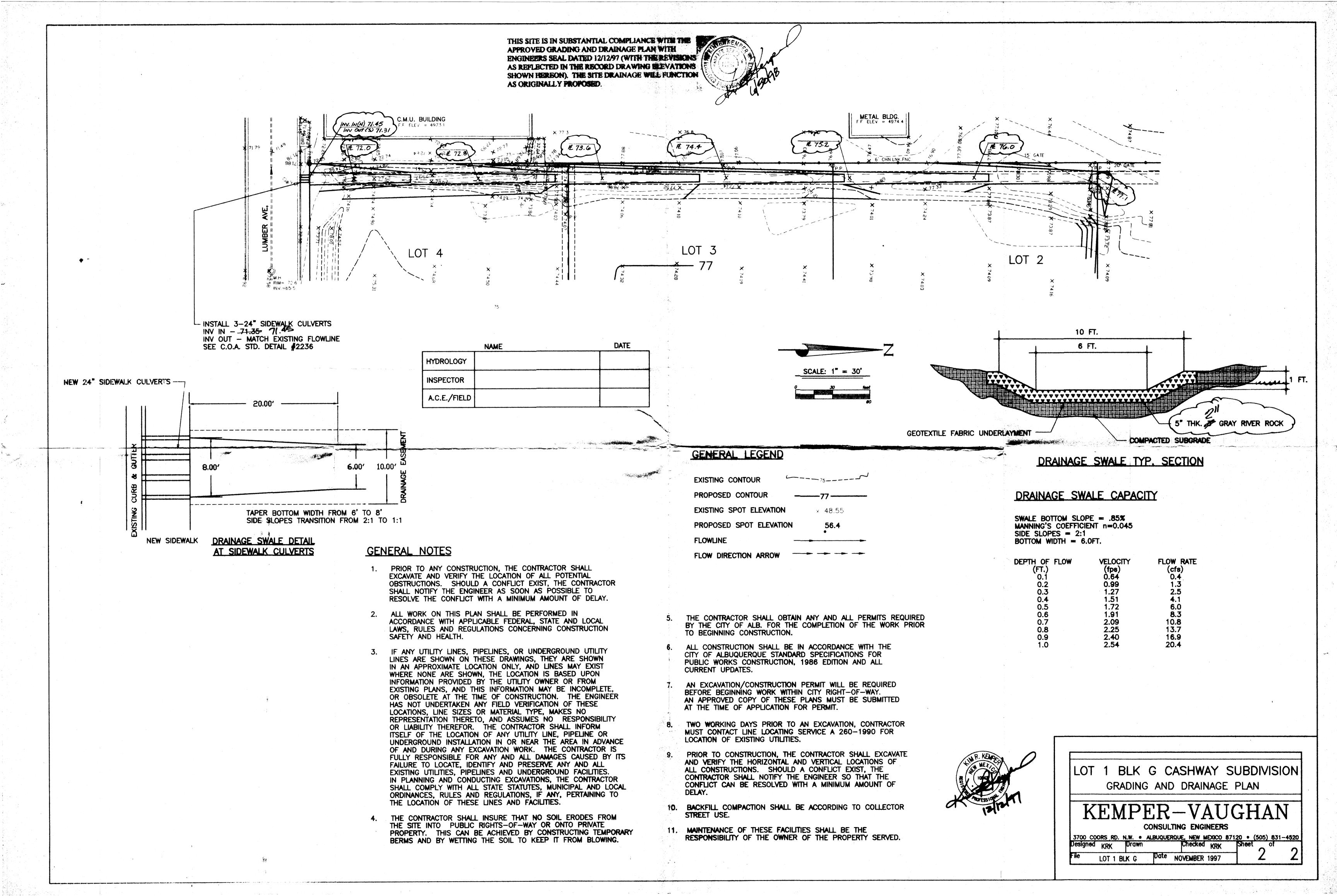
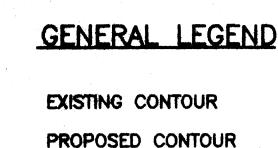


CONDITIONS THAT EXIST IN THE FIELD.

LOT 1 BLK G

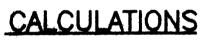




EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION FLOWLINE FLOW DIRECTION ARROY PROPOSED CONCRETE TOP OF CURB ELEVATION

TOP OF WALL ELEVATION

FLOWLINE ELEVATION TOP OF ASPHALT POWER POLE ROOF DRAIN/DOWN SPOUT D.S.



THE FOLLOWING CALCULATIONS WERE DEVELOPED USING THE CITY OF ALBUQUERQUE DPM SECTION 22.2

SITE CHARACTERISTICS: SITE LOCATION: ZONE 2 PRECIPITATION: P = 2.60 inches

LAND TREATMENT: UNCOMPACTED SOIL - TREATMENT A LANDSCAPE - TREATMENT B COMPACTED SOIL - TREATMENT C BUILDINGS & PAVING - TREATMENT D

EXCESS PRECIPITATION: TREATMENT A E = 0.53 inches TREATMENT B E = 0.78 inches TREATMENT C E = 1.13 inches TREATMENT D E = 2.12 inches

PEAK DISCHARGE: TREATMENT A = 1.56 cfs/acreTREATMENT B = 2.28 cfs/acreTREATMENT C = 3.14 cfs/acre

TREATMENT D = 4.70 cfs/acre

AREA DRAINING TO LUMBER

				EXISTING	PROPOSED			
TOTAL AREA	==	0.595 AC.						
TREATMENT A	=	0.00 AC.	=	0.0%	0.00	AC. =	0.0%	
TREATMENT B	=	0.00 AC	32	0.0%	0.083	AC. =	13.9%	
TREATMENT C	=	0.595 AC.	=	100.0%	0.00	AC. =	0.0%	
TREATMENT D	=	0.00 AC	=	0.0%	0.512	AC. =	86.1%	

ONSITE - EXCESS PRECIPITATION & VOLUMETRIC RUNOFF: EXISTING RUNOFF:

WEIGHTED E=[(0.53)(0.00)+(0.78)(0.00)+(1.13)(0.595)+(2.12)(0.00)]/0.595= 1.13 inches

V100-6hr = (1.13)(0.595)/12 = 0.0575acre ft = 2,500 cf**DEVELOPED RUNOFF:**

WEIGHTED E=[(0.53)(0.00)+(0.78)(0.083)+(1.13)(0.00)+(2.12)(0.512)]/0.595= 1.93 inches

V100-6hr = (1.93)(0.595)/12 = 0.0957 acre ft = 4,170 cf

TOTAL EXISTING VOLUMETRIC RUNOFF FROM SITE = 6,580 cf

ONSITE - PEAK DISCHARGE: **EXISTING DISCHARGE:**

Q100 = (1.56)(0.00) + (2.28)(0.00) + (3.14)(0.595) + (4.70)(0.00) = 1.86 cfsDEVELOPED DISCHARGE:

Q100 = (1.56)(0.00) + (2.28)(0.083) + (3.14)(0.00) + (4.70)(0.512) = 2.59 cfs

RESULTS:

TOTAL PROPOSED VOLUMETRIC RUNOFF FROM SITE = 10,740 cf TOTAL EXISTING PEAK DISCHARGE FROM SITE = 4.98 cfs TOTAL PROPOSED PEAK DISCHARGE FROM SITE = 6.73 cfs REQUIREMENTS OF THE APPROVED SUBDIVISION CONCEPTUAL DRAINAGE PLAN (FILE F17-D70) LIMITS DISCHARGE TO MCLEOD TO 4.60 cfs. THIS REQUIREMENT HAS BEEN MET. THE REMAINING RUNOFF SHALL BE DIRECTED TO LUMBER AVE. AS SUCH THE CONSTRUCTION OF THE PROPOSED DRAINAGE SWALE SHOWN ON THE CONCEPTUAL PLAN SHALL BE CONSTRUCTED WITH THIS PROJECT. THIS IMPROVEMENT IS LIKELY TEMPORARY PENDING THE DEVELOPMENT OF THE REMAINING PARCELS IN THE SUBDIVISION. (SEE SHEET 2 OF THIS PLAN)

BENCH MARK A.C.S. BENCHMARK REFERENCE: STATION "9-F18", A BRASS CAP IN MEDIAN ON SAN MATEO BLVD. NORTH OF MONTGOMERY ROAD. ELEVATION = 5209.56LEGAL DESCRIPTION TC75.50 FL75.00 LOT 1, BLOCK G OF THE PLAT OF CASHWAY BUILDING MATERIALS, INC., ALLWOODS SUBDIVISION. NEW BUILDING F.F.=4980.00 PROVIDE 4" PVC-DRAIN THROUGH ONE FOOT CONTOUR INTERVAL ADD 4900 FEET TO ELEVATIONS SHOWN DUMPSTER ENCLOSURE - PROVIDE 2' OPENING IN CURB AT CORNER SEE SHT. 2 FOR CONTINUATION OF SWALE GRADING PROPOSED IMPROVEMENTS SITE PLAN SITE TBM ---SOUTH EDGE OF MANHOLE

AREA DRAINING TO MCLEOD

TOTAL ADEA			0.004	40		EXISTING	PROPOSED				
	TOTAL AREA		=	0.994	AC.						
	TREATMENT	A	=	0.00	AC.	=	0.0%	0.00	AC.	= .	0.0%
	TREATMENT	В	:::	0.00	AC.	===	0.0%	0.220	AC.	=	22.1%
	TREATMENT	С	-	0.994	AC.	=	100.0%	0.00	AC.	=	0.0%
	TREATMENT	D	#	0.00	AC.	302	0.0%	0.774	AC.	=	77.9%

ONSITE - EXCESS PRECIPITATION & VOLUMETRIC RUNOFF: **EXISTING RUNOFF:**

WEIGHTED E=[(0.53)(0.00)+(0.78)(0.00)+(1.13)(0.994)+(2.12)(0.00)]/0.994= 1.13 inches

V100-6hr = (1.13)(0.994)/12 = 0.0936 acre ft = 4,080 cf **DEVELOPED RUNOFF:**

WEIGHTED E=[(0.53)(0.00)+(0.78)(0.220)+(1.13)(0.00)+(2.12)(0.774)]/0.994= 1.82 inches

V100-6hr = (1.82)(0.994)/12 = 0.1507acre ft = 6,570 cf

ONSITE - PEAK DISCHARGE:

EXISTING DISCHARGE:

Q100 = (1.56)(0.00) + (2.28)(0.00) + (3.14)(0.994) + (4.70)(0.00) = 3.12 cfsDEVELOPED DISCHARGE:

Q100 = (1.56)(0.00) + (2.28)(0.220) + (3.14)(0.00) + (4.70)(0.774) = 4.14 cfs

DRAINAGE PLAN

CURRENTLY THE SUBJECT SITE IS UNDEVELOPED. APPROXIMATELY 90 PERCENT OF THE SITE DRAINS TO McLEOD ROAD AND THE REMAINING 10 PERCENT DRAINS TO LUMBER AVE. (IN THE UNDEVELOPED CONDITION).

RIM IN HARDWARE DRIVE.

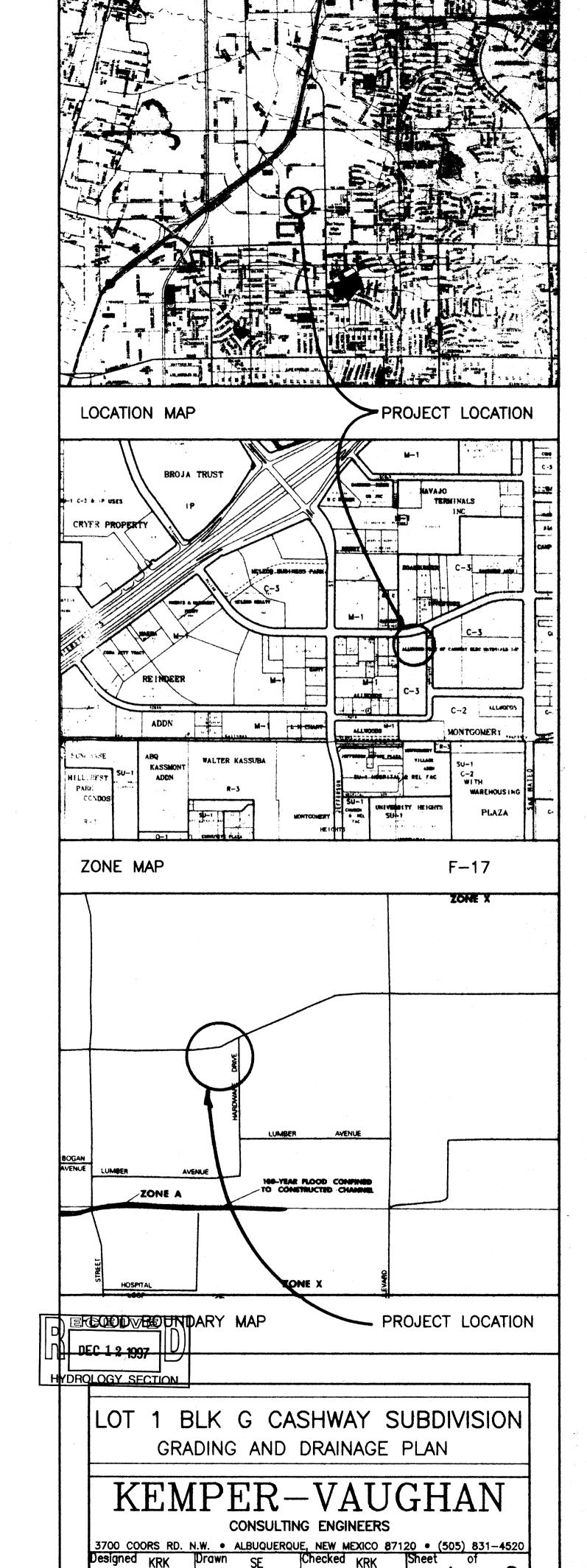
ELEVATION = 4982.43

A CONCEPTUAL GRADING AND DRAINAGE PLAN WAS PREPARED AND APPROVED FOR THIS SUBDIVISION - COA FILE F17-D70. DUE TO LIMITED DOWNSTREAM CAPACITY ON McLEOD ROAD, DISCHARGE WAS LIMITED TO THE DESIGN STORM RUNOFF IN AN UNDEVELOPED CONDITION. THIS PEAK DISCHARGE LIMITATION WAS 4.6 cfs. THIS PLAN ACTUAL REDUCES THE PEAK DISCHARGE IN A DESIGN STORM TO McLEOD.

THE DESIGN STORM RUNOFF THAT WILL DISCHARGE FROM THIS SITE IS SLIGHTLY HIGHER THAN THAT IDENTIFIED ON THE CONCEPTUAL PLAN. THERE IS AMPLE CAPACITY IN THE DRAINAGE SWALE, LUMBER AVE. AND THE DOWNSTREAM STORM DRAIN FACILITIES FOR THIS RUNOFF.

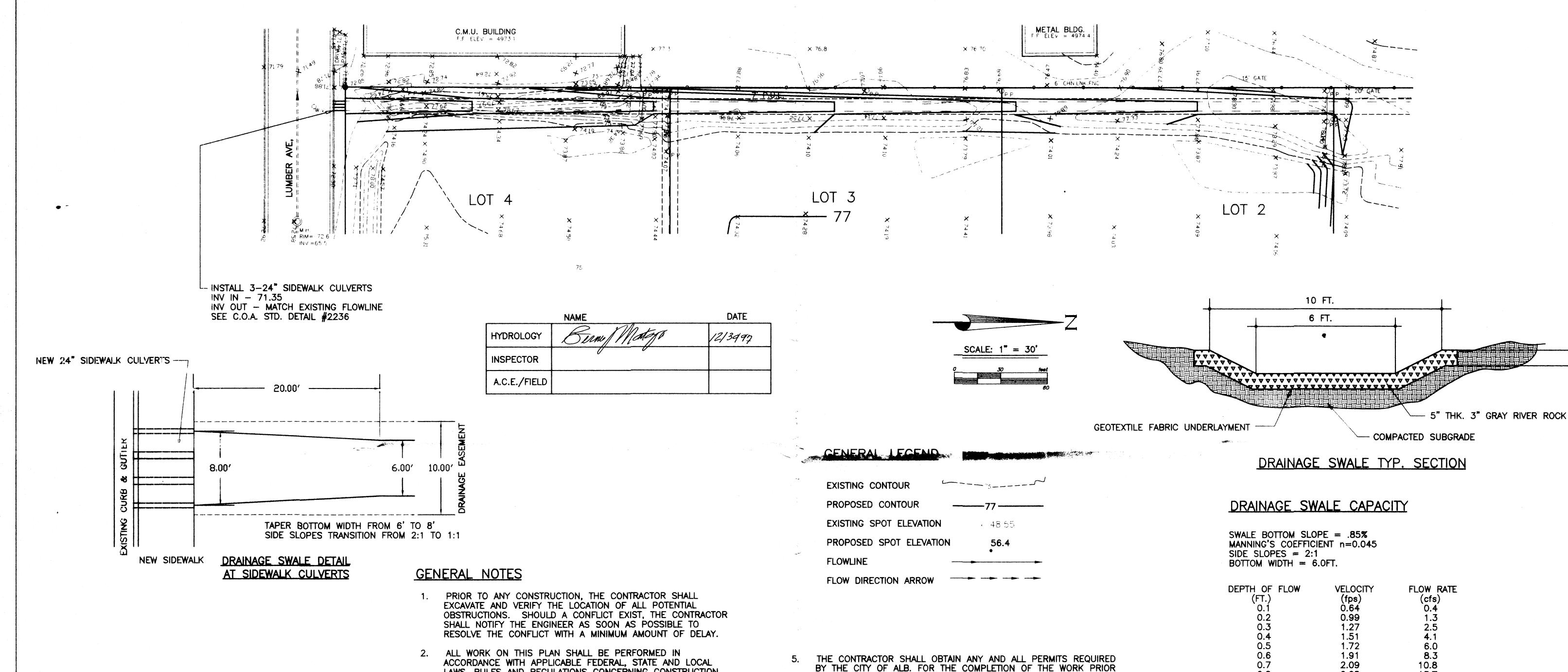
THE CONCEPTUAL PLAN IDENTIFIES THE CONSTRUCTION OF A DRAINAGE SWALE WITHIN A PRIVATE DRAINAGE EASEMENT ALONG THE WESTERN BOUNDARY OF BLOCK G. THE DEVELOPMENT OF THIS PARCEL WILL REQUIRE THAT THIS SWALE BE CONSTRUCTED NOW. SEE SHEET 2 OF THIS PLAN FOR DETAILS OF THIS CONSTRUCTION. ALL FOUR PARCELS ARE IN COMMON OWNERSHIP, SEGO LIMITED PARTNERSHIP.

THE EXISTING SURVEY INFORMATION SHOWN HEREON WAS PREPARED FROM A FIELD SURVEY DONE BY RIO GRANDE SURVEYING CO., INC., IN AUGUST OF 1997. A SUBSEQUENT FIELD REVIEW BY THIS OFFICE REVEALED THAT THE INFORMATION SHOWN HEREON IS CONSISTENT WITH THE ACTUAL CONDITIONS THAT EXIST IN THE FIELD.



Date NOVEMBER 1997

LOT 1 BLK G



TO BEGINNING CONSTRUCTION.

LOCATION OF EXISTING UTILITIES.

CURRENT UPDATES.

DELAY.

STREET USE.

6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE

CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR

PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND ALL

7. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED

AT THE TIME OF APPLICATION FOR PERMIT.

BEFORE BEGINNING WORK WITHIN CITY RIGHT-OF-WAY.

AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED

TWO WORKING DAYS PRIOR TO AN EXCAVATION, CONTRACTOR

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE

AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF

ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE

10. BACKFILL COMPACTION SHALL BE ACCORDING TO COLLECTOR

RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

11. MAINTENANCE OF THESE FACILITIES SHALL BE THE

CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE

CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF

MUST CONTACT LINE LOCATING SERVICE A 260-1990 FOR

LAWS. RULES AND REGULATIONS CONCERNING CONSTRUCTION

LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN

IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST

EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE,

OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER

REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY

UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF AND DURING ANY EXCAVATION WORK. THE CONTRACTOR IS

FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS

WHERE NONE ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM

HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE

OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM

ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR

FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL

EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES.

THE LOCATION OF THESE LINES AND FACILITIES.

IN PLANNING AND CONDUCTING EXCAVATIONS, THE CONTRACTOR

SHALL COMPLY WITH ALL STATE STATUTES, MUNICIPAL AND LOCAL

ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO

THE CONTRACTOR SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHTS-OF-WAY OR ONTO PRIVATE

BERMS AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING.

PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY

LOCATIONS, LINE SIZES OR MATERIAL TYPE, MAKES NO

3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY

SAFETY AND HEALTH.



10.8 2.25 13.7 16.9 2.40 2.54 20.4



BLK G CASHWAY SUBDIVISION GRADING AND DRAINAGE PLAN

KEMPER-VAUGHAN

CONSULTING ENGINEERS

3700 COORS RD. N.W. • ALBUQUERQUE, NEW MEXICO 87120 • (505) 831-4520 Designed KRK Checked KRK Date NOVEMBER 1997 LOT 1 BLK G