HYDROLOGY K15/D30 N.M. ORTHOPEDIC FACILITY

K15 1030

N.M. Orthopedic Fac.

1 Plan

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. K-15 DATE: 7/6/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: New Mexico Orthopedic Facility

	WHO	REPRESENTING
ATTENDANCE:	Vic Chavez	Chavez-Grieves
2-5-85	~~Jackie McDowell~~	"
Use same recap for area as per Billy Goolsby-City Hydr. List legal description & submit a copy of current plat	Billy Goolsby	City

FINDINGS: ① Approved Drainage Plan per DPM required prior to issuance of Building permit.

② Discharge to be determined by downstream capacity.

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JUL 24 1985
HYDROLOGY SECTION

Please provide a copy of recap w/submittal

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Billy J. Goolsby — SIGNED: Victor J. Chavez

TITLE: CE/Hydrology — TITLE: Proj. Eng.

DATE: 7/6/84 — DATE: 7/6/84

DRAINAGE INFORMATION SHEET

PROJECT TITLE: N.M. ORTHOPAEDIC ASSOC. OFFICE ZONE ATLAS/DRNG.FILE #: K-15-Z

LEGAL DESCRIPTION: EASTERN HALF OF EXISTING BLOCK 25, TERRACE ADD'N, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

CITY ADDRESS:

ENGINEERING FIRM: CHAVEZ-GRIEVES CONSULTING ENGRS. CONTACT: VICTOR J. CHAVEZ, P.E.

ADDRESS: 4520 MONTGOMERY N.E., ALBUQ. 87109 PHONE: (505) 881-7376

OWNER: SOUTHWEST COMMUNITY HEALTH SERVICE CONTACT: JIM HINTON

ADDRESS: 1100 CENTRAL, ALBUQ. N.M. PHONE: (505) 848-3111

ARCHITECT: STEVENS, MALLORY, PEARL & CAMPBELL CONTACT: GLEN FELLOWS

ADDRESS: 115 AMHERST DR. S.E., ALBUQ. N.M. PHONE: (505) 255-8668

SURVEYOR: ALBUQUERQUE SURVEYING CO. CONTACT: FRED SANCHEZ

ADDRESS: 2119 MENAUL N.E., ALBUQ. 87107 PHONE: (505) 884-2036

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES
__ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

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FEB 28 1985
HYDROLOGY SECTION

DRB NO. V-85-9 85-42 2/19/85
EPC NO.
PROJ. NO.

TYPE OF SUBMITTAL:

__ DRAINAGE REPORT
X DRAINAGE PLAN
__ CONCEPTUAL GRADING & DRAINAGE PLAN
__ GRADING PLAN
__ EROSION CONTROL PLAN
__ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

__ SKETCH PLAT APPROVAL
__ PRELIMINARY PLAT APPROVAL
__ SITE DEVELOPMENT PLAN APPROVAL
__ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
__ FOUNDATION PERMIT APPROVAL
__ CERTIFICATE OF OCCUPANCY APPROVAL
__ ROUGH GRADING PERMIT APPROVAL
__ GRADING/PAVING PERMIT APPROVAL
__ OTHER (SPECIFY)

DATE SUBMITTED: 2/28/85

BY: VICTOR J. CHAVEZ, P.E.

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

March 14, 1985

Victor J. Chavez
Chavez-Grieves Consulting Engineers
4520 Montomgery Blvd., NE
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR NM ORTHOPEDIC ASSOCIATION OFFICE
(K-15/D30) RECEIVED FEBRUARY 28, 1985

Dear Mr. Chavez:

The referenced plan dated February 28, 1985, is approved.

Please attach a copy of this approved plan to the construction set prior to Hydrology sign-off.

If you have any questions or comments regarding this project, please call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Presbyterian Medical Plaza ZONE ATLAS/DRNG.FILE #: K 15

LEGAL DESCRIPTION: Blocks 18 and 25, Terrace Addition, Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS:

ENGINEERING FIRM: Chavez-Grieves Engrs. CONTACT: Victor J. Chavez

ADDRESS: 4520 Montgomery, Suite 3 PHONE: (505) 881-7376

OWNER: Southwest Community Health Service CONTACT: Jimi Hinton

ADDRESS: 1100 Central PHONE: (505) 848-3111

ARCHITECT: de la Torre-Rainhart CONTACT: Van Weaver

ADDRESS: 700 Lomas, Suite 200 PHONE: (505) 842-9500

SURVEYOR: Albuquerque Surveying Co CONTACT: Fred Sanchez

ADDRESS: 2119 Menaul PHONE: (505) 884-2036

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED
JUL 24 1985
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

DRAINAGE REPORT

DRAINAGE PLAN

X CONCEPTUAL GRADING & DRAINAGE PLAN

GRADING PLAN

EROSION CONTROL PLAN

ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

SKETCH PLAT APPROVAL

X PRELIMINARY PLAT APPROVAL

X SITE DEVELOPMENT PLAN APPROVAL

FINAL PLAT APPROVAL

BUILDING PERMIT APPROVAL

FOUNDATION PERMIT APPROVAL

CERTIFICATE OF OCCUPANCY APPROVAL

ROUGH GRADING PERMIT APPROVAL

GRADING/PAVING PERMIT APPROVAL

X OTHER Conceptual Drainage Plan Approval (SPECIFY)

DATE SUBMITTED: 7/24/85

BY: Victor J. Chavez

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

August 27, 1985

Mr. Victor Chavez
Chavez-Grieves Engineering
4525 Montgomery, Suite 3
Albuquerque, NM 87109

REF: DRAINAGE PLAN FOR PRESBYTERIAN MEDICAL PLAZA (K15-D30) RECEIVED JULY 24, 1985

Dear Mr. Chavez:

I have reviewed the referenced plan and forward the following comments:

1. Please show how flows will be conveyed to the public streets.

2. Flows across lot lines will not be allowed unless easements or covenants are submitted.

3. Please show the ninety six (96) inch storm drain easement. Please submit asbuilts of the storm drain system through the property.

If you should have any questions, please feel free to call me at 766-7644.

Sincerely,

Carlos A. Montoya, PE
City/County Flood Plain Admin.

CAM:mrk

CHAVEZ GRIEVES / CONSULTING ENGINEERS, INC.

4520 MONTGOMERY BLVD., SUITE 3
ALBUQUERQUE, N.M. 87109
(505) 881-7376

September 10, 1985

Mr. Carlos A. Montoya, P.E.
City/County Flood Plain Admin.
Design Hydrology Section
123 Central N.W.
Albuquerque, N.M. 87102

RECEIVED
SEP 11 1985
HYDROLOGY SECTION

RE: DRAINAGE PLAN FOR PRESBYTERIAN MEDICAL PLAZA (K15-D30)

Dear Carlos:

In response to your letter dated August 27, 1985, I offer the following:

1. Flows will be conveyed to the public streets through drive-pads, sidewalk culverts and drain pipes to the gutter.

2. Flows that will cross lot lines will be granted easements as each lot is developed. (See enclosed approved redivision of the land).

3. The easement for the 96" storm drain is shown on the redivision. (60' public and private utility and drainage easement). A copy of the as-builts for the storm drain system through the property is enclosed.

If you have any questions, please feel free to call.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

Jacki S. McDowell for

Victor J. Chavez, P.E.

JSM:mf

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Presbyterian Medical Plaza ZONE ATLAS/DRNG.FILE #: K15/D30

LEGAL DESCRIPTION: Blocks 18 and 25, Terrace Addition, Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS:

ENGINEERING FIRM: Chavez-Grieves Engrs. CONTACT: Victor J. Chavez

ADDRESS: 4520 Montgomery, Suite 3 PHONE: (505) 881-7376

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ADDRESS: 2119 Menaul PHONE: (505) 884-2036

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

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SEP 11 1985
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

NO

COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

DRAINAGE REPORT

DRAINAGE PLAN

X CONCEPTUAL GRADING & DRAINAGE PLAN

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SKETCH PLAT APPROVAL

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FOUNDATION PERMIT APPROVAL

CERTIFICATE OF OCCUPANCY APPROVAL

ROUGH GRADING PERMIT APPROVAL

GRADING/PAVING PERMIT APPROVAL

X OTHER Conceptual Drainage Plan Approval (SPECIFY)

DATE SUBMITTED: 9/10/85

BY: Victor J. Chavez

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

October 10, 1985

Mr. Victor Chavez
Chavez-Grieves Engineers
4520 Montgomery Boulevard NE, Suite 3
Albuquerque, NM 87107

REF: DRAINAGE PLAN FOR PRESBYTERIAN MEDICAL PLAZA (K15-D30) SUBMITTAL RECEIVED SEPTEMBER 11, 1985

Dear Mr. Chavez:

Based on the information received in the above referenced submittal, the plan dated July 23, 1985 is approved in concept.

For Building Permit purposes or for further platting approvals, please provide a detailed drainage plan for review and approval and for inclusion in any construction sets.

Also, please be advised that prior to Hydrology sign-off the appropriate "Private Drainage Facilities Within City Right-of-Way/Easement" documents will have to be submitted to City Design Section for review and approval and to be attached to the construction sets.

Should you have any questions or comments, please call this office.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, PE
Civil Engineer/Hydrology

BJG:mrk

CONCEPTUAL DRAINAGE REPORT

PRESBYTERIAN MEDICAL PLAZA

THE STUDY SITE IS BOUNDED BY OAK STREET, LEAD AVENUE, CEDAR STREET, AND COAL AVENUE S.E. CONTAINING APPROXIMATELY 4.24 ACRES. THE SITE IS PRESENTLY DEVELOPED AND SLOPES FROM NORTHEAST TO SOUTHWEST WITH AN AVERAGE SLOPE OF 5 PERCENT. FLOWS FROM THE SITE DISCHARGE DIRECTLY TO COAL AVENUE AND LEAD AVENUE AND ARE CONVEYED WEST TO CATCH BASINS LOCATED AT OAK STREET. PROPOSED DEVELOPMENT OF THE SITE INCLUDES FIVE NEW BUILDINGS WITH ASSOCIATED PARKING AREAS AND LANDSCAPING.

THE CAPACITY OF THE STORM RELIEF SYSTEM IN THIS AREA IS 765 CFS. THE EXISTING 100-YEAR PEAK FLOW IS 695 CFS. (ALBUQUERQUE MASTER DRAINAGE STUDY AP3603). THE STUDY SITE IS AT THE BEGINNING OF THE HYDROGRAPH AND THE AREA OF THE SITE IS ALMOST COMPLETELY DEVELOPED, THEREFORE PONDING WILL NOT BE PROVIDED ON THE SITE.

OFF-SITE FLOWS HAVE NO IMPACT ON THE PROPOSED DEVELOPMENT. ADJACENT AREAS NORTH, SOUTH, EAST, AND WEST OF THE SITE ARE PREVENTED FROM CONTRIBUTING FLOWS TO THE SITE BY EXISTING GRADES. ALL ON-SITE FLOWS WILL BE DIVERTED AROUND PROPOSED STRUCTURES AND BE TRANSPORTED AS SURFACE FLOWS THROUGH THE PARKING AREAS TO COAL AVENUE AND LEAD AVENUE.

THE EASTERN QUARTER OF THE SITE HAS AN APPROVED DRAINAGE PLAN, SEE ENCLOSED COPY OF APPROVAL LETTER.

IF CONSTRUCTED AS PROPOSED, THE NEW DEVELOPMENT WILL NOT BE SUSCEPTIBLE TO FLOODING NOR INCREASE THE THREAT OF FLOODING IN DOWNSTREAM AREAS IN THE EVENT OF A 100-YEAR STORM.

DOWNSTREAM REQUIREMENTS (AT OAK STREET AND COAL AVENUE)

WATERSHED AREA = 4.5 ACRES
SOIL SERIES - CU
HYDROLOGIC SOIL GROUP - A
L = 750 FT.
SLOPE = 39/750 = 0.052

$$Tc = 0.0078\,(750)^{0.77}/(0.052)^{0.385} = 3.98 \text{ MIN.}$$

USE Tc = 10 MIN.
I = 2.2 IN./HR. PLATE 22.2 D-2
RAINFALL = 2.3 IN. PLATE 22.2 D-1
i = (2.3)(2.2) = 5.06 IN./HR.
C = 0.60 PLATE 22.2 C-1
Q(100) = (0.60)(5.06)(4.5) = 13.66 CFS
Q(10) = (13.66)(0.657) = 8.98 CFS

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DOWNSTREAM STREET CAPACITY (COAL AVENUE & LEAD AVENUE)
32 FT. STREET
SLOPE = 0.05
Q = 60 (2) = 120 CFS PLATE 22.3 D-1

EXISTING ON-SITE CONDITIONS
A = 4.24 ACRES
PERCENT IMPERVIOUS = 71%
C = 0.57 PLATE 22.2 C-1
Q(100) = (0.57)(5.06)(4.24) = 12.22 CFS
Q(10) = (12.22)(0.657) = 8.03 CFS
CN = 72 PLATE 22.2 C-2
DIRECT RUNOFF = 0.45 IN. PLATE 22.2 C-4
V(100) = (0.45)(4.24)(43560)/12 = 6926 CU. FT.
V(10) = (6926)(0.657) = 4550 CU. FT.

PROPOSED ON-SITE CONDITIONS
PERCENT IMPERVIOUS = 86%
C = 0.71 PLATE 22.2 C-1
Q(100) = (0.71)(5.06)(4.24) = 15.23 CFS
Q(10) = (15.23)(0.657) = 10.01 CFS
CN = 89 PLATE 22.2 C-2
DIRECT RUNOFF = 1.3 IN PLATE 22.2 C-4
V(100) = (1.3)(4.24)(43560)/12 = 20009 CU. FT.
V(10) = (20009)(0.657) = 13146 CU. FT.

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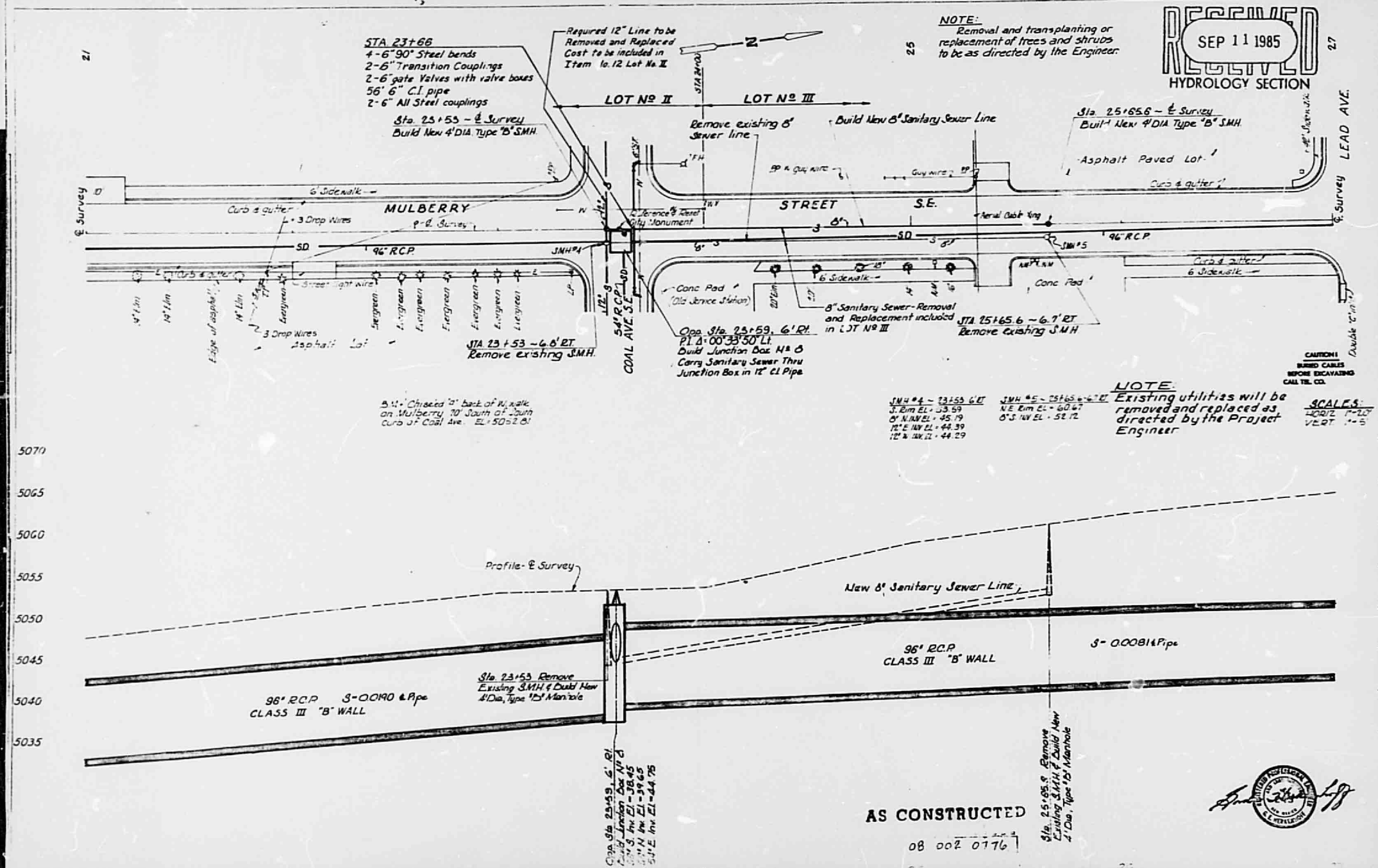
JUL 24 1985
HYDROLOGY SECTION

RECEIVED
SEP 11 1985
HYDROLOGY SECTION



AS CONSTRUCTED

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