DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS NEVADA

AS-BUILT

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS

6TH ST-BIKE LANES
CHARLESTON BLVD TO STEWART AVE

BID NUMBER: 12.1730.01

FUNDED BY:
FEDERAL CONGESTION MITIGATION AIR QUALITY FUNDS

REVIEWED

City Engineer — Date 7-12-11

Construction Management — Date 7-12-11

Project Manager — Date 7-12-11

City Traffic Engineer — Date 7/13/11

Las Vegas Valley Water District — Date 08/22/11

Project # 116880
SHEETS R1

Mayor:
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City Council:
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BOB COFFIN

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Director of Public Works:
JORGE CERVANTES, P.E., P.T.O.E.

City Engineer:
DAVID BOWERS, P.E., P.T.O.E

H#38974

REVISIONS

No	DESCRIPTION	SHTS	BY	DATE
	AS-BUILT			

SCALE (H): NONE
SCALE (V): NONE
DRAWN BY: VTN
DATE: 8/19/2011
W.O. #: 7350
DESIGN BY: LWW/RCH

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PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT C. HOSEA EXP. 06/30/13 CIVIL No. 10112

DEPARTMENT OF PUBLIC WORKS

PROJECT: DOWNTOWN PEDESTRIAN AND BICYCLE IMPROV-6TH ST

SHEET: COVER SHEET

DRAWING NO. 107V5664 I1

CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.

GENERAL LEGEND

- EXISTING CURB & GUTTER
- EXISTING EDGE OF PAVEMENT
- EXISTING RIGHT-OF-WAY
- CATV — EXISTING CABLE TELEVISION LINE(S)
- 4" G — EXISTING GAS LINE (SIZE VARIES)
- 12" SS — EXISTING SEWER LINE (SIZE VARIES)
- 8" W — EXISTING WATER LINE (SIZE VARIES)
- UGT — EXISTING TELEPHONE CABLE/CONDUIT(S)
- 18" SD — EXISTING STORM DRAIN (SIZE VARIES)
- TS — EXISTING TRAFFIC SIGNAL WIRE AND/OR CONDUIT
- UGE — EXISTING UNDERGROUND ELECTRIC LINE(S)
- X — X — X — EXISTING FENCE LINE
- WM — EXISTING WATER METER
- EXISTING VALVE
- FH — EXISTING FIRE HYDRANT
- EXISTING MANHOLE
- EXISTING POLE w/ GUY WIRE AND ANCHOR
- OR OR — EXISTING STREET SIGN
- OR — EXISTING STREET LIGHT
- EXISTING POLE LIGHT
- EXISTING PULL BOX
- EXISTING UTILITY VAULT OR CABINET
- EXISTING TRAFFIC CONTROL SERVICE PEDESTAL
- EXISTING SIDEWALK RAMP
- T — EXISTING CATHOTIC TEST STATION
- A — EXISTING COMBINATION AIR VALVE

- PROPOSED CURB & GUTTER
- PROPOSED EDGE OF PAVEMENT
- —X—X—X— PROPOSED FENCE LINE
- PROPOSED STORM DRAIN
- PROPOSED DROP INLET
- PROPOSED WATER METER
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- OR OR OR — PROPOSED STREET SIGN
- OR OR — PROPOSED STREET LIGHT
- PROPOSED POLE LIGHT
- PROPOSED PULL BOX
- PROPOSED UTILITY VAULT OR CABINET
- PROPOSED TRAFFIC CONTROL SERVICE PEDESTAL
- PROPOSED SIDEWALK RAMP

PROJECT SITE

VICINITY MAP

ABBREVIATIONS

A	ANODE, GAS
ABAN or ABN	ABANDON
AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AGG	AGGREGATE
AIP	ABANDONED IN PLACE
ALT	ALTERNATE
ANG PT	ANGLE POINT
AVE	AVENUE
BC	BACK OF CURB
BC–BC	BACK OF CURB TO BACK OF CURB
BCR	BEGIN CURB RETURN
BDRY LINE	BOUNDARY LINE
BHDI	BEEHIVE DROP INLET
BLVD	BOULEVARD
BM	BENCH MARK
BO	BLOW–OFF
BVC	BEGINNING OF VERTICAL CURVE
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
BVCS	BEGINNING OF VERTICAL CURVE STATION
CATV	CABLE TELEVISION
CATVRSR	CABLE TELEVISION RISER
C–C	CENTER TO CENTER
CC	CLARK COUNTY
CCSD	CLARK COUNTY SANITATION DISTRICT
℄ or CL	CENTERLINE
CF	CURB FACE
CIP	CAST IRON PIPE
CLV	CITY OF LAS VEGAS
CMP	CORRUGATED METAL PIPE
CMAP	CORRUGATED METAL ARCHED PIPE
CNLV	CITY OF NORTH LAS VEGAS
CO	CLEANOUT, SEWER
COL	COLUMN
COMM	COMMERCIAL
CONC, PCC	CONCRETE
CONST	CONSTRUCTION or CONSTRUCT
COR	CORNER
C&G or C/G	CURB & GUTTER
CULV	CULVERT
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS
DEPT	DEPARTMENT
DI	DROP INLET
DIA	DIAMETER
DWG	DRAWING
DWY	DRIVEWAY
E or ELEC	ELECTRIC
EBOX	ELECTRIC BOX
EC	END OF CURVE
ECR	END CURB RETURN
ELEV or EL	ELEVATION
EM	ELECTRIC METER
EMBK	EMBANKMENT
EMTR	ELECTRIC METER
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
ETRAN	ELECTRIC TRANSFORMER
EVC	END OF VERTICAL CURVE
EVCE	END OF VERTICAL CURVE ELEVATION
EVCS	END OF VERTICAL CURVE STATION
EVLT	ELECTRIC VAULT
EX	EXISTING
EX BLDG	EXISTING BUILDING CORNER
EX FNC	EXISTING FENCE
EX FNC–COR	EXISTING FENCE CORNER
EX LS	EXISTING LANDSCAPE
EX TC–AP	TOP OF CURB – ANGLE POINT
FA	FIRE ALARM
FC	FACE OF CURB
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FT	FEET OR FOOT
FUT	FUTURE
GALV	GALVANIZED
GB	GRADE BREAK
GI	GRATED INLET
GM	GAS METER
GUT	GUTTER
GV	GAS VALVE
HERCP	HORIZ ELLIPTICAL REINFORCED CONCRETE PIPE
HDWL	HEADWALL
HORIZ	HORIZONTAL
HP	HIGH POINT
IE	INVERT ELEVATION
IN	INCH
INT	INTERSECTION
INV	INVERT
ISL	ISLAND
IMP	IMPROVEMENT(S)
L	LENGTH OF CURVE
LP	LOW POINT
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MLCP	MORTAR LINED AND COATED STEEL PIPE
MO	MODIFIED
NG	NATURAL GROUND
N/O	NORTH OF
NTS	NOT TO SCALE
OC	ON CENTER
OG	OPEN–GRADED PAVEMENT
OH/CATV	OVERHEAD CABLE TELEVISION
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
P	POWER
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCC,CONC	PORTLAND CEMENT CONCRETE
PED	PEDESTRIAN
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL	PROPERTY LINE
PP	POWER POLE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RADIUS
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCAP	REINFORCED CONCRETE ARCHED PIPE
RD	ROAD
REINF	REINFORCED
RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE
RGHERCP	RUBBER GASKETED HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
RGVERCP	RUBBER GASKETED VERTICAL ELLIPTICAL
RP	RADIUS POINT
RT	RIGHT
RTN	RETURN
R/W	RIGHT–OF–WAY
RWDS	RECLAIMED WATER DELIVERY SYSTEM
S	SEWER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SLPB	STREETLIGHT PULL BOX
SSMH	SANITARY SEWER MANHOLE
SL or STLT	STREET LIGHT
SS	SANITARY SEWER
SQ FT, SF	SQUARE FOOT
SQ YD, SY	SQUARE YARD
ST	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL OR STRUCTURE
SW	SIDEWALK
T	TELEPHONE
TBC	TOP BACK OF CURB
TBOX	TELEPHONE BOX
TC	TOP OF CURB
TEMP	TEMPORARY
TFC	TOP FACE OF CURB
TG	TOP OF GRATE
TMH	TELEPHONE MANHOLE
TOE	BOTTOM OF SLOPE
TOS	TOP OF SLAB
TPFC	TOP OF PAVEMENT @ FACE OF CURVE
TRSR	TELEPHONE RISER
TS	TRAFFIC SIGNAL
TSI	TRAFFIC SIGNAL INTERCONNECT
TSPB	TRAFFIC SIGNAL PULL BOX
TVLT	TELEPHONE VAULT
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
USD	UNIFORM STD DWG
VERCP	VERT ELLIPTICAL REINF CONC PIPE
VERT	VERTICAL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
WBO	WATER BLOW–OFF VALVE
WM	WATER METER
WMH	WATER VAULT MANHOLE
W/O	WEST OF
WV	WATER VALVE
YD	YARD

SHEET # DRAWING INDEX

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REVISION | BY | DATE | REV

LEGEND, DRAWING INDEX, ABBREVIATIONS & VICINITY MAP

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: DAM — 8/19/2011
DESIGNED BY: LMW/RCH — 8/19/2011
CHECKED BY: RSH — 8/19/2011
PROJECT NO: 7350
SCALE HORIZ. N/A VERT. N/A

PROFESSIONAL ENGINEER — ROBERT C. HOSEA JR. — EXP. 06/30/13 — CIVIL — No. 8112 — STATE OF NEVADA
8-19-11

SHEET 12
2 OF 12 SHEETS
DRAWING NO. 107V5864

I:\7350\Sheet Set\Bott Brown\7350 Bott Sheet Above.dwg\Aerial Aug 18, 2011 - 10:16am

CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.

CLV – 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 ISSUE; 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 CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS 'DEVIATIONS FROM STANDARDS'.
2. THE EXISTENCE AND LOCATION OF ANY 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 FROM 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, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD 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 (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND 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 233. 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 OF LAS VEGAS AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SEWER 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 RELOCATIONS.
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 NDOT 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 BALLS, 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 OFFSITE INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE"AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND TIED TO THE CITY OF LAS VEGAS VERTICAL CONTROL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/– 0.1 METER (+/– 0.3 FEET). 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. SANITARY SEWER SERVICE LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE SEWER SERVICE LATERAL TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL EXITS THE PUBLIC RIGHT-OF--WAY. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT--OF--WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL 1404--XR OR APPROVED EQUAL.
23. 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 ADDITION.
24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 04/15/10

CLV – 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 "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING (3M APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1180 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 ROADS) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF--SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO 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 INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 229--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 DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECTS OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED 5/5/08

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES LVVWD PROJECT NO. 116880

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 COMMUNICATIONS 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 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 OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERAL 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 AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. 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 UDACS 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 MATERIAL 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

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 08/22/11 PROJECT NO. 116880

CLV – TRAFFIC SIGNAL NOTES:

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 EFFECTIVE MARCH 30, 2001.
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--563--8111
CALL--BEFORE--YOU--DIG	1--800--227--2600
STREETLIGHTS	1--702--229--6331
F.A.S.T.	1--702--432--5300

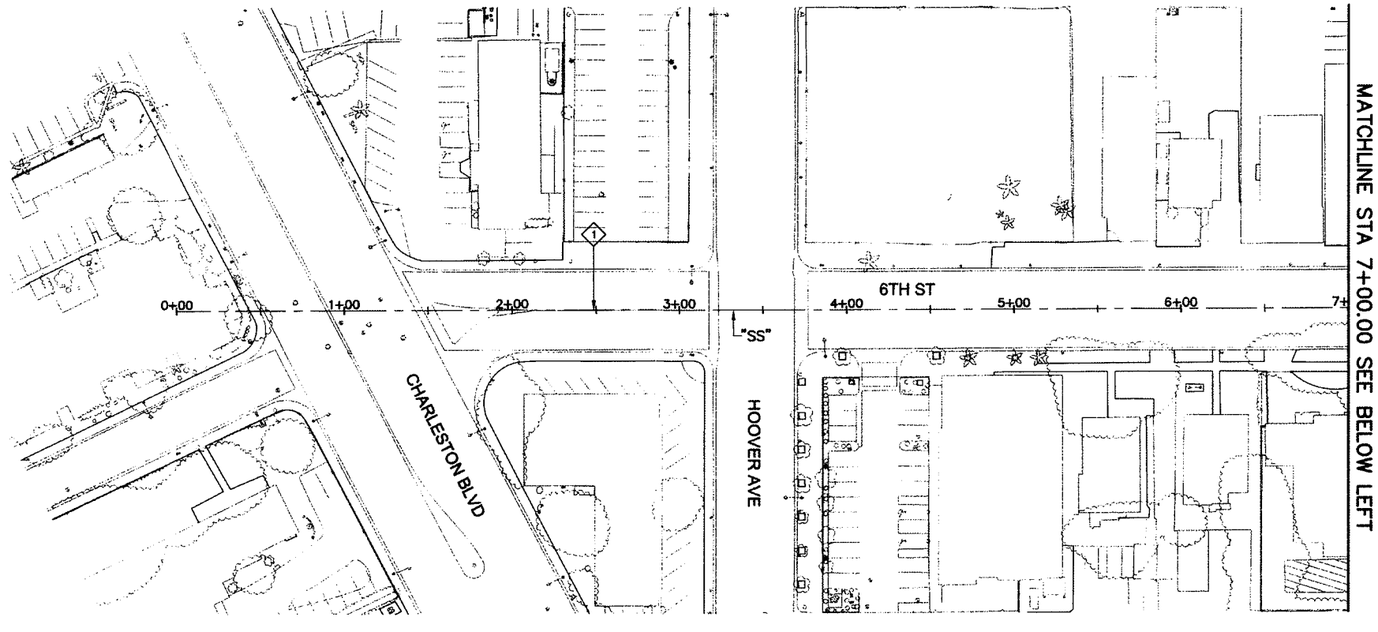
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF--SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1982 WITH ALL SUBSEQUENT REVISIONS.
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 FADMOUNT.
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 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC--111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THOSE SHALL BE 2(TWO)--#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED 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). 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.
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. 404.1110, NO. 404.1120, AND NO. 404.1130.
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 SYSTEM) OR CAMPBELL COMPANY ADVANCED ACCESSIBLE PEDESTRIAN SYSTEM PART NUMBERS AAPS APB912 (BUTTONS) WITH AAPS APS (CONTROLLER) IN ACCORDANCE WITH 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, and as modified by the MUTCD amendment to fit on a 9"x12" sign. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1--4) LATEST EDITION.
12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING 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--5 SIGNAL HEAD.
14. INSTALL TYPE VIII CABINET. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS.
15. THE CONTRACTOR SHALL SUPPLY A 2070N OR M53 CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, FOURTEEN DAYS PRIOR TO SIGNAL TURN--ON, FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO, AND PICKUP THE CONTROLLER AT 2881 E. CHARLESTON BOULEVARD. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229--6075) SEVEN DAYS PRIOR TO PICK UP. ALL 2070N CONTROLLERS MUST BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH OSO 1956 OPERATION SYSTEM; THE LATEST REVISION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (SIEMENS) AND THE ICONS (SIEMENS) GENERAL SOFTWARE.
16. CONTRACTOR SHALL POTHOLE 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. 404.4OB 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 7.02.09 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 TO SECTION 623 OF THE CCA USS. All pedestrian signal faces shall provide "Walking Person"; "Hand"; and "Countdown" messages as provided by Dura8ight model #JSM--400--WEL or Dialight model #430--6478--001X, or approved equal.
19. VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2 WITH EDGECONNECT PAK, (IP addressable); OR PEEK VideoTrak M2 (with Ethernet port). 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 LAPTAOP 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 OR CRT) 8" 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 6281 (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. EXTENSION BRACKETS (TYPE AS--0186--5--62 OR EQUIVALENT) WILL BE USED WHEN MOUNTING VIDEO CAMERAS ON MAST ARMS. A VIDEO FILTER (CX006--BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT.
20. LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER--FAIL LOOP SYSTEMS. TWO (2) CHANNEL RACK-- MOUNTED DETECTOR AMPLIFIERS SHALL BE INSTALLED IN THE CONTROLLER CABINET WHICH ACCOMMODATE 24 SEPARATE CHANNELS. LOOP LEAD--IN CABLE SHALL BE 6--PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, 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. ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. 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 3M (ENCODING CAPABLE), MODEL 754 PHASE SELECTOR INSTALLED IN A MODEL 750 CARD RACK; OPTICAL SENSORS WILL BE MODEL 721 AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH #4--138 CABLE.
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.

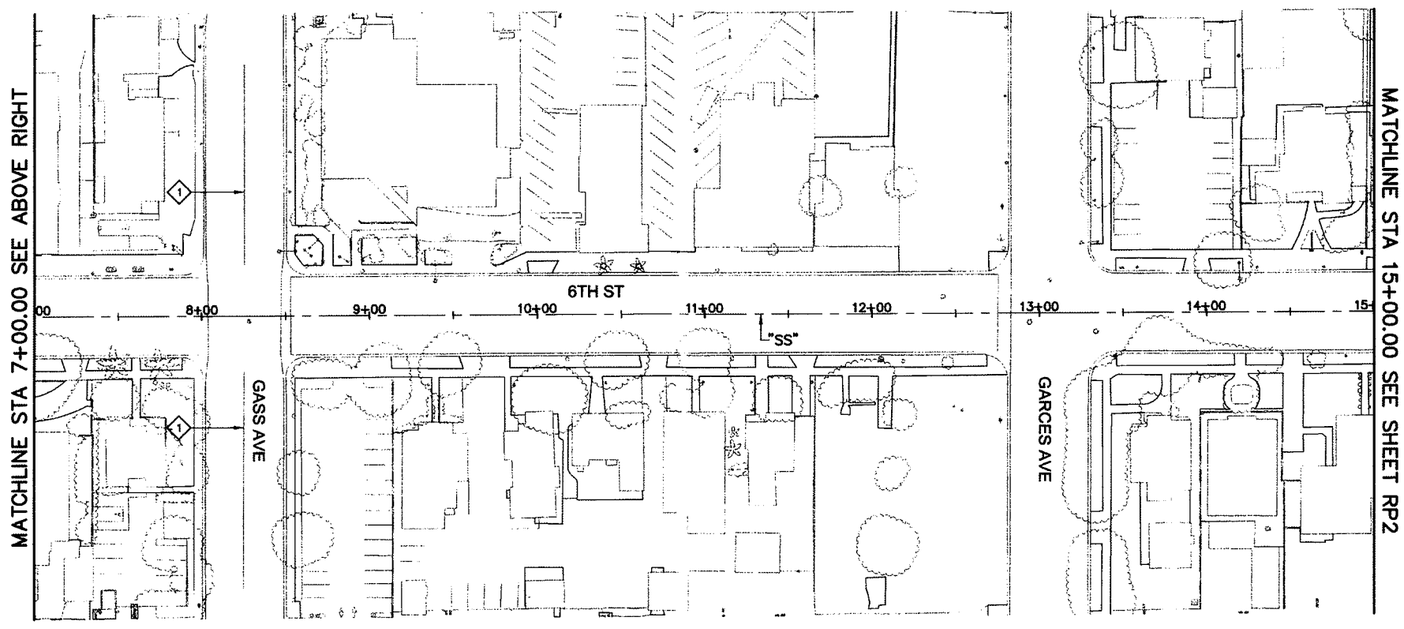
REVISED 9/20/10

CLV – STREETLIGHT NOTES:

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF--SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA; LATEST REVISION, AND THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF--SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA; LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN EMPTY"CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF"PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS--BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEFO PRIOR TO ANY PRE--FINAL INSPECTION. THE AS--BUILT DRAWING NEEDS TO BE STAMPED AS--BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CI

CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.





GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1 EXISTING STRIPING TO REMAIN

NO CHANGES

SEE SHEETS T1-T4 FOR FOR STRIPING AND SIGNING

FAST

Call before you UnderGround 1-702-432-5300

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

PUBLIC WORKS DEPARTMENT

333 N. RANCHO DRIVE
LAS VEGAS, NV 89106
702-229-6772

2727 SOUTH RANDOW BOULEVARD
LAS VEGAS, NV 89146-5146
PH (702) 455-7500
FAX (702) 383-2567
WEB SITE WWW.CITYNV.COM

REV	DATE	BY	REVISION

DRAWN BY: DAM 8/19/2011

DESIGNED BY: LMW/RCH 8/19/2011

CHECKED BY: RCH 8/19/2011

PROJECT NO: 7350

SCALE HORIZ: 1"=40' VERT: N/A

PROFESSIONAL ENGINEER – STATE OF NEVADA – ROBERT HOSEA JR. – EXP. 06/30/13 – CIVIL – No. 11112

REMOVAL PLAN
STA 1+50.00 TO STA 15+00.00

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

SHEET RP1
4 OF 12 SHEETS

DRAWING NO. 107V6884

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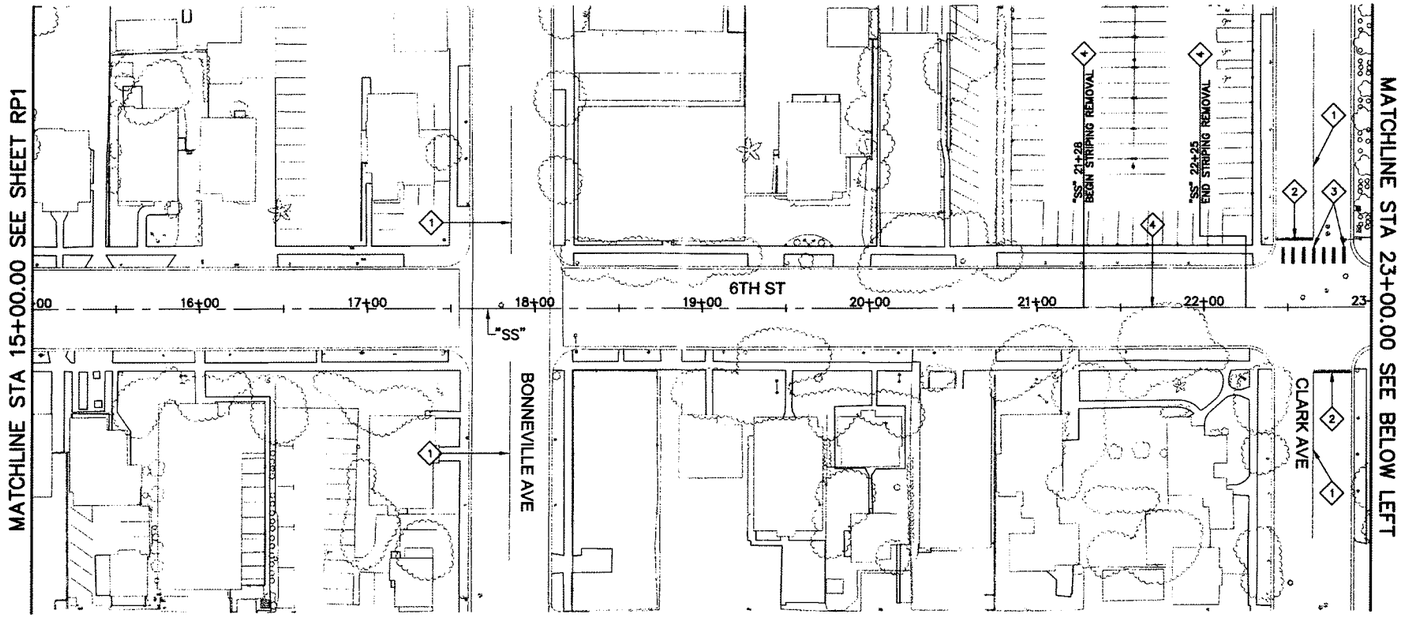
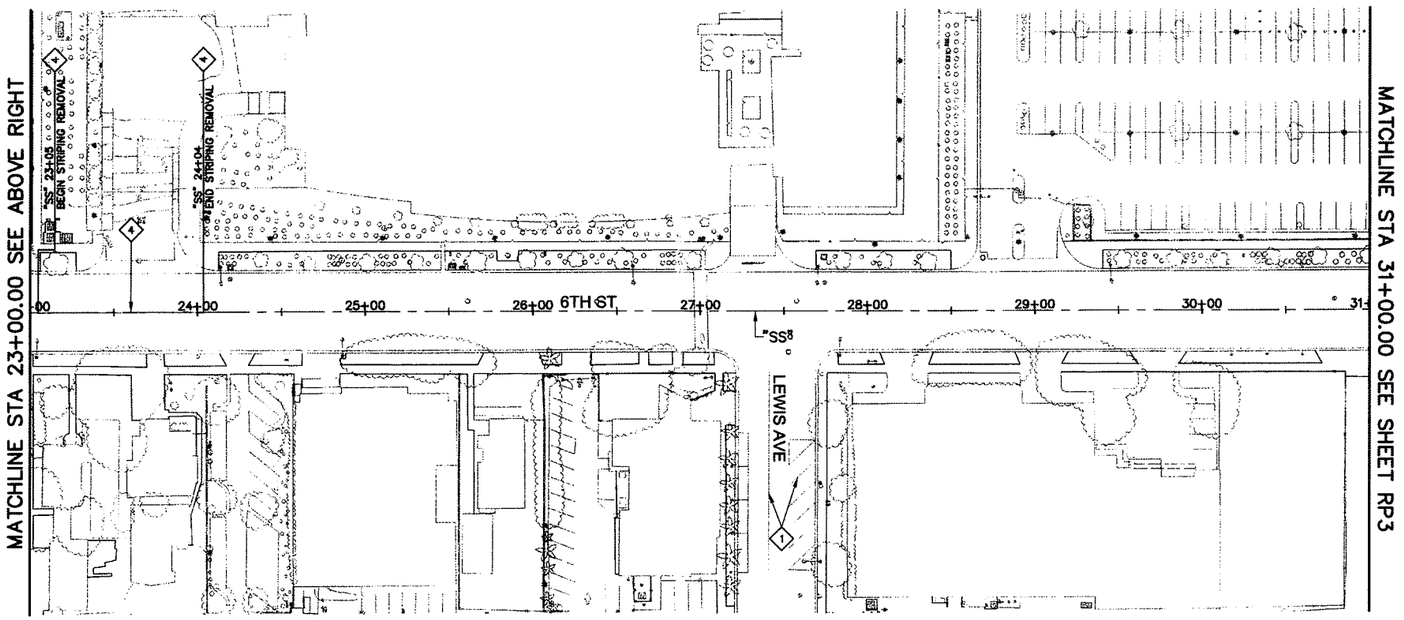
CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.





GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1. EXISTING STRIPING TO REMAIN
2. REMOVE EXISTING STOP BAR
3. REMOVE EXISTING CROSSWALK, (IF FILM REMOVE, IF PAINT THEN WILL BE COVERED WITH TYPE II SLURRY SEAL)
4. REMOVE EXISTING CENTERLINE (PAINT)

NO CHANGES

SEE SHEETS T1-T4 FOR FOR STRIPING AND SIGNING

FAST

Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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CALL BEFORE YOU DO OVERHEAD
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Call before you Dig
Avoid cutting underground utility lines. It's easy.
Call 811

REV	DATE	BY	REVISION
			AS BUILT

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LAS VEGAS, NV 89106
702-229-6272

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5146
PH. (702) 873-7500
FAX (702) 362-2597
WEB SITE WWW.CITYNV.COM

REMOVAL PLAN
STA 15+00.00 TO STA 31+00.00

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: DAM — 5/19/2011
DESIGNED BY: LMV/RCH — 5/19/2011
CHECKED BY: RDH — 5/19/2011
PROJECT NO.: 7350
SCALE: HORIZ. 1"=40' VERT. N/A

ROBERT C. HOSEA III
EXP. 06/30/13
CIVIL
No. 10112
8.19.11

SHEET
RP2
5 OF 12 SHEETS
DRAWING NO.
1075664

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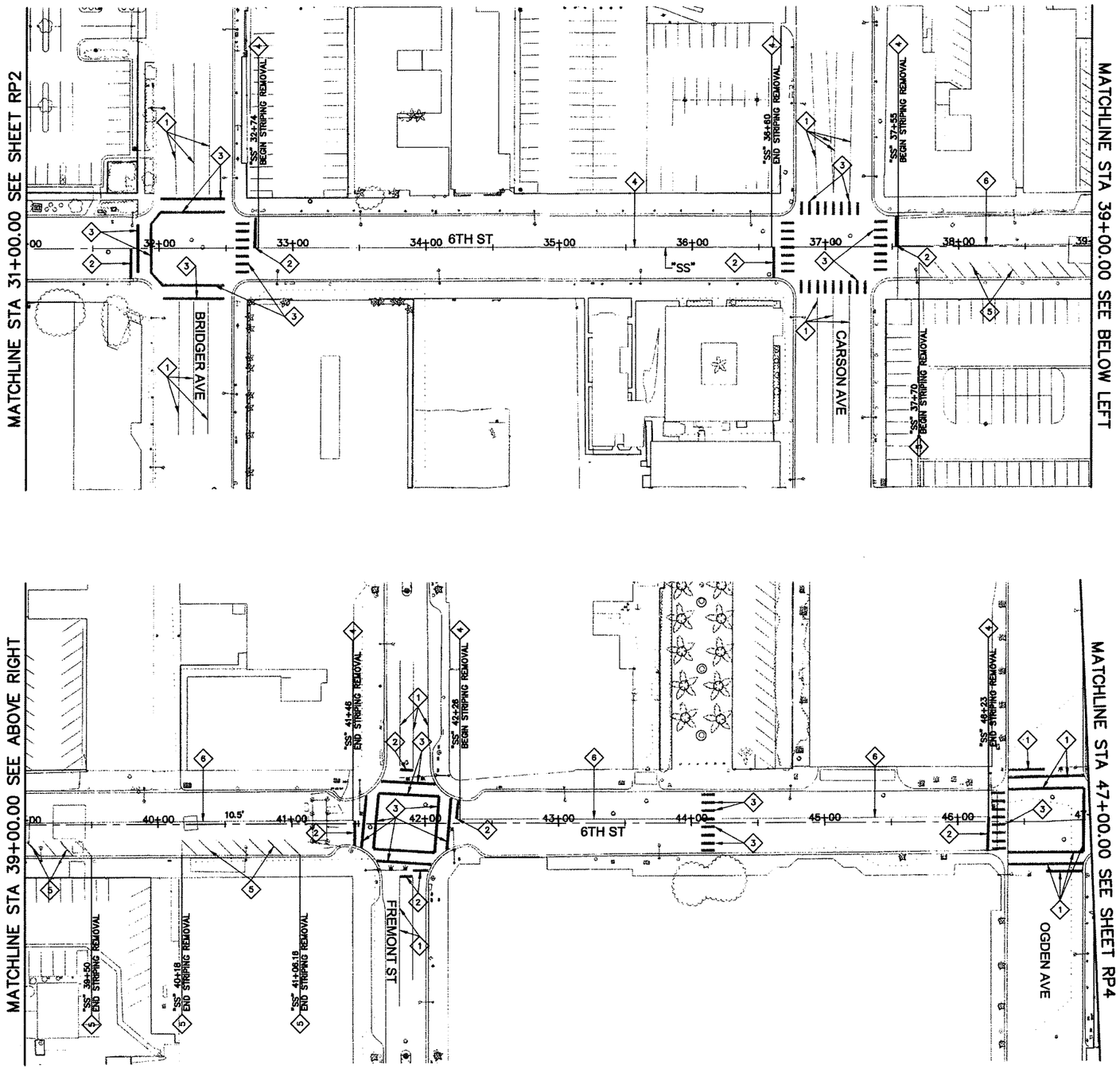
CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.



NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1. EXISTING STRIPING TO REMAIN
2. REMOVE EXISTING STOP BAR
3. REMOVE EXISTING CROSSWALK, (IF FILM REMOVE, IF PAINT THEN WILL BE COVERED WITH TYPE II SLURRY SEAL)
4. REMOVE EXISTING CENTERLINE (PAINT)
5. REMOVE EXISTING PARKING STRIPING
6. REMOVE EXISTING CENTERLINE (RAISED PAVEMENT MARKERS)

NO CHANGES

SEE SHEETS T1-T4 FOR FOR STRIPING AND SIGNING

FAST

Call before you UnderGround 1-702-432-5300

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

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Call before you Dig

Call 811

REV	DATE	BY	REVISION

PUBLIC WORKS DEPARTMENT

333 N. RANCHO DRIVE LAS VEGAS, NV 89106 702-229-6172

2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-3148 PHONE (702) 362-7400 FAX (702) 362-2697 WEB SITE WWW.YTRNV.COM

REMOVAL PLAN
STA 31+00.00 TO STA 47+00.00

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: DAM	8/19/2011	
DESIGNED BY: LMM/RCH	8/19/2011	
CHECKED BY: RSH	8/19/2011	
PROJECT NO: 7350	SCALE: HORIZ. 1"=40' VERT. N/A	

ROBERT C. HOSEA JR. EXP. 06/30/13 CIVIL No. 10112

SHEET RP3 6 OF 12 SHEETS

DRAWING NO. 107V5684

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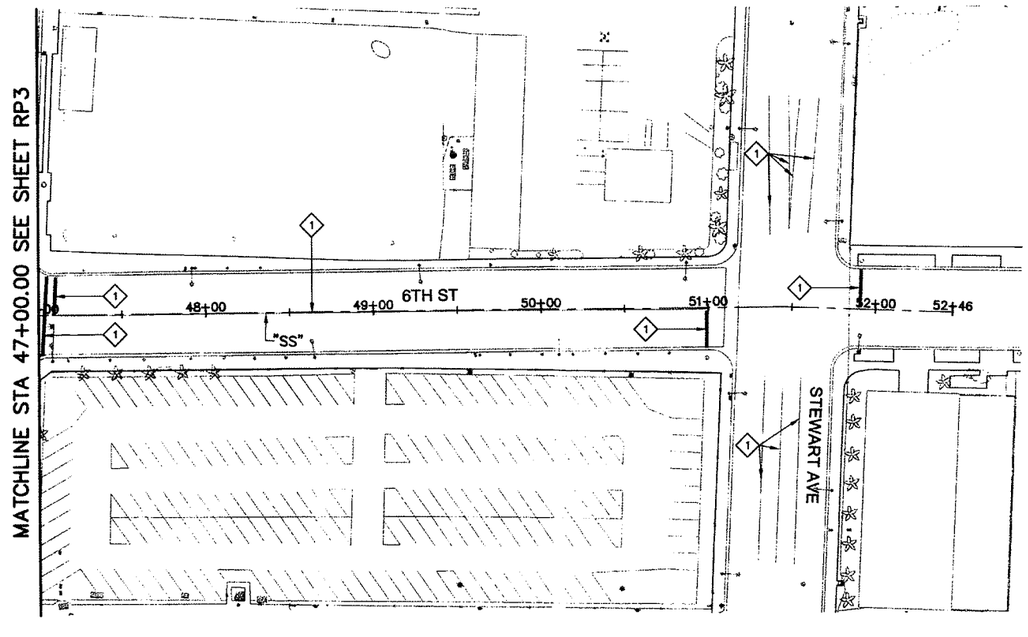
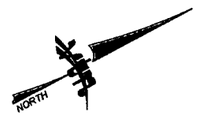
CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.





GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1 EXISTING STRIPING TO REMAIN

NO CHANGES

SEE SHEETS T1-T4 FOR FOR STRIPING AND SIGNING

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

Call before you Dig. Avoid cutting underground utility lines. It's costly. Call 811

AS BUILT

REV	DATE	BY	REVISION

PUBLIC WORKS DEPARTMENT
333 N. RANCHO DRIVE
LAS VEGAS, NV 89106
702-229-6372

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH (702) 362-2600
FAX (702) 362-2697
WEB SITE WWW.VTNNV.COM

REMOVAL PLAN
STA 47+00.00 TO STA 60+98

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: DAM 8/19/2011
DESIGNED BY: LMF/RDH 8/19/2011
CHECKED BY: RDH 8/19/2011
PROJECT NO: 7330
SCALE HORZ: 1"=40' VERT: N/A

ROBERT D. HOSEA JR. EXP. 06/30/13 CIVIL No. 10178 STATE OF NEVADA

SHEET
RP4
7 OF 12 SHEETS
DRAWING NO.
107V6684

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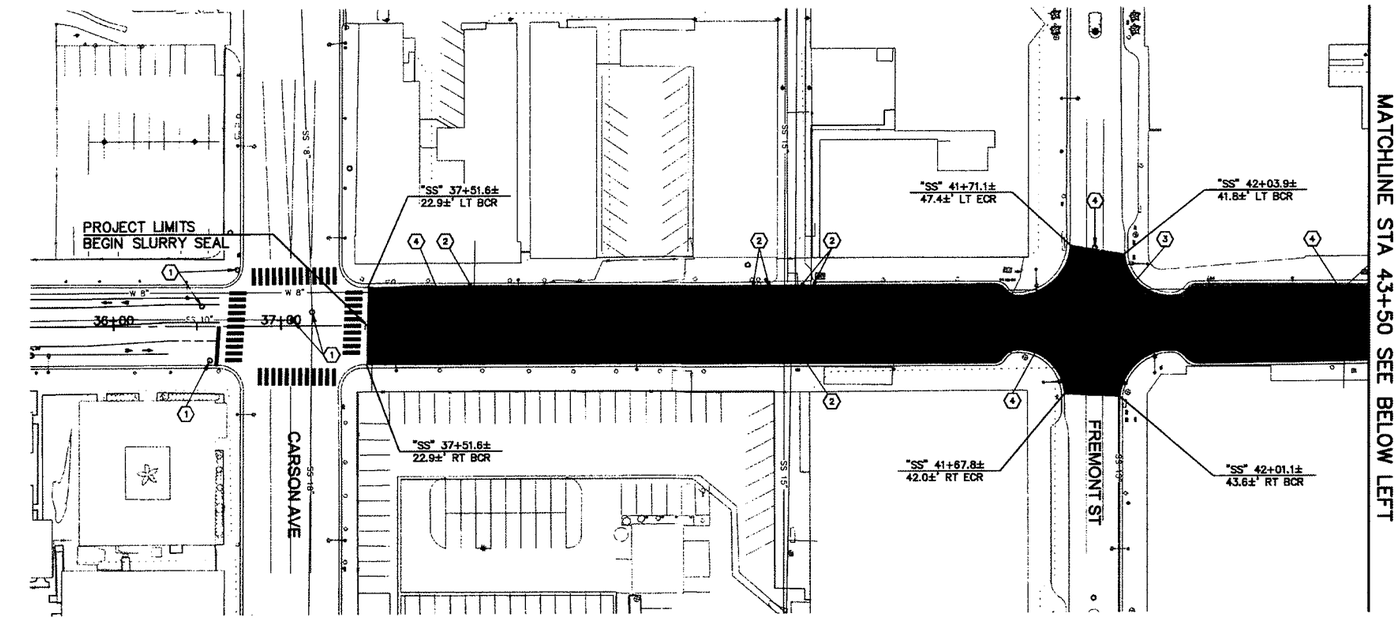
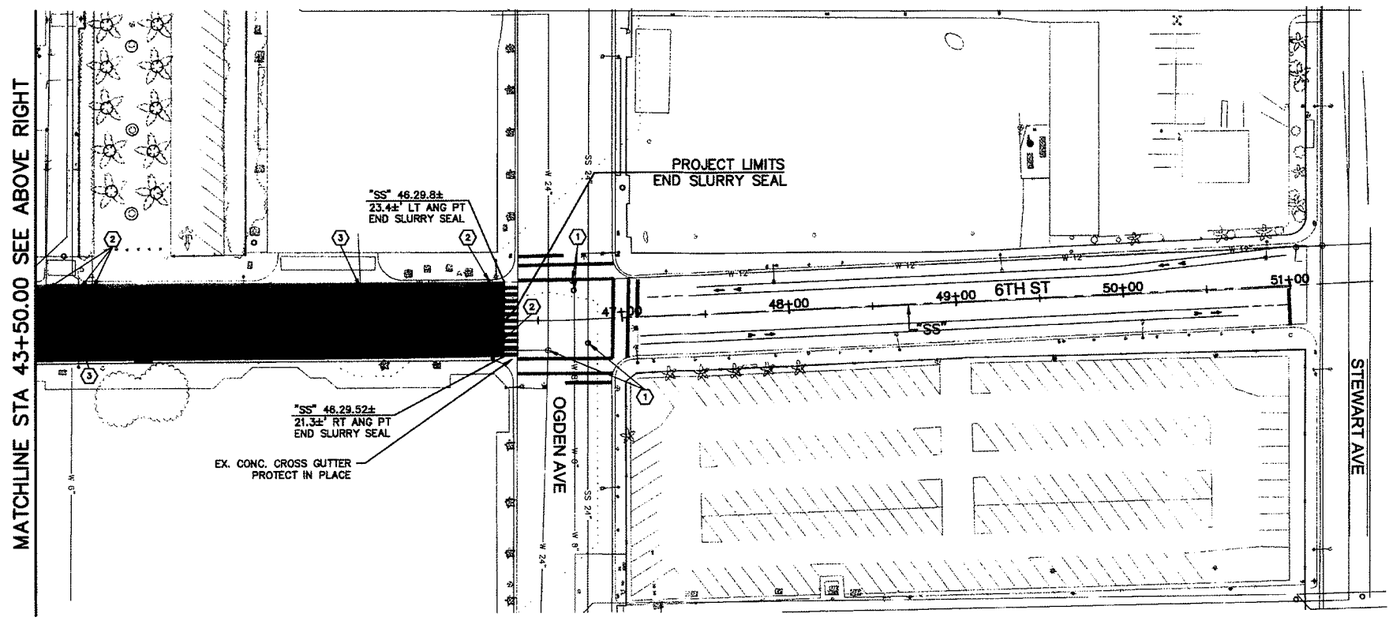
CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.





NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

LEGEND

NEW TYPE II SLURRY LIMITS

CONSTRUCTION NOTES:

1. PROTECT IN PLACE
2. WATER VALVE (NO SLURRY OVER COVER AND CONCRETE COLLAR. VALVES MUST BE ACCESSIBLE AT ALL TIMES)
3. SANITARY SEWER MANHOLE (NO SLURRY OVER COVER AND CONCRETE COLLAR. MANHOLES MUST BE ACCESSIBLE AT ALL TIMES)
4. MISC MANHOLE (NO SLURRY OVER COVER AND CONCRETE COLLAR. MANHOLES MUST BE ACCESSIBLE AT ALL TIMES)

NO CHANGES

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE 08/22/11 PROJECT NO. 116880

FAST

Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811

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702-229-6011

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LAS VEGAS, NEVADA 89146-5148
PH (702) 362-7400
FAX (702) 362-2567
WEB SITE WWW.VTNNV.COM

REV	DATE	BY	REVISION
			AS BUILT

ROADWAY PLAN
STA 37+618± TO STA 47+115±

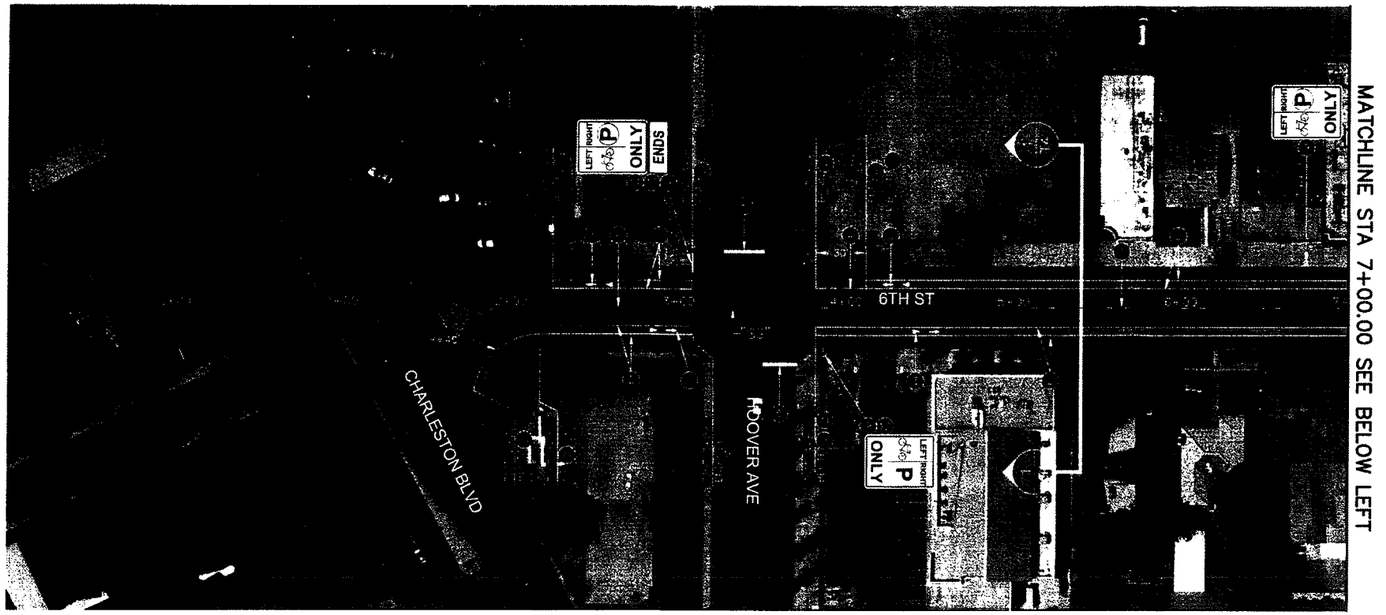
DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

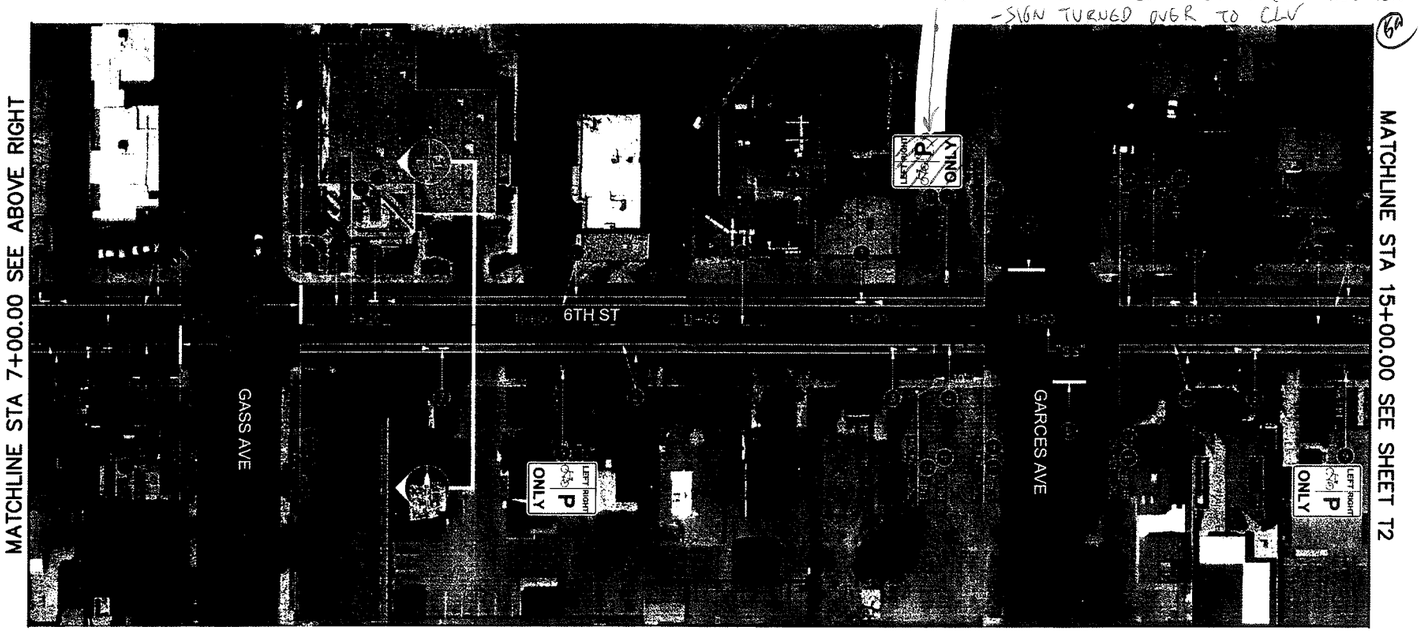
DRAWN BY: DAM 8/19/2011
DESIGNED BY: LMW/MDH 8/19/2011
CHECKED BY: RGH 8/19/2011
PROJECT NO: 7350
SCALE: HORIZ. 1"=40' VERT. N/A

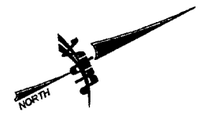
PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT G. HOSEA JR.
EXP. 09/30/13
CIVIL
No. 10112
8-19-11

SHEET
R1
8 OF 12 SHEETS
DRAWING NO.
107V6884

I:\7350\Sheet Set\Base Sheet\7350 Base Sheet Roadway.dwg, Aug 19, 2011 - 10:47am







GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1. INSTALL TYPE 1 CENTERLINE PER USD NO. 244 (POLYUREA)
2. INSTALL 6" SOLID WHITE LINE PER USD NO. 244.9 (THERMOPLASTIC)
3. INSTALL GREEN BIKE LANE WITH LEGEND PER USD NO. 244.9 (THERMOPLASTIC)
4. INSTALL SKIP LINE PER USD. 244.9 (THERMOPLASTIC)
5. INSTALL CROSSWALK/STOP BAR PER USD NO. 254 (FILM)
9. INSTALL R3-17 MOD BIKE SIGN

LEFT RIGHT P ONLY

18" X 24"

11. EXISTING STRIPING TO REMAIN
12. INSTALL NEW SIGN ON EXISTING STREETLIGHT
13. REPLACE EXISTING SIGN POST WITH LONG SIGN POST. RE-INSTALL EXISTING SIGN AND INSTALL NEW SIGN
14. INSTALL R3-17bP END SIGN

ENDS

24" X 8"

NOTES:

1. ALL EXISTING SIGNS ARE TO REMAIN, PROTECT IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

SEE SHEETS RP1-RP4 FOR FOR STRIPING REMOVAL

FAST

Call before you UnderGround 1-702-432-5300
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REV	DATE	BY	REVISION

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LAS VEGAS, NEVADA, 89146-5148
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FAX (702) 362-2597
WEB SITE WWW.VTRNV.COM

STRIPING AND SIGNING PLAN STA 1+50.00 TO STA 15+00.00

DOWNTOWN PED AND BICYCLE IMP 6TH STREET CHARLESTON BLVD TO STEWART AVE

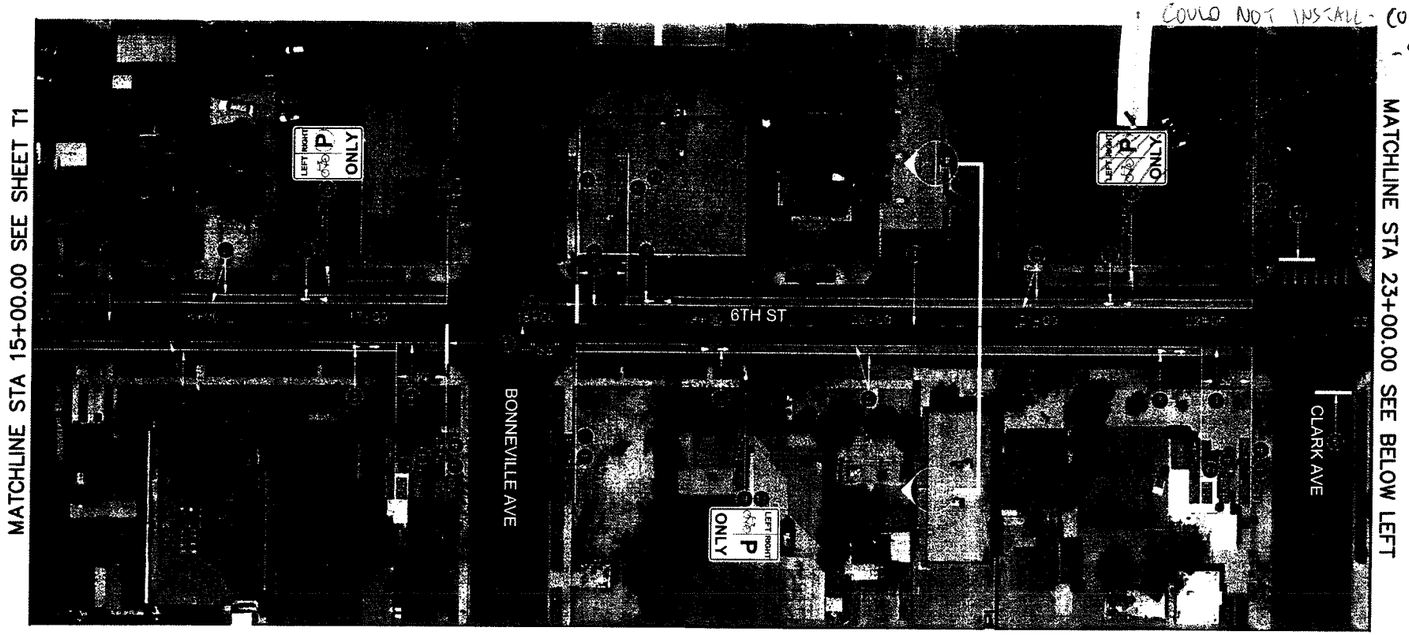
DRAWN BY: DAM	5/19/2012
DESIGNED BY: LMW/RSH	5/19/2012
CHECKED BY: RSH	5/19/2012
PROJECT NO: 7350	SCALE HORIZ. 1"=40' VERT. N/A

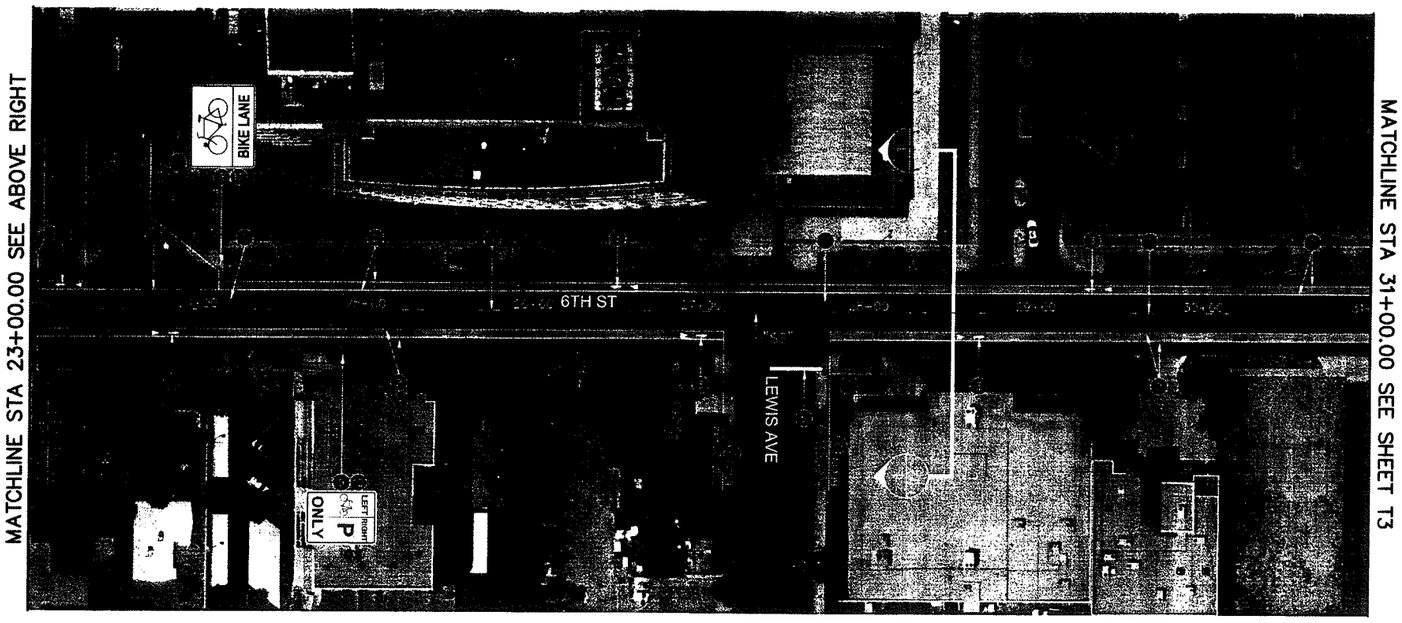
PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT C. HOSEA JR. EXP. 06/30/13 CIVIL No. 10112

SHEET T1 OF SHEETS

DRAWING NO. 1075684

I:\7350\Sheet Set\Sixth Street\7350 Sixth Street Striping\Striping Jan 16, 2012 - 10:38am





COULD NOT INSTALL - CONFLICTING CONSTRUCTION
- SIGNS TURNED OVER TO CLV

NORTH

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1. INSTALL TYPE 1 CENTERLINE PER USD NO. 244 (POLYUREA)
2. INSTALL 6" SOLID WHITE LINE PER USD NO. 244.9 (THERMOPLASTIC)
3. INSTALL GREEN BIKE LANE WITH LEGEND PER USD NO. 244.9 (THERMOPLASTIC)
4. INSTALL SKIP LINE PER USD. 244.9 (THERMOPLASTIC)
5. INSTALL CROSSWALK/STOP BAR PER USD NO. 254 (FILM)
7. INSTALL BLUE REFLECTIVE RAISED FIRE HYDRANT ID PAVEMENT MARKER
8. INSTALL R3-17 BIKE SIGN

24" X 18"

9. INSTALL R3-17 MOD BIKE SIGN

18" X 24"

12. INSTALL NEW SIGN ON EXISTING STREETLIGHT
13. REPLACE EXISTING SIGN POST WITH LONG SIGN POST. RE-INSTALL EXISTING SIGN AND INSTALL NEW SIGN

NOTES:

1. ALL EXISTING SIGNS ARE TO REMAIN, PROTECT IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

SEE SHEETS RP1-RP4 FOR FOR STRIPING REMOVAL

FAST
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CALL BEFORE YOU DO OVERHEAD
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Call 811

REVISION | BY | DATE | REV

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WEB SITE WWW.VHNW.COM

VHNW

STRIPING AND SIGNING PLAN
STA 15+00.00 TO STA 31+00.00

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

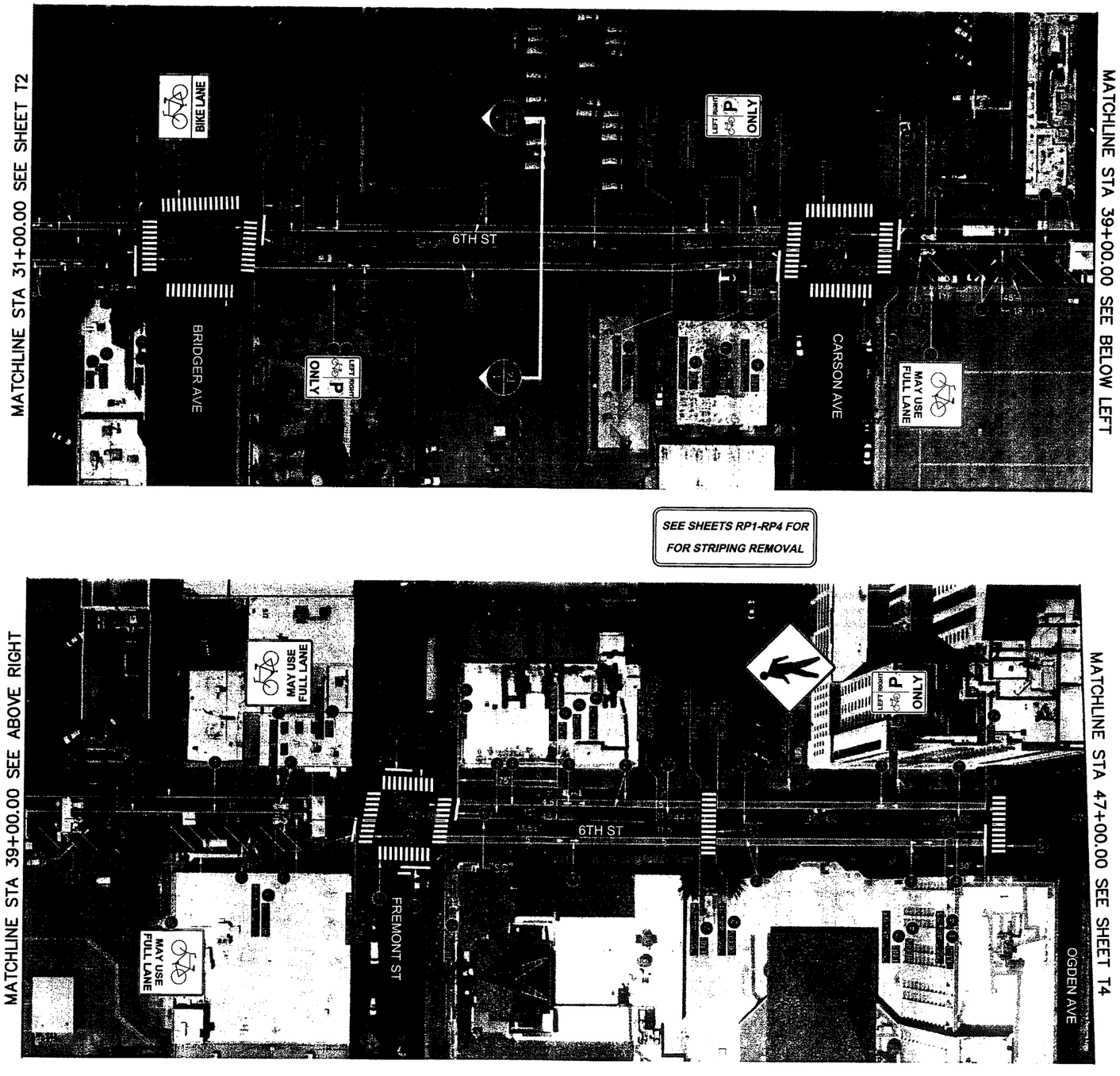
DRAWN BY: DSK 6/19/2012
DESIGNED BY: LMW/ACH 6/19/2012
CHECKED BY: RSH 6/19/2012
PROJECT NO: 2365
SCALE HORIZ. 1"=40' VERT. N/A

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT C. HOSEA JR.
EXP. 06/30/13
CIVIL
No. 10112

SHEET T2 OF SHEETS

DRAWING NO. 107V5684

107365\Sheet Set\Sixth Street\T02 Sixth Street Striping.dwg,dwt,mnl Jun 19, 2012 - 10:53am



NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

1. INSTALL TYPE 1 CENTERLINE PER USD NO. 244 (POLYUREA)
2. INSTALL 6" SOLID WHITE LINE PER USD NO. 244.9 (THERMOPLASTIC)
3. INSTALL GREEN BIKE LANE WITH LEGEND PER USD NO. 244.9 (THERMOPLASTIC)
4. INSTALL SKIP LINE PER USD. 244.9 (THERMOPLASTIC)
5. INSTALL CROSSWALK/STOP BAR PER USD NO. 254 (FILM)
6. INSTALL SHARROW BIKE LANE LEGEND SEE MUTCD FIG. 9C-9 (FILM) SEE ALSO DETAIL 2 SHEET T4
7. INSTALL BLUE REFLECTIVE RAISED FIRE HYDRANT ID PAVEMENT MARKER
8. INSTALL R3-17 BIKE SIGN

24" X 18"

NO CHANGES

9. INSTALL R3-17 MOD BIKE SIGN

18" X 24"

10. INSTALL R4-11 BIKE SIGN

30" X 30"

12. INSTALL NEW SIGN ON EXISTING STREETLIGHT
13. REPLACE EXISTING SIGN POST WITH LONG SIGN POST. RE-INSTALL EXISTING SIGN AND INSTALL NEW SIGN
15. INSTALL W11-2 PED SIGN

30" X 30"

NOTES:

1. ALL EXISTING SIGNS ARE TO REMAIN, PROTECT IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

FAST
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Avoid buried utilities and costly mistakes. It's easy.
Call 811

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REV	DATE	BY	REVISION
			As Built

STRIPING AND SIGNING PLAN
STA 31+00.00 TO STA 47+00.00

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: MM 6/19/2012
DESIGNED BY: LMW/JRSH 6/19/2012
CHECKED BY: RDH 6/19/2012
PROJECT NO: 7359
SCALE HORIZ. 1"=40' VERT. N/A

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT D. HOSEA JR.
EXP. 06/30/13
CIVIL
No. 10112

SHEET T3 OF SHEETS
DRAWING NO. 107A5684

R:\7300\Sheet Set\Sheet Files\Sheet Drawings\Drawings\dwg\mmar, Jun 19, 2012 - 10:47am

CLV Bid No. 12.1730.01 – Electric Bikes Program Improvements – As Built Drawings – Aggregate Industries SWR, Inc.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

(VERIFY SCALE – PLANS MAY HAVE BEEN REDUCED)

CONSTRUCTION NOTES:

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4. INSTALL SKIP LINE PER USD. 244.9 (THERMOPLASTIC)
5. INSTALL CROSSWALK/STOP BAR PER USD NO. 254 (FILM)
8. INSTALL R3-17 BIKE SIGN

NO CHANGES

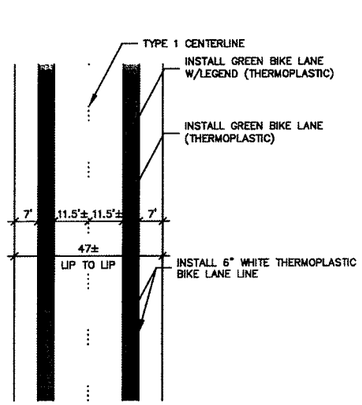
9. INSTALL R3-17 MOD BIKE SIGN

18" X 24"

11. EXISTING STRIPING TO REMAIN
13. REPLACE EXISTING SIGN POST WITH LONG SIGN POST. RE-INSTALL EXISTING SIGN AND INSTALL NEW SIGN

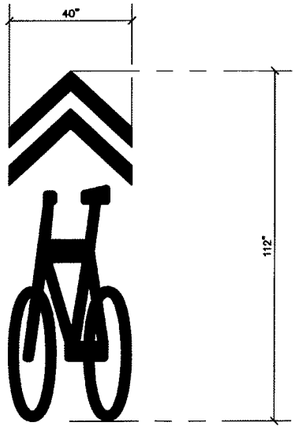
NOTES:

1. ALL EXISTING SIGNS ARE TO REMAIN, PROTECT IN PLACE UNLESS OTHERWISE NOTED ON PLANS.



TYPICAL LANE LAYOUT

1 TYPICAL LANE DIMENSIONS
NOT TO SCALE



2 SHARROW BIKE LANE LEGEND (FILM)
NOT TO SCALE

SEE SHEETS RP1-RP4 FOR FOR STRIPING REMOVAL

FAST

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STRIPING AND SIGNING PLAN
STA 47+00.00 TO STA 50+98

DOWNTOWN PED AND BICYCLE IMP
6TH STREET
CHARLESTON BLVD TO STEWART AVE

DRAWN BY: DAM 6/19/2012
DESIGNED BY: MW/ASH 6/19/2012
CHECKED BY: RGH 6/19/2012
PROJECT NO: 7350
SCALE: HORIZ. 1"=40' VERT. N/A

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT G. HOSEA JR.
EXP. 06/30/13
CIVIL
No. 9012
6-19-12

SHEET
T4
OF SHEETS

DRAWING NO.
107V5684

I:\7350\Sheet Set\Sixth Street\7350 Sixth Street Striping Augmented Jan 19, 2012 - 15-41.dgn