

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES (LD)

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
- CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2800
STREETLIGHTS 1-702-229-6331
F.A.S.T. 1-702-432-5300
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENERALLAC SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.
4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE I.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS WITH 10 AMP FUSES, THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623 T.02.16 OF THE SPECIAL PROVISIONS.
8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
9. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.
10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
11. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH IN2 PUSH BUTTON STATIONS AND SHELF-MOUNT BIU CONTROL UNIT WITH SOLC CABLE) OR CAMPBELL COMPANY WAPPS WIRELESS PEDESTRIAN PUSHBUTTON SYSTEM WITH APC IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3E PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"x12" SIGN, AND SHALL BE ABOVE SIDEWALK RAMP. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMP SHALL BE ACCORDING TO U.S.S. NO. 235 91-4) LATEST EDITION. MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL, AND ANY REQUIRED HARNESSSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.
12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACES OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
13. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-3 SIGNAL HEAD. WHERE FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12F "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.
14. TRAFFIC SIGNAL CABINET SHALL BE A TYPE VII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS, SHALL BE A 48 DETECTOR CHANNEL R CABINET AND SHALL INCLUDE TWO (2) RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS, WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE AND 4 CHANNEL SLOTS THAT CAN ACCOMMODATE VIDEO DETECTION CARDS. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR IN A 768 RACK, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES.
15. THE CONTRACTOR SHALL SUPPLY A MAINTENANCE MANAGEMENT UNIT (MMU) AND TRAFFIC SIGNAL CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME. FOR TESTING AND PROGRAMMING PURPOSES, THE CONTROLLER SHALL BE A NAZTEC 980 ATC TS2 TYPE 2 NTCIP COMPLIANT SIGNAL CONTROLLER WITH INSTALLED AND LICENSED APOGEE CONTROLLER SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO ABE, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO, AND PICKUP THE CONTROLLER AT 2985 RONEMUS DRIVE. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6076) SEVEN DAYS PRIOR TO PICKUP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL OF MMU OR CONTROLLER OR MMU AFTER THE PROJECT IS ACCEPTED.
16. CONTRACTOR SHALL POT-HOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
17. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER. THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES", AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
18. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON," "HAND," AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-400-VEIL OR DIALIGHT MODEL #430-6479-001X, OR APPROVED EQUAL. THE "COUNTDOWN" MESSAGE SHALL NOT FLASH. WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.

19. VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2 WITH EDGECONNECT PAK, (IP ADDRESSABLE); PEEK VIDEOTRAK 10 (WITH ETHERNET PORT); OR TRAFICON VIP WITH VIEWCOM (IP ADDRESSABLE). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS, ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE," KEYPAD, OR LAPTOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCS) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 8281 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND COAXIAL CABLE INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AB-0185-5-82 OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
20. WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 T.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. ALL WIRING HARNESSSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
21. OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE. THE SOUTHBOUND OPTICOM DETECTOR SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE 768 AIP.
22. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
23. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
24. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
25. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
26. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED 02/27/18

ABBREVIATIONS

●	AT	EP	EDGE OF PAVEMENT	PP	POWER POLE
AC	ASPHALTIC CONCRETE	EX	EXISTING	PVC	POLYVINYL CHLORIDE
ACP	ASBESTOS CEMENT PIPE	FG	FINISH GRADE	RW	RETAINING WALL
AVE	AVENUE	FH	FIRE HYDRANT	R/W	RIGHT-OF-WAY
BC	BACK OF CURB	FF	FINISH FLOOR	STL	STREETLIGHT
BGR	BACK OF CURB RETURN	FL	FLOW LINE	SQ YD, SY	SQUARE YARD
C&G	CURB AND GUTTER	FT	FEET OR FOOT	SS	SANITARY SEWER
CL	CENTERLINE	GB	GRADE BREAK	SDW	SIDEWALK
CLV	CITY OF LAS VEGAS	INV	INVERT	TC	TOP OF CURB
CO	CLEAN OUT	LIN FT	LINEAR FOOT	TMH	TOP OF MANHOLE
CU YD, CY	CUBIC YARD	LWWD	LAS VEGAS VALLEY	TRANS	TRANSITION
CU FT, CF	CUBIC FOOT	MAX	MAXIMUM	TYP	TYPICAL
DRWY	DRIVEWAY	PB	PULL BOX	VCP	VITRIFIED CLAY PIPE
EA	EACH	PL	PROPERTY LINE	VG	WATER GUTTER
EL	ELEVATION			WM	WATER METER

LEGEND

DESCRIPTION	PROPOSED	EXISTING
ELEVATION	XX.XX TC	(XXX.XX) TC
CENTERLINE	---	---
RIGHT OF WAY	---	---
PROPERTY LINE	---	---
CONSTRUCTION	---	-----
CONTOUR	100	200
WALL	12" XXX SS	12" SS
SEWER MAIN (12" AND SMALLER)	12" XXX WATER MAIN	12" W
WATER MAIN (12" AND SMALLER)	18" XXX WATER MAIN	18" W
WATER MAIN (ABOVE 12")		
GAS		2" GAS
STREETLIGHT CONDUIT		STL
TRAFFIC CONTROL SIGN		
100 W LUMINAIRE		
250 W LUMINAIRE		
VALVE		
FIRE HYDRANT		
CURB & GUTTER		
SIDEWALK RAMPS		
SIGHT VISIBILITY RESTRICTION ZONE (S.V.R.Z.)		

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. FIRST APPROVED DATE:

SAMMY'S FOOD SERVICE INC.

GENERAL NOTES
& ABBREVIATIONS

SAMMY'S FOOD SERVICE
63 N. 30TH STREET

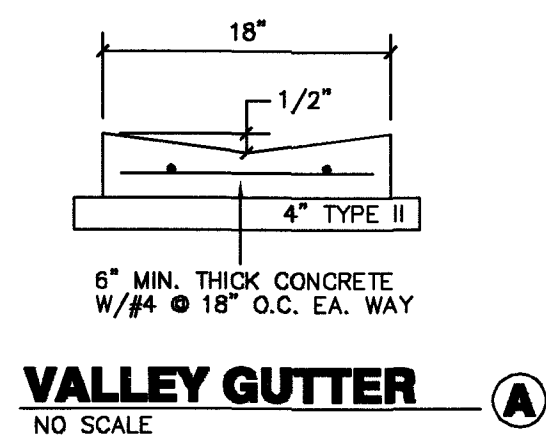
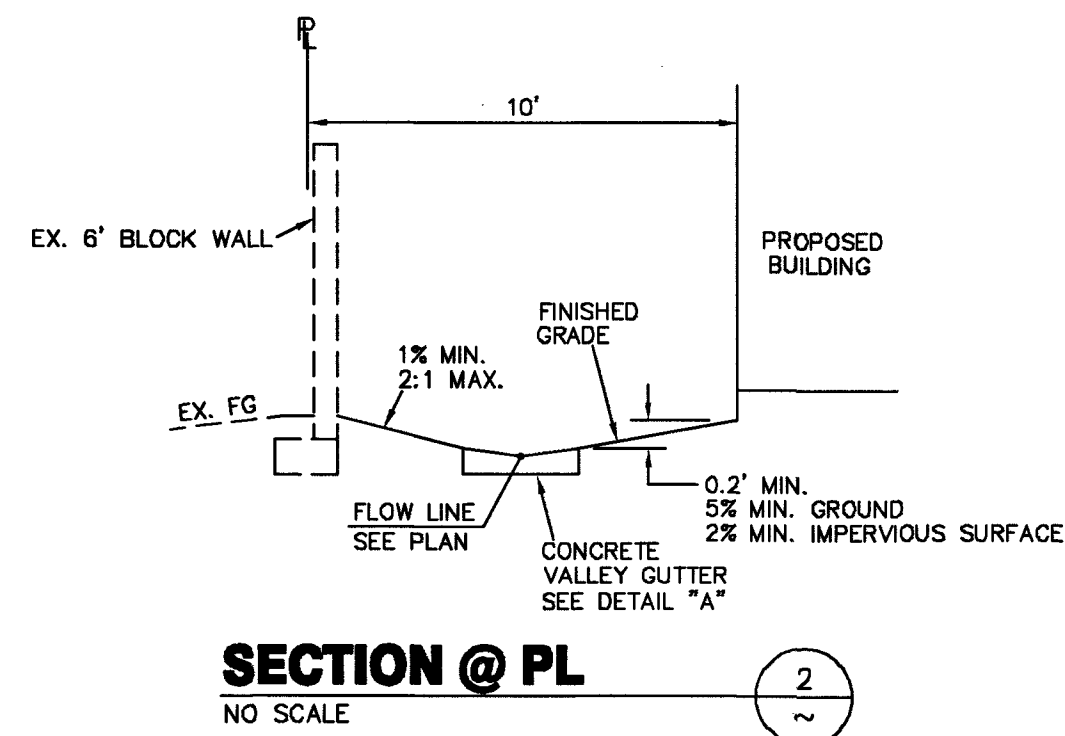
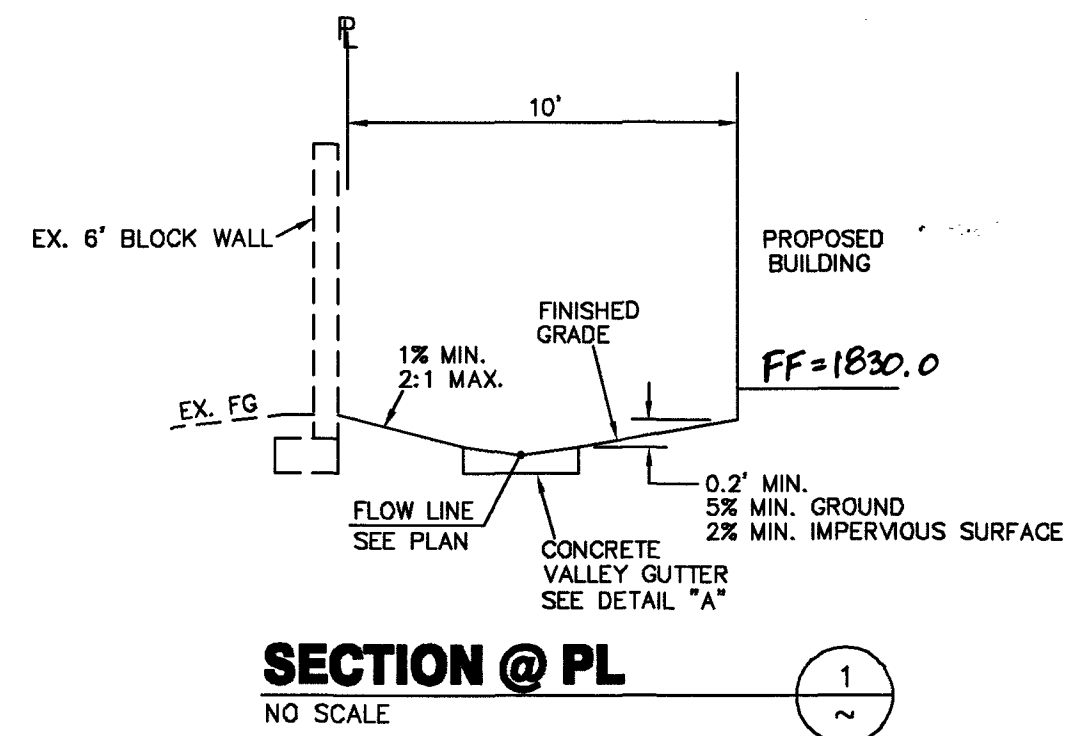
DRAWN BY: R. J. LANGAN
DESIGNED BY: R. J. LANGAN
CHECKED BY: R. J. LANGAN
PROJECT NO.: SAMMY-1
SCALE: 1" = 20' HOR.
1" = 2' VER.

SEAL
ENGINEER
ROBERT J. LANGAN
Exp: 12-31-18
CIVIL

SHEET
C3
3 OF 5 SHEETS
DRAWING NO.

116-02487

107V 7085



FLOOD ZONE INFO

FLOOD ZONE X
FIRM PANEL 2186 MAP #320032186F
MAP REVISED NOVEMBER 16, 2011
ZONE X IS DETERMINED TO BE OUTSIDE THE
0.2% ANNUAL CHANCE FLOOD PLAIN.

BENCHMARK

BM NO. 2LV013654
ELEVATION = 1825.67' // 556.465M
RIVET AND SQUARE ALUM PLATE IN T/C,
NORTHWEST CORNER OF CHARLESTON BLVD.
AND MOJAVE ROAD
NAVD'88

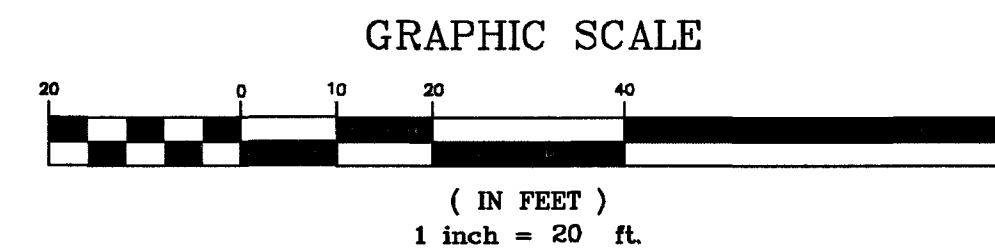
BASIS OF BEARINGS

NORTH 00°08'12\"/>

LEGAL DESCRIPTION

BEING LOT 2 OF PARCEL MAP FILE 58 PAGE 50, LOCATED
WITHIN THE SW 1/4 SECTION 36, TOWNSHIP 20 SOUTH,
RANGE 61 EAST, M.D.M. (APN 139-36-402-006)

APN 139-36-402-006



PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 1366175 FIRST APPROVED DATE: 10-9-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM
SPECIAL SHALLOW MH "B" (PUBLIC)
SHEETS: C-1, C-2, C-3, C-4

FIRE FLOW CALCULATIONS

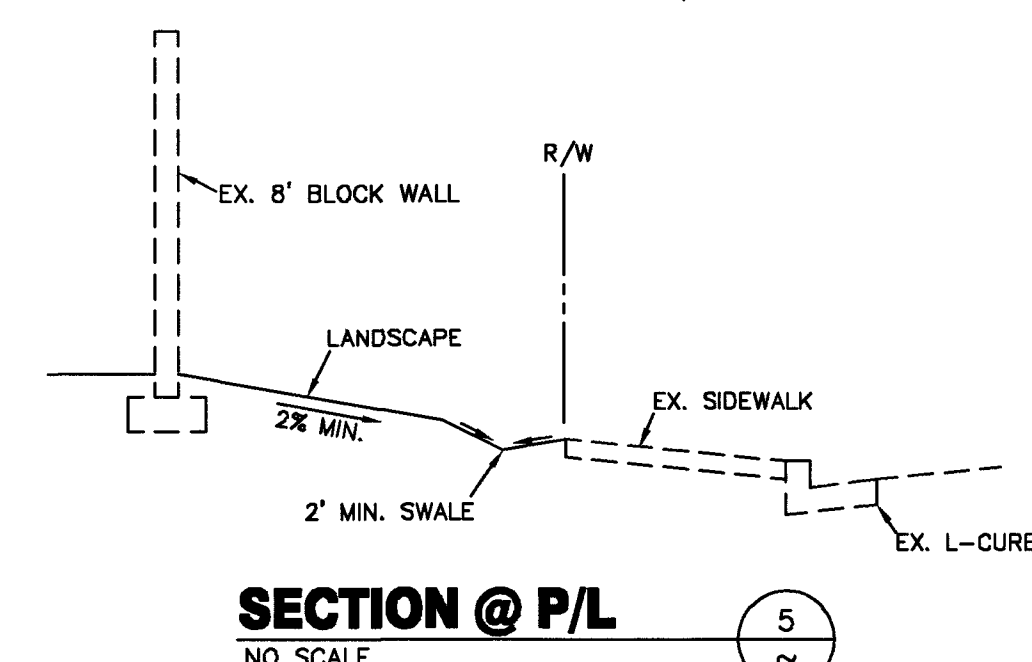
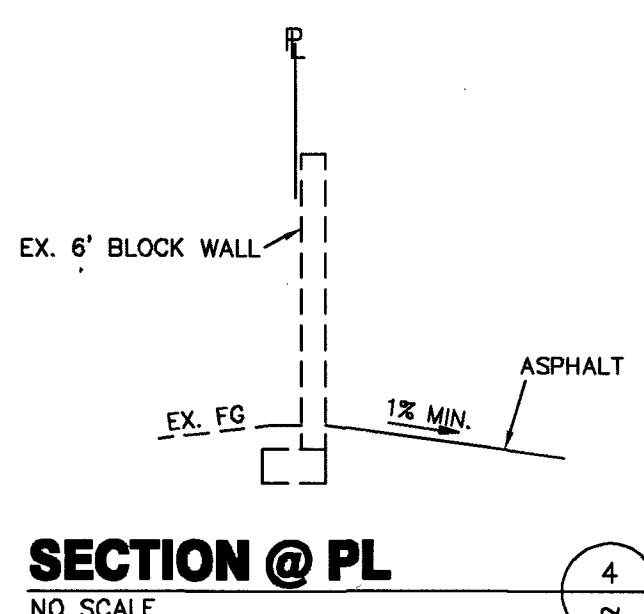
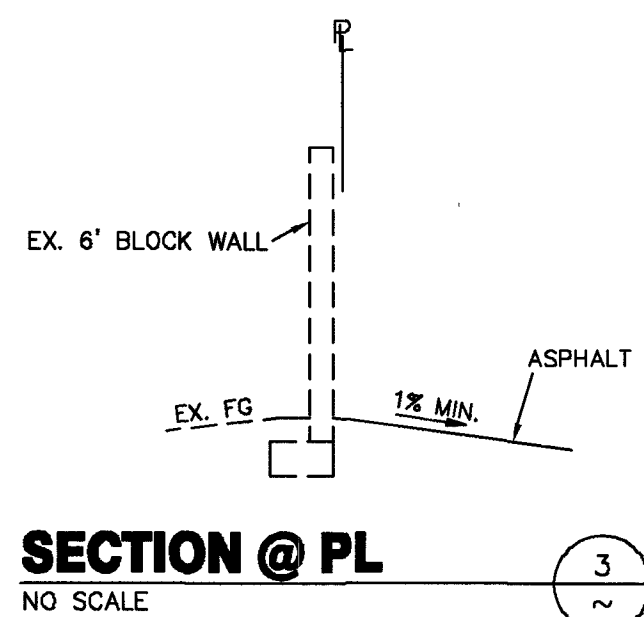
FIRE FLOW REQUIREMENT IS: 1500 GALLONS PER MINUTE
AT 20 PSI RESIDUAL PRESSURE

BASED ON:

SQUARE FOOTAGE: 4,500 SF
LARGEST AREA BETWEEN 4-HOUR: 4,500 SF
AREA SEPARATION WALLS:
BUILDING HEIGHT: 21.5 FT.
NUMBER OF STORIES: 1 FLOOR
TYPE OF CONSTRUCTION: III - B
OCCUPANCY: S-2
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO

REVIEWED BY: *[Signature]* DATE: 10-7-19

[Signature] 10-7-19
LAS VEGAS FIRE & RESCUE DATE



CONSTRUCTION NOTES

- SAWCUT & PATCH EX. AC PER CCAUSD 500.5. TRENCH BACKFILL PER CCAUSD 503.2. A.C. PATCHES MUST BE MACHINE LAID.
- SAWCUT EX. SIDEWALK & CONSTRUCT 5' SIDEWALK PER CCAUSD 234.
- SAWCUT EX. CURB & CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD 218.
- SAWCUT & PATCH EX. AC PER CCAUSD 500.4. TRENCH BACKFILL PER CCAUSD 503.2. A.C. PATCHES MUST BE MACHINE LAID.
- SAWCUT & REMOVE EX. CROSS GUTTER AND CONSTRUCT 8' CROSS GUTTER PER CCAUSD 228.

ACCESSIBILITY NOTES

- 8' X 20' H/C PARKING SPACE W/MAX. 2% SLOPE
- 8' X 20' PAINTED VAN ACCESS AISLE W/MAX. 2% SLOPE
- 5' X 20' PAINTED VAN ACCESS AISLE W/MAX. 2% SLOPE
- MIN. 3' WIDE ADJACENT ASPHALT OR CONCRETE W/MAX. 2% SLOPE. ELEVATION FLUSH WITH PARKING.
- MIN. 3'X3' TURN AREA W/MAX. 2% SLOPE
- MIN. 3' WIDE PAINTED ACCESS W/MAX. 5% SLOPE & MAX. 2% CROSS SLOPE

SAMMY'S FOOD SERVICE INC.
6127 ROCKY TOP AVENUE
LAS VEGAS, NV 89110
TEL (702) 210-0032

PLOT & GRADING PLAN
& UTILITIES

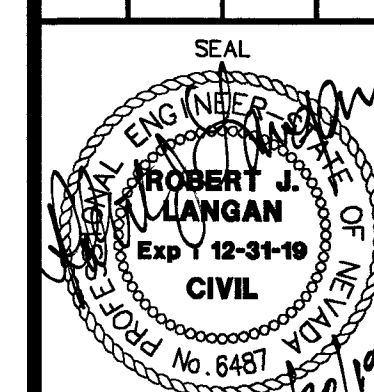
SAMMY'S FOOD SERVICE
63 N. 30TH STREET

DRAWN BY:
R. J. LANGAN

DESIGNED BY:
R. J. LANGAN

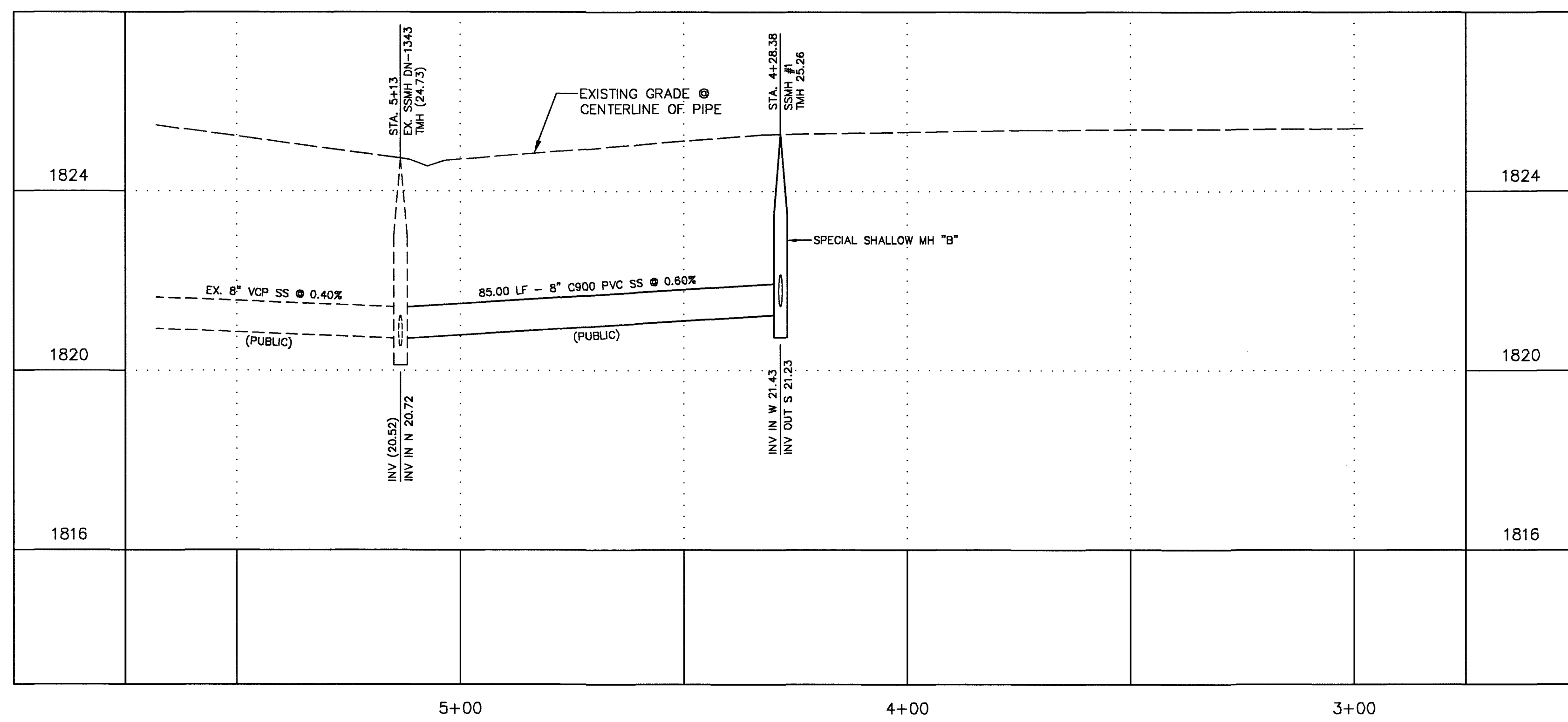
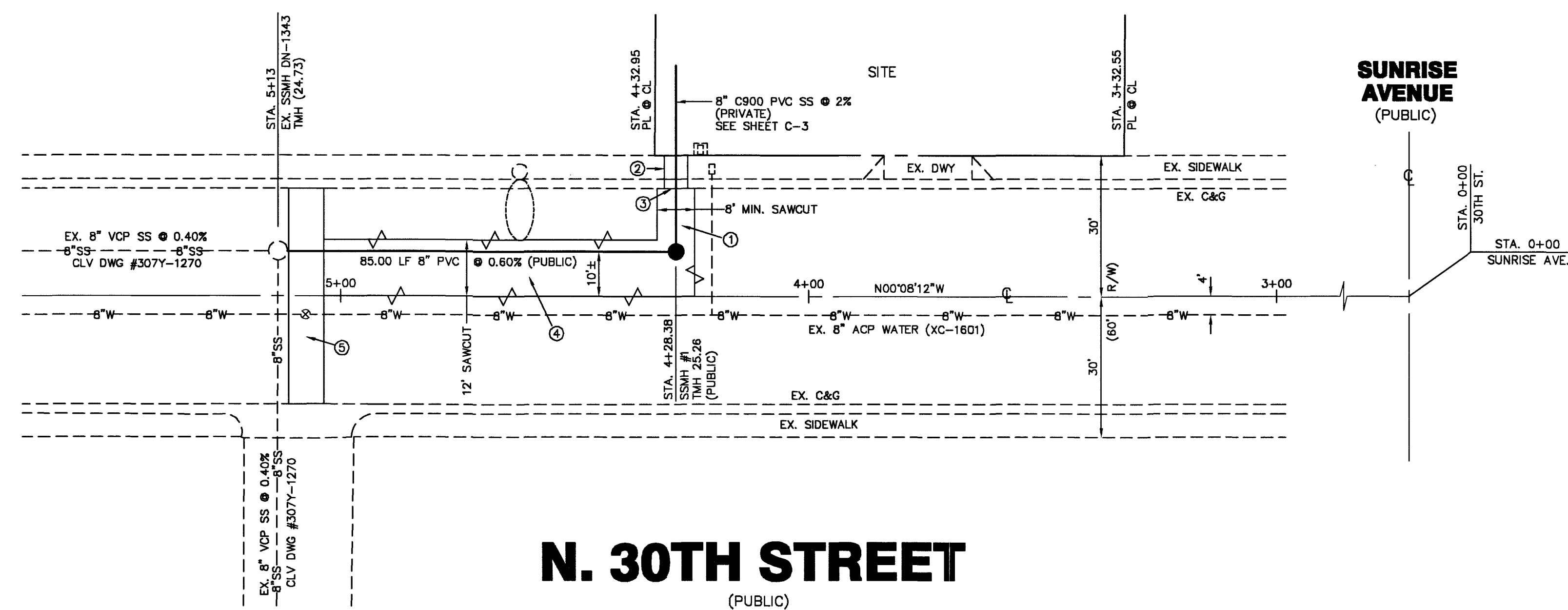
CHECKED BY:
R. J. LANGAN

PROJECT NO.:
SAMMY-1



SHEET
C4
4 OF 5 SHEETS
DRAWING NO.
107V1085

PROJ#:136175A QS:139-36-SW



- CONSTRUCTION NOTES**
- ① SAWCUT & PATCH EX. AC PER CCAUSD 500.5. TRENCH BACKFILL PER CCAUSD 503.2. A.C. PATCHES MUST BE MACHINE LAID.
 - ② SAWCUT EX. SIDEWALK & CONSTRUCT 5' SIDEWALK PER CCAUSD 234.
 - ③ SAWCUT EX. CURB & CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD 216.
 - ④ SAWCUT & PATCH EX. AC PER CCAUSD 500.4. TRENCH BACKFILL PER CCAUSD 503.2. A.C. PATCHES MUST BE MACHINE LAID.
 - ⑤ SAWCUT & REMOVE EX. CROSS GUTTER AND CONSTRUCT 8" CROSS GUTTER PER CCAUSD 228.

SANITARY SEWER MANHOLE SCHEDULE

MH#	ID	TYPE	STATION	OFFSET	RIM EL	8" INV IN	8" INV OUT	COMMENTS
1		SD-1	4+28.38, 30TH ST.	10' RT	25.26	1821.43	1821.23	XX

BENCHMARK

BM NO. 2LV013654
ELEVATION = 1825.87' // 556.465M
RIVET AND SQUARE ALUM PLATE IN T/C,
NORTHWEST CORNER OF CHARLESTON BLVD.
AND MOJAVE ROAD
NAV'D 88

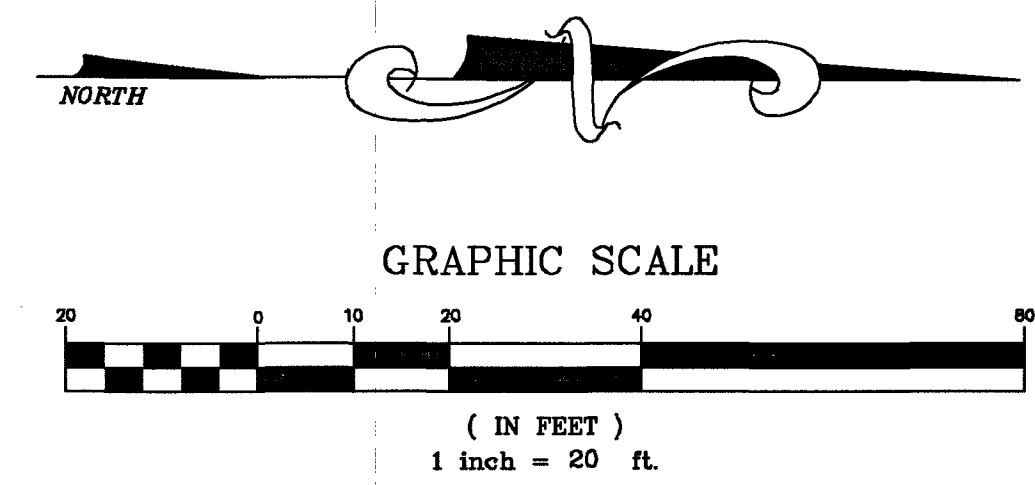
BASIS OF BEARINGS

NORTH 00°08'12" WEST BEING THE CENTERLINE OF 30TH STREET, AS SHOWN ON PARCEL MAP FILE 58, PAGE 50, LOCATED WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 36, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA RECORDS.

LEGAL DESCRIPTION

BEING LOT 2 OF PARCEL MAP FILE 58 PAGE 50, LOCATED WITHIN THE SW 1/4 SECTION 36, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M. (APN 139-36-402-006)

APN 139-36-402-006



Call before you Dig
Avoid cutting underground utility lines. IT'S COSTLY.
Call 811
1-800-227-2800

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround
1-702-432-5300
FREEMAN AND MATERIAL SYSTEM OF TRANSPORTATION

PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136175 FIRST APPROVED DATE: 10-9-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM
SHEETS: C-1, C-2, C-3, C-4, C-5

SAMMY'S FOOD SERVICE INC.
6127 ROCKY TOP AVENUE
LAS VEGAS, NV 89110
TEL (702) 210-0032

SEWER PLAN & PROFILE

SAMMY'S FOOD SERVICE
63 N. 30TH STREET

ROBERT J. LANGAN
ENGINEERING
1000 N. Green Valley Pkwy., Suite 440-659
Henderson, Nevada 89074
Tel (702) 316-5462 Email: boblangan7@gmail.com

FAST
Call before you UnderGround
1-702-432-5300
FREEMAN AND MATERIAL SYSTEM OF TRANSPORTATION

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136175 FIRST APPROVED DATE: 10-9-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM
SHEETS: C-1, C-2, C-3, C-4, C-5

SEAL
ROBERT J. LANGAN
Exp. 12-31-19
CIVIL

SHEET
C5
5 OF 5 SHEETS
DRAWING NO.
107V1085

PROJ.#: 136175A QS: 139-36-SN