

# CARSON CITY GATEWAY SIGNAGE PROJECT

CITY OF CARSON CITY, NEVADA

CIP # 3.0731

FEDERAL PROJECT No. SP-000M(146), NDOT I.D. No. 73539

REGIONAL TRANSPORTATION COMMISSION

Ms. Shelly Aldean, Chairperson  
Mr. Russell Carpenter, Vice-Chairperson  
Mr. Bob Crowell  
Mr. Charles Desjardins  
Mr. Jim Mallery

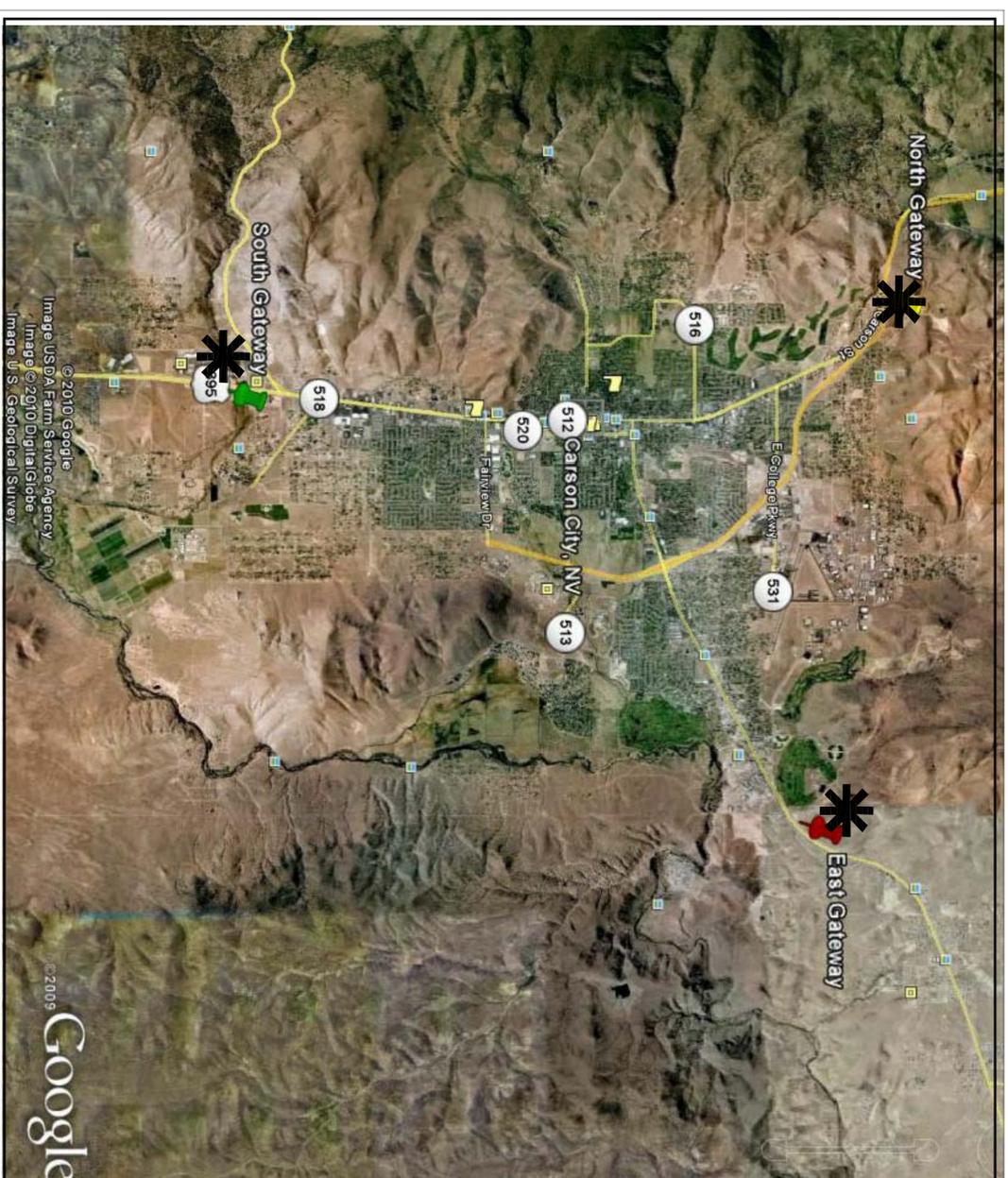
DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT  
TRANSPORTATION/CAPITAL PROJECTS  
3505 BUTTI WAY  
CARSON CITY, NV 89701  
775-887-2355

## GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2007 EDITION, AND THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS ADAPTED BY CARSON CITY.
2. ALL WORK IN AND/ OR RIGHT-OF-WAY SHALL CONFORM TO THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION AND THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION.
3. ALL TRAFFIC CONTROL AND BARRICADING WITHIN CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR 12 CENTER TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. NO STREET CLOSURES WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF A TRAFFIC CONTROL PLAN BY THE CONSTRUCTION MANAGER.
4. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (CALL BEFORE YOU DIG) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH THE REQUIREMENTS OF NAC CHAPTER 455 - EXCAVATION AND DEMOLITIONS.
5. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED INSTALLATION LOCATIONS AND IN AREAS OF POSSIBLE PENETRATING UTILITY INSTALLED UNDERGROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS. HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
6. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHIELDING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
7. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERE TO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
8. THE CONTRACTOR SHALL CALL THE CARSON CITY DEVELOPMENT ENGINEERING DIVISION (887-2300) AT LEAST 2 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
9. MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY CARSON CITY DEVELOPMENT ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY THE DIVISION WILL REQUIRE REMOVAL AT THE CONTRACTOR'S EXPENSE.
10. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
11. PLAN APPROVAL SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F.12.01.140D)

## VICINITY MAP



## SHEET INDEX

L-0	SIGNAGE LOCATION SHEET
L-1	NORTH GATEWAY GRADING & LAYOUT PLAN
L-2	EAST GATEWAY GRADING & LAYOUT PLAN
L-3	SOUTH GATEWAY GRADING & LAYOUT PLAN
L-4	SIGN ELEVATION
L-5	SIGN DETAILS AND TALUS SLOPE DETAILS
L-6	CONSTRUCTION ACCESS DIAGRAMS
SO.1	STRUCTURAL COVER SHEET - GENERAL NOTES
S1.1	ENGINEERED FILL DETAIL AT NORTH SIGN
S1.2	ENGINEERED FILL DETAIL AT EAST SIGN
S1.3	ENGINEERED FILL DETAIL AT SOUTH SIGN
S2.1	PLANS, SECTIONS, AND ELEVATIONS
E-1	LEGEND, SPECIFICATIONS, & DRAWING SCHEDULE
E-2	ELECTRICAL DETAILS & PHOTOMETRICS
E-3	NORTH GATEWAY SIGN ELECTRICAL PLAN
E-4	EAST GATEWAY SIGN ELECTRICAL PLAN
E-5	SOUTH GATEWAY SIGN ELECTRICAL PLAN

## PROJECT REPRESENTATIVES

### PROJECT COORDINATOR

CARSON CITY PUBLIC WORKS DEPARTMENT  
3505 BUTTI WAY  
CARSON CITY, NV 89701  
CONTACT: JEFF SHARP, P.E., CITY ENGINEER  
(775) 283-7084

### LANDSCAPE ARCHITECT

WINSTON ASSOCIATES, INC.  
4696 BROADWAY  
BOULDER, CO 80304  
CONTACT: PAUL KUHN  
(303) 440-9200

### STRUCTURAL ENGINEER

HYTTINEN ENGINEERING  
5458 LONGLEY LANE, SUITE B  
RENO, NEVADA 89511  
CONTACT: ROGER G. HYTTINEN  
(775) 826-3019

### CIVIL ENGINEER

RESOURCE CONCEPTS, INC (RCI)  
340 N MINNESOTA ST  
CARSON CITY, NV 89703-4152  
CONTACT: GEORGE MAHE  
(775) 883-1600

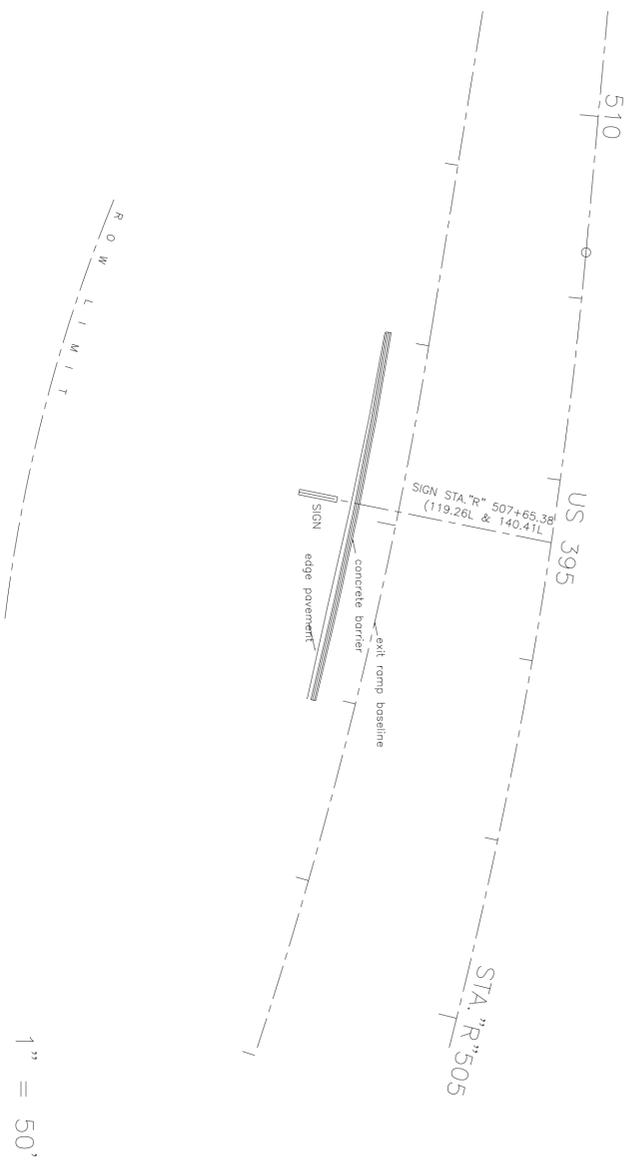
### GEOTECHNICAL

GEOCON CONSULTANTS, INC.  
4010 TECHNOLOGY WAY  
SUITE D  
CARSON CITY, NV 89706  
CONTACT: GARY C. LUCE, PE  
(775) 888-9900

### ELECTRICAL ENGINEER

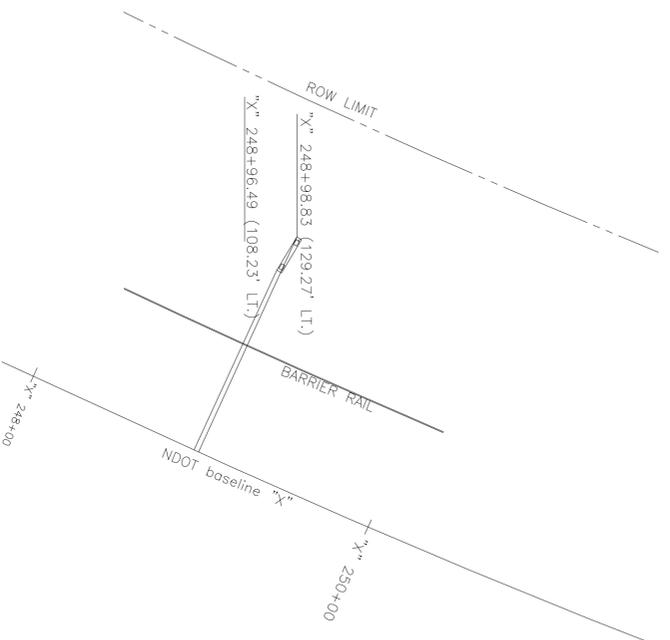
PK ELECTRICAL, INC.  
681 SIERRA ROSE DRIVE, SUITE B  
RENO, NEVADA 89511  
CONTACT: DANTE TURCZEK/ALAN WISKUS  
(775) 826-9010

# NORTH GATEWAY SIGN HGY 395



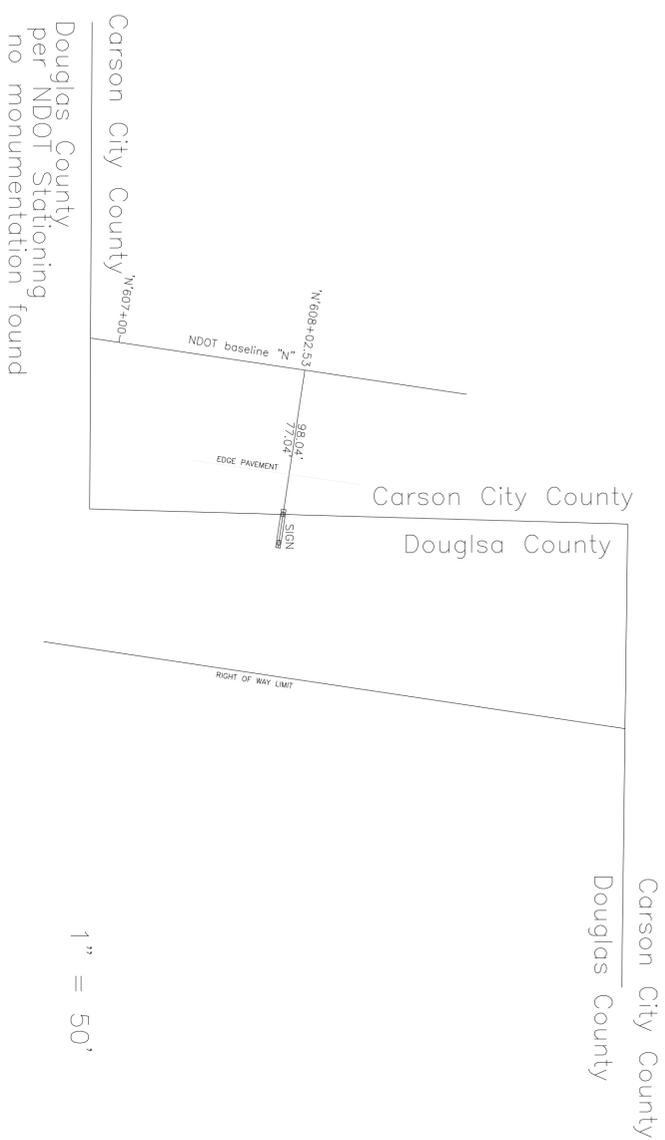
1" = 50'

# EAST GATEWAY SIGN HGY 50



1" = 50'

# SOUTH GATEWAY SIGN HGY 395



1" = 50'

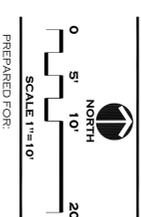
Carson City County  
Douglas County  
per NDOT Stationing  
no monumentation found



**WINSTON ASSOCIATES**  
4696 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-449-6911  
winstonassociates.com

ISSUE RECORD / REVISION:	DATE:
PURPOSE:	DATE:
60% SUBMITTAL	08-13-10
100% SUBMITTAL	03-03-11
FINAL BID SET	07-01-11

# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



SHEET NAME:  
**SIGNAGE LOCATION SHEET**

DATE: **03-03-11**  
DRAWN BY: **RLR**  
CHECKED BY: **PMK**

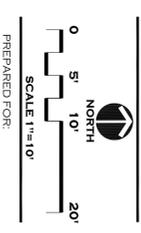
SHEET NUMBER:  
**L-0**

PURPOSE	DATE:
60% SUBMITTAL	08-13-10
100% SUBMITTAL	03-03-11
FINAL BID SET	07-01-11

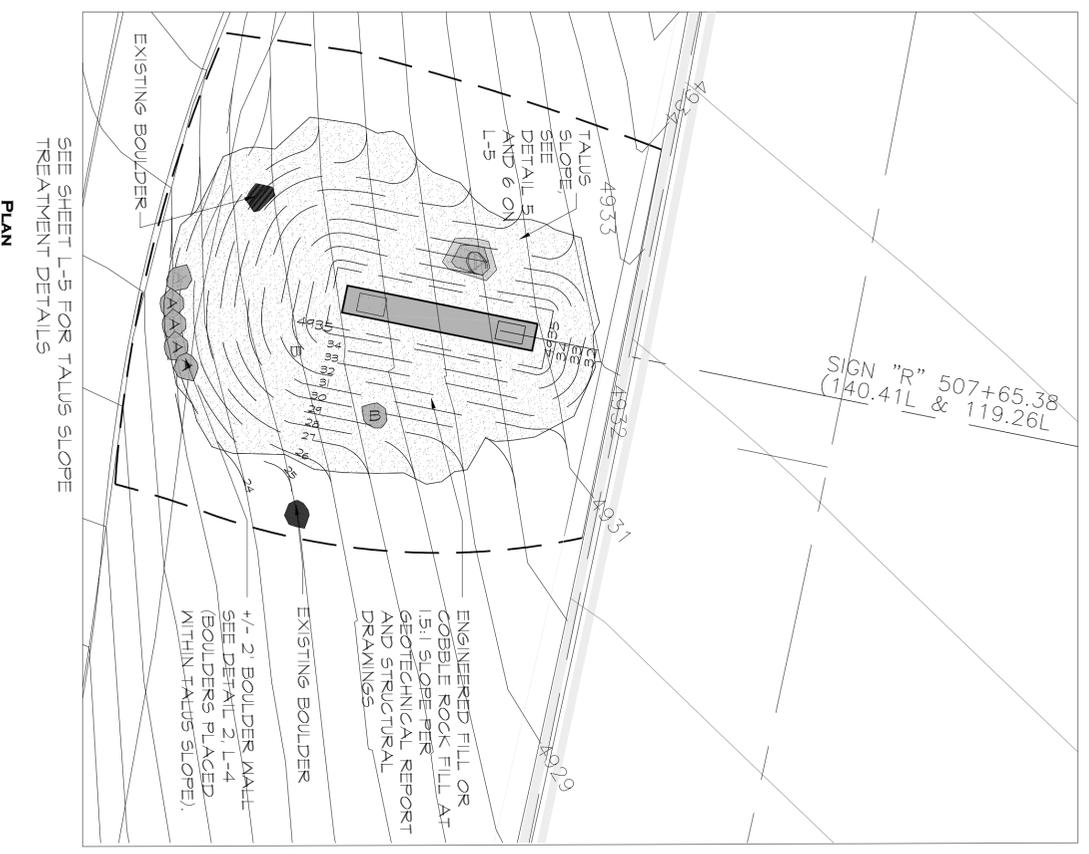
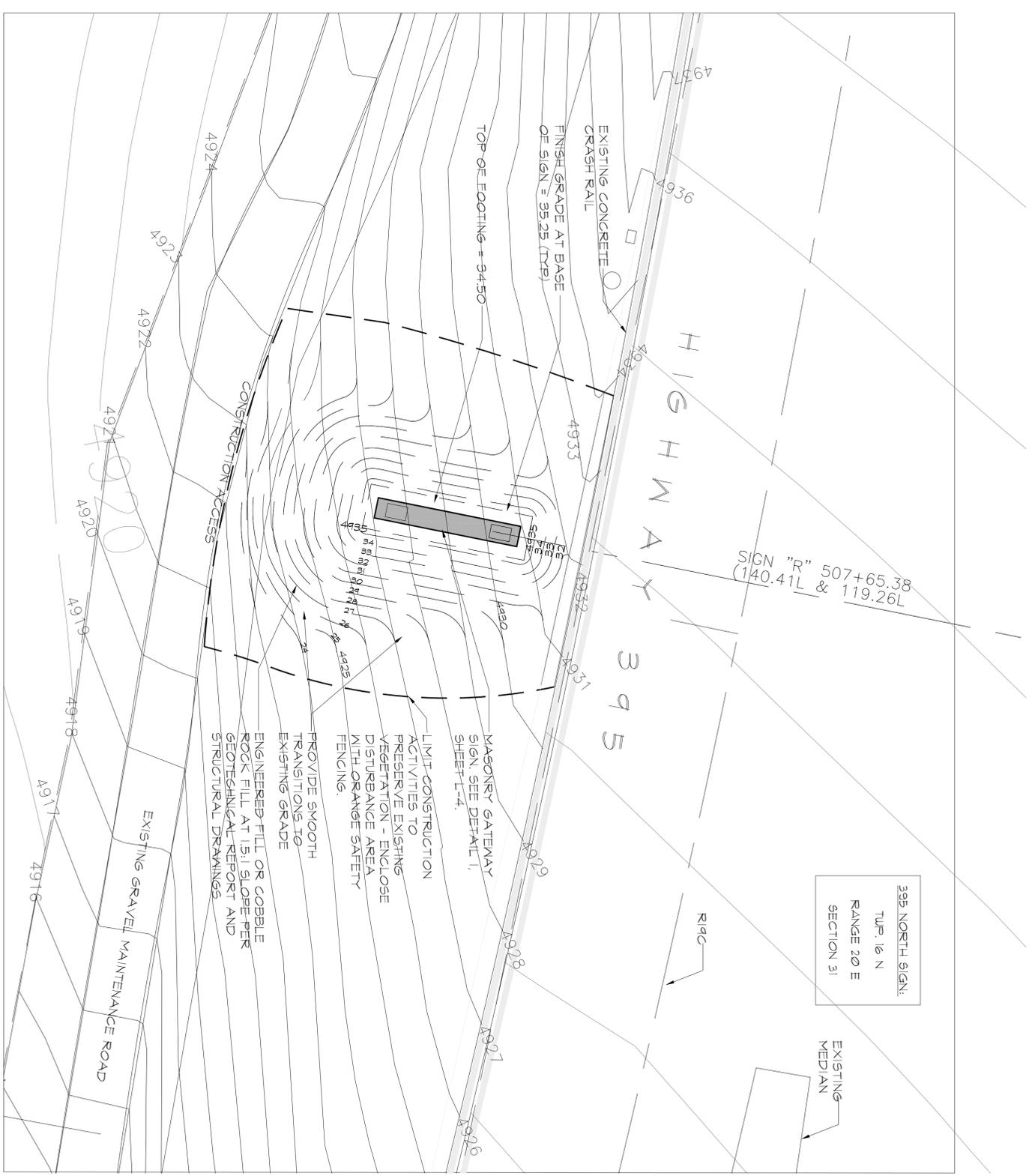
**WINSTON ASSOCIATES**  
 4696 Broadway  
 Boulder, CO 80304  
 TEL: 303-440-9200  
 FAX: 303-449-6911  
 WINSTONASSOCIATES.COM



# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



<b>SHEET NAME:</b>	
NORTH GATEWAY GRADING & LAYOUT PLAN	
<b>DATE:</b>	03-03-11
<b>DRAWN BY:</b>	RLR
<b>CHECKED BY:</b>	PMK
<b>SHEET NUMBER:</b>	L-1



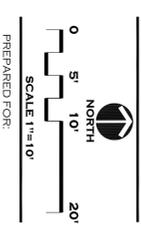
- NOTES:**
- EXISTING VEGETATIVE COVER WITHIN THE APPROVED CONSTRUCTION AREA SHALL BE RESTORED PER SPECIFICATIONS.
  - EXISTING TOPSOIL SHALL BE STOCKPILED WITHIN CONSTRUCTION LIMIT AREA AND REUSED FOR FINAL GRADING AND BACKFILL.
  - EXISTING BOULDERS SHALL BE REMOVED FOR GRADING PURPOSES AND THEN RESET IN THE TALUS SLOPE AREA WITHIN THE BOUNDARY SHOWN IN PLAN PER DIRECTION OF THE CONSTRUCTION MANAGER.

PURPOSE	DATE:
60% SUBMITTAL	08-13-10
100% SUBMITTAL	03-03-11
FINAL BID SET	07-01-11

WINSTON  
 4696 Broadway  
 Boulder, CO 80304  
 TEL: 303-440-9200  
 FAX: 303-449-6911  
 WINSTONASSOCIATES.COM



# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



SHEET NAME:  
**EAST GATEWAY  
 GRADING & LAYOUT  
 PLAN**

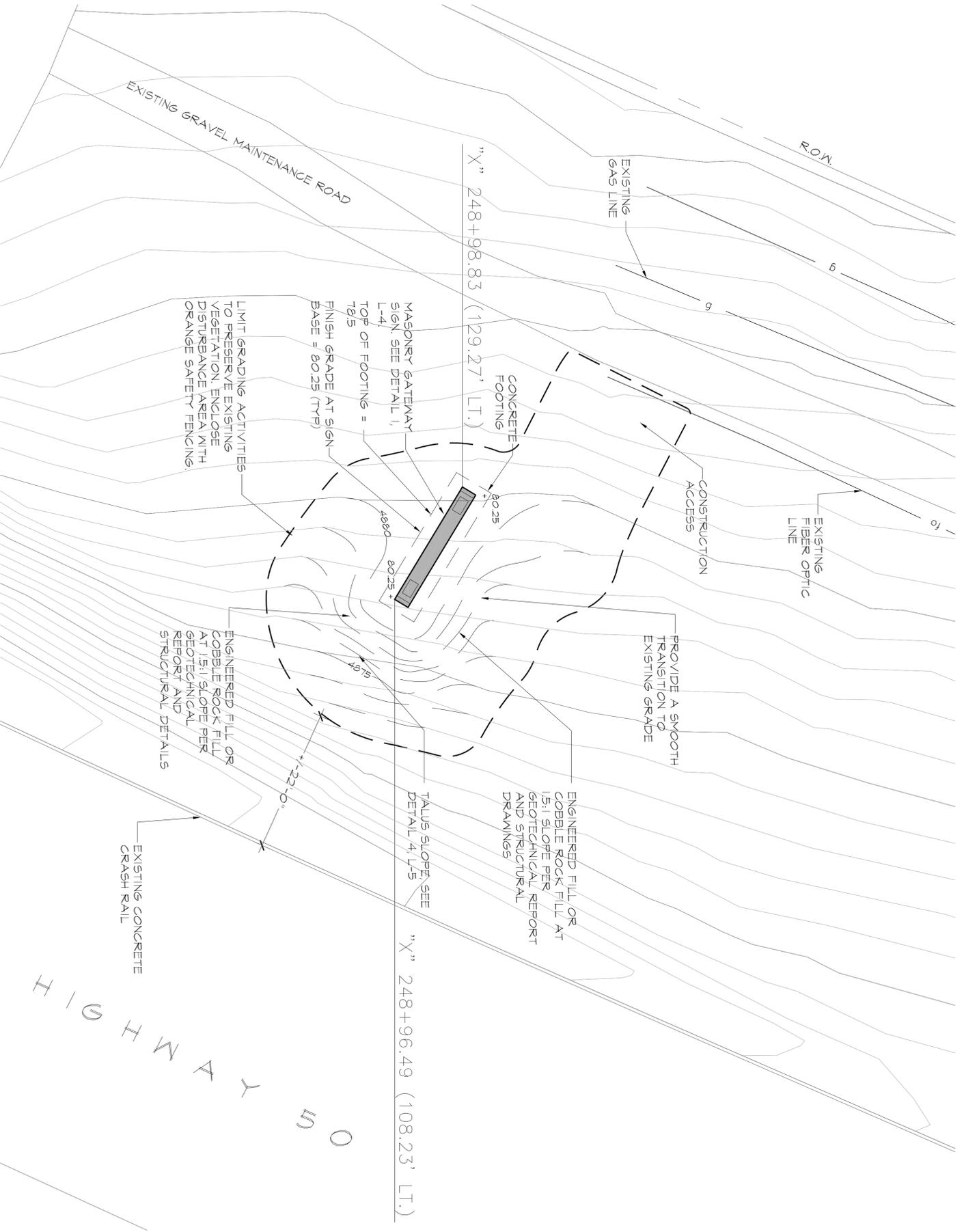
DATE: 09-03-11

DRAWN BY: RLR

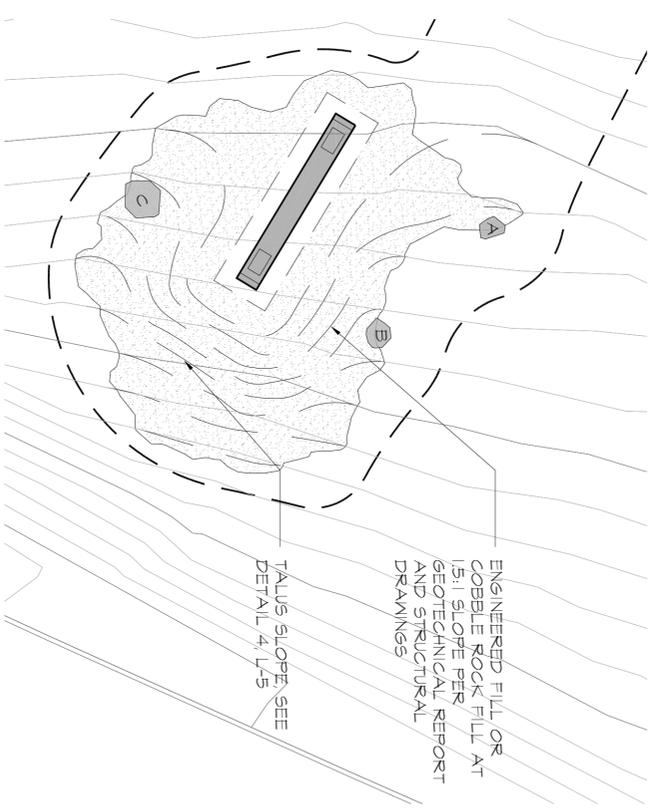
CHECKED BY: PMK

SHEET NUMBER:  
**L-2**

50 EAST SIGN,  
 TMP. 15 N  
 RANGE 20 E  
 SECTION 1



- NOTES:
- EXISTING VEGETATIVE COVER WITHIN THE APPROVED CONSTRUCTION AREA SHALL BE RESTORED PER SPECIFICATIONS.
  - EXISTING TOPSOIL SHALL BE STOCKPILED WITHIN CONSTRUCTION LIMIT AREA AND REUSED FOR FINAL GRADING AND BACKFILL.
  - EXISTING BOULDERS SHALL BE REMOVED FOR GRADING PURPOSES AND THEN RESET IN THE TALUS SLOPE AREA WITHIN THE BOUNDARY SHOWN IN PLAN PER DIRECTION OF THE CONSTRUCTION MANAGER.



SEE SHEET L-5 FOR TALUS SLOPE TREATMENT DETAILS

PLAN  
**2 TALUS SLOPE TREATMENT PLAN**  
 L-1 SCALE: 1" = 10'-0"

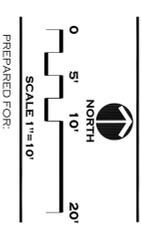
PLAN  
**GRADING AND LAYOUT PLAN**  
 SCALE: 1" = 10'-0"

ISSUE RECORD / REVISION:  
 PURPOSE: DATE:  
 60% SUBMITTAL 08-13-10  
 100% SUBMITTAL 03-03-11  
 FINAL BID SET 07-01-11

WINSTON 4696 Broadway  
 Boulder, CO 80304  
 TEL: 303-440-9200  
 FAX: 303-449-6911  
 WINSTON@WINSTONASSOCIATES.COM  
 ASSOCIATES



# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



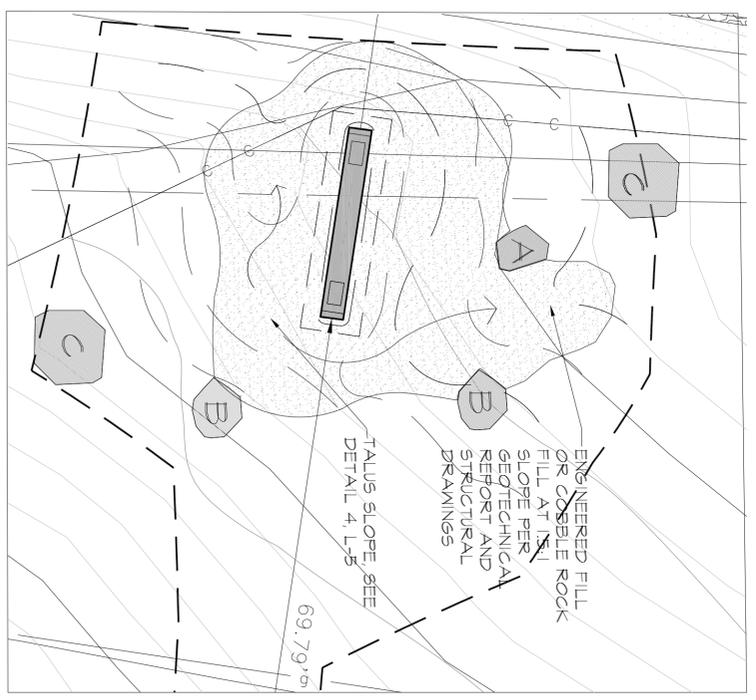
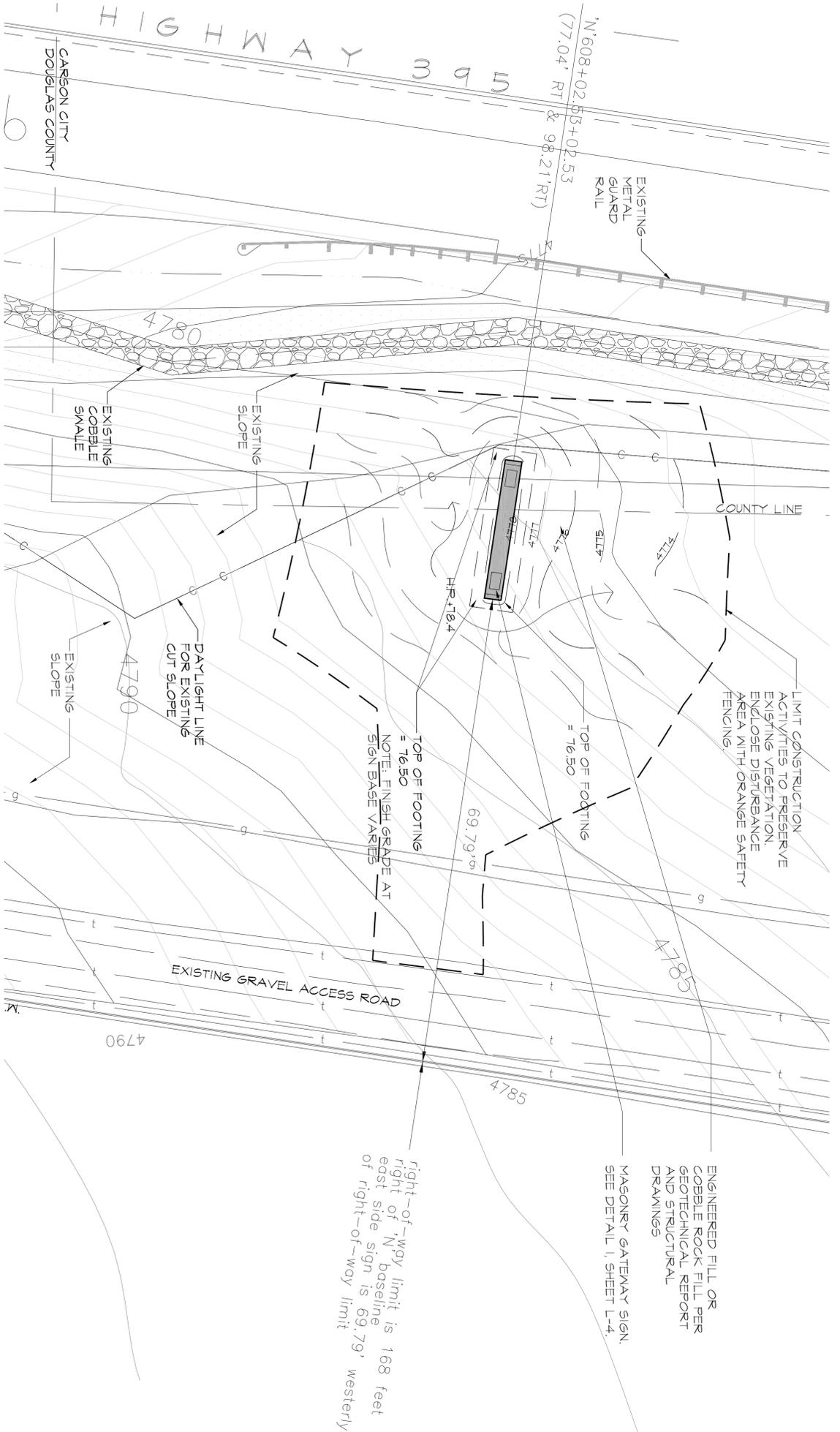
SHEET NAME:  
**SOUTH GATEWAY  
 GRADING & LAYOUT  
 PLAN**  
 DATE: 09-03-11  
 DRAWN BY: BLR  
 CHECKED BY: PMK

SHEET NUMBER:  
**L-3**

345 SOUTH SIGN:  
 TWP. 14N  
 RANGE 20 E  
 SECTION 6

NOTES:  
 1. EXISTING VEGETATIVE COVER WITHIN THE APPROVED CONSTRUCTION AREA SHALL BE RESTORED PER SPECIFICATIONS.  
 2. EXISTING TOPSOIL SHALL BE STOCKPILED WITHIN CONSTRUCTION LIMIT AREA AND REUSED FOR FINAL GRADING AND BACKFILL.  
 3. EXISTING BOULDERS SHALL BE REMOVED FOR GRADING PURPOSES AND THEN RESET IN THE TALUS SLOPE AREA WITHIN THE BOUNDARY SHOWN IN PLAN PER DIRECTION OF THE CONSTRUCTION MANAGER.

ENGINEERED FILL OR COBBLE ROCK FILL PER GEOTECHNICAL REPORT AND STRUCTURAL DRAWINGS  
 MASONRY GATEWAY SIGN SEE DETAIL 1, SHEET L-4.  
 right-of-way limit is 168 feet east side sign is 69.79' westerly of right-of-way limit



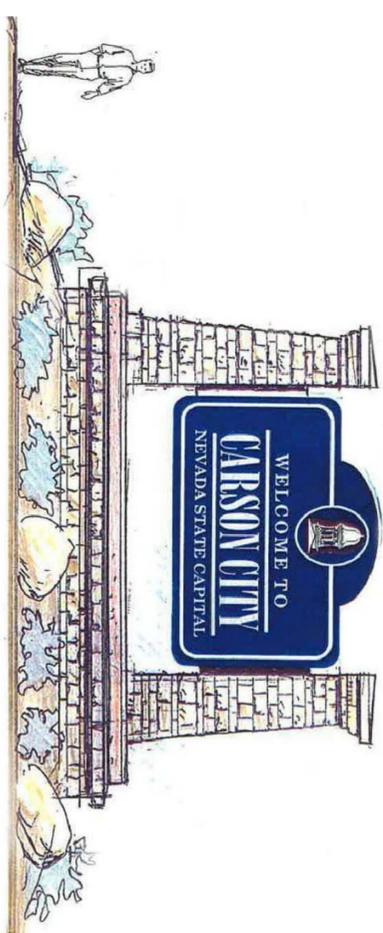
PLAN  
**GRADING AND LAYOUT PLAN**  
 SCALE: 1" = 10'-0"

1  
 L-1  
**TALUS SLOPE TREATMENT PLAN**  
 SCALE: 1" = 10'-0"

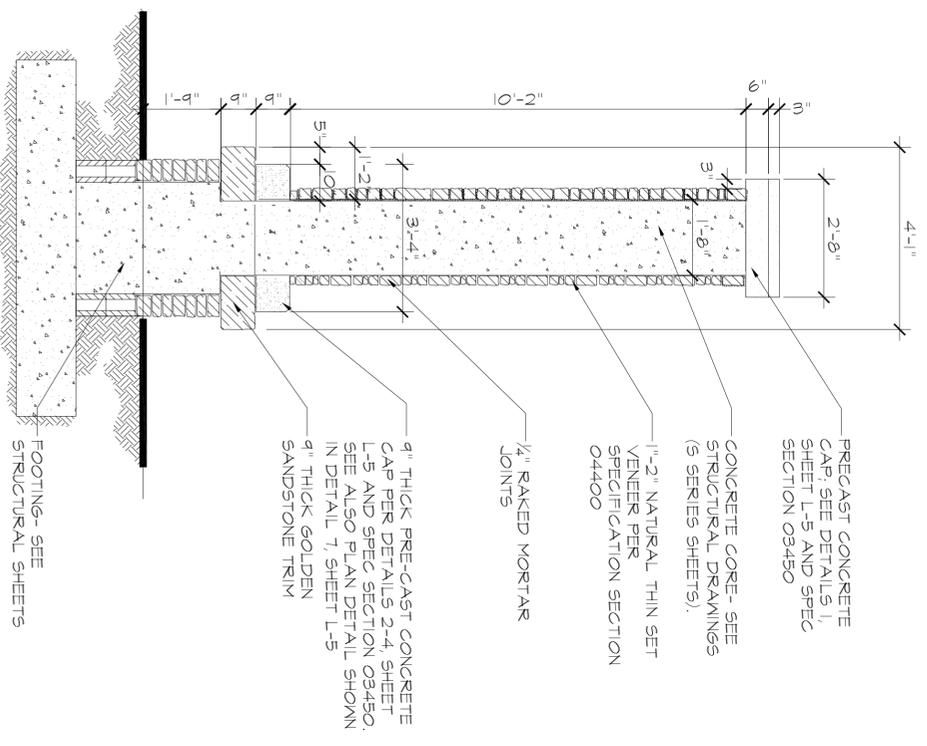
SEE SHEET L-5 FOR TALUS SLOPE TREATMENT DETAILS

GATEWAY SIGN SIGN FACE

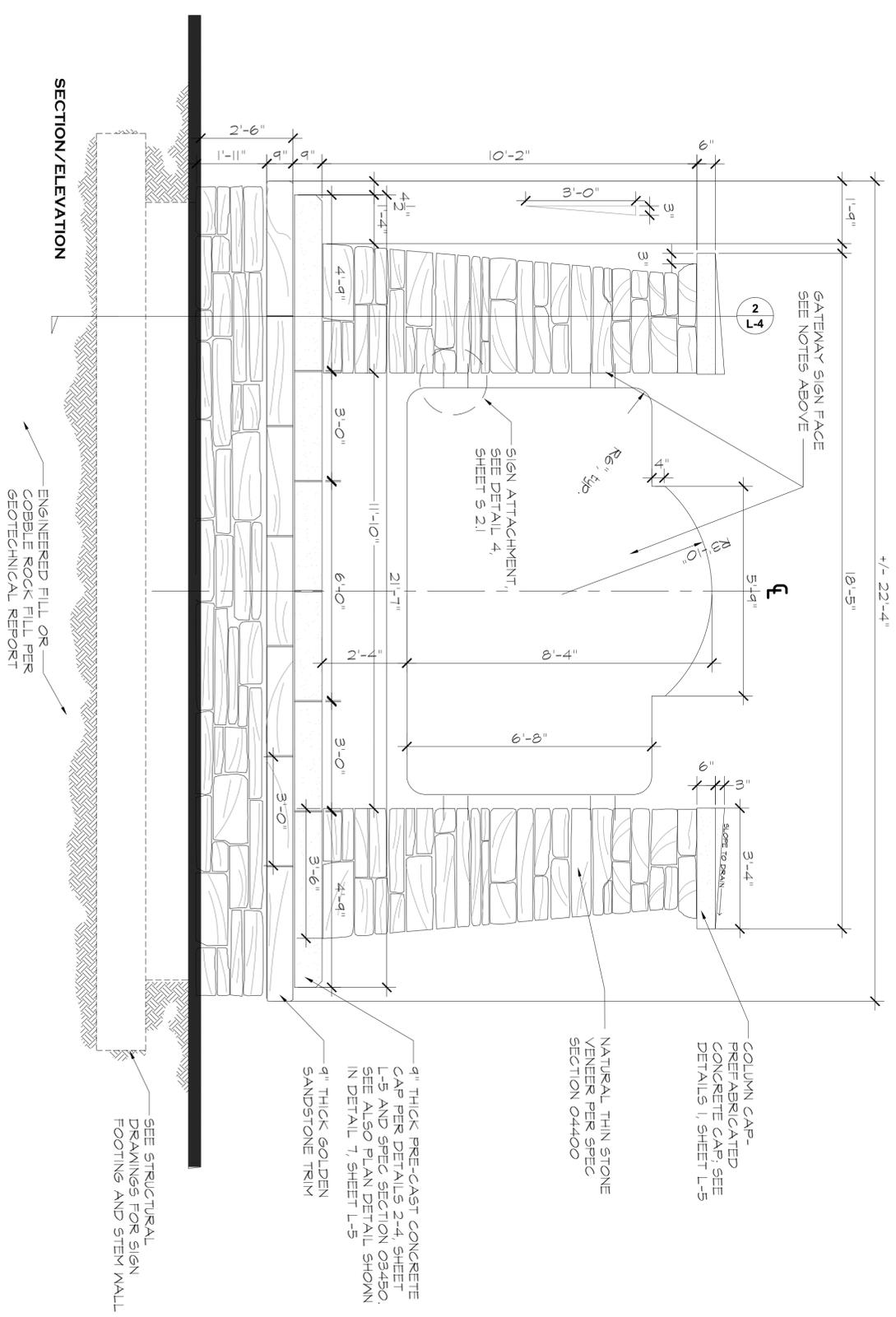
1. The Gateway Sign will be two-sided. The sign's front face that is orientated to cars arriving in Carson City shall be as shown in the Concept Sketch shown in the Drawings and Details. The rear face background shall match the front face. The sign shall read "Thank You for Visiting Carson City". The rear sign face lettering color, size, and font shall be consistent with the text shown on the Concept Sketch.
2. Sign faces for Gateway Signs are to be provided on a design-build basis. Prior to securing materials and beginning fabrication sign fabricators are to provide engineered shop drawings which have been stamped by an engineer who is licensed in Nevada for approval by the Carson City Project Manager. Sign faces shall be fabricated so they can be attached to the sign structure as detailed on the Drawings.
3. The sign face and supporting structure shall be constructed to withstand adopted wind and seismic requirements for the locations within the Carson City where the signs are located.
4. All sign face finishes, lettering, and images shall be commercial grade materials that are UV-stable and suitable for the proposed application.
5. A concept sketch for the sign face will be provided by the Carson City Project Manager. Final art is to be produced by the Sign Fabricator and a shop drawing submitted to the Carson City Project Manager for approval prior to beginning fabrication.
6. The sign faces are to be warranted for a period of 5 years. The warranty shall cover, but may not be limited to warping, fading, peeling, or structural failures.



3 CONCEPT SKETCH  
L4 SCALE: 1/2" = 1'-0"



2 SECTION  
L4 SCALE: 1/2" = 1'-0"



1 FRONT ELEVATION  
L4 SCALE: 1/2" = 1'-0"

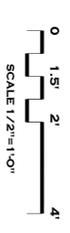


**WINSTON ASSOCIATES**  
4696 Broadway  
Reno, NV 89502  
TEL: 303-440-5200  
FAX: 303-449-6911  
WINSTONASSOCIATES.COM

ISSUE RECORD / REVISION:	
PURPOSE	DATE:
60% SUBMITTAL	08/13/10
100% SUBMITTAL	03-03-11
FINAL BID SET	07/01-11

# CARSON CITY GATEWAY SIGNAGE PROJECT

## CARSON CITY, NEVADA



SHEET NAME:  
**SIGN ELEVATION**

DATE: 03/03/11

DRAWN BY: BLR

CHECKED BY: PMK

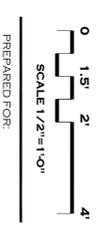
SHEET NUMBER:  
**L-4**

PURPOSE	DATE
60% SUBMITTAL	08/13/10
100% SUBMITTAL	03-03-11
FINAL BID SET	07/01-11

**WINSTON ASSOCIATES**  
 4696 Broadway  
 Boulder, CO 80304  
 Tel. 303-440-9200  
 Fax. 303-449-6911  
 winstonassociates.com



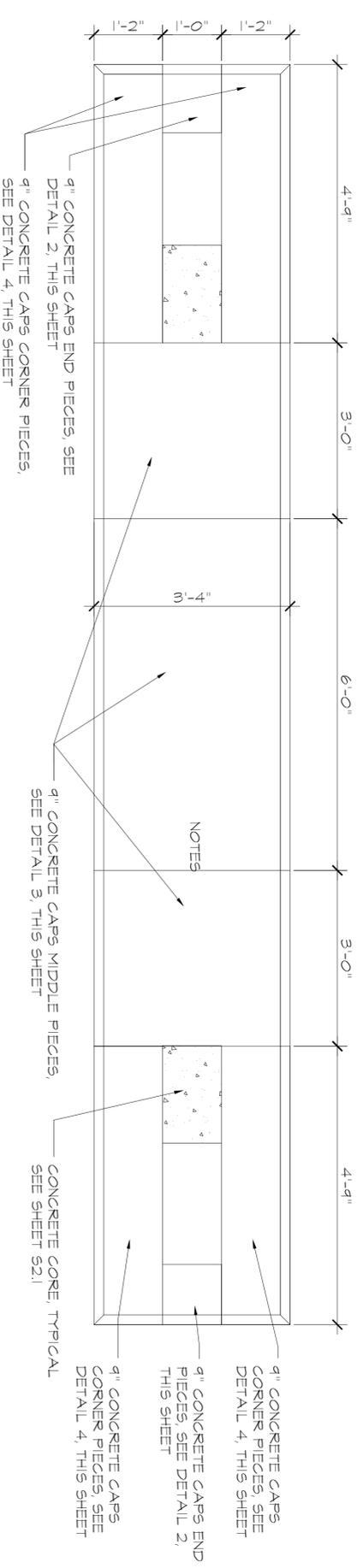
# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



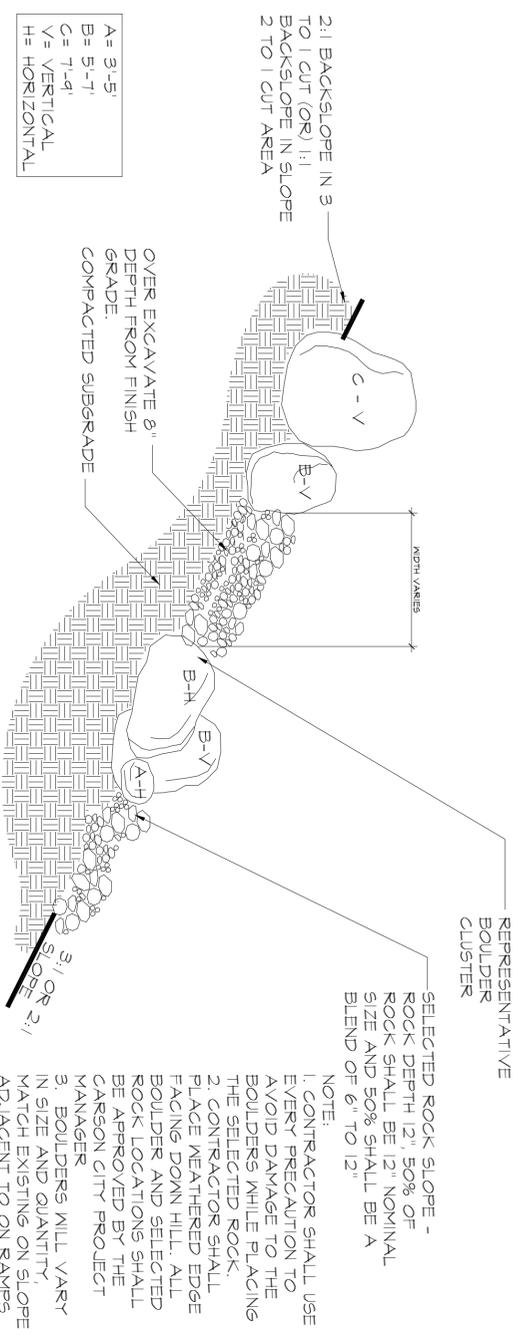
SHEET NAME:  
**SIGN DETAILS  
 AND TALUS  
 SLOPE DETAILS**

DATE: 09/03/11  
 DRAWN BY: RLR  
 CHECKED BY: PMK

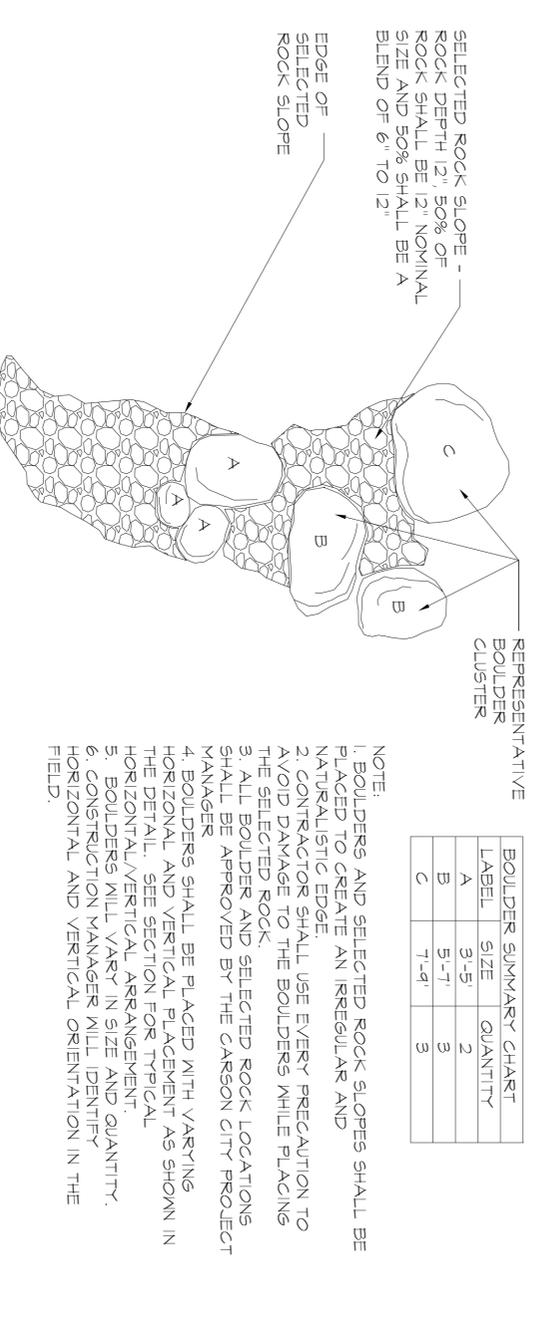
SHEET NUMBER:  
**L-5**



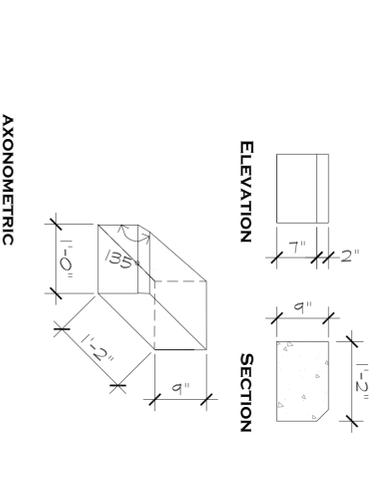
**7**  
 L-5 SCALE: 3/4" = 1'-0"



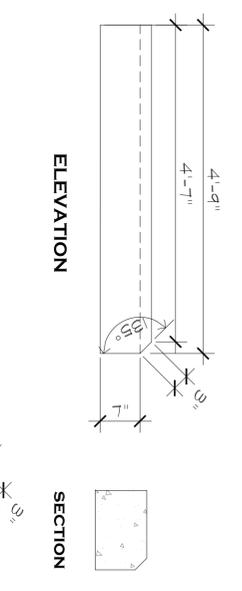
**5**  
 L-5 SCALE: 1/4" = 1'-0"



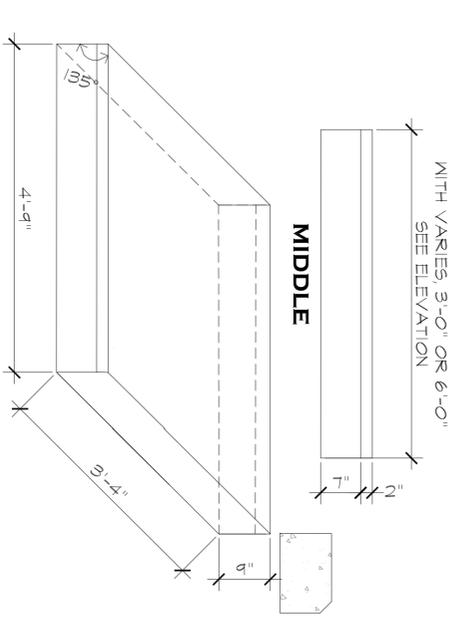
**4**  
 L-5 SCALE: 1/4" = 1'-0"



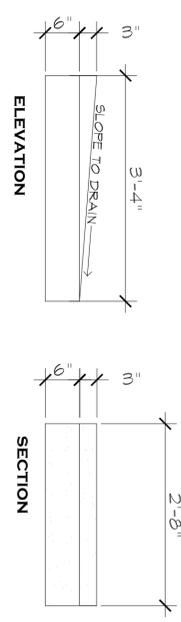
**2**  
 L-5 SCALE: 3/4" = 1'-0"



**4**  
 L-5 SCALE: 3/4" = 1'-0"



**3**  
 L-5 SCALE: 3/4" = 1'-0"



**1**  
 L-5 SCALE: 3/4" = 1'-0"

**WINSTON ASSOCIATES**  
 4696 Broadway  
 Boulder, CO 80304  
 TEL: 303-440-5200  
 FAX: 303-449-6931  
 WINSTONASSOCIATES.COM

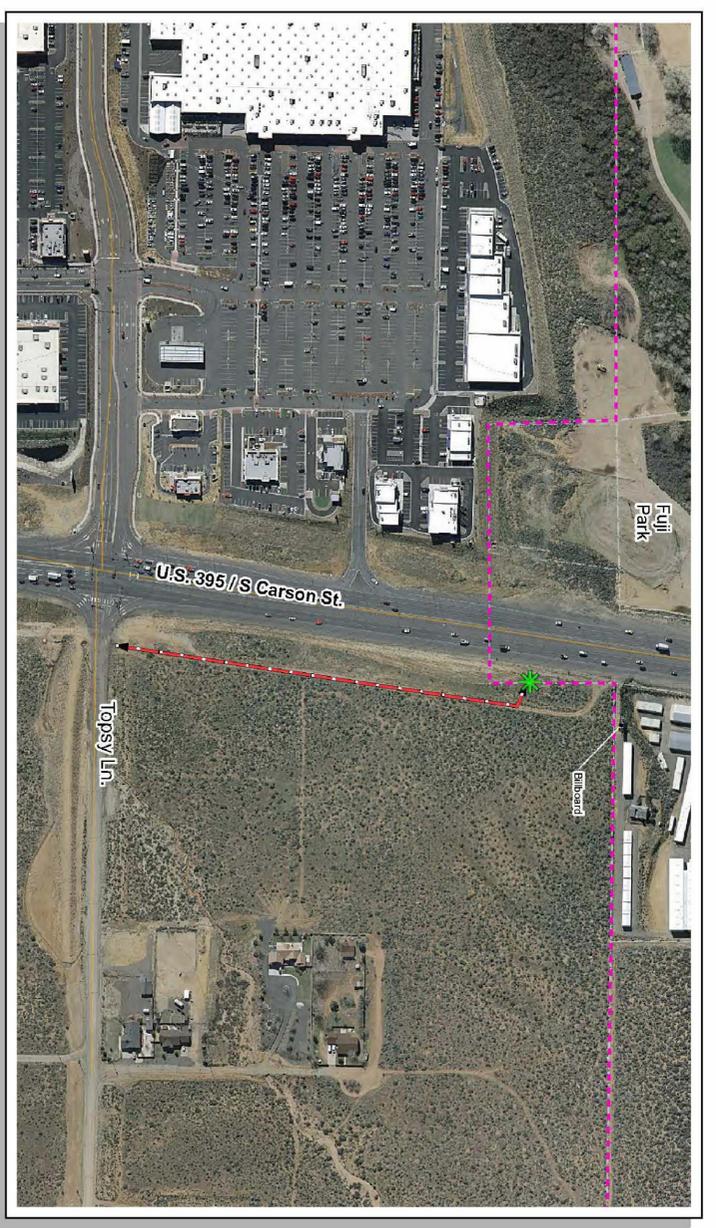
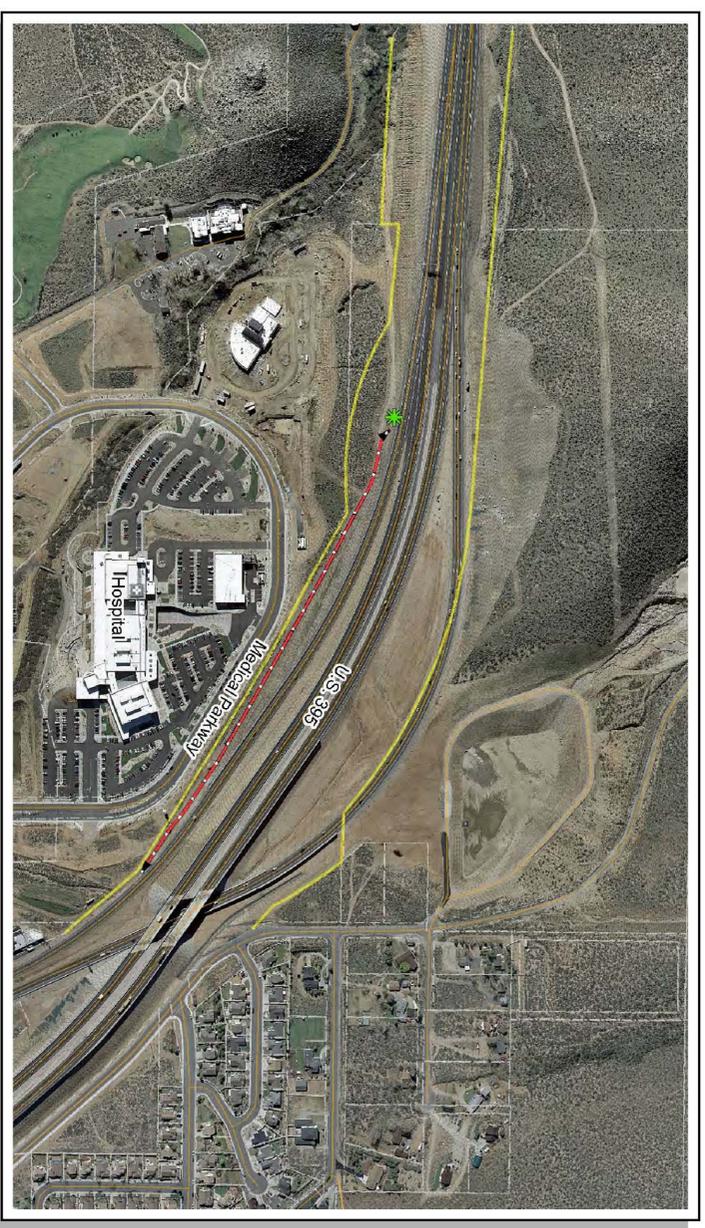
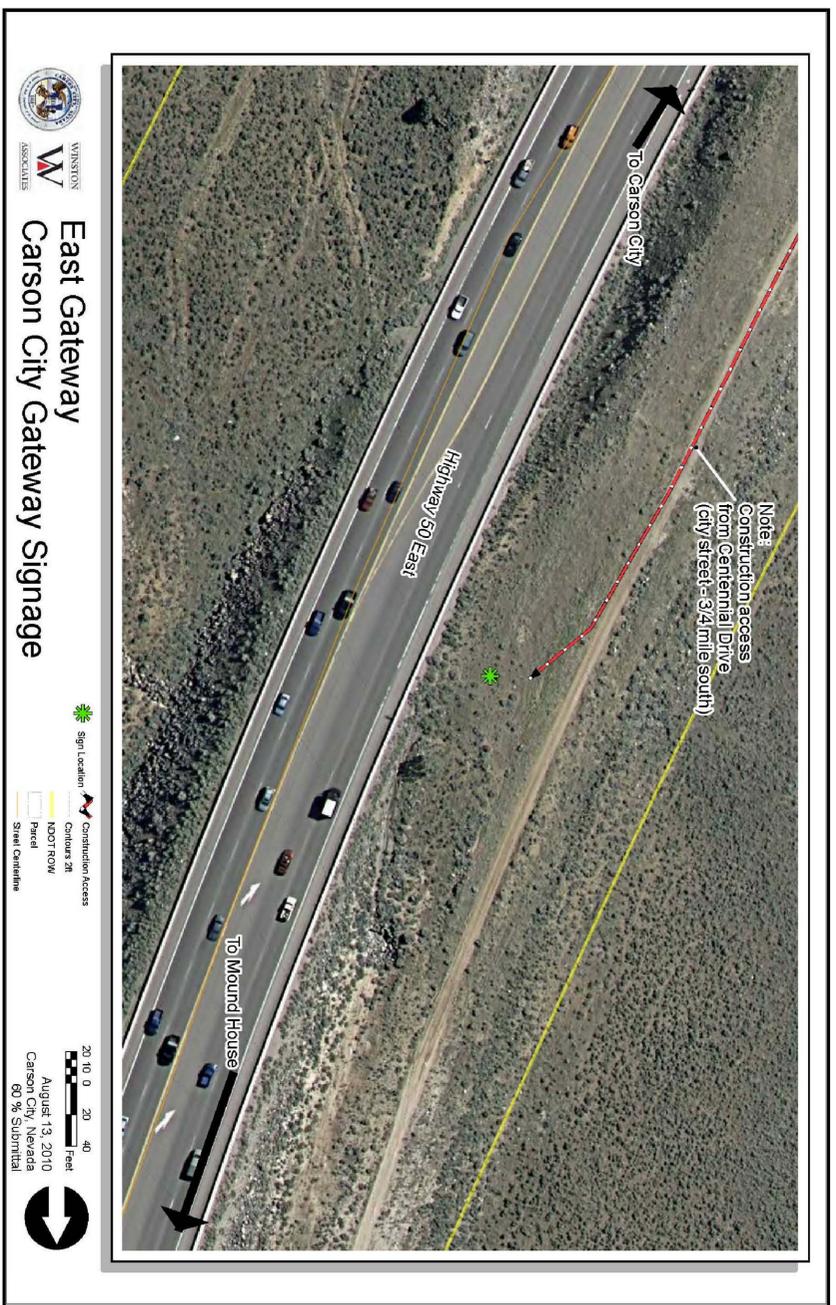


# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA

0 1.5' 2' 4'  
 SCALE 1/2"=1'-0"  
 PREPARED FOR:

SHEET NAME:  
**CONSTRUCTION  
 ACCESS  
 DIAGRAMS**  
 DATE: 03-03-11  
 DRAWN BY: BLR  
 CHECKED BY: PMK

SHEET NUMBER:  
**L-6**



## South Gateway Carson City Gateway Signage

City/County Line  
 Construction Access  
 Contours 2ft  
 Parcel  
 Street Centerline

100 50 0 100 200 Feet  
 August 13, 2010  
 Carson City, Nevada  
 80 % Submittal



## East Gateway Carson City Gateway Signage

Sign Location  
 Construction Access  
 Contours 2ft  
 NDOT ROW  
 Parcel  
 Street Centerline

20 10 0 20 40 Feet  
 August 13, 2010  
 Carson City, Nevada  
 80 % Submittal



## North Gateway Carson City Gateway Signage

Sign Location  
 Construction Access  
 Contours 2ft  
 NDOT ROW  
 Parcel  
 Street Centerline

200 100 0 200 400 Feet  
 August 13, 2010  
 Carson City, Nevada  
 80 % Submittal



## South Gateway Carson City Gateway Signage

City/County Line  
 Construction Access  
 Contours 2ft  
 Parcel  
 Street Centerline

100 50 0 100 200 Feet  
 August 13, 2010  
 Carson City, Nevada  
 80 % Submittal



j:\project eadd files\2010\19-10 carson city gateway signage\cad files\19-10\_S0.1.dwg, 8/1/2011 11:05:48 AM, ANSI expand D (22.00 x 34.00 inches)

### ABBREVIATIONS

AB	ANCHOR BOLT	DS	DEFORMED SHANK	GLB	GLUE-LAM BEAM	OSB	ORIENTED STRAND BOARD
ARCH	ARCHITECTURAL	DIA	DIAMETER	HDR	HEADER	PL	PLATE
L	ANGLE	DWL	DOWEL	HORIZ(H)	HORIZONTAL	PLYWD	PLYWOOD
BLDG	BUILDING	EXIS(E)	EXISTING	HSB	HIGH STRENGTH BOLT	PSL	PARALLAM <sup>®</sup>
BLKG	BLOCKING	EXP BT	EXPANSION BOLT	INT	INTERIOR	PT	PRESSURE TREATED
BM	BEAM	EF	EACH FACE	JST	JOIST	REINF	REINFORCEMENT
BOT(B)	BOTTOM	EL	ELEVATION (DATUM)	JT	JOINT	REQ'D	REQUIRED
CB	CARRIAGE BOLT	ELEV	ELEVATION (VIEW)	KS	KING STUD	SHG	SHEATHING
CTR	CENTER	EN	EDGE NAILING	LVL	LVL MICROLAM <sup>™</sup>	STD	STANDARD
CJ	CONSTRUCTION JOINT	ES	EACH SIDE	MAX	MAXIMUM	STIFF	STIFFENER
CU	CONTROL JOINT	EA	EACH	MB	MACHINE BOLTS	ST	STEEL
CMU	CONCRETE MASONRY UNIT	EW	EACH WAY	MIN	MINIMUM	SYM	SYMMETRICAL
CTSK	COUNTERSINK	EXT	EXTERIOR	MAS	MASONRY	T&B	TOP & BOTTOM
CLR	CLEAR	FIN	FINISH	MFR	MANUFACTURER	T.O.P.	TOP OF PLYWOOD
CONT	CONTINUOUS	FLR	FLOOR	MO	MASONRY OPENING	T.O.S.	TOP OF STEEL
COL	COLUMN	FOUND	FOUNDATION	MECH	MECHANICAL	TYP	TYPICAL
CONC	CONCRETE	FOS	FACE OF STUD	NS	NEAR SIDE	VERT(V)	VERTICAL
CONN	CONNECTION	FS	FAR SIDE	NTS	NOT TO SCALE	UNO	UNLESS NOTED OTHERWISE
CONSTR	CONSTRUCTION	FTG	FOOTING	OC	ON CENTER	WFW	WELDED WIRE FABRIC
CS	CRIPPLE STUD	GALV	GALVANIZED	OPNG	OPENING	W/	WITH

### BASIS OF DESIGN

#### CODE REFERENCE - 2006 IBC OCCUPANCY CATEGORY I

LIVE LOADS	
Floor Live Load	100 psf
Ground Snow Load	30 psf
Roof Snow Loads, S	21 psf
Is	1.00

SEISMIC LOADS	
Site Class	D
Ie	1.00
Seismic Design Category	D
Analysis Procedure Used	Equivalent Lateral Force Procedure
Basic Seismic Force Resisting System(s)	Special Reinforced Concrete Shear Walls (R=5.0)
Seismic Base Shear, V = CsW	

WIND LOADS	
Basic Wind Speed, v3s	100 mph
Exposure	C
Iw	1.00

SOILS	
Allowable Soil Bearing	2,000psi
Geotechnical Report	By Geocan Consultants

### PROJECT TITLE

#### STRUCTURAL DRAWINGS FOR

## CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA

### INDEX TO DRAWINGS

S0.1	STRUCTURAL COVER SHEET/GENERAL NOTES
S1.1	ENGINEERED FILL DETAIL- NORTH
S1.2	ENGINEERED FILL DETAIL- EAST
S1.3	ENGINEERED FILL DETAIL- SOUTH
S2.1	SIGN PLAN AND SECTIONS

ISSUE RECORD / REVISION:

PURPOSE	DATE:
100% SUBMITTAL	11-30-10
BID SET	8-1-11

**WINSTON ASSOCIATES** 4696 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-449-6911  
winstonassociates.com



#### THE FOLLOWING NOTES SHALL APPLY TO ALL SHEETS:

- IT SHALL BE THE CONTRACTORS DIRECT RESPONSIBILITY TO COMPLY WITH TYPICAL DETAILS AND GENERAL NOTES AS DELINEATED OR REFERRED ON THE TYPICAL DETAIL DRAWINGS OF THESE CONTRACT DOCUMENTS REGARDLESS OF SPECIFIC FLAGGING OR REFERENCE TO APPLICABLE NOTE OR DETAIL.
- DO NOT SCALE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SCALE ACCURATELY. ANY DIMENSIONAL OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
- CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.

### GENERAL NOTES

#### I. GENERAL

- THE FOLLOWING GENERAL NOTES APPLY TO ALL STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE.
- ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF ASTM OR OTHER INDUSTRY STANDARDS REFERENCED.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED; THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PREPARING AND FOLLOWING A WRITTEN SAFETY PROGRAM FOR THE CONSTRUCTION PROJECT, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, AND ALL RETAINING WALLS. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND RETAIN HIS OWN ENGINEER WHERE REQUIRED.
- IN THE EVENT THAT CERTAIN FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ARCHITECT.
- IN THE EVENT THAT CERTAIN EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN ON THE PLANS AND DETAILS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED SO THAT THE PROPER REVISIONS CAN BE MADE IF NECESSARY.
- NO CHANGES OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- WHERE SHOP DRAWINGS ARE REQUIRED, THEY SHALL BE COMPLETE AND COORDINATED BY THE CONTRACTOR. REPRODUCTIONS OF CONTRACT DRAWINGS WILL NOT BE ACCEPTABLE.

#### II. FOUNDATIONS

- LOCATION OF TEST HOLES AND LOGS THEREOF ARE SHOWN IN THE SOIL REPORT. A COPY OF WHICH IS ON FILE IN THE ARCHITECT'S OFFICE. THE SOILS REPORT IS PROVIDED FOR REFERENCE ONLY AND IS NOT A PART OF THE CONTRACT DOCUMENTS.
- THE SOILS ENGINEER SHALL REVIEW ALL SITE WORK AND FOOTING EXCAVATIONS BEFORE ANY CONCRETE IS CAST AND SUBMIT A LETTER OF COMPLIANCE TO THE ARCHITECT INDICATING THAT ALL WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE SOILS ENGINEER SHALL REVIEW ALL BACKFILL MATERIALS PRIOR TO PLACEMENT. OBSERVE BACKFILL OPERATIONS AND SUBMIT A LETTER OF COMPLIANCE TO THE ARCHITECT INDICATING THAT ALL WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- NATIVE MATERIALS, FILL AND BACKFILL SHALL BE REASONABLY WELL GRADED, FREE OF ORGANICS, WITH 100% PASSING THE 4" SIEVE, 80% TO 100% PASSING THE 3/4" SIEVE, 30% TO 90% PASSING THE #4 SIEVE AND 5% TO 15% PASSING THE #200 SIEVE. THE LIQUID LIMIT SHALL NOT EXCEED 35 AND THE PLASTIC INDEX SHALL NOT EXCEED 15.
- STRIP SITE AS REQUIRED FOR IMPROVEMENTS. CLEAR ALL EXISTING STRUCTURES, DEBRIS, PAVING AND ORGANICS. THE CONTRACTOR SHALL TAKE CARE TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION AND AVOID OR RE-LOCATE UTILITIES AS REQUIRED.
- EXCAVATE AS NECESSARY TO PROPERLY CONSTRUCT IMPROVEMENTS.
- SCAFFRY, MOISTURE CONDITION, AND RE-COMPACT FOOTING SUB-GRADES TO 95% RELATIVE COMPACTION. PLACE FILL AND BACKFILL IN UNIFORM HORIZONTAL LIFTS OF 6" COMPACTED THICKNESS. MOISTURE CONDITION AND COMPACT TO 95% RELATIVE COMPACTION BELOW IMPROVEMENTS AND TO 90% RELATIVE COMPACTION OUTSIDE OF IMPROVEMENTS.
- FOOTINGS SHALL BEAR NOT LESS THAN 24" BELOW FINISHED GRADE.
- FOOTINGS MAY BE POURED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE AND WRITTEN APPROVAL IS GIVEN BY THE ARCHITECT.
- ALL FOOTING EXCAVATIONS SHALL BE HAND CLEANED PRIOR TO PLACING CONCRETE.
- TRENCHING AND BACKFILL FOR UTILITIES SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND WITH ALL BEST INDUSTRY PRACTICES.

#### III. CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ACI MANUAL OF CONCRETE PRACTICE.
- CONCRETE AT FOUNDATIONS OR WALLS IN CONTACT WITH SOILS SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50, AND SHALL HAVE AN ENTRAPPED AIR CONTENT OF 1% TO 3%.
- EXTERIOR CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45, AND SHALL HAVE AN ENTRAPPED AIR CONTENT OF 5% TO 7%.
- ALL CONCRETE MIXES SHALL UTILIZE TYPE II LOW ALKALI CEMENT CONFORMING TO ASTM C150. HARDBROCK AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. COURSE AGGREGATE GRADATION SHALL MEET THE REQUIREMENTS OF SIZE NO. 67 UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL NOT EXCEED 3" WHEN TESTED IN ACCORDANCE WITH ASTM C143 FOR FOOTINGS, SLABS, BEAMS AND GIRDERS OR 4" FOR CAST-IN-PLACE WALLS AND COLUMNS. SLUMP INDICATED IS WITH WATER ONLY. ADDITIONAL SLUMP IS ACCEPTABLE IF ADDED BY MEANS OF APPROVED ADDITIVES THAT DO NOT INCREASE SHRINKAGE OR ADVERSELY AFFECT THE CONCRETE.
- NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULATED WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C91). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.
- REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706. SUPPORTS AND ACCESSORIES SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.
- WELDED WIRE FABRIC (WFW) WITH PLAIN REINFORCING WIRE SHALL CONFORM TO ASTM A185. STRUCTURAL WELDED WIRE REINFORCING (SWWR) WITH DEFORMED REINFORCING WIRE SHALL CONFORM TO ASTM A497. WFW AND SWWR SHALL HAVE WIRE SIZE AND SPACINGS AS INDICATED ON PLANS AND DETAILS. LAP SHEETS IN ACCORDANCE WITH ACI AND CRSI RECOMMENDATIONS.
- CERTIFICATES FOR CONCRETE MASONRY UNITS AND MIX DESIGNS FOR MORTAR AND GROUT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY MASONRY. SHOP DRAWINGS INCLUDING ELEVATIONS OF EACH WALL WITH REBAR, ALL DIMENSIONED OPENINGS AND THEIR LOCATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION. OPENINGS SHALL INCLUDE BUT NOT BE LIMITED TO MECHANICAL AND PLUMBING LOCATIONS.
- STRUCTURAL STEEL
- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. W SHAPES SHALL CONFORM TO ASTM A992. PIPE SHALL CONFORM TO ASTM A53, GRADE B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B
- ANCHOR BOLTS (AB) SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. MACHINE BOLTS (MB) SHALL CONFORM TO ASTM A307.
- HEADED STUDS SHALL BE NELSON STUD ANCHORS (NSA) BY TRW OR APPROVED EQUAL, AND SHALL BE INSTALLED PER MANUFACTURERS REQUIREMENTS.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S SPECIFICATIONS FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED ONLY BY AWS CERTIFIED WELDERS.
- ALL STRUCTURAL STEEL WORK SHALL BE SHOP PAINTED AND TOUCHED UP IN THE FIELD AFTER ERECTION EXCEPT WHERE STEEL IS TO BE EMBEDDED IN CONCRETE, OR WHERE REQUIRED FOR SPECIAL CONNECTIONS. PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL EXPOSED TO EARTH.
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.
- CONCRETE MIX DESIGNS IN ACCORDANCE WITH ASTM C94 SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. SHOP DRAWINGS OF REINFORCING STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.

#### IV. MASONRY

- ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530.1. MINIMUM DESIGN STRENGTH  $F_m = 1500$  PSI.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. GROUT SHALL BE COARSE GROUT IN WALLS 8" AND LARGER AND FINE GROUT IN 6" WALLS OR WHERE CONDITIONS WARRANT.
- MORTAR SHALL CONFORM TO IBC TABLE 2103.8(1) OR ASTM C270, TYPE M WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. MORTAR COLOR SHALL BE AS DIRECTED AND APPROVED BY THE ARCHITECT.
- GROUT SHALL CONFORM TO IBC TABLE 2103.12 OR ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. GROUT SHALL BE COARSE GROUT IN WALLS 8" AND LARGER AND FINE GROUT IN 6" WALLS OR WHERE CONDITIONS WARRANT.
- REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706. ALL REINFORCING BARS SHALL BE ACCURATELY POSITIONED AND HELD SECURELY IN PLACE PRIOR TO GROUTING. BARS SHALL BE LAPPED A MINIMUM OF 48 DIAMETERS. BARS LOCATED EACH FACE OF MASONRY WALLS SHALL BE LAPPED A MINIMUM OF 64 BAR DIAMETERS.
- HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE DETAILED AND POSITIONED AS SHOWN ON THE DRAWINGS.
- LAY BLOCK IN RUNNING BOND IN 3/8" FULL SHOVED HEAD AND BED JOINTS AND TOOL ALL JOINTS AS WEATHERED JOINTS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL MASONRY TYPES, DIMENSIONS AND LAYUP PATTERNS PRIOR TO CONSTRUCTION.
- ALL CELLS SHALL BE GROUTED SOLID IN 8"-0" MAXIMUM LIFTS. SPLICES OF REINFORCEMENT SHALL BE LOCATED SUCH THAT THE FULL SPLICE LENGTH IS WITHIN A LIFT AND IS OBSERVABLE AND VERIFIABLE PRIOR TO POURING GROUT. CUT CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF EACH LIFT FOR CLEANING AND INSPECTION. AT THE CONTRACTOR'S OPTION, LIFTS MAY BE REDUCED TO 5'-0" MAXIMUM WITH CLEANOUTS OMITTED. ALL GROUT SHALL BE VIBRATED AND REGRATED USING INTERNAL MECHANICAL VIBRATORS. KEY ALL GROUT POURS BY HOLDING TOP OF GROUT 1 1/2" BELOW TOP OF BLOCK.
- PROTECT MASONRY WORK AS REQUIRED BY ACI 530.1 FOR COLD WEATHER, HOT WEATHER AND MOISTURE.
- CERTIFICATES FOR CONCRETE MASONRY UNITS AND MIX DESIGNS FOR MORTAR AND GROUT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY MASONRY. SHOP DRAWINGS INCLUDING ELEVATIONS OF EACH WALL WITH REBAR, ALL DIMENSIONED OPENINGS AND THEIR LOCATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION. OPENINGS SHALL INCLUDE BUT NOT BE LIMITED TO MECHANICAL AND PLUMBING LOCATIONS.

#### VI. HOLES IN STRUCTURES

- OPENINGS, POCKETS, HOLES, CANS, ETC. SHALL NOT BE PLACED IN ANY SLAB, BEAM, COLUMN, WALL, OR OTHER STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR WRITTEN PERMISSION IS OBTAINED FROM THE ARCHITECT.
- DO NOT OVERCUT AT CORNERS WHEN CUTTING A NEW OPENING IN EXISTING CONCRETE OR MASONRY; COREDRILL, CHIP AND GRIND AS REQUIRED AT CORNERS. A LAYOUT OF ALL PROPOSED OPENINGS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO SAWCUTTING.

#### VII. POST INSTALLED ANCHORS

- EXPANSION ANCHORS IN CONCRETE OR MASONRY SHALL BE ITW RAMSEY/REDHEAD TRIBOLT "4" WEDGE ANCHORS PER IBCG REPORT ESR-2427, OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.
- EPOXY/ADHESIVE ANCHORS IN CONCRETE OR MASONRY SHALL USE SIMPSON SET EPOXY PER ICC-ES REPORT ESR-1772, OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.
- HEAVY DUTY SCREW ANCHORS IN CONCRETE OR MASONRY SHALL BE SIMPSON TITEN HD PER ICC-ES REPORT ESR-1056 AND ESR-2713, OR APPROVED EQUAL. SPECIAL INSPECTION REQUIRED.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ALL EVALUATION REPORT AND MANUFACTURER RECOMMENDATIONS AND SPECIAL INSPECTION SHALL BE PROVIDED WHERE REQUIRED.

#### VIII. SPECIAL INSPECTION AND MATERIAL TESTING

- SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PERFORMED BY AN AGENCY DESIGNATED BY THE OWNER FOR THE PROCESSES AND MATERIALS REQUIRED FOR CONSTRUCTION. THE TYPE AND FREQUENCY OF SPECIAL INSPECTIONS AND MATERIALS TESTING AS WELL AS THE FREQUENCY AND DISTRIBUTION OF RELATED REPORTS SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND AS REQUIRED BY ALL APPLICABLE CODES.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF UNCORRECTED, TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL. AT THE CONCLUSION OF WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- SPECIAL INSPECTIONS IN ACCORDANCE WITH 2006 IBC CHAPTER 17 SHALL BE REQUIRED FOR THE FOLLOWING STRUCTURAL ITEMS:
  - STEEL CONSTRUCTION IN ACCORDANCE WITH 2006 IBC TABLE 1704.3.
  - CONCRETE CONSTRUCTION IN ACCORDANCE WITH 2006 IBC TABLE 1704.4.
  - MASONRY CONSTRUCTION IN ACCORDANCE WITH 2006 IBC TABLE 1704.5.1.
  - SOILS IN ACCORDANCE WITH 2006 IBC TABLE 1704.7.
  - POST INSTALLED ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS AND MANUFACTURER RECOMMENDATIONS.
- THE SPECIAL INSPECTIONS LISTED ABOVE ARE NOT INTENDED TO BE ALL INCLUSIVE AND ONLY REPRESENT SPECIAL INSPECTIONS FOR STRUCTURAL PORTIONS OF THE WORK. ADDITIONAL SPECIAL INSPECTIONS OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS MAY BE REQUIRED. REFER TO THE APPROPRIATE DESIGN DISCIPLINES FOR ADDITIONAL INFORMATION.

PREPARED FOR:

SHEET NUMBER:  
**STRUCTURAL COVER SHEET**  
GENERAL NOTES

DATE: **8-1-11**  
DRAWN BY: **A.M.**  
CHECKED BY: **R.H.**

SHEET NUMBER:  
**S0.1**



**HYTTINEN ENGINEERING**  
5458 Longley Lane, Suite B  
Reno, Nevada 89511  
Phone (775) 826-3019  
Fax (775) 826-3076

j:\project cadd files\2010\19-10 carson city gateway signage\19-10\_S1.1.dwg, 8/1/2011 11:05:53 AM, ANSI expand D (22.00 x 34.00 inches)

ISSUE RECORD / REVISION:

PURPOSE DATE:

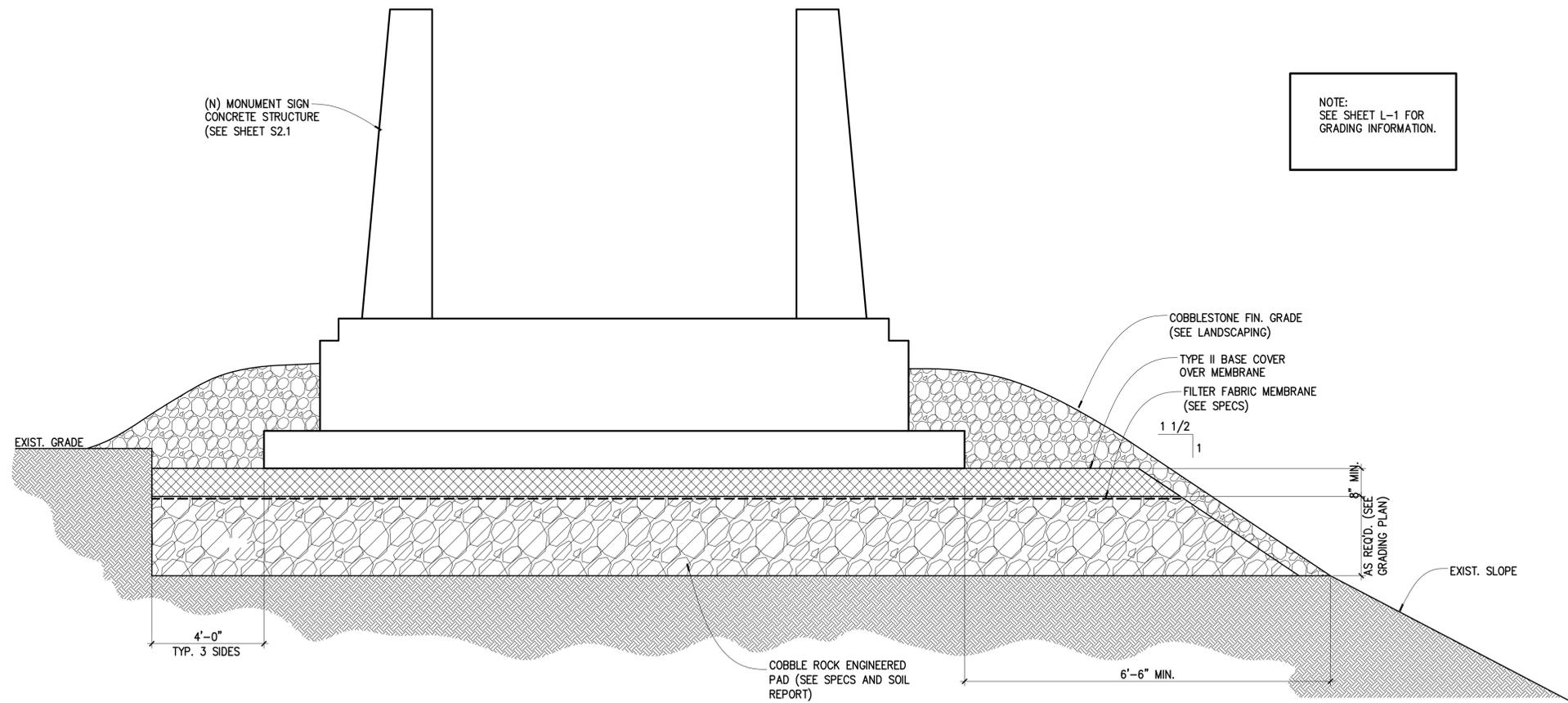
100% SUBMITTAL 11-30-10

BID SET 8-1-11

WINSTON ASSOCIATES 4696 Broadway Boulder, CO 80304 Tel: 303-440-9200 Fax: 303-449-6911 winstonassociates.com



CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA



ENGINEERED FILL DETAIL AT NORTH SIGN N.T.S.

1 S1.1

PREPARED FOR:

SHEET NAME: ENGINEERED FILL DETAIL AT NORTH SIGN

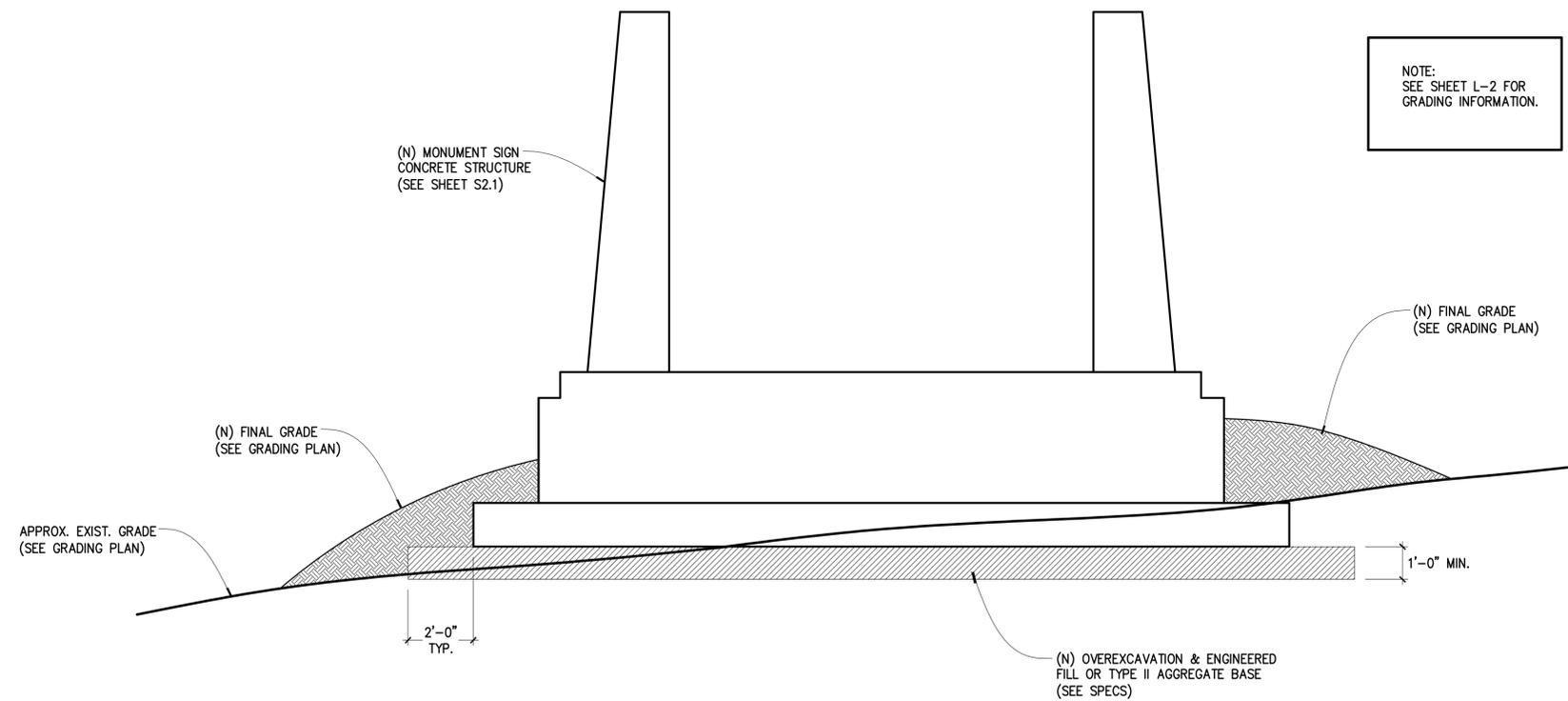
DATE: 8-1-11 DRAWN BY: A.M. CHECKED BY: R.H.



HYTTINEN ENGINEERING 5458 Longley Lane, Suite B Reno, Nevada 89511 Phone (775) 826-3019 Fax (775) 826-3076

SHEET NUMBER: S1.1

j:\project\cadd\files\2010\19-10 carson city gateway signage\cad files\19-10\_S1.2.dwg, 8/1/2011 11:05:57 AM, ANSI expand D (22.00 x 34.00 inches)



NOTE:  
SEE SHEET L-2 FOR  
GRADING INFORMATION.

**ENGINEERED FILL DETAIL AT EAST SIGN**  
N.T.S.

1  
S1.2

ISSUE RECORD / REVISION:	
PURPOSE	DATE:
100% SUBMITTAL	11-30-10
BID SET	8-1-11

**WINSTON ASSOCIATES**  
 4696 Broadway  
 Boulder, CO 80304  
 Tel: 303-440-9200  
 Fax: 303-449-6911  
 winstonassociates.com



**CARSON CITY GATEWAY  
SIGNAGE PROJECT  
CARSON CITY, NEVADA**

PREPARED FOR:

SHEET NAME:  
**ENGINEERED FILL DETAIL  
EAST SIGN**

DATE: 8-1-11  
DRAWN BY: A.M.  
CHECKED BY: R.H.

SHEET NUMBER:  
**S1.2**



**HYTTINEN ENGINEERING**  
 5458 Longley Lane, Suite B  
 Reno, Nevada 89511  
 Phone (775) 826-3019  
 Fax (775) 826-3076

j:\project\cadd\files\2010\19-10 carson city gateway signage\19-10\_S1.3.dwg, 8/1/2011 11:06:01 AM, ANSI expand D (22.00 x 34.00 inches)

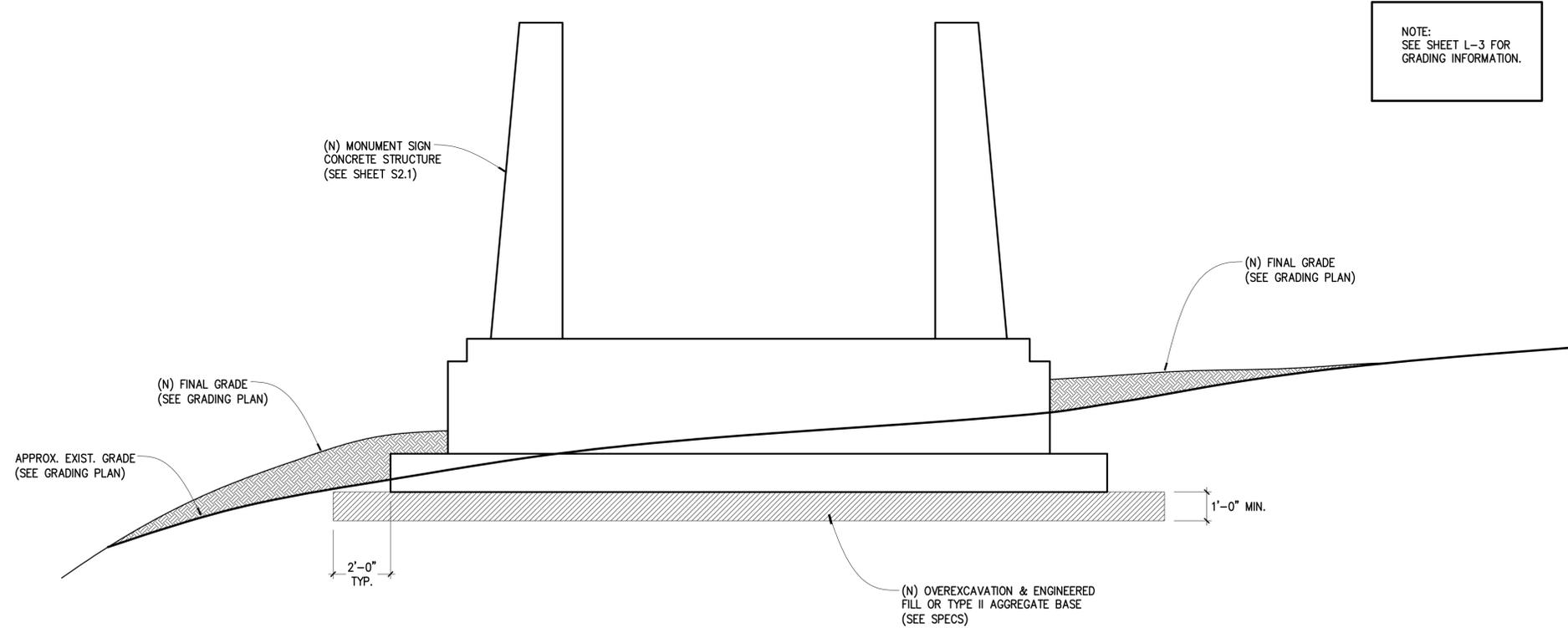
ISSUE RECORD / REVISION:

PURPOSE	DATE:
100% SUBMITTAL	11-30-10
BID SET	8-1-11

**WINSTON ASSOCIATES**  
 4696 Broadway  
 Boulder, CO 80304  
 Tel: 303-440-9200  
 Fax: 303-449-6911  
 winstonassociates.com



**CARSON CITY GATEWAY  
 SIGNAGE PROJECT  
 CARSON CITY, NEVADA**



**ENGINEERED FILL DETAIL AT SOUTH SIGN**  
 N.T.S.

1  
 S1.3

PREPARED FOR:

SHEET NAME:  
**ENGINEERED FILL DETAIL  
 AT SOUTH SIGN**

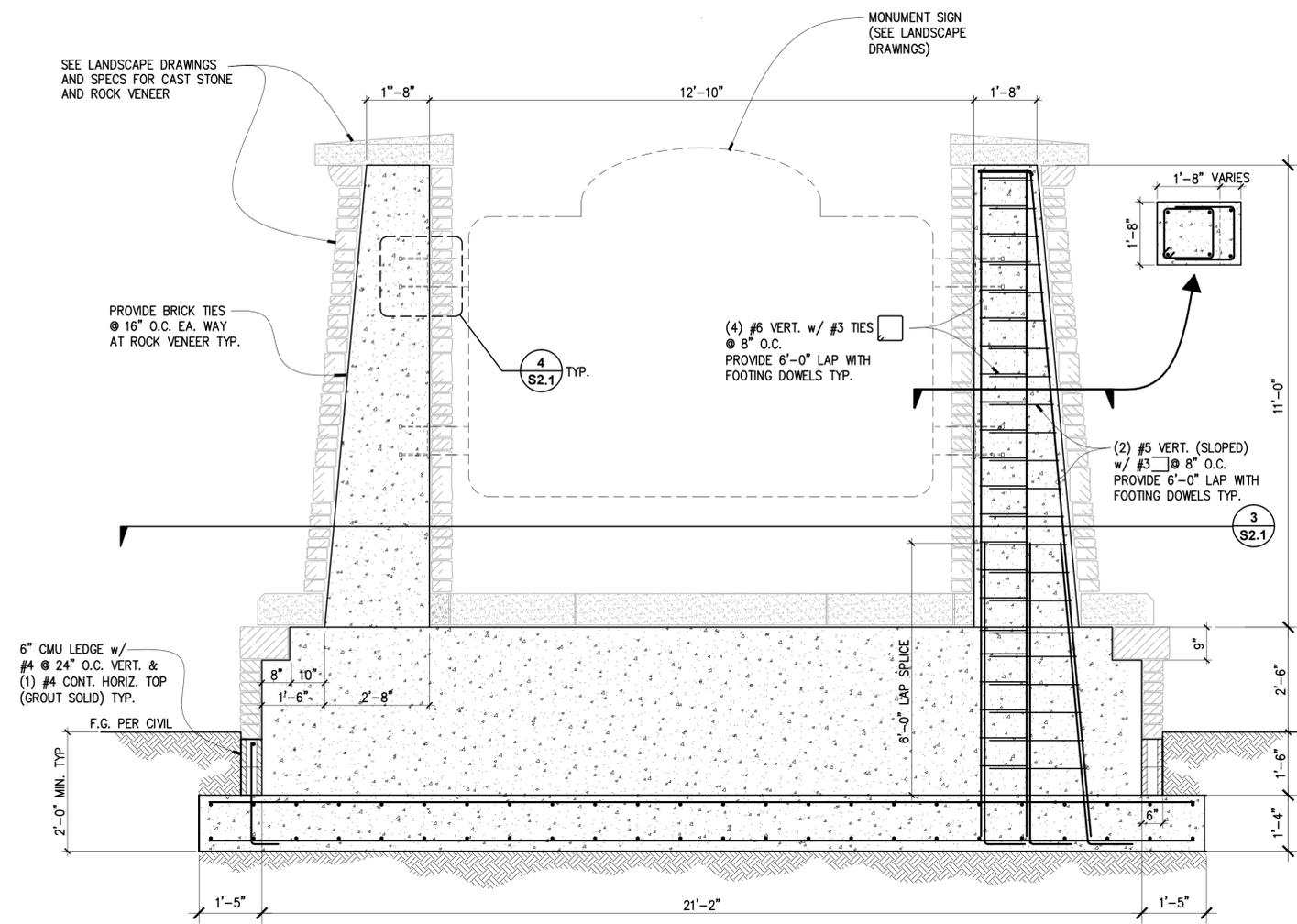
DATE: 8-1-11  
 DRAWN BY: A.M.  
 CHECKED BY: R.H.

SHEET NUMBER:  
**S1.3**

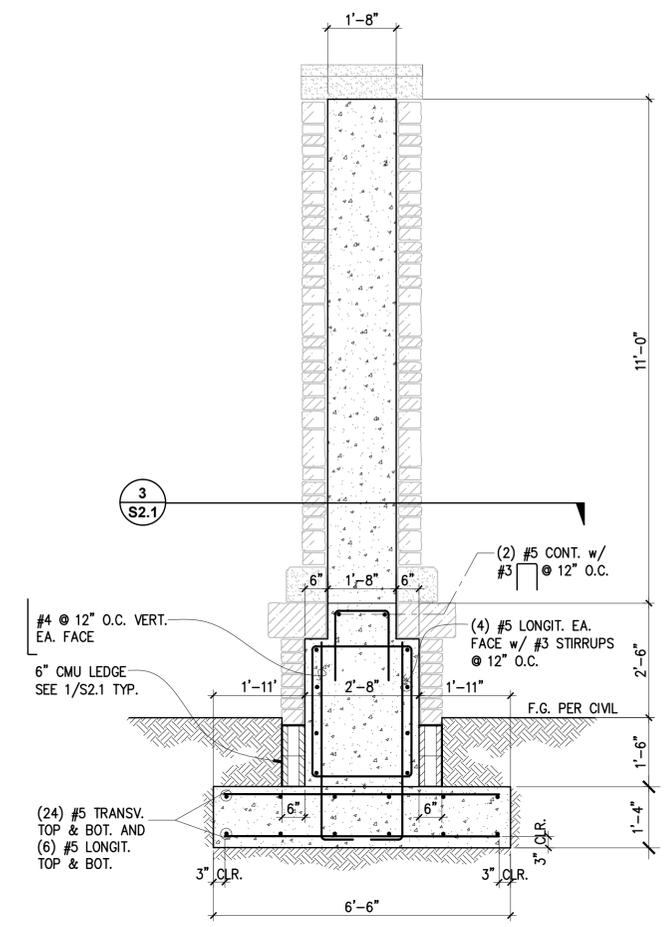


**HYTTINEN ENGINEERING**  
 5458 Longley Lane, Suite B  
 Reno, Nevada 89511  
 Phone (775) 826-3019  
 Fax (775) 826-3076

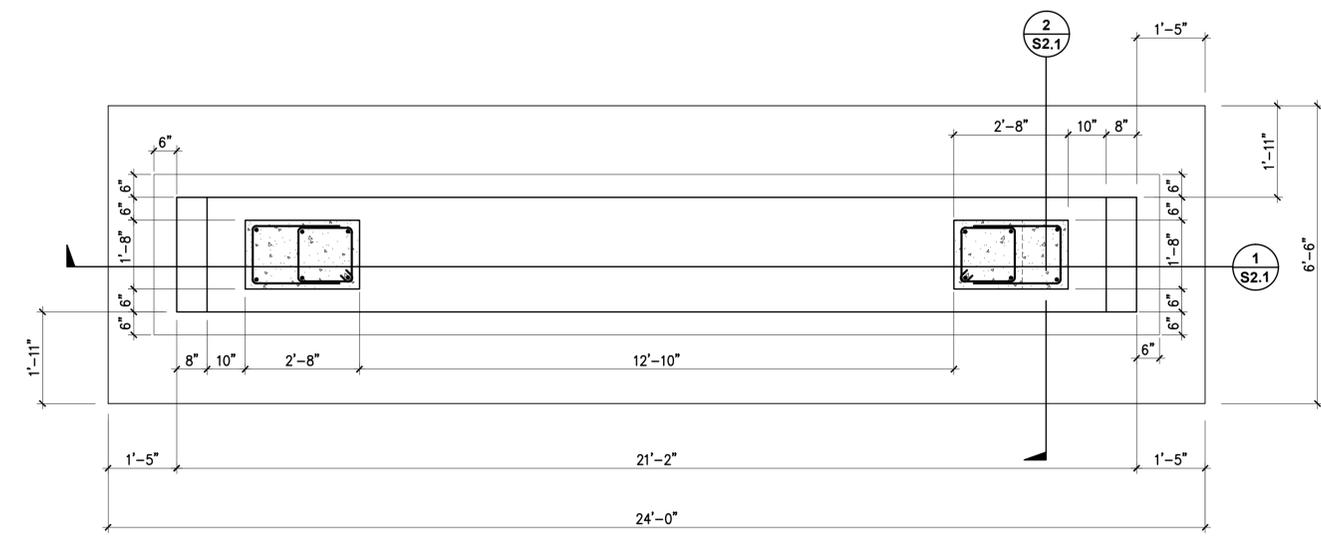
j:\project\cadd\files\2010\19-10 carson city gateway signage\cad files\19-10\_S2.1.dwg, 8/1/2011 11:06:05 AM, ANSI expand D (22.00 x 34.00 inches)



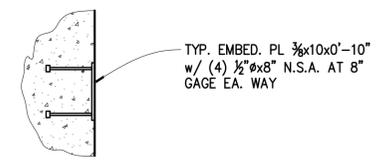
**LONGITUDINAL SECTION**  
1/2"=1'-0"  
1 S2.1



**TRANSVERSE SECTION**  
1/2"=1'-0"  
2 S2.1



**PLAN**  
1/2"=1'-0"  
3 S2.1



**TYPICAL SIGNAGE EMBED PLATE**  
N.T.S.  
4 S2.1

**NOTES:**

- SEE CIVIL DRAWINGS FOR GRADING CONDITIONS.
- SEE SHEETS S1.1, S1.2 & S1.3 FOR ENGINEERED FILL REQUIREMENTS.

ISSUE RECORD / REVISION:	
PURPOSE	DATE:
100% SUBMITTAL	11-30-10
BID SET	8-1-11

**WINSTON ASSOCIATES**  
4696 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-449-6911  
winstonassociates.com



# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA

PREPARED FOR:

SHEET NAME:  
**PLANS, SECTIONS  
AND ELEVATIONS**

DATE: 8-1-11  
DRAWN BY: A.M.  
CHECKED BY: R.H.

SHEET NUMBER:  
**S2.1**

**HYTTINEN ENGINEERING**  
5458 Longley Lane, Suite B  
Reno, Nevada 89511  
Phone (775) 826-3019  
Fax (775) 826-3076



**GENERAL NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH NEC AND LOCAL CODES.
2. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC. TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL CIVIL DETAILS AND ADJUST WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. DISCREPANCIES BETWEEN DIFFERENT PLANS OR BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING. ANY CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
3. ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARDS.
4. ALL WORK SHALL BE SUBJECT TO INSPECTION AND POSSIBLE REJECTION IF NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
5. ANY REJECTED WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
6. PROVIDE REPRODUCIBLE RECORD DRAWINGS OF ALL COMPLETED WORK.
7. MINIMUM SEPARATIONS FOR OTHER UTILITIES ARE AS FOLLOWS UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITIES, POWER OR OTHER FOREIGN CONDUIT: 3" CONCRETE, 4" PLYWOOD, 12" WELL TAMPED EARTH PILES (OIL, GAS ETC.), 6" WHEN CROSSING, 12" WHEN PARALLEL, STORM DRAIN: 6" WHEN CROSSING, 12" WHEN PARALLEL, WATER SANITARY SEWER: 18" WHEN CROSSING, 5" WHEN PARALLEL.
8. IT IS CONTRACTORS RESPONSIBILITY TO CALL 1-800-221-2600 PRIOR TO DIGGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
9. DAMAGE TO ANY UTILITIES SHALL BE REPAIRED IMMEDIATELY IN COMPLIANCE WITH THE DAMAGED UTILITY OWNER AND INSPECTED PRIOR TO BACKFILL. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES PRIOR TO INSTALLATION OF NEW DUCT BANK.
10. THE MAXIMUM NUMBER OF CONDUIT BENDS SHALL NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
11. ALL CONDUIT, INNERDUCT, FILLBOXES AND VALVES SHALL BE LABELED PER THE SPECIFICATIONS.
12. EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. PULL ROPE.

SHEET	DESCRIPTION
E1	ELECTRICAL LEGEND, GENERAL NOTES & DRAWING SCHEDULE
E2	ELECTRICAL DETAILS & PHOTOGRAPHS
E3	NORTH GATEWAY SIGN ELECTRICAL PLAN
E4	EAST GATEWAY SIGN ELECTRICAL PLAN
E5	SOUTH GATEWAY SIGN ELECTRICAL PLAN
	TOTAL SHEETS IN ISSUE:
5	

**ELECTRICAL LEGEND:**

<p>■ PANELBOARD - SURFACE MOUNTED</p> <p>■ PANELBOARD - FLUSH MOUNTED</p> <p>▨ SWITCHBOARD</p> <p>▩ TERMINAL CABINET</p> <p>⊞ TRANSFORMER</p> <p>⊞ FILLBOX</p> <p>⊞ MOTOR STARTER</p> <p>⊞ COMBINATION MOTOR STARTER</p> <p>⊞ DISCONNECT SWITCH "F" INDICATES FUSIBLE</p> <p>⊞ DISCONNECT SWITCH VENDOR FURNISHED</p> <p>⊞ DISCONNECT SWITCH</p> <p>⊞ ENCLOSED CIRCUIT BREAKER</p> <p>⊞ CONTACTOR OR RELAY</p> <p>⊞ CONTRACTOR VENDOR FURNISHED</p> <p>⊞ GROUND ROD</p>	<p>⊞ LIGHTING FIXTURE</p> <p>- LOWERCASE LETTER DENOTES SWITCHING</p> <p>(a) = CENTER LAMP, b = OUTER LAMPS)</p> <p>⊞ WALL MOUNTED FIXTURE - SEE SCHEDULE FOR TYPE</p> <p>⊞ RECESSED DOWNLIGHT</p> <p>⊞ SURFACE LUMINAIRE</p> <p>⊞ POLE MOUNTED LIGHT</p> <p>⊞ FLUORESCENT STRIP FIXTURE</p> <p>⊞ TRACK LIGHTING</p> <p>⊞ EMERGENCY LIGHTING UNIT</p> <p>⊞ EXIT FIXTURE</p> <p>- SHADED AREA DENOTES LIGHTED FACE</p> <p>- ARROWS DENOTE DIRECTION</p> <p>⊞ NIGHT LIGHT OR EMERGENCY CONNECTED FIXTURE</p> <p>⊞ PHOTOELECTRIC CELL (ON ROOF FACING NORTH UDN)</p> <p>⊞ TIMECLOCK</p>	<p>⊞ GROUND FAULT INTERRUPTER DEVICE</p> <p>⊞ WETTING</p> <p>⊞ SHUNT TRIP</p> <p>⊞ TRANSFORMER</p> <p>⊞ MOTOR OUTLET/ NUMBER = HORSEPOWER</p> <p>⊞ GENERATOR</p> <p>⊞ INTERRUPTER SWITCH</p> <p>⊞ FUSE</p> <p>⊞ CIRCUIT BREAKER</p> <p>⊞ DRAWOUT CIRCUIT BREAKER</p> <p>⊞ CONTROL DEVICE, LETTERS INDICATE TYPE:</p> <p>F15 = FLOAT SWITCH, F5 = FLOW SWITCH</p> <p>F15 = FOOT SWITCH, L5 = LIMIT SWITCH</p> <p>F5 = REHEATING SWITCH, P5 = PRESSURE SWITCH</p> <p>T5 = TEMPERATURE SWITCH</p>	<p>⊞ SPEAKER</p> <p>⊞ CCTV SURVEILLANCE CAMERA OUTLET</p> <p>⊞ TELEVISION OUTLET: 18" AFF (UNO)</p> <p>⊞ TELEPHONE TERMINAL BOARD</p> <p>- 4 X 8 X 3/4 FIRE TREATED PLYWOOD</p> <p>⊞ TELEPHONE TERMINAL CABINET</p> <p>⊞ CLOCK OUTLET</p> <p>⊞ THERMOSTAT</p> <p>⊞ JUNCTION BOX (USED FOR CLARITY ONLY)</p> <p>⊞ ELECTRIC SHEET NOTE DESIGNATION</p> <p>⊞ FIXTURE DESIGNATION: F1 = TYPE (SEE FIXTURE SCHEDULE)</p> <p>⊞ REVISION DELTA, NUMBER REPRESENTS REVISION</p> <p>⊞ SIGNAGE CONNECTION</p> <p>⊞ MECHANICAL AND PLUMBING EQUIPMENT</p>	<p>⊞ CONDUIT IN WALL OR ABOVE CEILING</p> <p>⊞ CONDUIT IN FLOOR OR BELOW GRADE</p> <p>⊞ METAL CLAD CABLE (MC)</p> <p>⊞ OVERHEAD SERVICE</p> <p>⊞ PRIMARY</p> <p>⊞ SECONDARY</p> <p>⊞ TELEPHONE</p> <p>⊞ TELEVISION</p> <p>⊞ LOW VOLTAGE AND/OR CONTROL CIRCUITING</p> <p>⊞ STUB OUT: MARK AND CAP (SITE)</p> <p>⊞ CIRCUITING UP OR DOWN</p>	<p>⊞ WHEN TIC MARKS ARE NOT INDICATED, BRANCH CIRCUIT WITH (I) PHASE AND (II) NEUTRAL, CONDUCTOR AND (I) GROUNDING WIRE</p> <p>⊞ HORIZONTAL TO PANELBOARD OR DEVICE</p> <p>⊞ HORIZONTAL CIRCUIT DESIGNATION (ROUND ROBIN SHOWN)</p> <p>⊞ GROUNDING WIRE</p> <p>⊞ NEUTRAL CONDUCTOR</p> <p>⊞ PHASE CONDUCTOR(S)</p> <p>⊞ HORIZONTAL CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)</p> <p>⊞ GROUNDING WIRE</p> <p>⊞ PHASE CONDUCTOR(S)</p> <p>⊞ HORIZONTAL CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)</p> <p>⊞ GROUNDING WIRE</p> <p>⊞ PHASE CONDUCTOR(S)</p> <p>⊞ PANEL NAME</p>	<p>NOTE: THIS IS A MASTER SYMBOL LIST. ALL SYMBOLS AND NOTATIONS MUST BE USED WITH THIS SET OF PLANS.</p>
<p>5 SINGLE POLE SWITCH 48" AFF (UNO)</p> <p>53 THREE WAY SWITCH 48" AFF (UNO)</p> <p>54 FOUR WAY SWITCH 48" AFF (UNO)</p> <p>5K KEY OPERATED SWITCH 48" AFF (UNO)</p> <p>5D DIMMER OPERATED SWITCH 48" AFF (UNO)</p> <p>5P SWITCH WITH PILOT LIGHT 48" AFF (UNO)</p> <p>5M MANUAL MOTOR STARTER</p> <p>5T TIME WALL SWITCH 48" AFF (UNO)</p> <p>5T OCCUPANCY DETECTOR - WALL MOUNTED 48" AFF (UNO)</p> <p>5T ULTRASONIC TYPED ARROWS INDICATE DIRECTION &amp; COVERAGE</p> <p>5T PROVIDE WITH POWER FACTOR PER IFC REQUIREMENTS</p> <p>5 CONTROL STATION</p>	<p>⊞ DATA/PHONE OUTLET: 18" AFF (UNO)</p> <p>- 1 PHONE 1 DATA JACK, 4 BLANKS</p> <p>⊞ DATA OUTLET: FLOOR MOUNTED</p> <p>⊞ MULTIOULET ASSEMBLY</p> <p>- ARROW HEADS INDICATE EXTENT</p> <p>- NUMBERS INDICATE SPACING IN INCHES</p> <p>⊞ TELEPHONE OUTLET: 18" AFF (UNO)</p> <p>⊞ PAY TELEPHONE OUTLET: 48" AFF (UNO)</p> <p>⊞ FLOOR MOUNTED TELEPHONE OUTLET</p>	<p>⊞ SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)</p> <p>⊞ DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)</p> <p>⊞ DUPLEX RECEPTACLE: FLOOR MOUNTED</p> <p>⊞ QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, 18" AFF (UNO)</p> <p>⊞ ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE)</p> <p>- 20A, 125V, NEMA 5-2016, 18" AFF (UNO)</p> <p>⊞ DUPLEX RECEPTACLE GFI TYPE</p> <p>- 20A, 125V, NEMA 5-20GFI, 18" AFF (UNO)</p> <p>⊞ DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT)</p> <p>⊞ SPECIAL PURPOSE RECEPTACLE - NUMBER REFERS TO RECEIPT SCHEDULE NEMA CONFIG</p> <p>⊞ MULTIOULET ASSEMBLY</p> <p>- ARROW HEADS INDICATE EXTENT</p> <p>- NUMBERS INDICATE SPACING IN INCHES</p>	<p>⊞ TICS + NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING WIRE (NOT SHOWN) ALWAYS REQUIRED.</p> <p>⊞ ISOLATED GROUNDING CONDUCTOR</p> <p>⊞ NEUTRAL CONDUCTOR(S)</p> <p>⊞ PHASE CONDUCTOR(S)</p>	<p>20 SINGLE POLE CIRCUIT BREAKER</p> <p>20/2 TWO POLE CIRCUIT BREAKER</p> <p>20/3 THREE POLE CIRCUIT BREAKER</p> <p>206 GFI CIRCUIT BREAKER</p> <p>20A6 ARC FAULT GFI COMBINATION CIRCUIT BREAKER</p> <p>20C CONTROLLABLE CIRCUIT BREAKER</p>		

6/17/2008

ISSUE RECORD / REVISION:  
PURPOSE: DATE:  
BID SET: 7.1-11

WINSTON ASSOCIATES  
4606 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-440-6911  
winstonassociates.com



# CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA

PREPARED FOR:

SHEET NAME:  
LEGEND,  
SPECIFICATIONS &  
DWG SCHEDULE

DATE: 7.1-11  
DRAWN BY: DOT  
CHECKED BY: KDP

SHEET NUMBER

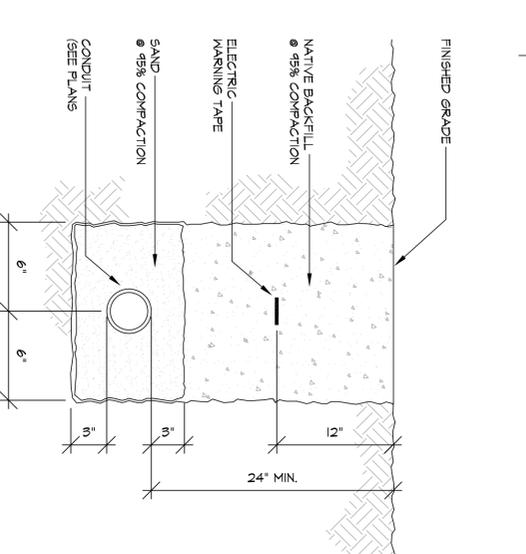
E1



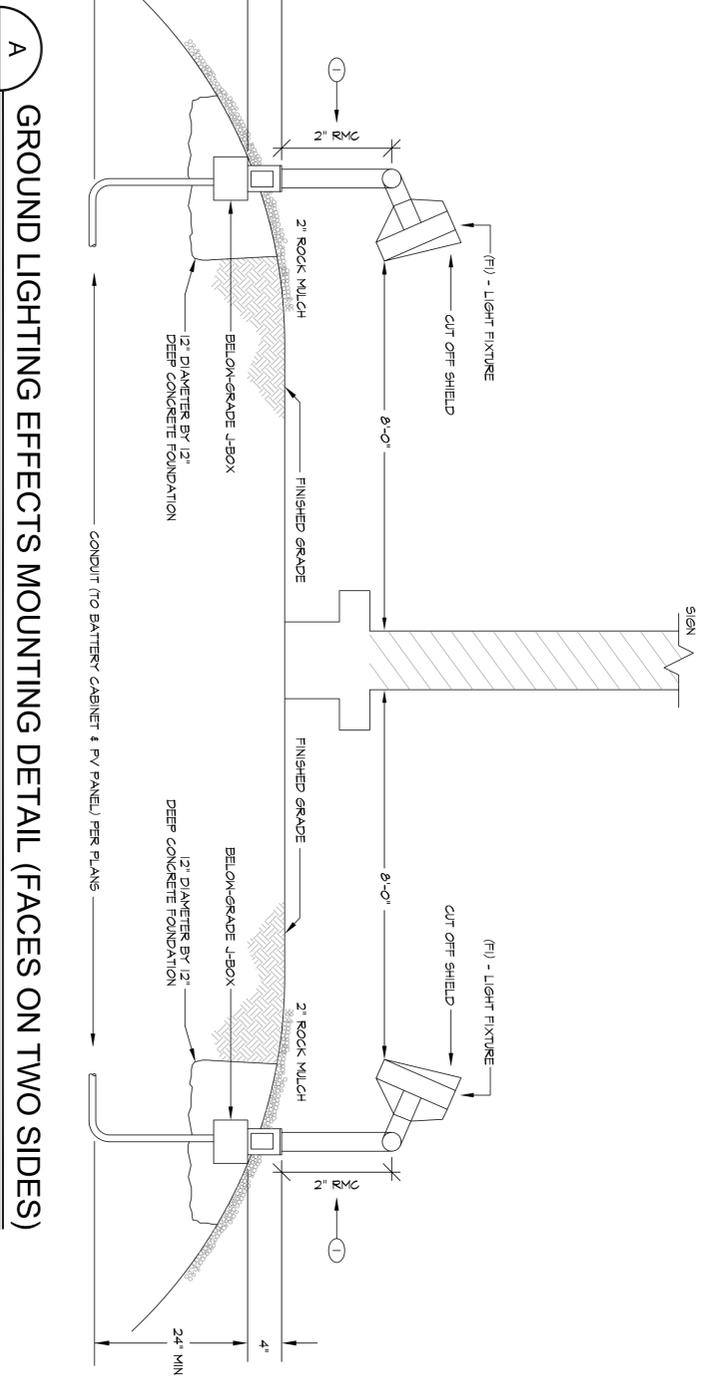
**PK Electrical, Inc.**  
681 Sierra Rose Dr., Ste. B • Reno, Nevada 89511  
P. 775.825.9010 • F. 775.826.9030 • pk-electrical.com  
10043

**SHEET NOTES**

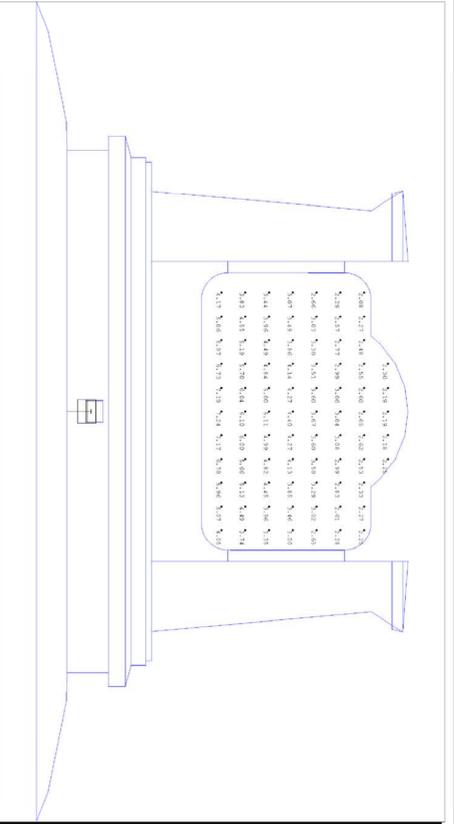
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF 1'-0" RIGID GALVANIZED STEEL CONDUIT FROM GRADE TO FIXTURE HEAD TO BE FIELD ADJUSTED. ELECTRICAL CONDUIT SHALL BE LEAD FREE. CONDUIT SHALL BE 1/2" ABOVE FINISHED GRADE. CONDUIT SHALL BE FIELD ADJUSTED TO THE SIGN HEIGHT. THE MANUFACTURER SHALL PROVIDE THE FIELD ADJUST CONDUIT LENGTH PER GRADE. SEVERE GRADE DROPS MAY INCREASE CONDUIT LENGTH.
- POLE HEIGHT SHOULD REMAIN 10'-0" ABOVE FINISHED GRADE. THERE MUST BE 4 FEET OF POLE BELOW GRADE. ELECTRICAL CONTRACTOR SHALL ENGINEER PROVIDES A MINIMUM OF A 14'-0" POLE TO MEET ABOVE AND BELOW GRADE REQUIREMENTS AND NECESSARY EPA RATING.
- PV MOUNTING SHALL BE "TILT PLATE" TYPE. SEE SOL MANUFACTURERS INSTALLATION GUIDE FOR TILT PLATE & CROSS RAIL REQUIREMENTS.



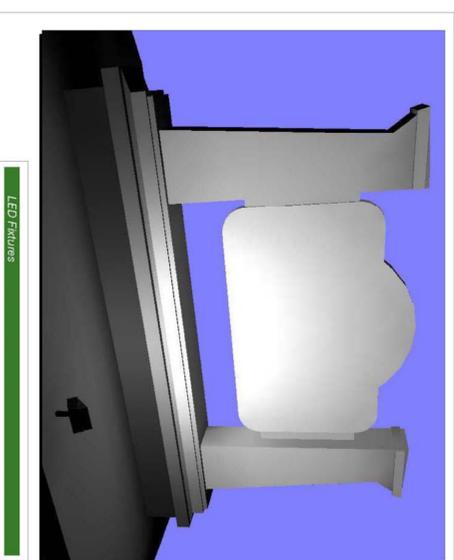
**B**  
TYP 12" TRENCH DETAIL  
SCALE: NONE



**A**  
GROUND LIGHTING EFFECTS MOUNTING DETAIL (FACES ON TWO SIDES)  
SCALE: NONE



**22FT WIDE X 14FT TALL MONUMENT SIGN WITH 1 FIXTURE ON EACH SIDE. FIXTURE HAS AN 8FT SETBACK FROM FACE AND IS TILTED UP 65 DEGREES. FIXTURE TO BE PROVIDED WITH FRONT GLARE SHIELD(FGS) AND KNUCKLE**



**LED FIXTURES**

**20 LED 12" Shookbox**  
The better, brighter light fixture  
**FEATURES**  
• Superior light output  
• Superior energy efficiency  
• Superior durability  
• Superior safety  
• Superior performance  
• Superior reliability  
• Superior warranty  
• Superior support  
• Superior service  
• Superior value  
• Superior quality  
• Superior design  
• Superior engineering  
• Superior manufacturing  
• Superior testing  
• Superior inspection  
• Superior packaging  
• Superior shipping  
• Superior handling  
• Superior installation  
• Superior maintenance  
• Superior repair  
• Superior replacement  
• Superior disposal

Luminaire Schedule	Symbol	Qty	Label	Arrangement	LLF	Description
1	T23942t	1	SINGLE	0.880	20LED30W SB WITH GLARE SHIELD	

CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Object_Top	Illuminance	Fc	3.86	7.24	2.08	1.86 3.48

THE FOLLOWING IS THE SOLAR LIGHTING SYSTEM THAT IS SIZED FOR THIS LOCATION AND WILL RUN DUSK-TO-DAWN:  
**BLS-375-3B100-(2)Q2LED30WSBFGS-SC350-DTD**

**SOLAR LIGHTING SOLUTION**

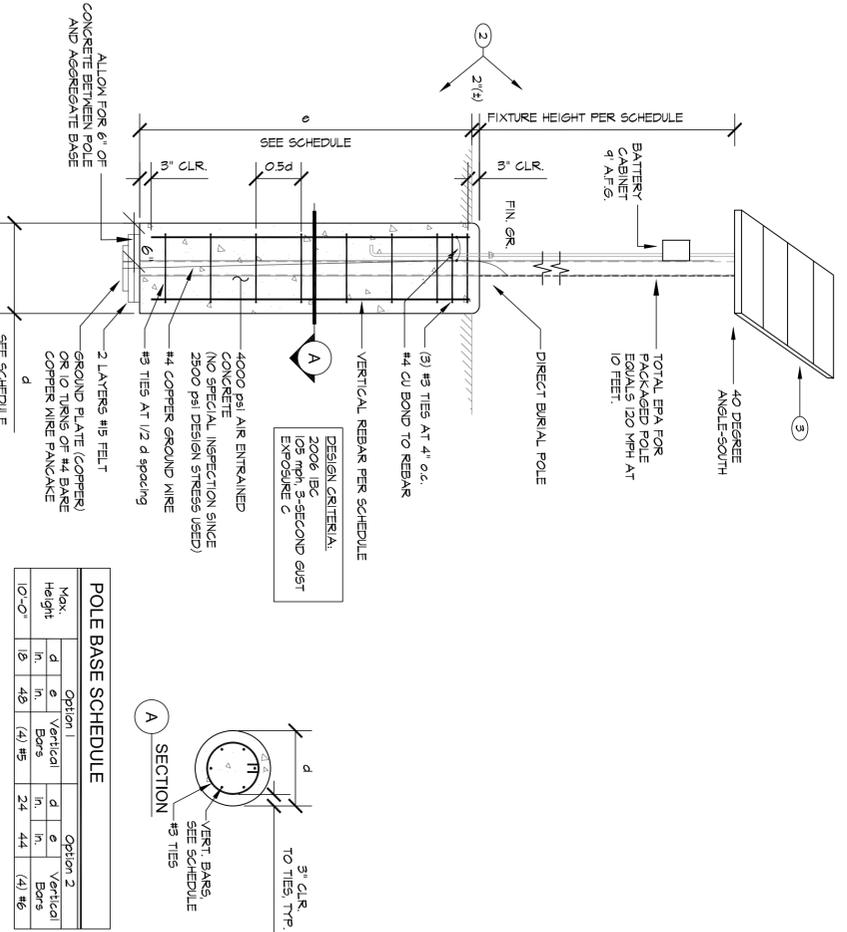
WELCOME TO CARSON CITY  
SOLAR DUAL-SIDED SIGN LIGHTING  
CARSON CITY, NEVADA

SOL Project Number: A1007103  
Project Name: CARSON CITY SIGNAGE  
Drawn By: Gregory Perez, LEED AP  
Checked By: Gregory Perez, LEED AP  
Date: 7/9/2010  
Scale: None



#	Date	Comments
1	7/9/2010	ISSUED FOR PERMIT
2	7/9/2010	ISSUED FOR PERMIT
3	7/9/2010	ISSUED FOR PERMIT
4	7/9/2010	ISSUED FOR PERMIT

**C**  
POLE BASE - FLUSH  
SCALE: NONE



Max Height	Option 1	Option 2
d	e	e
10'-0"	10	10
	4#	4#
	4#	4#
	24	44
		4#



**CARSON CITY GATEWAY SIGNAGE PROJECT CARSON CITY, NEVADA**



**WINSTON ASSOCIATES**  
4606 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-440-6911  
winstonassociates.com

ISSUE RECORD / REVISION:  
PURPOSE: BID SET  
DATE: 7-1-11

SHEET NAME: ELECTRICAL DETAILS & PHOTOMETRICS  
DATE: 7-1-11  
DRAWN BY: DDT  
CHECKED BY: KDP

SHEET NUMBER: E2

**LIGHTING FIXTURE SCHEDULE**

PK ELECTRICAL, INC. © 2007

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

- SUBSTITUTIONAL DEFINITIONS**
- OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
  - NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.
  - ⊙ SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS, DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
FI	∅	MONUMENT SIGNAGE LUMINAIRE WITH 1 FIXTURE ON EACH SIDE. FIXTURE SETBACK SHALL BE 8FT FROM FACE. 65 DEGREE TILT. FIXTURE INCLUDES CUTOFF GLARE SHIELD. AND KNUCKLE MOUNT. LAMP: 30W LED VOLTAGE: 12V DC MANUFACTURER SOL: BL-5-375-39100-12/22LED30WBEF66-SC350-D17 SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ⊙ NO EQUAL



**SHEET NOTES**

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL SOLAR LED LIGHT KIT TO ILLUMINATE GATEWAY SIGNAGE EQUAL TO THAT SPECIFIED AS FI. PACKAGE SHALL BE RATED FOR DARK TO DAWN ILLUMINATION AND MUST INCLUDE A MINIMUM OF (2) LED FIXTURES PER KIT. FIXTURE FOR EACH FACE. BATTERY, BATTERY STORAGE, 14 POLE, POLE MOUNTED SOLAR PANEL BRACKET, AND SOLAR (PV) PANEL. BATTERY SHALL BE RATED FOR AND EXCEED TOTAL SYSTEM LOAD. BATTERY STORAGE SHALL BE RATED FOR AND EXCEED TOTAL SYSTEM LOAD. THE DESIGNER FOR AUTHORIZATION MUST BE AN INDUSTRY PACKAGE WITH MANUFACTURER'S AND INCLUDE AN UPDATED PHOTOMETRIC MODEL TO BE CONSIDERED.
- 2 ELECTRICAL CONTRACTOR TO MOUNT PV PANELS (FACING DIRECTLY SOUTH WITH A 40° TILT), FUSE, BATTERY ENCLOSURE, BATTERIES ETC. TO POLE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POLE AND PANEL FINAL LOCATION SHALL BE APPROVED BY OWNER.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 1" PVC CONDUIT FROM POLE BASE TO FIXTURE WITH (2) # 8 AND (1) #12 VOLTAGE SENSOR LEAD. SEE DETAIL E/E2. ALL WIRING CONNECTIONS SHALL BE MADE PER MANUFACTURER'S INSTRUCTIONS. CONSULT INSTALLATION MANUAL FOR LOAD CABLE MAX LENGTH UNDER LOAD OF (1) FIXTURE WHEN POSSESSING FINAL LOCATION. CURRENT MAXIMUM DISTANCE SHALL NOT EXCEED 49' FROM POLE MOUNTED CONTROL TO FIXTURE.
- 4 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL INNER WIRING CONNECTIONS BETWEEN BATTERY CONTROLLER PANEL AND FIXTURE HEADS FOR A COMPLETE OPERABLE SYSTEM PER MANUFACTURER'S INSTRUCTIONS.
- 5 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATTERY TO CABINET AS REQUIRED BY MANUFACTURER MOUNT BATTERY CABINET AT MAXIMUM HEIGHT ABOVE FINISHED GRADE.



**A NORTH GATEWAY SIGN ELECTRICAL PLAN**

**E3**

SCALE: 1" = 10'-0"



**PK Electrical, Inc.**  
681 Sierra Rose Dr., Ste. B • Reno, Nevada 89511  
P. 775.826.9010 • F. 775.826.9030 • pkelectrical.com  
10043

**CARSON CITY GATEWAY  
SIGNAGE PROJECT  
CARSON CITY, NEVADA**



**WINSTON ASSOCIATES**  
4606 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-446-6911  
winstonassociates.com

ISSUE RECORD / REVISION:  
PURPOSE: \_\_\_\_\_ DATE: \_\_\_\_\_  
BID SET: \_\_\_\_\_ 7.1.11

SHEET NAME:  
**NORTH GATEWAY  
SIGN ELECTRICAL  
PLAN**

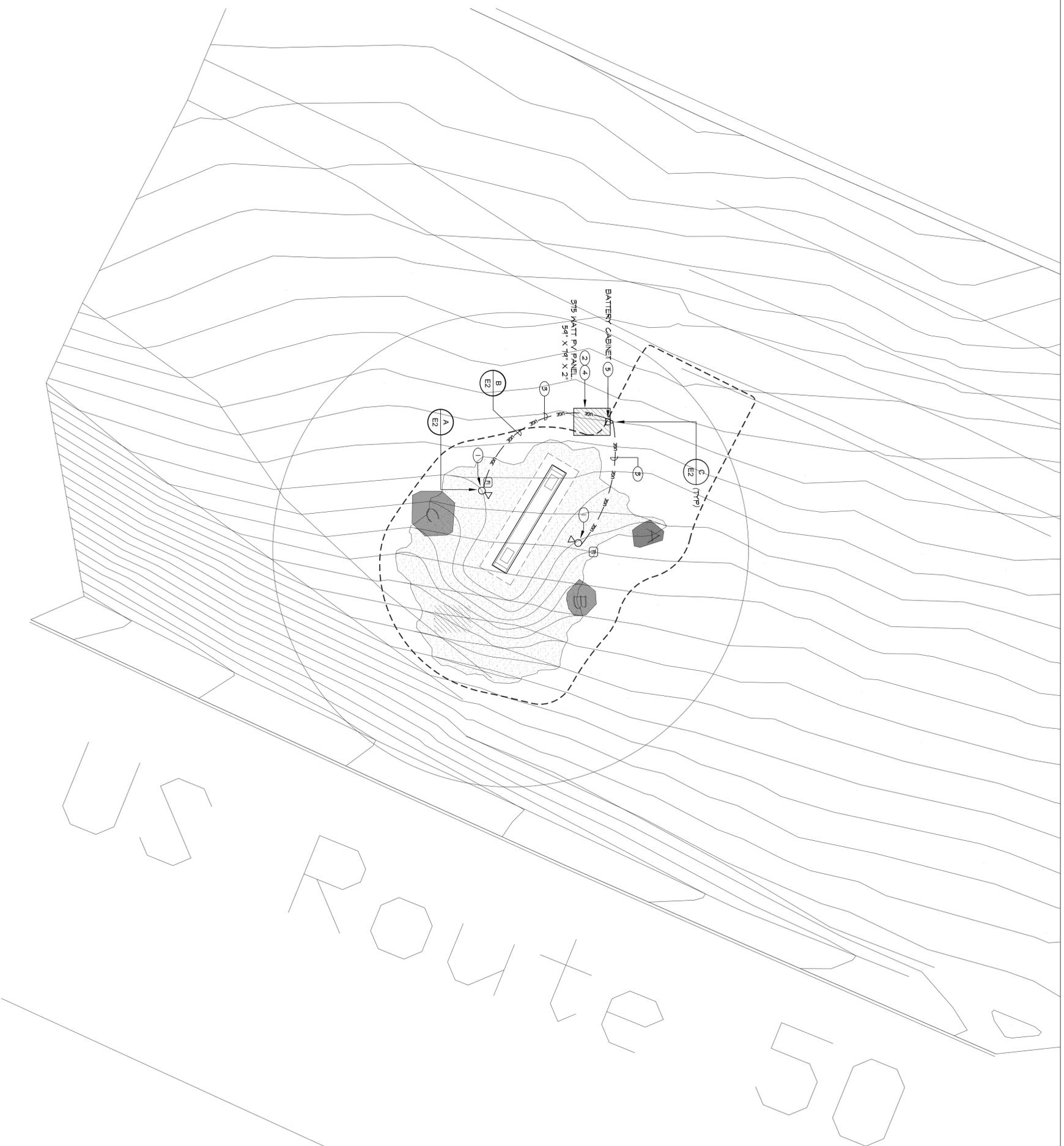
DATE: 7-1-11  
DRAWN BY: DOT  
CHECKED BY: KDP

SHEET NUMBER: **E3**

PREPARED FOR:

**SHEET NOTES**

- ① ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL SOLAR LED LIGHT KIT TO ILLUMINATE GATEWAY SIGNAGE EQUAL TO THAT SPECIFIED AS F1. PACKAGE SHALL BE RATED FOR DISK TO DAWN ILLUMINATION AND MUST INCLUDE A MINIMUM OF (2) LED FIXTURES PER KIT/ FIXTURE FOR EACH FACE. BATTERY, BATTERY STORAGE, (4) POLE, POLE MOUNTED SOLAR PANEL BRACKET, AND SOLAR (PV) PANEL, PANEL SHALL BE RATED FOR AND EXCEED DISK TO DAWN PERFORMANCE OF THE LIGHTS SPECIFIED. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR AUTHORIZATION. MUST BE AN ALL INCLUSIVE PACKAGE WITH WARRANTY, AND INCLUDE AN UPDATED PHOTO-METRIC MODEL TO BE CONSIDERED.
- ② ELECTRICAL CONTRACTOR TO MOUNT PV PANELS (FACING DIRECTLY SOUTH WITH A 40° TILT), USE BATTERY ENCLOSED BATTERIES ETC. TO POLE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POLE AND PANEL FINAL LOCATION SHALL BE APPROVED BY OWNER.
- ③ ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 1" PVC CONDUIT FROM POLE BASE TO FIXTURE WITH (2# 8 AND (1) #12 VOLTAGE SENSOR LEAD. SEE DETAIL B2E. ALL WIRING CONNECTIONS SHALL BE MADE PER MANUFACTURER'S INSTRUCTIONS. CONSULT INSTALLATION MANUAL FOR LOAD CABLE MAX LENGTH UNDER LOAD OF (1) FIXTURE WHEN ASSESSING FINAL LOCATION. CURRENT MAXIMUM DISTANCE SHALL NOT EXCEED 45' FROM POLE MOUNTED CONTROL TO FIXTURE.
- ④ ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL INNER WIRING CONNECTIONS BETWEEN BATTERY, CONTROLLER PANEL AND FIXTURE HEADS FOR A COMPLETE OPERABLE SYSTEM PER MANUFACTURER'S INSTRUCTIONS.
- ⑤ ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATTERY TO CABINET AS REQUIRED BY MANUFACTURER. MOUNT BATTERY CABINET AT MAXIMUM HEIGHT ABOVE FINISHED GRADE.



A  
E4

**EAST GATEWAY SIGN ELECTRICAL PLAN**

SCALE: 1" = 10'-0"



**PK Electrical, Inc.**  
681 Sierra Rose Dr., Ste. B • Reno, Nevada 89511  
P. 775.825.9010 • F. 775.826.9030 • pkelectrical.com  
10043

ISSUE RECORD / REVISION:  
PURPOSE: \_\_\_\_\_ DATE: \_\_\_\_\_  
BID SET: 7.1.11

**WINSTON ASSOCIATES**  
4606 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-440-6911  
winstonassociates.com



**CARSON CITY GATEWAY  
SIGNAGE PROJECT  
CARSON CITY, NEVADA**

PREPARED FOR: \_\_\_\_\_

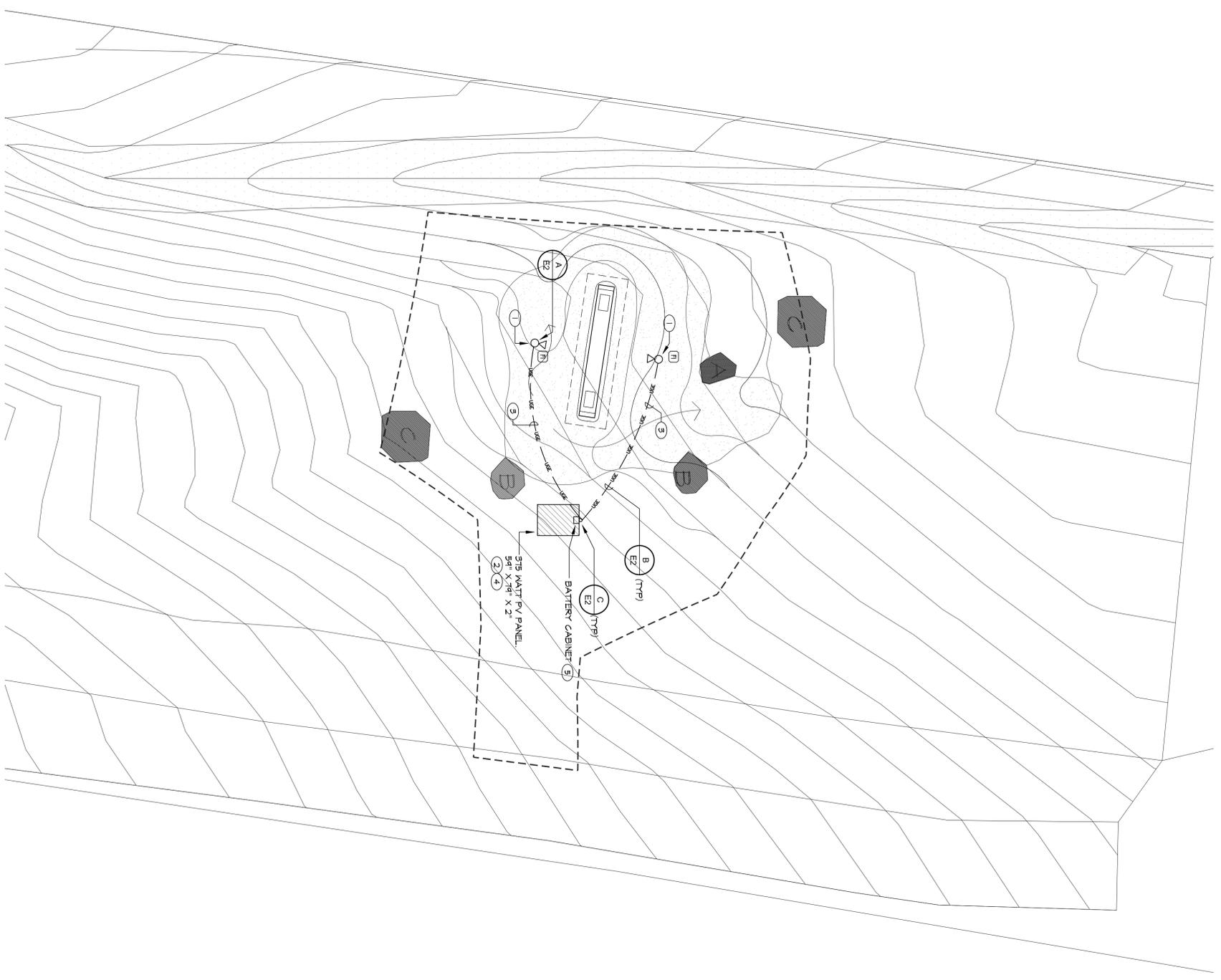
SHEET NAME:  
**EAST GATEWAY SIGN  
ELECTRICAL PLAN**

DATE: 7-1-11  
DRAWN BY: DDT  
CHECKED BY: KDP

SHEET NUMBER:  
**E4**

**SHEET NOTES**

- ① ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FULLY OPERATIONAL SOLAR LED LIGHT KIT TO ILLUMINATE GATEWAY SIGNAGE SIGNAL TO THAT SPECIFIED AS FOLLOWS: (1) LED FIXTURES PER RATED FOR DISK TO DOWN ILLUMINATION AND MUST INCLUDE A MINIMUM OF (2) LED FIXTURES PER KIT (1) FIXTURE FOR EACH FACE) BATTERY, BATTERY STORAGE, (4) POLE, POLE MOUNTED SOLAR PANEL BRACKET, AND SOLAR (PV) PANEL. PANEL SHALL BE RATED FOR AND EXCEED DISK TO DOWN PERFORMANCE OF THE LIGHTS SPECIFIED. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR AUTHORIZATION. MUST BE AN ALL INCLUSIVE PACKAGE WITH WARRANTY, AND INCLUDE AN UPDATED PHOTOGENIC MODEL TO BE CONSIDERED.
- ② ELECTRICAL CONTRACTOR TO MOUNT PV PANEL 5' (FACING DIRECTLY SOUTH WITH A 40° TILT), FIVE BATTERY ENCLOSURE BATTERIES ETC. TO POLE PER MANUFACTURERS INSTALLATION INSTRUCTIONS. POLE AND PANEL FINAL LOCATION SHALL BE APPROVED BY OWNER.
- ③ ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 1" PVC CONDUIT  
OF (1) FIXTURE WHEN ASSESSING FINAL LOCATION CURRENT MAXIMUM DISTANCE SHALL NOT EXCEED 48" FROM POLE MOUNTED CONTROL TO FIXTURE.
- ④ ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL INNER WIRING CONNECTIONS BETWEEN BATTERY CONTROLLER, PANEL, AND FIXTURE HEADS FOR A COMPLETE OPERABLE SYSTEM PER MANUFACTURERS INSTRUCTIONS.
- ⑤ ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL BATTERY TO CABINET AS REQUIRED BY MANUFACTURER. MOUNT BATTERY CABINET AT MAXIMUM HEIGHT ABOVE FINISHED GRADE.



**A SOUTH GATEWAY SIGN ELECTRICAL PLAN**

**E5** SCALE: 1" = 10'-0"



ISSUE RECORD / REVISION:  
PURPOSE: DATE:  
BID SET: 7.1.11

**WINSTON ASSOCIATES**  
4606 Broadway  
Boulder, CO 80304  
Tel: 303-440-9200  
Fax: 303-449-6911  
winstonassociates.com



**CARSON CITY GATEWAY  
SIGNAGE PROJECT  
CARSON CITY, NEVADA**

PREPARED FOR:

SHEET NAME:  
**SOUTH GATEWAY  
SIGN ELECTRICAL  
PLAN**

DATE: 7-1-11  
DRAWN BY: DDT  
CHECKED BY: KDP

SHEET NUMBER: **E5**



**PK Electrical, Inc.**  
681 Sierra Rose Dr., Ste. B • Reno, Nevada 89511  
P. 775.825.9010 • F. 775.826.9030 • pkelectrical.com  
10043