

DS #: 4538

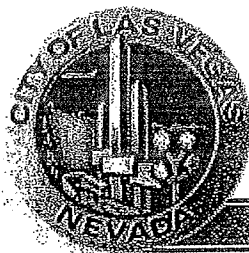
APN: 125-20-216-006

PROJECT: Steinberg Diagnostic Medical Imaging (SDMI)

SUBMITTAL: Supplemental

SCANNED BY/DATE: _____

CHECKED BY/DATE: _____



CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		March 21, 2012
TO: Land Development Services Department of Public Works		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	COPIES TO:	
Drainage Study for:	CivilWorks Inc.	
Steinberg Diagnostic Medical Imaging (SDMI)		
Cross Streets:	SWQ of Durango Dr. & Hitt Center Court	SDMI Centennial Hills LLC
File Number:	F:\Depot\DSMemos\DS4538C.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-20-216-006	
Zoning Action:	SDR-44327	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	11/23/2011	11/29/2011	Not Approved	\$400.00	267144: \$400
2 nd Submittal	2/27/2012	3/12/2012	Not Approved	\$400.00	275599: \$400
Supplemental	3/15/2012	3/21/2012	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):				\$800.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies and traffic impact analysis submittals to be accompanied by an electronic copy of the submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. This may be more than one file if necessary. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file. The new submittal requirement is effective on **July 1, 2011**. If there are any questions regarding these new requirements, please contact Albert Sung in the Flood Section at (702) 229-2001 or Rick Schroder in Traffic Engineering at (702) 229-6327.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent"

to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

NOTE: This drainage study assumes that the project will be constructed in one phase. If improvement plans are submitted to break the project into separate phases, a drainage study update will be required for each phase addressing the interim condition.

END OF REMARKS

ays

T/R/S: T19S/R60E/20
AREA G-20

**SUPPLEMENT #1 TO ADDENDUM #1 OF THE
UPDATE TO THE TECHNICAL DRAINAGE
STUDY FOR
STEINBERG DIAGNOSTIC
MEDICAL IMAGING
(SDMI)
AT
DURANGO DR. & HITT FAMILY CT.**

Project No. 104011013.00

March 2012

Rec'd: 3/15/12

DS 4538

G-20

N/C

Supp. Info.

Prepared for:

TKC Design, PC
9225 W. Flamingo Road, Suite #100
Las Vegas, NV 89147
Contact: John Darin
PHONE: (702) 228-9551

Prepared by:

CivilWorks Inc
Engineering with "sensible" solutions tailored to your "specific" needs.

4945 W. Patrick Lane Las Vegas, NV 89118
Office: (702) 534-7555 Fax: (702) 534-1825

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: STEINBERG DIAGNOSTIC MEDICAL IMAGING (SDMI) Date: 15~~th~~ MARCH · 2012

Location of Development: a) Descriptive (Cross Streets) North/South: DURANGO DRIVE

East/West: HITT CENTER COURT

b) Section: 20 Township: 19S Range: 60E

c) APN: 125-20-216-006

Name of Owner: SDMI CENTENNIAL HILLS LLC

Telephone No.: _____ Fax No.: _____ E-Mail Address: _____

Address: 6925 N. DURANGO DRIVE, LAS VEGAS, NV 89149

Contact Person-Name: JENNIFER NUESCA Telephone No.: 534-1827

* E-Mail Address: JKN@CIVILWORKSONLINE.COM Fax No.: 534-1825

Firm: CIVILWORKS, INC.

Address: 4445 W. PATRICK LANE LAS VEGAS, NV 89118

Type of Land Development/Land Disturbance Process:

☐ Rezoning	☐ Subdivision Map	☐ Clearing and Grading Only
☐ Parcel Map	☐ Planned Unit Development	☐ Other (Please specify below)
☐ Large Parcel Map	☒ Building Permit	

1. Total Owned Land Area: At Site: 1.48 Being Developed/Disturbed: 1.48

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☐ Yes** ☒ No

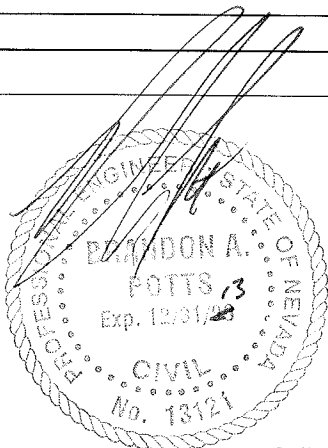
4. Proposed type of development (Residential, Commercial, Etc.): COMMERCIAL

5. Approximate upstream land area which drains to the subject site: +/- 1.25-ACRES

6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: CLV DS 4352

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: SOUTHEAST CORNER

8. Briefly describe your proposed schedule for the subject project: ASAP



Engineer's Seal

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

*New Required Field

**Review and concurrence of the Clark County Regional Flood Control District is required.

	Revision	Date

Local Entity File No. _____

REFERENCE:

STANDARD FORM 1

March 15, 2012

Albert Sung, P.E.

City of Las Vegas Public Works Department – Flood Control Section
333 N. Rancho Drive
Las Vegas, NV 89106

Re: Supplement #1 to Addendum #1 to the Update for Steinberg Diagnostic Medical Imaging @ Durango Dr. & Hitt Family Ct.

Dear Mr. Albert Sung,

This letter is in response to the drainage study review comments for the Technical Drainage Study Update for Steinberg Diagnostic Medical Imaging dated February 27, 2012. The comments have been reiterated below along with the corresponding responses.

Comment 1: Per the hydraulic calculations provided, the 100-year flow depth in the proposed concrete valley gutter along the west boundary wall is 0.21'. With reference to Section C/C7, during a major storm event, the flow will not be contained in the concrete gutter and will spill over into the adjacent parking spaces. Revise the valley gutter to a U-channel which will contain the 100-year flow. Revise the hydraulic calculations accordingly.

Response 1: The 2' valley gutter has been replaced with a 2' U-channel. The Grading Plan and Detail Sheet have been revised to reflect this change. In addition, the hydraulic calculations have been revised accordingly. See Appendix for FlowMaster models.

Comment 2: Label the existing public drainage easement (privately maintained) with recorded document or map number on the grading plan.

Response 2: The existing public drainage easement has been labeled accordingly.

Comment 3: Label an existing storm drain system in Hitt Center Court with City of Las Vegas recorded drawing number on the Grading Plan.

Response 3: The existing storm drain system in Hitt Center Court has been labeled accordingly.

Comment 4: Firestone is constructing their development adjacent to the subject site to the east, show the proposed design of Firestone on the subject grading plan.

Response 4: The Firestone improvements have been shown on the Grading Plan.

CivilWorks Inc
Engineering with "sensible" solutions tailored to your "specific" needs.

4945 W. Patrick Lane Las Vegas, NV 89118
Office: (702) 534-7555 Fax: (702) 534-1825

Comment 5: A proposed retaining wall to the north of the north parking stall appears to be frozen on the grading plan in the last submittal. Show the proposed retaining wall in the next submittal.

Response 5: The northern retaining wall has been shown on the Grading Plan.

Comment 6: Sheet C7: Revise Typical Sections C and D per Comment #1 accordingly.

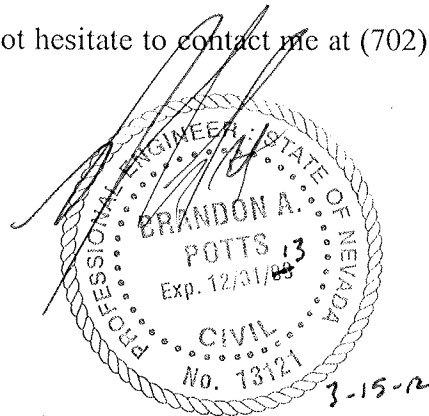
Response 6: Details for Sections C and D have been revised to reflect the changes per Comment #1.

If you have any questions or concerns, please do not hesitate to contact me at (702) 534-1827.

Sincerely,



Jennifer K. Nuesca, E.I.
Civil EIT



Brandon A. Potts, P.E.
Principal Engineer

CivilWorksInc
Engineering with "sensible" solutions tailored to your "specific" needs.

4945 W. Patrick Lane Las Vegas, NV 89118
Office: (702) 534-7555 Fax: (702) 534-1825

APPENDIX

COMMENT LETTER

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: March 12, 2012
TO: Land Development Services Department of Public Works		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	
	Steinberg Diagnostic Medical Imaging (SDMI)	
Cross Streets:	SWQ of Durango Dr. & Hitt Center Court	
File Number:	F:\Depot\DSMemos\DS4538B.doc	
Parcel Number:	125-20-216-006	
Zoning Action:	SDR-44327	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X
COPIES TO:		CivilWorks Inc.
		SDMI Centennial Hills LLC
		Bart Anderson, P.E., DevCo

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- Label the existing public drainage easement (privately maintained) with recorded document or map number on the grading plan.
- Second request: Label an existing storm drain system in *Hitt Center Court* with *City of Las Vegas* recorded drawing number on the grading plan.
- Second request: *Firestone* is constructing their development adjacent to the subject site to the east, show the proposed design of *Firestone* on the subject grading plan.
- A proposed retaining wall to the north of the north parking stall appears to be frozen on the grading plan in the last submittal. Show the proposed retaining wall in the next submittal.
- Sheet C7:** Revise Typical Sections C and D per Comment #1 accordingly.

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies and traffic impact analysis submittals to be accompanied by an electronic copy of the

submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. This may be more than one file if necessary. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file. The new submittal requirement is effective on **July 1, 2011**. If there are any questions regarding these new requirements, please contact Albert Sung in the Flood Section at (702) 229-2001 or Rick Schroder in Traffic Engineering at (702) 229-6327.

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END OF REMARKS
ays

T/R/S: T19S/R60E/20
AREA G-20

HYDRAULIC ANALYSES

FlowMaster Cross Sections

2' U-CHANNEL

Worksheet for Irregular Channel

Project Description	
Project File	x:\2011 projects\104011013.00 sdmi building @ durango & hitt\08 - phase 2\supp to up
Worksheet	2' U-CHANNEL
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data				
Channel Slope		0.024000 ft/ft		
Elevation range: -0.04 ft to 0.50 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	0.50	0.00	2.00	0.013
0.00	0.00			
1.00	-0.04			
2.00	0.00			
2.00	0.50			
Discharge	2.00	cfs		

Results		
Wtd. Mannings Coefficient	0.013	
Water Surface Elevation	0.17	ft
Flow Area	0.38	ft ²
Wetted Perimeter	2.34	ft
Top Width	2.00	ft
Height	0.21	ft
Critical Depth	0.29	ft
Critical Slope	0.005113	ft/ft
Velocity	5.27	ft/s
Velocity Head	0.43	ft
Specific Energy	0.60	ft
Froude Number	2.13	
Flow is supercritical.		

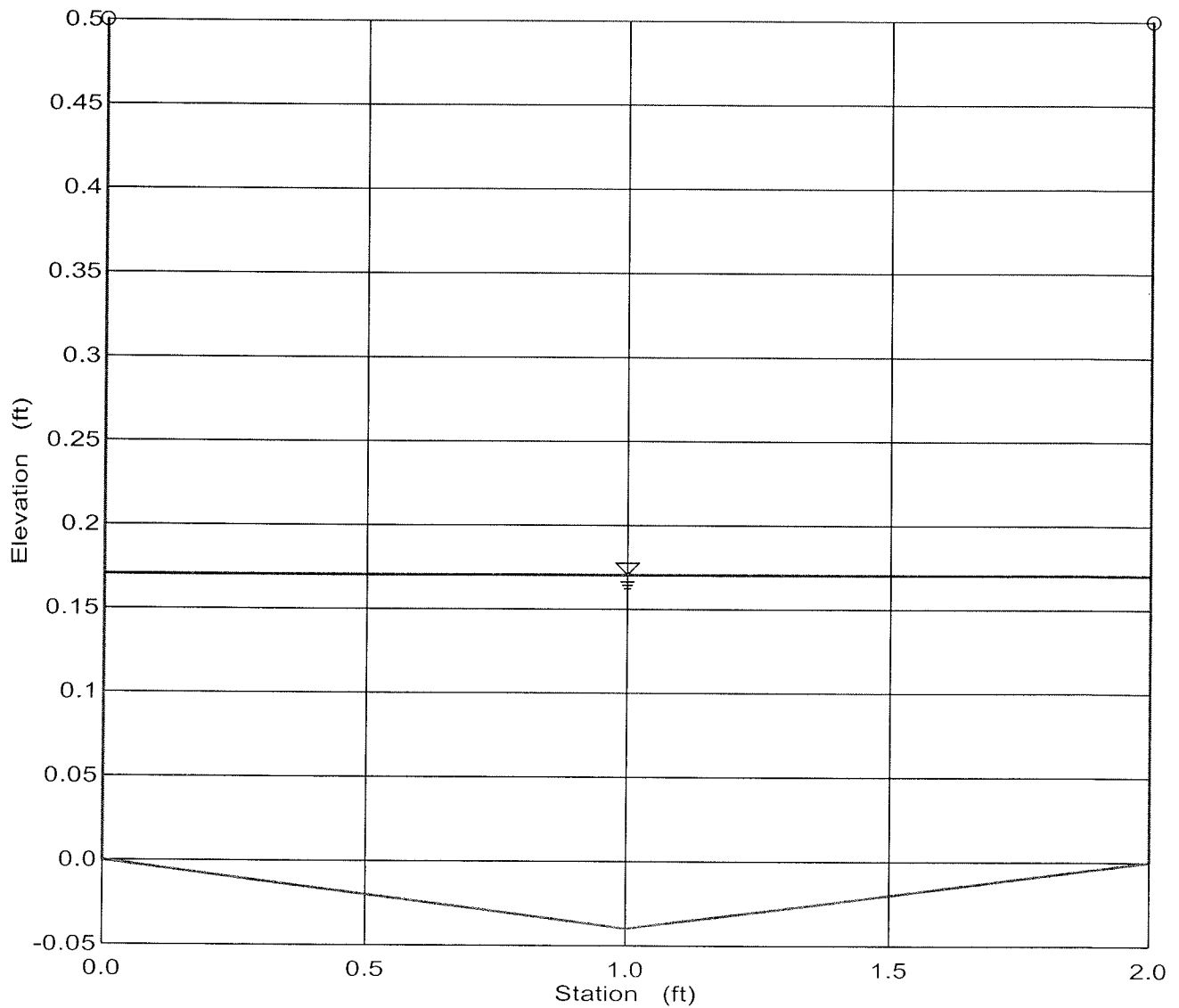
2' U-CHANNEL
Cross Section for Irregular Channel

Project Description

Project File	x:\2011 projects\104011013.00 sdmi building @ durango & hitt\08 - phase 2\supp to up
Worksheet	2' U-CHANNEL
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data

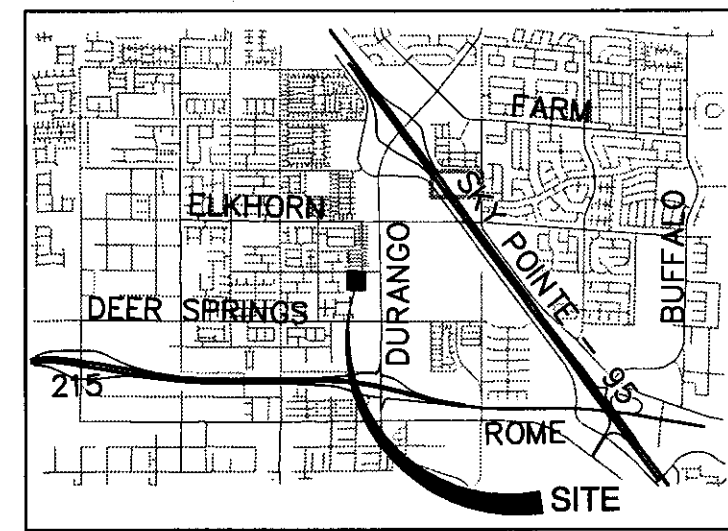
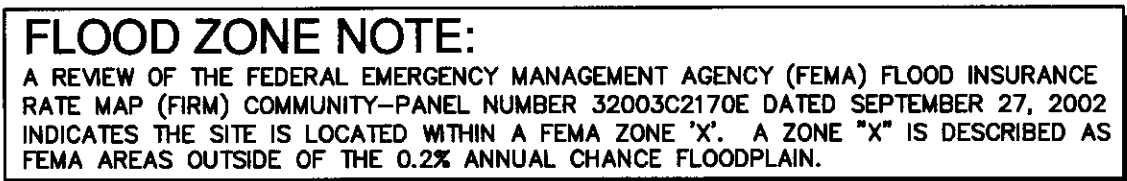
Wtd. Mannings Coefficient	0.013
Channel Slope	0.024000 ft/ft
Water Surface Elevation	0.17 ft
Discharge	2.00 cfs



PLANS

Grading Plan
Detail Sheet

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
UTILITIES		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11.25" ELBOW		
22.5" ELBOW		
45' ELBOW		
90' ELBOW		
CROSS		
TEE		
MANHOLES		
ELECTRICAL		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
STREET LIGHTS		
100W HPS STL.		
150W HPS STL.		
200W HPS STL.		
250W HPS STL.		
400W HPS STL.		
GRADING		
SPOT ELEV.	(12.3±)	12.3±
SLOPE	(1.2%)	1.23%
5' CONT.	(2005)	2005
1' CONT.		2007
SITE		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PAVT.		
WALL		
LINE TYPES		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT OF WAY LINE		
EASEMENT LINE		
SAWCUT LINE		
FLOW LINE		
SHADES		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		



VICINITY MAP
T 20S R 60E S19

CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH
"CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
(C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY
HAVING JURISDICTION.
- NOT ALL NOTES USED ON THIS SHEET -

- 1 INSTALL AC PAVEMENT PER DETAIL ON SHEET C7.
- 2 SAWCUT AND MATCH EXISTING AC.
- 3 INSTALL CONCRETE PAVEMENT DETAIL ON SHEET C7.
- 4 INSTALL 'A' TYPE CURB PER C.C.A.U.S.D. No. 219.
- 5 INSTALL 3' VALLEY GUTTER PER DETAIL ON SHEET C7.
- 6 INSTALL CONCRETE SIDEWALK PER C.C.A.U.S.D. No. 234 (MIN 2.0% CROSS SLOPE).
- 7 INSTALL TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS.
- 8 INSTALL BUMPER CURB PER C.C.A.U.S.D. No. 238.
- 9 MATCH EXISTING CURB
- 10 INSTALL "L" TYPE CURB PER C.C.A.U.S.D. No. 219.
- 11 INSTALL RAMP AND HANDRAIL PER ADA STANDARDS.
- 12 INSTALL "O" FACE CURB PER C.C.A.U.S.D. No. 219.
- 13 INSTALL RETAINING WALL PER STRUCTURAL DETAILS.
- 14 INSTALL RESERVED PARKING SIGN PER DETAIL ON SHEET C7
- 15 MATCH EXISTING GRADES.
- 16 INSTALL SIDEWALK RAMP PER DETAIL ON SHEET C7.
- 17 INSTALL SIDEWALK DRAIN PER C.C.A.U.S.D. No. 238.
- 18 INSTALL 2' U-CHANNEL PER DETAIL ON SHEET C7.
- 19 INSTALL BLOCK WALL PER DETAIL ON SHEET C7.
- 20 INSTALL BLOCK WALL OPENING PER DETAIL ON SHEET C7.

GEO/TECHNICAL NOTE:

A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE-DESIGN EXPLORATION AND TESTING.

GRADING PLAN CERTIFICATION

NAME: BRANDON POTTS PE #13121 DATE: _____

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH
APPROVED DRAINAGE STUDY DS4442 FOR THIS SITE ON FILE
AT CITY OF LAS VEGAS FOR THIS PROJECT.

GRADING NOTES:

1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT ARE BEING DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON PLANS. EXCAVATION QUANTITIES, STRUCTURE BACKFILL, AND EROSION CONTROL SHOULD BE INCLUDED IN THE COST OF THE WORK, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL NOTIFY CIVILWORKS INC WITHIN 24 HOURS OF QUESTIONS AND/OR ERRORS DISCOVERED ON PLANS. CIVILWORKS INC WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

BASIS OF BEARING

SOUTH 89°54'17" WEST, BEING THE SOUTH LINE OF THE
SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER
(NW 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 60
EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA,
AS SHOWN BY MAP THEREOF ON FILE IN BOOK 41, THIS
PLATS, PAGE 9 IN THE CLARK COUNTY RECORDER'S OFFICE,
CLARK COUNTY, NEVADA.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: 5LV9020C
RIVET AND PLATE IN TOP OF CURB • SW COR
DURANGO DR. & DEER SPRINGS.

ELEV. = 784.5668 (METRIC)
2574.03 (US SURVEY FEET)

Avoid overhead power line accidents. It's easy.



Call before you OVERHEAD

1-702-593-6111

Call before you
cable, drilling, or digging.



Call before you UnderGround

1-702-593-6111

CLAYTON'S CABLE SERVICES
1-702-593-6111

LAS VEGAS AREA COMPREHENSIVE SERVICE SYSTEM

CivilWorks Inc.
Engineering with "sensible" solutions tailored to your "specific" needs.

4945 W. Patrick Lane Las Vegas, NV 89118
Office#: (702)534-7555 Fax#: (702)534-1825

CONSULTANT LIST:

HHM Surveying Inc.⁴
PETER DEAN MARTIN OFFICE SUITE 101
LAS VEGAS, NEVADA 89139
OFFICE #: (702) 256-7850
FACSIMILE #: (702) 256-1710

STEINBERG IMAGING CENTER
AT DURANGO & HITT

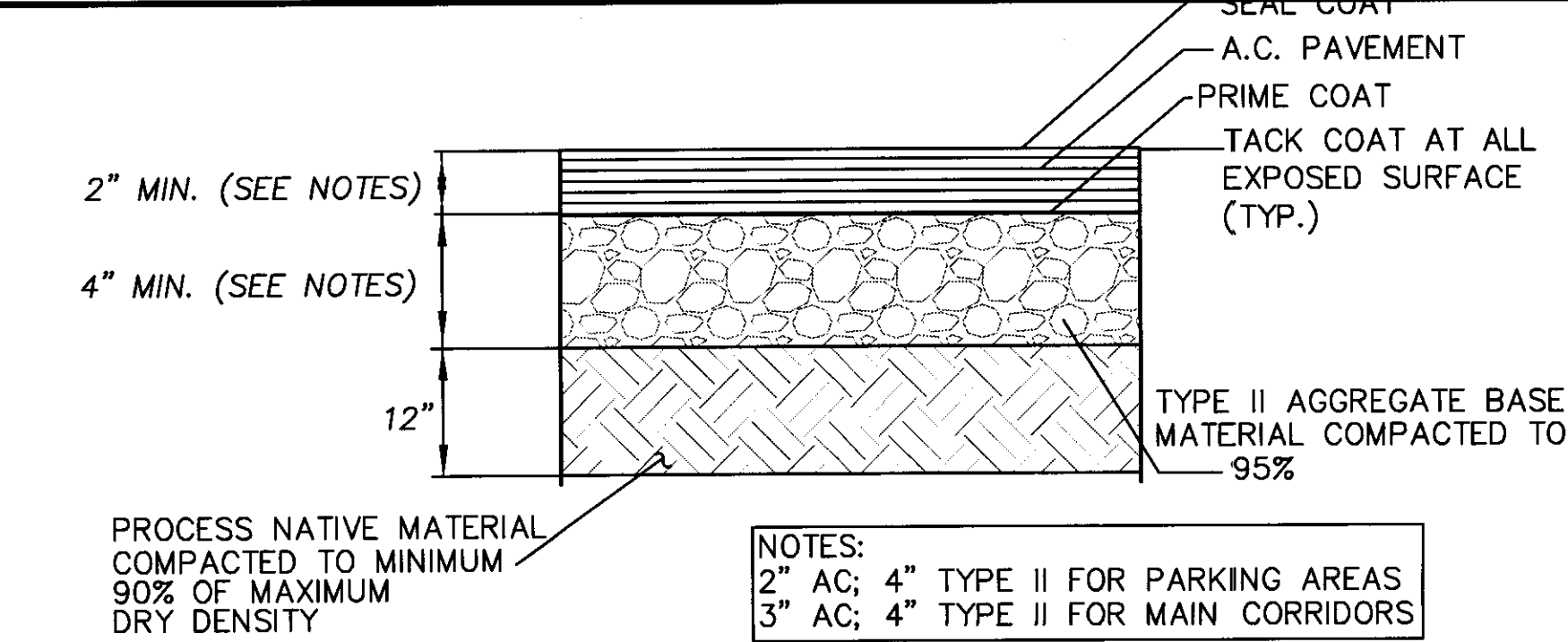
STEINBERG DIAGNOSTIC MEDICAL IMAGING
7301 PEAK DRIVE
LAS VEGAS, NV 89128
PHONE: 702-240-1232

DEVELOPER:

[illegible]

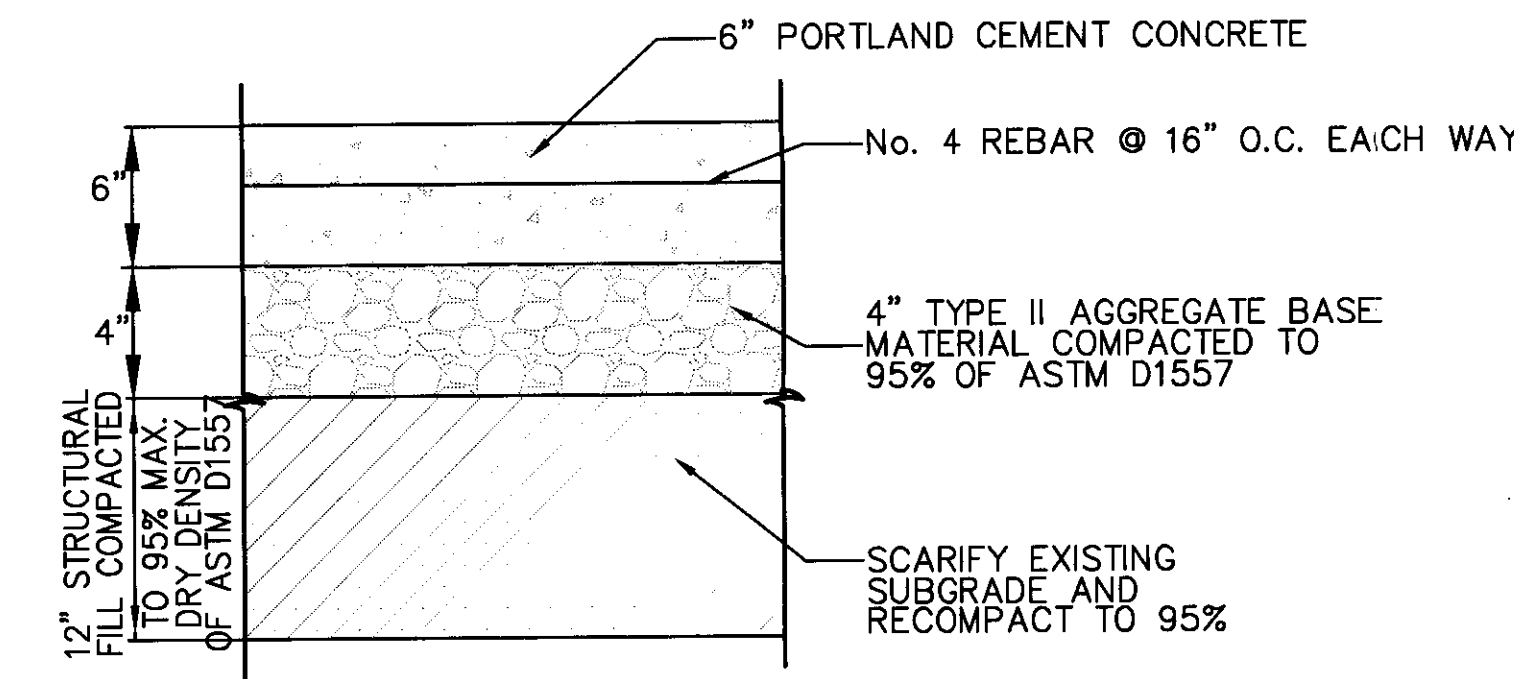
ABBREVIATIONS (SEE C.V.R. SHEET FOR COMPLETE LIST)		
AC	ADJUST	ADJUST
AGG	AGGREGATE	AGGREGATE
BCR	BACK OF CURB	BACK OF CURB
BEG	BEGINNING OF CURB RETURN	BEGINNING OF CURB RETURN
BEG	BEGIN	BEGIN
BSW	BACK OF SIDEWALK	BACK OF SIDEWALK
BVC	BEGINNING OF VERTICAL CURVE	BEGINNING OF VERTICAL CURVE
CATV	CABLE TV	CABLE TV
CCAU	CLARK COUNTY AREA	CLARK COUNTY AREA
CCD	CLARK COUNTY DISTRICT	CLARK COUNTY DISTRICT
CCFCD	CLARK COUNTY FLOOD CONTROL DISTRICT	CLARK COUNTY FLOOD CONTROL DISTRICT
CL	CENTERLINE	CENTERLINE
CLV	CITY OF LAS VEGAS	CITY OF LAS VEGAS
CMU	CONCRETE MASONRY UNIT	CONCRETE MASONRY UNIT
CO	CLEAN OUT	CLEAN OUT
COMM	COMMUNICATIONS	COMMUNICATIONS
COND	CONDUIT	CONDUIT
CULV	CULVERT	CULVERT
DC	DEPRESSED CURB	DEPRESSED CURB
DI	DROP INLET	DROP INLET
DIP	DUCTILE IRON PIPE	DUCTILE IRON PIPE
DOM	DOMESTIC	DOMESTIC
ELEC	ELECTRIC	ELECTRIC
EAC	EDGE OF AC	EDGE OF AC
EC	END OF CURVE	END OF CURVE
ECR	END OF CURB RETURN	END OF CURB RETURN
ELEV	ELEVATION	ELEVATION
EP	EDGE OF PAVEMENT	EDGE OF PAVEMENT
EVC	END OF VERTICAL CURVE	END OF VERTICAL CURVE
EX	EXISTING	EXISTING
FAST	FREWAY & ARTERIAL	FREWAY & ARTERIAL
FT	FINISH GRADE	FINISH GRADE
FG	FINISH GRADE	FINISH GRADE
FH	FIRE HYDRANT	FIRE HYDRANT
FL	FINISH GRADE	FINISH GRADE
FO	FINISH GRADE	FINISH GRADE
FS	FINISHED SURFACE	FINISHED SURFACE
GB	GRADE BREAK	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL	HEADWALL
HGL	HYDRAULIC GRADE LINE	HYDRAULIC GRADE LINE
HP	HIGH POINT	HIGH POINT
INV	INVERT	INVERT
IRR	IRRIGATION	IRRIGATION
LAT	LATERAL	LATERAL
LF	LINEAL FEET	LINEAL FEET
LS	LANDSCAPE	LANDSCAPE
LT	LEFT	LEFT
LVWD	LAS VEGAS VALLEY WATER DISTRICT	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM	MAXIMUM
MH	MANHOLE	MANHOLE
MIN	MINIMUM	MINIMUM
MTR	METER	METER
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	NEVADA DEPARTMENT OF TRANSPORTATION
PB	PULL BOX	PULL BOX
PL	PROPERTY LINE	PROPERTY LINE
PP	POWER POLE	POWER POLE
PROP	PROPOSED	PROPOSED
PVC	POLY VINYL CHLORIDE PIPE	POLY VINYL CHLORIDE PIPE
PVMT	PAVEMENT	PAVEMENT
RT	RIGHT	RIGHT
ROW	RIGHT-OF-WAY	RIGHT-OF-WAY
SS	SANITARY SEWER	SANITARY SEWER
SD	STORM DRAIN	STORM DRAIN
SNWA	SOUTHERN NEVADA WATER AUTHORITY	SOUTHERN NEVADA WATER AUTHORITY
STA	STATION	STATION
STLT	STREET LIGHT	STREET LIGHT
SVZ	SIGHT VISIBILITY ZONE	SIGHT VISIBILITY ZONE
SW	SIDEWALK	SIDEWALK
TEL	TELEPHONE	TELEPHONE
TC	TOP OF CURB	TOP OF CURB
TF	TOP OF FOOTING	TOP OF FOOTING
TF	TOP OF WALL	TOP OF WALL
TY	TYPICAL	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VG	VALLEY GUTTER	VALLEY GUTTER
WL	WATER LINE	WATER LINE

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
UTILITIES		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11.25' ELBOW		
22.5' ELBOW		
45' ELBOW		
90' ELBOW		
CROSS		
TEE		
MANHOLES		
ELECTRICAL		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
STREET LIGHTS		
100W HPS S.L.T.		
150W HPS S.L.T.		
200W HPS S.L.T.		
250W HPS S.L.T.		
400W HPS S.L.T.		
GRADING		
SPOT ELEV.	(12.34)	12.34
SLOPE	(1.2%)	1.2%
5' CONT.	(2005)	2005
1' CONT.	(2007)	2007
SITE		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PAVT		
WALL		
LINE TYPES		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT OF WAY LINE		
EASEMENT LINE		
SAWCUT LINE		
FLOW LINE		
SHADES		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		



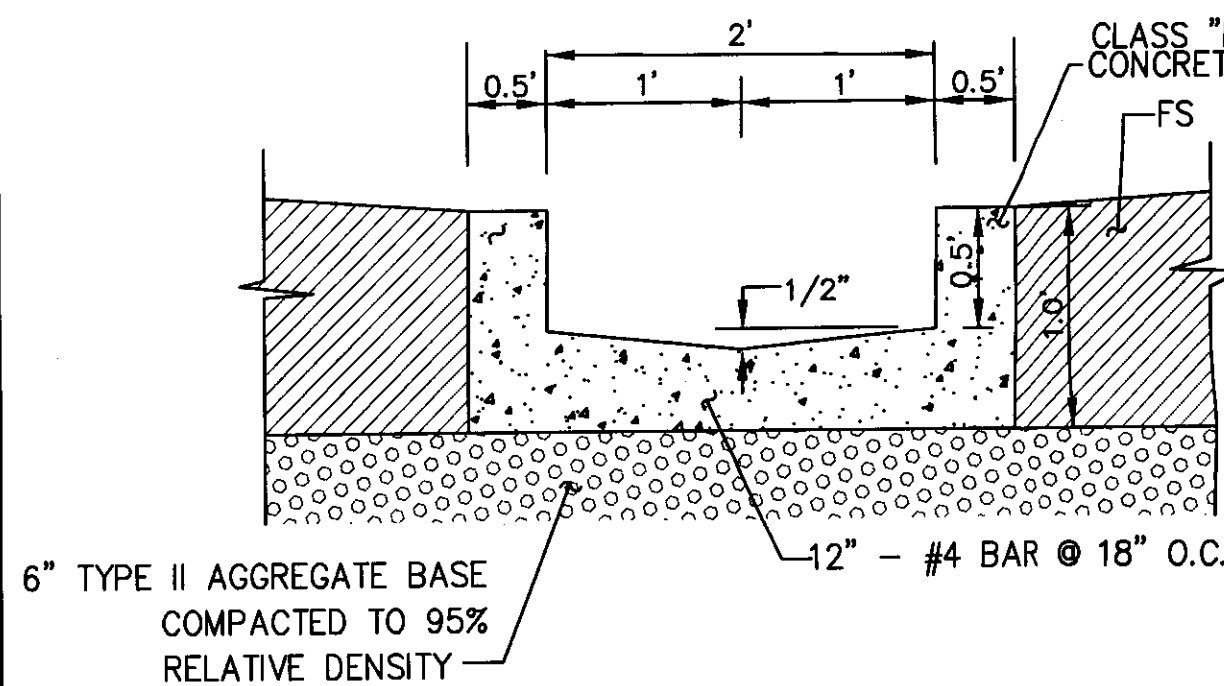
ONSITE AC PAVEMENT DETAIL

SCALE N.T.S.



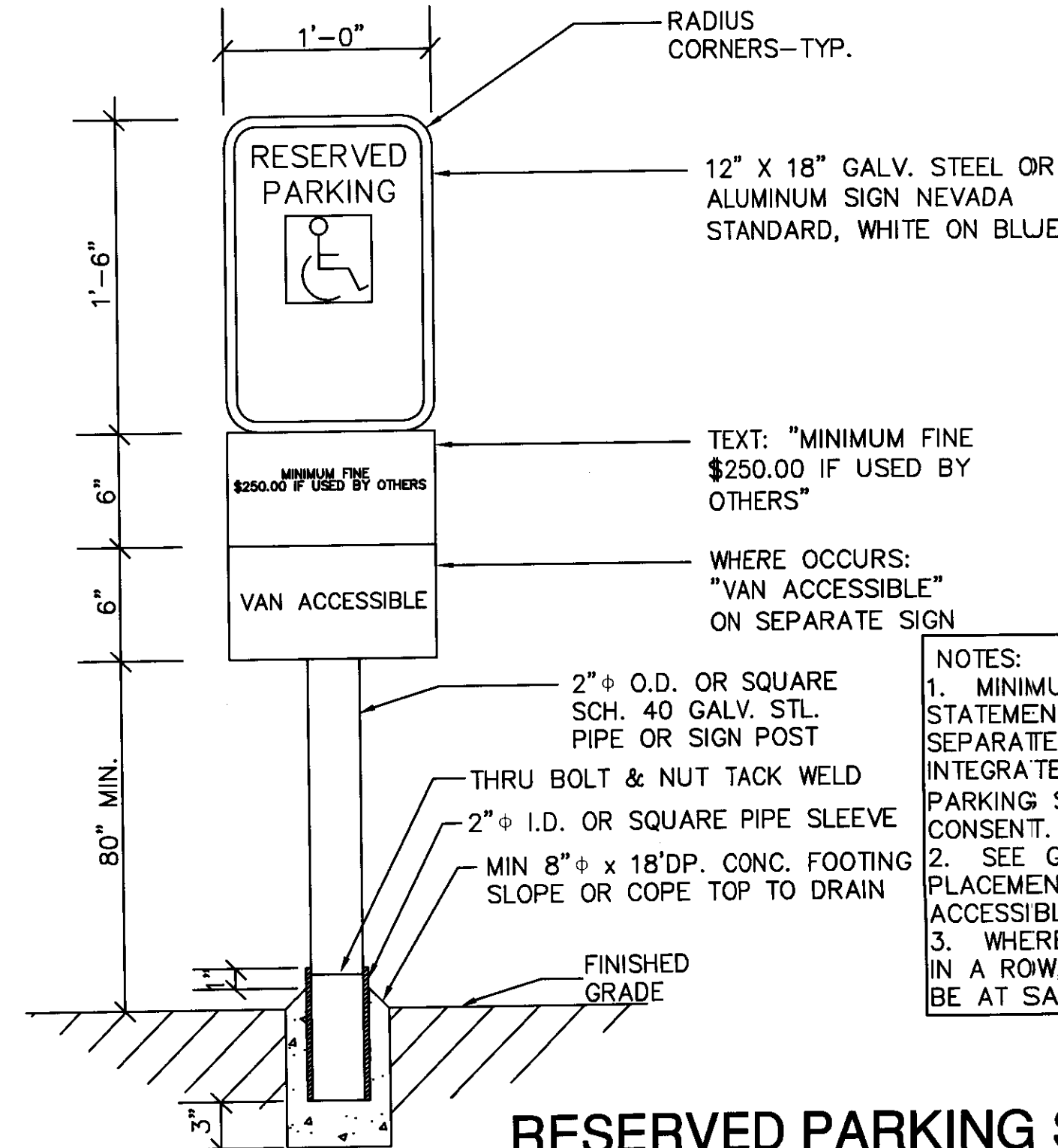
TRASH ENCLOSURE PAVEMENT DETAIL

SCALE N.T.S.



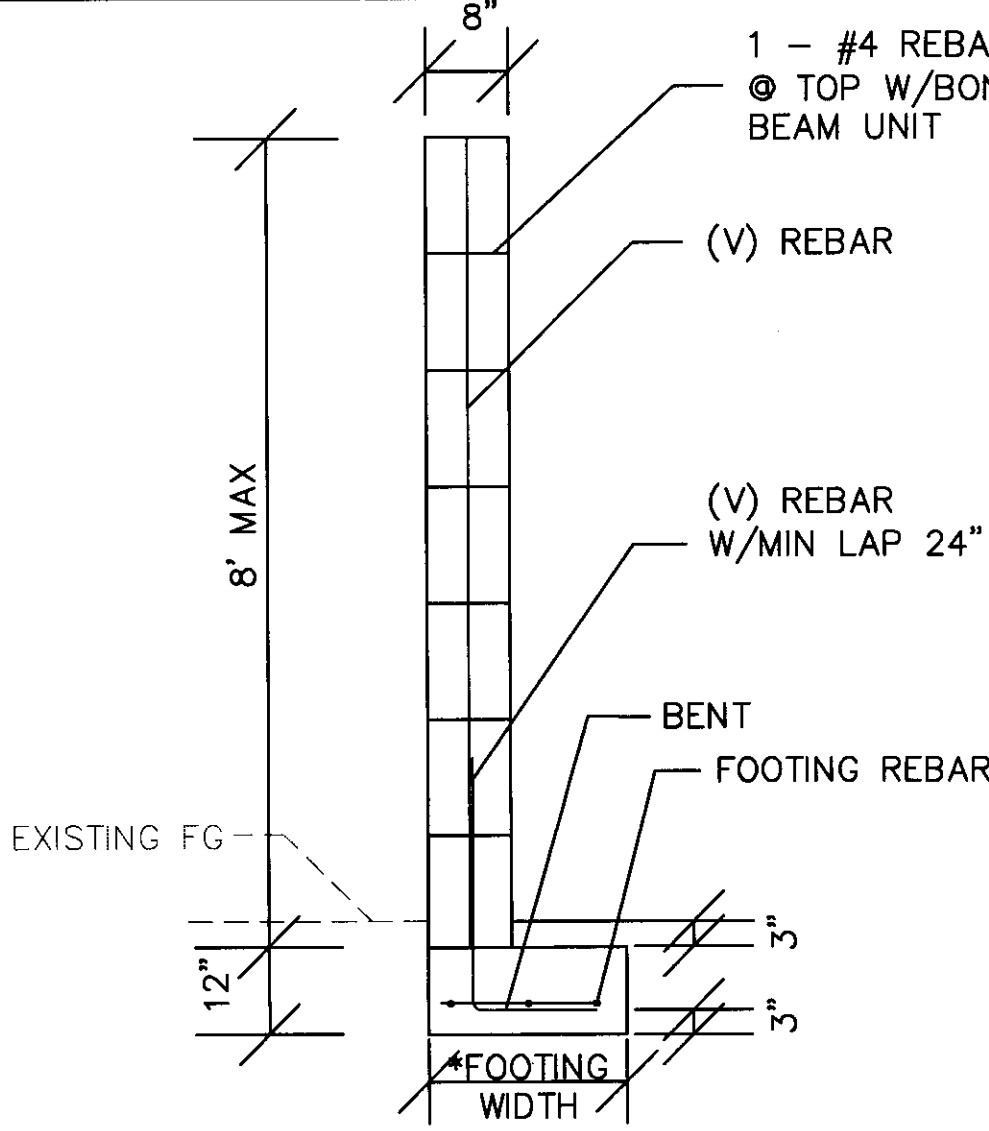
2' U-CHANNEL DETAIL

SCALE N.T.S.



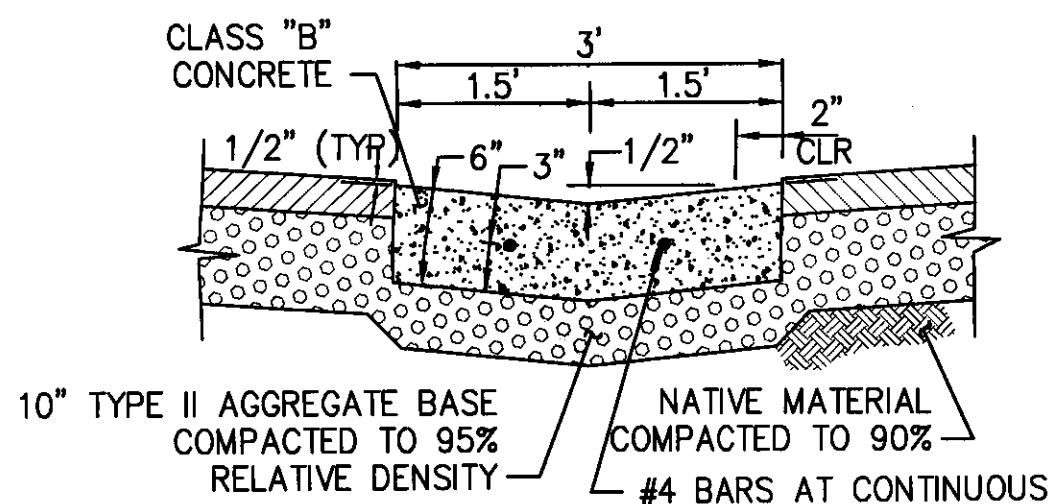
RESERVED PARKING SIGN

SCALE N.T.S.



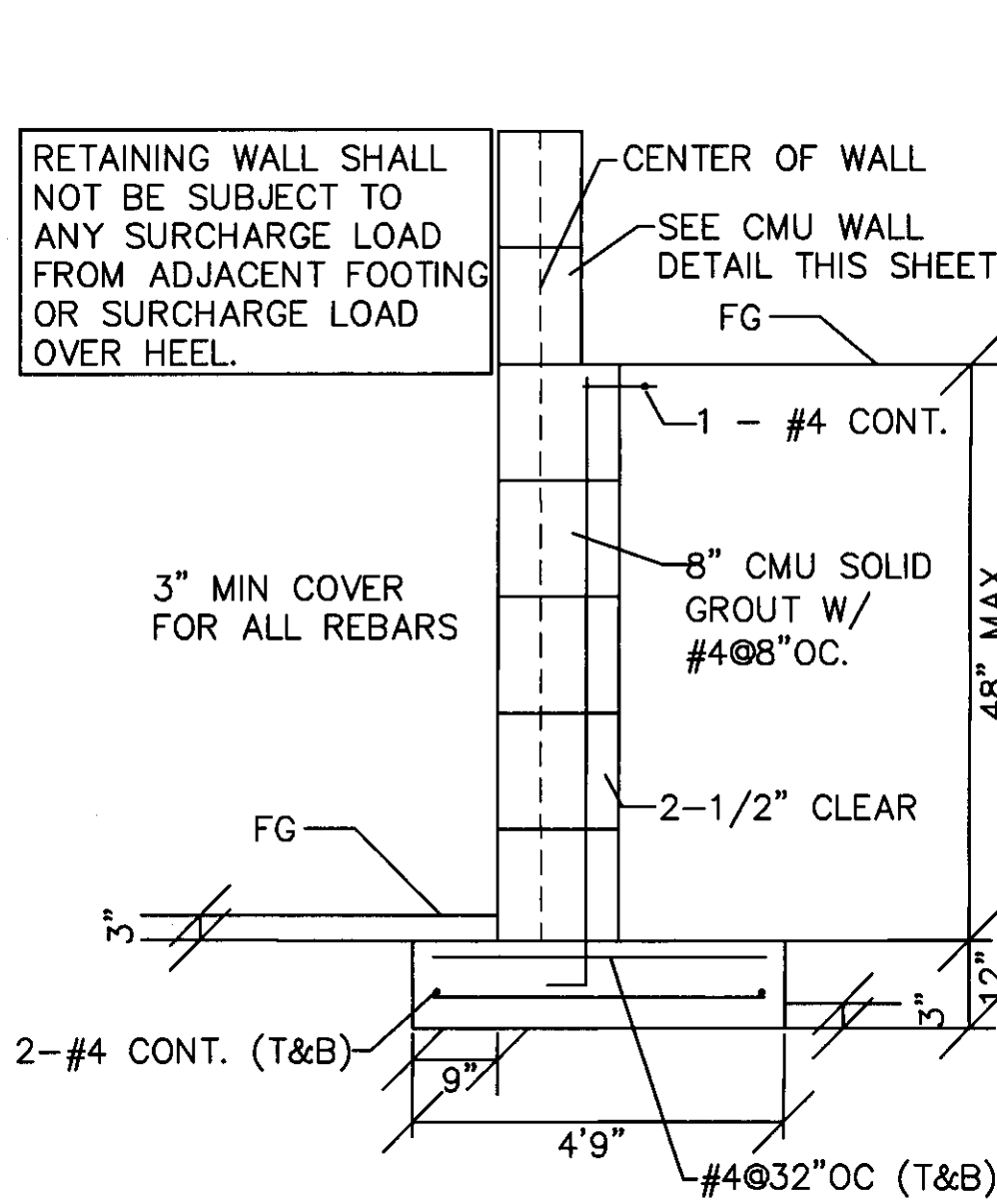
CMU WALL DETAIL

SCALE N.T.S.



3' VALLEY GUTTER DETAIL

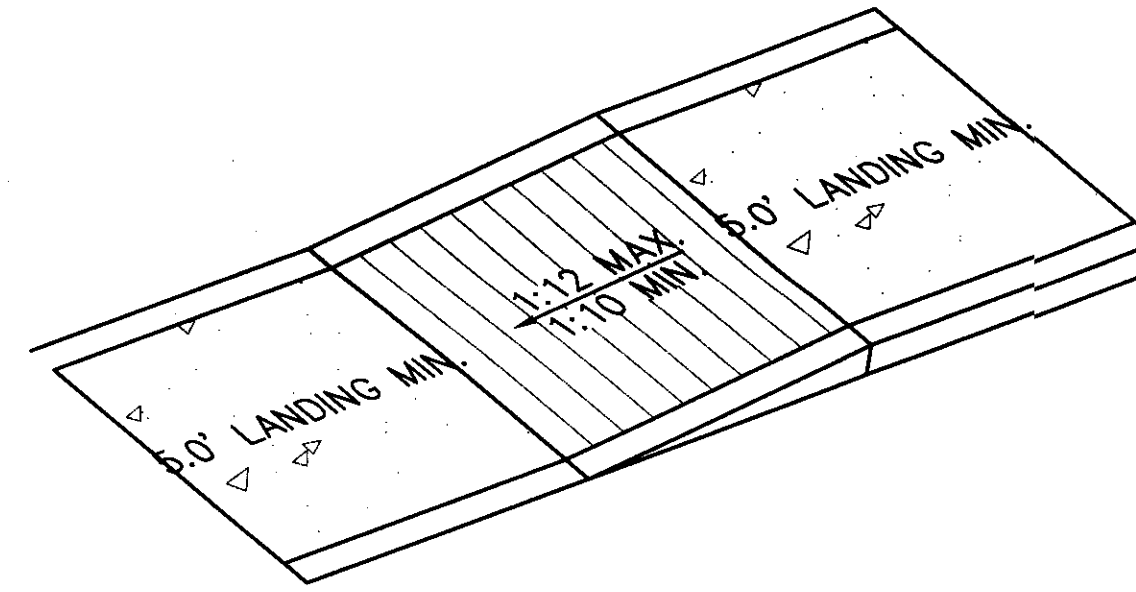
SCALE N.T.S.



REFER TO SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS \"MASONRY FENCES (RETAINING)\" DWG B-100-2

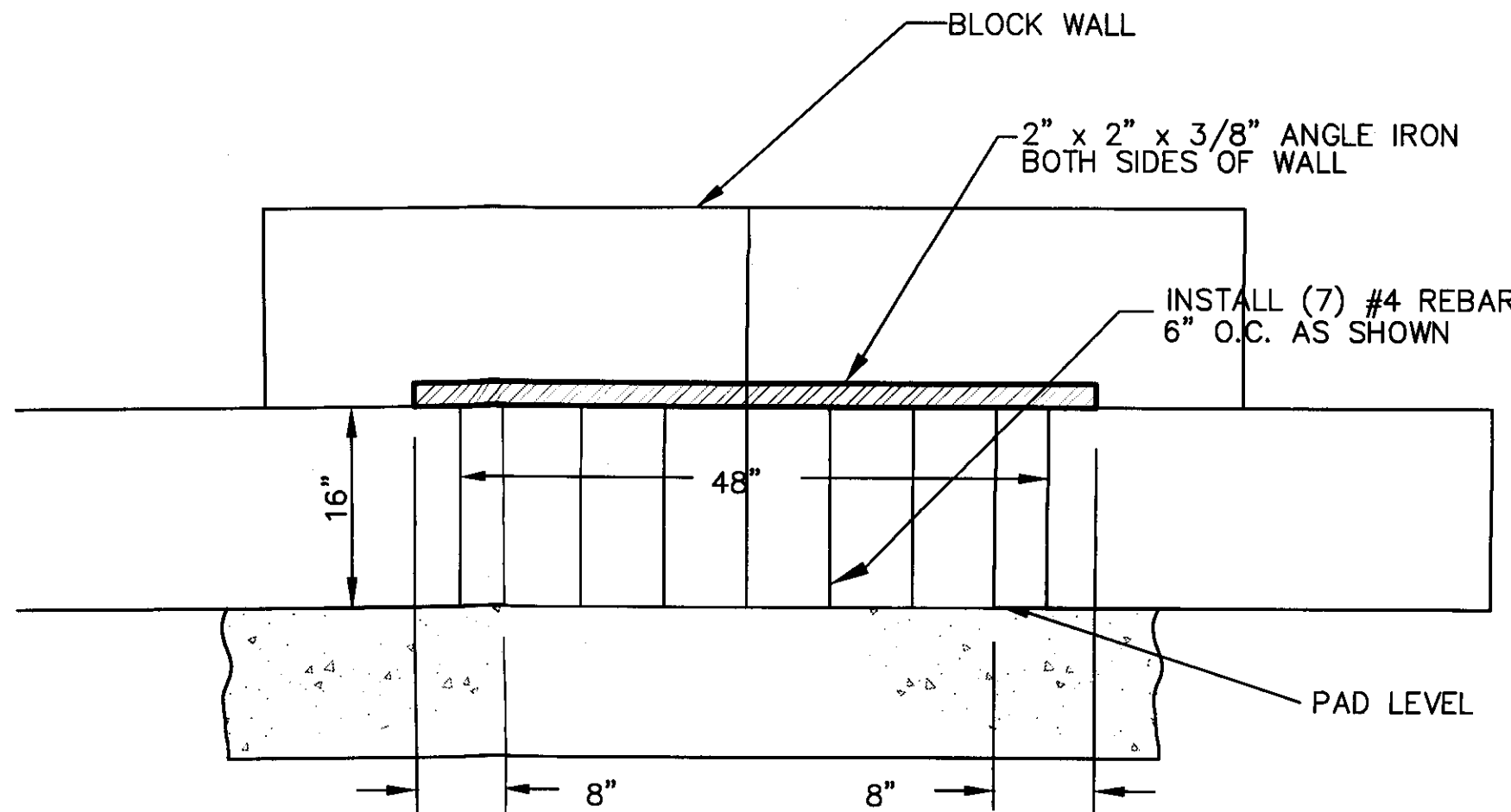
4' RETAINING WALL DETAIL

SCALE N.T.S.



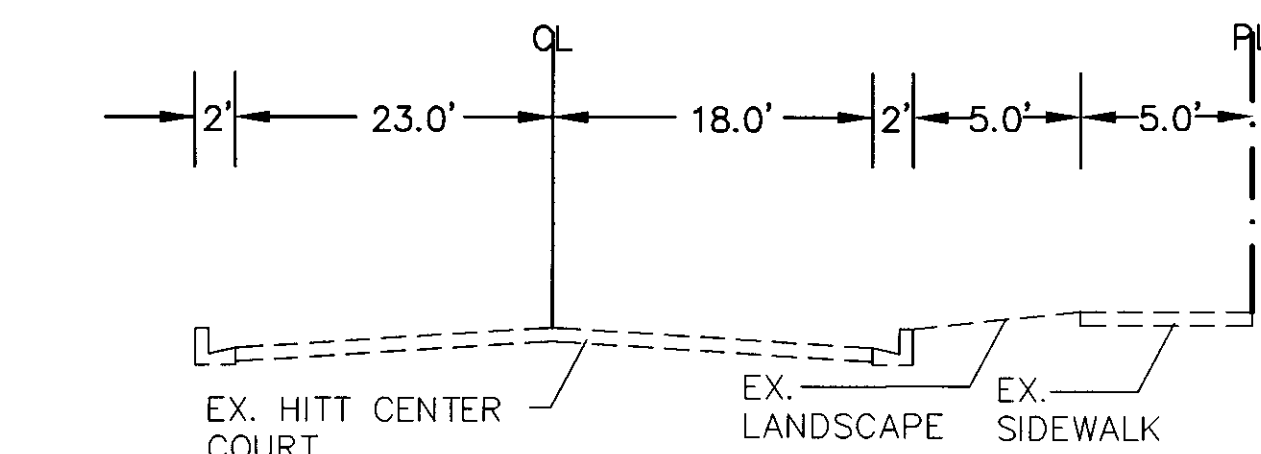
SIDEWALK RAMP DETAIL

SCALE N.T.S.



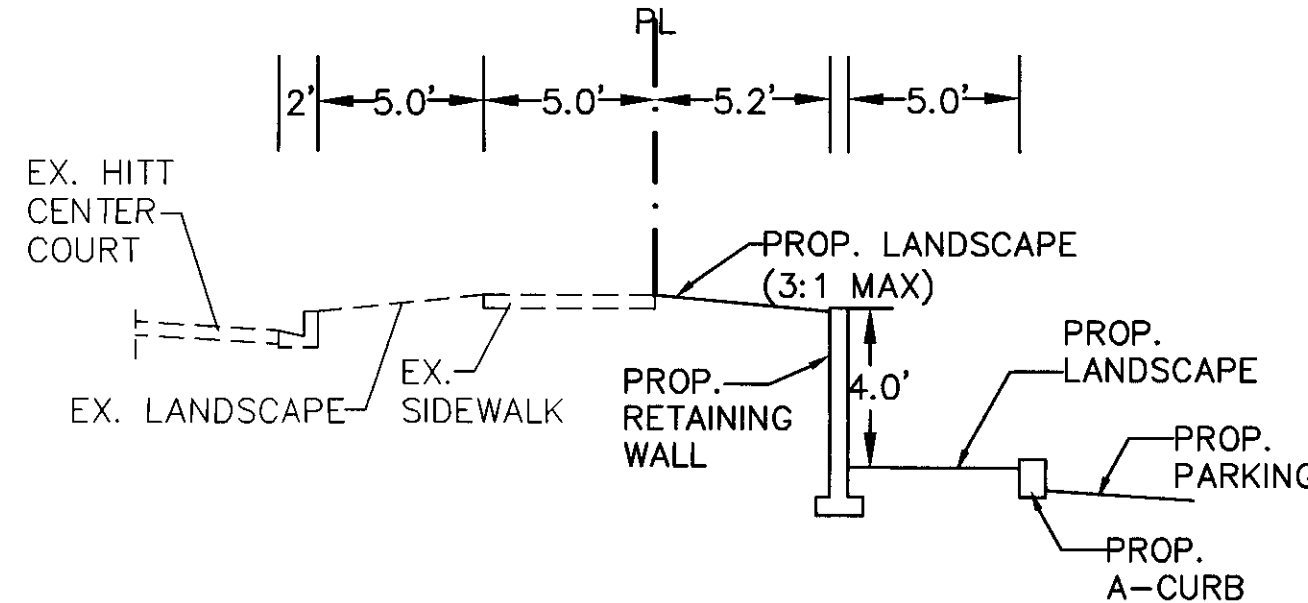
16\"/>

SCALE N.T.S.



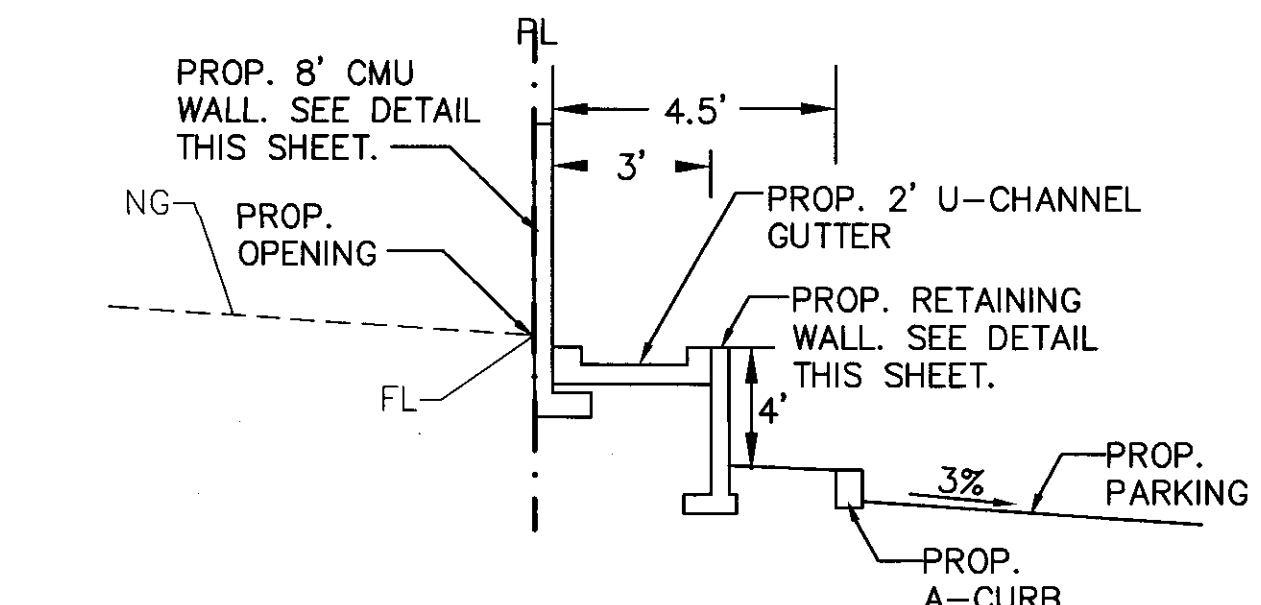
TYPICAL SECTION

SCALE N.T.S.



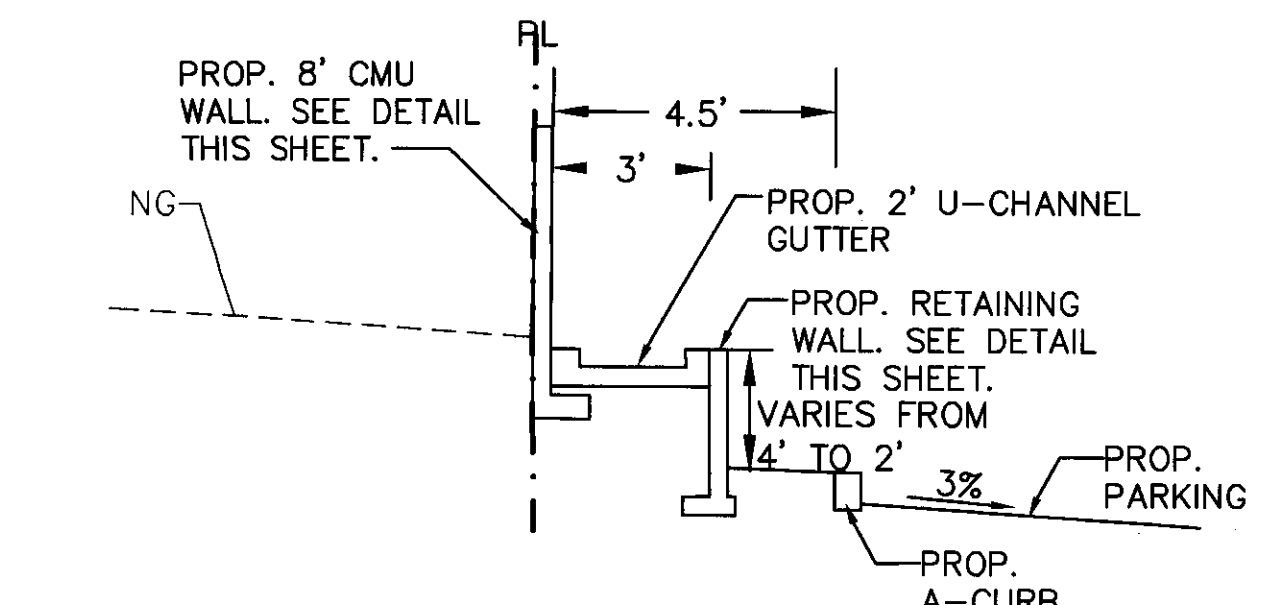
TYPICAL SECTION

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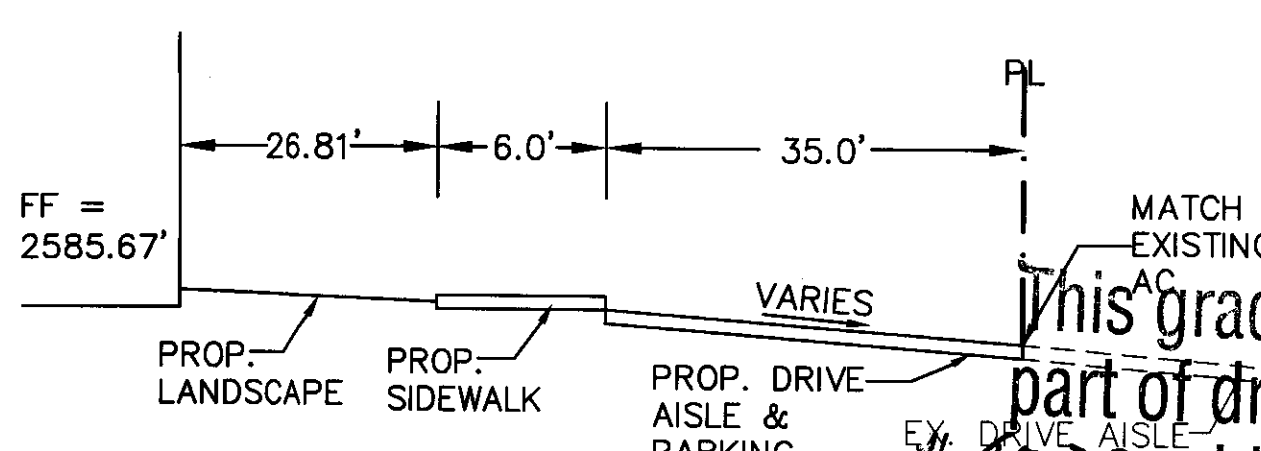
TYPICAL SECTION

SCALE N.T.S.



TYPICAL SECTION

SCALE N.T.S.



TYPICAL SECTION

SCALE N.T.S.



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DETAIL SHEET
C7
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