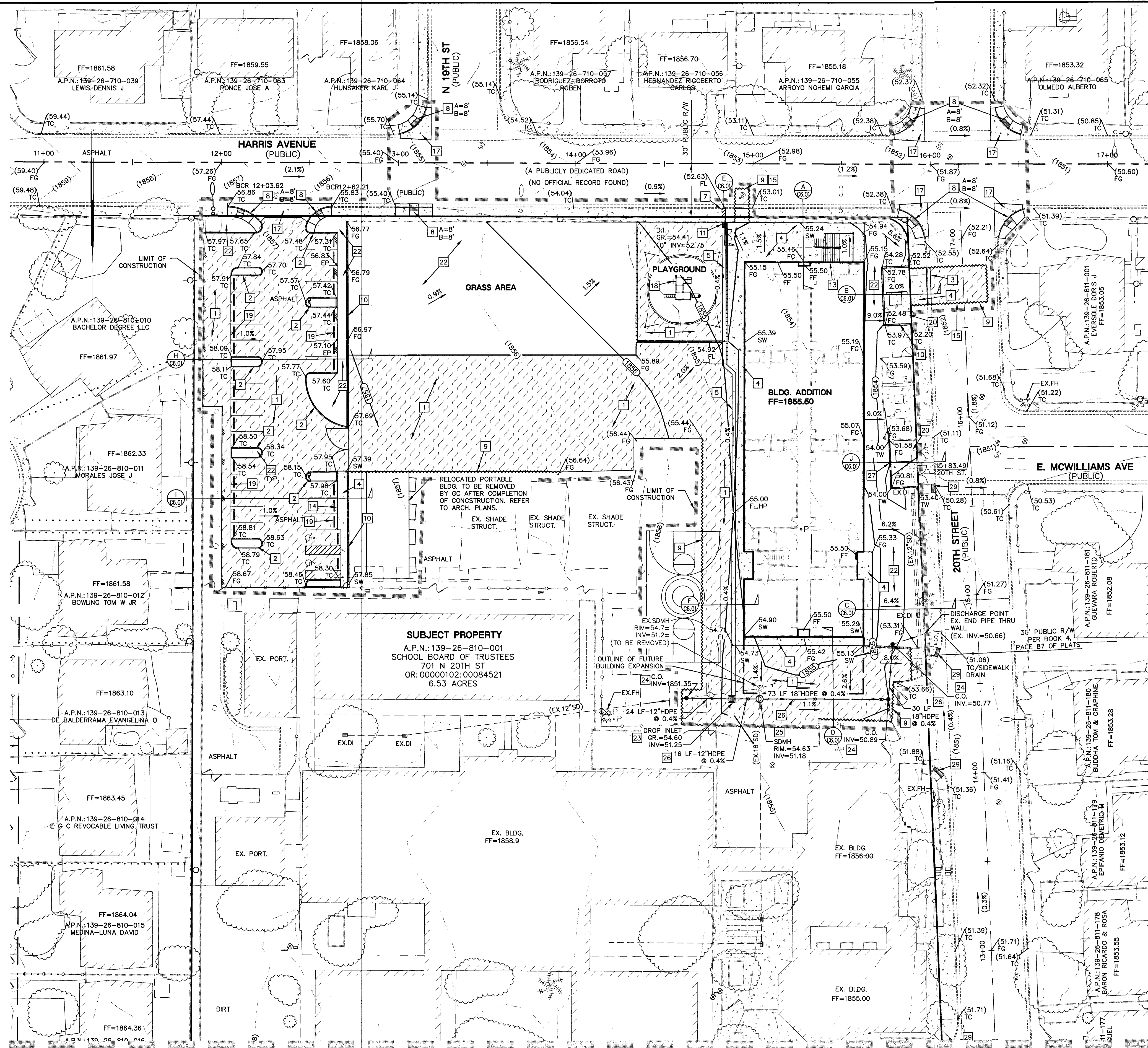
1-702-432-5300 or 22

1-702-277-2829

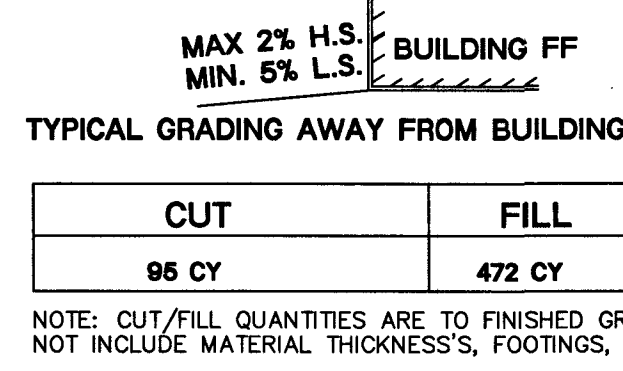
REPAIR AND MAINTENANCE OF ROADWAY - 800-227-2800

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS Ⓔ = SANITARY SEWER Ⓕ = STORM DRAIN Ⓔ = ELECTRICAL Ⓕ = TELEPHONE	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	---(2210)---										Ⓔ	Ⓔ								
ROW LINE	SCARP LINE	PROPOSED:	---(2122)---										Ⓔ	Ⓔ								

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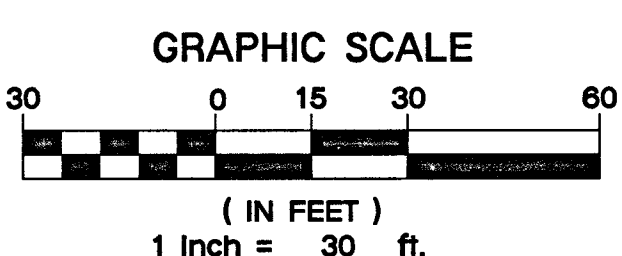
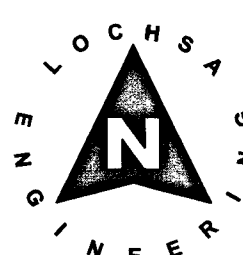


SEE SHEET C4.02 FOR CONTINUATION



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

FLOOD ZONE NOTE:
THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY AND INCORPORATED AREAS, NEVADA, COMMUNITY PANEL NUMBER: 32003C2186F, EFFECTIVE DATE: NOVEMBER 16, 2011. THE SITE FALLS WITHIN ZONE 'X' DESCRIBED BY FEMA AS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.



SEE SHEET C1.02 FOR STORM WATER MANAGEMENT NOTES

GRADING PLAN CERTIFICATION

GUY M. MORRIS PE #14526 DATE 4-24-18

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT. DS4959

A.P.N.: 139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: BLV026556 RIVET & PLATE TOP OF CURB N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN BRUCE ST. & 20TH ST. ELEVATION: 566.716 METERS / 1865.66 FEET NAVD 88

NOTE: ADD 1800' TO ALL ELEVATION TAGS

CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
- NOT ALL NOTES USED ON THIS SHEET -
- 1. CONSTRUCT AC PAVEMENT PER DETAIL 2 ON C6.01.
- 2. CONSTRUCT "A" TYPE CURB PER DETAIL 1 ON C6.01.
- 3. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
- 4. CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234.
- 5. CONSTRUCT 2" VALLEY GUTTER PER DETAIL 3 ON C6.01.
- 6. NOT USED.
- 7. CONSTRUCT SIDEWALK UNDER DRAIN PER CCAUSD. No. 238.
- 8. CONSTRUCT HANDICAP RAMP CASE 1 PER CCAUSD No. 235, 2% MAX. SLOPE AT LANDING.
- 9. SAWCUT AND MATCH EXISTING.
- 10. FENCE WITH MOWCURB PER ARCHITECTURAL SITE DETAILS.
- 11. INSTALL CATCH BASIN WITH 12"x12" GRATE NDS 1210 GRAY.
- 12. CONSTRUCT CONC. SIDEWALK PER DETAIL 7 ON C6.01. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS.
- 13. CONSTRUCT CONC. PAD UNDER STAIRS PER DETAIL 5 ON SHEET C6.01.
- 14. CONSTRUCT 0" CURB.
- 15. TRENCH, BACKFILL, AND AC RESTORATION CCAUSD Nos. 503, 500.3, 500.4, AND 500.5.
- 16. TRANSITION CURB FROM 6" TO 0"
- 17. CONSTRUCT CROSS GUTTER PER CCAUSD 228.
- 18. CONSTRUCT PLAYGROUND EQUIPMENT, SEE ARCH. PLANS.
- 19. INSTALL CONC. WHEEL STOP. SEE ARCH. SITE DETAILS.
- 20. CONSTRUCT CONC. UTILITY PAD, 3,000 PSI (4" THICK) WITH W.W.F., 4X4 - W1.4 X W1.4.
- 21. REGRADE AREA.
- 22. LANDSCAPING, SEE LANDSCAPE PLANS.
- 23. CONSTRUCT 2'X2' JENSEN PRECAST INLET WITH TRAFFIC GRATE PER DETAIL 10 SHEET C6.01.
- 24. CONSTRUCT 18" WYE & CLEANOUT PER DETAIL 4 SHEET C6.01.
- 25. CONSTRUCT 48" TYPE 1A SHALLOW MH PER CCAUSD 404.
- 26. INSTALL ADS N-12 HDPE DUAL WALL CORRUGATED PIPE.
- 27. CONSTRUCT RETAINING WALL PER DETAILS SHEET C6.02.
- 28. CONSTRUCT CMU WALL MATCH EXISTING.
- 29. INSTALL DETECTABLE WARNING STRIP PER CCAUSD 235.

GRADING NOTES:

- SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE, NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC., PROJECT No.20174234E1, 9-22-2017.

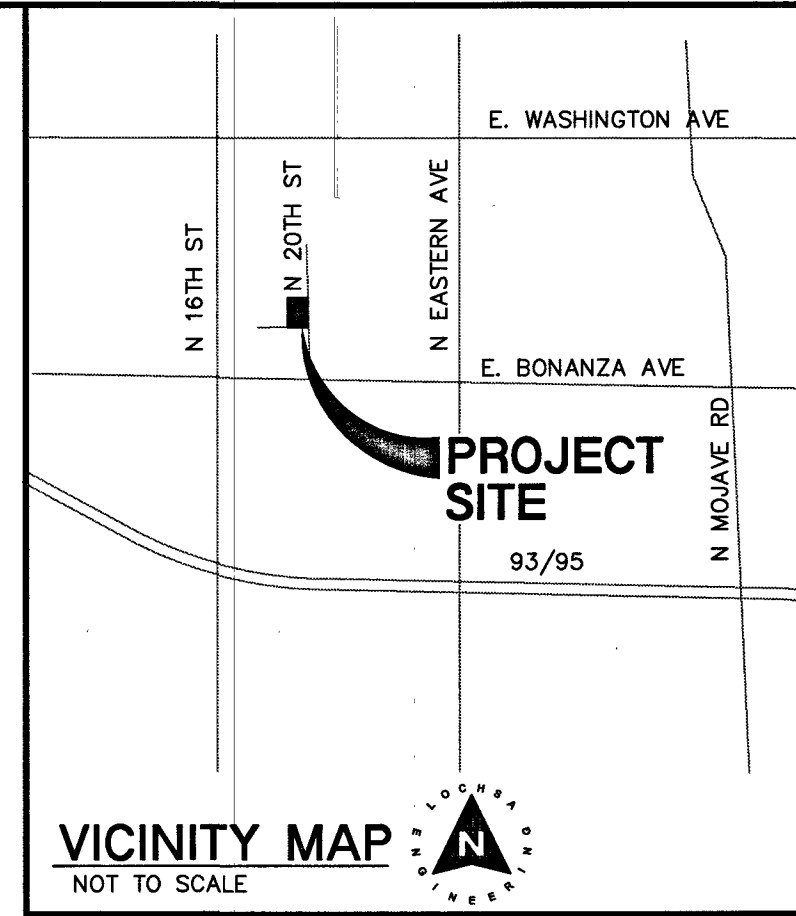
NOTE:

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

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

1-702-227-2929 1-702-432-5300
RENTAL & MAINT. SUPPLY OF EQUIPMENT - 800-227-2800



REVISIONS:

REV.	DESCRIPTION	DATE

ethos three ARCHITECTURE

Lochsa engineering
8865 S Eastern Avenue, Suite 200, Las Vegas, NV 89123
P: 702.456.1020 F: 702.456.1020 www.ethosthree.com
6345 South Jones Blvd. Suite 100 Las Vegas, NV 89118
Phone: 702.365.9312 Fax: 702.365.9317 www.lochsa.com

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT 180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710

HALLE HEWETSON E.S. BUILDING ADDITION
701 NORTH 20TH STREET, LAS VEGAS NEVADA 89101

GRADING PLANS SHEET 1 OF 2

CITY OF LAS VEGAS

CONSTRUCTION MGMT: DATE: **DATE:**

BUILDING DEPARTMENT:

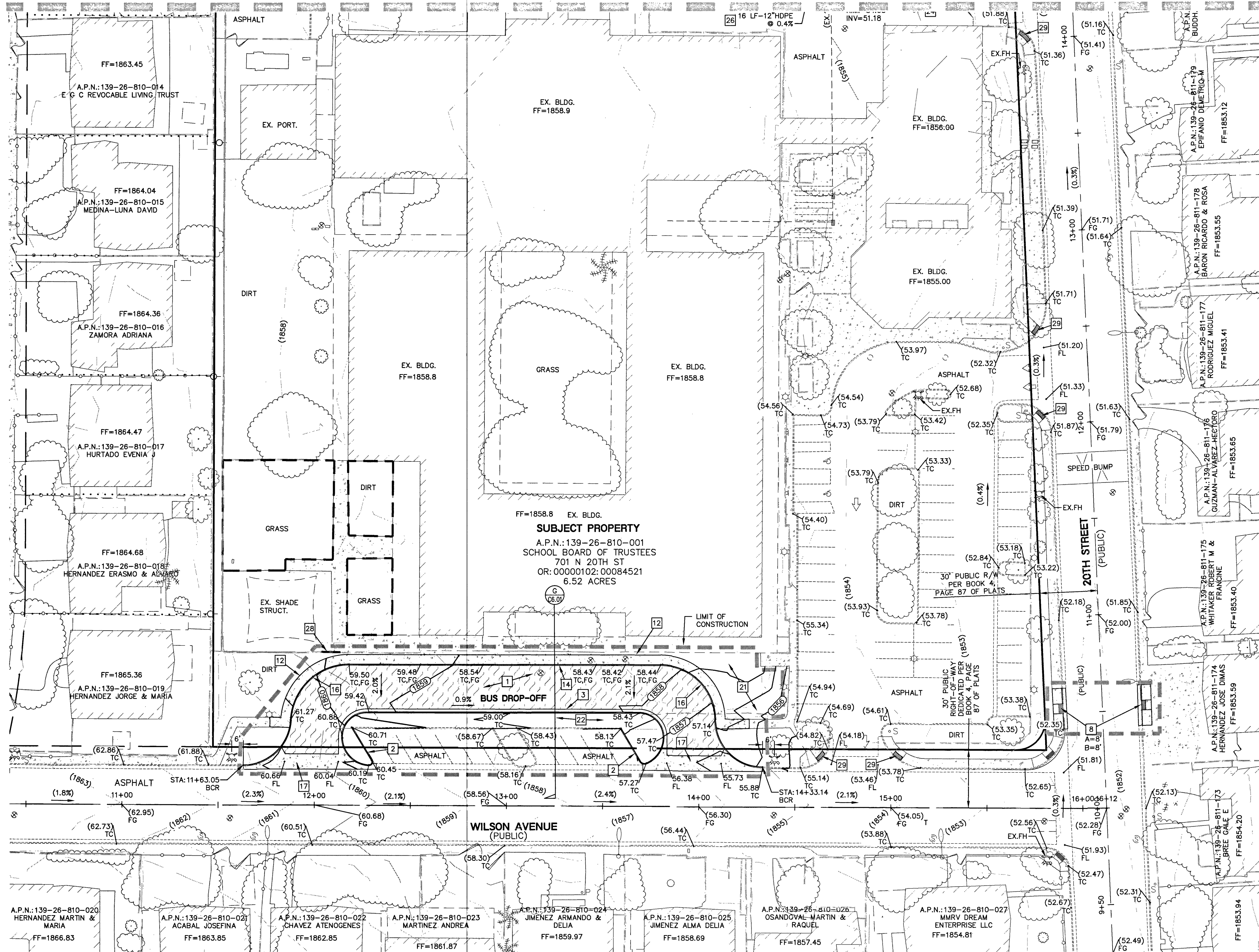
ASBESTOS WORK IS:
REQUIRED ☐ NOT REQUIRED ☐

JOB ID/MPID: MPID - 13511

CLV L18-00623 715-2-06

C4.01
SHEET 9 OF 16

SEE SHEET C4.01 FOR CONTINUATION



REVISIONS:

REV.	DESCRIPTION	DATE
1	ADD 1800' TO ALL ELEVATION TAGS	4-24-18

VICINITY MAP

PROJECT SITE

8985 S Eastern Avenue, Suite 220, Las Vegas, NV 89123
P: 702.456.1070 F: 702.456.1020 www.ethosarchitect.com

ethos three ARCHITECTURE

Lochsa Engineering

6345 South Jones Blvd., Suite 100, Las Vegas, NV 89118

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
2. NOT ALL NOTES USED ON THIS SHEET -
3. CONSTRUCT AC PAVEMENT PER DETAIL 2 ON C6.01.
4. CONSTRUCT "A" TYPE CURB PER DETAIL 1 ON C6.01.
5. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
6. CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234.
7. CONSTRUCT 2' VALLEY GUTTER PER DETAIL 3 ON C6.01.
8. NOT USED.
9. CONSTRUCT SIDEWALK UNDER DRAIN PER CCAUSD No. 236.
10. CONSTRUCT HANDICAP RAMP CASE I PER CCAUSD No. 235. 2% MAX. SLOPE AT LANDING.
11. SAWCUT AND MATCH EXISTING.
12. FENCE WITH MONOCURB PER ARCHITECTURAL SITE DETAILS.
13. INSTALL CATCH BASIN WITH 12"x12" GRATE NDS 1210 GRAY.
14. CONSTRUCT CONC. SIDEWALK PER DETAIL 7 ON C6.01. REFER TO ARCH. PLANS FOR FINISHING SPECIFICATIONS.
15. CONSTRUCT CONC. PAD UNDER STAIRS PER DETAIL 5 ON SHEET C6.01.
16. CONSTRUCT 0" CURB.
17. TRENCH, BACKFILL, AND AC RESTORATION CCAUSD Nos. 503, 500.3, 500.4, AND 500.5.
18. TRANSITION CURB FROM 6" TO 0"
19. CONSTRUCT CROSS GUTTER PER CCAUSD 228.
20. CONSTRUCT PLAYGROUND EQUIPMENT, SEE ARCH. PLANS.
21. INSTALL CONC. WHEEL STOP, SEE ARCH. SITE DETAILS.
22. CONSTRUCT CONC. UTILITY PAD, 3,000 PSI (4" THICK) WITH W.W.F., 4X4 - W1.4 X W1.4.
23. REGRADE AREA.
24. LANDSCAPING, SEE LANDSCAPE PLANS.
25. CONSTRUCT 2'X2' JENSEN PRECAST INLET WITH TRAFFIC GRATE PER DETAIL 10 SHEET C6.01.
26. CONSTRUCT 18" WYE & CLEANOUT PER DETAIL 4 SHEET C6.01.
27. CONSTRUCT 48" TYPE 1A SHALLOW MH PER CCAUSD 404.
28. INSTALL ADS N-12 HDPE DUAL WALL CORRUGATED PIPE.
29. CONSTRUCT RETAINING WALL PER DETAILS SHEET C6.02.
30. CONSTRUCT CMU WALL MATCH EXISTING.
31. INSTALL DETECTABLE WARNING STRIP PER CCAUSD 235.

GRADING NOTES:

1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
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3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE, NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC., PROJECT No.20174234E1, 9-22-2017.

EXISTING UTILITY NOTE:

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

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY AND INCORPORATED AREAS, NEVADA, COMMUNITY PANEL NUMBER: 32003C2186F, EFFECTIVE DATE: NOVEMBER 16, 2011. THE SITE FALLS WITHIN ZONE "X", DESCRIBED BY FEMA AS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

SEE SHEET C1.02 FOR STORM WATER MANAGEMENT NOTES

GRADING PLAN CERTIFICATION

GUY M. MORRIS PE #14526 DATE 4-24-18

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT. DS4959

BASIS OF BEARINGS:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NORS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:

BENCHMARK NO.: BLV028566 RIVET & PLATE TOP OF CURB N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN BRUCE ST. & 20TH ST. ELEVATION: 586.716 METERS / 1958.86 FEET NAVD 88

NOTE:

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SAFETY ALERT

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

Call Before You Overhead

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

MAX 2% H.S. BUILDING FF MIN. 5% L.S.

CUT	FILL
96 CY	472 CY

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

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34) BC									(BWV)		
ROW LINE	SCARP LINE	PROPOSED:	(2122)								(12.34) BC									(BWV)		

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT 1800 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8770

PROJECT: HALLE HEWETSON E.S. BUILDING ADDITION

701 NORTH 20TH STREET, LAS VEGAS NEVADA 89101

DRAWING TITLE: GRADING PLANS SHEET 2 OF 2

FACILITY: CITY OF LAS VEGAS

JOB ID/MPID: MPID - 13511

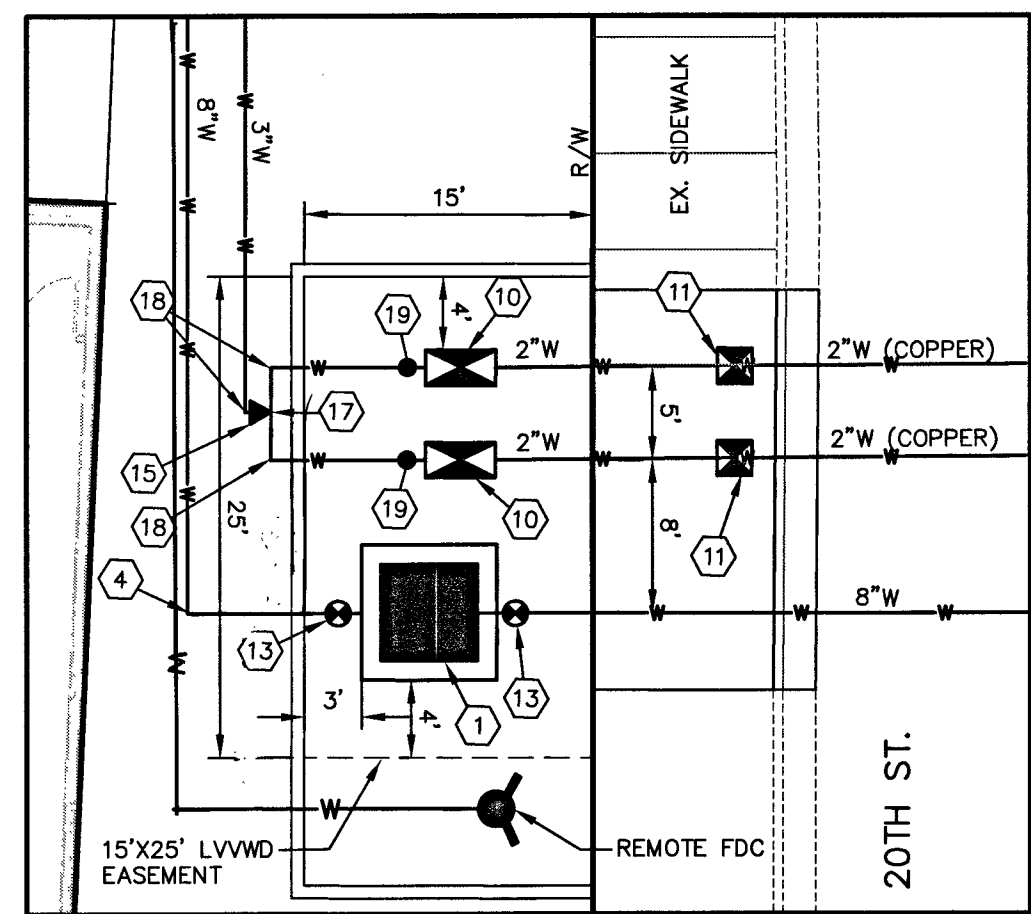
CLV L18-00623 715-206

SHEET NO: C4.02

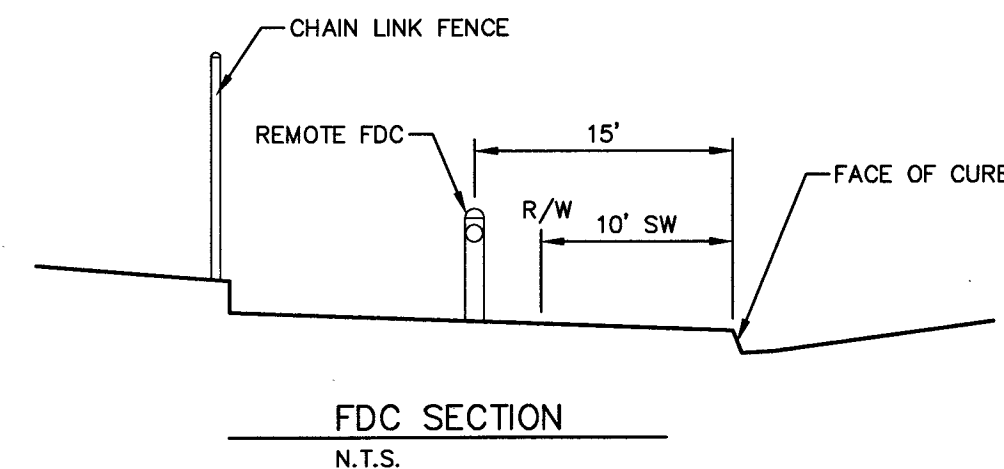
SHEET 100F 18



PROJ#:126020 AGR:116632 QS:139-26-SE



1. DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
2. THE FIRE LINE CONNECTED TO THE RPDA MAY NOT BE CONNECTED TO THE EXISTING FIRE LINE SERVED BY DCA.
3. RPDA CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
4. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APURTANCES ARE AVAILABLE.



- 1) INSTALL 8" RPDA PER UDACS PLT 56. LOW LOSS UNIT (WATTS MODEL #957NRDPA).
- 2) INSTALL FIRE HYDRANT W/GATE VALVE PER UDACS PLATE NO. 40. PROVIDE FENCE ENCLOSURE AND GATE WITH KNOX BOX AND KEY.
- 3) INSTALL 45" BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
- 4) INSTALL 90" BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31. *4" Bend to Service.*
- 5) INSTALL TEE (SAME SIZE AS PIPES) W/ THRUST BLOCK PER UDACS NO. 31
- 6) INSTALL 9"x9" TEE WITH 8" GATE VALVE PER UDACS PLATE NO. 30, 31
- 7) INSTALL 2" SERVICE SADDLE CONNECTION WITH CORP. STOP PER UDACS PLATE NO. 4.
- 8) STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
- 9) INSTALL REDUCER W/ ANCHOR BLOCK (SAME SIZE AS PIPES) PER UDACS PLATE NO. 30.
- 10) INSTALL 2" RPDA WITH ENCLOSURE PER UDACS PLATE NO. 8.
- 11) INSTALL 2" WATER SERVICE & METER PER UDACS PLATE NO. 8.
- 12) SAWCUT, TRENCH AND BACKFILL PER UDACS PLATE NO. 17. RESTORE AC PAVEMENT PER CCAUSD 500.5. REPLACE CURB, GUTTER AND SIDEWALK AS NECESSARY.
- 13) INSTALL GATE VALVE (SIZE PER PLAN) PER UDACS PLATE NO. 30
- 14) IRRIGATION TO BE REMOVED, ABANDONED, AND/OR RELOCATED PER LANDSCAPE PLANS.
- 15) INSTALL 3"x2" REDUCER
- 16) REMOVE EXISTING 18 LF-8"ACP AND REPLACE WITH 20 LF-9"VC
- 17) INSTALL 2" TEE
- 18) INSTALL 90" BEND (SAME SIZE AS PIPE)
- 19) INSTALL CURB STOP (SAME SIZE AS PIPES)
- 20) INSTALL 6" CAP PER UDACS PLATE NO. 31
- 21) CONTRACTOR TO LOCATE EX. IRRIG. LINES AND CONDUITS. REMOVE AND RELOCATE. SEE LANDSCAPE PLANS
- 22) INSTALL 6" CHECK VALVE

BY: [Signature] DATE: 5-31-18

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 2250 GPM AT 20 P.S.I. RESIDUAL.

NOTE: FOR OFF-SITE IMPROVEMENTS APPROVAL ONLY.

APPROVED FOR CONSTRUCTION

DISCARD

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 6/11/18 PROJECT No.126020

LWWD APPROVED FIRE FLOW = 2250 GPM AT 20 PSI RESIDUAL

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND DEPTHS. THE FIELD SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITY INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY, SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

Call before you dig
Avoid cutting under
existing structures. It's a
crime.



Call Before You Overhead

1-702-277-2929

1-800-227-2221

Call before you UnderGround

Call 811 or

UNDERGROUND TRAPPING
AND STREET
LIGHT SYSTEM CONDUITS
IT'S COSTLY

or

800-227-2221

CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w H STREETLIGHTS
○	□	(BWV)	○	○
●	□	(BWV)	○	○

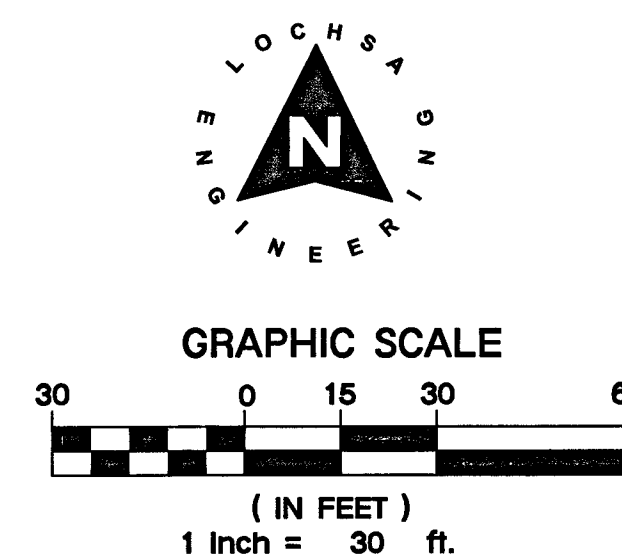
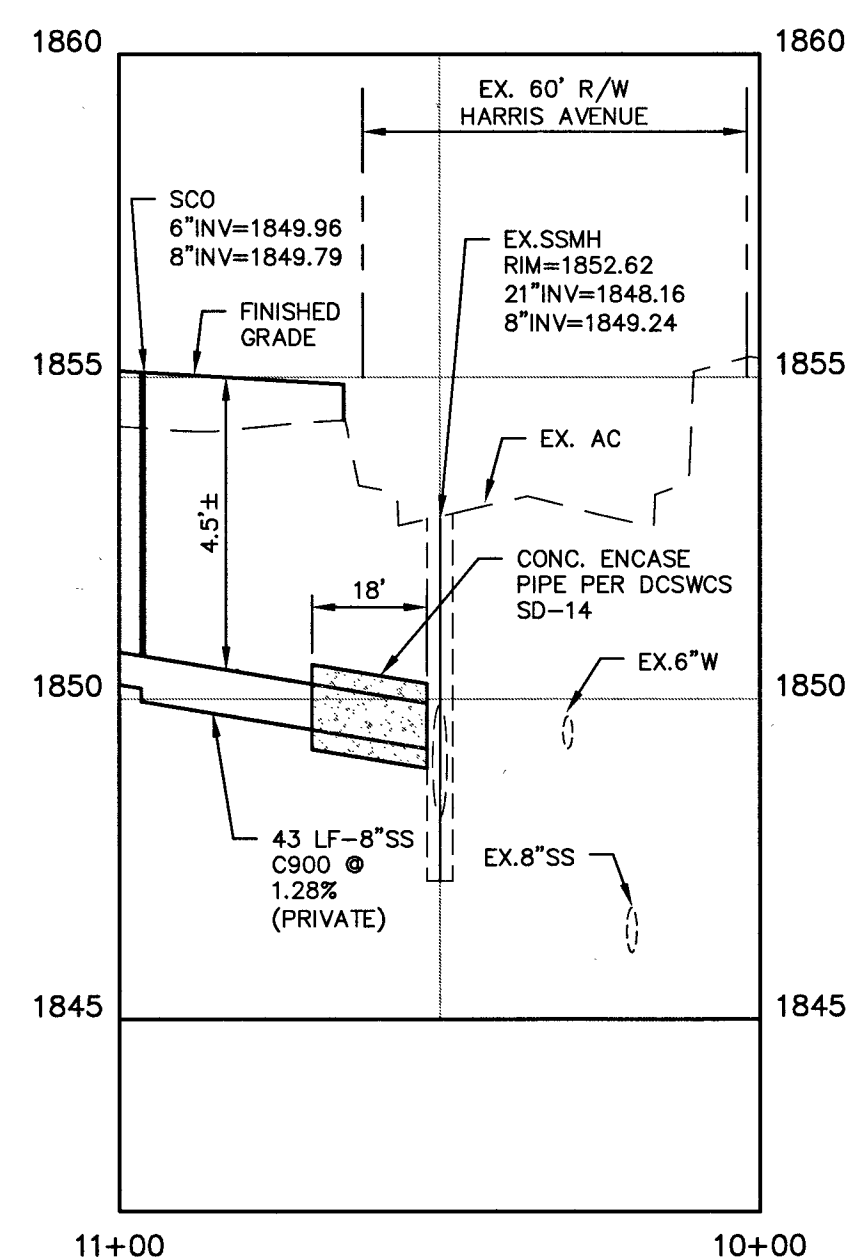
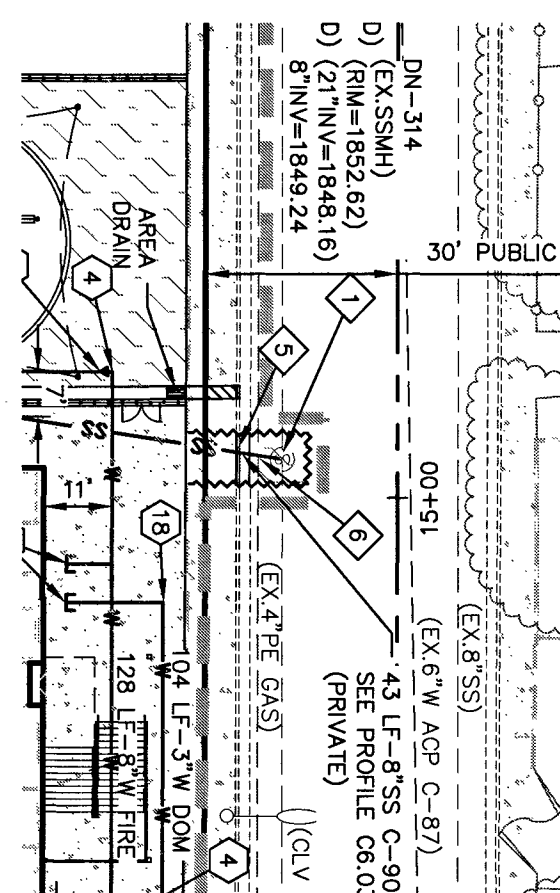
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A.P.N.:
139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO.: 8LVO126SSE6 RIVET & PLATE TOP OF N. SIDE BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN 1865.88 FEET NAVD 88 ELEVATION: 586.76 METERS

LEGEND	CL OR SURVEY LINE _____		EASEMENT LINE _____	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS	SHEET NO:
	PROPERTY LINE - - - - -		SAWCUT LINE	EXISTING:	---(2210)---								(12.34) BC		③	③ = SANITARY SEWER									C5.01 SHEET 120F 16
	ROW LINE - - - - -		SCARP LINE	PROPOSED:	==2122==								12.34 BC		④	④ = STORM DRAIN									
																	⑤ = ELECTRICAL								
																⑥ = TELEPHONE									



W. L. A. 5-24-18
SOUTHWEST GAS CORPORATION DATE

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR
LOCALITY UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES
SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE
INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO
FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES,
INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SEWERY,
SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND
IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF
CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE FIELD
CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S
REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

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

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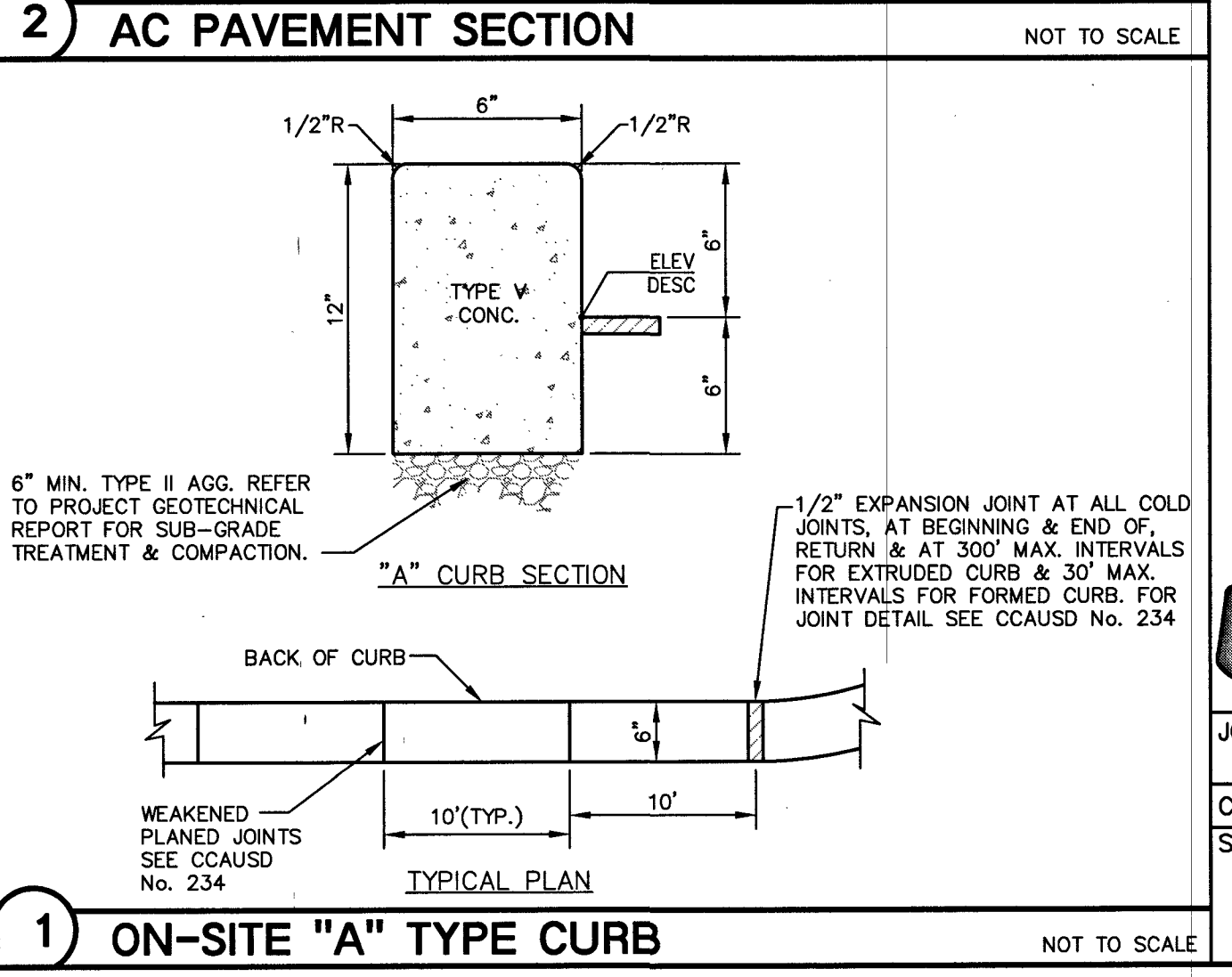
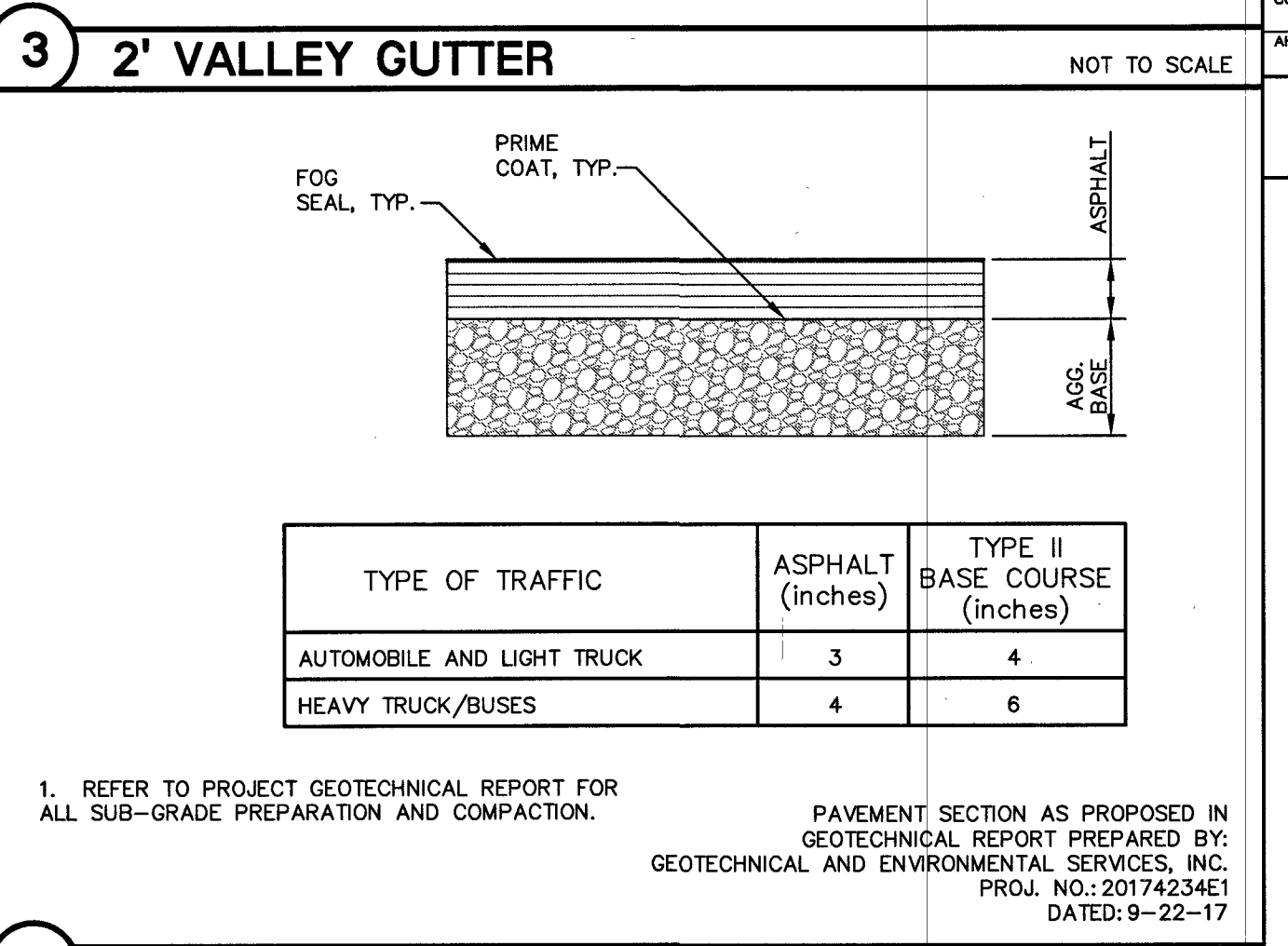
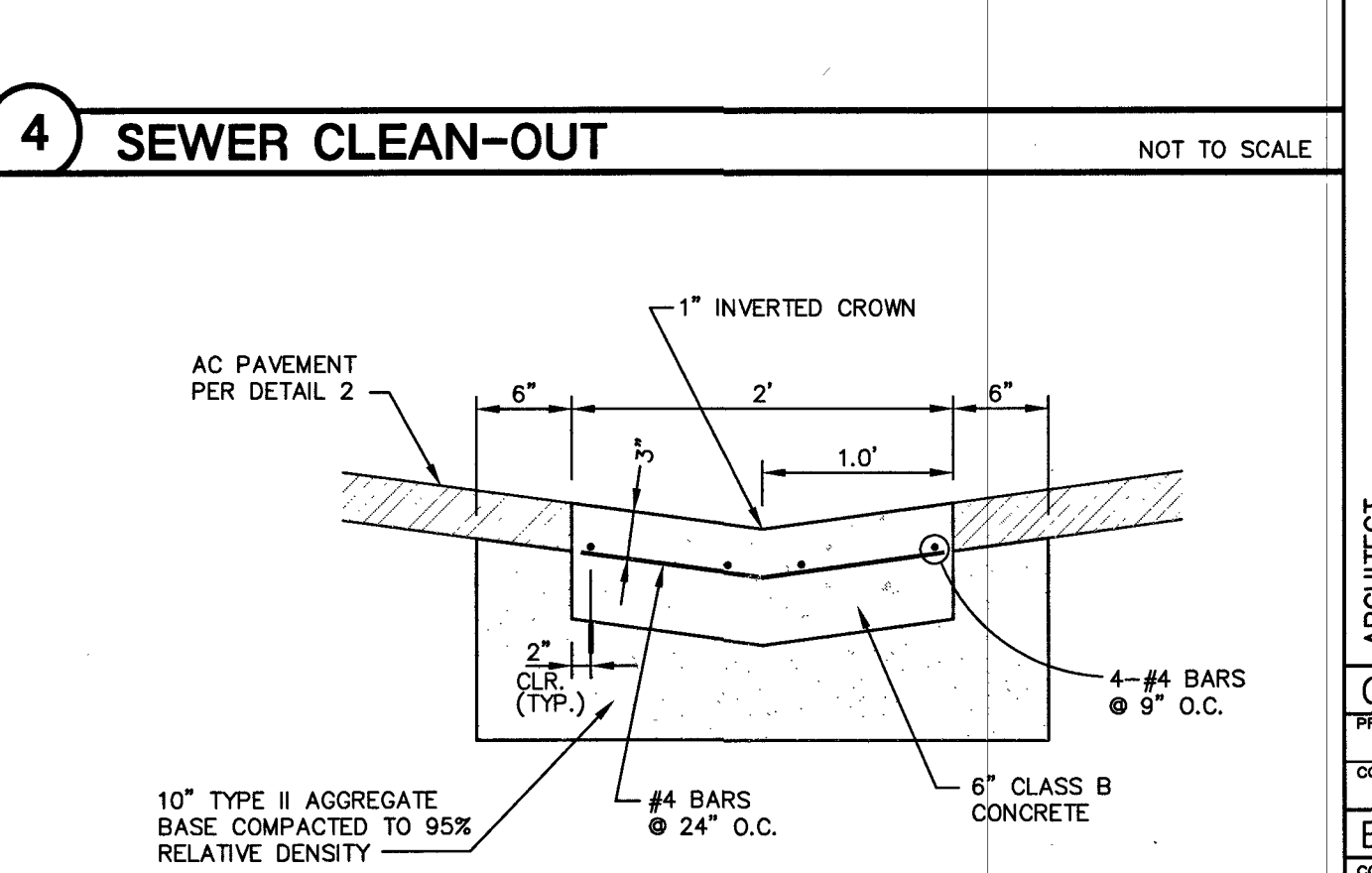
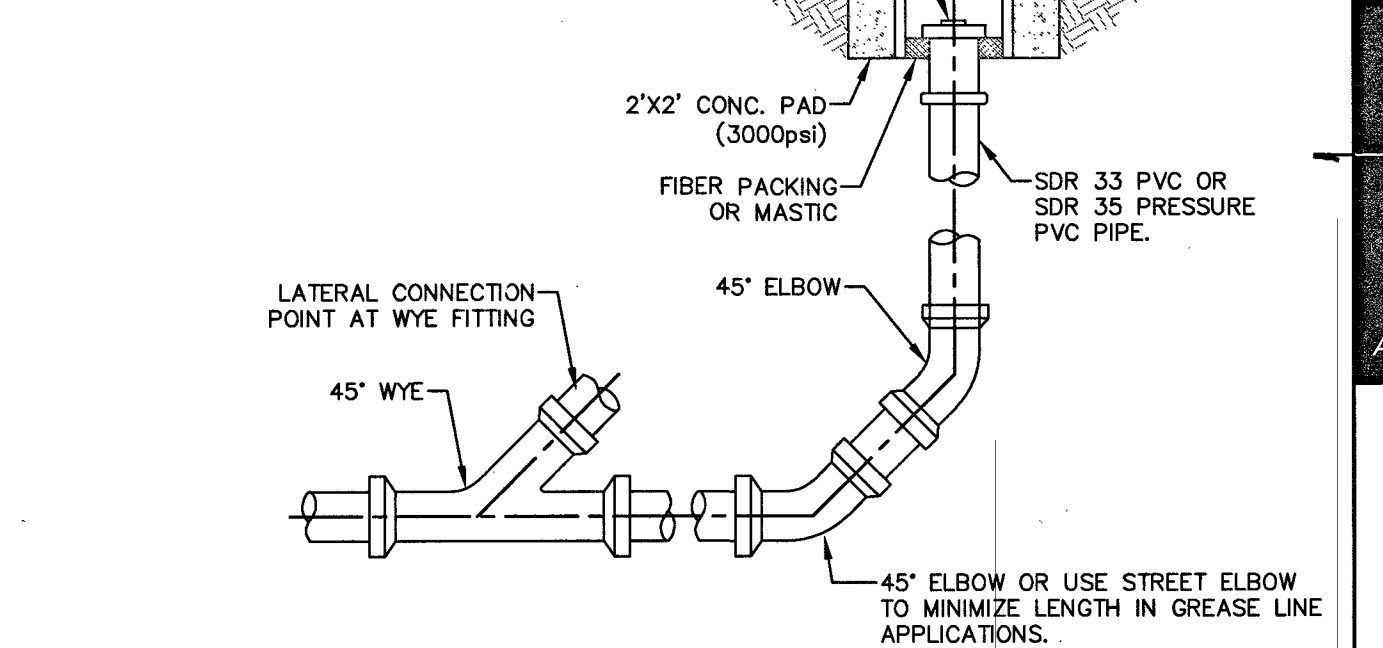
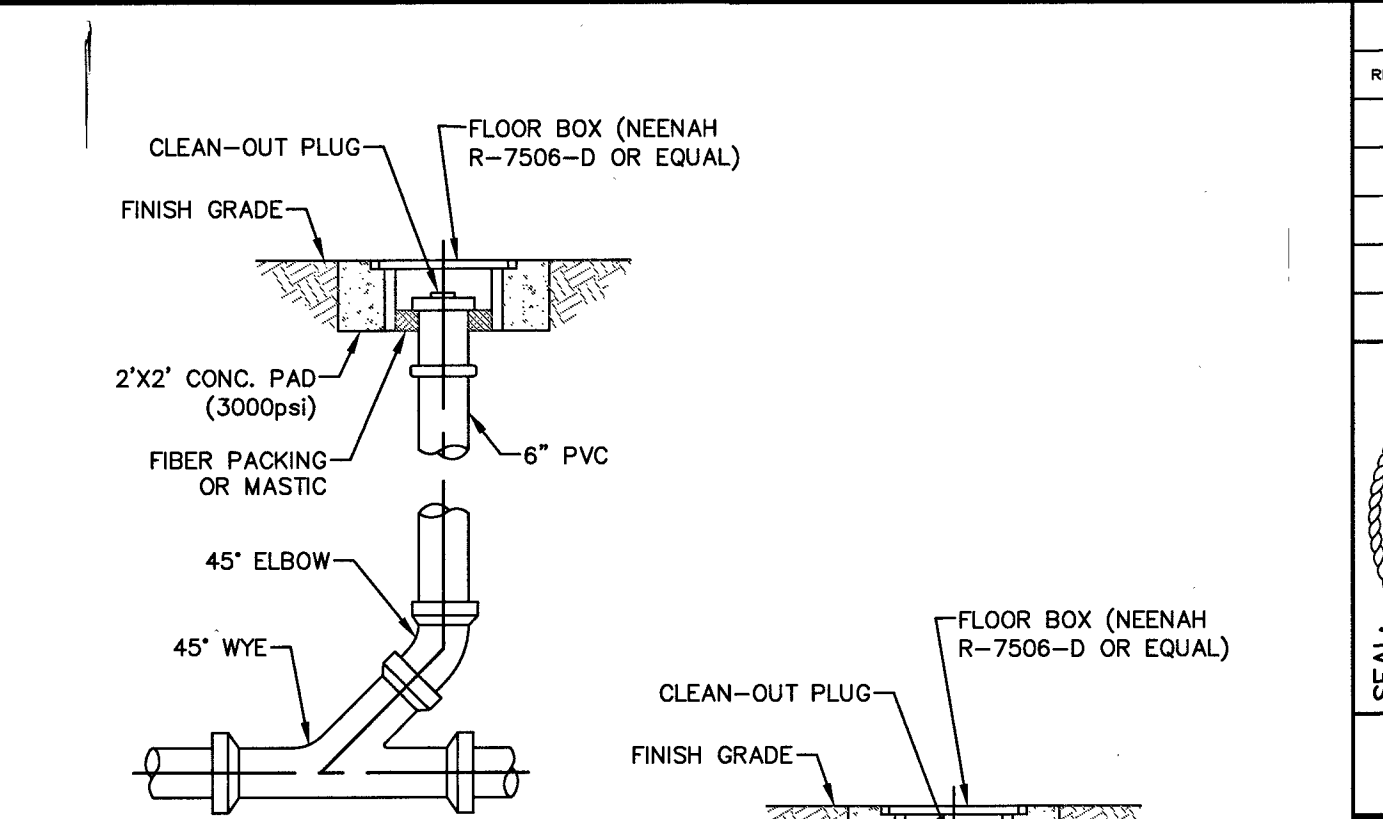
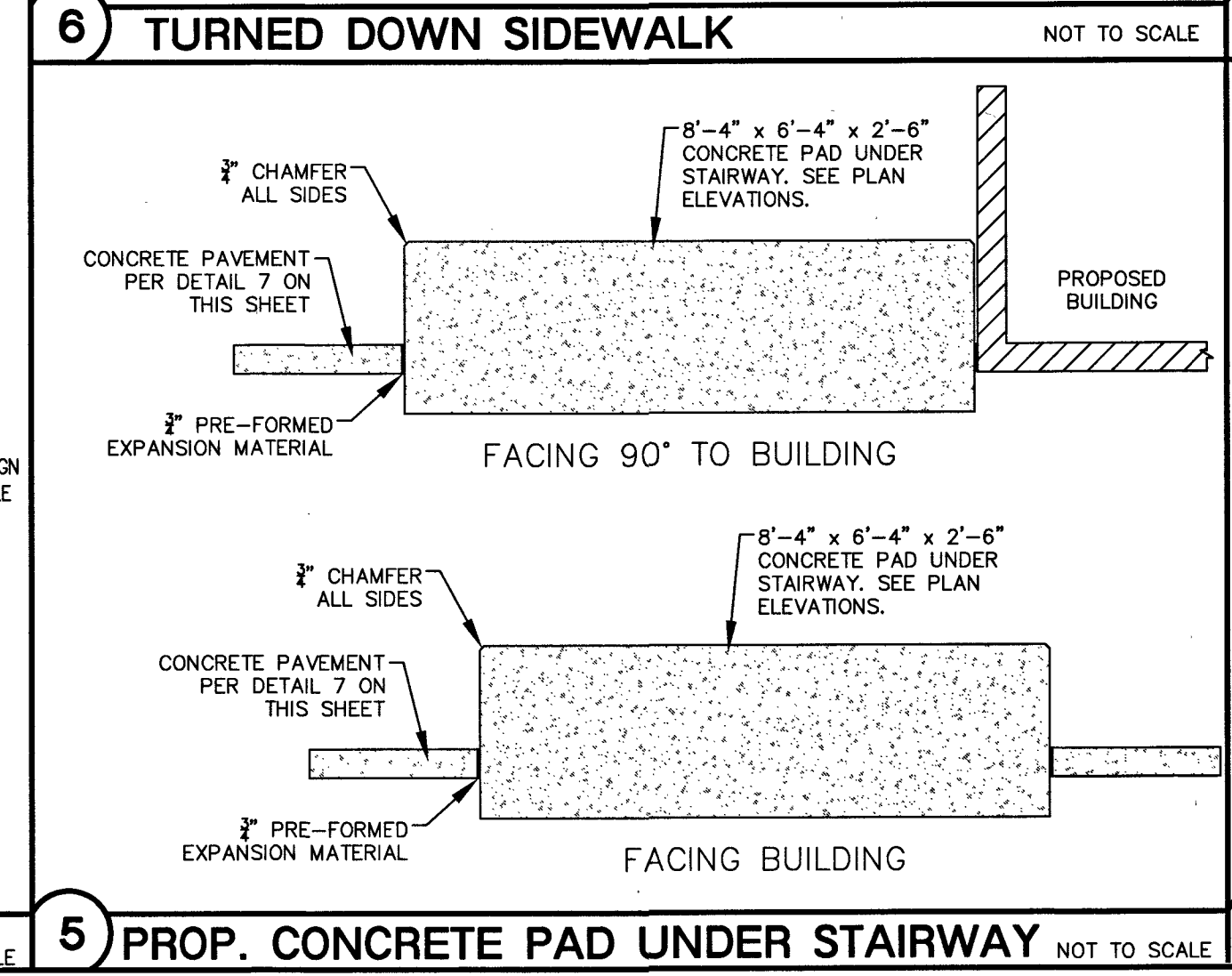
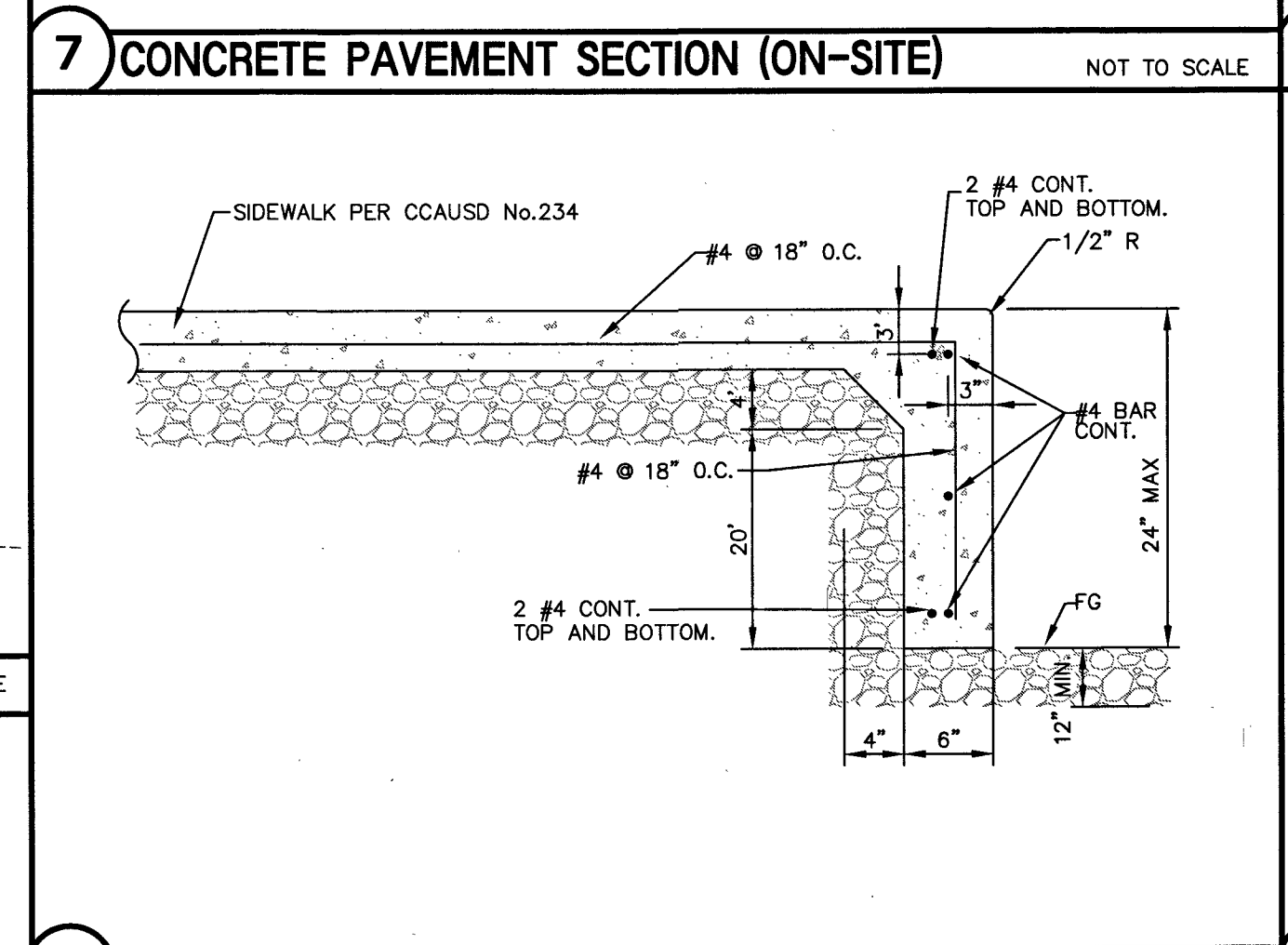
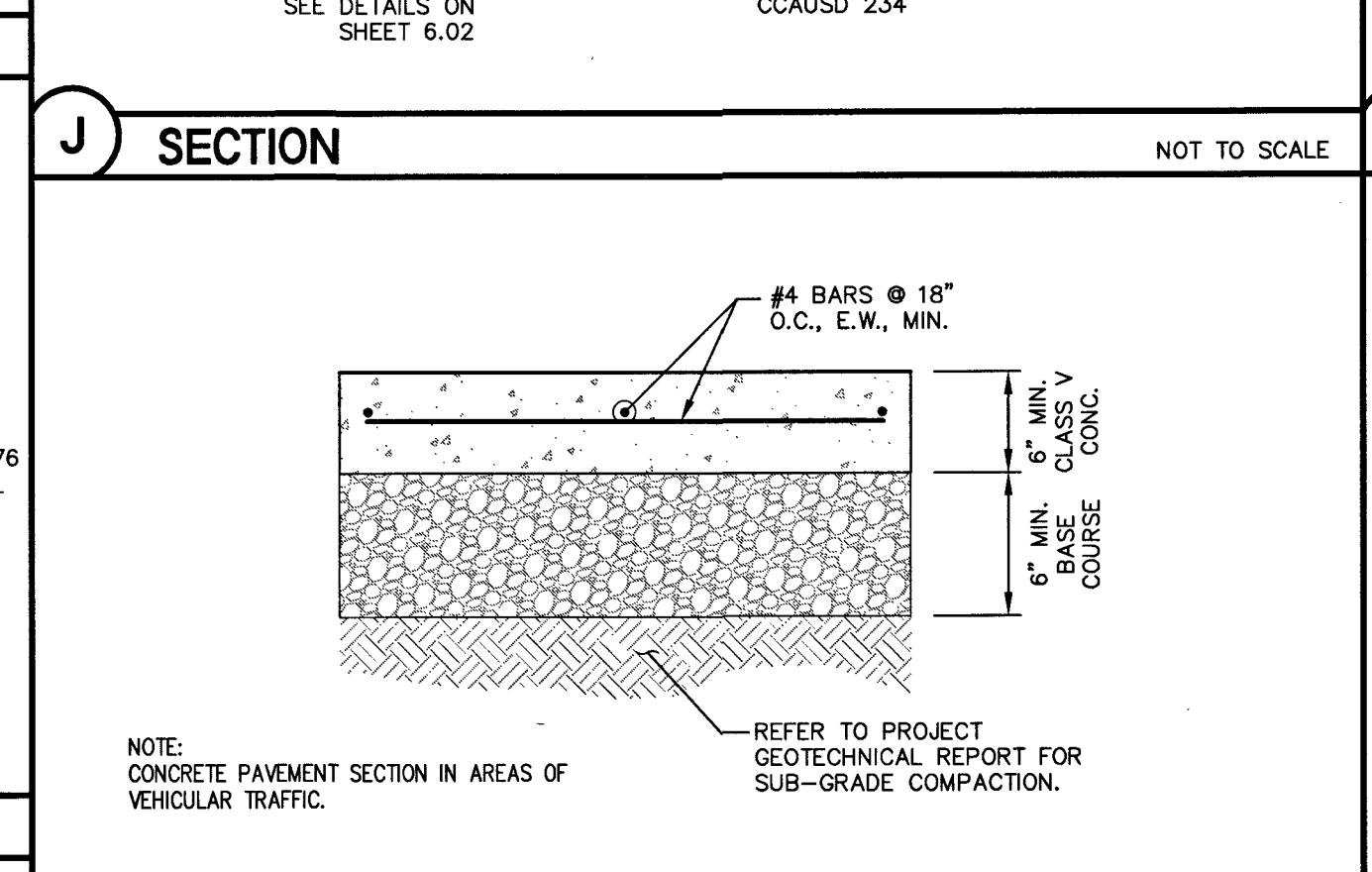
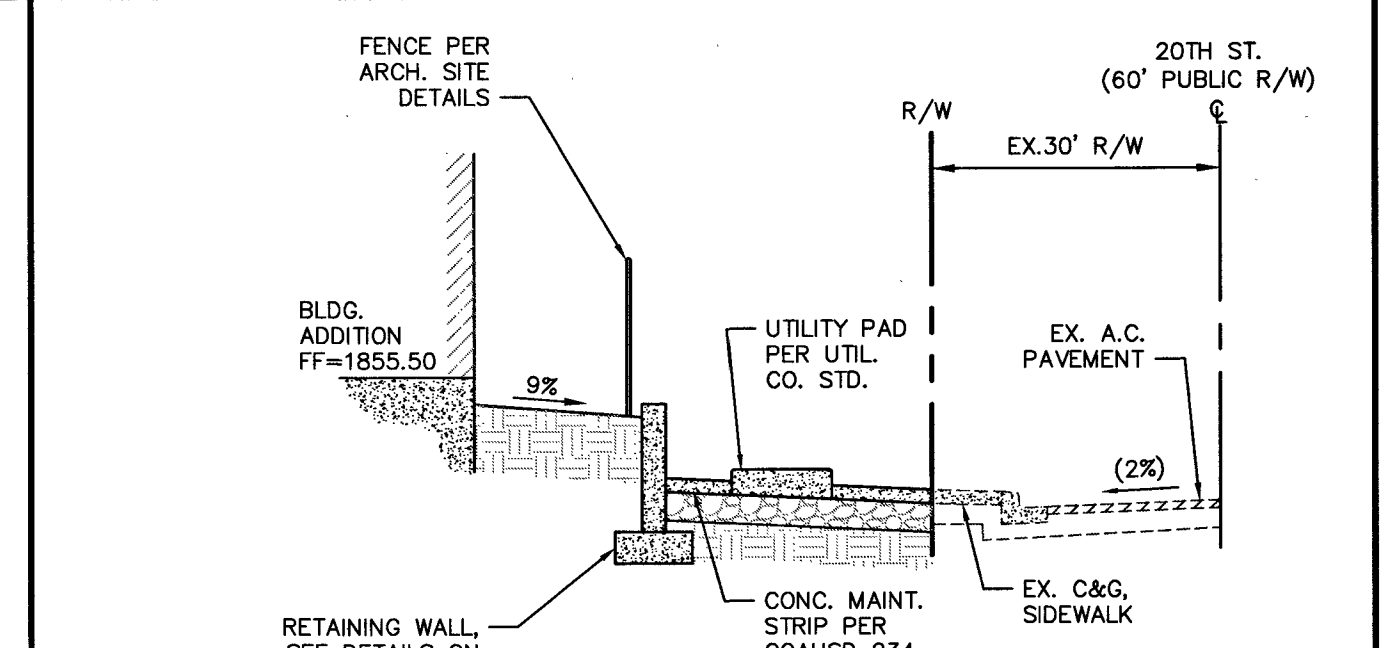
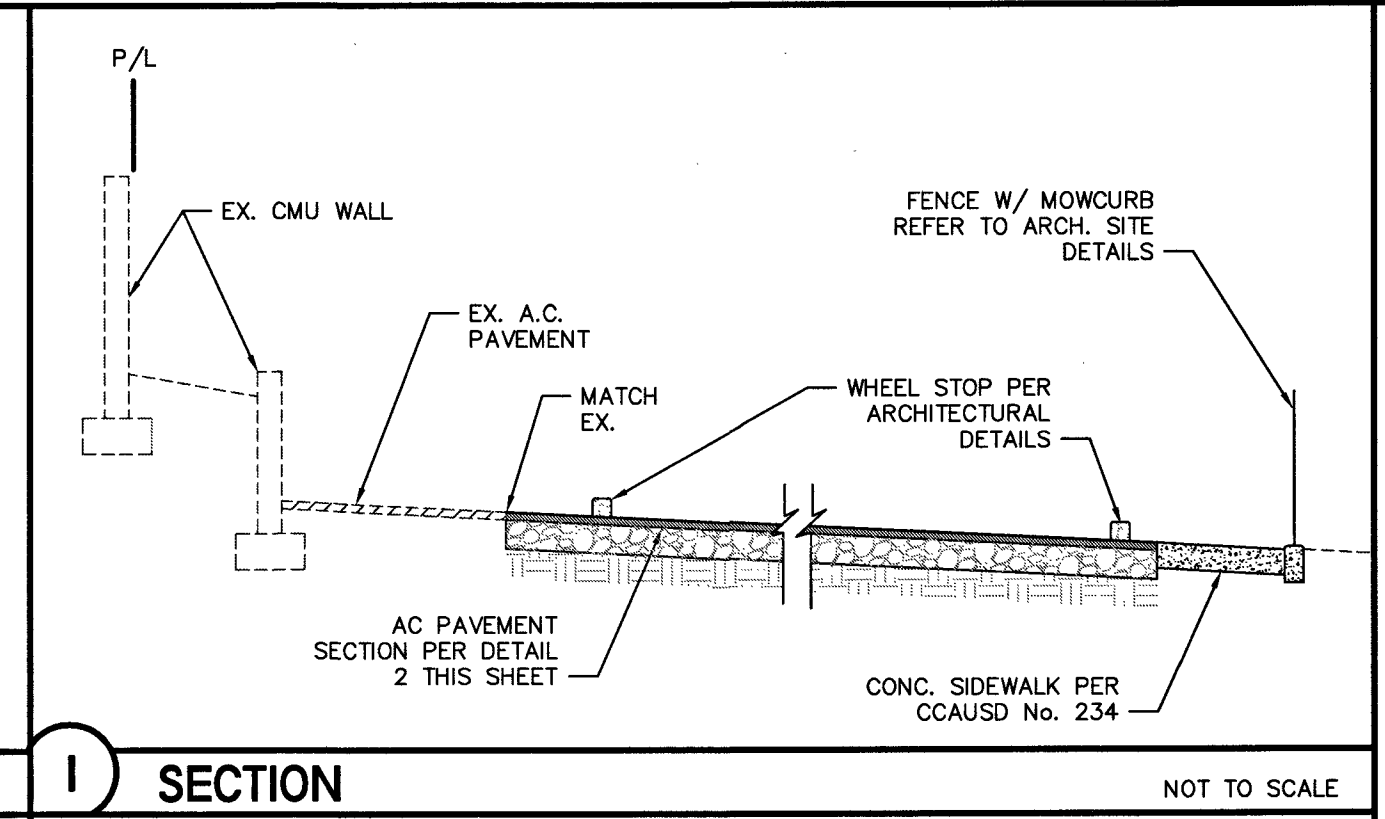
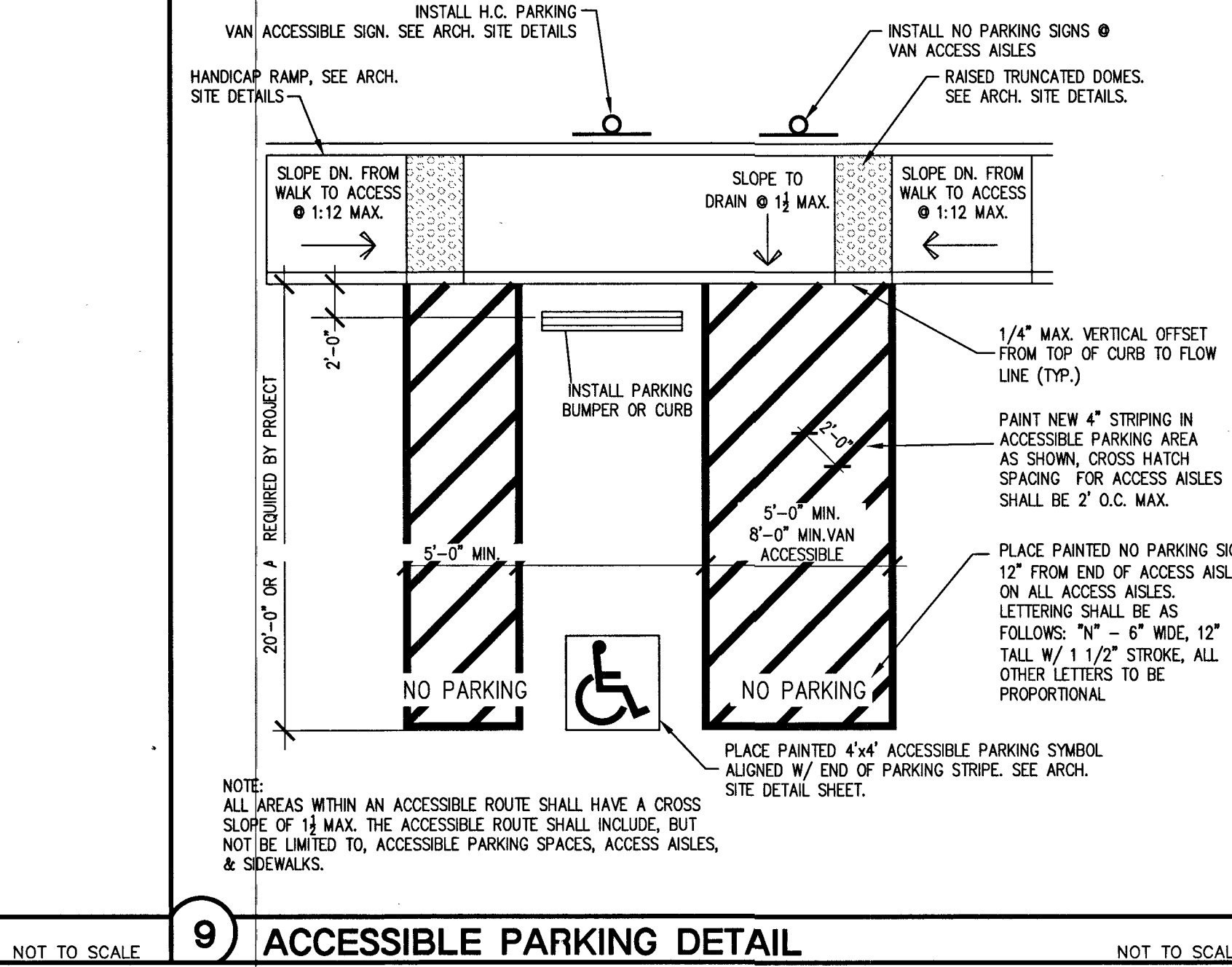
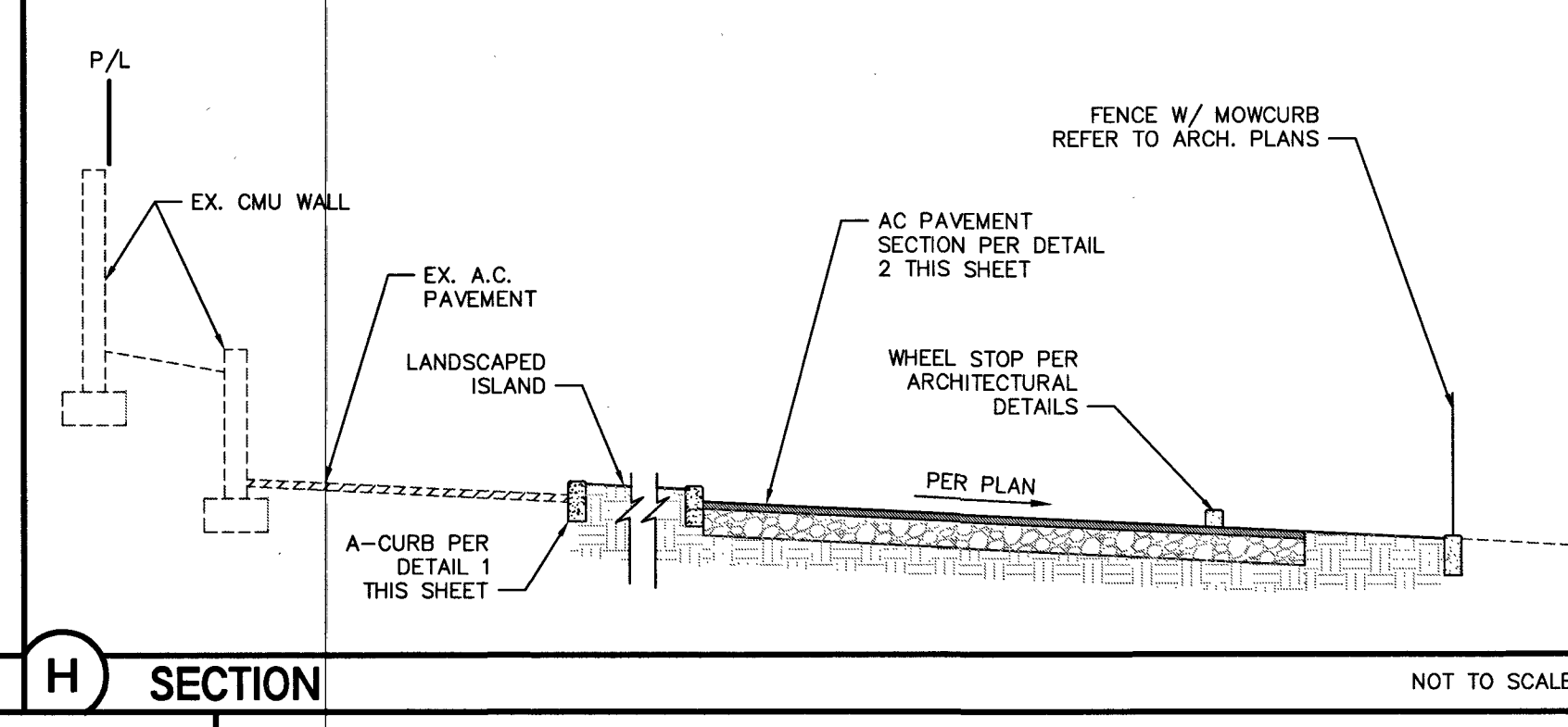
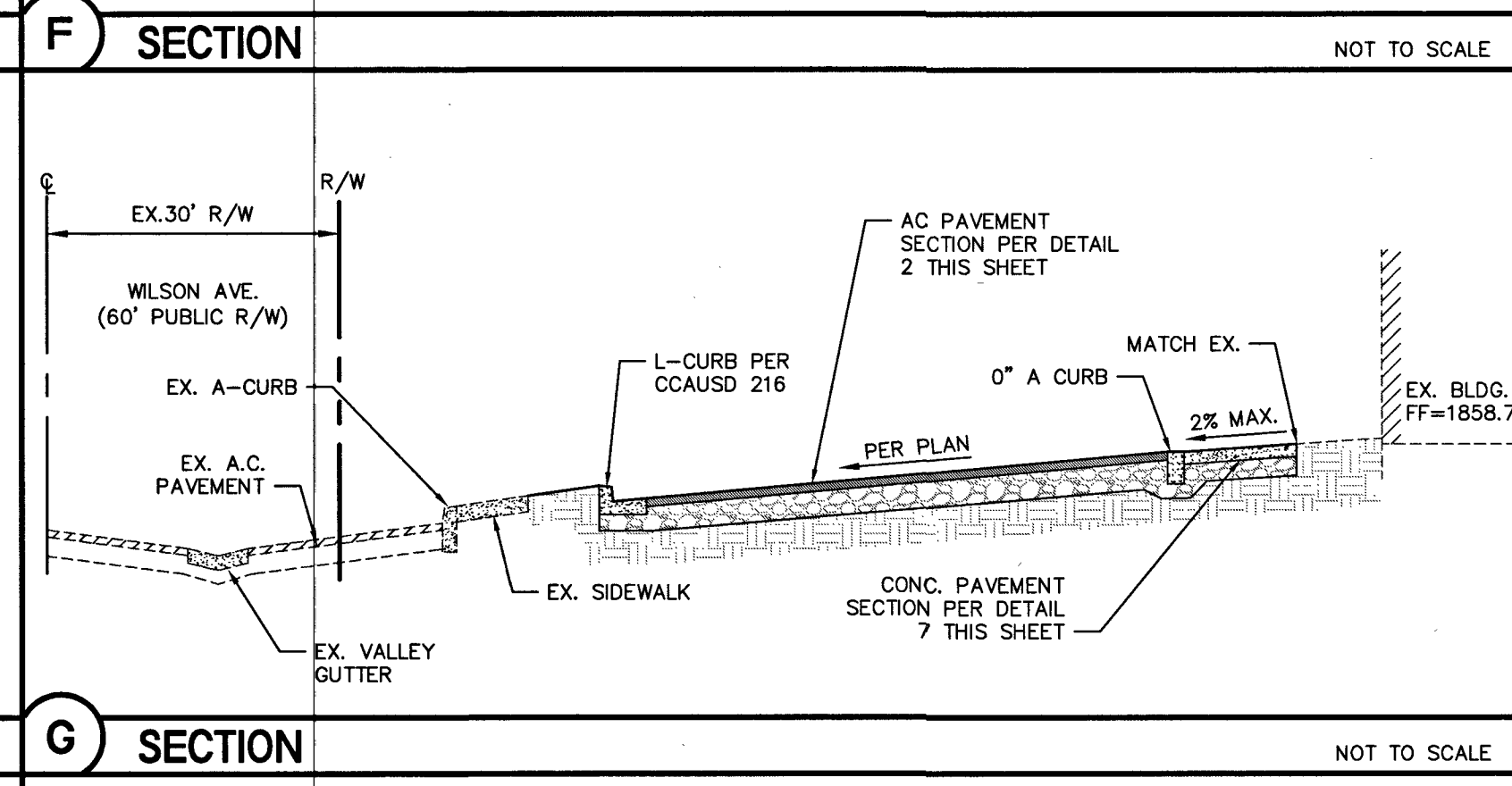
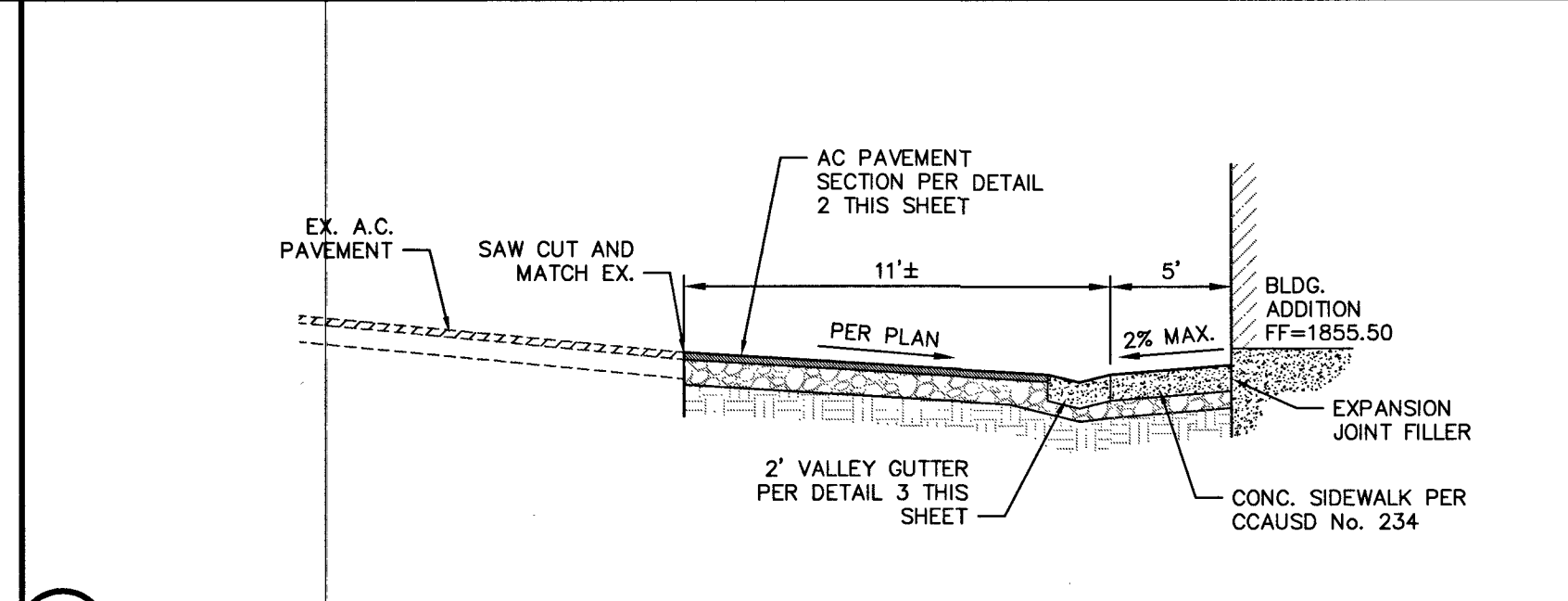
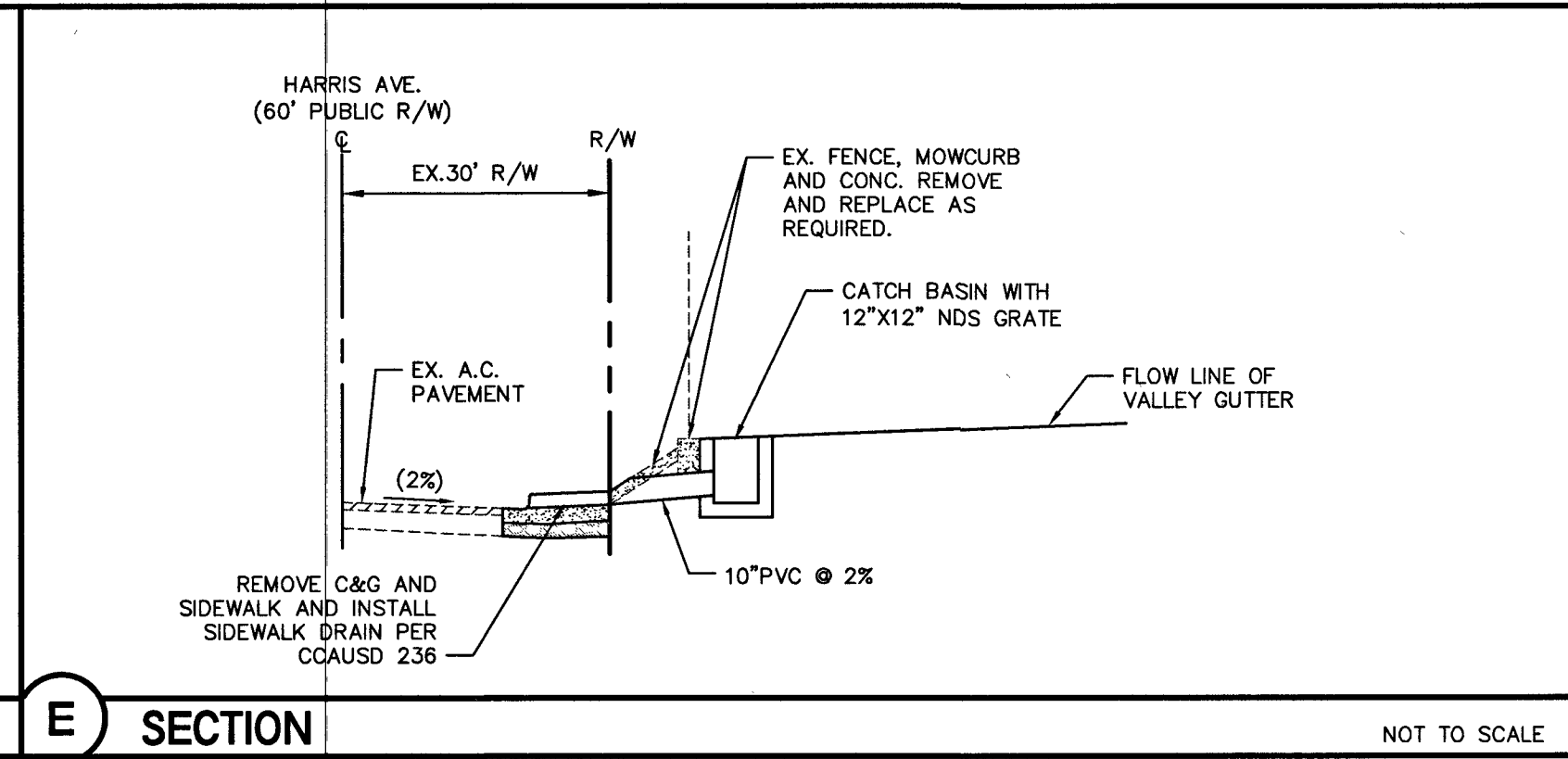
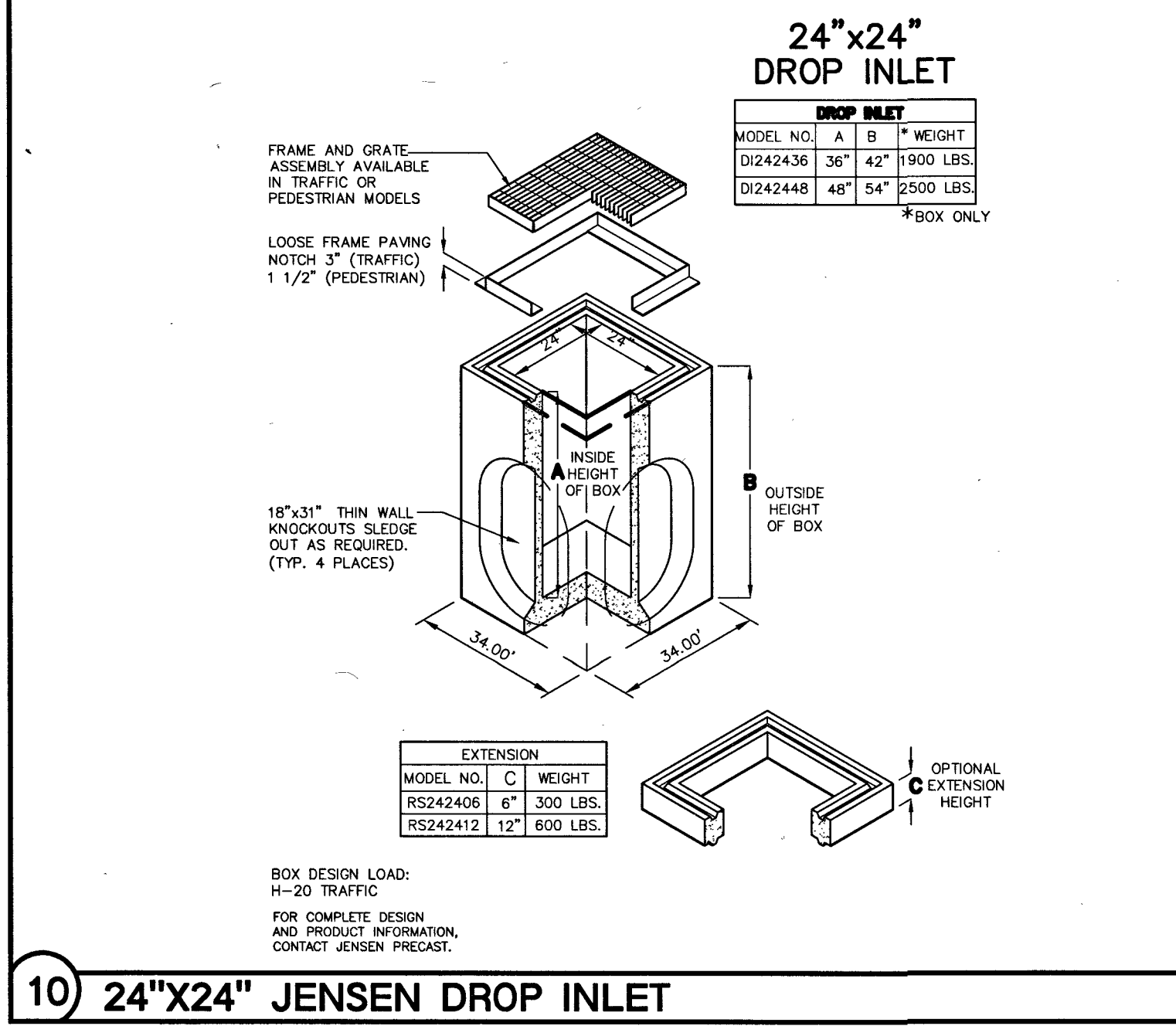
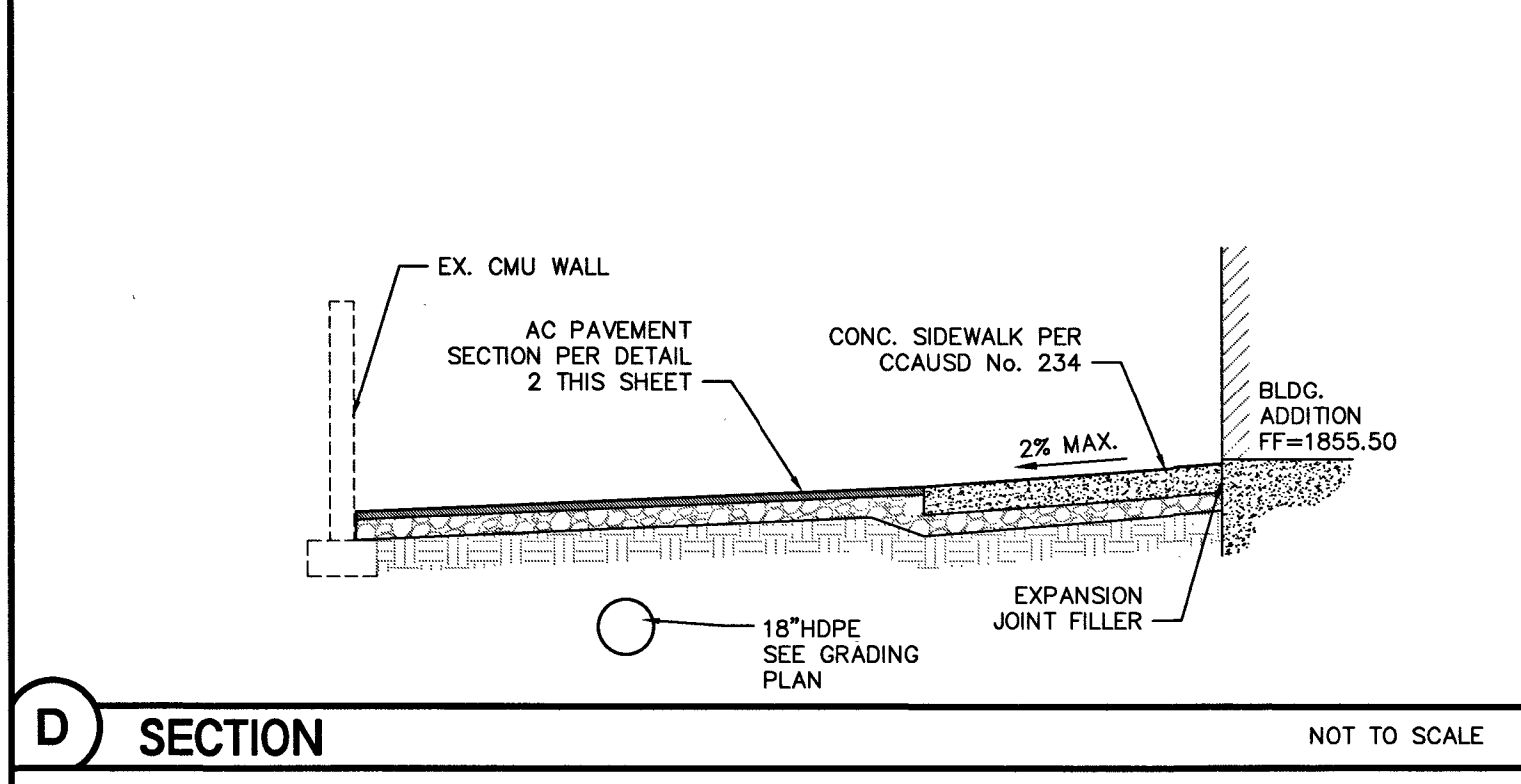
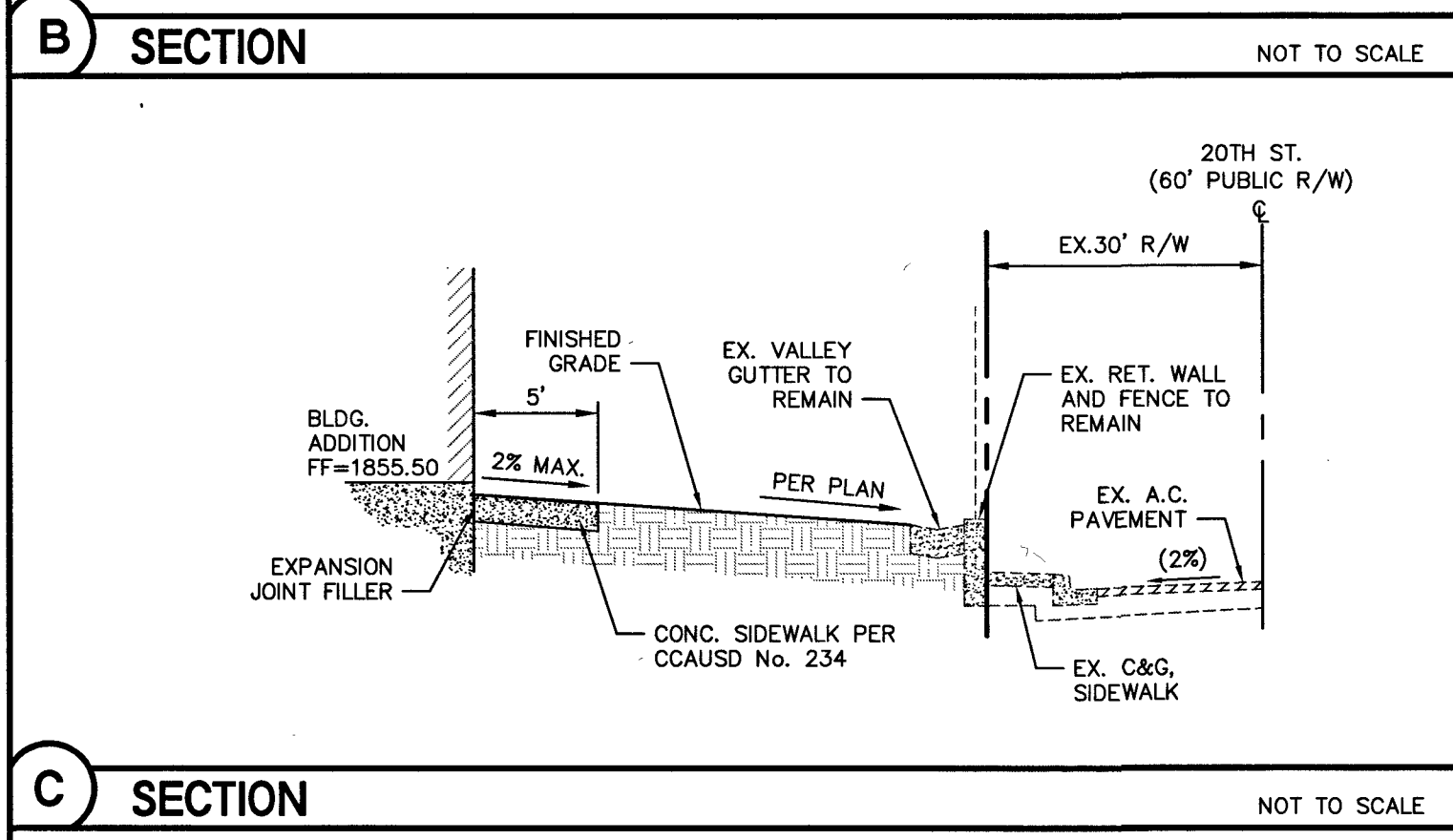
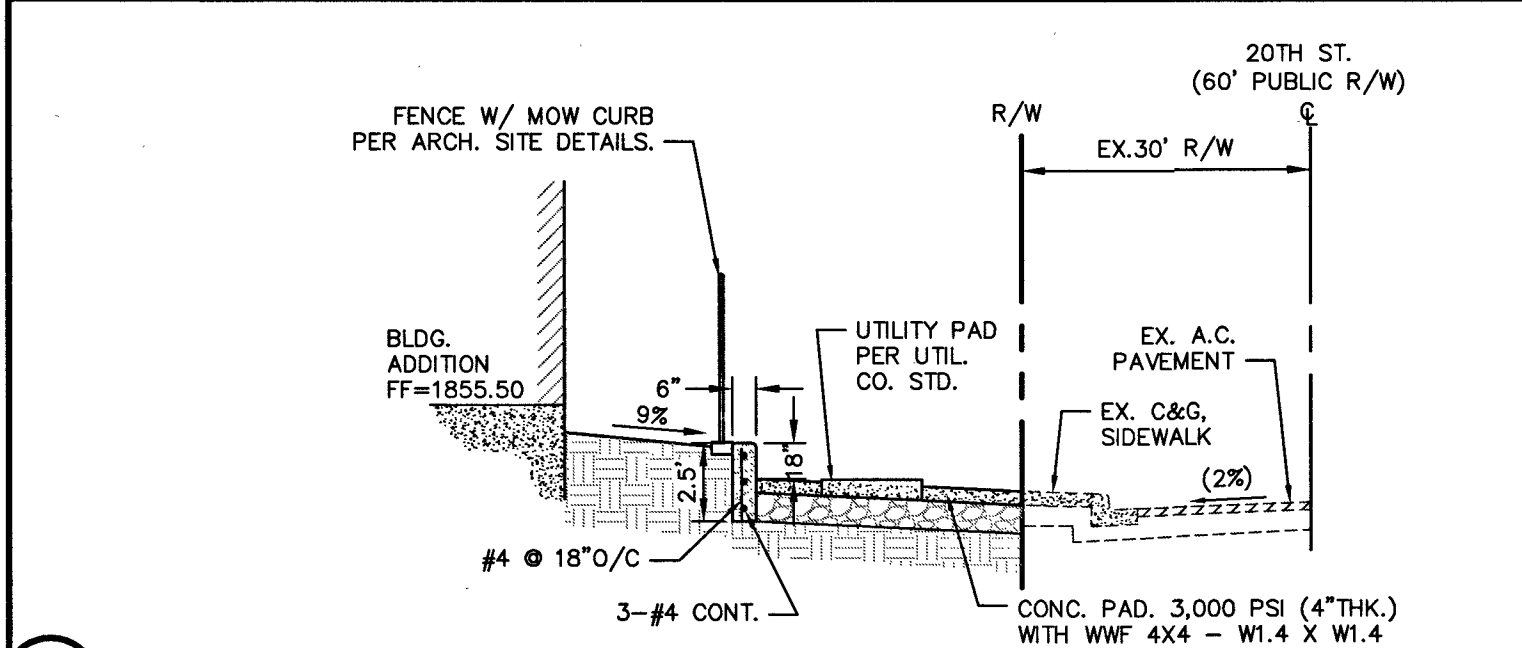
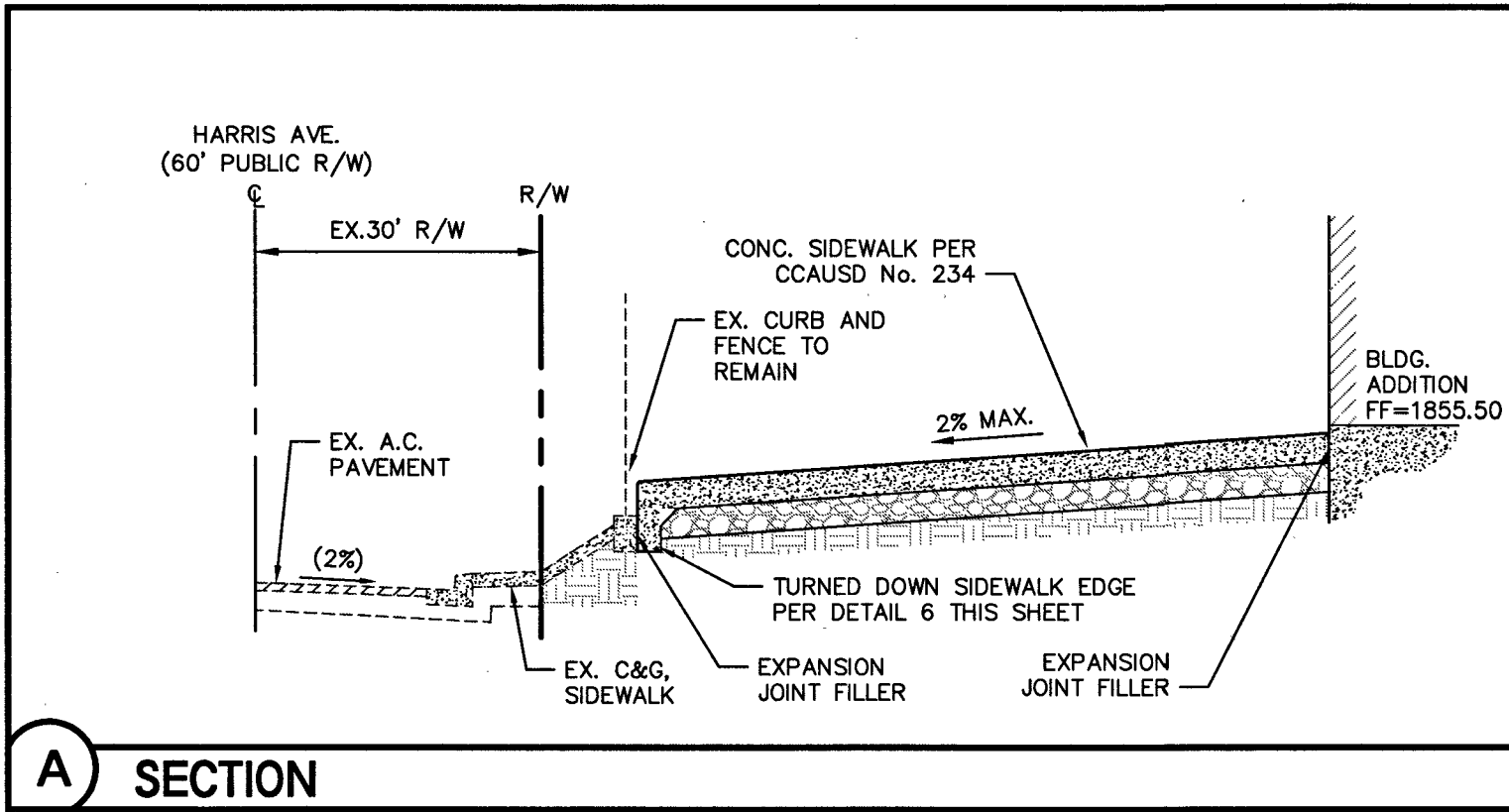
A.P.N.:
139-26-810-001

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE
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AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN
DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH
114°58' WEST OF THE GREENWICH MERIDIAN.

BENCHMARK:
BENCHMARK NO. 7, BLVOT26SS66 RIVET & PLATE TOP OF CURB
N. SIDE OF BONANZA RD. AT 1813 E. BONANZA RD. BETWEEN
BRUCE ST. & 20TH ST. ELEVATION: 566.716 METERS /
1865.86 FEET NAVD 88

LEGEND	CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION: EXISTING: PROPOSED:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	SHEET NO: C5.03 SHEET 14OF 16
	PROPERTY LINE	SAWCUT LINE		---	---	---	---	---	---	---	---	---	(12.34) BC	③	③ = SANITARY SEWER	①	②	③	④	⑤	⑥	⑦		
	ROW LINE	SCARP LINE		---	---	---	---	---	---	---	---	---	---	③	③ = STORM DRAIN ④ = ELECTRICAL ⑤ = TELEPHONE	①	②	③	④	⑤	⑥	⑦		

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REVISIONS:

REV.	DESCRIPTION	DATE
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PROFESSIONAL ENGINEER
STATE OF NEVADA
No. 14528
GUY M. MORRIS
EXP. 12-31-19

SEAL

APRIL 23, 2018

DATE

CP

DRAWN BY

171133

PROJECT NO.

ethos three
ARCHITECTURE

8885 S Eastern Avenue, Suite 220, Las Vegas, NV 89123
P: 702.456.1070 F: 702.456.1020 www.ethosthree.com

Lochsa
engineering

6345 South Jones Blvd.
Suite 100
Las Vegas, NV 89118
Phone: 702.365.6312
Fax: 702.365.6317
www.lochsa.com

ARCHITECT

CONSTRUCTION MGMT:

DATE:

COORDINATOR:

BUILDING DEPARTMENT:

CODE COMPLIANCE:

ASBESTOS WORK IS:

REQUIRED ☐ NOT REQUIRED ☐

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT 1800 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710

PROJECT:
HALLE HEWETSON E.S. BUILDING ADDITION
701 NORTH 20TH STREET, LAS VEGAS NEVADA 89101

DRAWING TITLE:
DETAIL SHEETS SHEET 1 OF 2

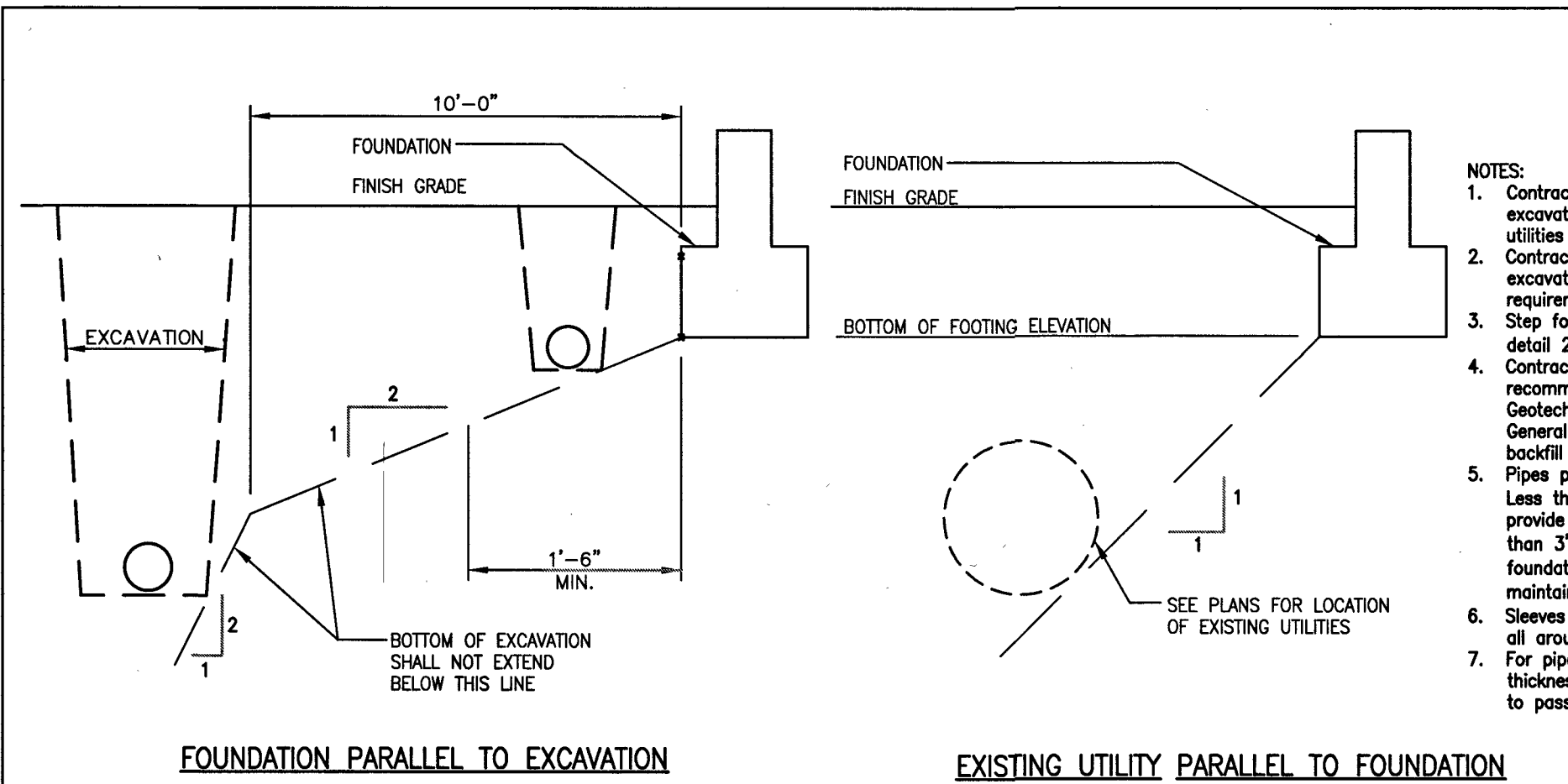
FACILITY:
CITY OF LAS VEGAS

JOB ID/MPID: MPID - 13511

CLV LI 8- 00623 715-206

SHEET NO:
C6.01

SHEET 15 OF 16



1 FOUNDATION ADJACENT TO EXCAVATIONS AND UTILITIES

BAR SIZE	LAP CLASS	TOP BARS	OTHER BARS
#3	A	18	24
#4	A	24	36
#5	A	31	46
#6	A	38	54
#7	A	46	66
#8	A	54	78
#9	A	62	88
#10	A	71	100
#11	A	80	110

NOTES:

- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3Q
- CLASS A - HALF OR LESS OF THE BARS ARE SPICED WITHIN A REQUIRED LAP LENGTH.
- CLASS B - MORE THAN HALF OF THE BARS ARE SPICED WITHIN A REQUIRED LAP LENGTH.
- HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
- FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75Q OR 12" MIN.
- LAP SPICES OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2Q FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPICED AT THE SAME LOCATION. SPICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.

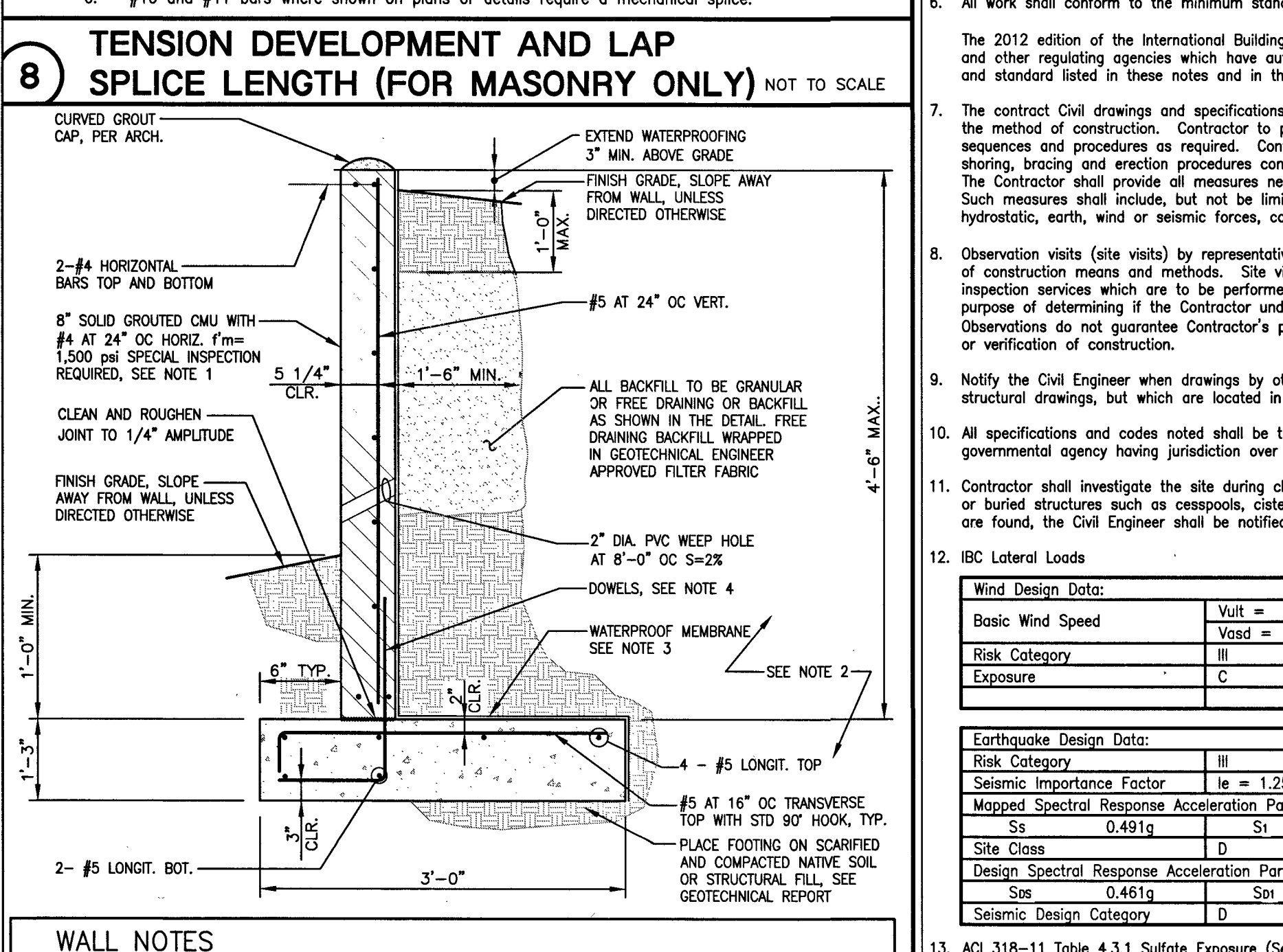
4 TENSION LAP SPICE

CMU Thickness	Masonry Design Strength	Placement of Bars	Center	Edge	Center	Edge	Center	Edge	Center	Edge	Center	Edge
#3	19	19	17	17	15	15	15	15	15	15	15	15
#4	26	30	22	26	20	23	18	21	17	20	16	19
#5	32	48	28	42	25	37	23	34	21	32	20	30
#6	58	100	50	86	45	77	41	71	38	65	36	61
#7	80	124	70	107	62	96	57	88	53	81	49	76
#8	114	152	99	131	89	117	81	107	75	99	70	93
#9	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

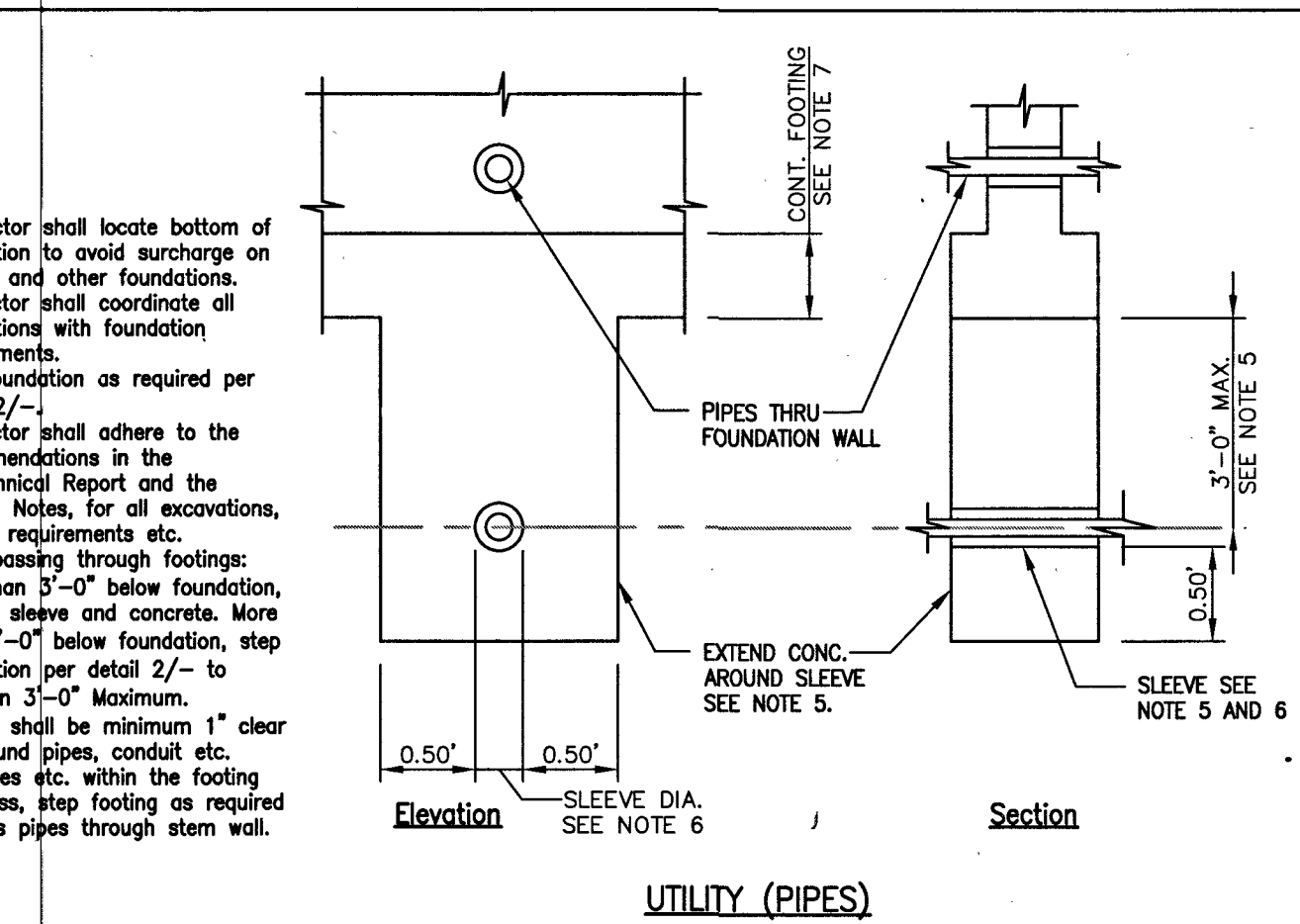
NOTES:

- All lengths are in inches.
- For bar placement, edge distance (d Dim.) see detail 5/-
- Where 2 bars per cell occur they shall be placed per edge condition see note 2.
- 6" CMU 2 bars per cell is not permitted.
- 6" CMU 2 bars per cell up to #5 are permitted.
- 10" CMU 2 bars per cell up to #7 are permitted.
- NP indicates Not Permitted.
- #10 and #11 bars where shown on plans or details require a mechanical splice.

8 TENSION DEVELOPMENT AND LAP SPICE LENGTH (FOR MASONRY ONLY)



9 RETAINING WALL SECTION WITH WEEP HOLES



5 PLAN DETAIL FOR REBAR PLACEMENT IN MASONRY

CMU (Concrete Masonry Units)					
NOMINAL THICKNESS	ACTUAL THICKNESS (t)	#3-#6	#7	#8	#9
6" CMU	5 5/8"	3.25	NP	NP	NP
8" CMU	7 5/8"	5.25	5	4.625	NP
10" CMU	9 5/8"	7.25	7	6.625	6.25
12" CMU	11 5/8"	9.25	9	8.625	8.25
16" CMU	15 5/8"	13.25	13	12.625	12.25

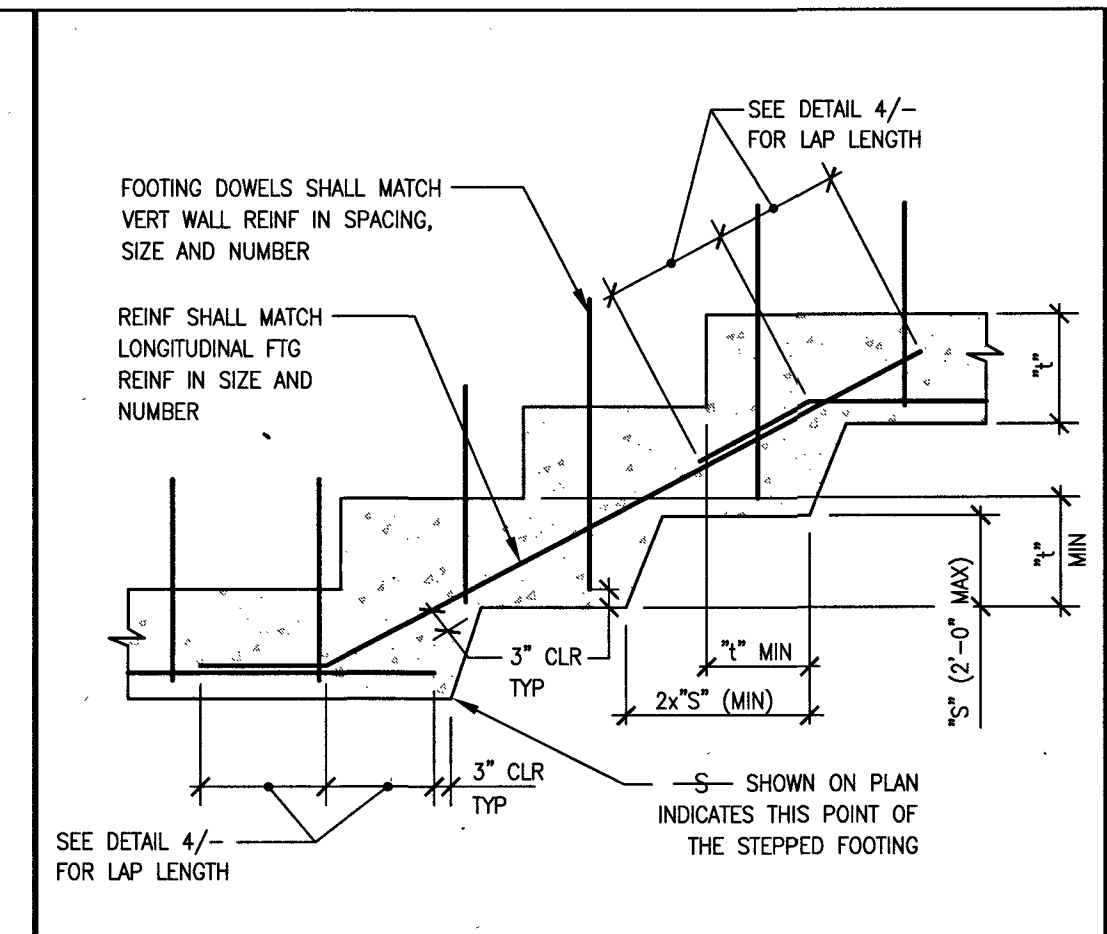
Concrete Masonry Unit			
NOMINAL THICKNESS	ACTUAL THICKNESS (t)	d (inches)	
6" CMU	5 5/8"	2.8	
8" CMU	7 5/8"	3.8	
10" CMU	9 5/8"	4.8	
12" CMU	11 5/8"	5.8	
16" CMU	15 5/8"	7.8	

NOTES:

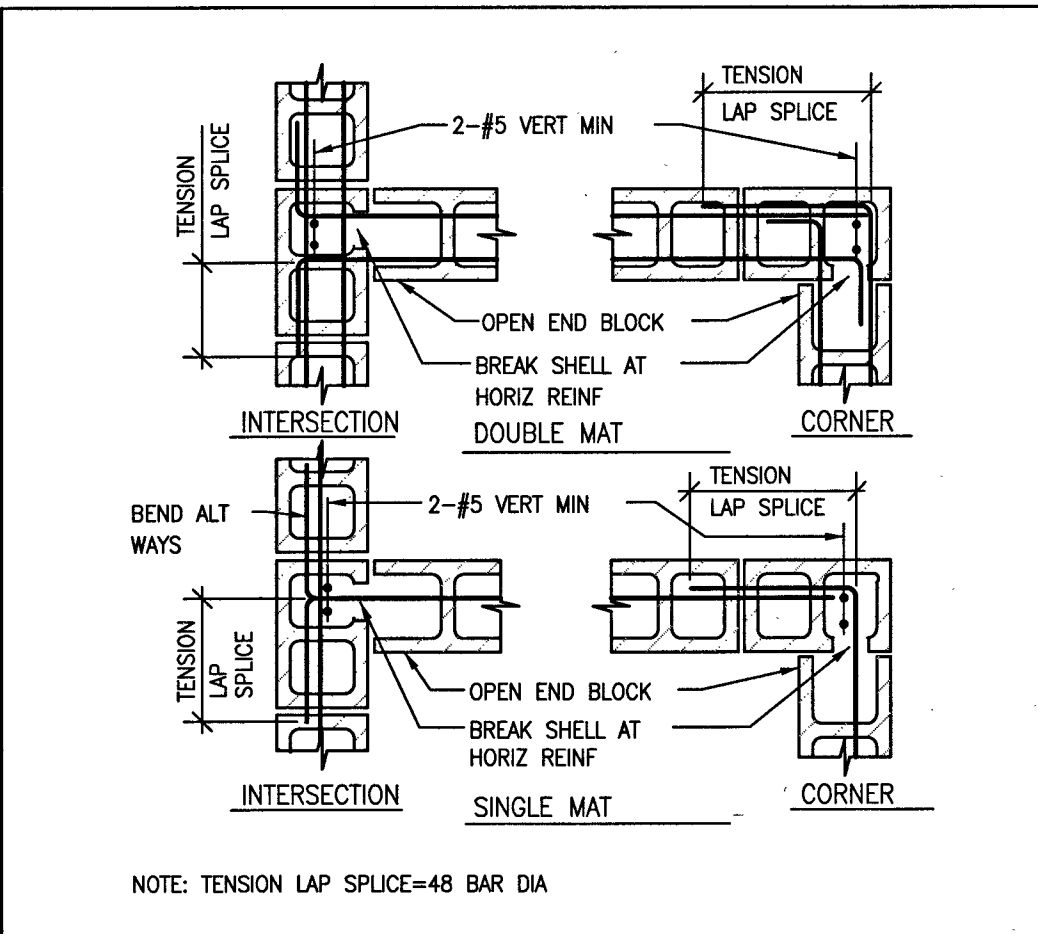
- Where vertical reinforcing bars occur in a cell, bars shall be secured in place by a bar positioner at the top and bottom, and at the intervals not exceeding 200 diameters.

5 PLAN DETAIL FOR REBAR PLACEMENT IN MASONRY

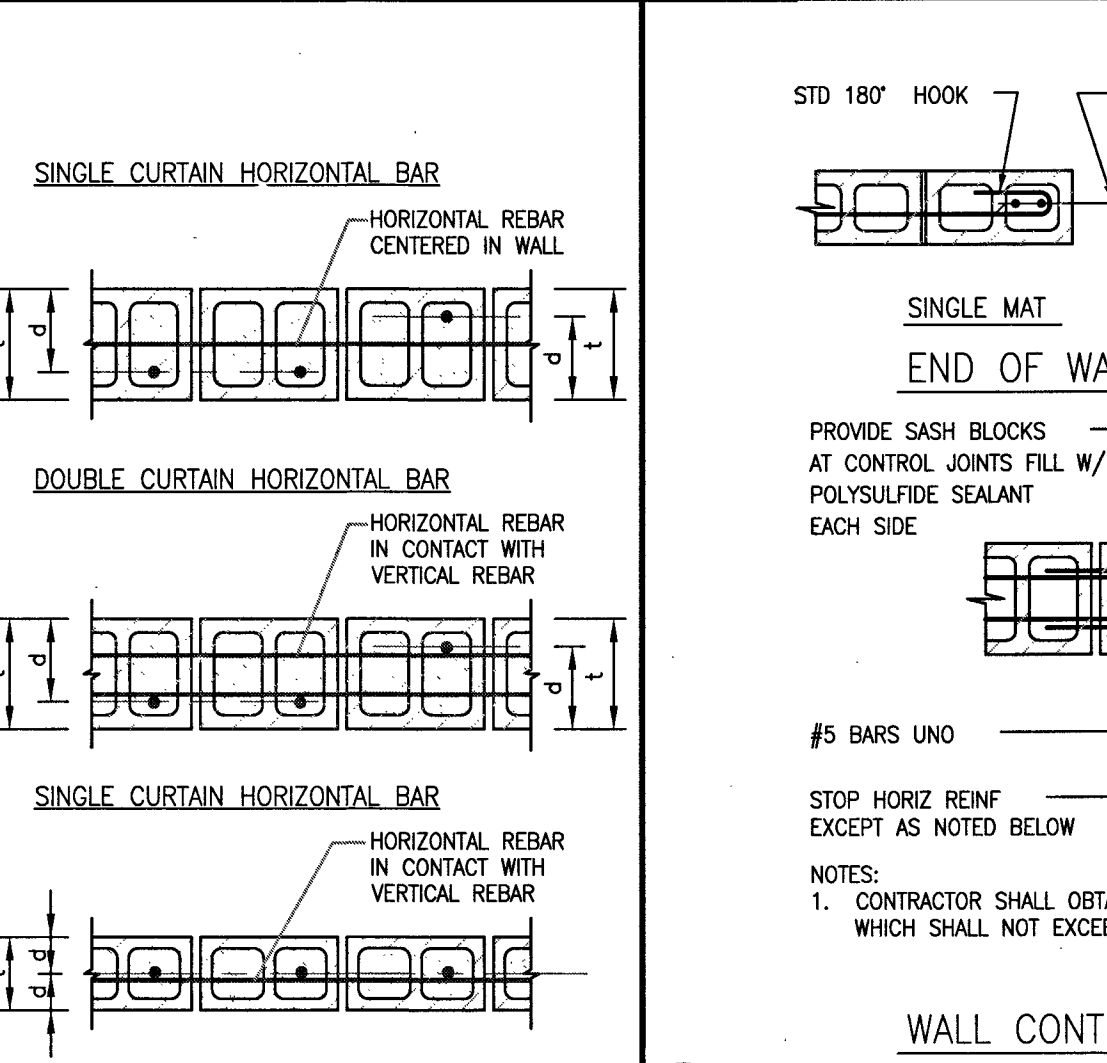
or to starting construction. The Architect shall be notified of any discrepancies or inconsistencies. shall be field verified by the Contractor and any discrepancies noted shall be reported to the Architect/Civil Engineer. precedence over these general notes, typical details, and the project specifications. not be specifically referenced on the drawings. The Contractor is responsible to determine where each typical detail or schedule applies. If locations are found where no typical detail, typical schedule, or specific detail applies, notify the Architect/Civil Engineer. ards of following codes: The 2012 edition of the International Building Code (IBC), including Southern Nevada amendments and other regulating agencies which have authority over any portion of the work, and those codes and standard listed in these notes and in the project specifications. represent the finished structure. They do not indicate the method of construction. Contractor to provide construction means, methods, techniques, sequences and procedures as required. Contractor to provide adequate excavation procedures, shoring, bracing and erection procedures complying with national, state and local safety ordinances. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to hydrostatic, earth, wind or seismic forces, construction equipment, etc. ves of Architect/Civil Engineer do not include inspection of construction means and methods. Site visits during construction are not continuous and detailed inspection services which are to be performed by others. Observations are performed solely for the purpose of determining if the Contractor understands design intent shown in the contract drawings. Observations do not guarantee Contractor's performance and are not to be construed as supervision or verification of construction. thers show openings, pockets, etc., not shown on the structural drawings, but which are located in the structural members. he latest approved editions and revisions by the governmental agency having jurisdiction over this project. clearing and earth work operations for filled excavations or buried structures such as seeps, cisterns, foundations, utilities, etc. If any such structures are found, the Civil Engineer shall be notified immediately.	Quality Assurance for General Construction Testing Laboratory: Retained by owner and satisfactory to Architect/Civil Engineer and governing code authority to perform required tests and inspections of this contract and applicable code. Material Certification: Submit laboratory test reports certifying materials are of identifiable tested stock to owner, testing laboratory, Architect/Civil Engineer and, upon request, to governing code authority. If laboratory test reports cannot be made available, testing laboratory will perform tests as directed by Architect/Civil Engineer. Contractor shall pay testing laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without laboratory test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials. Special inspection in accordance with the requirements of IBC section 1704 and 1705 shall be required for the following elements of general construction. - Concrete. - Testing laboratory will review concrete mix design data and will perform the following concrete tests at frequency indicated in ACI section 5.6: - Slump tests in compliance with ASTM C143. - Prepare four test cylinders for compressive strength testing in compliance with ASTM C39, ACI 318 and ACI section 5.6. Test one cylinder at 7 days, two cylinders at 28 days and retain remaining cylinder for tests until completion of project. Determine concrete compressive strength at 28 days based on average of two cylinders tested. - Entrained air content in compliance with ASTM C231 for air entrained concrete. - Bolts and embedded pipes installed in concrete. - Reinforcing and mechanical reinforcing bar splices: - During placement. - Structural Masonry - Excavation and back-filling.																				
15 mph 80 mph 5 rameters 0.164g rameters 0.235g ee General Notes – Concrete Item #3 for concrete	Foundation - The design of the foundation system is based on the geotechnical report by the following company: <table border="1"> <tr> <td>Company:</td> <td>Geotechnical & Environmental</td> </tr> <tr> <td>Report no:</td> <td>20174234E1</td> </tr> <tr> <td>Dated:</td> <td>09-22-2017</td> </tr> </table> Copies are available for review at the Architect's office and jobsite. - The foundation system is designed based on the following: <table border="1"> <tr> <td>Allowable Soil Bearing Pressure</td> <td>2000 psf</td> </tr> <tr> <td>Continuous Footings</td> <td>38 pcf</td> </tr> <tr> <td>Spread Footings</td> <td>58 pcf</td> </tr> <tr> <td>Equivalent Fluid Pressure Unconstrained</td> <td>350 pcf</td> </tr> <tr> <td>Equivalent Fluid Pressure Constrained</td> <td>390 pcf</td> </tr> <tr> <td>Passive Pressure</td> <td>0.39</td> </tr> <tr> <td>Friction Coefficient</td> <td></td> </tr> </table> A 1/3 increase is allowed for seismic or wind loading where appropriate. - The Contractor shall provide for proper dewatering of excavations, seepage, etc. - The Contractor shall provide for the installation and design of retaining walls required to safely and adequately retain the earth banks and structures in accordance with all national, state and local safety ordinances. - All abandoned utilities, footings, etc., that interfere with the Notify the Structural Engineer should any foundations for existing structures are not shown on the structural drawings. - Footings shall be placed and estimated according to depths for footings shall be approved by the Geotechnical Engineer for inspection. The Contractor shall notify the Geotechnical Engineer for inspection. The Geotechnical Engineer shall submit a letter to the Structural Engineer should soil encountered at these depths not be approved by elevations or footing designs will be altered by change orders for inspection. The Geotechnical Engineer shall provide a letter to the building permitter shall be mechanically compacted in layers by Engineer. See geotechnical report for requirements. Flooding - Sub-base below, slabs on grade shall be supported on not shown in the geotechnical report. See typical details and geotechnical sub-base requirements.	Company:	Geotechnical & Environmental	Report no:	20174234E1	Dated:	09-22-2017	Allowable Soil Bearing Pressure	2000 psf	Continuous Footings	38 pcf	Spread Footings	58 pcf	Equivalent Fluid Pressure Unconstrained	350 pcf	Equivalent Fluid Pressure Constrained	390 pcf	Passive Pressure	0.39	Friction Coefficient	
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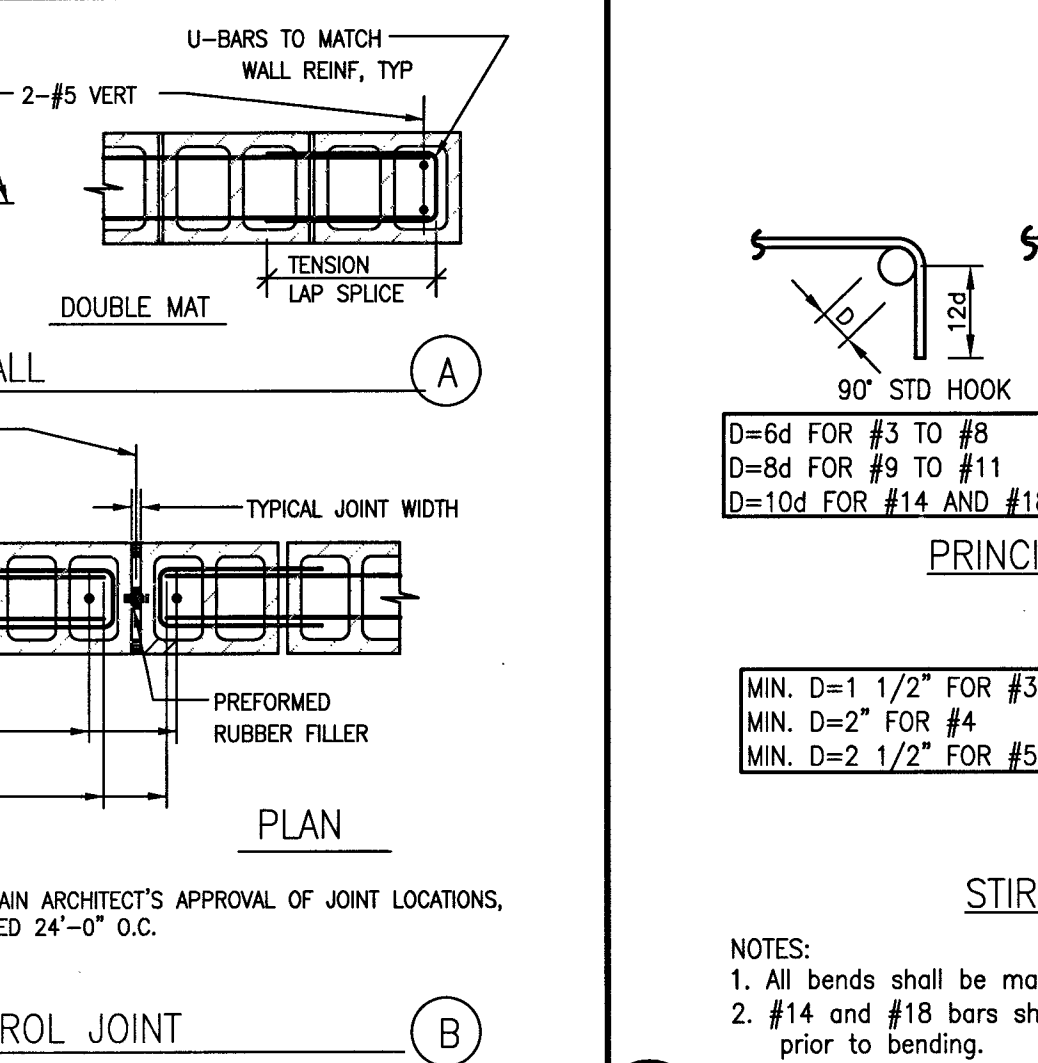
2 STEPPED FOOTING



3 CMU WALL INTERSECTIONS



6 MASONRY WALL DETAILS



7 BAR BENDS

REVISIONS:

REV.	DESCRIPTION	DATE

SEAL: GUY M. MORRIS CIVIL EXP. 12-31-19 No. 14524 State of Nevada

DATE: APRIL 23, 2018

DRAWN BY: CP

SUBMITTAL: 171133

X/E PROJECT NO.

NOTE: L18-00623 Approval of this submittal does not constitute approval of structural design

ethos three ARCHITECTURE

Lochsa Engineering

6345 South Jones Blvd. Suite 100 Las Vegas, NV 89119

Phone (702) 365-9312 Fax (702) 366-9317 www.lochsa.com

CONSULTANT:

CONSTRUCTION MGMT: DATE:

COORDINATOR:

BUILDING DEPARTMENT: CODE COMPLIANCE: AHERA REVIEW:

ASBESTOS WORK IS: REQUIRED NOT REQUIRED

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT 1800 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8770

PROJECT: HALLE HEWETSON E.S. BUILDING ADDITION 701 NORTH 20TH STREET, LAS VEGAS NEVADA 89101

DETAIL SHEETS SHEET 2 OF 2

FACILITY: CITY OF LAS VEGAS

JOB ID/MPID: MPID - 135111

CLV L18-00623 715-206

SHEET NO: C6.02

SHEET 180F 16