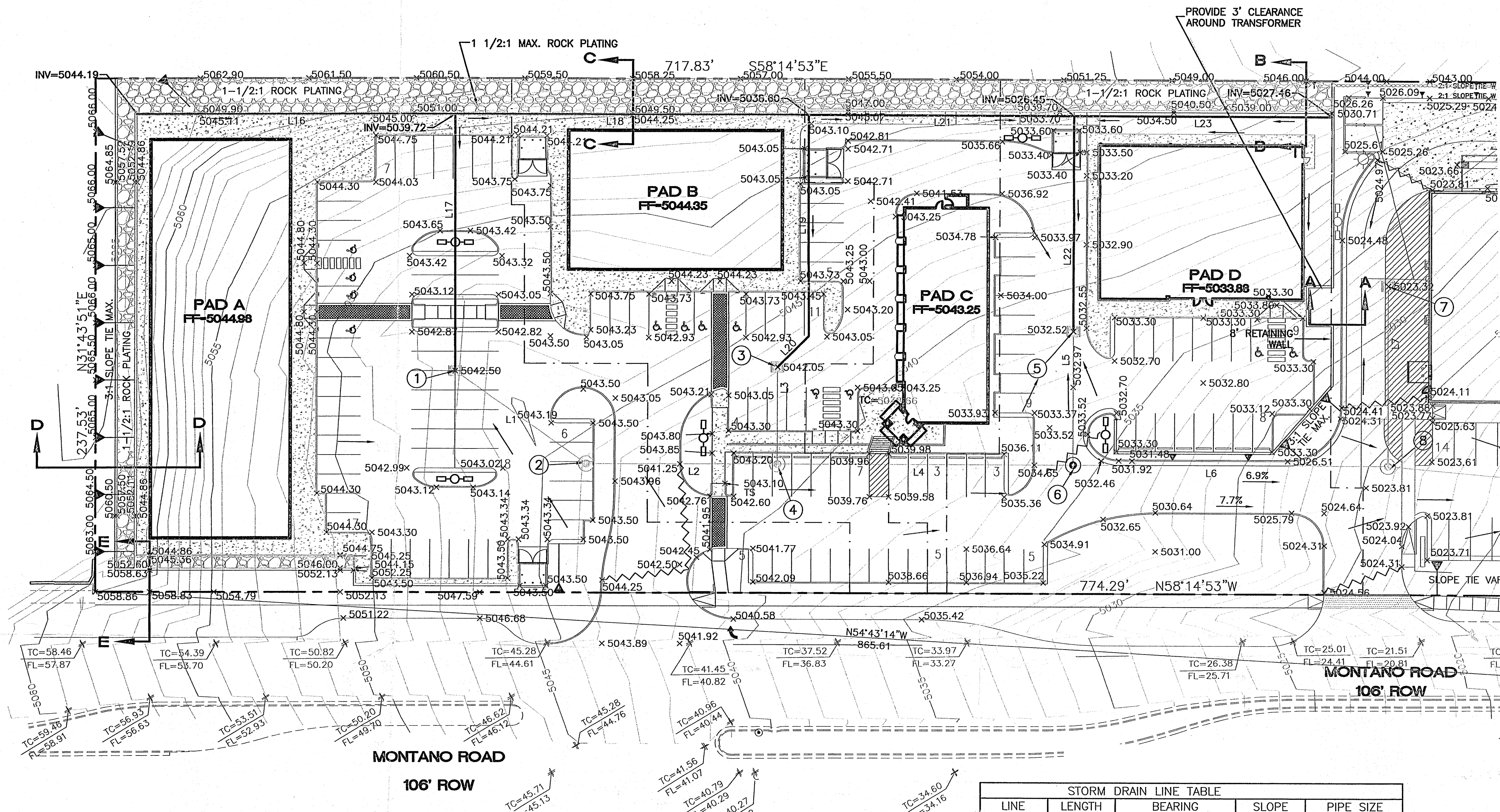




EROSION CONTROL NOTES

- 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.

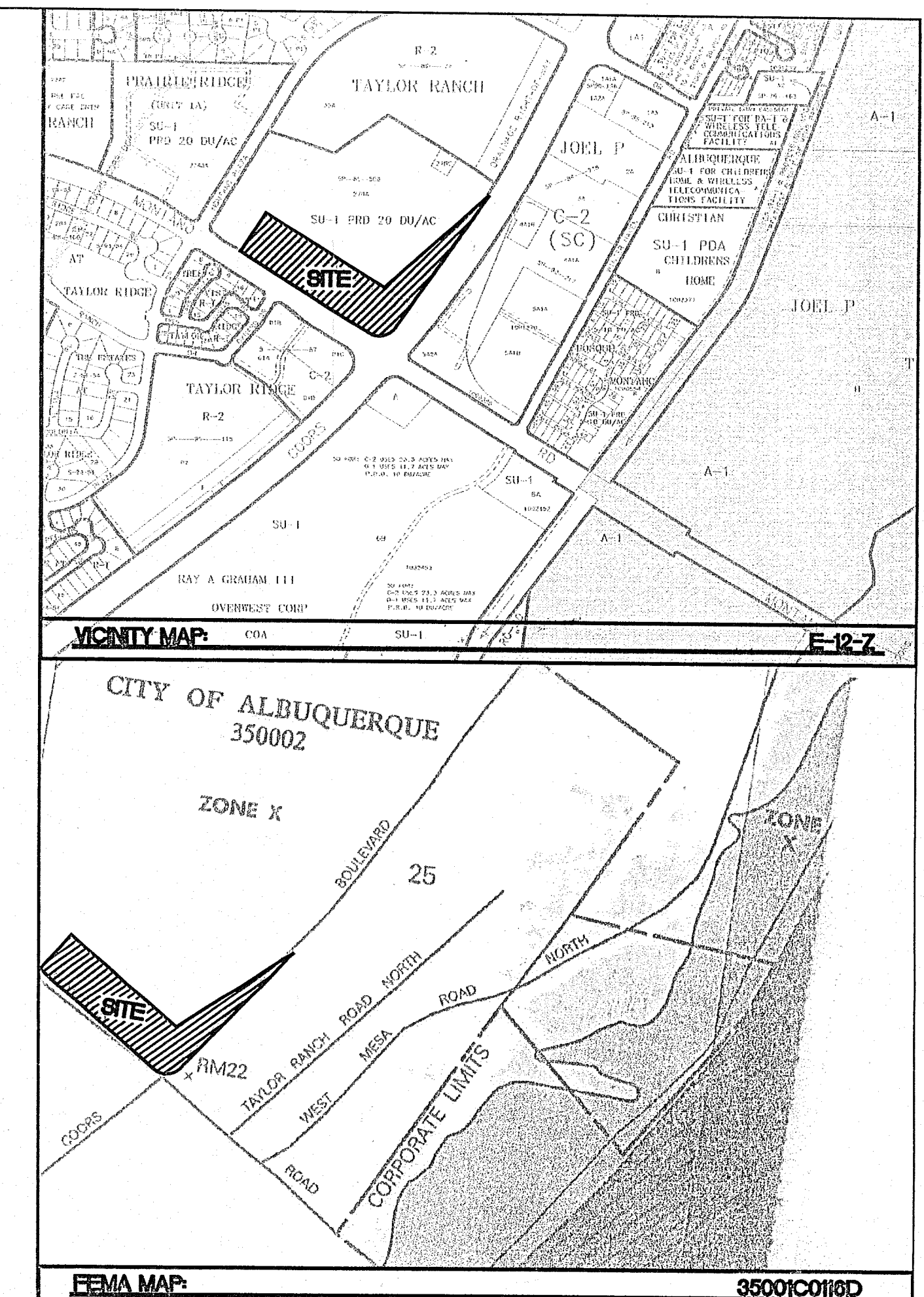
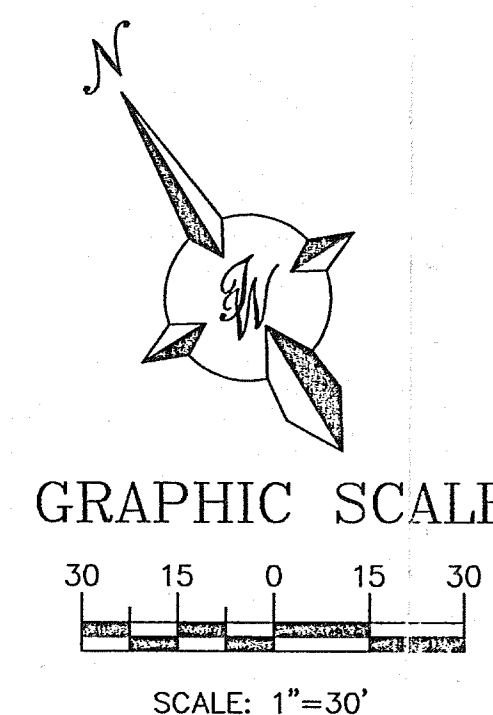
LINE	LENGTH	BEARING	SLOPE
L16	147.08	S58°00'00"E	1.00%
L18	163.85	S58°00'00"E	0.68%
L21	123.23	S58°00'00"E	9.90%
L23	118.99	S58°00'00"E	0.85%

LINE	LENGTH	BEARING	SLOPE
L17	118.42	N32°00'00"E	1.00%
L19	102.15	N32°00'00"E	0.50%
L20	20.22	N77°00'00"E	0.50%
L22	125.34	N32°00'00"E	1.81%

LINE	LENGTH	BEARING	SLOPE	PIPE SIZE
L1	74.30	S22°45'16"E	1.00%	8" PVC
L2	88.86	S58°00'00"E	1.00%	8" PVC
L3	44.88	S32°00'00"W	1.89%	8" PVC
L4	137.52	S58°00'00"E	7.10%	8" PVC
L5	61.76	S32°00'00"W	1.00%	8" PVC
L6	145.38	S58°00'00"E	6.50%	12" PVC #6
L7	83.26	S32°00'00"W	1.29%	8" PVC
L8	112.83	S52°54'55"E	0.91%	12" PVC #8
L9	9.45	S32°00'00"W	1.00%	8" PVC
L10	90.08	S58°00'00"E	1.00%	12" PVC #4
L11	72.35	S52°00'09"W	3.93%	8" PVC
L12	67.25	S38°02'57"W	1.00%	8" PVC
L13	5.11	S51°57'03"E	1.00%	8" PVC
L14	79.15	S38°02'57"W	1.00%	8" PVC
L15	73.61	S15°38'24"W	15.13%	18" CLASS IV RCP

#	DESCRIPTION	RIM/GRADE ELEV	INV IN	INV IN	INV OUT	ORIFACE	M.W.S.E.
1	TYPE D - DI	5042.50	-	-	5038.50	1"	5043.49
2	TYPE C - MH	5043.50	-	5037.76	5037.66	-	-
3	TYPE D - DI	5042.05	-	-	5038.05	2-1/2"	5042.86
4	TYPE C - MH	5042.10	-	(W)5036.77	(E)5036.67	-	-
5	TYPE D - DI	5032.30	-	-	5024.65	3"	5033.16
6	TYPE C - MH	5033.35	-	(W)5024.03	(E)5023.93	-	-
7	TYPE D - DI	5023.32	-	-	5015.55	2-1/4"	5024.28
8	TYPE C - MH	5023.96	(N)5014.48	(W)5014.48	(E)5014.38	-	-
9	TYPE D - DI	5022.61	-	-	5013.46	2-1/4"	5023.50
10	TYPE C - MH	5022.81	(S)5013.36	(W)5013.36	(E)5013.26	-	-
11	TYPE D - DI	5022.61	-	-	5013.50	1"	5023.30
12	TYPE C - MH	5023.41	(N)5012.35	(W)5012.35	(SE)5012.25	-	-
13	TYPE D - DI	5022.67	-	-	5016.75	1"	5023.45
14	TYPE C - MH	5022.86	-	(W)5013.91	(S)5013.81	-	-

M.W.S.E. = MAXIMUM WATER SURFACE ELEVATION



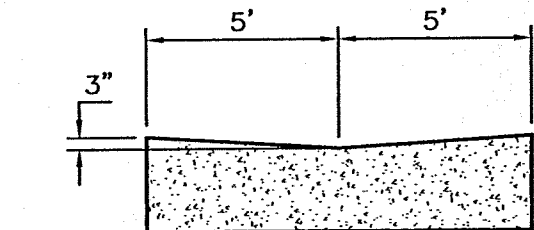
- NOTES:**
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 - ALL SEGMENTAL WALLS WILL BE DESIGNED BY STRUCTURAL ENGINEER.

LEGEND

- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED SNGL. "D" INLET
- PROPOSED STORM SEWER LINE
- EXISTING CURB & GUTTER
- PROPOSED CURB
- FUTURE CURB
- BOUNDARY LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- FLOWLINE
- GRADE BREAK
- CENTERLINE
- RIGHT-OF-WAY
- TEMPORARY DESILTING POND

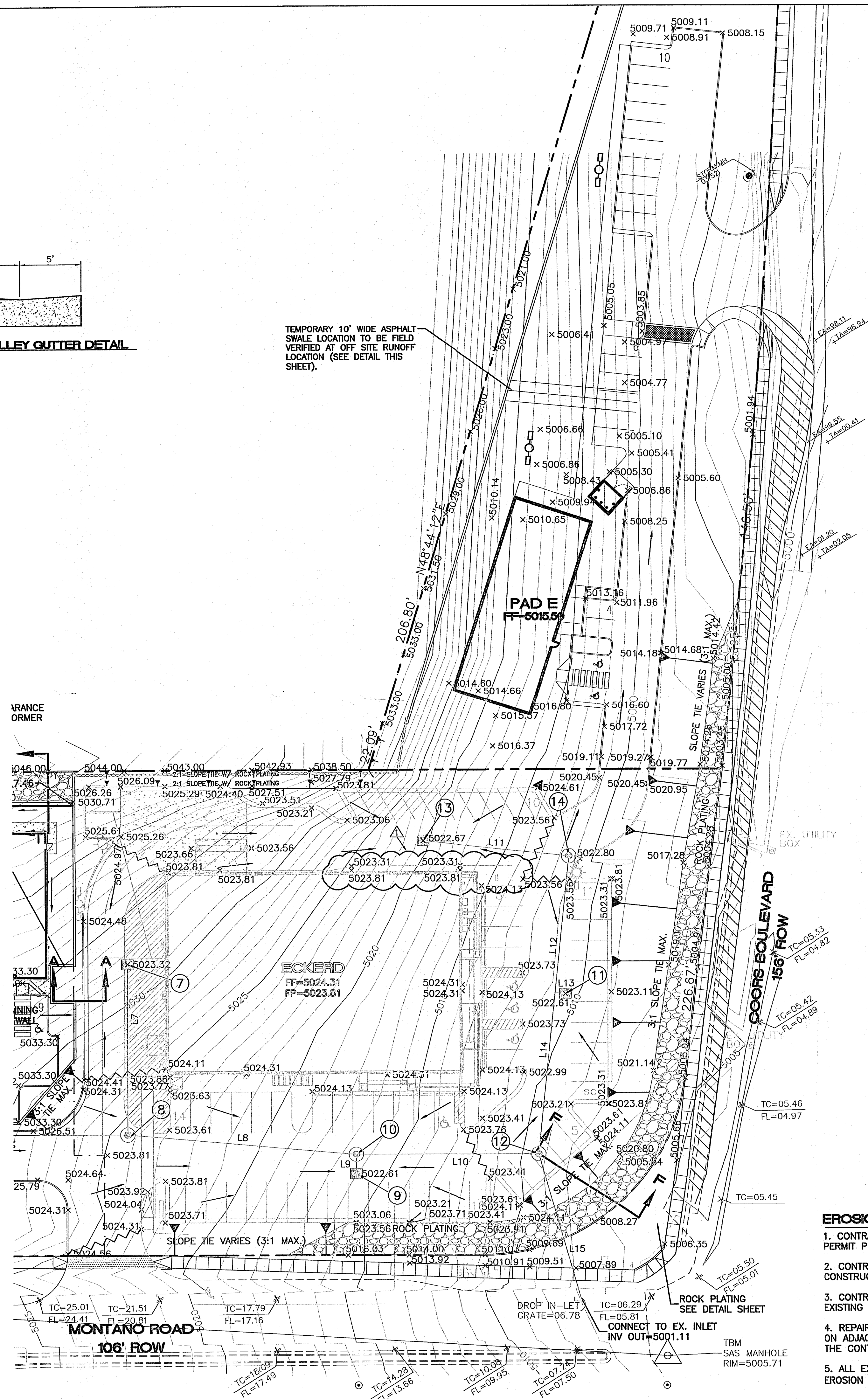
ROUGH GRADING APPROVAL

ENGINEER'S SEAL	ECKERD DRUG PLAZA GRADING AND DRAINAGE PLAN	DRAWN BY MP
		DATE 8-18-04
TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100		SHEET # 1 OF 3
JOB # 230005		



ASPHALT VALLEY GUTTER DETAIL
N.T.S.

TEMPORARY 10' WIDE ASPHALT
SWALE LOCATION TO BE FIELD
VERIFIED AT OFF SITE RUNOFF
LOCATION (SEE DETAIL THIS
SHEET).

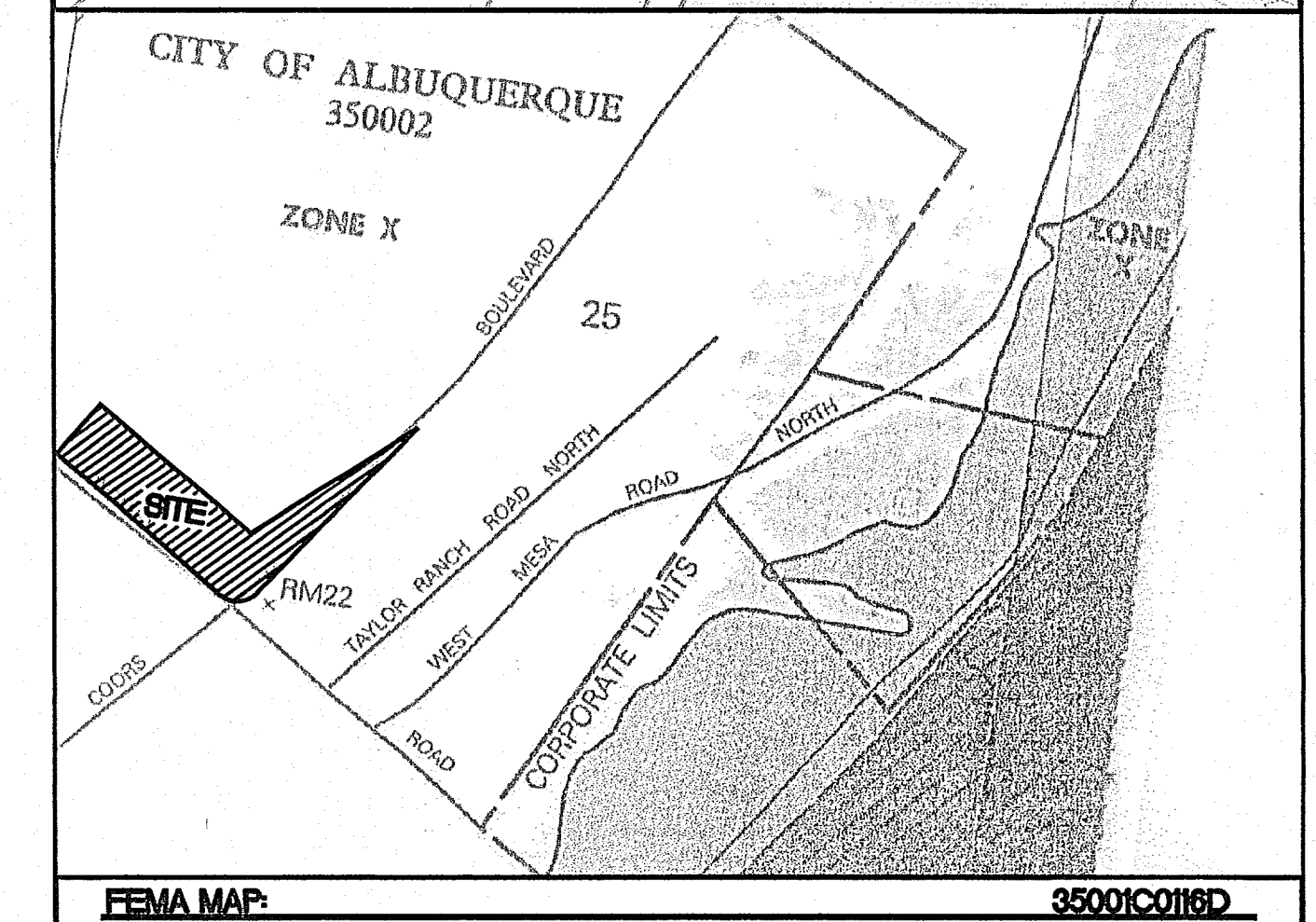
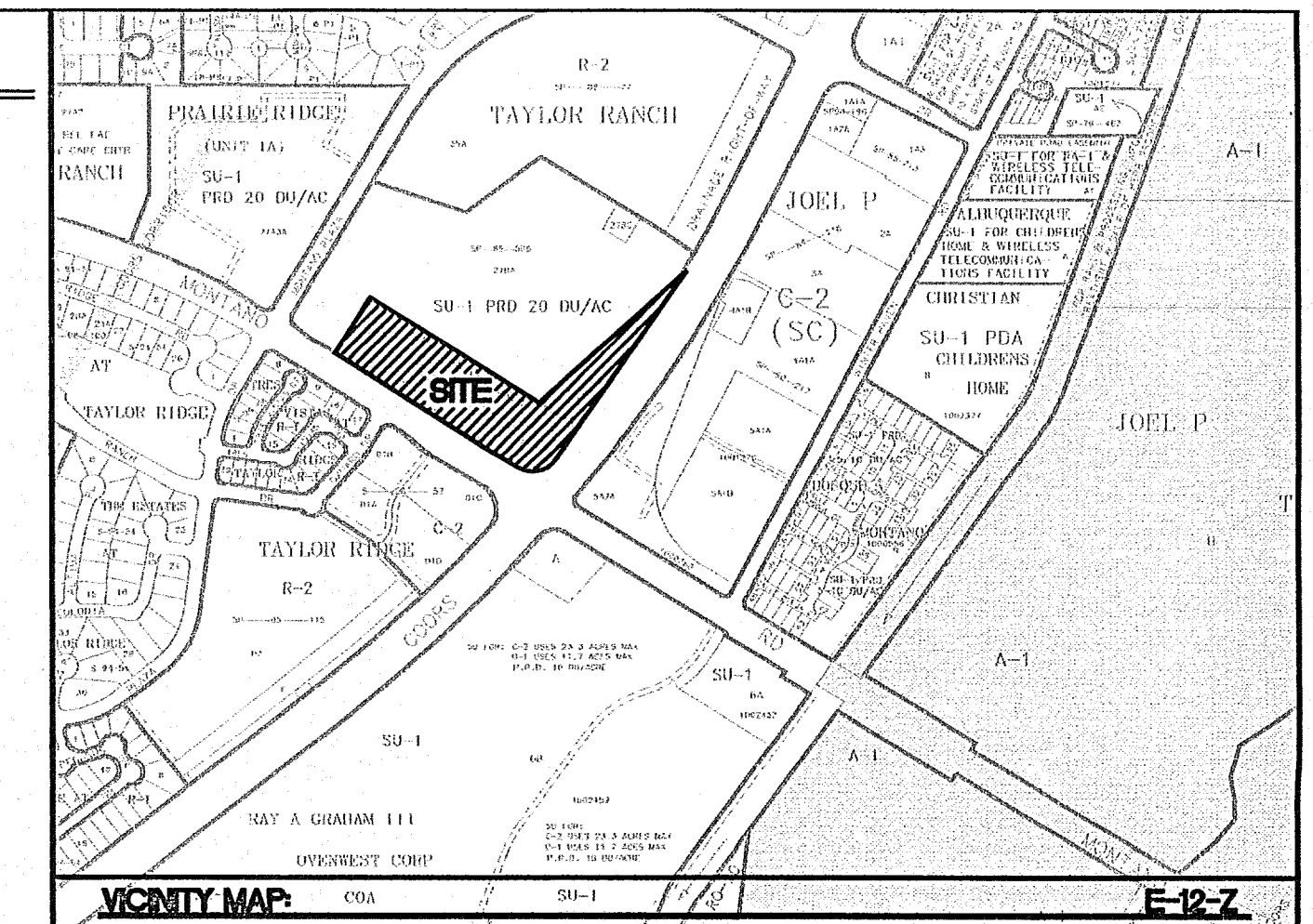


LEGEND

	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER LINE
	PROPOSED STORM SEWER MANHOLE
	PROPOSED SNGL. "D" INLET
	PROPOSED STORM SEWER LINE
	EXISTING CURB & GUTTER
	PROPOSED CURB
	FUTURE CURB
	BOUNDARY LINE
	PROPOSED SEGMENTAL WALL
	MAXIMUM WATER SERVICE ELEVATION
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	FLOW ARROW
	SLOPE TIE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	FLOWLINE
	GRADE BREAK
	CENTERLINE
	RIGHT-OF-WAY
	TEMPORARY DESILTING POND

ROUGH GRADING APPROVAL

DATE



NOTES

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SEGMENTAL WALLS WILL BE DESIGNED BY STRUCTURAL ENGINEER.

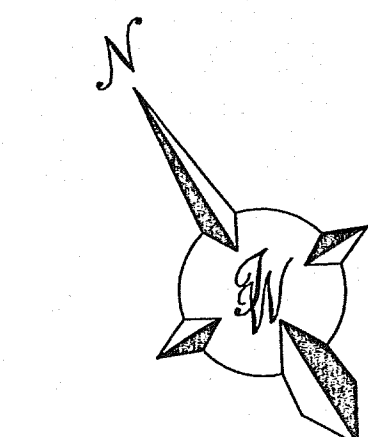
STORM DRAIN LINE TABLE				
LINE	LENGTH	BEARING	SLOPE	PIPE SIZE
L1	58.56	N32°00'00"E	7.50%	8" PVC
L2	226.39	S58°00'00"E	5.00%	8" PVC
L3	61.76	S32°00'00"W	13.57%	8" PVC
L4	95.00	S58°00'00"E	5.00%	8" PVC
L5	58.65	S2°21'27"E	19.90%	8" PVC
L6	50.38	S58°00'00"E	1.00%	12" PVC #6
L7	83.26	S32°00'00"W	1.29%	8" PVC
L8	112.83	S52°54'55"E	1.00%	12" PVC #8
L9	90.08	S58°00'00"E	1.01%	12" PVC #4
L11	146.40	S38°02'57"W	1.00%	8" PVC
L12	72.35	S52°00'09"W	3.93%	8" PVC
L13	73.61	S15°38'24"W	15.13%	18" CLASS IV RCP

STORM DRAIN KEYED NOTES						
#	DESCRIPTION	RIM/GRATE ELEV	INV IN	INV IN	INV OUT	M.W.S.E.
1	TYPE D - DI	5042.50	-	-	5038.50	5043.49
2	TYPE C - MH	5043.50	-	5037.76	5037.66	-
3	TYPE D - DI	5042.05	-	-	5038.05	5042.86
4	TYPE C - MH	5042.10	-	(W)5036.77	(E)5036.67	-
5	TYPE D - DI	5033.30	-	-	5024.65	5033.16
6	TYPE C - MH	5033.35	-	(W)5024.03	(E)5023.93	-
7	TYPE D - DI	5023.32	-	-	5015.55	5024.28
8	TYPE C - MH	5023.96	(N)5014.48	(W)5014.48	(E)5014.38	-
9	TYPE D - DI	5022.61	-	5013.46	2-1/4"	5023.50
10	TYPE C - MH	5022.81	(S)5013.36	(W)5013.36	(E)5013.26	-
11	TYPE D - DI	5022.61	-	-	5013.50	5023.30
12	TYPE C - MH	5023.41	(W)5012.35	(SE)5012.25	-	-
13	TYPE D - DI	5022.67	-	-	5016.75	5023.45
14	TYPE C - MH	5022.86	-	(W)5013.91	(S)5013.81	-

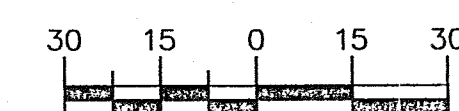
M.W.S.E. = MAXIMUM WATER SURFACE ELEVATION

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.

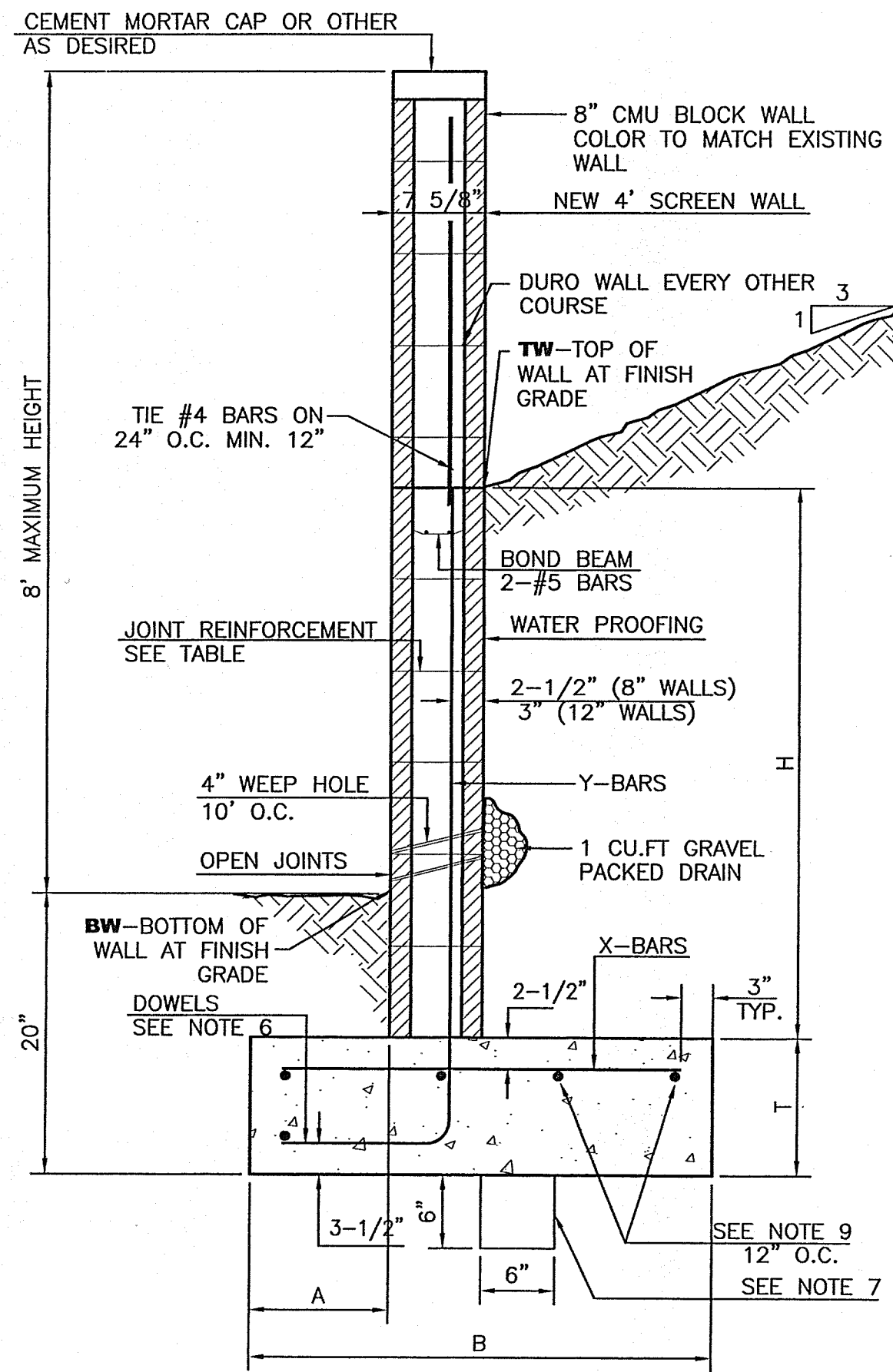


GRAPHIC SCALE

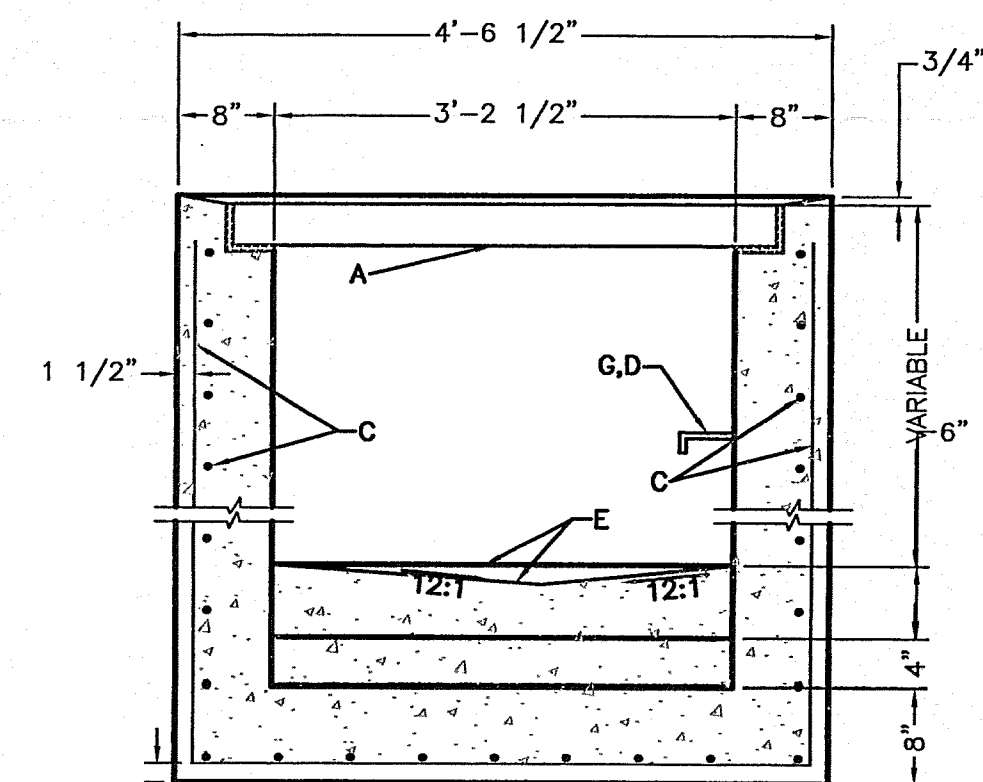


SCALE: 1"=30'

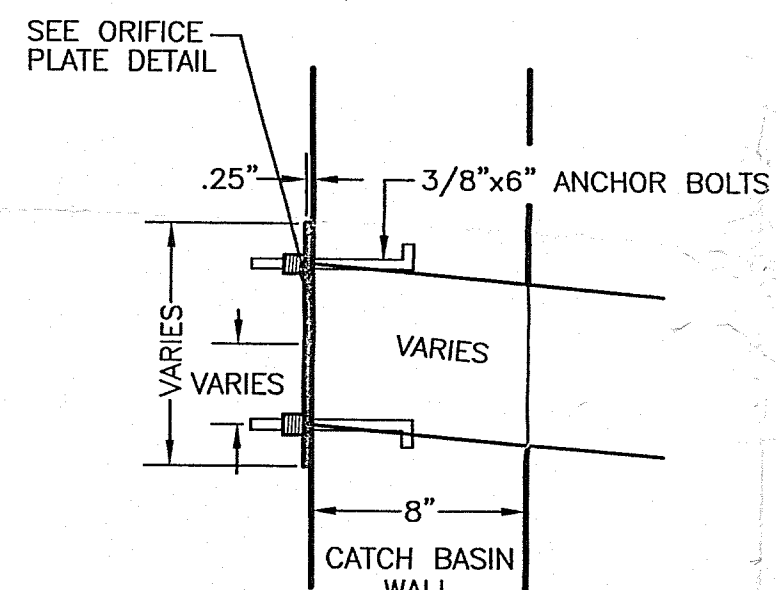
3-16-04		ADDED HEADER CURB		BY
NO.		DATE		REMARKS
REVISIONS				
ENGINEER'S SEAL		ECKERD DRUG PLAZA		DRAWN BY DY
SEAL		GRADING AND DRAINAGE PLAN		DATE 8-18-04
RONALD R. BOHANNAN P.E. #7868		TERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100		2305_EPC_GRT-28-04x
				SHEET # 2 OF 3
				JOB # 230005



RETAINING WALL DETAIL
NTS



TYP. ORIFICE PLATE DETAIL
NTS

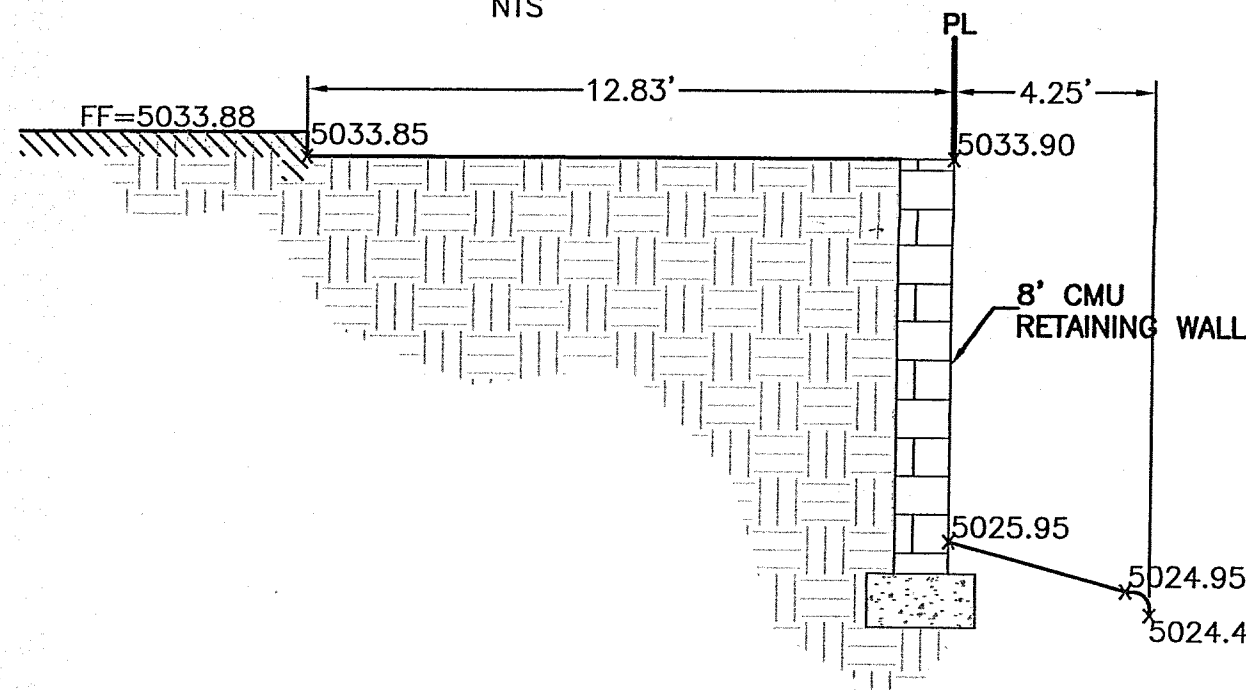


DETAIL A
TO BE INSTALLED @ THE OUTFLOW OF THE CATCH BASINS (SEE THIS PLAN FOR ORIFICE PLATE SIZES)

CONSTRUCTION NOTES:

- FRAME & GRATE
- CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
- NO. 4 BARS @ 6" O.C. EACH WAY
- USE STANDARD STEPS, SEE DWG 2229.
- CONC. FILL, SEE NOTE C DWG 2201
- INVERT PER DESIGN
- INSTALL STEPS ON DOWNSTREAM FACE
- CENTER SUPPORT ASSEMBLY
- ORIFACE PLATE PER DESIGN

D-INLET DETAILS
NTS



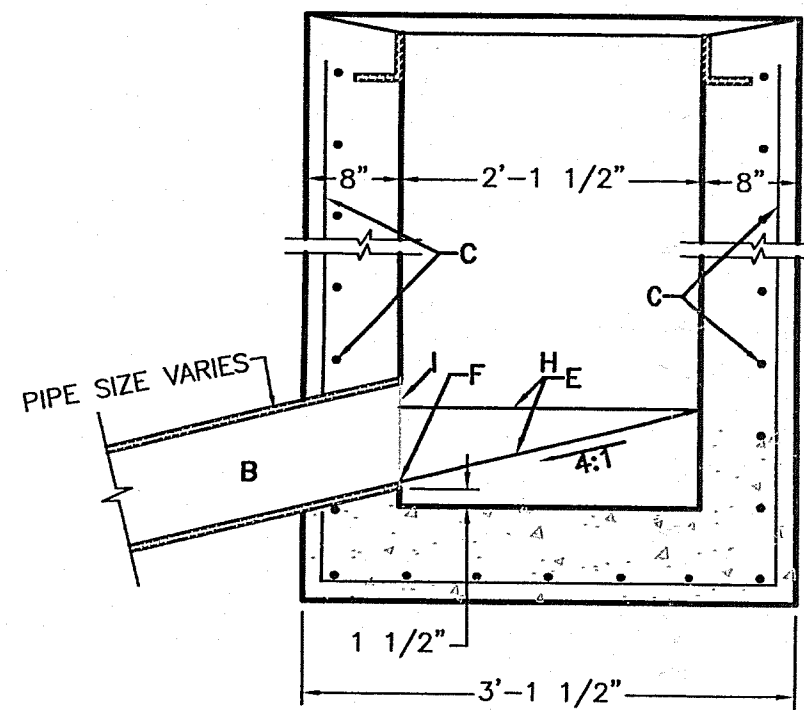
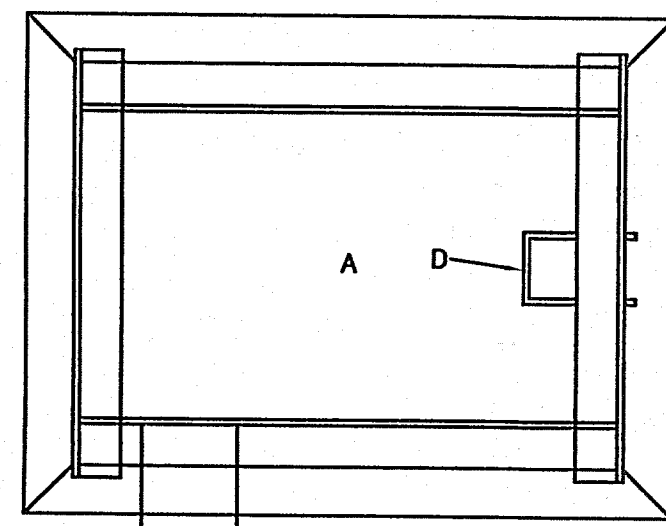
SECTION A-A
NTS

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'-9"	9"	#3 @32" O.C.	#3 @27" O.C.	
3'-4"	2'-5"	8"	2'-4"	9"	#3 @32" O.C.	#3 @27" O.C.	
4'-0"	3'-1"	10"	2'-9"	9"	#4 @32" O.C.	#3 @27" O.C.	
4'-8"	3'-10"	12"	3'-4"	10"	#4 @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 DUREO-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.
- 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 LESS THAN 2'-8" IN HEIGHT.
- #4 BARS TO BE USED ON WALLS GREATER THAN OR EQUAL TO 2'-8"
- X BARS TO BE USED ON WALLS EXCEEDING 2'-8"
- 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".

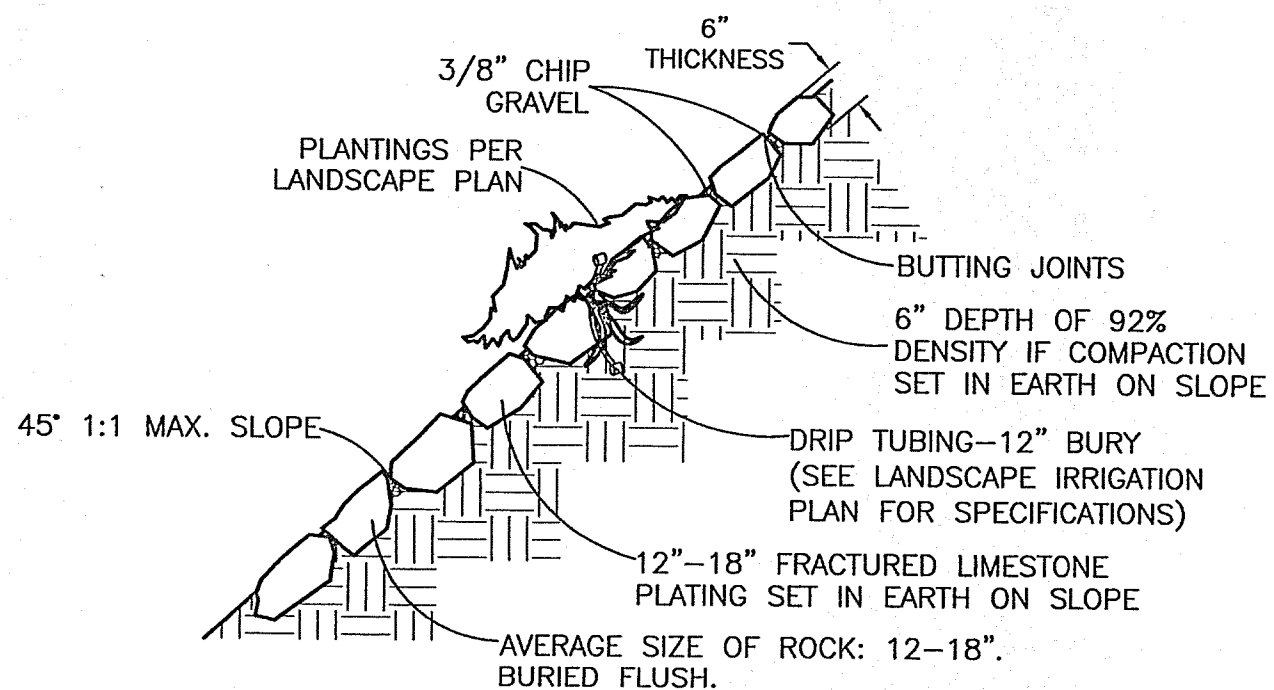


GENERAL NOTES:

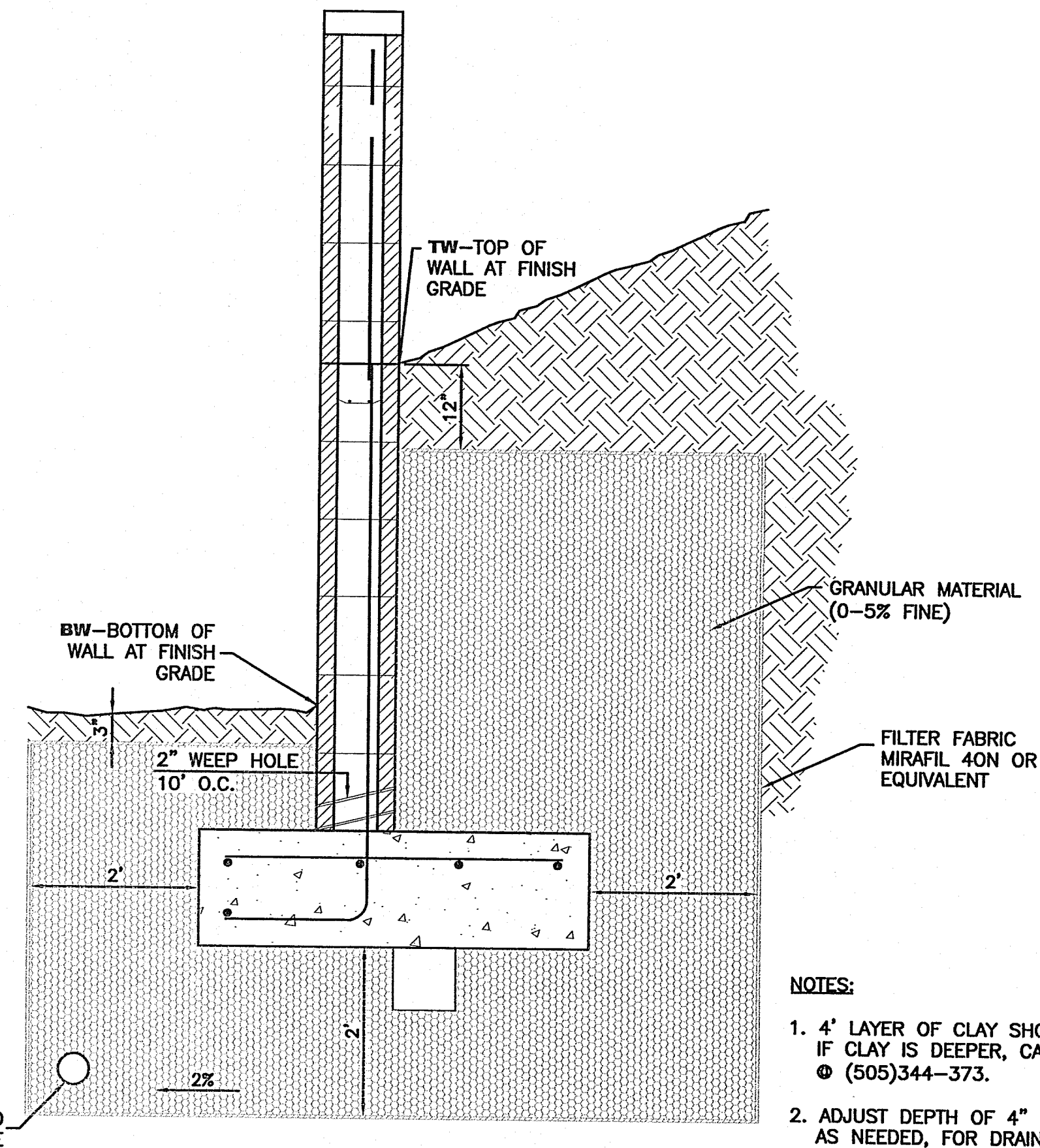
- STORM INLET CUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
- OUTLET PIPE, PER DESIGN REQUIREMENT.
- FOR FRAME & GRATING, SEE DWG. 2216, 2220 & 2221

CONSTRUCTION NOTES:

- FRAME & GRATE
- CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
- NO. 4 BARS @ 6" O.C. EACH WAY
- USE STANDARD STEPS, SEE DWG 2229.
- CONC. FILL, SEE NOTE C DWG 2201
- INVERT PER DESIGN
- INSTALL STEPS ON DOWNSTREAM FACE
- CENTER SUPPORT ASSEMBLY
- ORIFACE PLATE PER DESIGN

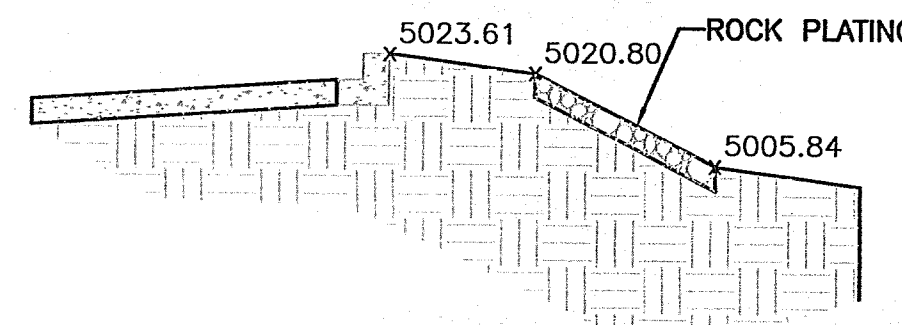


ROCK PLATING DETAIL
GREY LIMESTONE
NTS

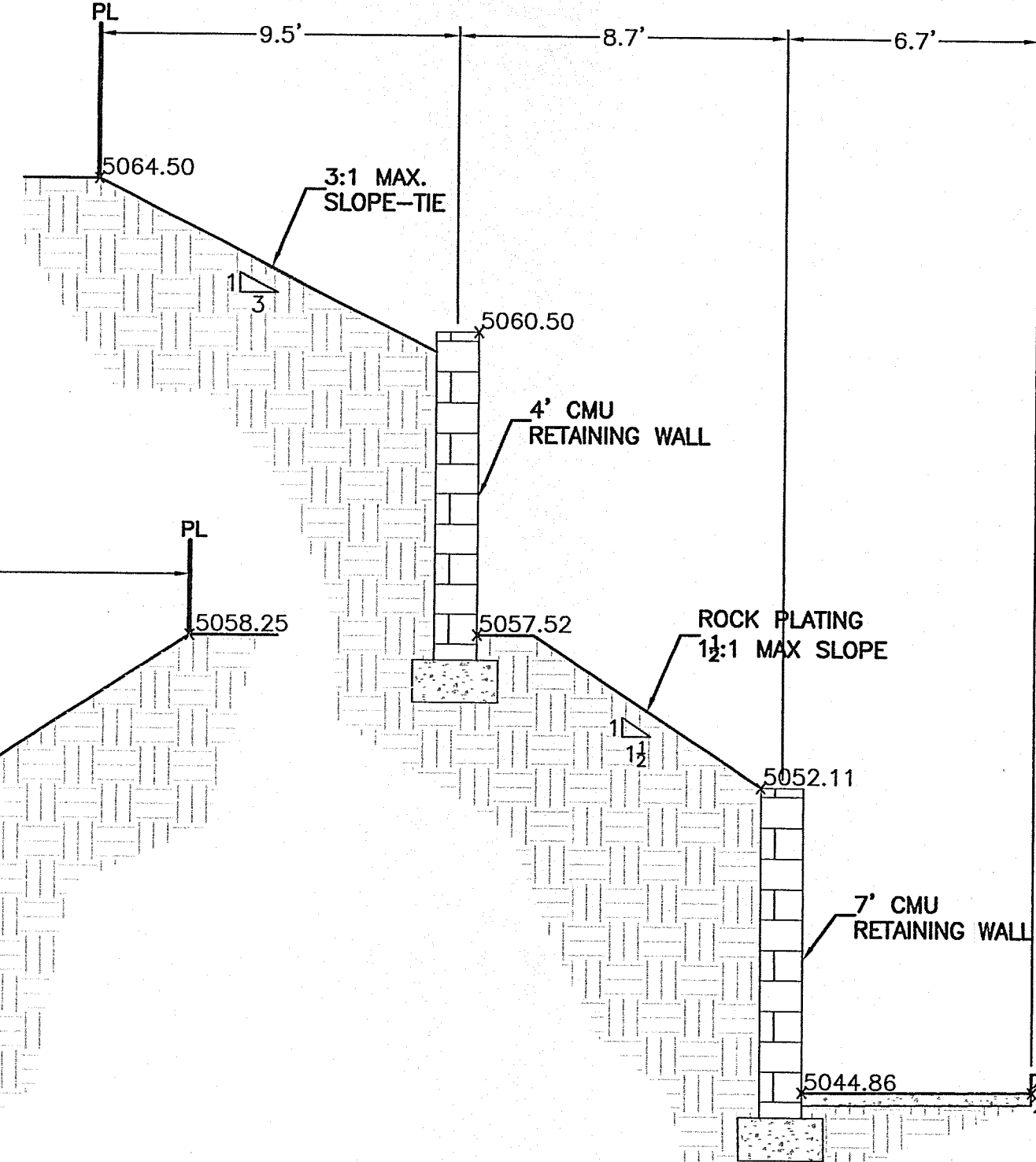


- NOTES:**
- 4" LAYER OF CLAY SHOULD BE REMOVED. IF CLAY IS DEEPER, CALL KLEINFELDER @ (505)344-373.
 - ADJUST DEPTH OF 4" PERFORATED PIPE, AS NEEDED, FOR DRAINAGE.

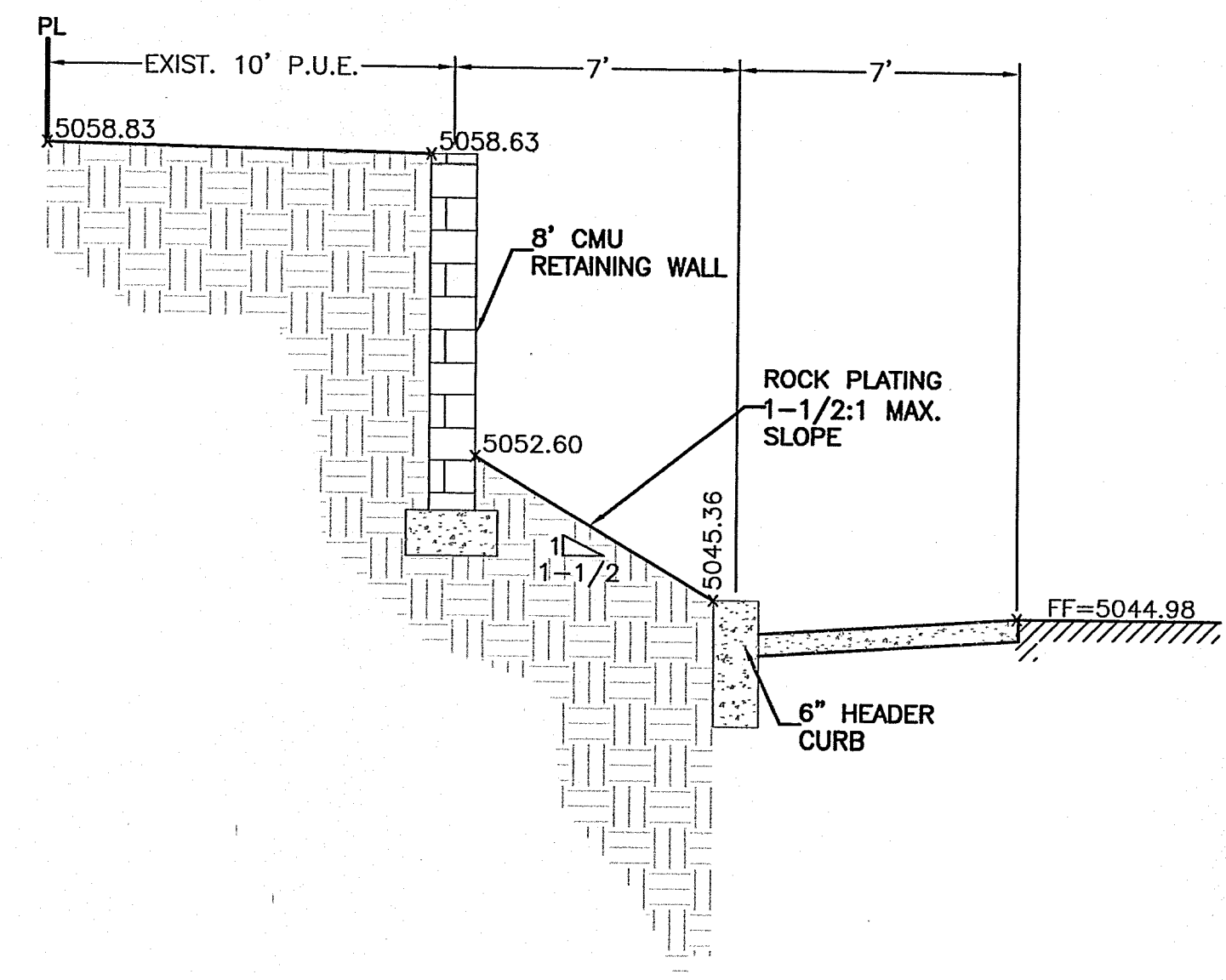
RETAINING WALL DETAIL FOR B-B, C-C
NTS



SECTION F-F
NTS



SECTION D-D
NTS



SECTION E-E
NTS

	ECKERD DRUG PLAZA	DRAWN BY MP
	RETAINING WALL DETAILS	DATE 8-18-04
	TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	SHEET # 3 OF 3
		JOB # 230005