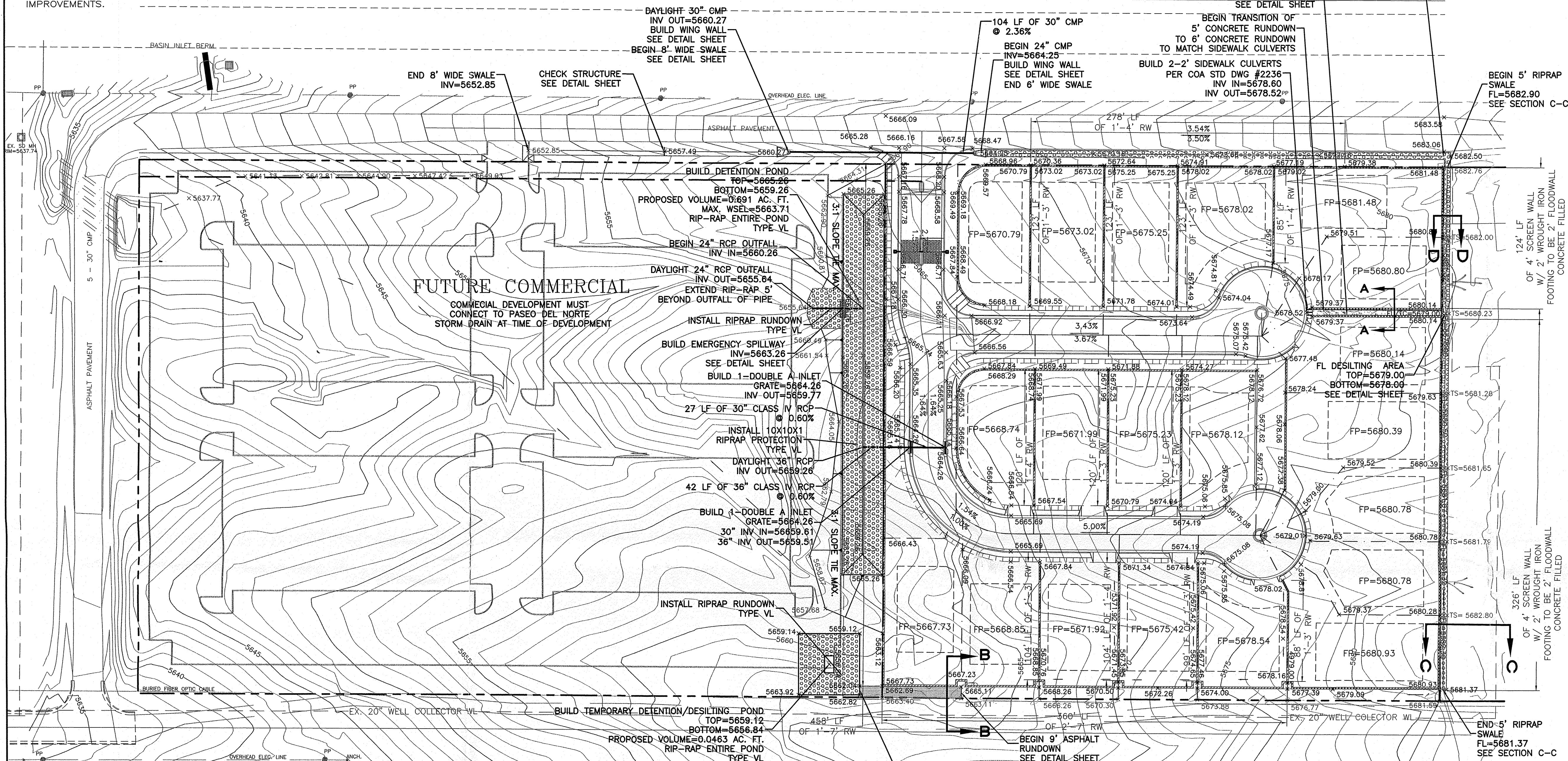
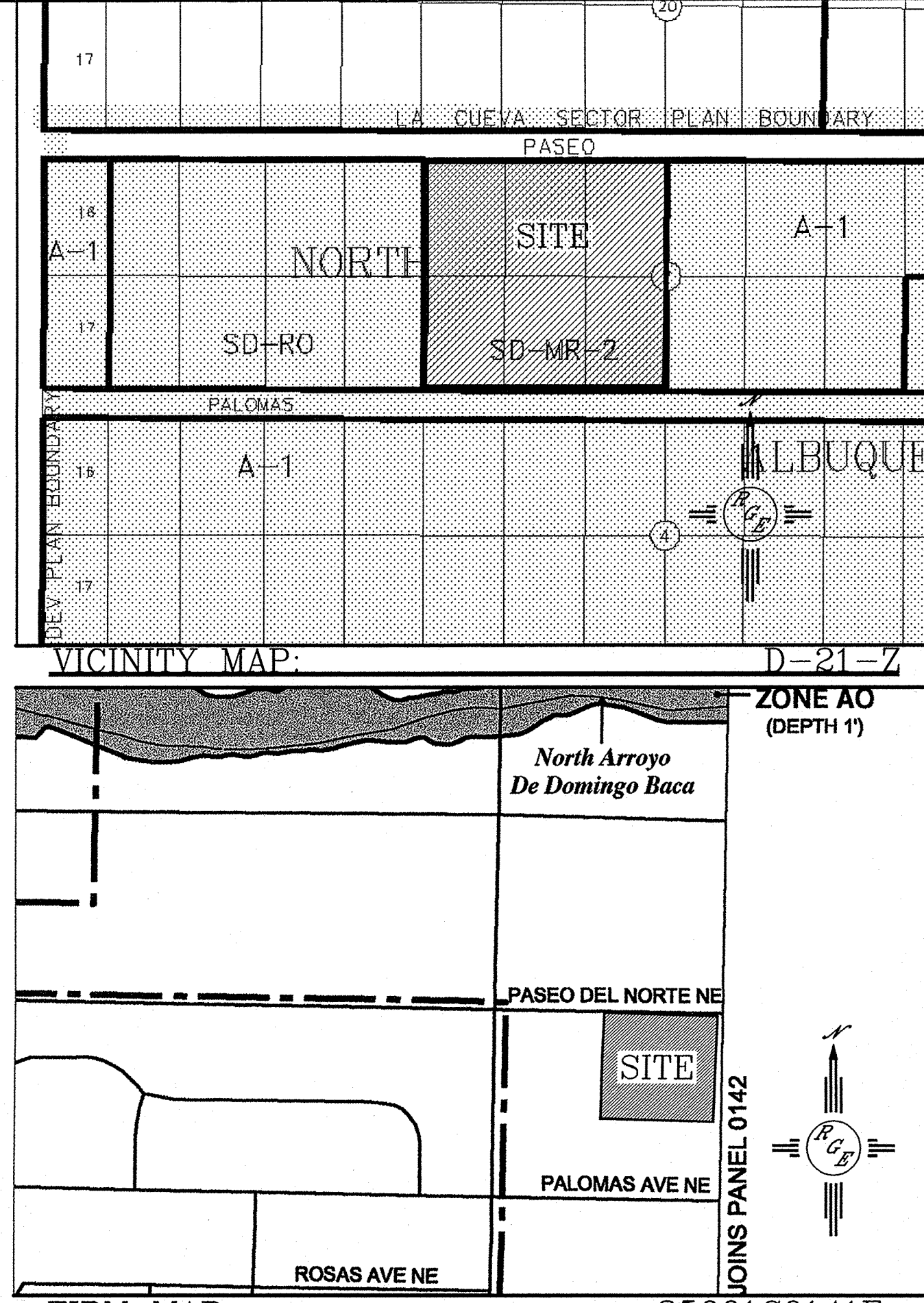


CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.



LEGEND

- EXISTING 12" CMP
- - - EXISTING FENCE
- ===== EXISTING CURB & GUTTER
- ===== PROPOSED CURB & GUTTER
- - - BOUNDARY LINE
- - - EASEMENT
- ===== PROPOSED PERIMETER WALL
- ===== PROPOSED RETAINING WALL
- 4994 EXISTING CONTOUR
- 4995 EXISTING INDEX CONTOUR
- FLOW ARROW
- FLOW LINE
- ▲ SLOPE TIE
- ▲ PROPOSED SPOT ELEVATION
- ▲ EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES
- SETBACK LINE
- EXISTING WATERLINE



FIRM MAP: 35001C0141F

LEGAL DESCRIPTION:
LOTS 9, 10, 11, 22, 23, 24
BLOCK 2, TRACT 3, UNIT 2, NORTH ALBUQUERQUE ACRES

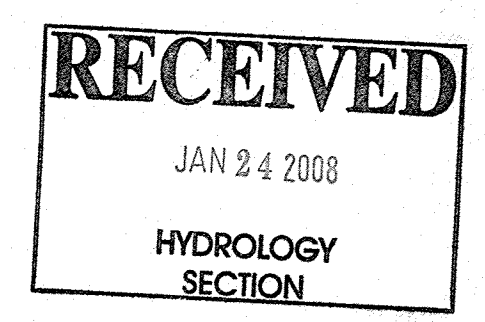
- NOTES:
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 - ALL CURB AND GUTTER TO BE STANDARD PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.
 - GRADING ON FUTURE COMMERCIAL SITE TO BE COORDINATED BETWEEN OWNERS.

EROSION CONTROL NOTES:

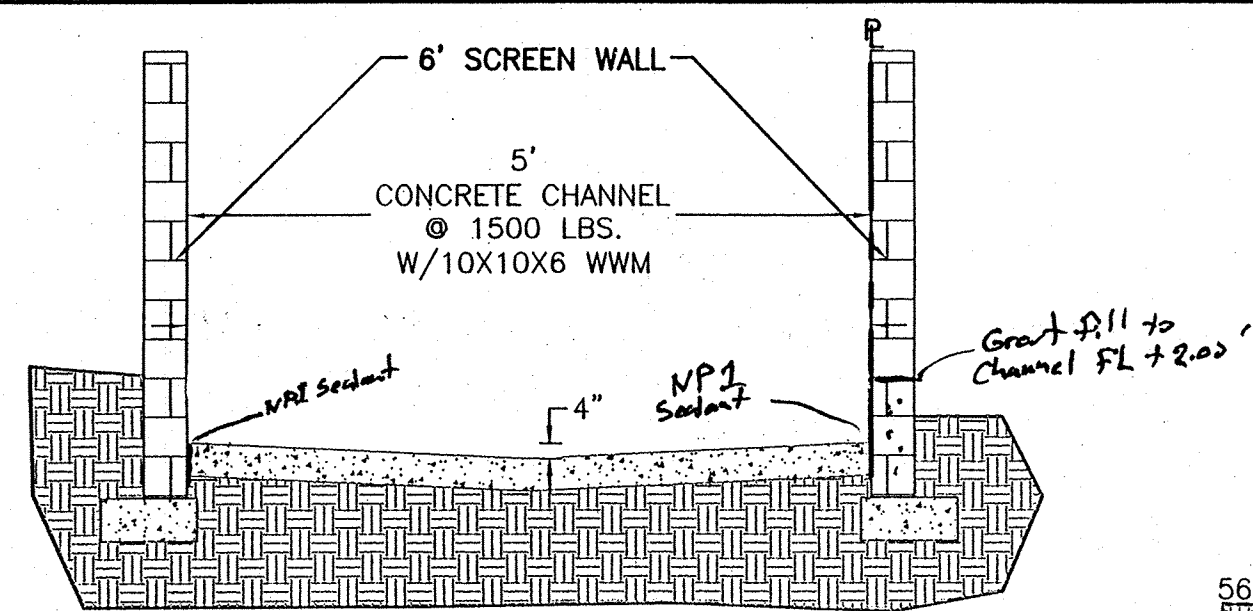
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

I DAVID SOULE, HAVE PERSONALLY INSPECTED THE PROPERTY ON 10-23-06. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE TOPO SHOWN.

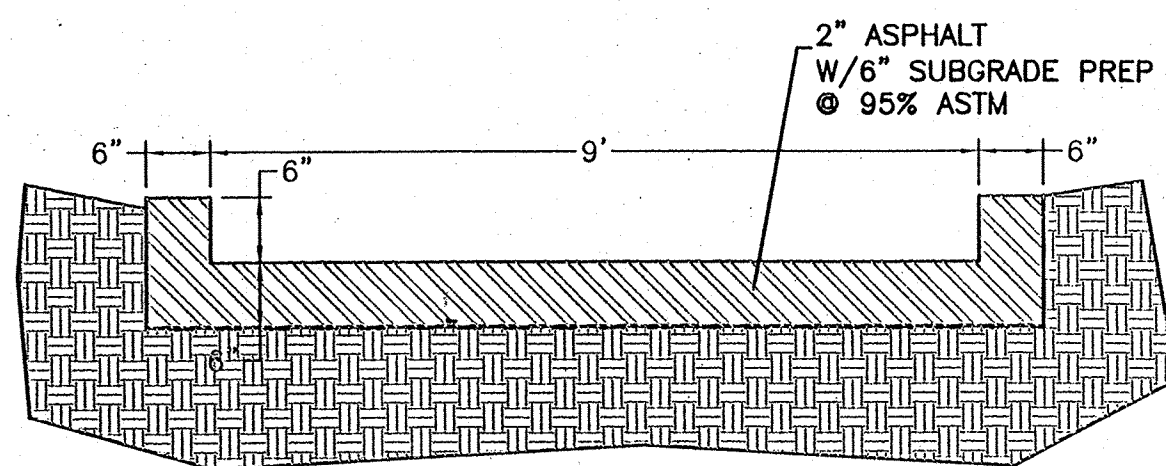
DAVID SOULE P.E. #14522 12/7/07 DATE



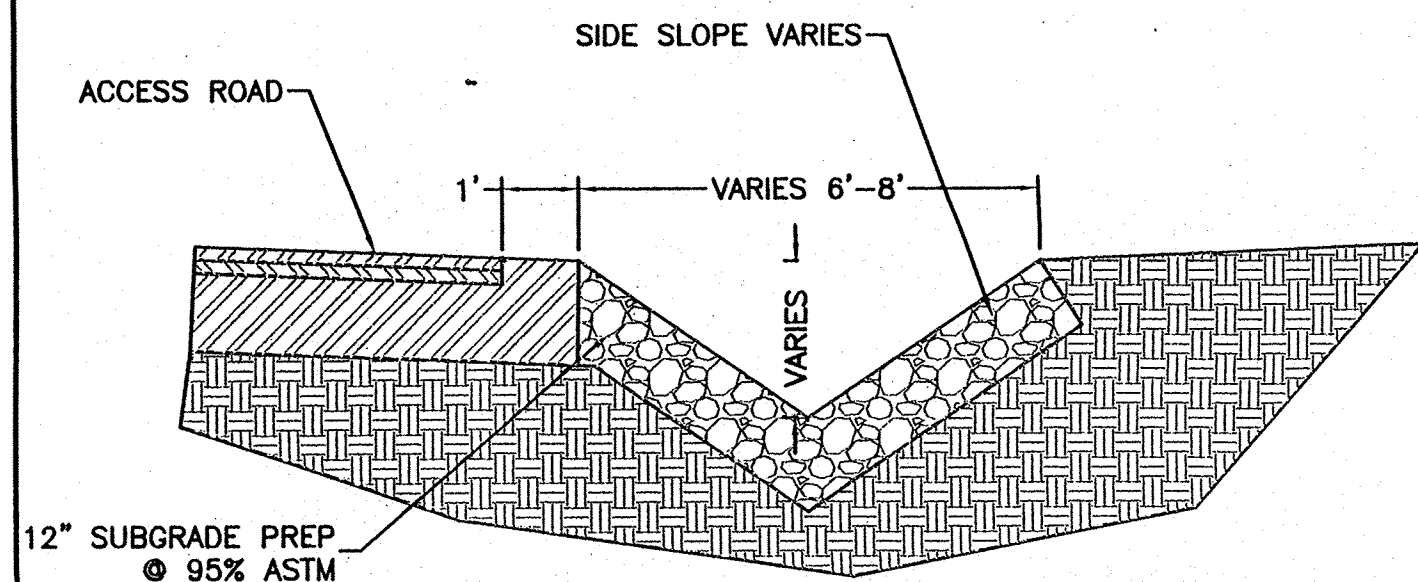
ROUGH GRADING APPROVAL		DATE
ENGINEER'S SEAL	CIELO ESTATES GRADING AND DRAINAGE PLAN	DRAWN BY WCWJ
DAVID SOULE NEW MEXICO P.E. #14522	Rio Grande Engineering 1806 CENTRAL AVENUE SE ALBUQUERQUE, NM 87106 (505) 872-0999	DATE 1-22-08
		2654-GR-3-19-07X
		SHEET # 1 C 2
		JOB # 2654



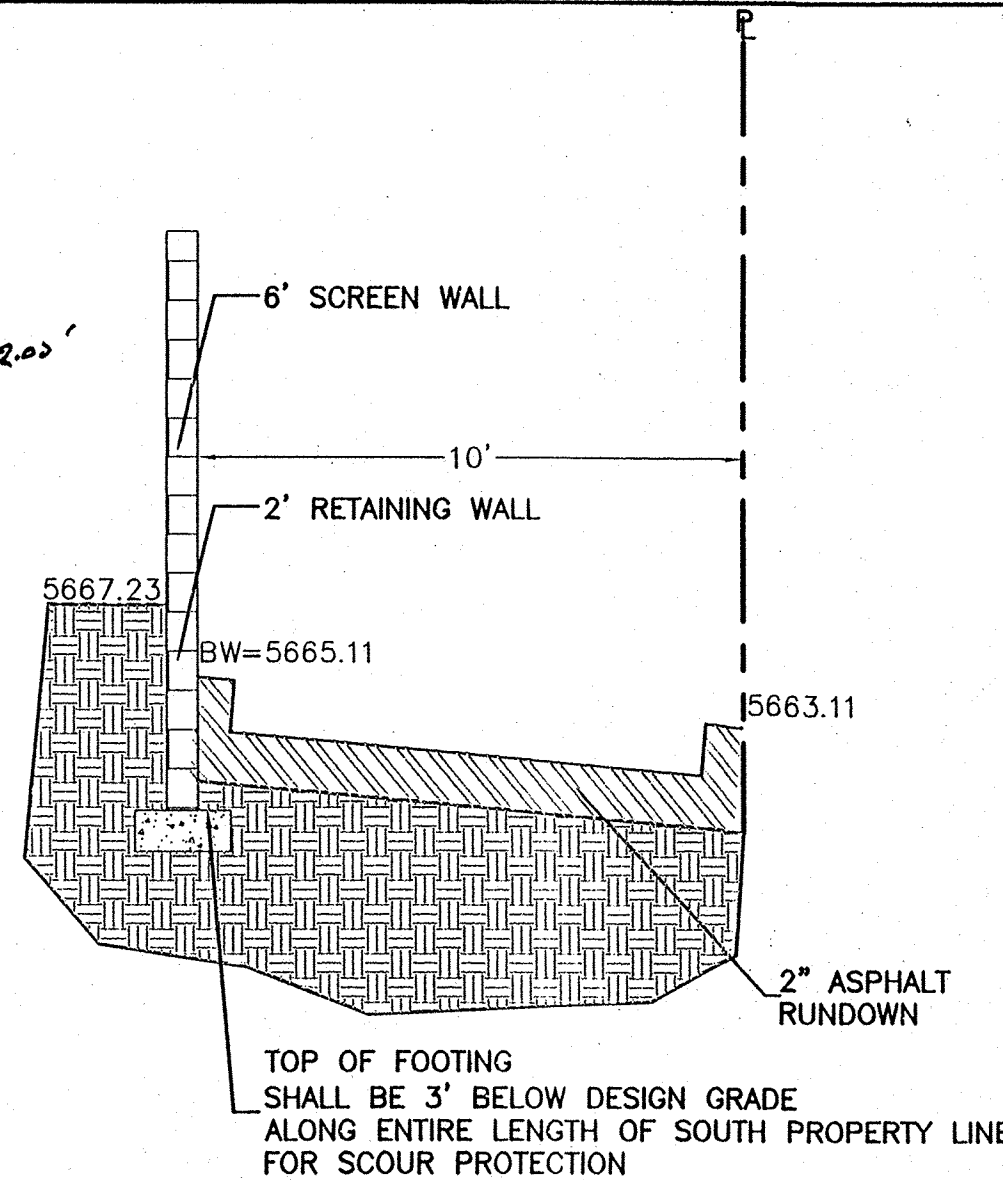
SECTION A-A
NTS-PER COA STD DWG #2260



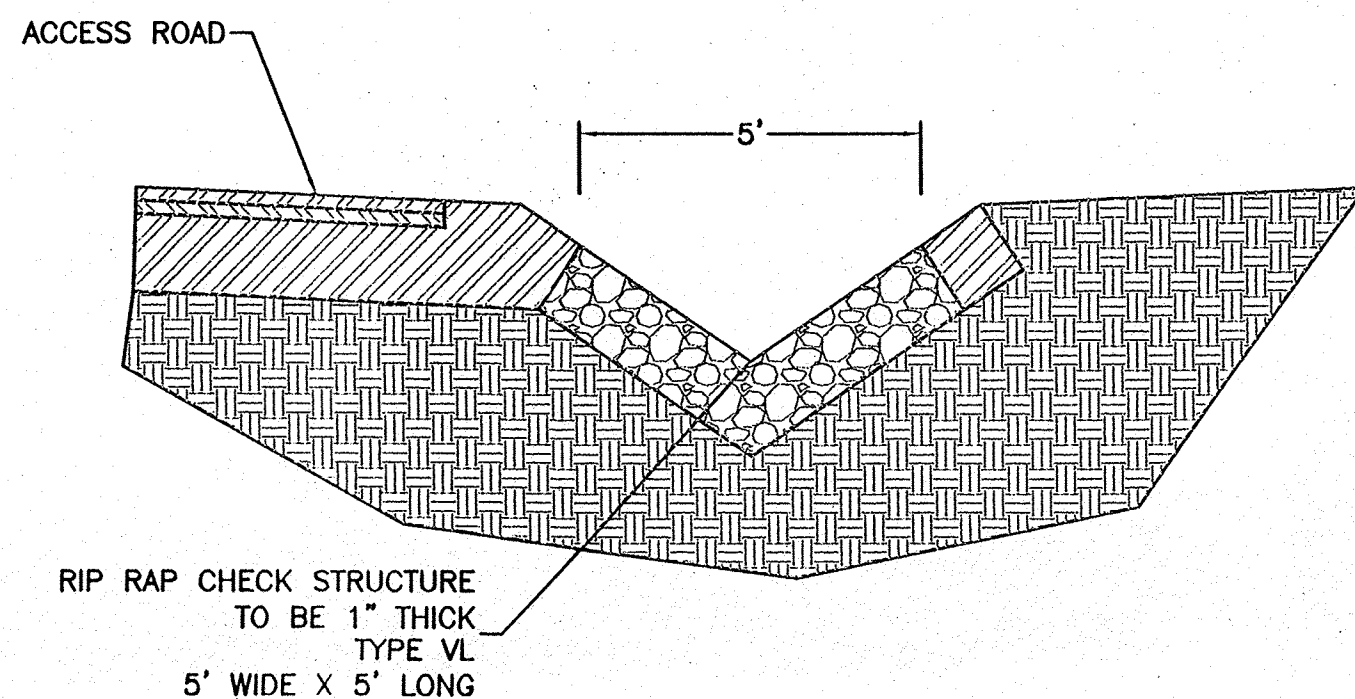
ASPHALT RUNDOWN DETAIL
NTS



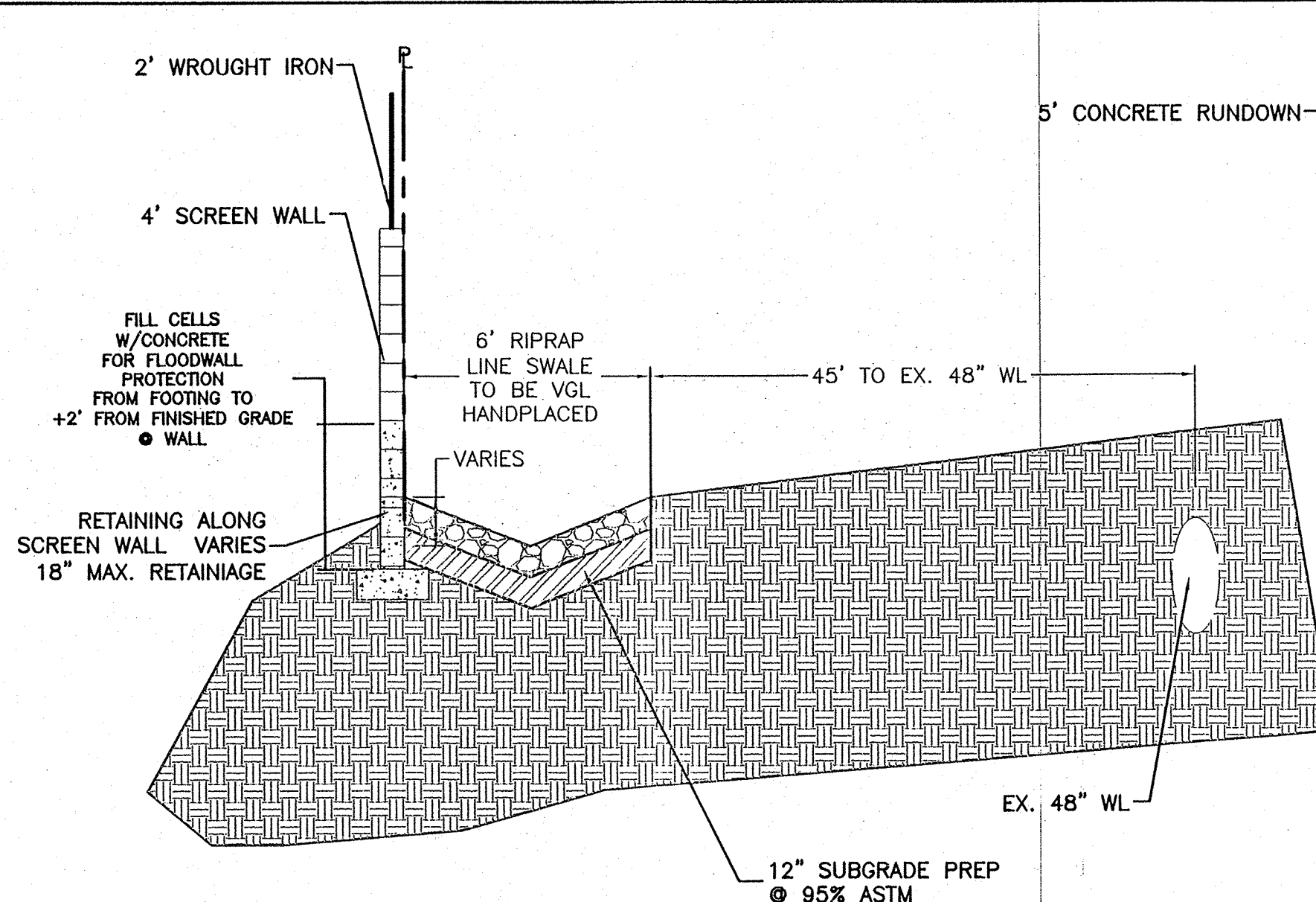
6' AND 8' SWALE DETAIL
NTS



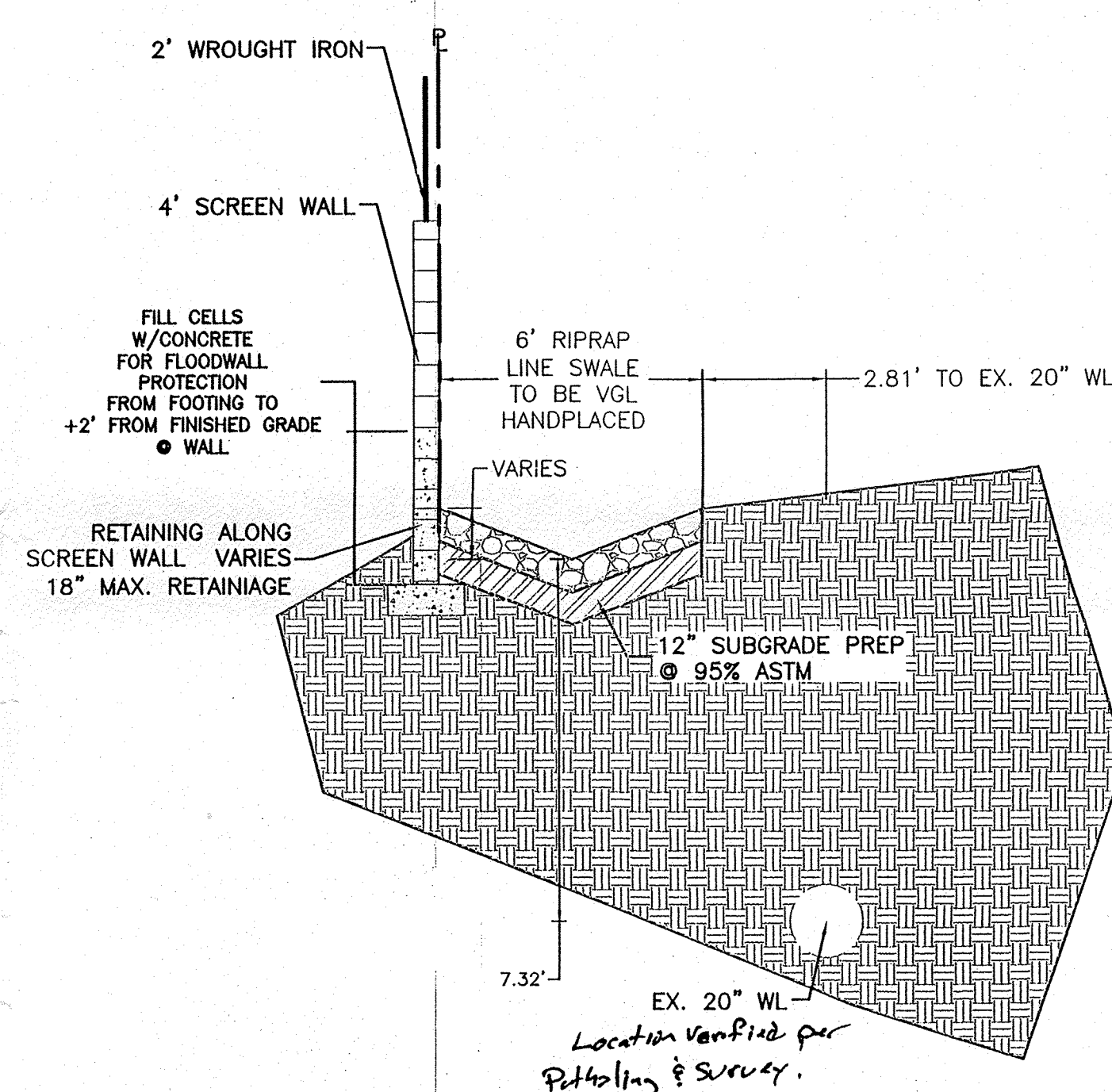
SECTION B-B
NTS



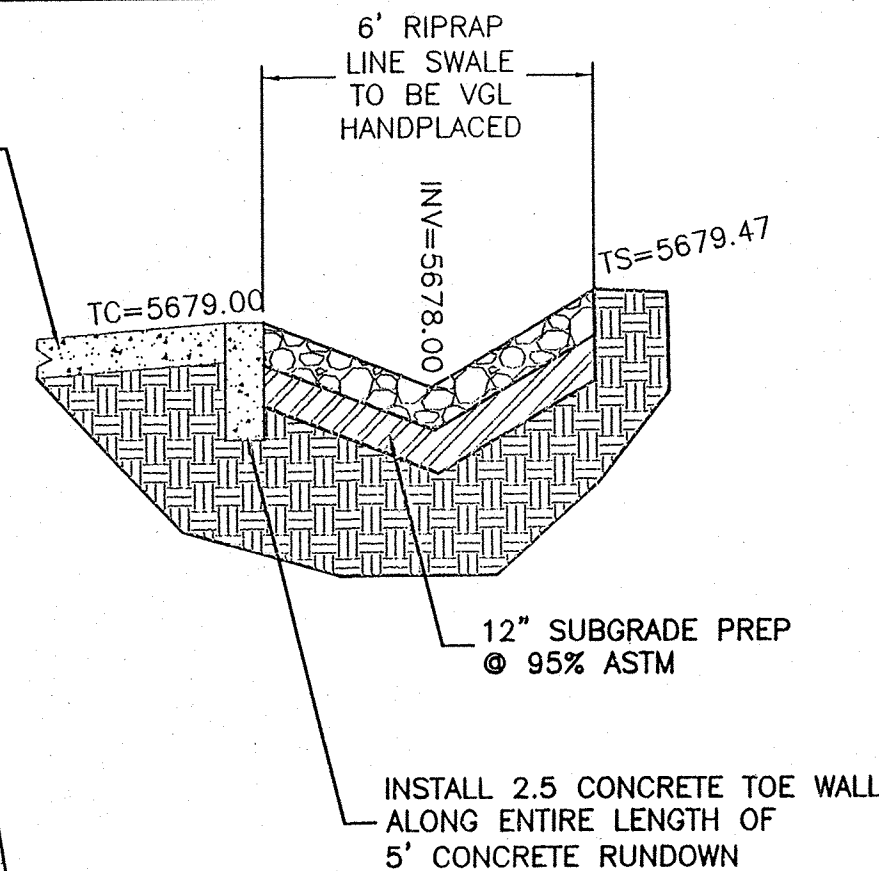
CONCRETE CHECK STRUCTURE DETAIL
NTS



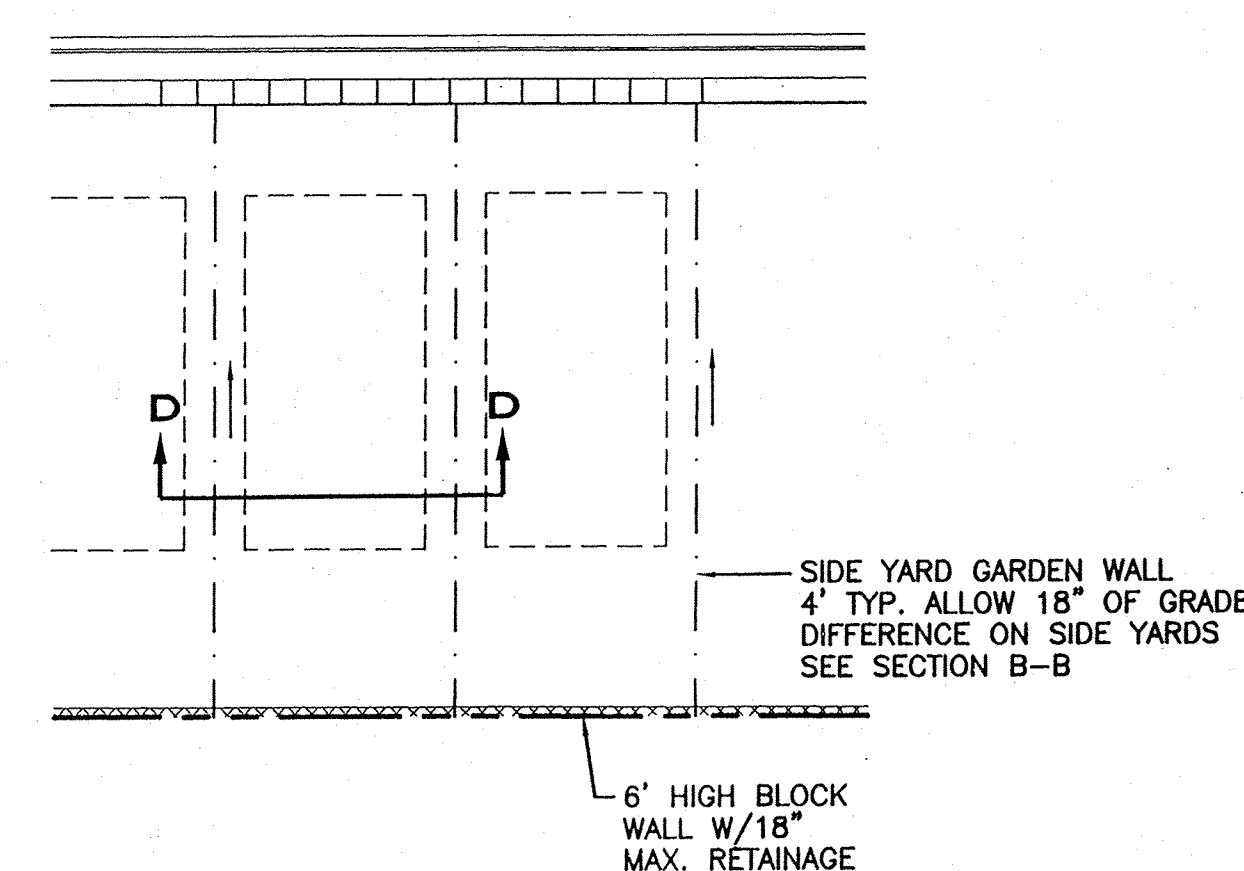
SECTION C-C
NTS



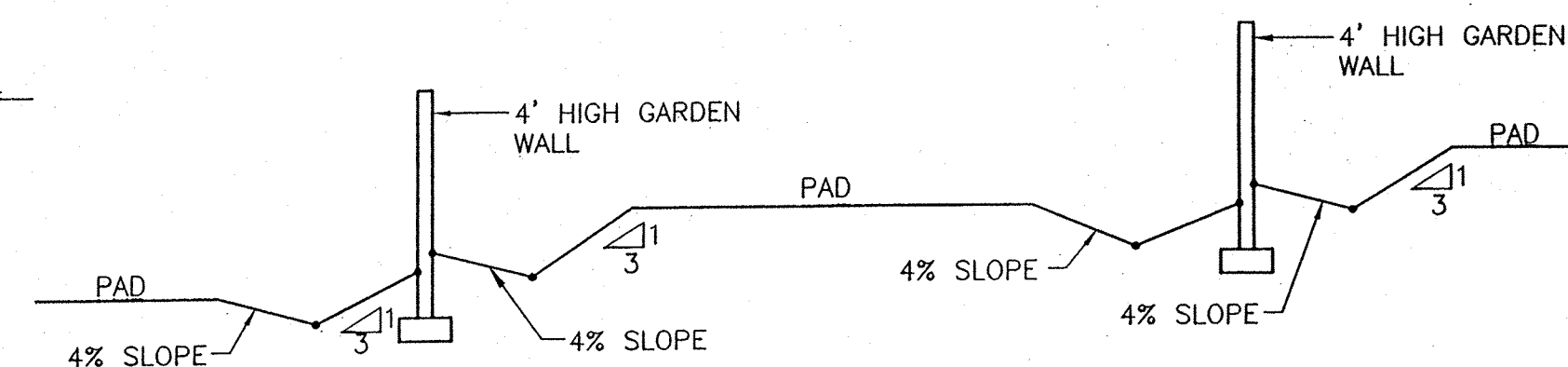
SECTION D-D
NTS



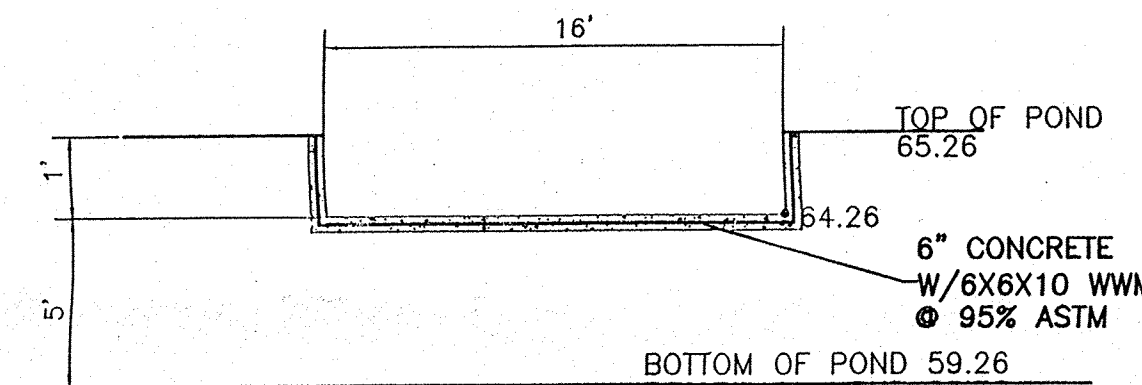
FL DESILTING AREA
NTS



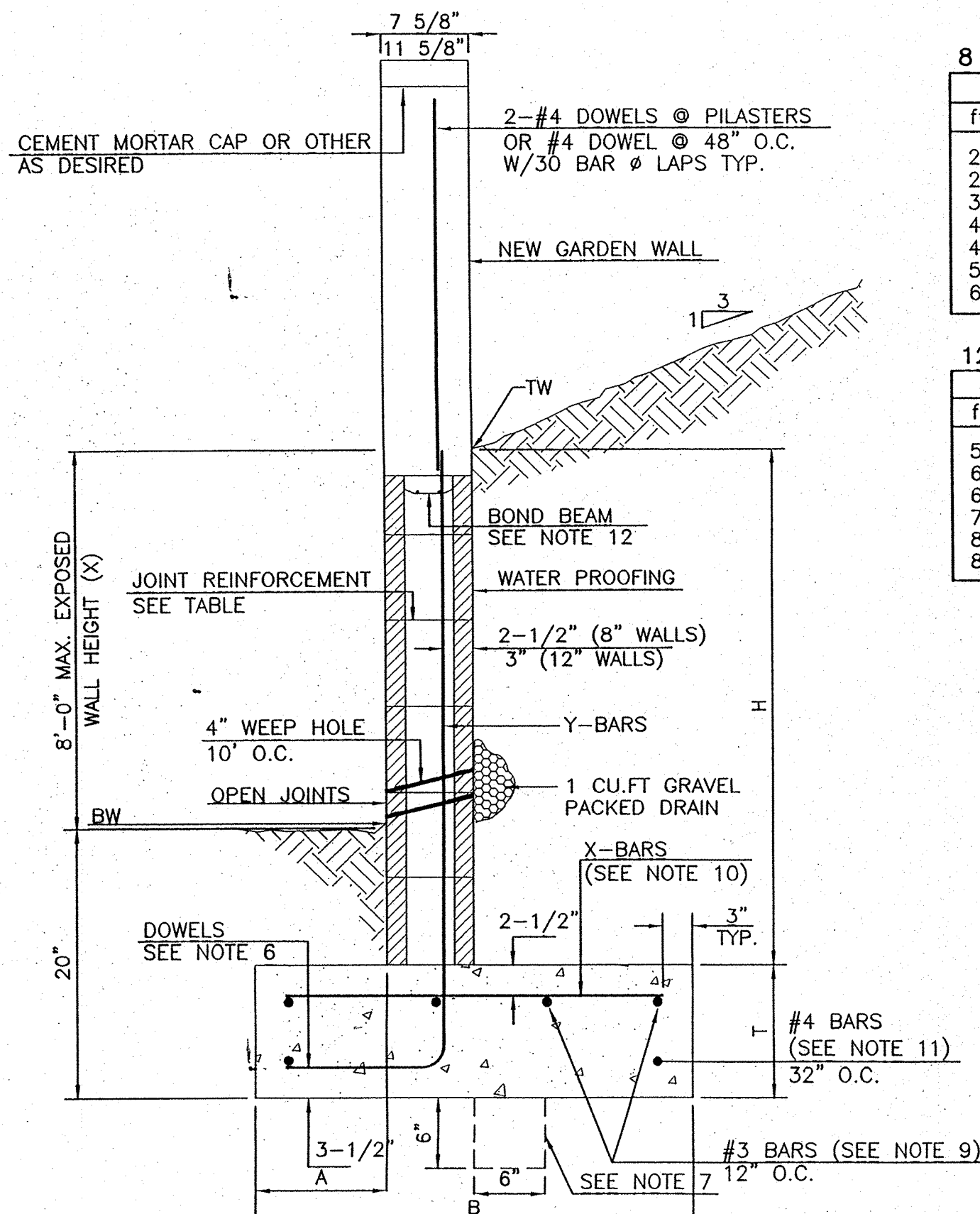
TYPICAL LOT GRADING
NTS



SECTION D-D
NTS



SPILLWAY DETAIL
NTS



RETAINING WALL DETAIL
NTS

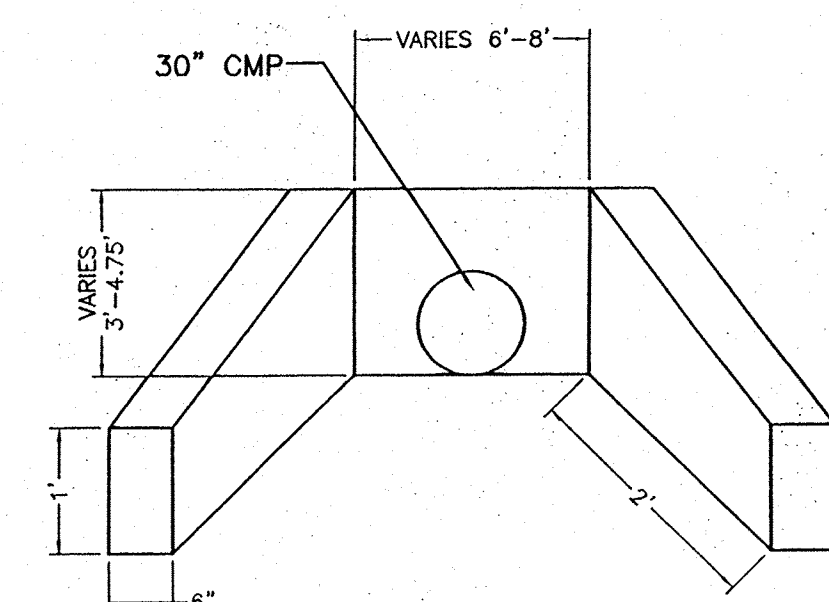
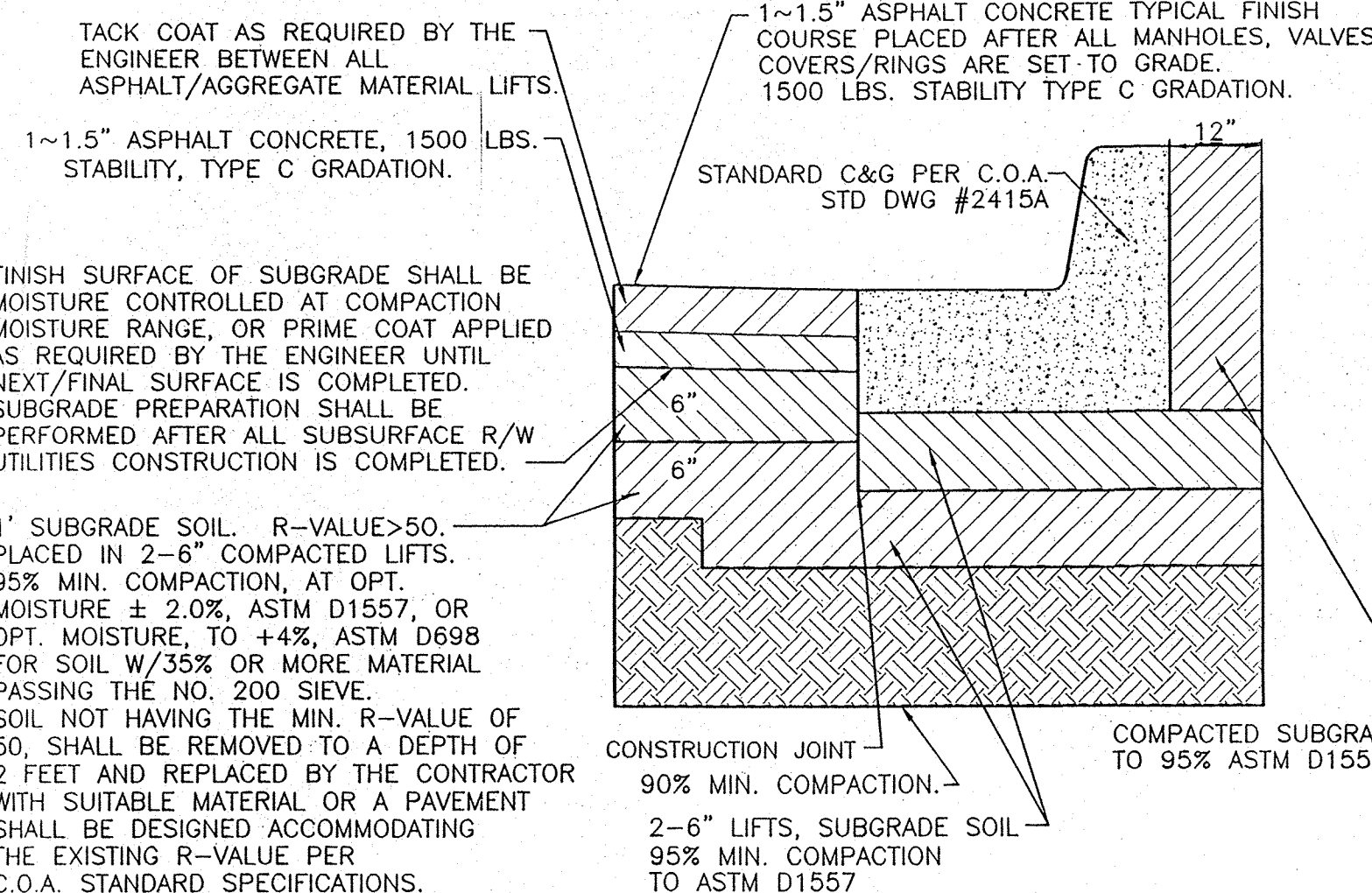
8 INCH REINFORCED CONCRETE MASONRY WALL							
H	X	A	B	T	Y-BARS	X-BARS	
ft.-in.	ft.-in.	in.	ft.-in.	in.			
2'-0"	1'-1"	8"	2'-4"	9"	#3 @32" O.C.	#3 @27" O.C.	
2'-8"	1'-9"	8"	2'-6"	9"	#4 @32" O.C.	#3 @27" O.C.	
3'-4"	2'-5"	8"	2'-8"	9"	#3 @32" O.C.	#3 @27" O.C.	
4'-0"	3'-1"	10"	2'-10"	9"	#4 @32" O.C.	#3 @27" O.C.	
4'-8"	3'-10"	12"	3'-4"	10"	#5 @32" O.C.	#3 @27" O.C.	
5'-4"	4'-6"	14"	3'-8"	10"	#4 @16" O.C.	#4 @30" O.C.	
6'-0"	5'-3"	16"	4'-2"	12"	#6 @24" O.C.	#4 @25" O.C.	

12 INCH REINFORCED CONCRETE MASONRY WALL							
H	X	A	B	T	Y-BARS	X-BARS	
ft.-in.	ft.-in.	in.	ft.-in.	in.			
5'-4"	4'-8"	14"	3'-8"	10"	#4 @24" O.C.	#3 @25" O.C.	
6'-0"	5'-4"	15"	4'-2"	12"	#4 @16" O.C.	#4 @30" O.C.	
6'-8"	6'-0"	16"	4'-6"	12"	#6 @24" O.C.	#4 @22" O.C.	
7'-4"	6'-8"	18"	4'-10"	12"	#5 @16" O.C.	#5 @26" O.C.	
8'-0"	7'-4"	20"	5'-4"	12"	#7 @24" O.C.	#5 @21" O.C.	
8'-8"	8'-0"	20"	5'-8"	12"	#7 @16" O.C.	#5 @21" O.C.	

GENERAL NOTES:

- ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
- MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS TO BE $\pm$ 2.0%.
- BACK FILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
- ALL BARS ARE TO BE GRADE 60, ASTM 615.
- TRUSS TYPE DWR-O-WALL EVERY OTHER COURSE.
- DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO Y-BARS, SHALL PROJECT A MINIMUM OF 30 BAR DIA. INTO THE FILLED BLOCK CORES, AND SHALL EXTEND TO THE TOE OF THE FOOTING.
- PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
- USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.
- #3 BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
- X BARS TO BE USED ON WALLS EXCEEDING 2'-8" HEIGHT
- #4 BARS TO BE USED ON WALLS SMALLER THAN 3'-4"
- BOND BEAM, 1-#4 BARS FOR WALLS UNDER 3'-4", 2-#4 BARS FOR WALLS UNDER 5'-4", 2-#5 BARS FOR WALLS OVER 5'-4".
- TW - DESIGNATES FINISHED GRADE @ TOP OF RETAINING WALL
BW - DESIGNATES FINISHED GRADE @ BOTTOM OF WALL.
BOOTOM OF FOOTING IS 20" BELOW THE DESIGNATED BW ELEVATION.

RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS



CONCRETE HEAD WALL FRONT
NTS

	CIELO ESTATES	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 1-22-08
	Rio Grande Engineering	2654-GR-3-21-07X
	1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0099	SHEET # 1 OF 2
DAVID SOULE P.E. #14522		JOB # 2654

RECEIVED
JAN 24 2008
HYDROLOGY SECTION