GENERAL CONDITIONS

1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
5. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
6. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE ENGINEER OF ANY CONDITION WHICH IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
8. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.
9. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
10. NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
11. DISCREPANCIES FOUND BETWEEN STRUCTURAL DRAWINGS AND OTHER DOCUMENTS ARE TO BE NOTED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.
12. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC), AND STANDARDS REFERENCED THEREIN.

FOUNDATION

1. THE GEOTECHNICAL REPORT IS BY NINYO & MOORE PROJECT NO. 302492001, DATED NOVEMBER 28, 2007.
2. FOOTING BEARING PRESSURE: 2,000 PSF WITH ⅓ INCREASE FOR WIND AND SEISMIC
   MINIMUM FOOTING DEPTH: 12" BELOW ADJACENT GRADE
3. LATERAL EARTH PRESSURE:
   PASSIVE: 400 PSF
   COEFFICIENT OF BASE FRICTION: 0.41
4. ALL CONCRETE SLAB-ON-GRADE FLOORS ARE TO BE FOUNDED ON 4 INCHES OF TYPE II AGGREGATE BASE OVERLYING 6 INCH THICK ZONE OF STRUCTURAL FILL. AGGREGATE BASE UNDERLYING SLAB-ON-GRADE FLOORS SHOULD BE COMPACTED TO 90 PERCENT AND STRUCTURAL FILL TO 95% DENSITY PER ASTM D-1557.
5. DRAINAGE MEASURES SHOULD INCLUDE FREE-DRAINING GRANULAR BACKFILL MATERIAL AND PERFORATED DRAIN PIPES, OR WEEPHOLES LINED WITH POLYVINYL CHLORIDE (PVC) PIPE. DRAIN PIPES SHOULD OUTLET AWAY FROM STRUCTURES AND RETAINING WALLS SHOULD BE WATERPROOFED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED CIVIL ENGINEER OR ARCHITECT.

CONCRETE

1. REFERENCE STANDARDS: ACI-301, ACI-318, 2006 IBC.
   MINIMUM CONCRETE STRENGTH (28 DAYS):
   4,500 psi (2,500 psi USED FOR STRUCTURAL DESIGN)
   CONCRETE IN CONTACT WITH EARTH SHALL BE TYPE V CEMENT.
2. MIXING: COMPLY WITH ACI-301. DO NOT EXCEED THE AMOUNT OF WATER SPECIFIED IN THE APPROVED MIX. PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.
3. PLACING: COMPLY WITH ACI-301. PROVIDE A ¾" CHAMFER FOR ALL EXPOSED CONCRETE EDGES, UNLESS INDICATED OTHERWISE ON DRAWINGS.
4. SLUMP: 4" +/- 1". DO NOT ADD WATER TO MIX TO INCREASE SLUMP. GREATER SLUMP, ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES.
5. CURING: COMPLY WITH ACI-301. KEEP CONCRETE MOIST FOR SEVEN DAYS MINIMUM.
6. JOINTING: PROVIDE ADEQUATE JOINTING TO MINIMIZE EFFECTS OF VOLUME CHANGE. JOINTS SHOWN MAY BE ADJUSTED AT CONTRACTORS'S OPTION, WITH PRIOR APPROVAL FROM ENGINEER.
7. WEATHER EXTREMES: COMPLY WITH ACI-305R FOR HOT WEATHER. COMPLY WITH ACI-306R FOR COLD WEATHER.
8. WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 (BY WEIGHT), TYPICAL.
9. ARCHITECTURAL CONCRETE SHALL BE IN CONFORMANCE WITH ACI-303R-04 FOR FINISH AND APPEARANCE.

STRUCTURAL STEEL WELDING

1. WELDING MUST BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS. ALL WELDING MUST USE E70 SERIES, LOW-HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDING MUST CONFORM WITH THE LATEST AMERICAN WELDING SOCIETY STANDARDS.
2. WELD SIZES NOT SPECIFIED ON THE DRAWINGS ARE TO BE ¼" CONTINUOUS FILLETS MINIMUM.

May 09, 2008 - 12:49pm - USER curtis.becker
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CONCRETE MASONRY

1. HOLLOW CONCRETE MASONRY UNITS SHALL BE GRADE "N" MIN. (COMPRESSIVE STRENGTH = 1,900 psi) IN ACCORDANCE WITH ASTM C-90.
   MORTAR SHALL BE TYPE "S" (f'c = 1,800 psi AT 28 DAYS)
   GROUT STRENGTH TO BE 2,000 psi AT 28 DAYS. f'm = 1,500 psi.
2. GROUT SOLID ALL REINFORCED AND BELOW GRADE CELLS IN LIFTS NOT TO EXCEED 4'-0".
3. ALL MASONRY TO BE CONSTRUCTED IN RUNNING BOND IN ACCORDANCE WITH THE IBC.
4. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A615, GRADE 60, (fy = 60,000 psi). SPLICES SHALL BE 48 BAR DIAMETERS MINIMUM UNLESS OTHERWISE SHOWN.
5. PROVIDE VERTICAL BARS FULL HEIGHT AT WALL ENDS, CORNERS AND ON EACH SIDE OF EXPANSION JOINTS. PROVIDE CONTINUOUS HORIZONTAL BARS AT CORNERS.
6. BLOCK UNITS SHALL BE SUFFICIENTLY MOIST AT TIME OF LAYING TO PREVENT DEHYDRATION OF MORTAR AND GROUT.
7. CEMENT USED IN CONCRETE MASONRY MATERIALS BELOW GRADE SHALL BE TYPE V, SULFATE RESISTANT.
8. REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS.
9. FLEXURAL REINFORCEMENT TOLERANCE = +/- ½" FOR DEPTH d<8"
   = +/- 1" FOR DEPTH 8"<d<24"
   = +/- 1 ¼" FOR DEPTH 24"<d
   OTHER REINFORCEMENT TOLERANCE = +/- 2"

REINFORCING STEEL

1. REFERENCE STANDARDS: ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1)
2. MATERIALS:
   REINFORCING STEEL: ASTM A615, GRADE 60.
3. SPLICES:
   LAP CONTINUOUS REINFORCING BARS 48 DIAMETERS, UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT.
4. COVER:
   FOOTINGS: 3", UNLESS NOTED OTHERWISE ON PLANS
   SLABS: 3", UNLESS NOTED OTHERWISE ON PLANS
5. FORMED SURFACES:
   WEATHER FACE: 1½",#5 BARS AND SMALLER
   2", #6 BARS AND LARGER

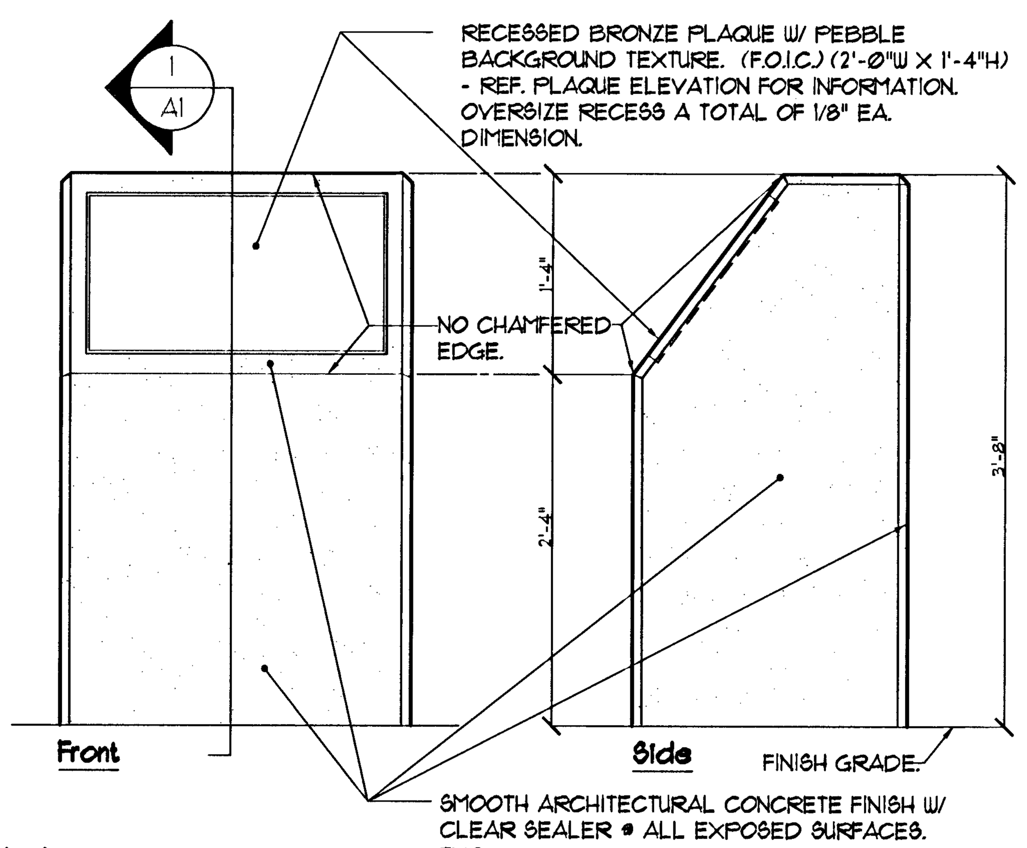
STRUCTURAL AND MISC. STEEL

1. REFERENCE STANDARDS: DESIGN, FABRICATION AND ERECTION ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. CHAIN LINK FENCE PIPE SHALL CONFORM WITH ASTM F1083-04 REGULAR GRADE PIPE (fy = 30,000 psi) UNLESS DRAWINGS INDICATE HIGH STRENGTH GRADE PIPE (fy = 50,000 psi)
3. MATERIALS:
   BOLTS - ASTM A307, UNLESS OTHERWISE NOTED
   HSS (SQUARE OR RECTANGULAR) - ASTM A500, GRADE B (fy = 46,000 psi)
   HSS (ROUND) - ASTM A500, GRADE B (fy = 42,000 psi)
4. IN ACCORDANCE WITH THE 2006 IBC, THE STEEL FABRICATOR SHALL BE APPROVED BY THE BUILDING OFFICIAL. PLEASE SUBMIT CERTIFICATE OF APPROVAL FROM THE CITY OF LAS VEGAS, INTERNATIONAL ACCREDITATION SERVICE OR AISC.

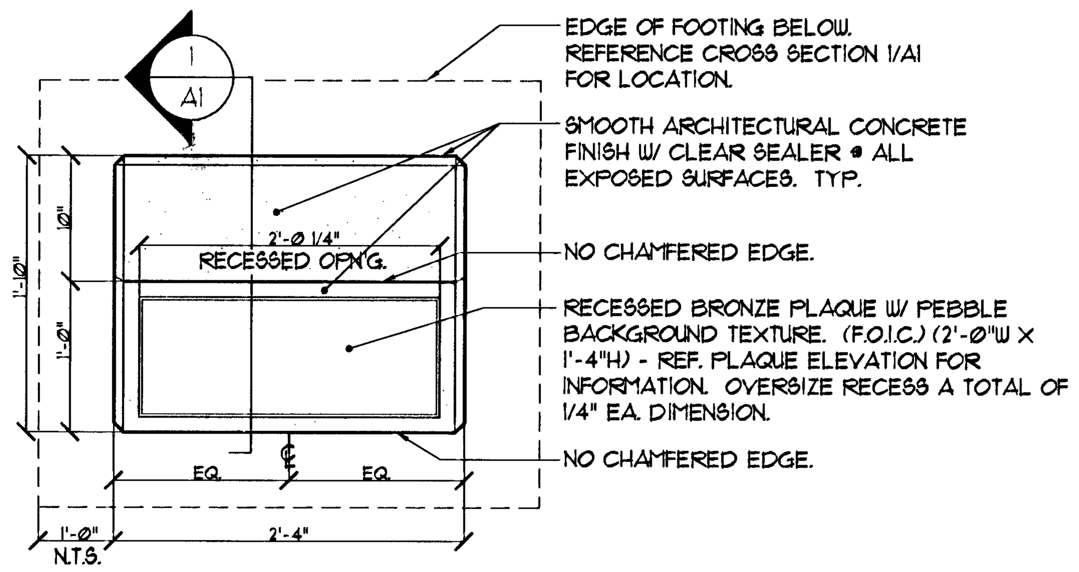
INSPECTIONS

1. GENERAL: STANDARD INSPECTIONS ARE TO BE PERFORMED BY BUILDING OFFICIAL AS REQUIRED PER SECTION 109 OF THE IBC.
   STANDARD INSPECTIONS REQUIRED ARE AS FOLLOWS:
2. SOIL: VERIFY SUBGRADE IS DRY, DENSE AND DOES NOT HAVE STANDING WATER PRIOR TO POURING FOOTINGS.
3. CONCRETE: INSPECTIONS REQUIRED ONLY FOR DESIGN MIXES SPECIFIED GREATER THAN 2,500 psi. TAKE CONCRETE CYLINDERS AS REQUIRED. VERIFY SLUMP AND STRENGTH.
4. REINFORCING: VERIFY ALL REINFORCING STEEL IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE AND GRADE.
5. BOLTS: BOLTS OR STUDDED EMBEDMENT PLATES INSTALLED INTO CONCRETE.
6. SPECIAL INSPECTION (QUALITY ASSURANCE):
   REFERENCE IBC SECTIONS 1705 AND 1707.
   SPECIAL INSPECTIONS REQUIRED BY CODE ARE TO BE PERFORMED BY OTHERS AND PAID FOR UNDER SEPARATE CONTRACT. THE SPECIAL INSPECTOR MUST INSPECT FOR CONFORMANCE WITH THE APPROVED CONTRACT DRAWINGS AND MUST FURNISH SIGNED INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION TO THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND APPLICABLE CODE PROVISIONS.

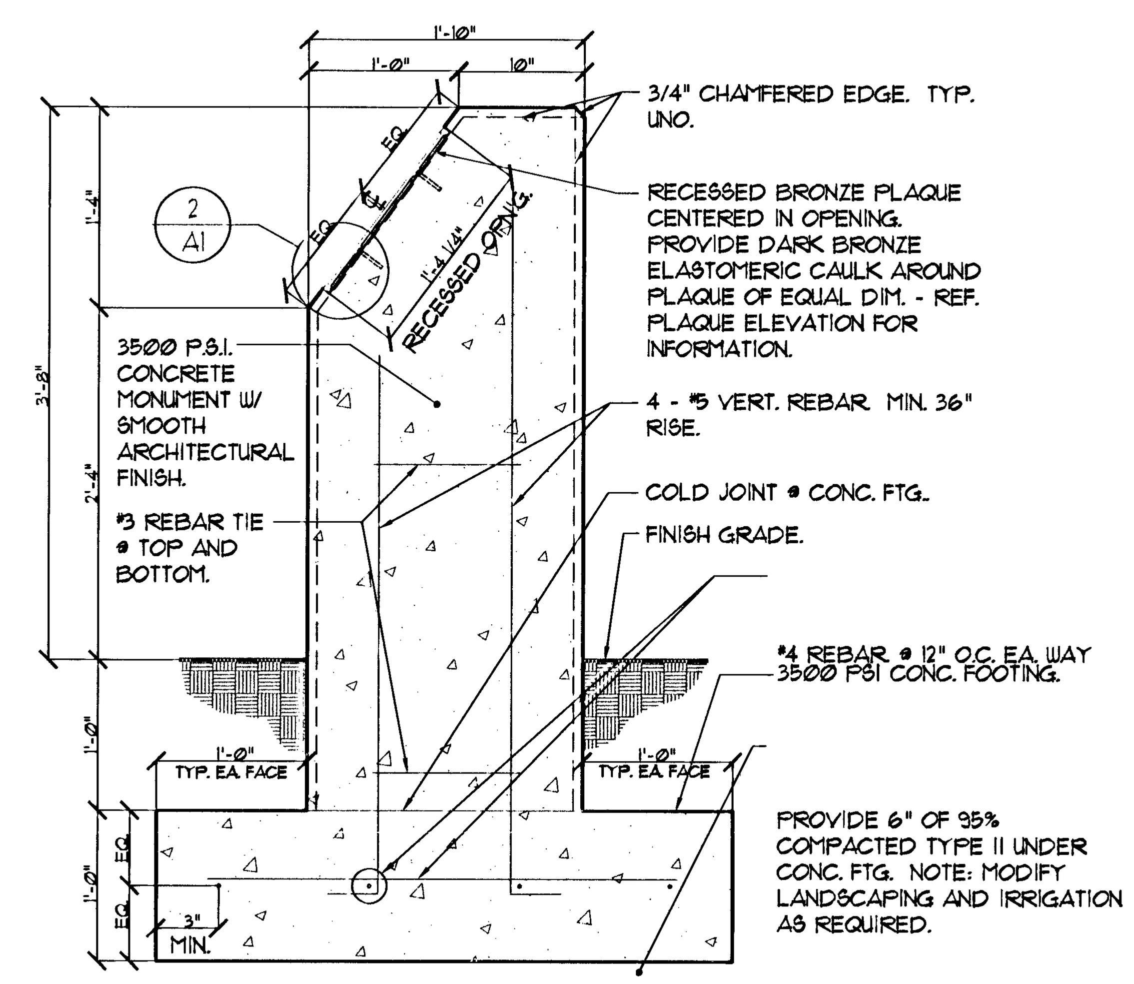
   SPECIAL INSPECTIONS (INSP'N) REQUIRED ARE:
   A. SPECIAL GRADING, EXCAVATION AND FILLING
   B. STRUCTURAL WELDING (PERIODIC SPECIAL INSP'N)
   C. MASONRY WALLS (LEVEL 1 INSPECTION FOR TRASH ENCLOSURE.)



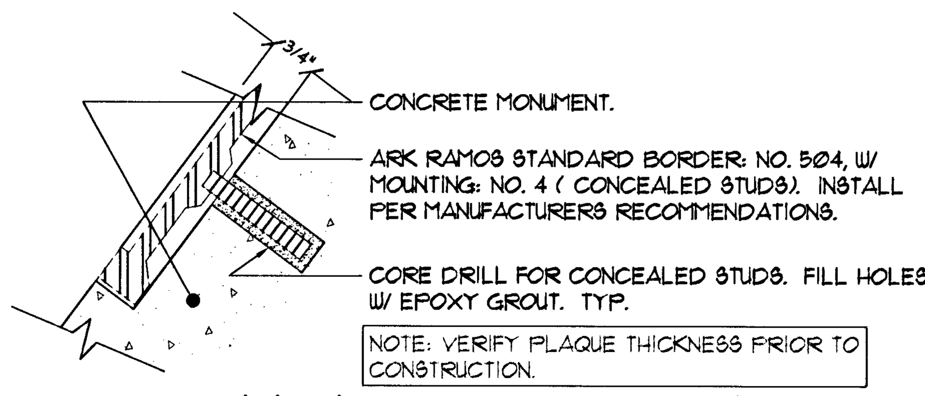
Elevations 3/4" CHAMFERED EDGES AT ALL EXPOSED 90 DEGREE EDGES. U.N.O.



Plan View 3/4" CHAMFERED EDGES AT ALL EXPOSED 90 DEGREE EDGES. U.N.O.

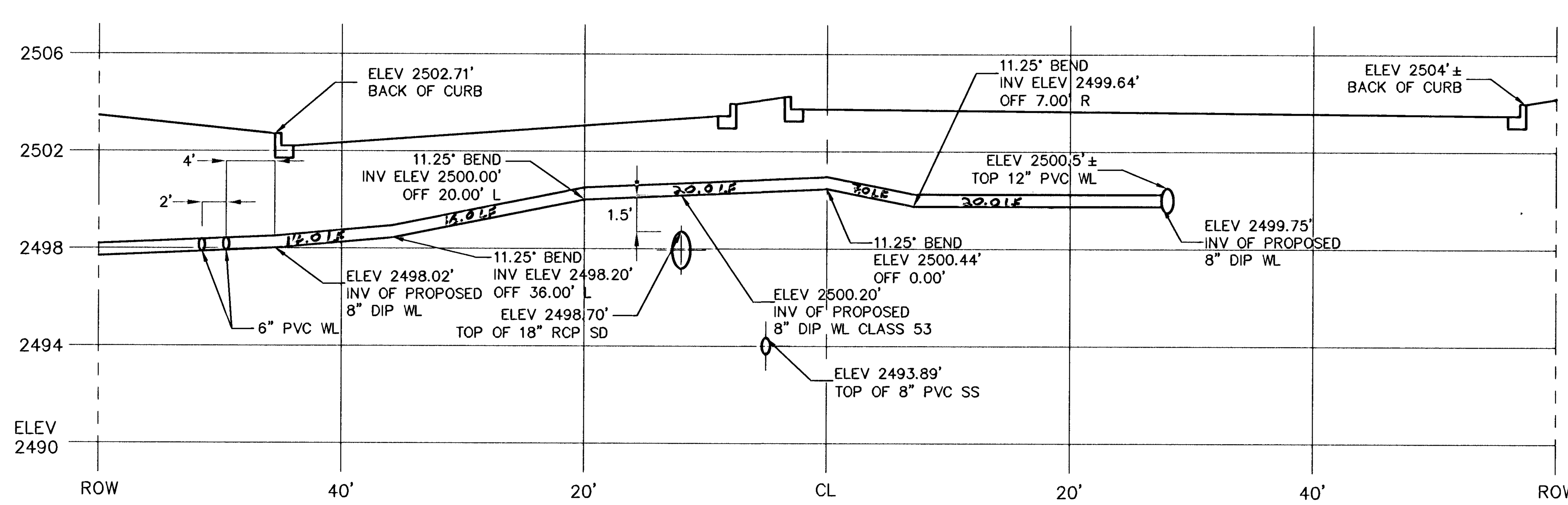


Section @ Concrete Monument



Recessed Edge @ Bronze Plaque

1/DT-4 DEDICATION PLAQUE MONUMENT DETAILS N.T.S.



2/DT-4 DURANGO UTILITY PROFILE DETAIL N.T.S.

APPROVALS:

LAS VEGAS VALLEY WATER DISTRICT PROJECT #115108 DATE 5-23-08

JOBSITE SAFETY

1. THE ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER AND/OR ARCHITECT SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY OF ANY PERSON.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

SAFETY ALERT
Call Before You Overhead
1-702-227-2929

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND
Call before you UnderGround
1-702-229-6331
CITY OF LAS VEGAS TRAFFIC OPERATIONS AND
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT

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2080 E. Flamingo Road, Suite 210, Las Vegas, NV 89119
Ph. (702) 734-5666 Fax (702) 735-4949

DURANGO/RILEY PARK PHASE I
NE CORNER OF EL CAPITAN AND BRIGHT ANGEL
GENERAL STRUCTURAL NOTES, DURANGO UTILITY PROFILE, AND PLAQUE MONUMENT DETAILS

STAMP
MICHAEL COLETY
Exp 12/31/08
C.N.E. No. 14493
5/9/08

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	KJK/CJB
FILE	
DATE	APRIL 2008
SCALE	NONE
BID NO	07.15341.16
CLV DWG NO	650.100
	H#26759
SHT NO	DT-4

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