

• L E G E N D •

MATERIALS

CONCRETE
RIP-RAP

LINES

SUBDIVISION BOUNDARY
PROPERTY LINE (PLAN)
PROPERTY LINE (SECTION)
CENTERLINE
EASEMENT LINE
MATCH LINE
SECTION CUT LINE

EARTHWORK

CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
SWALE
DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRICAL
STORM DRAIN
STORM DRAIN MANHOLE
STORM DRAIN INLET

SANITARY SEWER

SANITARY SEWER LINE
SANITARY SEWER MANHOLE
SAS SERVICE CONNECTIONS
SAS CAP OR PLUG
ENCASEMENT

WATER

WATER LINE
WATER SERVICE CONNECTIONS
GATE VALVE
FIRE HYDRANT
BUTTERFLY VALVE
REDUCER
WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE

MISCELLANEOUS

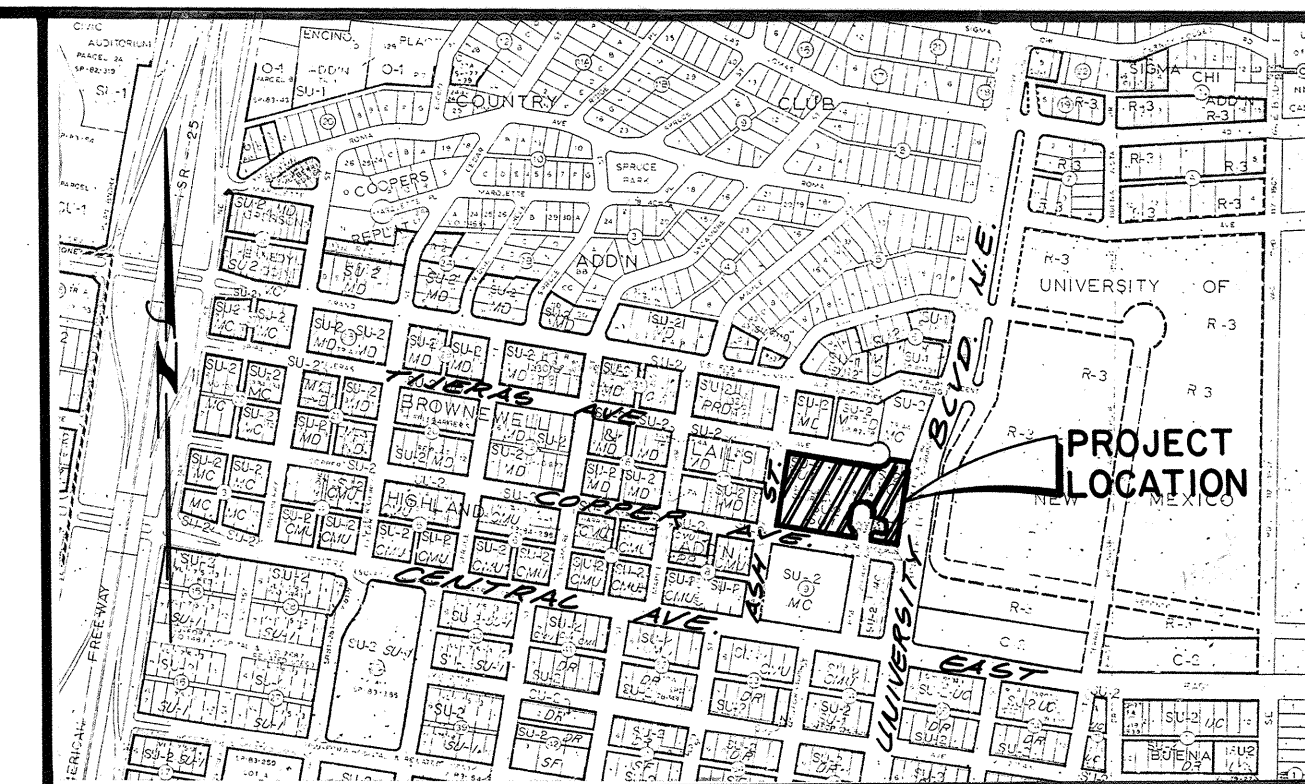
CHAINLINK FENCE
FIELD FENCE
COMMON YARD WALL
RETAINING WALL
POWER OR TELEPHONE POLE

CONSTRUCTION PLANS
FOR

UNITED METHODIST CHURCH
PINE STREET N.E. MODIFICATIONS

INDEX OF DRAWINGS

1. COVER SHEET, INDEX OF DRAWINGS, GENERAL NOTES & LEGEND
2. FINAL PLAT
3. DEMOLITION PLAN
4. GRADING & DRAINAGE PLAN
5. PAVING & STORM DRAINAGE PLAN & PROFILE
6. DETAILS & SECTIONS



VICINITY MAP
SCALE: 1" = 800'

K-15

United Methodist Church
Pine St N.E. Modifications
3214

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1985.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
7. THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT 48 HOURS PRIOR TO CONSTRUCTION.
8. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
9. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
10. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
11. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
12. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
13. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FID
DATE 8-10-87

SCANNED BY

26 32140187

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

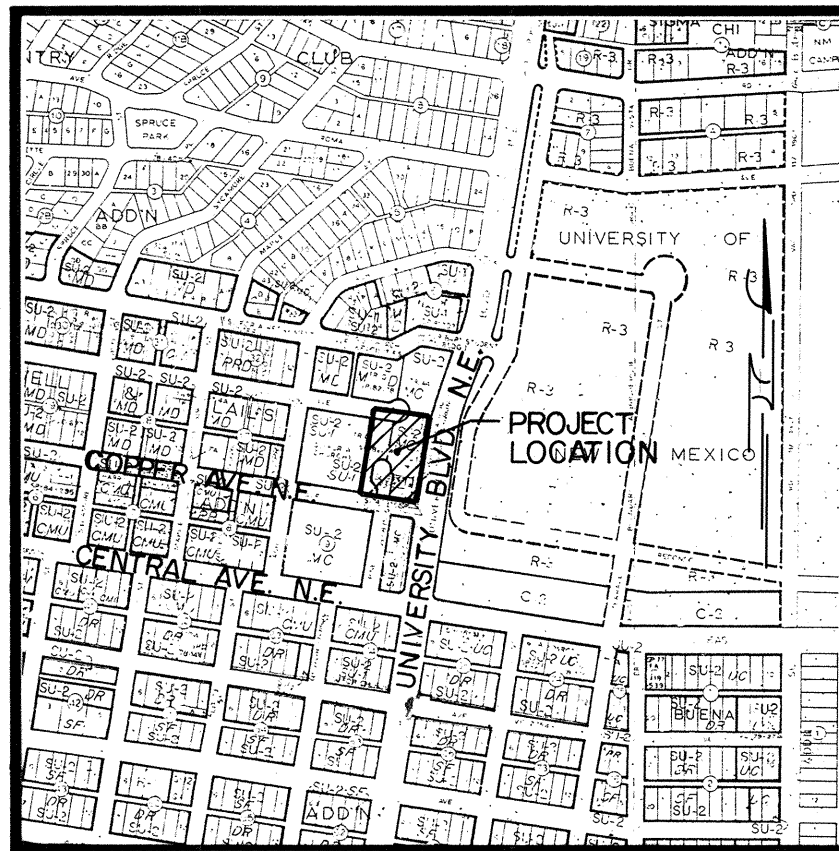
APPROVAL OF REVISIONS

APPROVED FOR AS BUILT DRAWINGS
ASST. CITY ENGINEER - FID
DATE 8-10-87

APPROVED FOR CONSTRUCTION
C.E.

3214

SHEET 1 OF 6

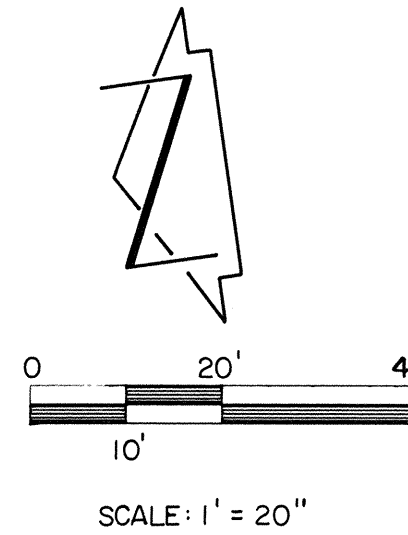


VICINITY MAP
SCALE: 1" = 800'

PROJECT BENCHMARK:
THE STATION MARK IS A STANDARD
ACS ALUMINUM CAP STAMPED
"2-K15 1983" SET FLUSH WITH THE
CURB AT THE INTERSECTION OF
CENTRAL AVE. AND UNIVERSITY
BLVD.
ELEVATION: 5133.97 FEET (M.S.L.D.)

T.B.M.:
TOP OF CURB LOCATED AT THE
N.E. CORNER OF EXIST. BLDG. AS
SHOWN HEREON.
ELEVATION: 5133.80 FEET (M.S.L.D.)

LEGAL DESCRIPTION:
TRACT C-1, BLOCK 15 & A PORTION
OF BLOCK 16 OF BROWNEWELL
+ LAIL'S HIGH LAND ADDITION.

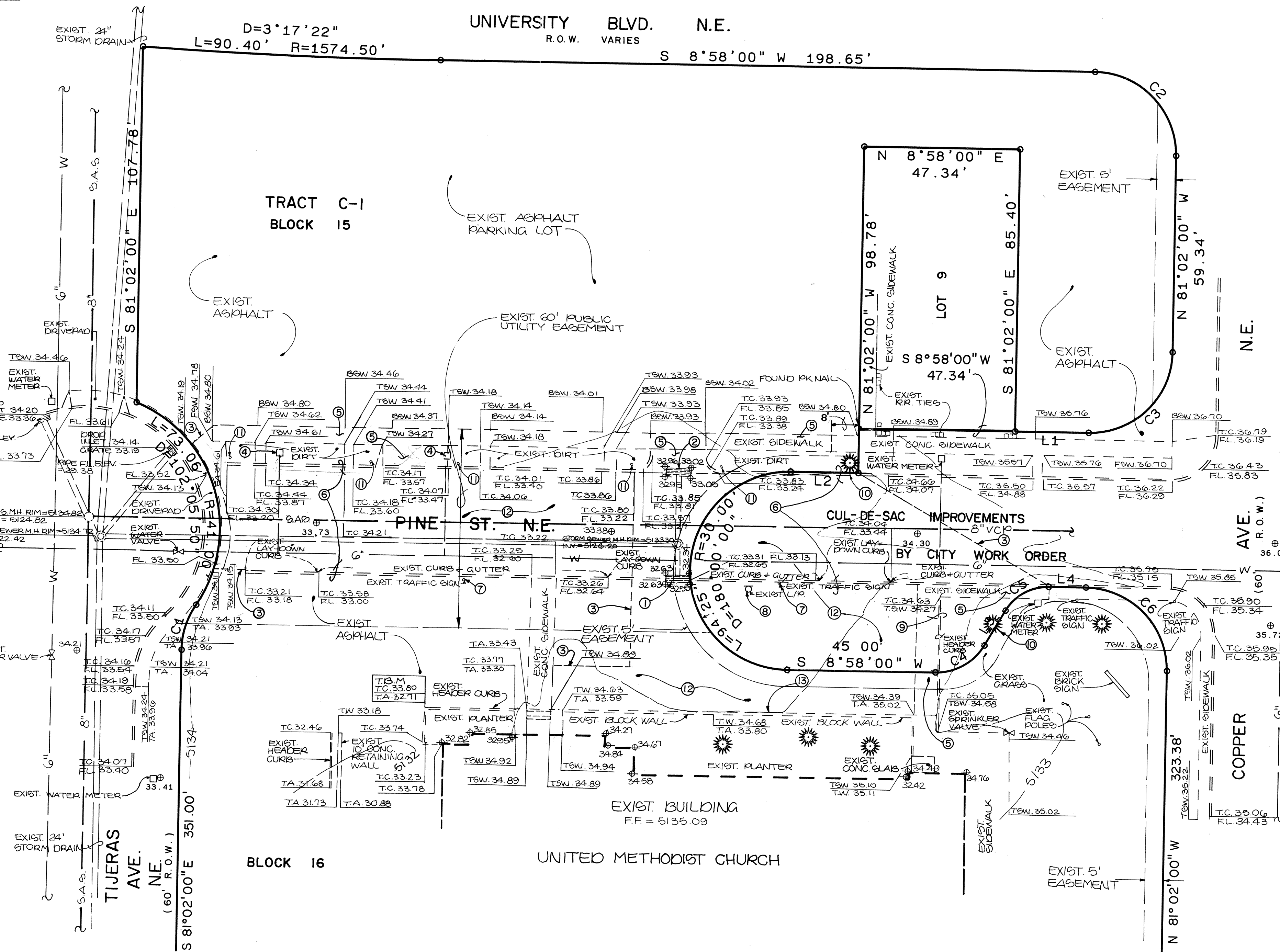


LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING CONCRETE
- TOP OF CURB
- FLOW LINE
- PINE TREES

LINE	BEARING	DISTANCE
L1	N 8°58'00" E	28.33
L2	N 8°58'00" E	20.34
L3	S 81°02'00" W	11.42
L4	S 8°58'00" W	11.29

CURVE	ARC	DELTA	RADIUS
C1	14.64	33°33'26"	25.00
C2	39.27	90°00'00"	25.00
C3	39.27	90°00'00"	25.00
C4	17.60	60°00'00"	17.00
C5	15.71	60°00'00"	15.00
C6	39.27	90°00'00"	25.00



KEYED NOTES

- 1 REMOVE AND DISPOSE OF EXISTING STORM INLET INCLUDING LATERAL FROM MANHOLE TO INLET.
- 2 REMOVE AND DISPOSE OF EXISTING STORM INLET INCLUDING LATERAL FROM MANHOLE TO INLET AND REPAIR MANHOLE AS NECESSARY.
- 3 NEATLY SAWCUT EXISTING ASPHALT PAVING.
- 4 REMOVE AND DISPOSE OF EXISTING WATER METER BOX.
- 5 REMOVE AND DISPOSE OF EXISTING SIDEWALKS AND DRIVEPADS.
- 6 REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER (BOTH SIDES).
- 7 EXISTING STREET SIGN TO BE REMOVED AND RETURNED TO CITY YARD.
- 8 EXISTING LIGHT POLE TO BE RELOCATED BY P.N.M.
- 9 REMOVE AND DISPOSE OF EXISTING HEADER CURB.
- 10 EXISTING TREE TO BE REMOVED.
- 11 REMOVE EXISTING POSTS AND RETURN TO CHURCH.
- 12 REMOVE AND DISPOSE OF EXISTING PAVING.
- 13 REMOVE EXISTING CONCRETE WHEEL STOPS AND RETURN TO CHURCH.

NOTE:
EXISTING ASPHALT PAVING CAN BE OBLITERATED AND INCORPORATED INTO THE SUBGRADE PREPARATION IN LIEU OF REMOVING & DISPOSING THE EXISTING ASPHALT PAVING.



811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110
ENGINEERS

NO.	DATE	BY	REVISIONS

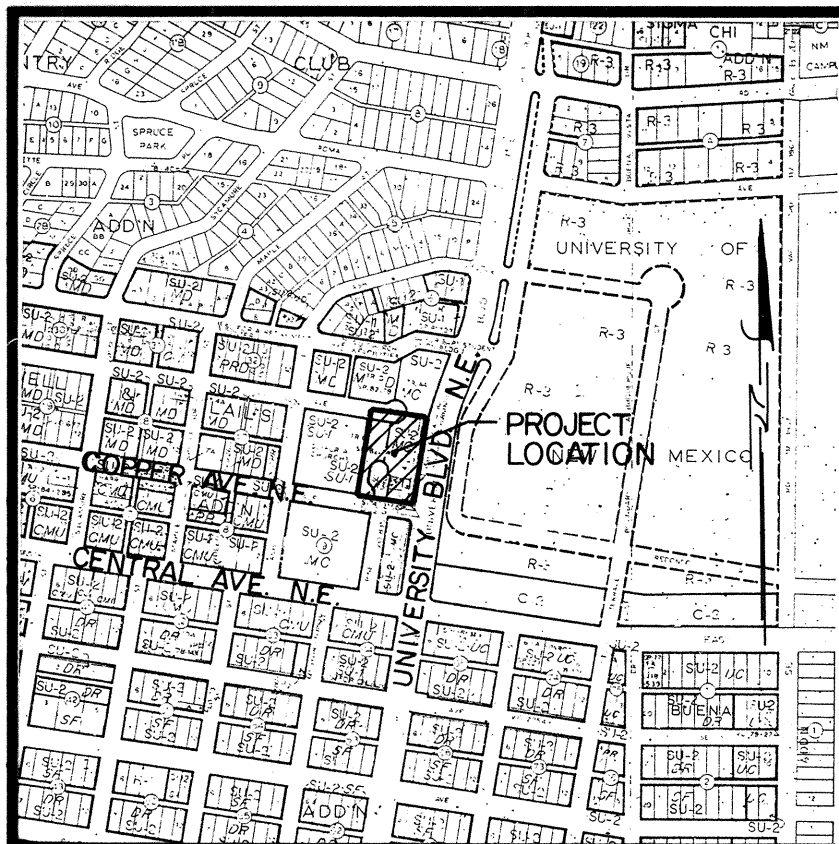
DESIGNED BY: J.G.M.
DRAWN BY: R.A.R.
APPROVED: J.G.M.

JOB NO.
40556
DATE
02/87

DEMOLITION PLAN UNITED METHODIST CHURCH PINE STREET N.E. IMPROVEMENTS

3214

SHEET 3 OF 6



VICINITY MAP
SCALE: 1" = 800'

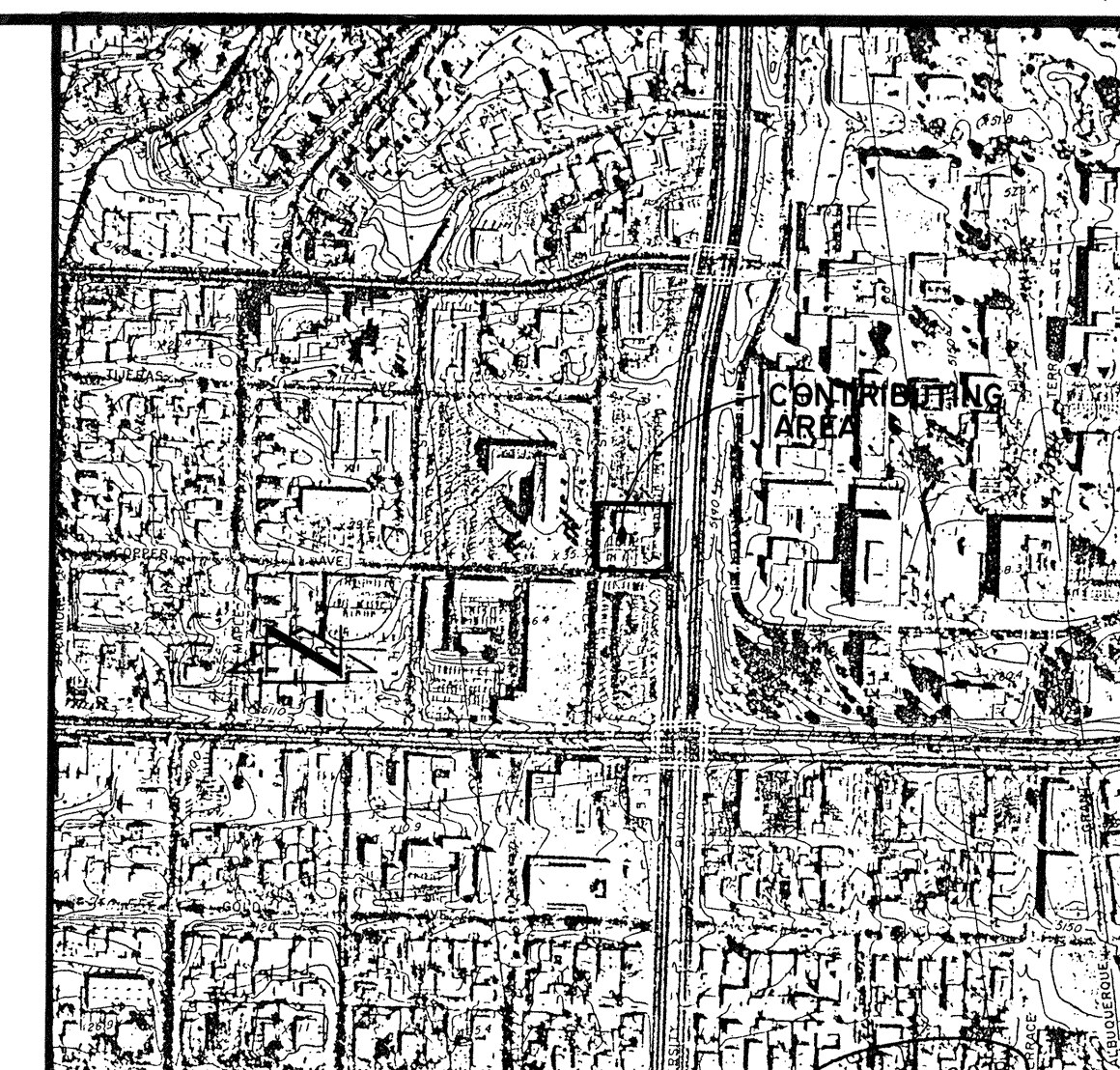
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& LAUD'S HIGH LAND ADDITION.

DRAINAGE PLAN
The majority of Pine Street between Tijeras Avenue N.E. and Copper Avenue N.E. has been vacated. A subsequent plat dedicated a cul-de-sac within the Pine Street Alignment, intersecting with Copper Avenue N.E., to serve the United Methodist Church. It is the intent of this plan to develop that cul-de-sac. This will require that the existing public storm drain improvements within the vacated Pine Street N.E. be modified to conform to the new cul-de-sac geometry. The calculations which appear below quantify the runoff contribution to the cul-de-sac. These calculations show that only 4.2 cfs is anticipated which can easily be handled by the installation of a double 'c' storm inlet whereas a portion of Copper Avenue N.E. and adjacent lands to the east will drain to the cul-de-sac, the vacated Pine Street will be regraded and repaved so that they will not contribute runoff to the cul-de-sac. This reduction in contributing area justifies the reduction of the number of storm inlets from the existing to two to one storm inlet.

The calculations which appear below are based upon the developed condition only. These calculations have been performed based upon the City of Albuquerque Development Process Manual, Volume II, combined with the Mayor's Emergency Rule adopted January 14, 1986. These calculations assume that 90% of the contributing area is impervious and that the remaining 10% is pervious, landscaped area. Runoff coefficient of 0.95 and 0.25 have been used in this analysis, respectively.



WATERSHED MAP
SCALE: 1" = 400'

CALCULATIONS

Ground Cover Information

From SCS Bernalillo County Soil Survey,
Plate 31: Cu - Cut and Fill Land
Hydrologic Soil Group: A
Existing Pervious CN = 49 (DPM Plate 22.2 C-2
Open Space: fair condition)

Time of Concentration/Time to Peak

$T_c = 0.0078 L^{0.77} / S^{0.385}$ (Kirpich Equation)

$T_p = T_c = 10$ min.

Point Rainfall

$P_6 = 2.25$ in. (DPM Plate 22.2 D-1)

Rational Method

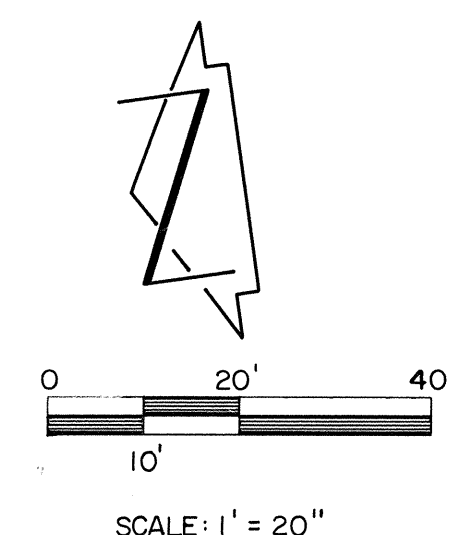
Discharge: $Q = C i A$

where C varies

$i = P_6 (6.84) T_c^{-0.51} = 4.76$ in/hr
 $P_6 = 2.25$ in (DPM Plate 22.2D-1)
 $T_c = 10$ min (minimum)
A = area, acres

Developed Condition

$A_{total} = 23,000$ sf = 0.5 Ac
Paved and roof area = 20,700 sf (0.9)
Landscaped area = 230 sf (0.1)
 $C = 0.88$ (Weighted average per Emergency Rule, 1/14/86)
 $Q_{100} = C i A = 0.88(4.76)(0.5) = 4.2$ cfs

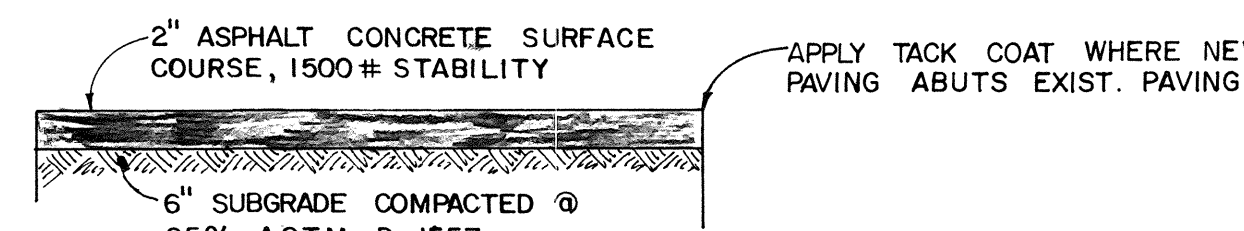
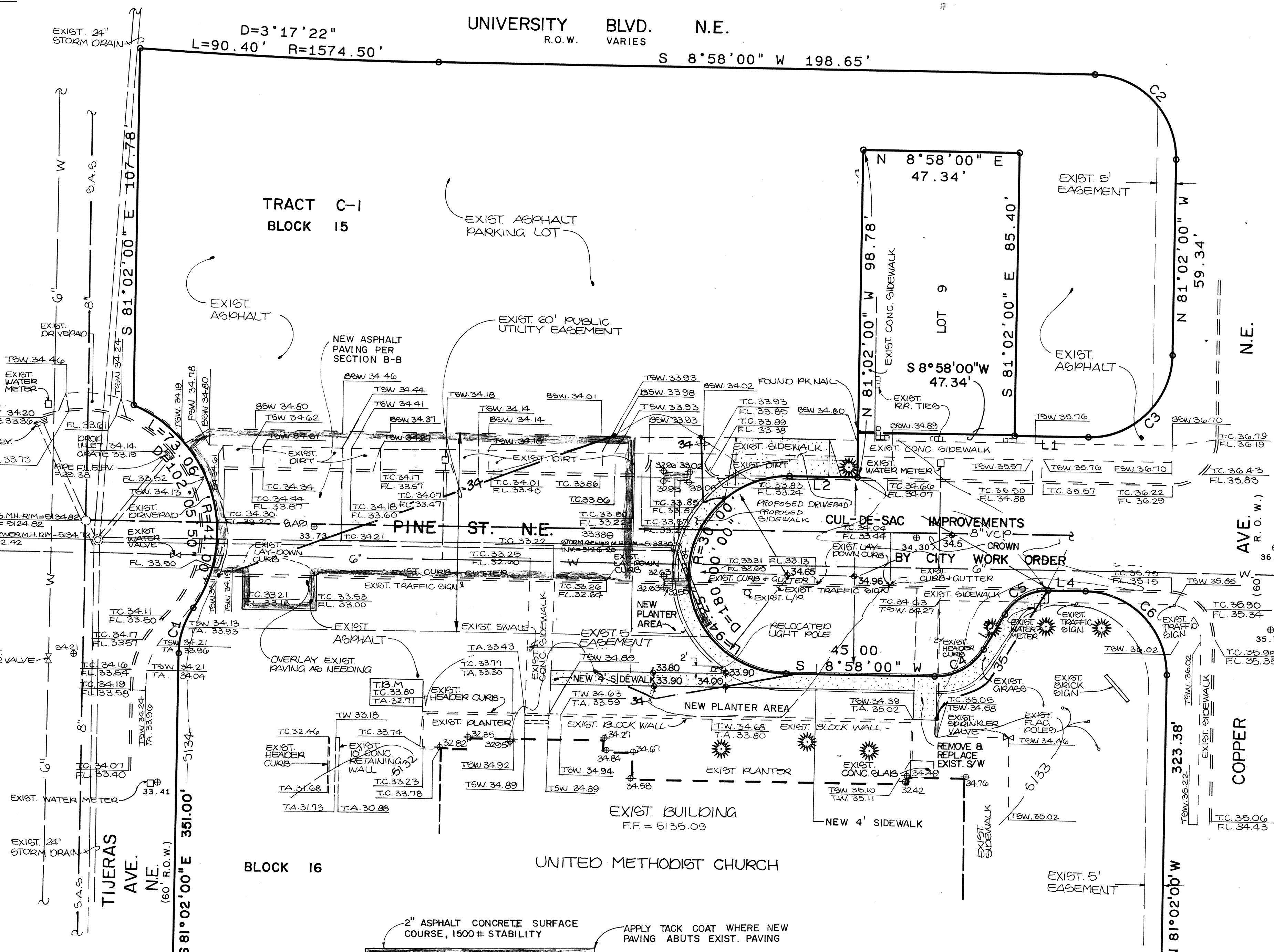


LEGEND

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- PROPOSED SPOT ELEVATION
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SCANNED BY



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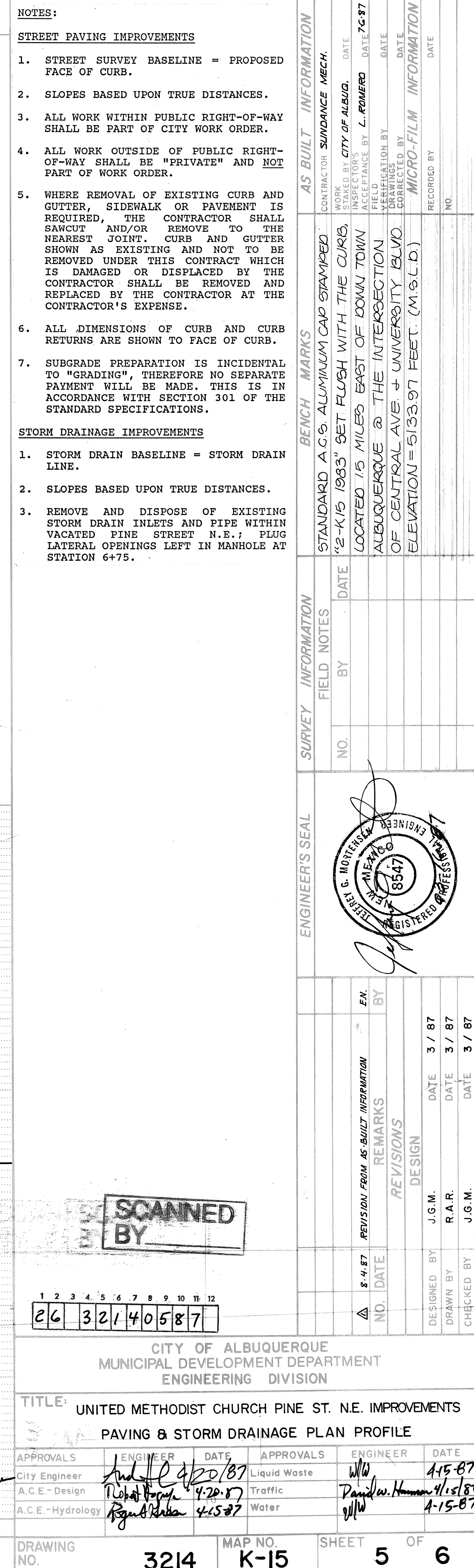


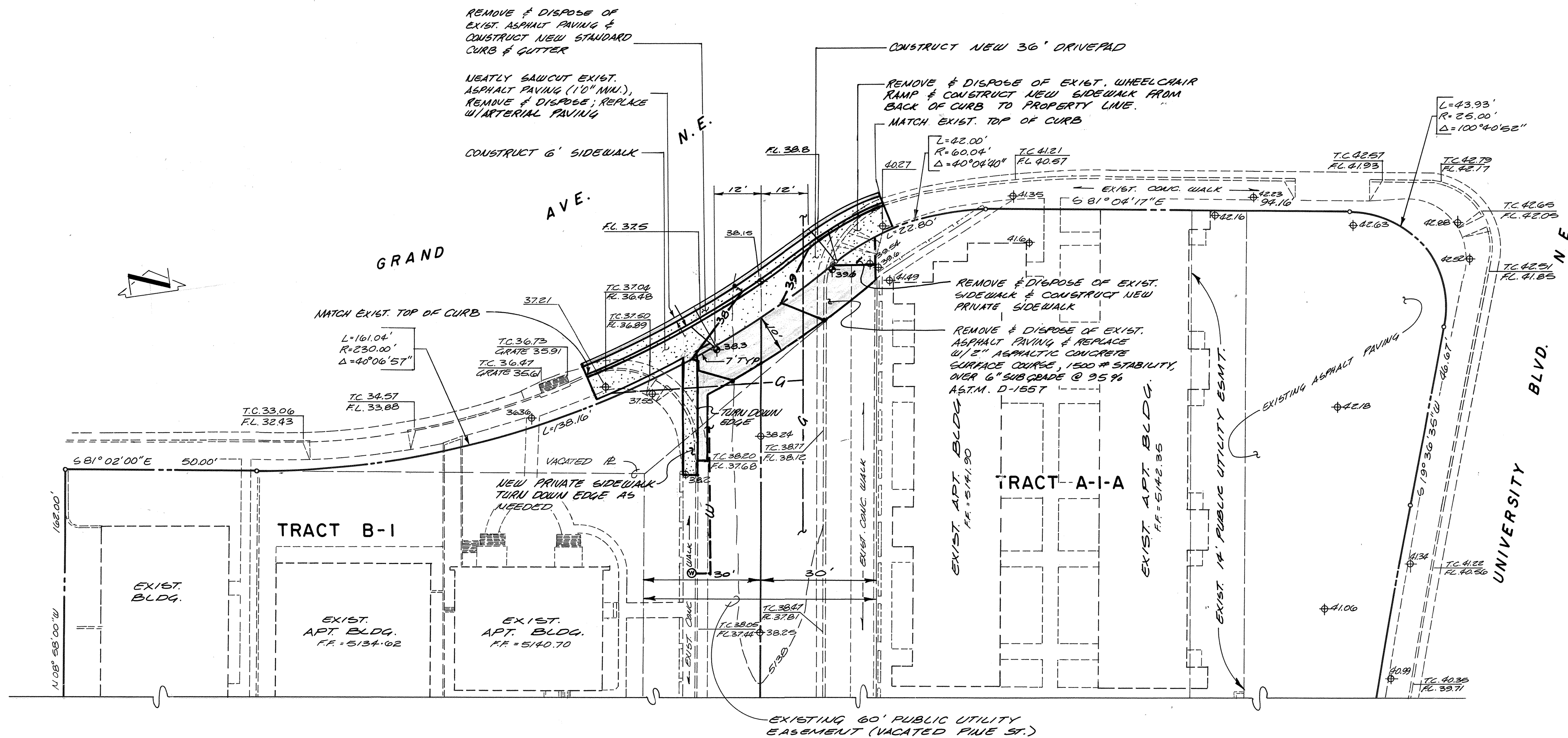
NO.	DATE	BY	REVISIONS

DESIGNED BY: J.G.M.	JOB NO. 40556
DRAWN BY: R.A.R.	DATE 02/87
APPROVED: J.G.M.	

GRADING & DRAINAGE PLAN
UNITED METHODIST CHURCH PINE STREET N.E. IMPROVEMENTS

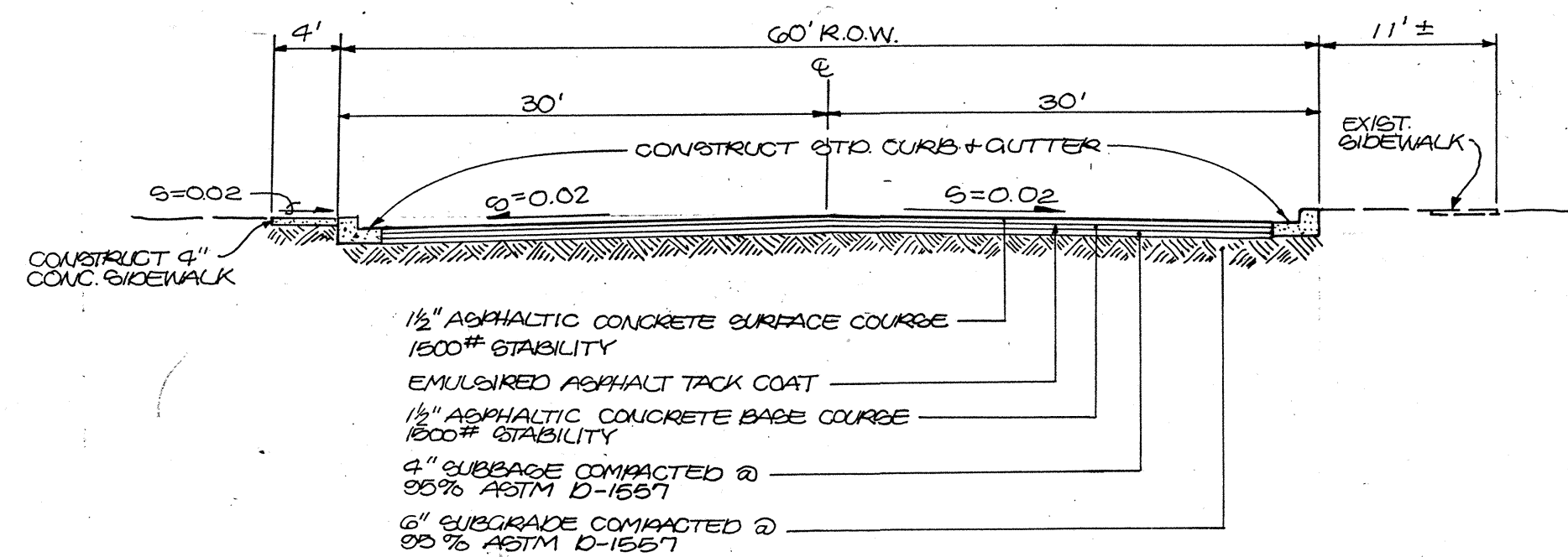
3214
SHEET 4 OF 6





DETAIL
SCALE: 1" = 20'

NOTE: THIS WORK TO BE PERFORMED BY EXCAVATION PERMIT AND SHALL NOT BE PART OF THIS WORK ORDER.



SECTION A-A

NOTE:
ALL SUBGRADE PREPARATION SHALL BE CONSIDERED INCIDENTAL TO "GRADING", "CURB + GUTTER" + "SIDEWALK".



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

26 32 14 06 87

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: UNITED METHODIST CHURCH-PINE ST. MODIFICATIONS SECTIONS & DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4-20-87	Liquid Waste	<i>[Signature]</i>	4-15-87
A.C.E.-Design	<i>[Signature]</i>	4-15-87	Traffic	<i>[Signature]</i>	4-15-87
A.C.E.-Hydrology	<i>[Signature]</i>	4-15-87	Water	<i>[Signature]</i>	4-15-87
DRAWING NO. 3214			SHEET 6 OF 6		

SURVEY INFORMATION		REFERENCES		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	MAP NO.	EST. NO.	W.O. NO.	BY	CONTRACTOR	NO.
						STANDARD 12.5 ALUMINUM CAP BARRIED "2" X 1/8 1993" SET FLUSH WITH THE CURB. LOCATED 1.5 MILES EAST OF DOWN TOWN ALBUQUERQUE @ THE INTERSECTION OF CENTRAL AVENUE & UNIVERSITY BOULEVARD ELEVATION = 5133.97 FEET (M.S.L.D.)	
FIELD NOTES		NO.		DATE		MICRO-FILM INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE	RECORDED BY	DATE