

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.

FUTURE 8' DIA. TYPE E SD MH
RIM=5515.22
INV IN=5507.13
INV OUT=5507.13

FUTURE 193 LF OF CLASS III
48" RCP @ 2.98%
FUTURE 8' DIA. TYPE E SD MH
RIM=5514.20
18" INV IN=5508.80
48" INV IN=5506.37
48" INV OUT=5506.37

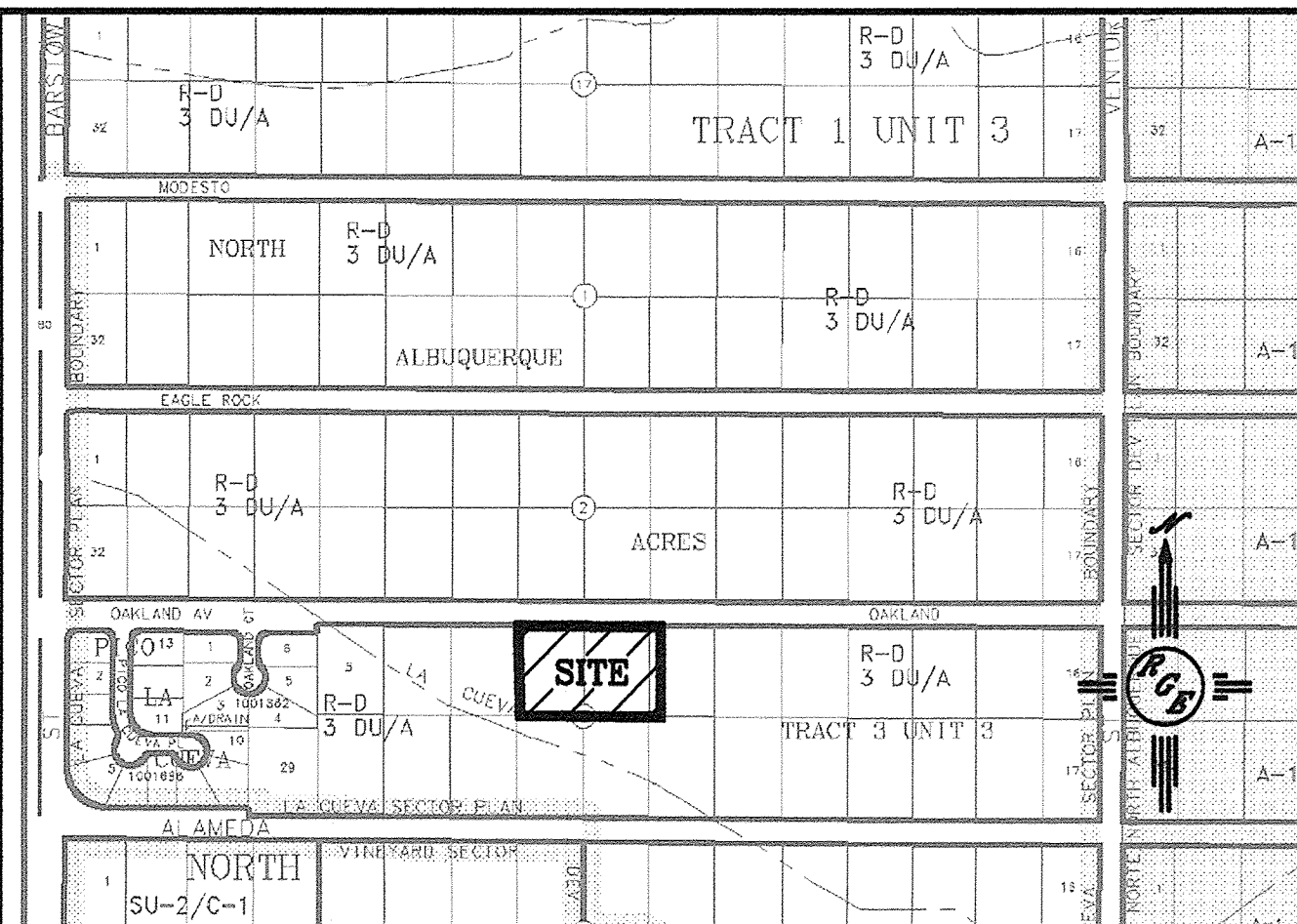
BUILD 1-SINGLE A-INLET
GRATE=5514.61
18" RCP INV IN=5511.10
18" RCP INV OUT=5511.00

NOTES:

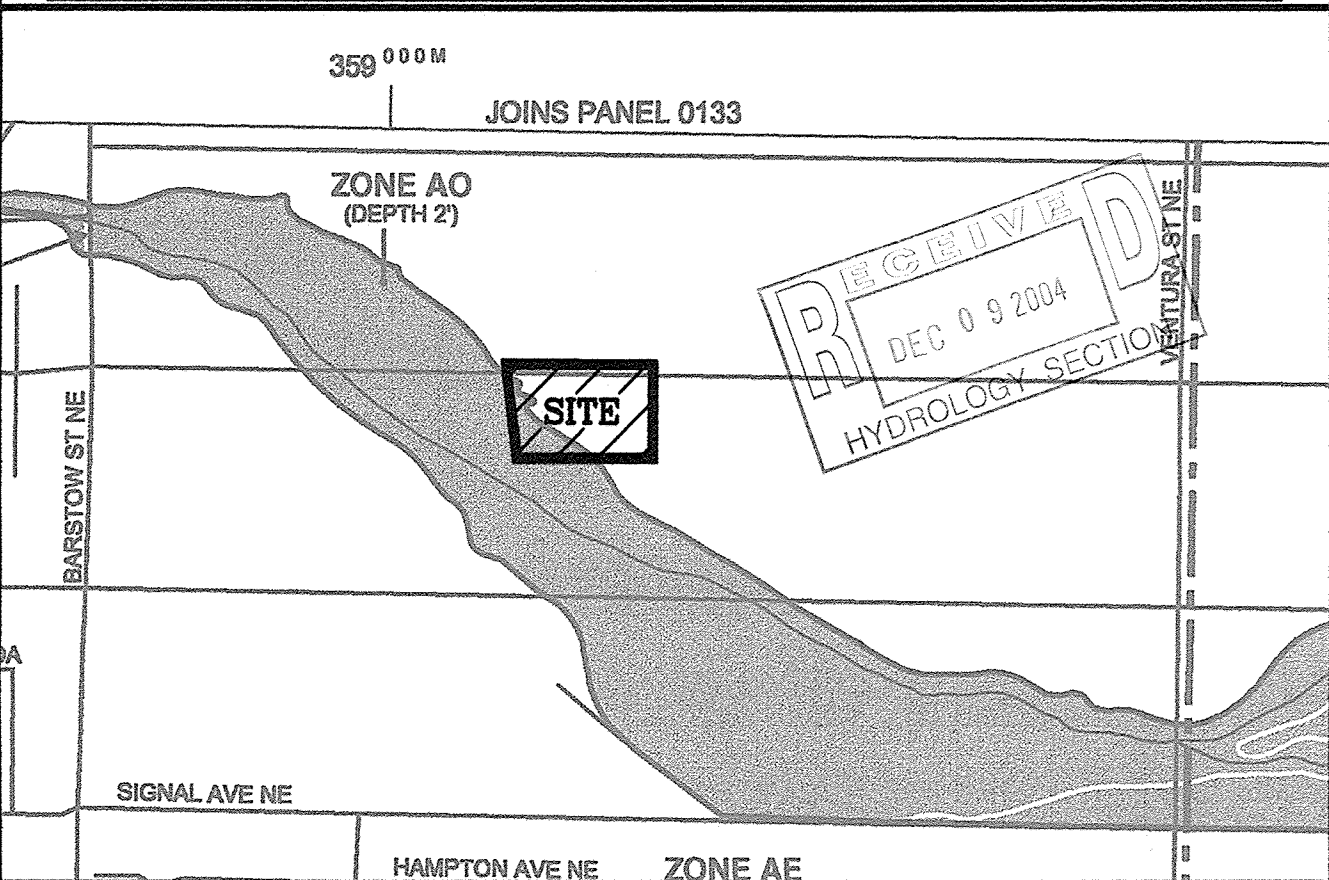
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO BE STANDARD PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.
3. ALL DRIVEPADS SHALL BE BUILT WHERE SHOWN.
4. ALL SPOT ELEVATIONS SHOWN ALONG OUTSIDE OF WALL WITHIN FEMA FLOODPLAIN ARE BOTTOM OF WALL AFTER CONSTRUCTION OF IMPROVED LA CUEVA ARROYO.

EROSION CONTROL NOTES:

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



VICINITY MAP: C-20-7



FIRM MAP: XXXX

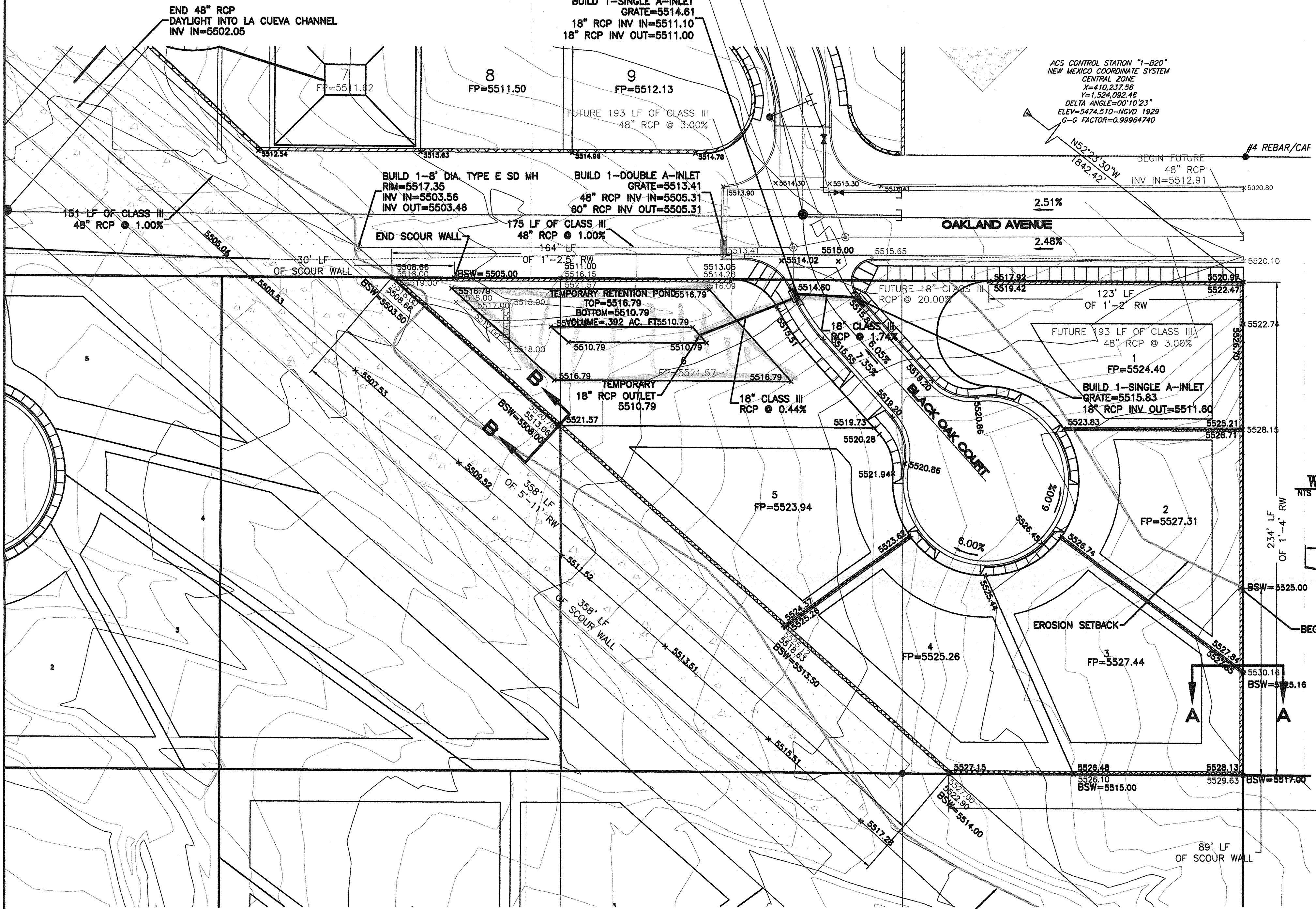
LEGAL DESCRIPTION:
LOTS 8,9 NORTH ALBUQUERQUE ACRES, BLOCK 3

LEGEND

	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER INLET
	EXISTING STORM SEWER LINE
	PROPOSED STORM SEWER LINE
	EXISTING FENCE
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	PROPOSED SIDEWALK
	PROPOSED PERIMETER WALL
	PROPOSED RETAINING WALL
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	FLOW ARROW
	SLOPE TIE
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	PROPOSED BOTTOM OF SCOUR WALL SPOT ELEVATION
	FLOODPLAIN EROSION SETBACK
	CENTERLINE
	RIGHT-OF-WAY
	LOT LINES
	SETBACK LINE
	PROPOSED POND

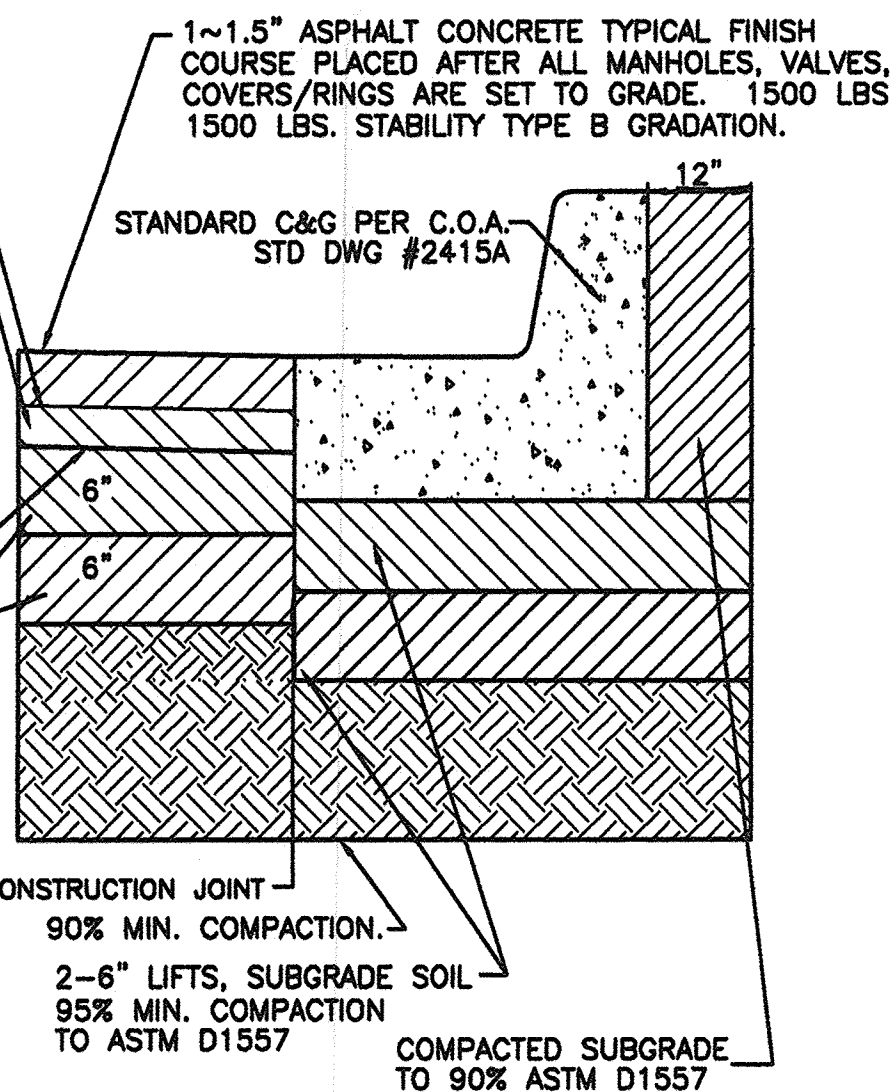
ROUGH GRADING APPROVAL DATE

ENGINEER'S SEAL	OAKLAND SOUTH SUBDIVISION	DRAWN BY WCMJ
	GRADING AND DRAINAGE PLAN	DATE 11-09-04
	<i>Rio Grande Engineering</i>	2457-GRB-9-20-04X
	1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 2
		JOB # 2457



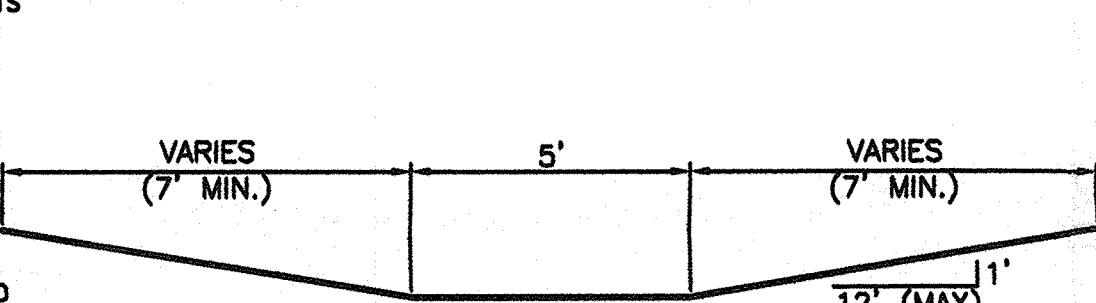
TACK COAT AS REQUIRED BY THE ENGINEER BETWEEN ALL ASPHALT/AGGREGATE MATERIAL LIFTS.
1~1.5" ASPHALT CONCRETE, 1800 LBS. STABILITY, TYPE A GRADATION.

FINISH SURFACE OF SUBGRADE SHALL BE MOISTURE CONTROLLED AT COMPACTION MOISTURE RANGE, OR PRIME COAT APPLIED AS REQUIRED BY THE ENGINEER UNTIL NEXT/FINAL SURFACE IS COMPLETED. SUBGRADE PREPARATION SHALL BE PERFORMED AFTER ALL SUBSURFACE R/W UTILITIES CONSTRUCTION IS COMPLETED.
1' SUBGRADE SOIL. R-VALUE>50. PLACED IN 2-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT. MOISTURE, TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. SOIL NOT HAVING THE MIN. R-VALUE OF 50, SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL OR A PAVEMENT SHALL BE DESIGNED ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

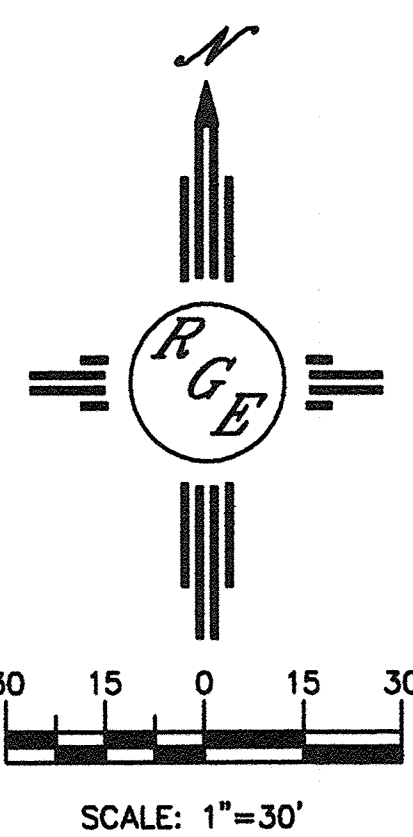
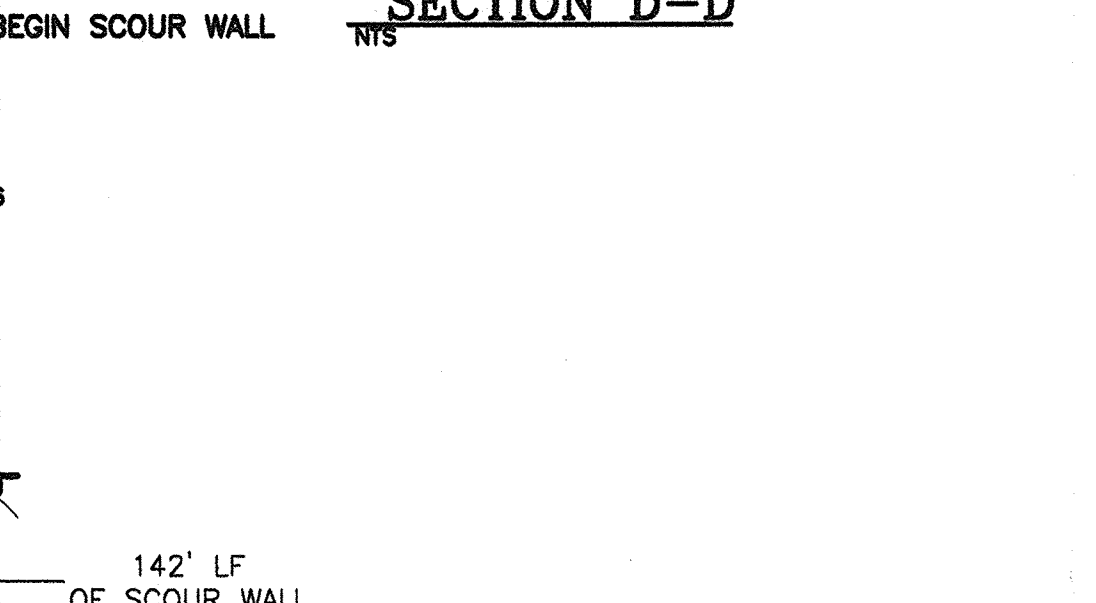


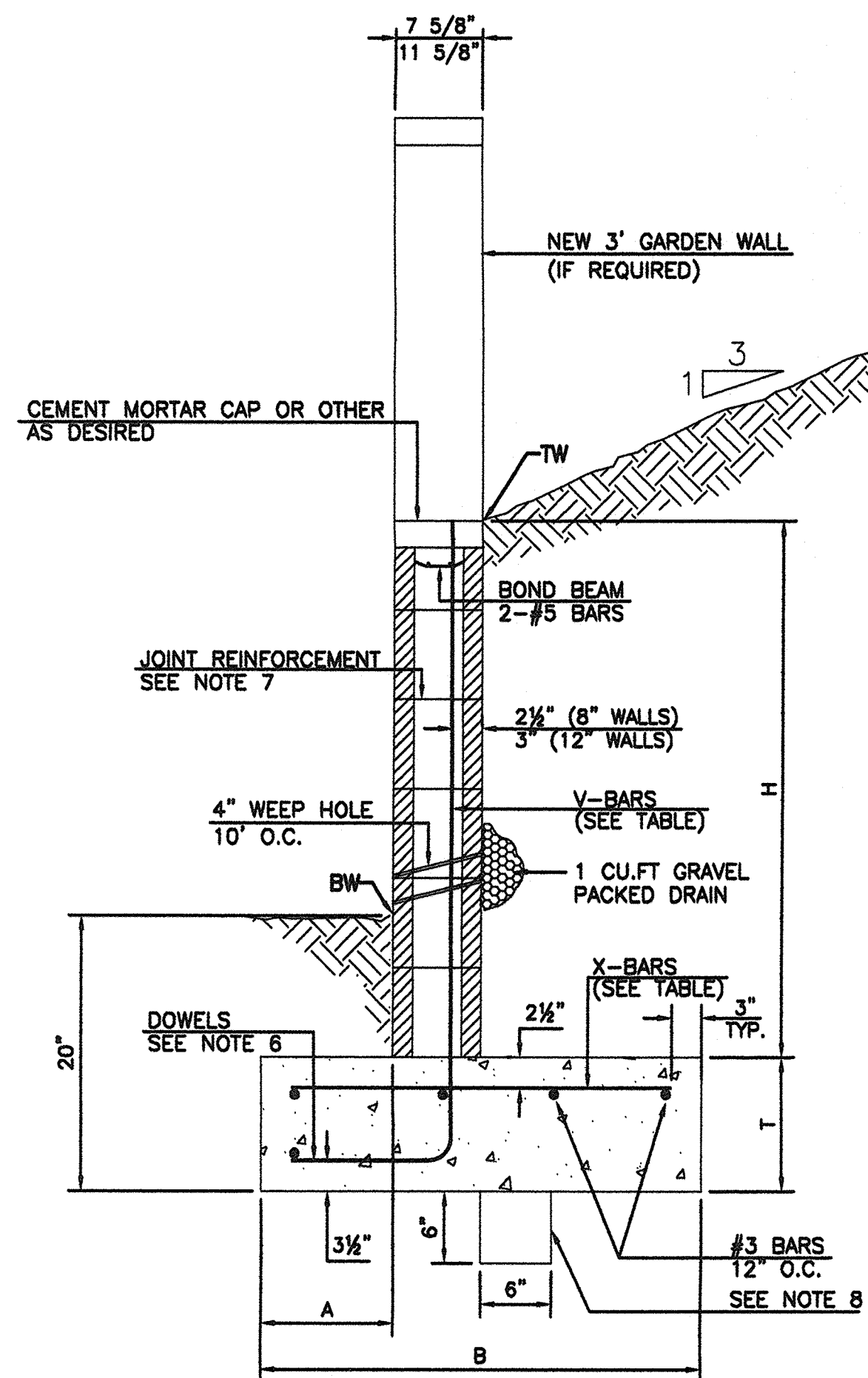
RESIDENTIAL PAVING SECTION (STANDARD CURB)
NTS

WHEELCHAIR RAMP DETAIL (TYP.)



SECTION D-D





RETAINING WALL DETAIL
NTS

8 INCH REINFORCED CONCRETE MASONRY WALL

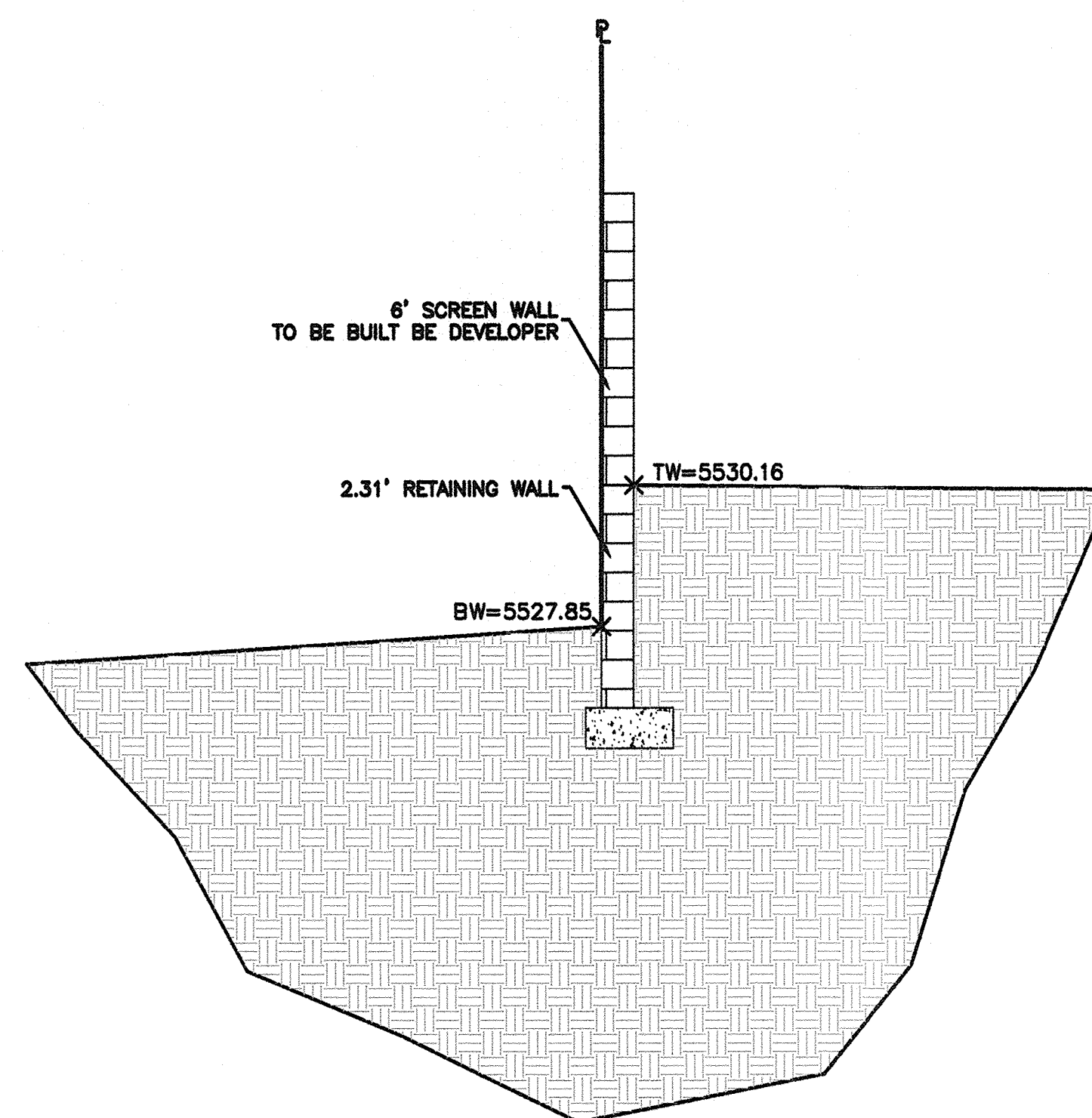
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
3'-4"	8"	2'-4"	9"	#4 @32" O.C.	#4 @34" O.C.
4'-0"	10"	2'-9"	9"	#4 @32" O.C.	#4 @36" O.C.
4'-8"	12"	3'-4"	10"	#4 @24" O.C.	#4 @24" O.C.
5'-4"	14"	3'-8"	10"	#4 @16" O.C.	#4 @16" O.C.
6'-0"	16"	4'-2"	12"	#4 @16" O.C.	#4 @16" O.C.

12 INCH REINFORCED CONCRETE MASONRY WALL

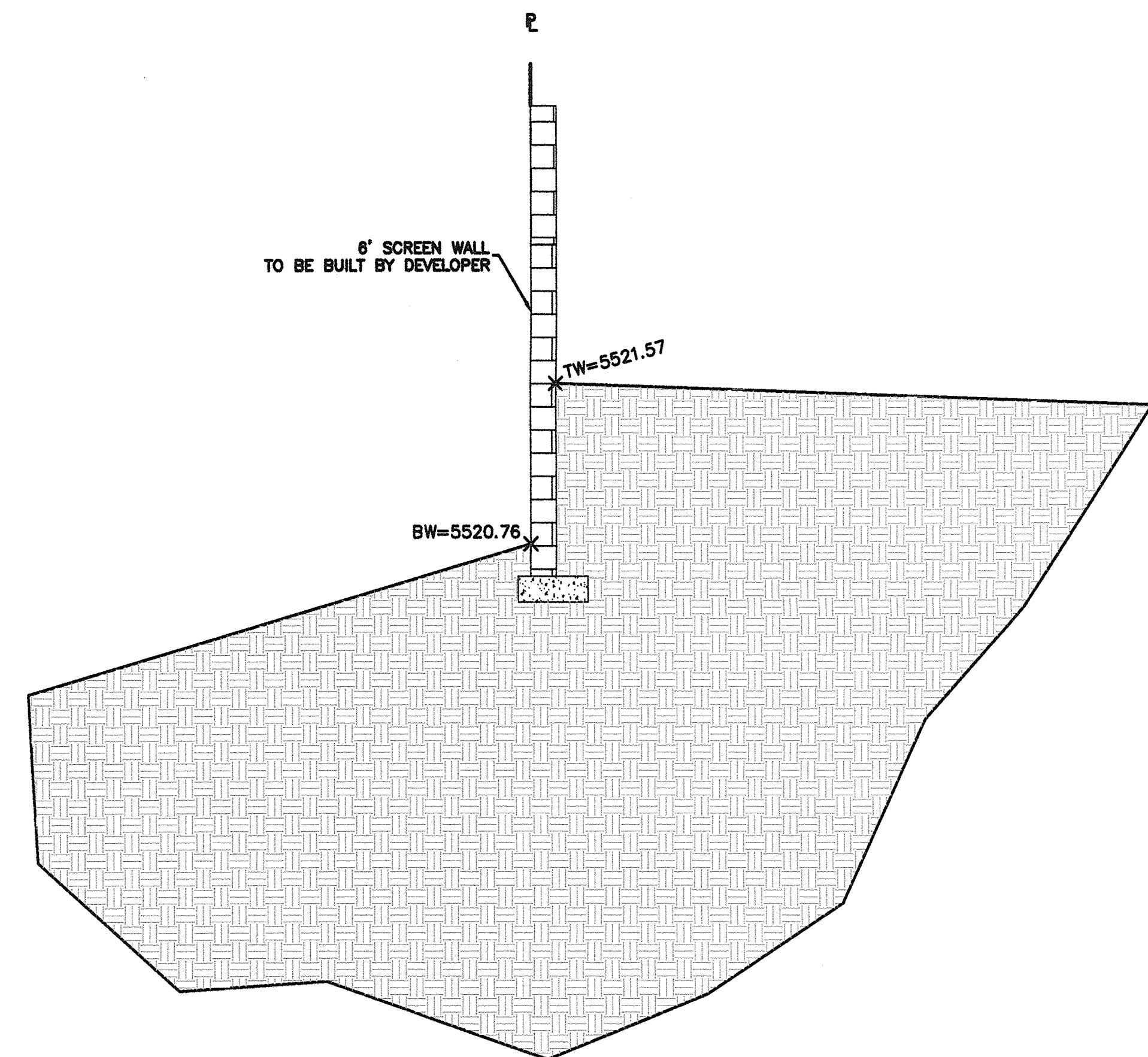
H	A	B	T	V-BARS	X-BARS
ft.-in.	in.	ft.-in.	in.		
5'-4"	14"	3'-8"	10"	#4 @24" O.C.	#3 @24" O.C.
6'-0"	15"	4'-2"	12"	#4 @16" O.C.	#4 @30" O.C.
6'-8"	16"	4'-6"	12"	#6 @24" O.C.	#4 @22" O.C.
7'-4"	18"	4'-10"	12"	#5 @16" O.C.	#5 @26" O.C.
8'-0"	20"	5'-4"	12"	#7 @24" O.C.	#5 @21" O.C.

GENERAL NOTES:

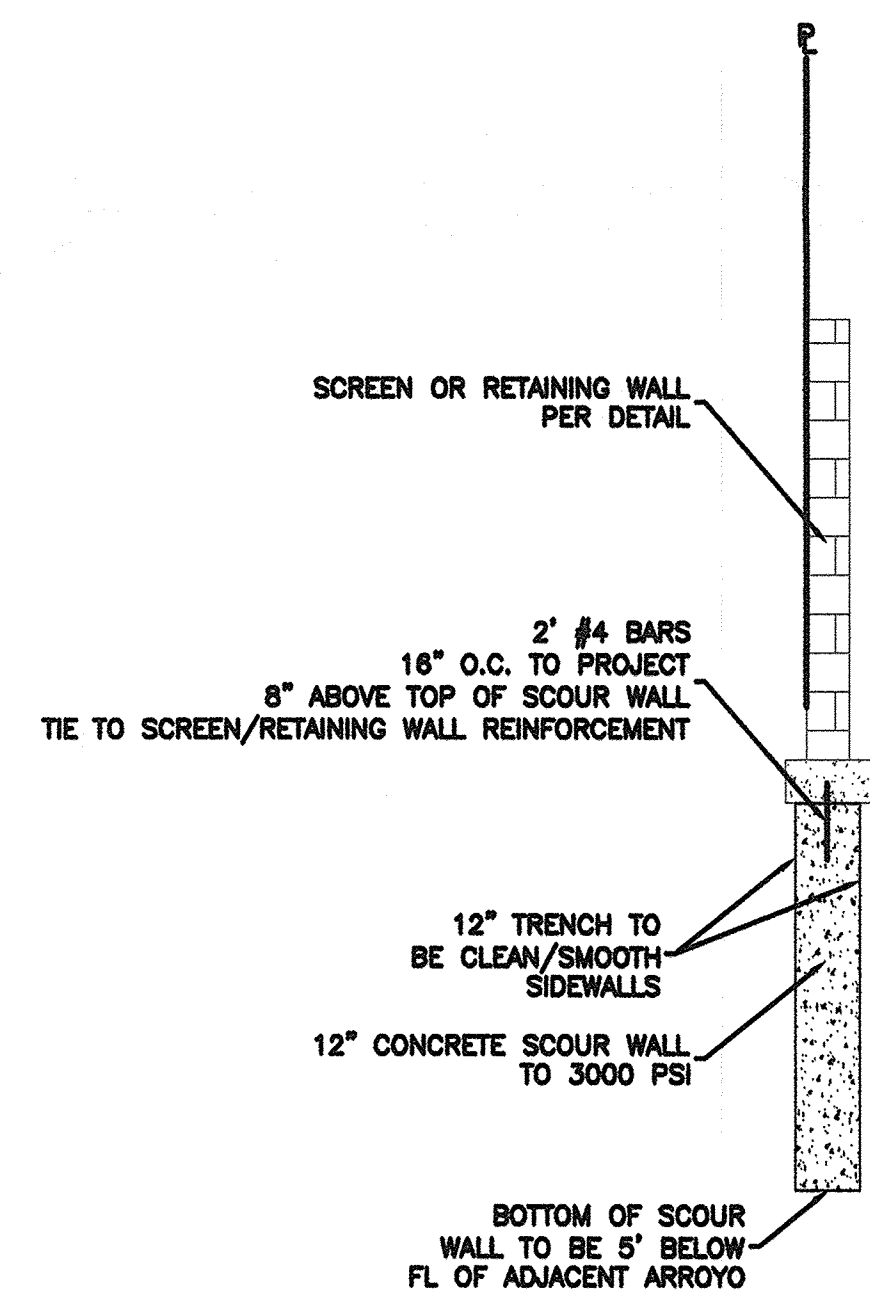
- ALL CONCRETE IS TO BE 4000 PSI @ 28 DAYS.
- MINIMUM COMPACTION UNDER FOOTINGS IS TO BE 95% PER ASTM. D 1557 FOR A DEPTH OF 12" MOISTURE CONTENT IS TO BE $\pm 2.0\%$.
- BACKFILL AGAINST WALLS IS TO BE HAND-PLACED AND COMPACTED.
- ALL BARS ARE TO BE GRADE 60, ASTM 615.
- TRUSS TYPE DUR-O-WALL EVERY OTHER COURSE.
- DOWELS SHALL BE AT LEAST EQUAL IN SIZE AND SPACING TO V-BARS, SHALL PROJECT A MINIMUM OF 30 BAR DIA. INTO THE FILLED BLOCK CORES, AND SHALL EXTEND TO THE TOE OF THE FOOTING.
- JOINT REINFORCEMENT CONSISTING OF 9GA. LONGITUDINAL WIRE AND 3/16" CROSS RODS SHALL BE PROVIDED AT 8" CENTERS VERTICALLY.
- PROVIDE KEY FOR 8" AND 12" WALLS WHERE H EXCEEDS 6'-0"
- USE EITHER EXPANSION JOINTS ON 20' CENTERS OR PILASTERS EVERY 16'.



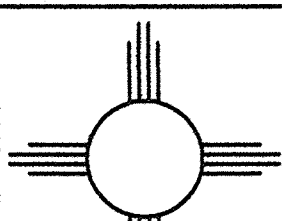
SECTION A-A
NTS



SECTION B-B
NTS



SCOUR WALL DETAIL
NTS

ENGINEER'S SEAL	OAKLAND SOUTH SUBDIVISION	DRAWN BY WCWJ
		DATE 11-09-04
		2457-GRB-9-20-04X
	SHEET # 2 OF 2	
DAVID SOULE P.E. #14522	 <i>Rio Grande Engineering</i> 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	JOB # 2457