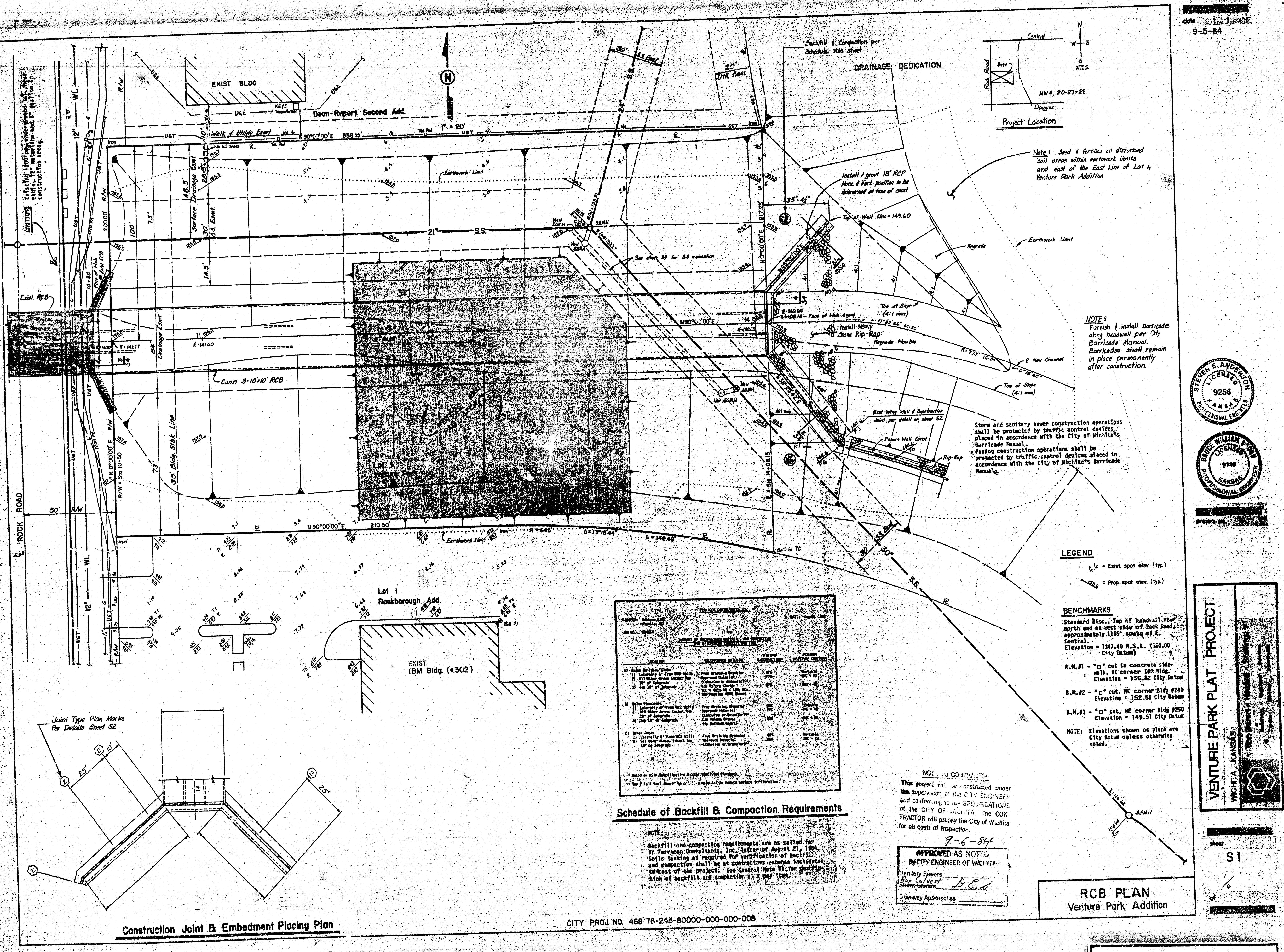

EXIST. BLDG
Dean-Rupert Second Add.
1" = 20'
N
DRAINAGE DEDICATION
Backfill & Compaction per Schedule this Sheet
Walk & Utility Esmt
N 90°00'00" E 358.15'
CAUTION: Existing 1200 Pr. underground tel. trans. cable, for waterline and 8" waterline in construction area.
Exist. RCB
ROCK ROAD
50' R/W
Surface Drainage Esmt.
S.S. Esmt.
Drainage Esmt.
35' Bldg Stbk Line
21" S.S.
Const 3-10'x10' RCB
See sheet S2 for S.S. relocation
New SSMH
Earthwork Limit
Install / grout 18" RCP Horz. & Vert. position to be determined at time of const.
Top of Wall Elev. = 149.60
Face of Hub Guard
Install Heavy Stone Rip-Rap
Regrade Flow line
Toe of Slope (4:1 max)
℄ New Channel
Δ = 6°13'46"
Regrade
End Wing Wall & Construction Joint per detail on sheet S2
Future Wall Const
Rip-Rap
N 90°00'00" E 210.00'
R = 645'
Δ = 13°16'44"
L = 149.49'
30" S.S.
Lot 1 Rockborough Add.
EXIST. IBM Bldg. (#302)
BM #1
SSMH
Project Location
Central
Rock Road
Site
NW4, 20-27-2E
Douglas
N.T.S.
Note: Seed & fertilize all disturbed soil areas within earthwork limits and east of the East Line of Lot 1, Venture Park Addition
NOTE: Furnish & install barricades along headwall per City Barricade Manual. Barricades shall remain in place permanently after construction.
Joint Type Plan Marks Per Details Sheet S2
25'
10'
14'
Construction Joint & Embedment Placing Plan

date 9-5-84

Storm and sanitary sewer construction operations shall be protected by traffic control devices placed in accordance with the City of Wichita's Barricade Manual.

Paving construction operations shall be protected by traffic control devices placed in accordance with the City of Wichita's Barricade Manual.

LEGEND

4.6 = Exist. spot elev. (typ.)

153.6 = Prop. spot elev. (typ.)

BENCHMARKS

Standard Disc., Top of handrail at north end on west side of Rock Road, approximately 1165' south of E. Central.
Elevation = 1347.40 M.S.L. (160.00 City Datum)

B.M.#1 - "□" cut in concrete sidewalk, NE corner IBM Bldg.
Elevation = 156.82 City Datum

B.M.#2 - "□" cut, NE corner Bldg #260
Elevation = 152.56 City Datum

B.M.#3 - "□" cut, NE corner Bldg #250
Elevation = 149.51 City Datum

NOTE: Elevations shown on plans are City Datum unless otherwise noted.

TERRACON CONSULTANTS, INC.

PROJECT: [illegible]
Wichita, KS

DATE: August 1984

JOB NO.: [illegible]

SUMMARY OF RECOMMENDED MATERIALS AND COMPACTION FOR [illegible]

LOCATION	RECOMMENDED MATERIAL	MINIMUM % COMPACTION*	[illegible] MOISTURE CONTENT
A) Below Building Slabs			
1) Laterally 6' From RCB Walls	Free Draining Granular	97%	Workable
2) All Other Areas Except Top 18" of Subgrade	Approved Material (Cohesive or Granular)**	97%	[illegible]
3) Top 18" of Subgrade	Low Volume Change (LL ≤ 40%; PI ≤ 18%; Min. [illegible] Passing #200 Sieve)	[illegible]	[illegible]
B) Below Pavements			
1) Laterally 6' From RCB Walls	Free Draining Granular	97%	Workable
2) All Other Areas Except Top 18" of Subgrade	Approved Material (Cohesive or Granular)**	97%	[illegible]
3) Top 18" of Subgrade	Low Volume Change (As Defined Above)	[illegible]	[illegible]
C) Other Areas			
1) Laterally 6' From RCB Walls	Free Draining Granular	95%	Workable
2) All Other Areas Except Top 18" of Subgrade	Approved Material (Cohesive or Granular)**	[illegible]	[illegible]

* Based on ASTM Specification D-1557 (Modified Proctor).

** Top 2 to 3 feet should be [illegible] material to reduce surface infiltration.

Schedule of Backfill & Compaction Requirements

NOTE:

Backfill and compaction requirements are as called for in Terracon Consultants, Inc. letter of August 21, 1984. Soils testing as required for verification of backfill and compaction shall be at contractors expense incidental to cost of the project. See General Note P1 for description of backfill and compaction [illegible] pay item.

NOTE TO CONTRACTOR

This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will prepay the City of Wichita for all costs of inspection.

9-6-84

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers
Box Culvert ~~Storm Sewers~~ D.E.
Driveway Approaches

CITY PROJ. NO. 468-76-245-80000-000-000-008

RCB PLAN
Venture Park Addition

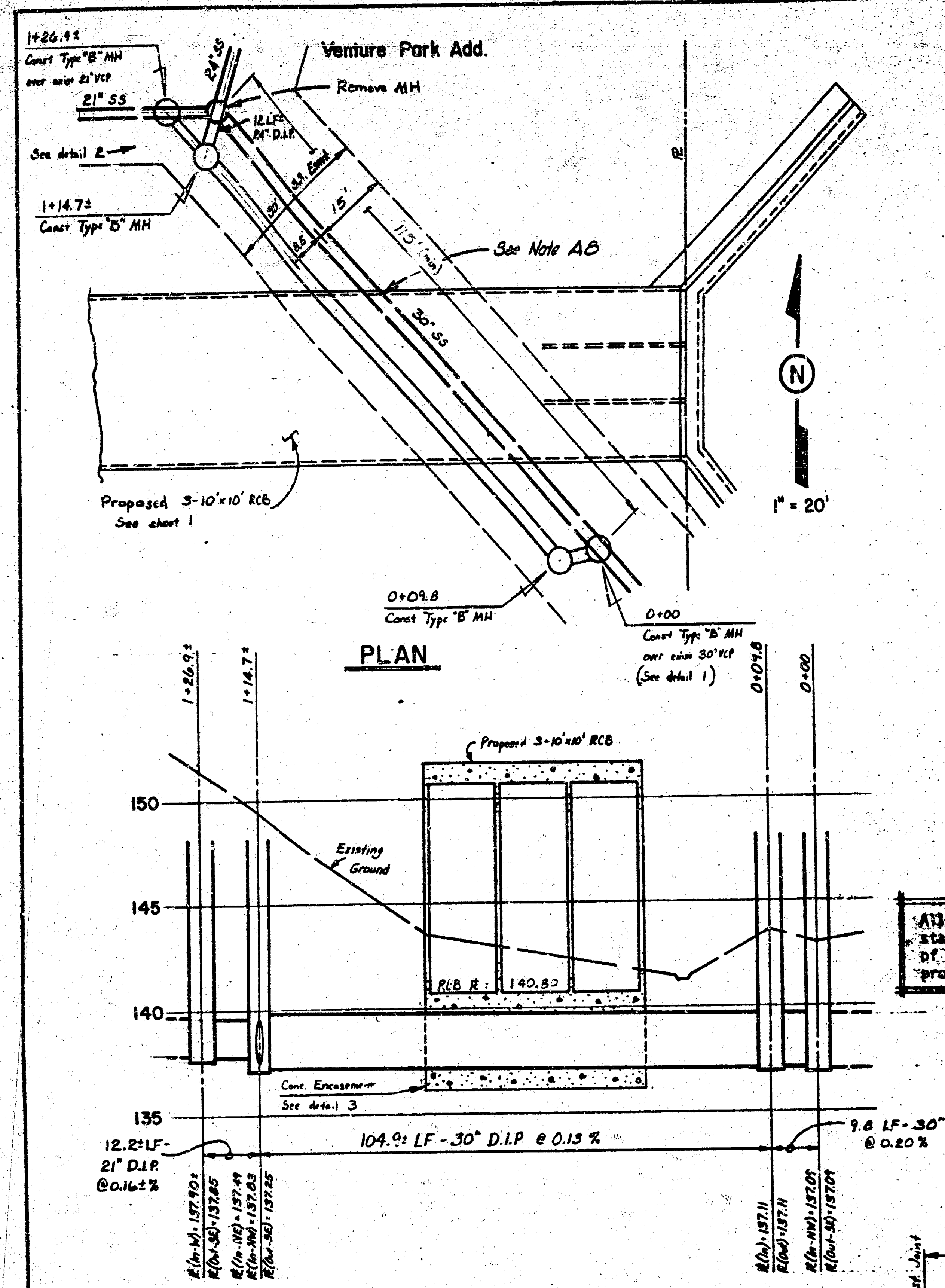
STEVEN E. ANDERSON
LICENSED
9256

BRUCE WILLIAM [illegible]
LICENSED

VENTURE PARK PLAT PROJECT
WICHITA, KANSAS

sheet
S1
1/6
of

FILMED FROM THE BEST

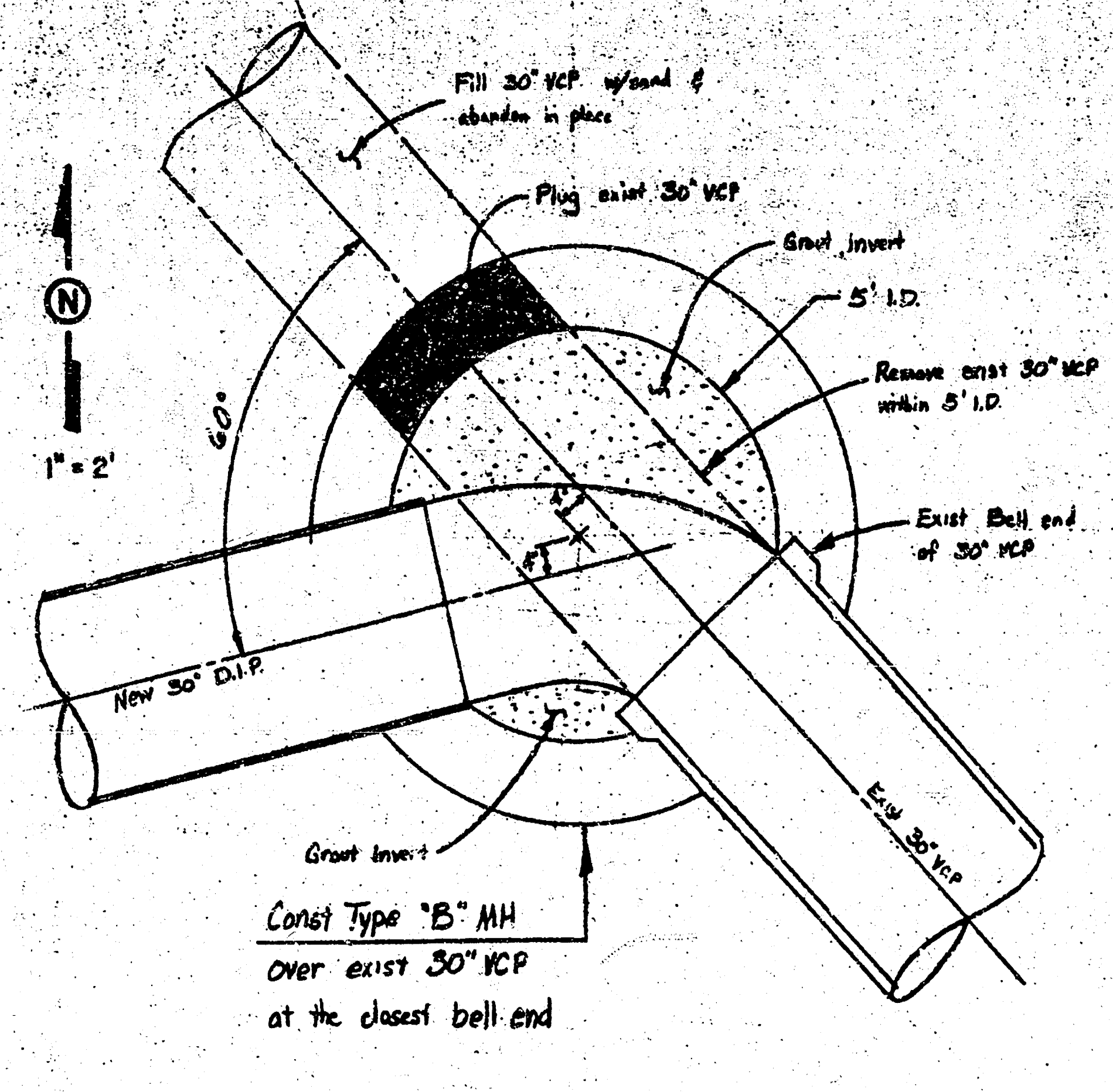

1+26.9±
Const Type "B" MH over exist 21" VCP
21" SS
See detail 2
1+14.7±
Const Type "B" MH
Venture Park Add.
Remove MH
12 LF 24" D.I.P.
24" SS
15'
112'±
See Note A8
30" SS
1" = 20'
Proposed 3-10'x10' RCB See sheet 1
0+09.8 Const Type "B" MH
0+00 Const Type "B" MH over exist 30" VCP (See detail 1)
Proposed 3-10'x10' RCB
150
145
140
135
Existing Ground
Conc Encasement See detail 3
12.2±LF-21" D.I.P. @0.16%
104.9± LF - 30" D.I.P @ 0.15%
9.8 LF-30" D.I.P. @ 0.20%

PLAN

PROFILE

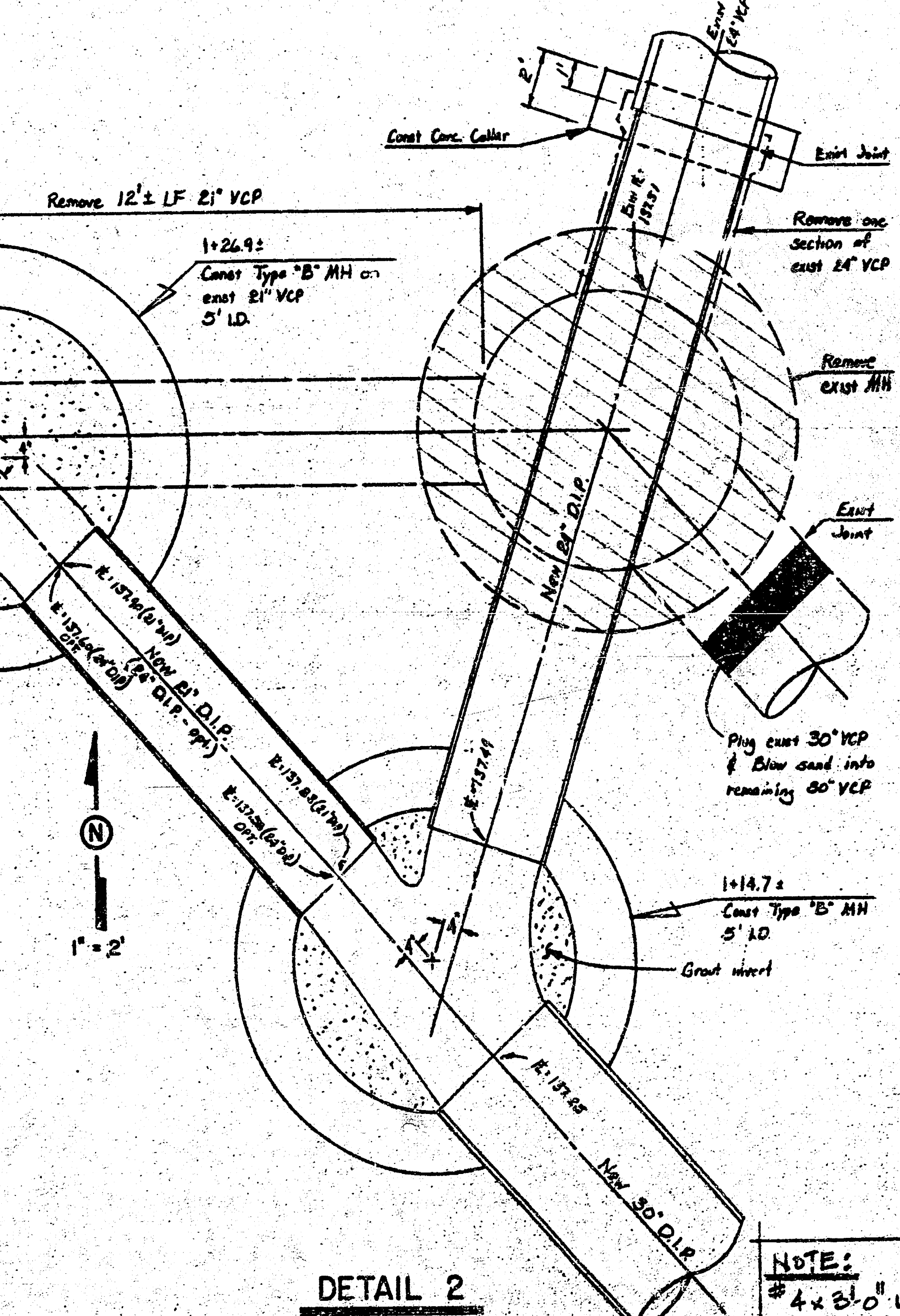
SANITARY SEWER RECONSTRUCTION

All manholes constructed shall be Type B manholes per City of Wichita standard design of "Sewer Appurtenances Details." Inside diameters of Type B manholes shall be 5'0". Manhole top elevations shall be provided by the Engineer at the time of construction.

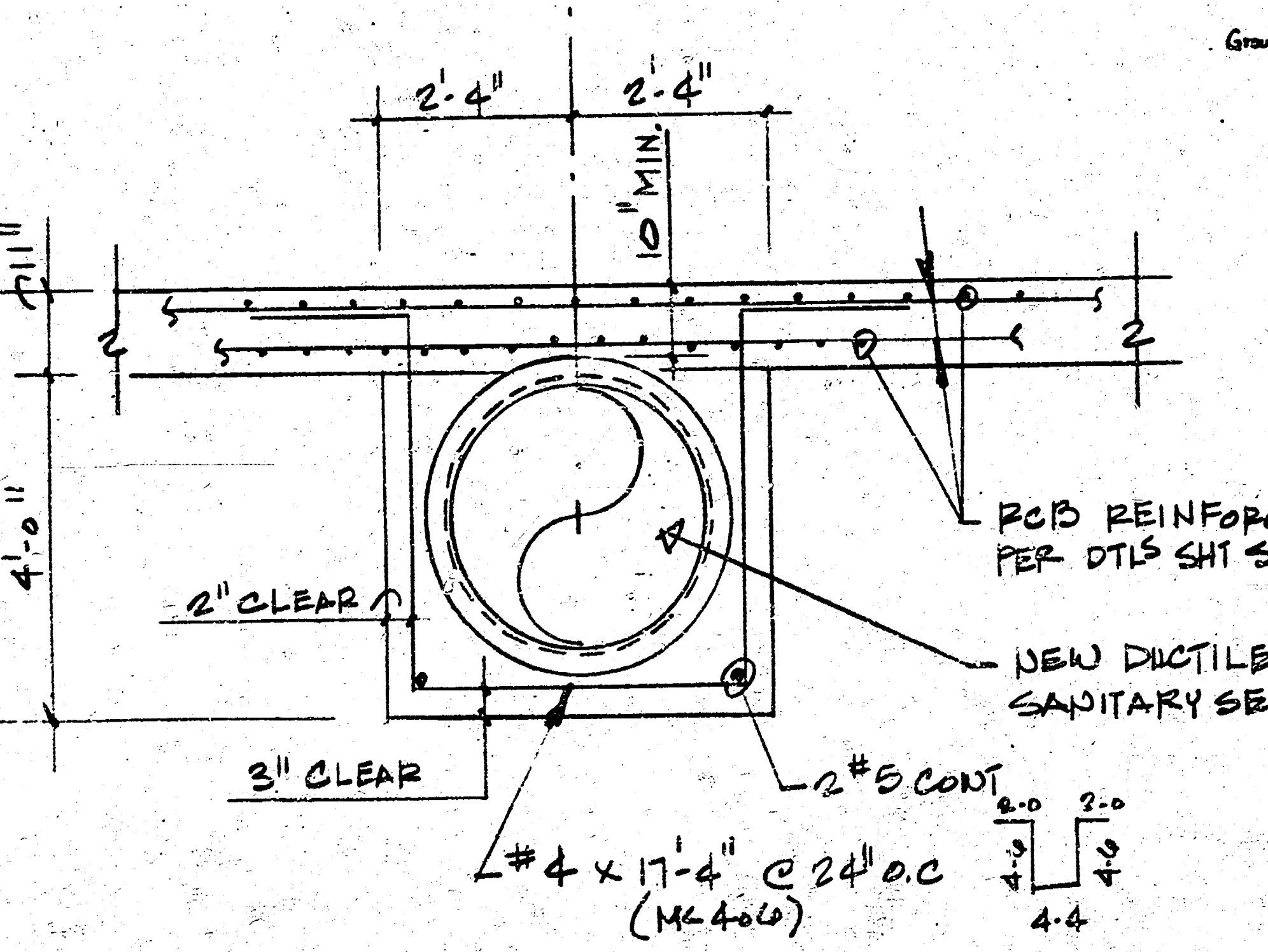

Fill 30" VCP w/sand & abandon in place
Plug exist 30" VCP
Grout invert
5' I.D.
Remove exist 30" VCP within 5' I.D.
Exist Bell end of 30" VCP
1" = 2'
60°
New 30" D.I.P.
Exist 30" VCP
Grout Invert
Const Type "B" MH over exist 30" VCP at the closest bell end

Manhole Detail at Sta 0+00

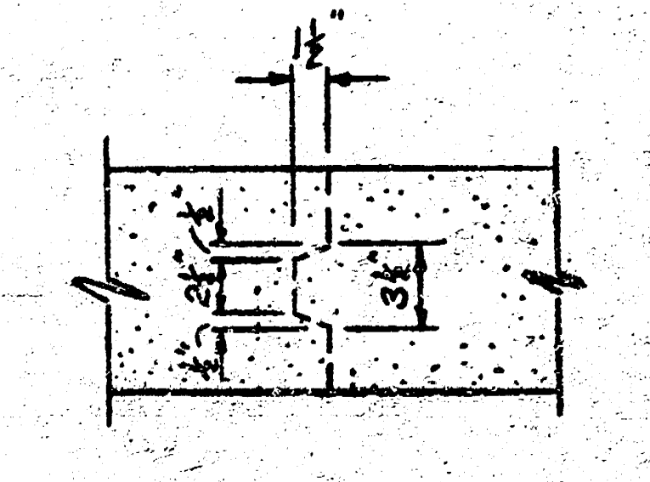
DETAIL 1



DETAIL 2


2'-4"
2'-4"
10" MIN.
4'-0"
RCB REINFORCING PER DTLS SHT S1
2" CLEAR
NEW DUCTILE IRON 30" SANITARY SEWER LINE
2 #5 CONT
3" CLEAR
#4 x 17'-4" @ 24" o.c (MK 406)
2-0 2-0
4-4

DETAIL 3



① Keyed Wall Construction Joint

② Keyed Weakened Plane Wall Joint

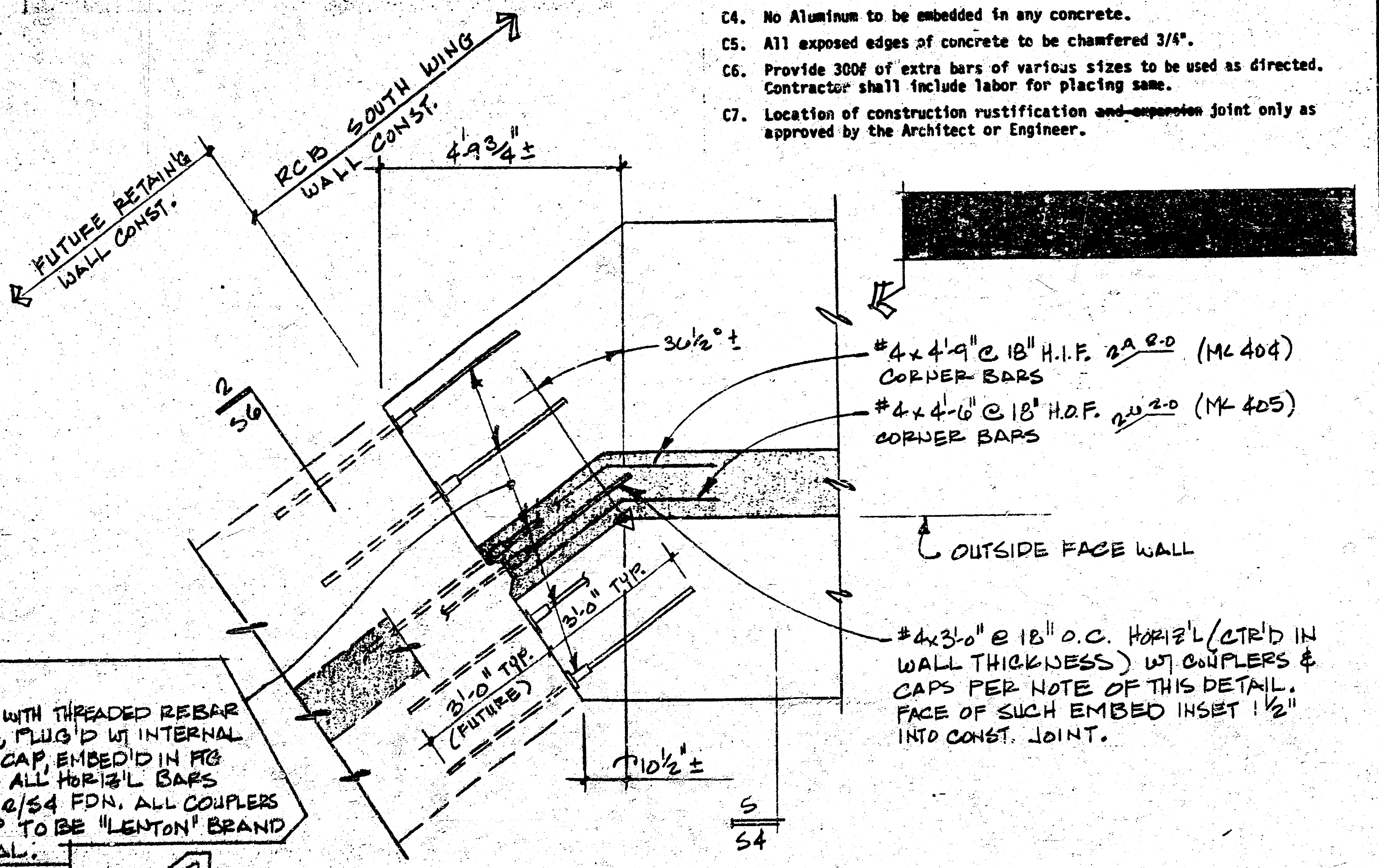
CONSTRUCTION JOINT

NOTES & PLAN MARK Ⓜ :

① #4 x 4'-0" centered on joint at count and spacing to match that of horizontal reinforcing as shown on details & sections.

② #4 x 4'-0" centered on joint at 18" O.C. parallel to horizontal reinforcing and centered in wall thickness. Weakened plane joints at 25'-0" O.C.; RCB wing wall(s) & retaining walls only.

③ 1-1/4" x 1'6" smooth dowels with dowel tubes at 18" O.C. parallel to horizontal reinforcing and centered in wall thickness. Approximately three-fifths of the length of each dowel bar at the free end shall be coated with a hard grease prior to installation. Expansion joints at 100'-0" O.C. in retaining walls only.


RCB SOUTH WING WALL CONST.
FUTURE RETAIN'G WALL CONST.
4'-9¾"±
30½"±
#4 x 4'-9" @ 18" H.I.F. 2-0 2-0 (MK 404) CORNER BARS
#4 x 4'-6" @ 18" H.O.F. 2-0 2-0 (MK 405) CORNER BARS
2/S4
OUTSIDE FACE WALL
3'-0" TYP.
3'-0" TYP. (FUTURE)
#4 x 3'-0" @ 18" O.C. HORIZ'L (CTR'D IN WALL THICKNESS) W/ COUPLERS & CAPS PER NOTE OF THIS DETAIL. FACE OF SUCH EMBED INSET ½" INTO CONST. JOINT.
10½"±
5/S4

NOTE:
#4 x 3'-0" WITH THREADED REBAR COUPLER, PLUG'D W/ INTERNAL COUPLER CAP, EMBED'D IN FTG TO MATCH ALL HORIZ'L BARS OF SECT 2/S4 FDN. ALL COUPLERS AND CAP TO BE "LENTON" BRAND OR EQUAL.

4 PLAN VIEW @ FUTURE RETAIN'G WALL INTERFACE TO RCB WING WALL

½" = 1'-0"

GENERAL NOTES

Pay Items

P1. Excavation and backfill quantities shown on plans & cross section sheets are provided for Contractors information only. The excavation backfill & compaction of the RCB & wing walls is to be paid for under a lump sum agreement. Over or under runs of such quantities will not constitute justification for additional compensation unless mutually agreed to by the owner and Contractor.

P2. Pipe lengths shown required for the sanitary sewer relocation may vary from actual lengths necessitated by field conditions which may present themselves during the course of construction. The sanitary sewer relocation is to be paid for under a lump sum agreement. Over or under runs of such quantities will not constitute justification for additional compensation unless mutually agreed to by the owner and Contractor.

P3. Construction of the tripple 10 x 10 RCB is to be paid for under a lump sum agreement. Contractor is admonished to make such site visitation(s) as necessary to familiarize himself with the job conditions prior to bid. Change orders for unexpected field conditions will be issued only where mutually agreed upon by owner and Contractor.

Design Live Loads

01.	RCB Vertical Loading (ASSHTO governs)	~~HS~~-20 ASSHTO 83 125 PSF ACI-77

02. RCB lateral loading equivalent fluid weight of soil = 35 PCF per Terracon Consultants, Inc. soils report of July 23, 1984 with surcharge from H-20 ASSHTO loading superimposed.

Soils

01. All wing wall footings and RCB bottom slabs shall bear on undisturbed earth, or engineered fill, or existing fill materials & shall have a minimum allowable bearing capacity as noted below and verified by a licensed soils engineer.

02. Reinforced concrete box culvert:

Total load (max) 1400 PSF

Note: Minimum safe soil bearing capacity shall be 2500 PSF as verified by a licensed soils engineer.

03. Culvert wingwalls:

Total load (max-toe) 1975 PSF

Note: Minimum safe soil bearing capacity shall be 2500 PSF as verified by a licensed soils engineer.

04. Placement & compaction of engineered fills beneath wingwall footings or RCB bottom slab and backfill adjacent to and over such structures shall be per recommendations as noted in Terracon Consultants, Inc. soil report of July 23, 1983. (Re. pages 6, 7, 11)

UTILITIES

1. Utilities shown are from the best information available from the various utility companies. Accurate field position of utilities at critical locations were determined by representatives from the utility companies. Some utility lines may not be in the exact location shown. Other utility lines may be encountered during construction which are not shown due to insufficient information, recent construction or other reasons. The Contractor shall notify the Engineer and the pertinent utility companyof any such problem.
2. The Contractor shall notify all utility companies a minimum of one week in advance of construction. The Contractor shall be responsible for having all utilities located on the project prior to construction. The Contractor shall be responsible for any costs associated with necessary relocation of utilities. The Contractor shall be responsible for any damage to utilities caused by construction, for protection of utilities during construction and for coordination of the above mentioned items.
3. The Contractor shall avoid uncovering existing water lines unless absolutely necessary. Uncovering shall be done only in the presence of a Water Department Engineer.
4. The Contractor shall coordinate the tie back, protection of and/or relocation of power poles, light poles and appurtenances with KG&E.
5. The Contractor shall be responsible for repairing, replacing, relocating, and/or reconnecting utilities for which the various utility companies are not responsible. Such work shall include, but not limited to, utility service lines and sanitary sewer drains. The Contractor shall perform such utility work in accordance with applicable codes; cost shall be incidental to the project.
6. At the direction of the Field Engineer, the Contractor shall verify horizontal and vertical positions of all existing utility lines and appurtenances to be encountered during construction.

Construction

A1. All construction on this project shall conform to the City of Wichita Standard Specifications for Sanitary and Storm Sewers, unless noted otherwise.

A2. Contractor shall be responsible for compliance with all applicable codes and laws.

A3. Contractor shall be responsible for maintaining safe working conditions and shall comply with all applicable safety codes and laws.

A4. Contractor shall be responsible for obtaining all permits, staking, inspection or other fees required by the plans, specifications or by the City of Wichita.

A5. All new sanitary sewer pipe installed on this project shall be Class 52, polyethylene lined Ductile Iron Pipe, per the Standard Specification.

A6. All manholes constructed shall be Type B manholes per City of Wichita standard design of "Sewer Appurtenances Details." Inside diameters of Type B manholes shall be 5'0". Manhole top elevations shall be provided by the Engineer at the time of construction.

A7. Precise horizontal location of manholes shall be determined in the field at the time of construction to properly locate the manhole with respect to existing sanitary sewer pipe joints. This applies only to new manholes constructed over existing sanitary sewers.

A8. At the Contractors option, the existing 30" VCP to be blown full of sand, plugged and abandoned in place, may be removed.

A9. Concrete encasement of the existing 30" VCP may be encountered. All concrete encased 30" VCP located under the proposed RCB shall be removed. Additional 30" VCP to be abandoned beyond the limits of the RCB may be blown full of sand and plugged or removed at the Contractors' option. There shall be no pay adjustment for the above described work.

A10. Any additional pipe, materials or construction work necessary to connect existing 30" VCP encased in concrete to the proposed manhole at 0+00 shall be at no additional cost to the owner.

A11. At the Contractors' option, 24" D.I.P. may be used in place of the new 21" D.I.P. shown.

Wastewater Flow

B1. Flow of wastewater shall be maintained at all times during construction, except as described hereafter. The Contractor may use temporary flumes, pipes, tubes, pumps or other temporary conveyance means as approved by the Engineer.

B2. No wastewater shall be allowed to enter Gypsum Creek.

B3. Provision shall be made prior to beginning construction to immediately or continuously clean up leaks or seepage of wastewater into excavated areas, to prevent accumulation of wastewater in the excavated areas.

B4. Existing sanitary sewers upstream of construction may be temporarily plugged, for brief periods of time to facilitate construction. Temporary plugging will be allowed only during periods of low flow. Such temporary plugging shall be performed only with the approval of the City Engineer, after submission of an acceptable detailed time schedule covering the period when temporary plugs are in place. The City Engineer's approval of temporary plugging shall in no way relieve the Contractor of liability or responsibility for damage to public or private property or facilities caused directly or indirectly by such temporary plugging.

B5. High early strength grout may be used to construct inverts in sanitary sewer manholes.

B6. It is the intent of the plans to provide the Contractor with maximum flexibility in constructing this project, with regard to wastewater flow.

Concrete

C1. All concrete to have a minimum compressive strength of 3500 P.S.I. @ 28 days.

C2. All reinforcing to meet ASTMA615, Grade 60; welded wire fabric, A 185 with minimum lap of 6".

C3. Reinforcing to be fabricated and placed per CRSI Specifications; lap continuous horizontal bars 40 diameter (24" minimum) at splices.

C4. No Aluminum to be embedded in any concrete.

C5. All exposed edges of concrete to be chamfered 3/4".

C6. Provide 300# of extra bars of various sizes to be used as directed. Contractor shall include labor for placing same.

C7. Location of construction rustification ~~and expansion~~ joint only as approved by the Architect or Engineer.

date
9-5-84

STEVEN E. ANDERSON 9256

[illegible] WILLIAM BAUGH 9316

project no.

VENTURE PARK PLAT PROJECT
WICHITA, KANSAS

Van Doren • Hazard • Stallings

sheet
S2

2/6

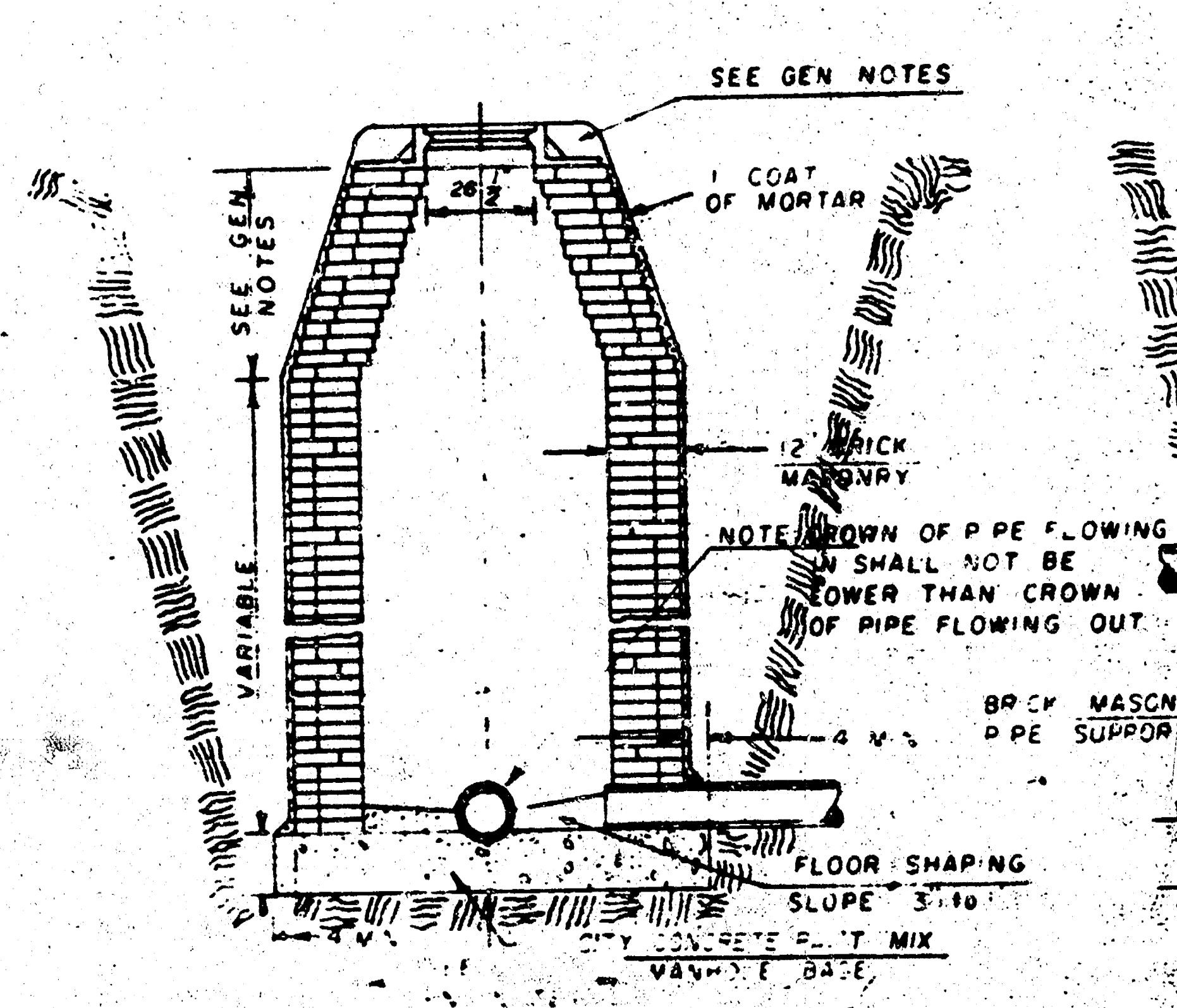
REVISED MAY 1981

SEWER APPURTENANCES DETAILS

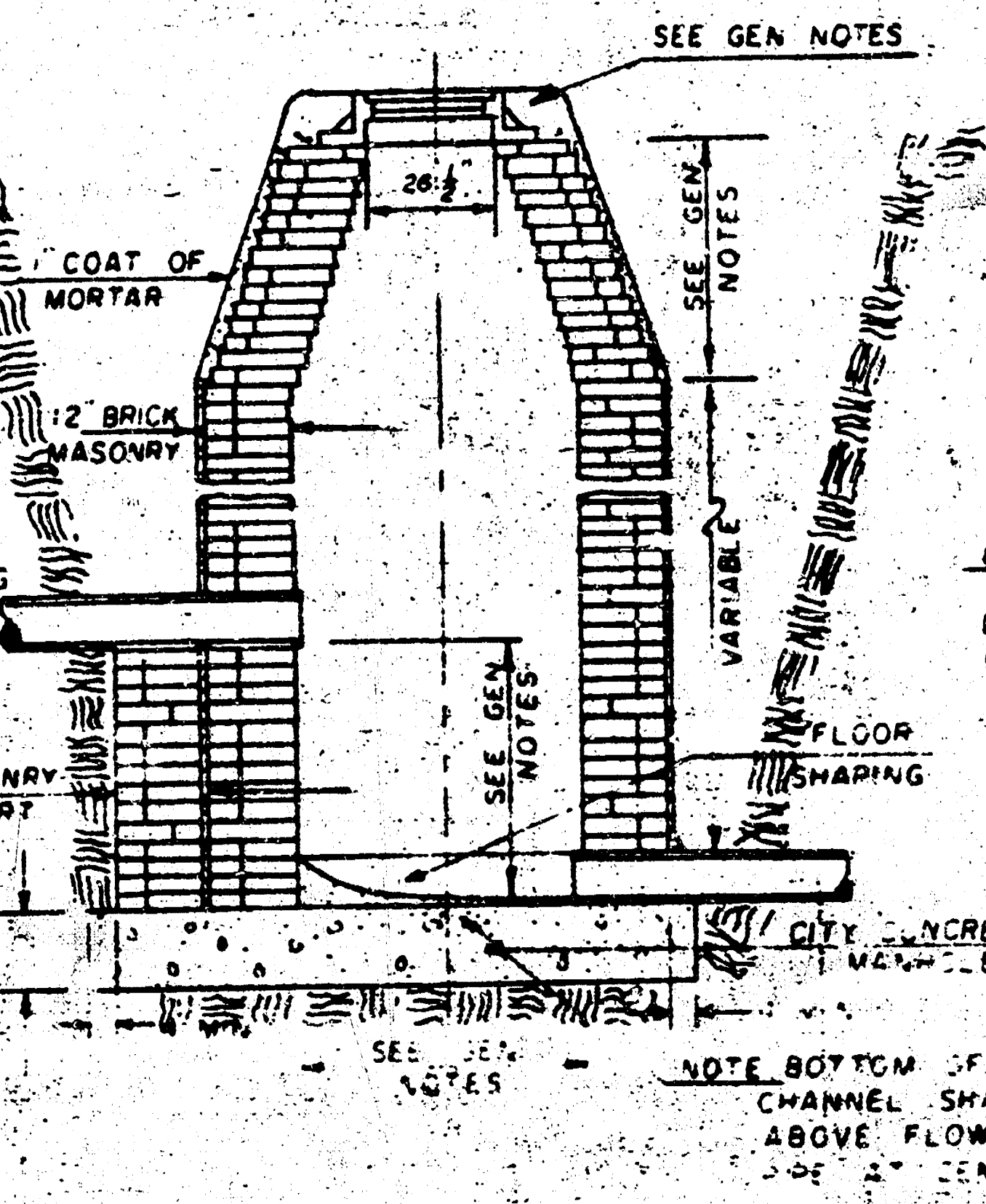
ADOPTED AS STANDARD DESIGN
BY

City of Wichita, Kansas

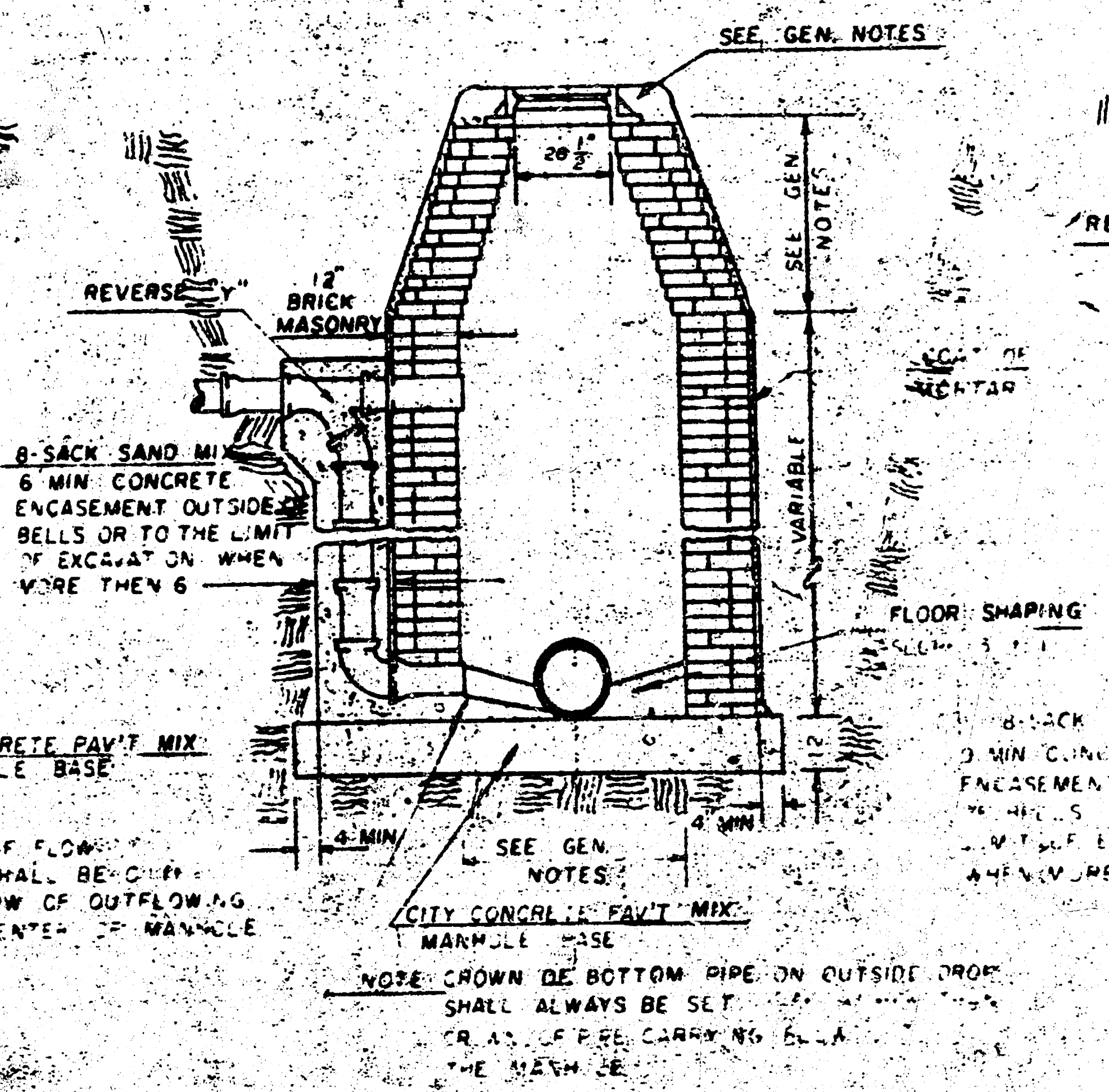
TYPE "B" MANHOLE



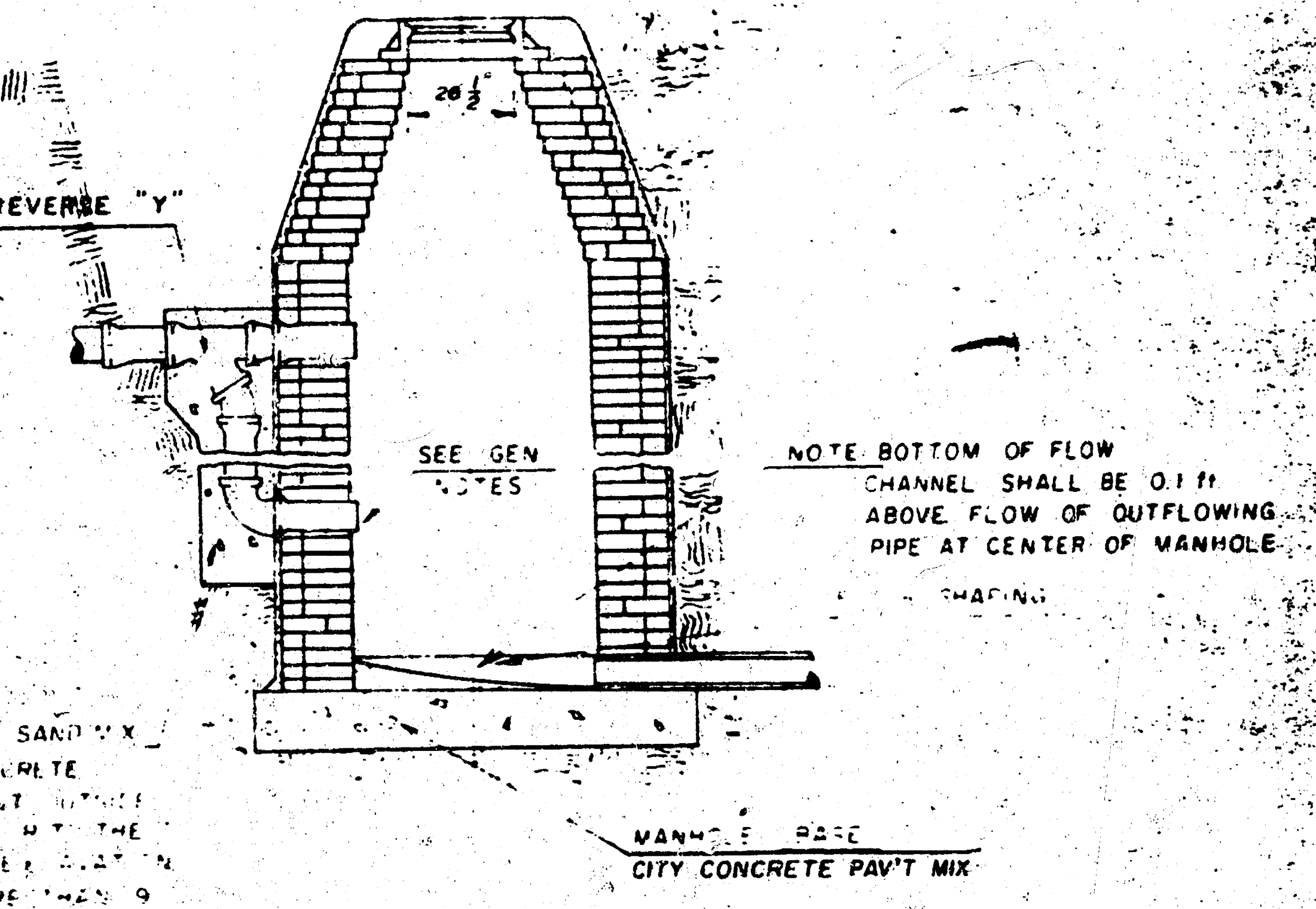
TYPE "B" INSIDE DROP MANHOLE



TYPE "B" OUTSIDE DROP MANHOLE


SEE GEN. NOTES
26 1/2"
REVERSE "Y"
12" BRICK MASONRY
8-SACK SAND MIX 6 MIN CONCRETE ENCASEMENT OUTSIDE BELLS OR TO THE LIMIT OF EXCAVATION WHEN MORE THEN 6
SEE GEN NOTES
VARIABLE
FLOOR SHAPING
12"
4" MIN
4" MIN
SEE GEN. NOTES
CITY CONCRETE PAV'T MIX
MANHOLE BASE
NOTE CROWN OF BOTTOM PIPE ON OUTSIDE DROP SHALL ALWAYS BE SET

DETAIL OF OUTSIDE DROP CONSTRUCTED ON EXISTING MANHOLE


26 1/2"
REVERSE "Y"
1 COAT OF MORTAR
SEE GEN NOTES
NOTE BOTTOM OF FLOW CHANNEL SHALL BE 0.1 ft ABOVE FLOW OF OUTFLOWING PIPE AT CENTER OF MANHOLE
FLOOR SHAPING
8-SACK SAND MIX 6 MIN CONCRETE ENCASEMENT
MANHOLE BASE
CITY CONCRETE PAV'T MIX

GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "B" MANHOLES CAN BE USED ON SEWERS HAVING DEPTHS GREATER THAN 16' OR WHEN THE MANHOLE IS LOCATED IN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. THE HEIGHT OF THE CORBELS ON 4' DIAMETER MANHOLES SHALL BE 4'. MANHOLES HAVING A DIAMETER OF 5' SHALL HAVE CORBELS 6' IN HEIGHT. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 5" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

3. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THE VERTICAL DROP FROM THE LOWER PIPE ON SUCH OUTSIDE DROP CONNECTIONS SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED LARGER THAN 12", EXCEPT THE CROWN OF THE LOWER PIPE SHALL NEVER BE SET BELOW THE CROWN OF ANY LARGER OUTFLOWING PIPE. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.

4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF ½ INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

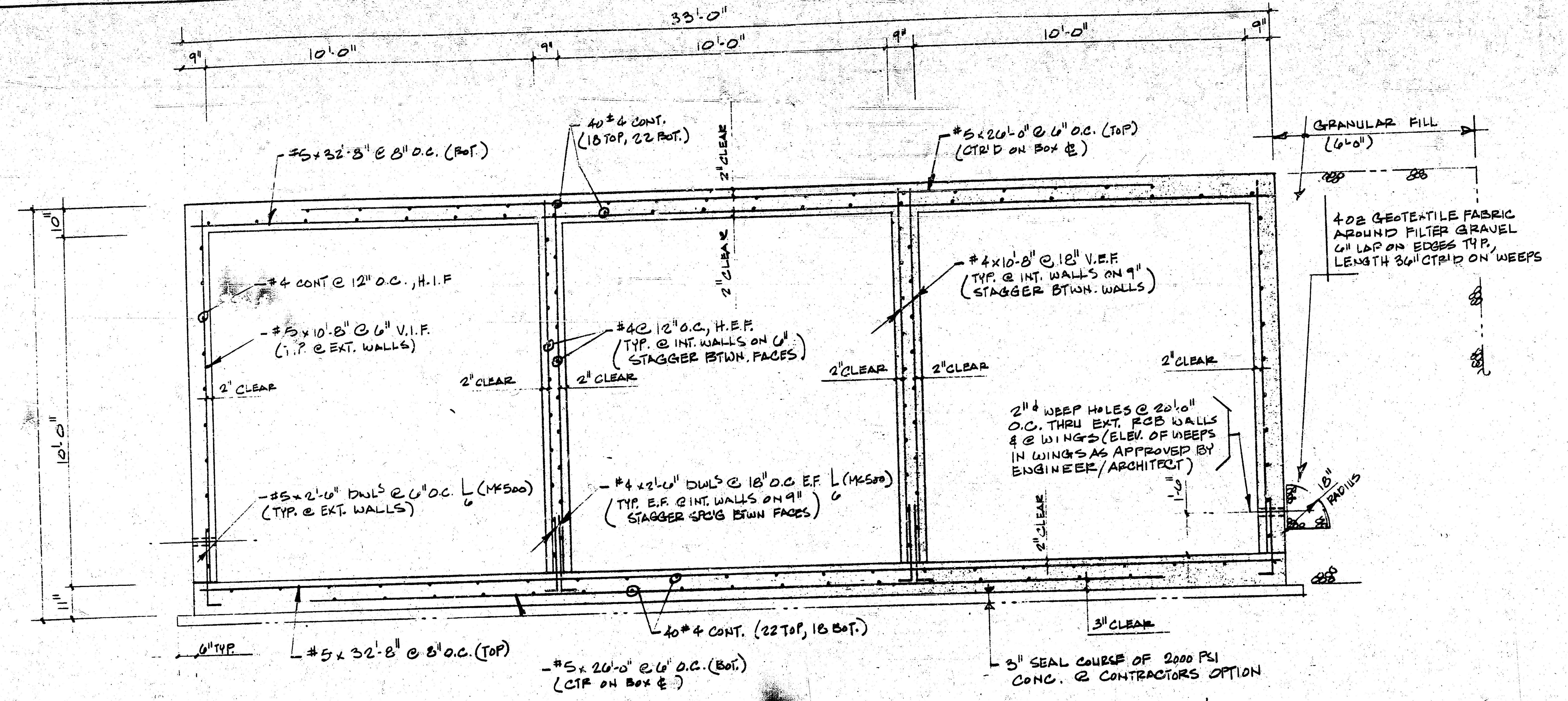
5. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

6. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

7. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 4' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

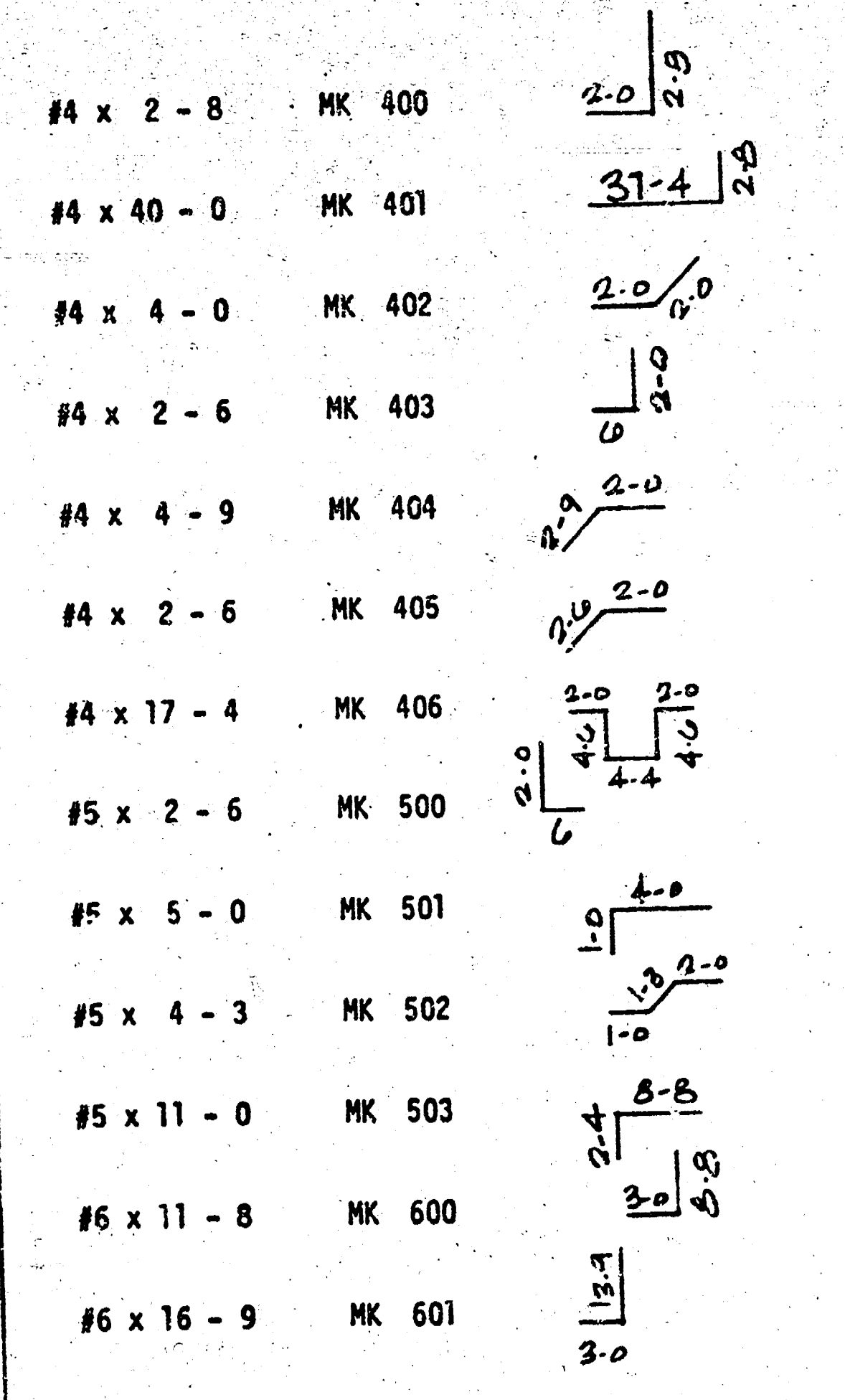
8. STANDARD MANHOLES TYPE "B" AND STANDARD INSIDE DROP MANHOLES TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "B" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

date
9-5-84


33'-0"
9"
10'-0"
9"
10'-0"
9"
10'-0"
9"
#5 x 32'-8" @ 8" O.C. (BOT.)
40 #4 CONT. (18 TOP, 22 BOT.)
2" CLEAR
#5 x 26'-0" @ 6" O.C. (TOP) (CTR'D ON BOX ℄)
GRANULAR FILL (6'-0")
1'-0"
#4 CONT @ 12" O.C., H.I.F
#5 x 10'-8" @ 6" V.I.F. (TYP. @ EXT. WALLS)
#4 @ 12" O.C., H.E.F. (TYP. @ INT. WALLS ON 6" STAGGER BTWN. FACES)
#4 x 10'-8" @ 12" V.E.F. TYP. @ INT. WALLS ON 9" (STAGGER BTWN. WALLS)
4 oz GEOTEXTILE FABRIC AROUND FILTER GRAVEL 6" LAP ON EDGES TYP. LENGTH 36" CTR'D ON WEEPS
2" CLEAR
10'-0"
2" Φ WEEP HOLES @ 20'-0" O.C. THRU EXT. RCB WALLS & @ WINGS (ELEV. OF WEEPS IN WINGS AS APPROVED BY ENGINEER/ARCHITECT)
18" RADIUS
#5 x 2'-6" DWL'S @ 6" O.C. (MK 500) (TYP. @ EXT. WALLS)
#4 x 2'-6" DWL'S @ 18" O.C. E.F. (MK 500) (TYP. E.F. @ INT. WALLS ON 9" STAGGER SPC'G BTWN FACES)
1'-0"
40 #4 CONT. (22 TOP, 18 BOT.)
3" CLEAR
6" TYP
#5 x 32'-8" @ 8" O.C. (TOP)
#5 x 26'-0" @ 6" O.C. (BOT.) (CTR ON BOX ℄)
3" SEAL COURSE OF 2000 PSI CONC. @ CONTRACTORS OPTION

1 SECT. THRU 3-10x10 RCB EXTENSION

1/2" = 1'-0"

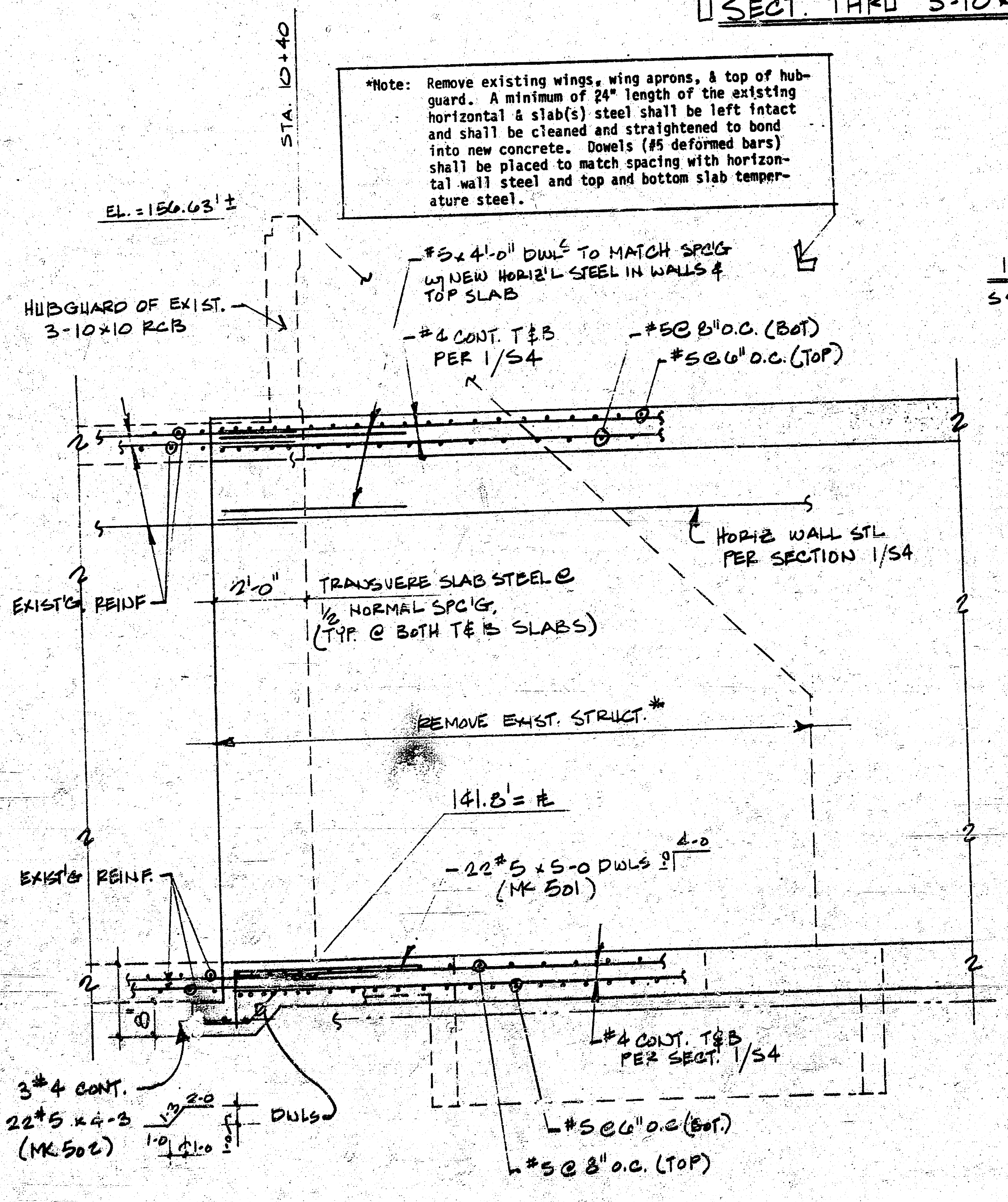


#4 x 2 - 8	MK 400	2-0, 2-9
#4 x 40 - 0	MK 401	37-4, 2-8
#4 x 4 - 0	MK 402	2-0, 2-0
#4 x 2 - 6	MK 403	6, 2-0
#4 x 4 - 9	MK 404	2-9, 2-0
#4 x 2 - 6	MK 405	2-6, 2-0
#4 x 17 - 4	MK 406	2-0, 4-0, 4-4, 4-0, 2-0
#5 x 2 - 6	MK 500	2-0, 6
#5 x 5 - 0	MK 501	1-0, 4-0
#5 x 4 - 3	MK 502	1-0, 1-3, 2-0
#5 x 11 - 0	MK 503	2-4, 8-8
#6 x 11 - 8	MK 600	3-0, 8-8
#6 x 16 - 9	MK 601	13-9, 3-0

2 REBAR BENDING LEGEND

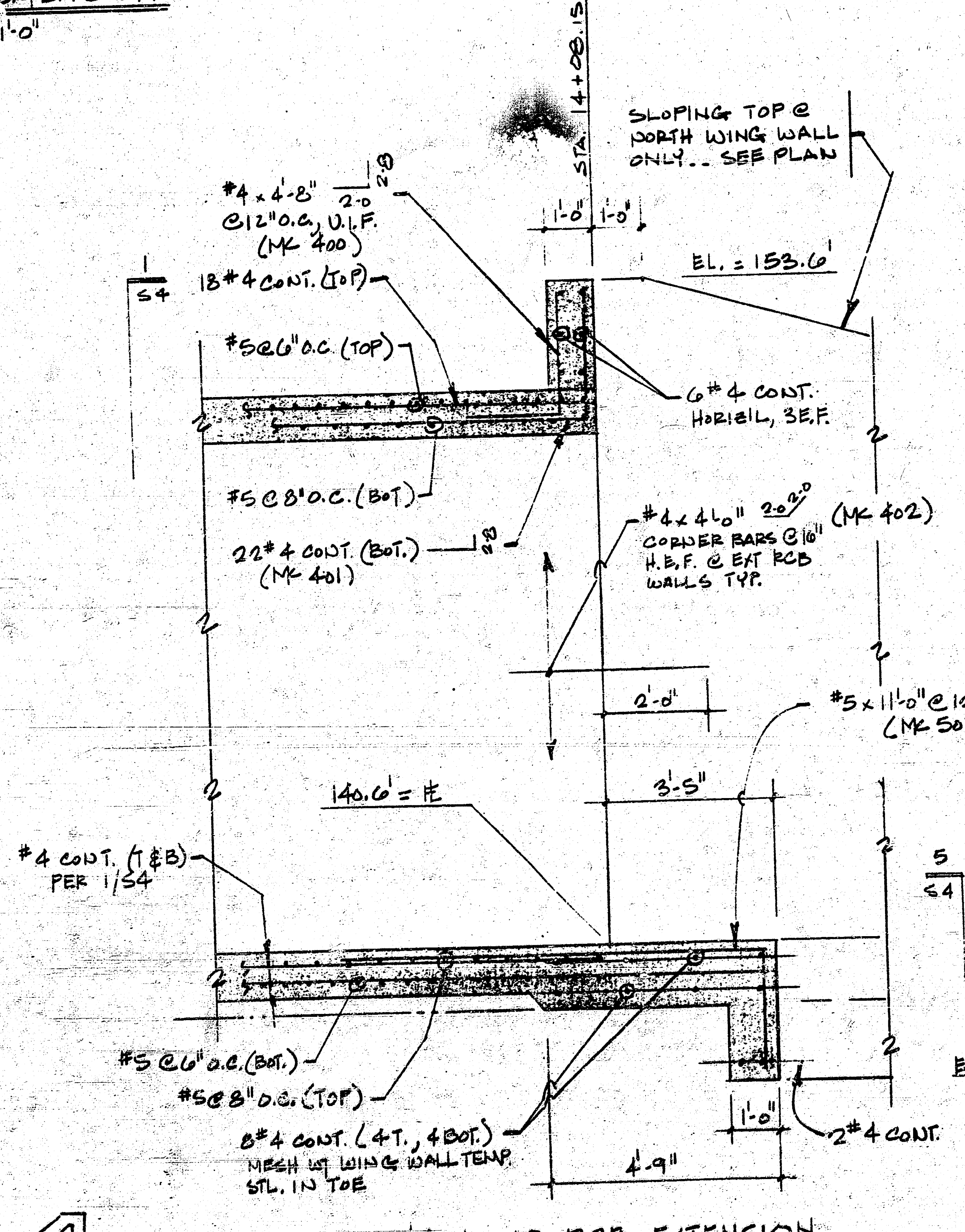
NO SCALE

*Note: Remove existing wings, wing aprons, & top of hubguard. A minimum of 24" length of the existing horizontal & slab(s) steel shall be left intact and shall be cleaned and straightened to bond into new concrete. Dowels (#5 deformed bars) shall be placed to match spacing with horizontal wall steel and top and bottom slab temperature steel.


STA. 10+40
EL. = 156.63' ±
HUBGUARD OF EXIST. 3-10x10 RCB
#5 x 4'-0" DWL'S TO MATCH SPC'G W/ NEW HORIZ'L STEEL IN WALLS & TOP SLAB
#4 CONT. T&B PER 1/S4
#5 @ 8" O.C. (BOT)
#5 @ 6" O.C. (TOP)
1/S4
HORIZ WALL STL PER SECTION 1/S4
EXIST'G REINF.
2'-0"
TRANSVERSE SLAB STEEL @ 1/2 NORMAL SPC'G. (TYP. @ BOTH T&B SLABS)
REMOVE EXIST. STRUCT.*
141.8' = ℄
22 #5 x 5-0 DWLS (MK 501)
EXIST'G REINF.
3 #4 CONT.
22 #5 x 4-3 (MK 502)
DWLS
#4 CONT. T&B PER SECT. 1/S4
#5 @ 6" O.C. (BOT.)
#5 @ 8" O.C. (TOP)

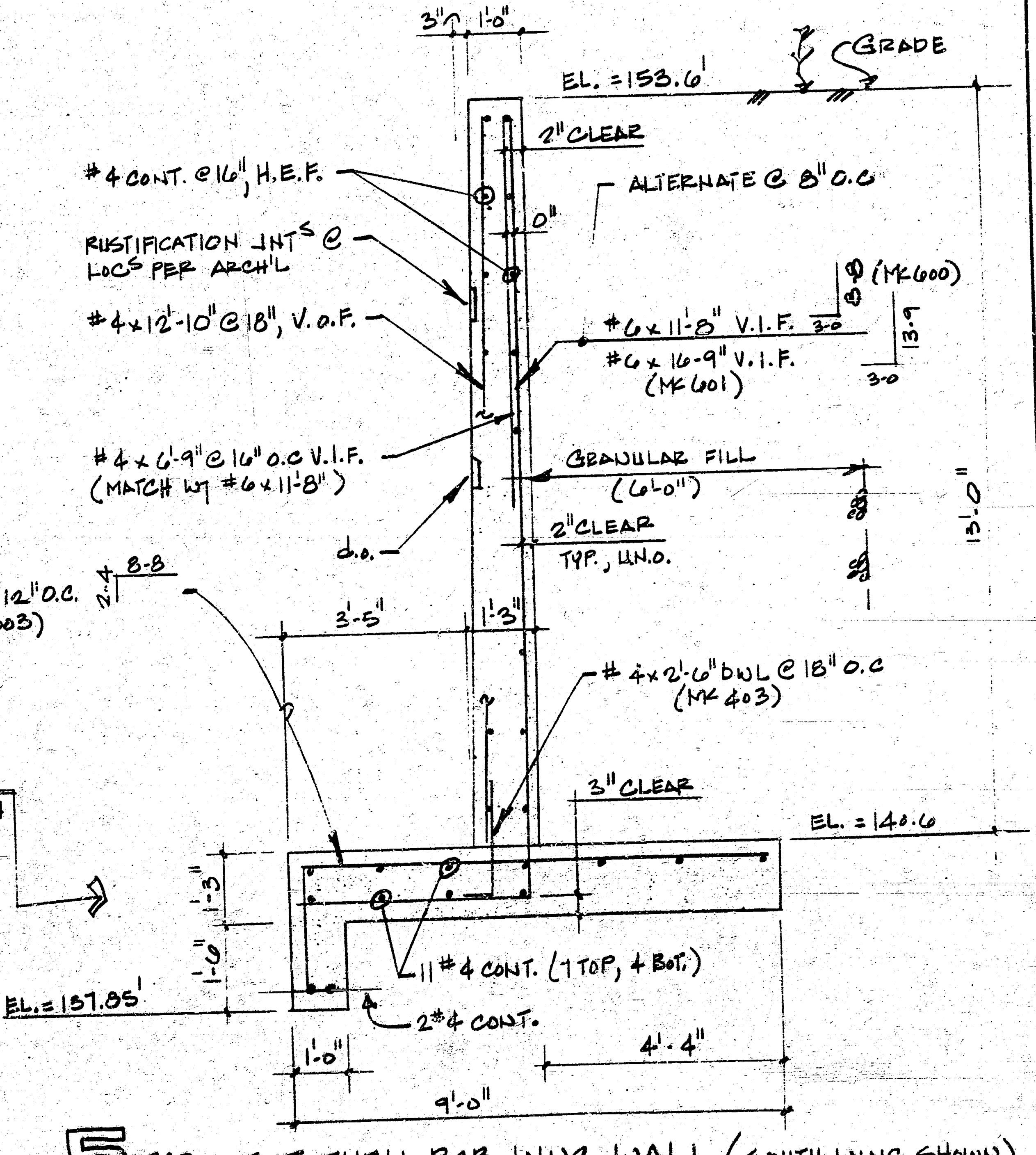
3 CONN. DETAIL OF RCB EXTENSION TO EXIST. 3-10x10 RCB

1/2" = 1'-0"


STA. 14+08.15
1/S4
#4 x 4'-8" @ 12" O.C. V.I.F. (MK 400)
18 #4 CONT. (TOP)
SLOPING TOP @ NORTH WING WALL ONLY .. SEE PLAN
1'-0"
1'-0"
EL. = 153.6'
#5 @ 6" O.C. (TOP)
6 #4 CONT. HORIZ'L, 3E.F.
#5 @ 8" O.C. (BOT.)
#4 x 4'-0" CORNER BARS @ 16" H.E.F. @ EXT RCB WALLS TYP. (MK 402)
22 #4 CONT. (BOT.) (MK 401)
2'-0"
140.6' = ℄
3'-5"
#5 x 11'-0" @ 12" O.C. (MK 503)
#4 CONT. (T&B) PER 1/S4
5/S4
#5 @ 6" O.C. (BOT.)
#5 @ 8" O.C. (TOP)
8 #4 CONT. (4T., 4 BOT.) MESH W/ WING WALL TEMP. STL. IN TOE
1'-0"
2 #4 CONT.
4'-9"

4 SECT. @ OUTFALL OF 3-10x10 RCB EXTENSION

1/2" = 1'-0"



5 TYP. SECT. THRU RCB WING WALL. (SOUTH WING SHOWN)

(NOTE: EL. TOP VARIES @ NORTH WING)

1/2" = 1'-0"

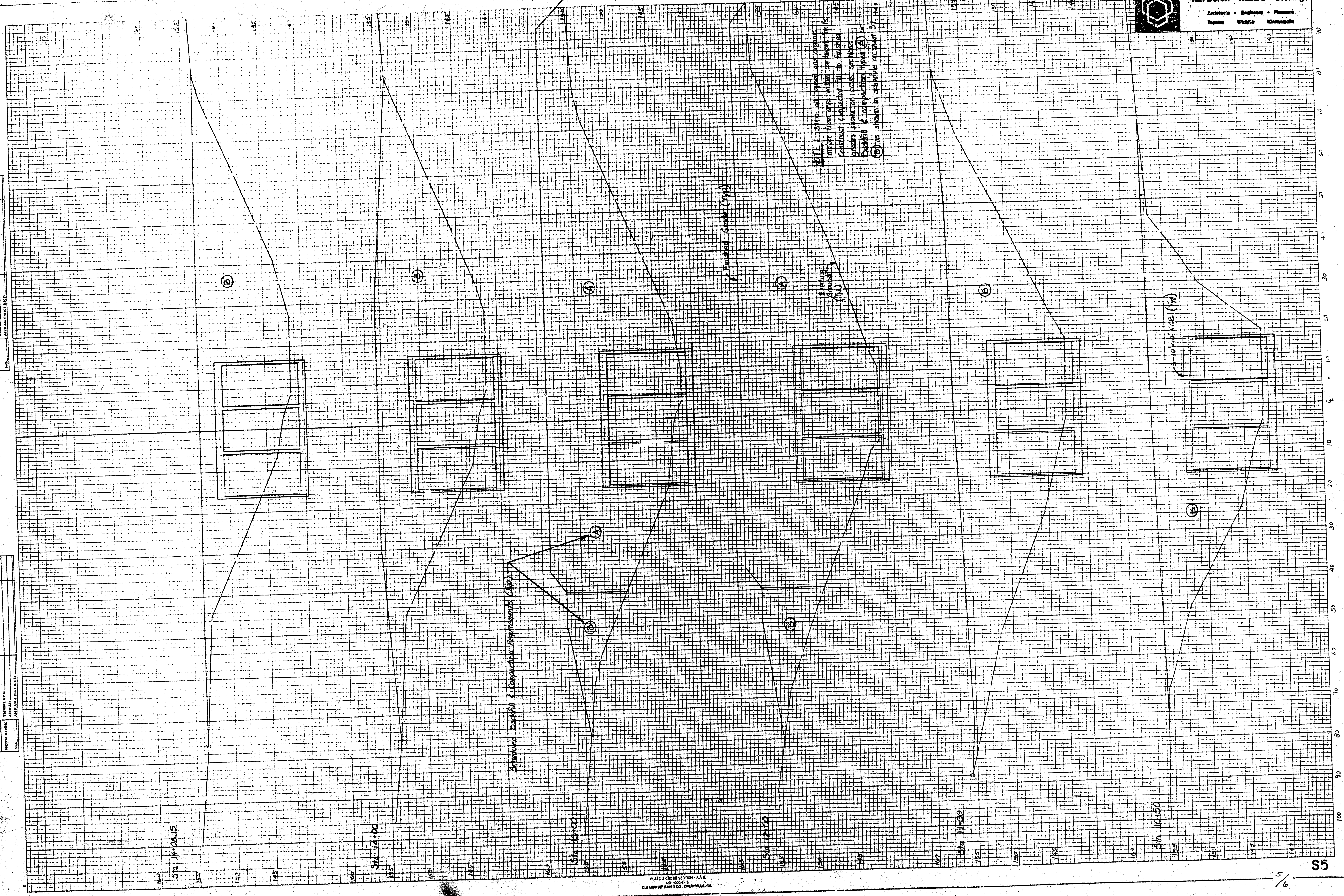
project no.

VENTURE PARK PLAT PROJECT
WICHITA, KANSAS

Van Doren · Hazard · Stallings
Architects · Engineers · Planners
Topeka Wichita Minneapolis

sheet
S4
of
4/6

Van Doren - Hazard - Stallings
Architects • Engineers • Planners
Topeka Wichita Minneapolis



NOTE 1: Strip all topsoil and organic matter from area within earthwork limits. Construct compacted fill to finished grades shown on cross sections. Backfill & compaction types Ⓐ or Ⓑ as shown in schedule on sheet S1.

FINAL SURVEY
NOTE BOOK
NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY
NOTE BOOK
NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

PLATE 3 CROSS SECTION - F.A.S.
NO. 1000H-3
CLEARPRINT PAPER CO., EMERYVILLE, CA.

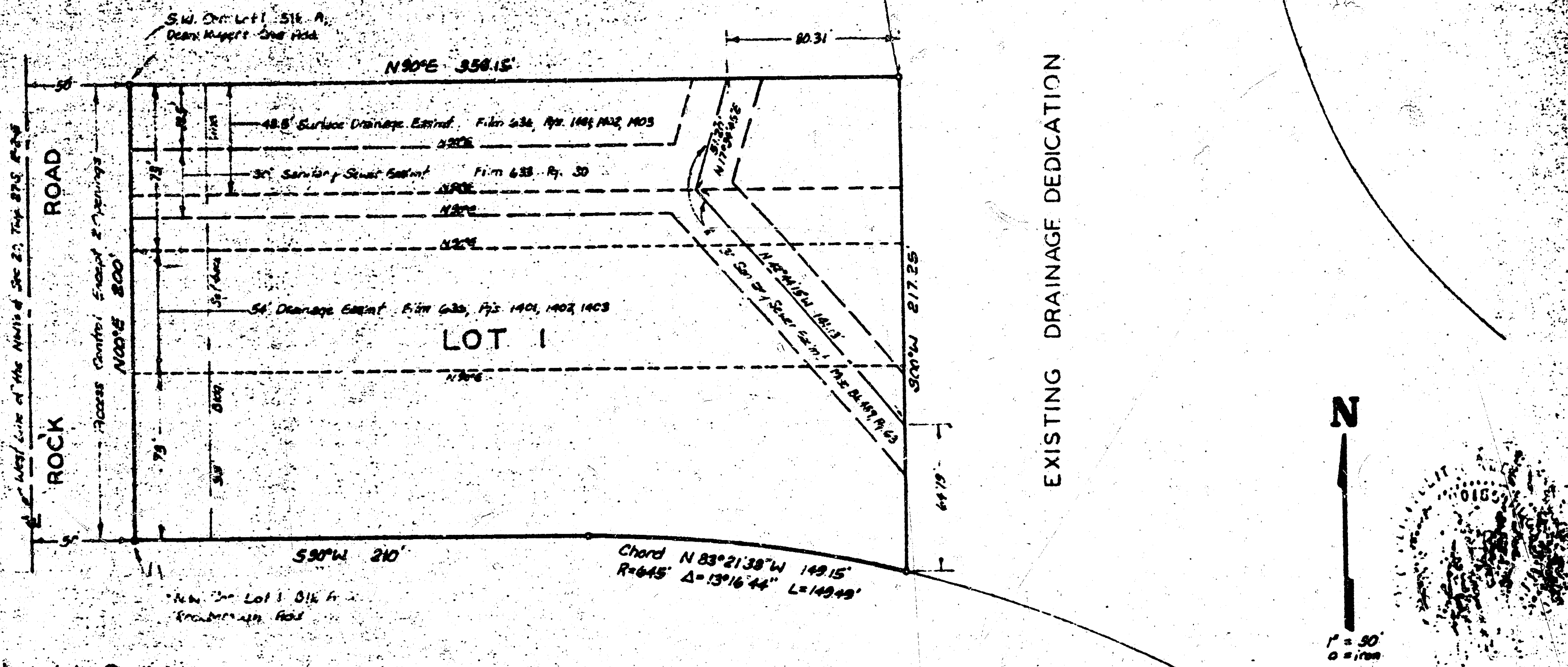
S5

Rec
6-21-84

S-3 6-31

VENTURE PARK ADDITION

WICHITA, KANSAS.


S.W. Cor. Lot 1, Blk. A, Dean Rupert's 2nd Add.
N90°E 358.15'
80.31'
48.5' Surface Drainage Easmt. Film 636, Pgs. 1401, 1402, 1403
30' Sanitary Sewer Easmt. Film 633, Pg. 30
54' Drainage Easmt. Film 636, Pgs. 1401, 1402, 1403
LOT 1
ROCK ROAD
Access Control Except 2 Openings
N00°E 200'
West Line of the NW 1/4 of Sec. 20, Twp. 27S, R2E
S90°W 210'
Chord N 83°21'38" W 149.15'
R=645' Δ=13°16'44" L=149.49'
S00°W 217.25'
EXISTING DRAINAGE DEDICATION
N
1" = 50'
o = iron

State of Kansas }
Sedgwick County } S.S. We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "VENTURE PARK ADDITION", Wichita, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed described as and being a replat of the west 358.15 feet of the drainage dedication as platted in Brookhollow First Addition to Wichita Sedgwick County, Kansas, lying between the south line of Lot 1, Block A, Dean Rupert Second Addition to Wichita, Sedgwick County, Kansas, and the north line of Lot 1, Block A, Rockborough Addition to Wichita Sedgwick County, Kansas. The above described portion of drainage dedication having been vacated and filed for record in the office of the Register of Deeds of Sedgwick County, Kansas, at Film 636, Pages 1401, 1402 and 1403. All being situated in the NW1/4 of Sec. 20, Twp. 27-S, R-2-E of the 6th. P.M., Sedgwick County, Kansas.

Baughman Company, P.A.

4-16-84
Date

William L. Kerber Surveyor
William L. Kerber

Know all men by these presents that we, the undersigned have caused the land described in the surveyors certificate to be platted into a lot to be known as "VENTURE PARK ADDITION", Wichita, Kansas. All abutters rights of access to or from Rock Road, over and across the west line of Lot 1, are hereby granted to the City of Wichita, provided however that Lot 1, shall have access to Rock Road at 2 points as shall be determined by the City Engineer of the City of Wichita, Kansas.

Frank L. Carney
Frank L. Carney

Zenda Carney

State of Kansas }
Sedgwick County } S.S. The foregoing instrument was acknowledged before me, this 16th day of April 1984, by Frank L. Carney and Zenda Carney, his wife.

Notary Public

My Appt. Exp.

This plat of "VENTURE PARK ADDITION", Wichita, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 8th day of March 1984.

Wichita-Sedgwick County Metropolitan Area Planning Commission.

Chairman
Robert K. Chisholm

Secretary
Robert A. Lakin

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of the City of Wichita, Kansas, this 15 day of MAY 1984.

Mayor
Robert G. Knight

City Clerk
Donald C. Gusich

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of Sedgwick County, Kansas, this day of 1984.

Chairman
Jack Spratt

Commissioner
Donald E. Gragg

Commissioner
Tom Scott

County Clerk
Dorothy K. White

Entered on transfer record this day of May 1984.

County Clerk
Dorothy K. White

State of Kansas }
Sedgwick County } S.S. This is to certify that this plat has been filed for record in the office of the Register of Deeds, this day of 1984, at o'clock M. and is duly recorded.

Register of Deeds
Bette F. McCart

Deputy
Pat Kettler

14 5 2 10

6/6

S-3 6-31

FILMED FROM THE BEST