

LOCATION MAP

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE DETAILS AND GENERAL NOTES. DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
3. WHERE NO DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK, DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
4. SEE DRAWING S-1 FOR STRUCTURAL NOTES.
5. - INDICATES NOTE REFERENCED ON DWG.
6. "STANDARD DETAILS" REFERS TO STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION. SEE VOLUME 1 OF 2 OF THE CONTRACT DOCUMENTS.

**SURVEY CONTROL**

1. BASIS OF BEARING AND COORDINATES IS THE CARSON CITY COORDINATE SYSTEM.
2. VERTICAL DATUM IS USGS MSL.
3. HORIZONTAL CONTROL: CONTROL POINT "230151L" IS LOCATED AT N1,609,558.00 E174,277.95 (ALSO THE W 1/4 S15, T15N, R20E, MDM). CONTROL POINT "LYN" IS LOCATED AT N1,619,315.69 E188,812.73 (MONUMENTED WITH A 3-1/4" ALUMINUM CAP SITUATED ON TOP OF A HILL WITHIN THE N 1/2 SE 1/4 S1, T15N, R20E, MDM ON THE NORTHWEST SIDE OF THE CARSON CITY LANDFILL PROPERTY).
4. VERTICAL CONTROL: ELEVATION OF CONTROL POINT "230151L" IS 4620.00'.

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**CODE INFORMATION**

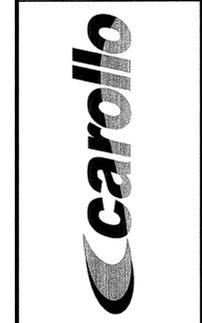
NEW FACILITY DESIGN CODE: INTERNATIONAL BUILDING CODE 2006							
NEW FACILITY NAME:	IBC OCCUPANCY	CONSTRUCTION TYPE	FINISHED FLOOR AREA (SQ. FT.)	OCC LOAD	SPRINKLERED?	MEETS ADA?	REMARKS
NORTH LIFT SCREENING STRUCTURE	U*	TYPE II-B	253	NA	NA	NA	Buried, water-bearing process structure
NORTH LIFT METER VAULT	U*	TYPE II-B	110	NA	NA	NA	Buried vault
5TH STREET INFLUENT STRUCTURE	U*	TYPE II-B	36	NA	NA	NA	Buried, water-bearing process structure

EXISTING FACILITY DESIGN CODE: UBC							
EXISTING FACILITY NAME:	IBC OCCUPANCY	CONSTRUCTION TYPE	FINISHED FLOOR AREA (SQ. FT.)	OCC LOAD	SPRINKLERED?	MEETS ADA?	REMARKS
NORTH LIFT PUMP STATION	F-2	TYPE II-B	500	NA	NO	NO	Existing concrete modified per structural drawings

\* The 'U' designation applies to unoccupied structures that are not otherwise classified.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED	JBR	DRAWN	ARE	CHECKED	GAG	DATE	OCTOBER 2010
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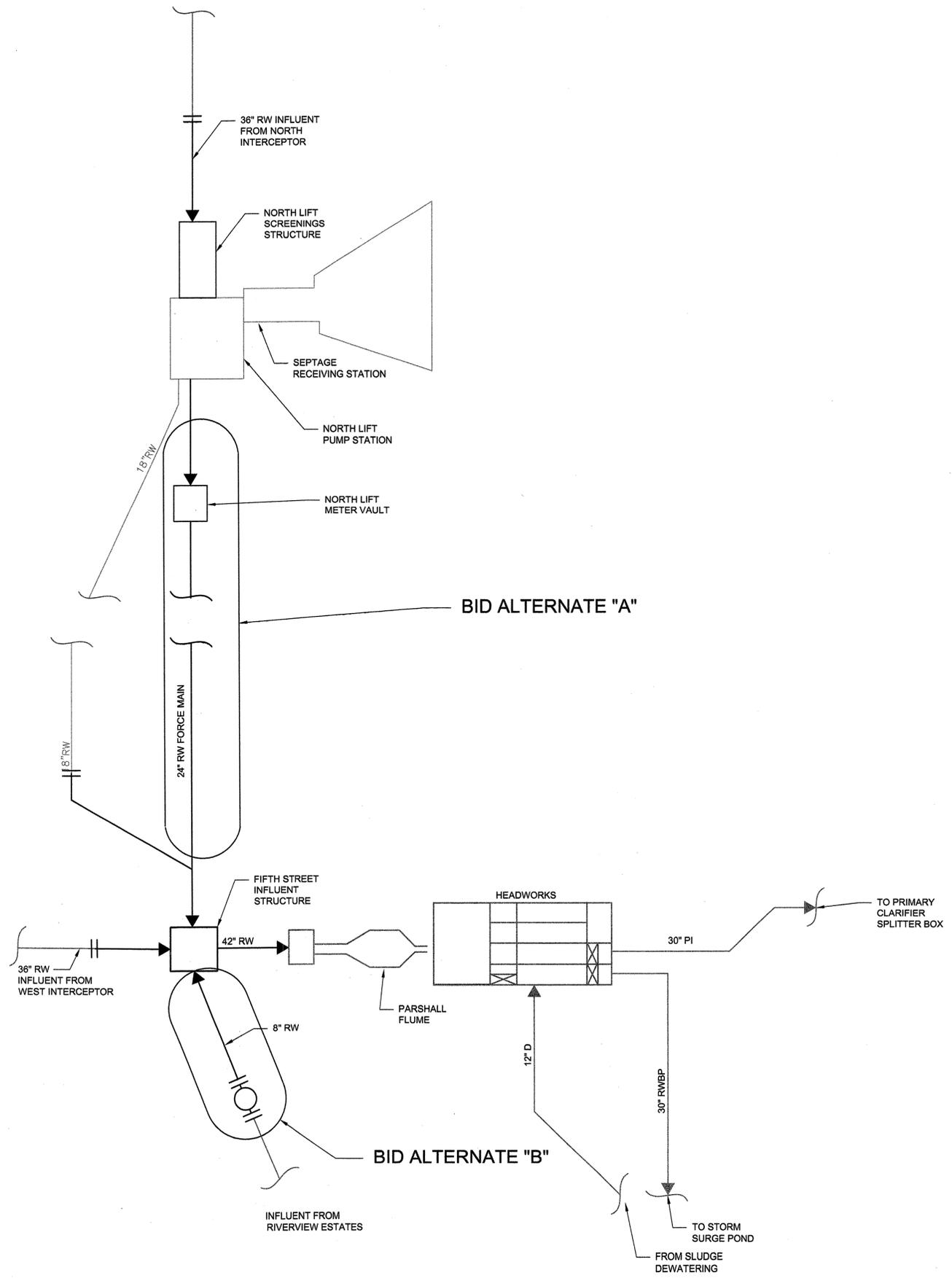
REV.	DATE	DESCRIPTION	BY	APP'D

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 GENERAL  
 LOCATION MAP, SHEET INDEX AND CODE INFORMATION

DRAWING NO.  
**G-2**  
 SHEET NO.  
 2 OF 55



NTS



DESIGN CRITERIA

DESCRIPTION	UNITS	IMPROVEMENTS PROJECT	ULTIMATE
<b>I PLANT FLOWS</b>			
AVERAGE ANNUAL (AAF)	MGD	6.2	-
PEAK DAILY FLOW (PDF)	MGD	7.9	-
<b>NORTH LIFT PUMP STATION FLOWS</b>			
AVERAGE ANNUAL (AAF)	MGD	3.0	-
PEAK DAILY FLOW (PDF)	MGD	3.8	-
PEAK HOUR FLOW (PHF)	MGD	7.6	14.40
<b>II NORTH LIFT SCREENING STRUCTURE</b>			
SCREEN TYPE	-	SELF CLEANING MECHANICAL	-
QUANTITY	-	1	-
CAPACITY	MGD	15	-
<b>WASHER COMPACTOR</b>			
TYPE	-	SHAFTED CONVEYOR	-
QUANTITY	-	1	-
CAPACITY	CF/HR	7.0	15.0

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JBR		
DRAWN		
ARE		
CHECKED		
GAG		
DATE		



REV.	DATE	DESCRIPTION	BY	APP'D

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 GENERAL  
 OVERALL PROCESS SCHEMATIC & DESIGN CRITERIA

DRAWING NO.  
**G-3**  
 SHEET NO.  
 3 OF 55



- GENERAL NOTES:**
- SHORING SHOWN ON THIS DRAWING IS MINIMUM REQUIRED, SEE SPECIFICATION 02260
  - ADD SHORING AS REQUIRED TO PROTECT EXISTING STRUCTURES, NEW STRUCTURES AND UTILITIES. COORDINATE WITH CONSTRUCTION SEQUENCING PLAN.
  - CONTRACTOR HAS ONE STAGING AREA. COORDINATE STAGING AREA CONSTRUCTION WITH CARSON CITY PUBLIC WORKS. REFER TO SECTIONS 01140 FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL USE CONSTRUCTION ACCESS ROAD/ROUTE FOR ALL TRAFFIC AS SHOWN ON THIS DRAWING AND IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 01140.
  - ALL PARKING AND STORAGE FOR CONTRACTORS OPERATIONS (EMPLOYEES, SUBCONTRACTORS, ETC.) SHALL BE INSIDE OF STAGING AREA SHOWN ON THIS DRAWING AND IN ACCORDANCE WITH SECTION 01140.
  - CONTRACTOR SHALL INSTALL COMPANY SIGNS TO DIRECT EMPLOYEES, SUBCONTRACTORS, AND DELIVERIES TO THE STAGING AREA.
  - AT ALL TIMES DURING CONSTRUCTION, EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED.

- LEGEND:**
- DENOTES APPROXIMATE SHORING LOCATION
  - CONTRACTOR VEHICLE ACCESS
  - CONTRACTOR STAGING AREA

- KEY NOTES:**
- NORTH LIFT METER VAULT AND ASSOCIATED WORK PART OF BID ALTERNATE "A"
  - NEW MANHOLE FOR PART OF BID ALTERNATE "B"
  - COORDINATE WITH OWNER FOR SEPTAGE RECEIVING, SEE SPEC 01140.

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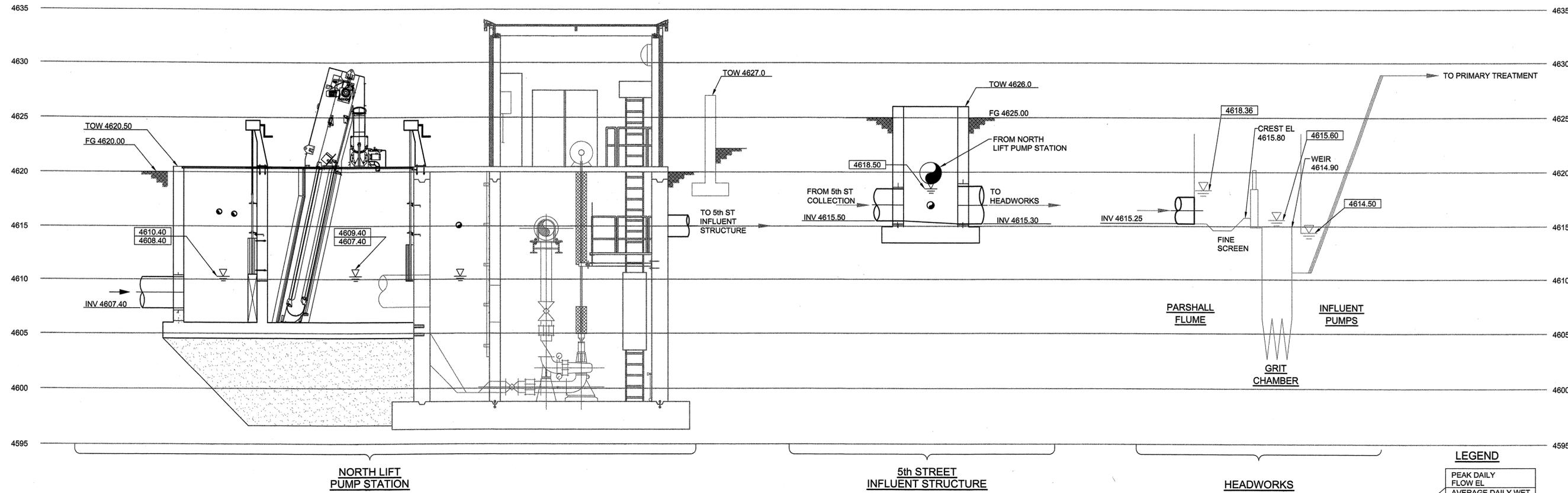
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REV.	DATE	DESCRIPTION	BY	APPD

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 GENERAL  
 ACCESS, STAGING & SHORING PLAN

DRAWING NO.  
**G-4**  
 SHEET NO.  
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**LEGEND**  
 PEAK DAILY FLOW EL.  
 AVERAGE DAILY WET WEATHER FLOW EL.

**A HYDRAULIC PROFILE**  
 VERTICAL: 1" = 1'-0"  
 HORIZONTAL: NTS

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 IF NOT ONE INCH ON ORIGINAL DRAWING SCALES ACCORDINGLY

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CHECKED	GAG
DATE	OCTOBER 2010



REV.	DATE	DESCRIPTION	BY	APPD

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 GENERAL  
 HYDRAULIC PROFILE

DRAWING NO.  
**G-5**  
 SHEET NO.  
 5 OF 55

**PIPE SERVICE ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
A:	
AA	ACTIVATED SLUDGE EFFLUENT AERATION AIR
C:	
CAUSTIC	SODIUM HYDROXIDE (CAUSTIC SODA)
CC	CARSON CITY
CE	CHLORINATED EFFLUENT
CFA	COMPRESSED FILTER AIR
CD	CHEMICAL DRAIN
CS	CHLORINE SOLUTION
CW	CITY WATER
D:	
D	DRAIN
DC	DECANT
DG	DIGESTER GAS
DS	DIGESTED SLUDGE
E:	
EC	ELECTRICAL CONDUIT
F:	
FA	FOUL AIR DUCT
FC	FILTER COAGULANT
FE	FINAL EFFLUENT
FDR	FILTER DRAIN
FI	FILTER EFFLUENT
FL	FILTER INFILTRANT
FRW	FILTER REJECT WATER
FW	FIRE WATER
H:	
HPA	HIGH PRESSURE AIR
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HYP	SODIUM HYPOCHLORITE
M:	
ML	MIXED LIQUOR
N:	
NG	NATURAL GAS
P:	
PD	PUMPED DRAIN
PE	PRIMARY EFFLUENT
PI	PRIMARY INFILTRANT
POL	POLYMER
POLS	POLYMER SOLUTION
PS	PRIMARY SLUDGE
PW	PLANT WATER
R:	
RAS	RECYCLED ACTIVATED SLUDGE
RD	ROOF DRAIN
RECYCLE	DAF RECYCLE
RS	RAW SLUDGE
RW	RAW WASTEWATER
RWBP	RAW WASTEWATER BYPASS
S:	
SC	SCUM
SSC	SECONDARY SCUM
SD	STORM DRAIN
SE	SECONDARY EFFLUENT
SN	SECONDARY SCUM
SS	SANITARY SEWER
SSC	SUPERNATANT
SPW	SPRAY WATER
T:	
TFE/TF	TRICKLING FILTER EFFLUENT
TFBP	TRICKLING FILTER BYPASS
TWAS	THICKENED WASTE ACTIVATED SLUDGE
W:	
WAS	WASTE ACTIVATED SLUDGE
1W	NO. 1 WATER
2W	NO. 2 WATER
3W	NO. 3 WATER
3WS	SOFTENED NO. 3 WATER

ABBREVIATION	DESCRIPTION
A:	
@	AT
A	AMPERES
AB	ANCHOR BOLT, AGGREGATE BASE
ABAND or ABND	ABANDONED
AC	ASPHALTIC CONCRETE
A/C	AIR CONDITIONING
ACOUS	ACOUSTIC
ACP	ASBESTOS CEMENT PIPE
ADD	ADDENDUM, ADDITION (AL)
ADPT	ADAPTER
AL or ALUM	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM SULPHATE
AMB	AMBIENT
ANC	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AR	AIR RELEASE
ARV	AIR RELIEF VALVE
ASL	ASH SLURRY
AT	ALUMINUM THRESHOLD
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	ANGLE VALVE
AVG	AVERAGE
B:	
BC	BEGINNING OF CURVE
BF	BLIND FLANGE
BKHD	BULKHEAD
BKR	BREAKER
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM/BENCHMARK
BO	BLOWOFF
BOD	BIOCHEMICAL OXYGEN DEMAND
BOT	BOTTOM
BP	BYPASS
BRKT	BRACKET
BRZ	BRONZE
BTU	BLACK STEEL PIPE
BTU	BRITISH THERMAL UNIT
BU	BUILT-UP
BLV or BTV	BUTTERFLY VALVE
BV	BALL VALVE
C:	
CAP	CAPACITY
CB	CATCH BASIN
CC	CENTER TO CENTER
CCP	CONCRETE CYLINDER PIPE
CCPW	CARSON CITY PUBLIC WORKS
CCSP	CEMENT MORTAR LINED & COATED STEEL PIPE
CD	CEILING DIFFUSER
CEM	CEMENT
CFH	CUBIC FOOT PER HOUR
CFM	CUBIC FOOT PER MINUTE
CFS	CUBIC FOOT PER SECOND
CG	COMPOUND GAUGE or CHLORINE GAS
C & G	CURB AND GUTTER
CHKR	CHECKER
CIP	CAST IRON PIPE
CIRCUM	CIRCUMFERENCE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CHLORINE OR CLEARANCE
CL or C	CENTER LINE
CLAR	CLARIFIER
CLG	CEILING
CLK	CLOCK
CLR	CLEAR
CLM	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEANOUT
COD	CHEMICAL OXYGEN DEMAND
CONC	CONCRETE
COL	COLUMN
COLL	COLLECTOR
COMP	COMPRESSOR
COMPT	COMPARTMENT
CON	CONCENTRIC
COND	CONDUCTOR OR CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION (OUS)(ED)
CP	NON-REINFORCED CONCRETE PIPE
CPI	CONTROL POWER INTERLOCK
CPLG	COUPLING
CPT	CONTROL POWER TRANSFORMER
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
CREJ	CORRUGATED RUBBER EXPANSION JOINT
CS	CHLORINE SOLUTION
CSK	COUNTERSUNK
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	CONTROL UNIT OR COPPER PIPE
CV	CHECK VALVE
CW	COLD WATER
CYL	CYLINDER
D:	
D	DRAIN
DAF	DISSOLVED AIR FLOTATION
DBL	DOUBLE

ABBREVIATION	DESCRIPTION
DCI	DUCTILE CAST IRON
DCG	DECOMPOSED GRANITE
DE	DENSITY METER
DEG	DEGREE
DET	DETAIL
DF	DOUGLAS FIR
DFD	DUCT FIRE DAMPER
DG	DIGESTER GAS
DI	DROP INLET
DIA	DIAMETER
DIAG	DIAGRAM
DIF	DIFFUSER
DIFF	DIFFERENTIAL
DIG	DIGESTER
DIP	DUCTILE IRON PIPE
DIS	DISTILLED WATER
DISCH	DISCHARGE
DIZ	DEIONIZED WATER
DM	DAMPEN MOTOR
DN	DOWN
DO	DISSOLVED OXYGEN
DR	DOOR
DS	DIGESTED SLUDGE OR DOWNSPOUT
DT	DRIP TRAP
DUP	DURIRON PIPE
DV	DIAPHRAGM VALVE
DW	DISHWASHER
DWG	DRAWING
E:	
E	EASTING
EA	EACH
EC	END OF CURVE
ECC	ECCENTRIC
ED	EQUIPMENT DRAIN
EDF	ELECTRIC DRINKING FOUNTAIN
EE	EACH END
EF	EXHAUST FAN OR EACH FACE
EFF	EFFLUENT
EJ	EXPANSION JOINT
EL	ELEVATION
ELCSP	EPOXY LINED & COATED STEEL PIPE
ELEC	ELECTRIC (AL)
ELL	ELBOW
EMBED	EMBEDMENT
EMER	EMERGENCY
EMH	ELECTRICAL MANHOLE
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EX	EXTRA
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED EXPANSION
EXT	EXTERIOR
F:	
FA	FRESH AIR
FAB	FABRICATE (D) (TION)
FAI	FRESH AIR INTAKE
FB	FLAT BAR OR FLOOR BEAM
FC	FLEXIBLE COUPLING
FCA	FLANGED COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FCR	FINE CRUSHED ROCK
FD	FLOOR DRAIN
FDR	FEEDER
FE	FLOW ELEMENT (METER)
FG	FINISH GRADE OR FLAP GATE
FGP	FIBERGLASS PIPE
FGP	FIBERGLASS
FI	FIRE HYDRANT
FHD	FLATHEAD
FIN	FINISH (ED)
FL	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE (D)
FM	FORCE MAIN
FPC	FLEXIBLE PIPE COUPLING
FPC-T	FLEXIBLE PIPE COUPLING TO TAKE TENSION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP or FRMP	FIBERGLASS REINFORCED MORTAR PIPE
FS	FAR SIDE
FT	FEET OR FOOT
FTG	FOOTING
FUT	FUTURE
FW	FLAT WASHER
G:	
GA	GAUGE
GAF	GALVANIZED AFTER FABRICATION
GALV	GALVANIZED
GBV or GLV	GLOBE VALVE
GD	GUARD
GEN	GENERAL
GC	GROOVED COUPLING
GL	GLASS
GLCIP	GLASS LINED CAST IRON PIPE
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
GRDR	GRINDER
GS	GALVANIZED STEEL
GSKT	GASKET
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GV & B	GATE VALVE & VALVE BOX
GWB	GYPSUM WALL BOARD

**STANDARD ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
A:	
H/A	HAND AUTOMATIC
HC	HOLLOW CORE
HD	HEAVY DUTY
HDOOT	HEAVY DUTY OIL TIGHT
HDR	HEADER
HGLV	HOSE GLOBE VALVE
HGR	HANGER
HGV	HOSE GATE VALVE
HM	HOLLOW METAL
HN	HEX NUT
HOA	HAND-OFF-AUTOMATIC
HOR or HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH PRESSURE
HR	HANDRAIL, HOUR, HEAT RESERVOIR
HS	HIGH STRENGTH, HEAVY STREET
HTR	HEATER
HV	HEATING & VENTILATING
HV	HOSE VALVES, HOSE BIBB,
HV	HEADER VALVE
HWD	HIGH WATER, HOT WATER
HW	HARDWOOD
HYD	HYDRAULIC OR HYDRANT
HZ	HERTZ (CYCLES PER SECOND)
I:	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IL	INDICATING LAMP
IN	INCH
INF	INFILTRANT
INS	INSULATED (ION)
INST	INSTANTANEOUS
INSTR	INSTRUMENT
INT	INTERIOR
INTLK	INTERLOCK
INV	INVERT
INVEL	INVERT ELEVATION
IP	IRON PIN
IT	INSTRUMENT TAP
J:	
JB	JUNCTION BOX
JCT	JUNCTION
JH	JOIST HANGER
JST	JOIST
JT	JOINT
K:	
KG	KNIFE GATE
KV	KILOVOLT
L:	
LAM	LAMINATED
LBS	POUNDS
LEV	LEVEL
LG	LONG
LF	LINEAL FEET
LI	LIFTING INSERT
LOS	LOCKOUT STOP
LP	LOW PRESSURE
LR	LONG RADIUS
LTG	LIGHTING
LV	LOW VOLTAGE, LINE VALVE
LVR	LOUVER
LWR	LOWER
M:	
M	MIRROR
MA	MILLIAMPERE
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MBH	THOUSAND BTU'S PER HOUR
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MG/L	MILLIGRAMS PER LITER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MK	MARKED
ML	MILLILITER, MIXED LIQUOR
MO	MOTOR OPERATOR
MOD	MODEL
MOS	MOWING STRIP
MS	METAL STUDS
MT	METAL THRESHOLD
MTR	MOTOR
MU	MIRROR UNIT
MV	MUD VALVE, MILLIVOLTS
MWS	MAXIMUM WATER SURFACE
MX	AUXILIARY RELAY
N:	
N	NORTHING
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NIC	NOT IN CONTRACT
NIS	NOT IN SERVICE
NG	NATURAL GAS
NO	NORMALLY OPEN, NUMBER
NP	NAMEPLATE
NPS	NON-PROJECTING STEM
NPSH	NET POSITIVE SUCTION HEAD
NRS	NON-RISING STEM
NTS	NOT TO SCALE
NV	NEEDLE VALVE
NWL	NORMAL WATER LEVEL

ABBREVIATION	DESCRIPTION
O:	
OA	OUTSIDE AIR
OB	OPPOSED BLADE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OL	OVERLOAD
OPNG	OPENING
OPP	OPPOSITE
P:	
PB	PULL BOX
PBV	PLASTIC BALL VALVE
PC	POINT OF CURVATURE
PCHV	PINCH VALVE
POMP	PERFORATED CORRUGATED METAL PIPE
PCV	PLASTIC CHECK VALVE
PG	PRESSURE GAUGE
PH	PHASE
PI	POINT OF INTERSECTION
PL	PEAK
PL	PLATE, PIPELINE, PROPERTY LINE
PLAC	PLASTIC LINED ASBESTOS CEMENT
PLAS	PLASTIC
PLCS	PLACES
PMF	PREMIXED FILLER
PMS	PLANT MIX SURFACING
PNEU	PNEUMATIC
PNL	PANEL, PANELBOARD
PP	POWER POLE
PRCCP	PRESSED CONCRETE CYLINDER PIPE
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRFV	PRESSURE RELIEF VALVE
PRI	PRIMARY
PRV	PRESSURE REGULATION (REDUCING)
PS	PRESSURE SWITCH, PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PSL	PIPE SLEEVE
PT	POINT OF TANGENT
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE PIPE
PVT or PVMT	PAVEMENT
PWD	PLYWOOD
Q:	
QCPLG	QUICK COUPLING
R:	
R	RADIUS, RISER, RUN, CONTRACTOR
RA	RETURN AIR
RB	RED BRASS
RBO	(TO BE) REMOVED BY OTHERS
R/C	REINFORCED CONCRETE
RCDR	RECORDER
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, RED BRASS PIPE
RECIR	RECIRCULATE
RECP	RECEPTACLE
RED	REDUCER
REG	REGULATE
REHAB	REHABILITATE
REINF	REINFORCE (ED) (ING)
REM	REMOVE (ABLE)
REQ'D	REQUIRED
RE-STL	REINFORCING STEEL
REV	REVISE (ED) (IONS)
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE, REINFORCED PLASTIC MORTAR PIPE
RR	RAILROAD
R & R	REMOVE & RELOCATE (REINSTALL)
R & S	REMOVE & SAVE
RV	RELIEF VALVE
R/W	RIGHT-OF-WAY
R & W	REMOVE & WASTE
RWD	REDWOOD
RWL	RAIN WATER LEADER
RWP	RAIN WATER PIPE
RX	AUXILIARY RELAY TO R
S:	
S	START CONTACTOR
SA	SUPPLY AIR, SERVICE AIR
SCH	SCHEDULE
SCV	SPLIT CHECK VALVE
SD	SOAP DISPENSER
SE	SEWER EASEMENT
SECT	SECTION
SEL	SELECTOR
SG	SLUICE GATE
SH	SHEET
SIM	SIMILAR
SL	SLOPE
SLS	SARAN LINED STEEL
SO2	SULFUR DIOXIDE
SP	STATIC PRESSURE, STOP, STRUCTURAL PLYWOOD
S & P	SHelf & POLE
SD	SPLITTER DAMPER
SPEC	SPECIFICATIONS
SQ	SQUARE
SR	SHORT RADIUS
SS	STAINLESS STEEL
S & S	STUB & STOPPER
SSK	SERVICE SINK
SSP	STAINLESS STEEL PIPE
SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
ST	START
STA	STATION

ABBREVIATION	DESCRIPTION
STD	STANDARD, STORM DRAIN
STL	STEEL
STOR	STORAGE
STR	STRONG, STRAINER
STRUCT	STRUCTURAL
STSTL	STAINLESS STEEL
SUPP	SUPPORT
SURF	SURFACE
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWD	SIDE WATER DEPTH
SX	AUXILIARY RELAY TO S
SYM	SYMMETRICAL
T:	
T & B	TOP AND BOTTOM
TC	TIME CLOSING CONTACT
TD	TANK DRAIN, TOWEL DISPENSER
TDH	TOTAL DYNAMIC HEAD
TE	TOTALLY ENCLOSED
TEMP	TEMPERATURE, TEMPORARY
T & G	TONGUE & GROOVE
TH	THERMOMETER
THY	THYRISTE PROTECTOR
TM	TIME METER-HOURS
TO	TOP OF
TOB	TOP OF BERM
TOC	TOP OF CURB
TOD	TOP OF DRAIN
TOW	TOP OF WALL
TPH	TOILET PAPER HOLDER
TPI	TEST POWER INTERLOCK
TPU	TIME PICK UP
TR	STAIR TREAD, TIMING RELAY
TRAN	TRANSFORMER
TS	STRUCTURAL TUBE
TV	THERMOSTATIC VALVE
TYP	TYPICAL
U:	
UC	UNDER CONSTRUCTION
UG	UNDERGROUND
UN	UNION
UP	UTILITY POLE
UNO	UNLESS NOTED OTHERWISE
V:	
V	VALVE, VENTS, VOLTS
VAC	VACUUM, VOLTS ALTERNATE CURRENT
VAR	VARIABLE (ABLE)
VAT	VINYL ASBESTOS TILE
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VDC	VOLTS DIRECT CURRENT
VERT	VERTICAL
VG	VACUUM GAUGE
VIC CPLG	VICTAULIC COUPLING
VSW	VACUUM SWITCH
VT	VINYL TILE
VTR	VENT THROUGH ROOF
W:	
W	WATTS
W	WITH
WC	WATER CLOSET, WATER COLUMN
WCO	WALL CLEANOUT
WOOD	WOOD
WG	WASTE GAS
WH	WATER HEATER
WI	WROUGHT IRON
W/O	WITHOUT
WP	WATER OR WEATHER PROOF
WPJ	WEAKENED PLANE JOINT
WS	WATER SURFACE, WELDED STEEL
WSP	WELDED STEEL PIPE
WSTP	WATERSTOP
WT	WATERTIGHT
WWF	WELDED WIRE FABRIC
WWTP	WASTE WATER TREATMENT PLANT
Y:	
YCO	YARD CLEANOUT

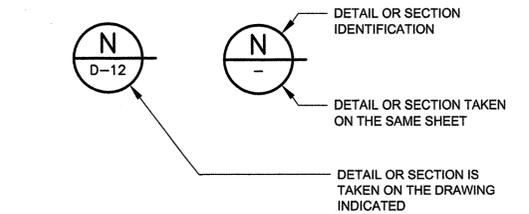
**CIVIL LEGEND**

NEW STRUCTURES	
EXISTING STRUCTURES	
NEW PIPING (TRIPLE LINES)	
NEW PIPING (SINGLE LINE)	
EXISTING PIPING (TRIPLE LINES)	
EXISTING PIPING (SINGLE LINE)	
HIDDEN LINE	
CENTER, MONUMENT, OR SURVEY LINE	
GUARDRAIL	
EXISTING CONTOURS	
NEW CONTOURS	
NEW CONTOURS BY OTHERS	
NEW FENCE	
EXISTING FENCE	
NEW POWER POLE & LINE	
EXISTING POWER POLE & LINE	
PROPERTY LINE OR RIGHT OF WAY	
NEW SLOPE	
EXISTING SLOPE	
FUTURE CONSTRUCTION	
EXISTING ROAD	
CURB & GUTTER	
REMOVAL	
ABANDON IN PLACE	
SHORING	
GRADE BREAK	
RIDGE LINE	
FLOW DIRECTION	
FLOW LINE	
NEW LIGHT POLE	
EXISTING LIGHT POLE	
NEW POWER POLE	
EXISTING POWER POLE	
SAVE TREE OR SHRUB	
BENCH MARK	
FIRE HYDRANT	
TREES AND BRUSH	
GUARD POST	
TRAFFIC SIGNS	
CATCH BASIN	
DRAINAGE INLET	
DRAINAGE HEADWALL	
ELECTRICAL MANHOLE AND PULL BOX	

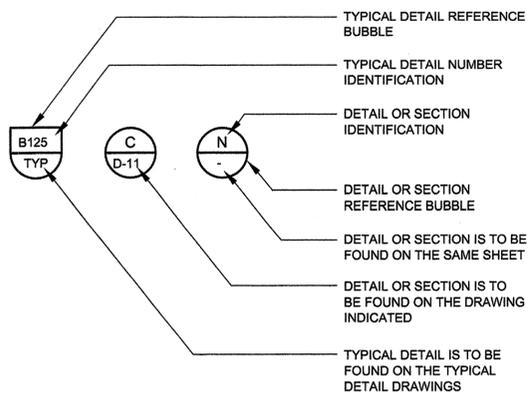
**CIVIL LEGEND (CONT)**

MANHOLE	
DRYWELL	
SLOPE CALLOUT	
ROADWAY CROSS-SLOPE	
ROADWAY GRADE	
DRAINAGE DITCH OR CHANNEL GRADE	
STATE PLANE COORDINATES	
NEW SPOT ELEVATION	
EXISTING SPOT ELEVATION	
ELEVATION	
INVERT ELEVATION	
CENTERLINE ELEVATION	
ROADWAY CURVES	

**DRAWING CROSS REFERENCE**



**AT TITLE**



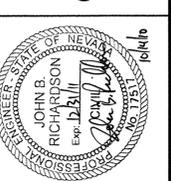
**AT CROSS REFERENCE**

**BUILDING MATERIALS LEGEND**

MATERIAL	EXISTING	REMOVE	NEW	TEMPORARY
CLASS "A", "B", AND "D" CONCRETE				
CLASS "C" CONCRETE				
STEEL				
CAST IRON OR FIBERGLASS				
ALUMINUM				
BRICK OR BLOCK				
WOOD CROSS GRAIN, FINISH				
WOOD, STRUCTURAL				
BRONZE, BRASS, OR COPPER				
STRUCTURAL FILL				
RUBBER				
SOIL				
ASPHALTIC CONCRETE PAVEMENT				
RIP RAP				
TYPE II AGGREGATE BASE ROADWAY OR WALK				
CONCRETE PAVEMENT				

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON ORIGINAL DRAWING, SCALES ACCORDINGLY

DESIGNED	JBR
DRAWN	ARE
CHECKED	GAG
DATE	OCTOBER 2010



REV.	DATE	DESCRIPTION	BY	APP'D

**CARSON CITY PUBLIC WORKS**  
**NORTH LIFT PUMP STATION IMPROVEMENTS**  
 CARSON CITY CIP NO. 5.0609  
 GENERAL LEGENDS & SYMBOLS

DRAWING NO. **G-7**  
 SHEET NO. **7 OF 55**