Sanitary Sewer Extension to Serve

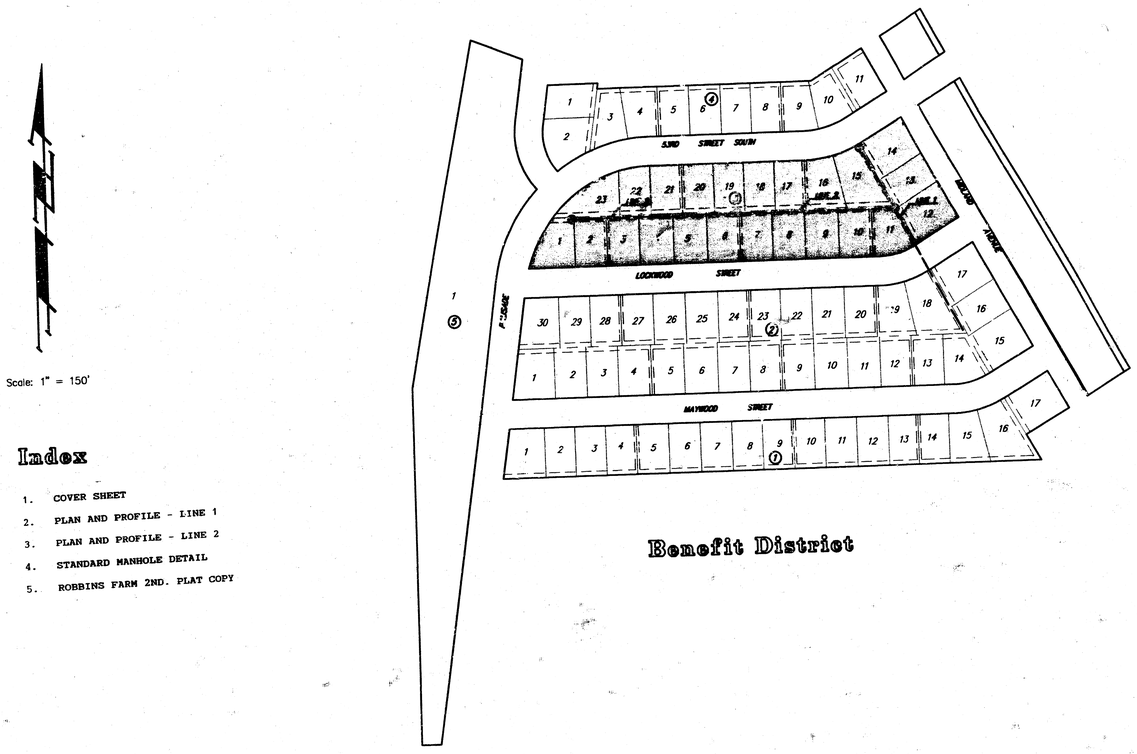
ROBBINS FARM 2ND ADDITION
LATERAL 293, - S.W.I.

INDEX CODE - 740654

Project No.

468-76-245-82087-000-000-001

City of Wichita, Kansas - Michael E. Lindebak, City Engineer



Benefit District

Scale: 1" = 150'

Index

1. COVER SHEET
2. PLAN AND PROFILE - LINE 1
3. PLAN AND PROFILE - LINE 2
4. STANDARD MANHOLE DETAIL
5. ROBBINS FARM 2ND. PLAT COPY

General Notes

1. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.
3. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
4. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
5. Contractor shall grade the sanitary sewer alignment to the profile and elevation shown on the plans. All cost for grading shall be subsidiary to the project.

BUILT PER PLAN
RDL
6-91

N. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

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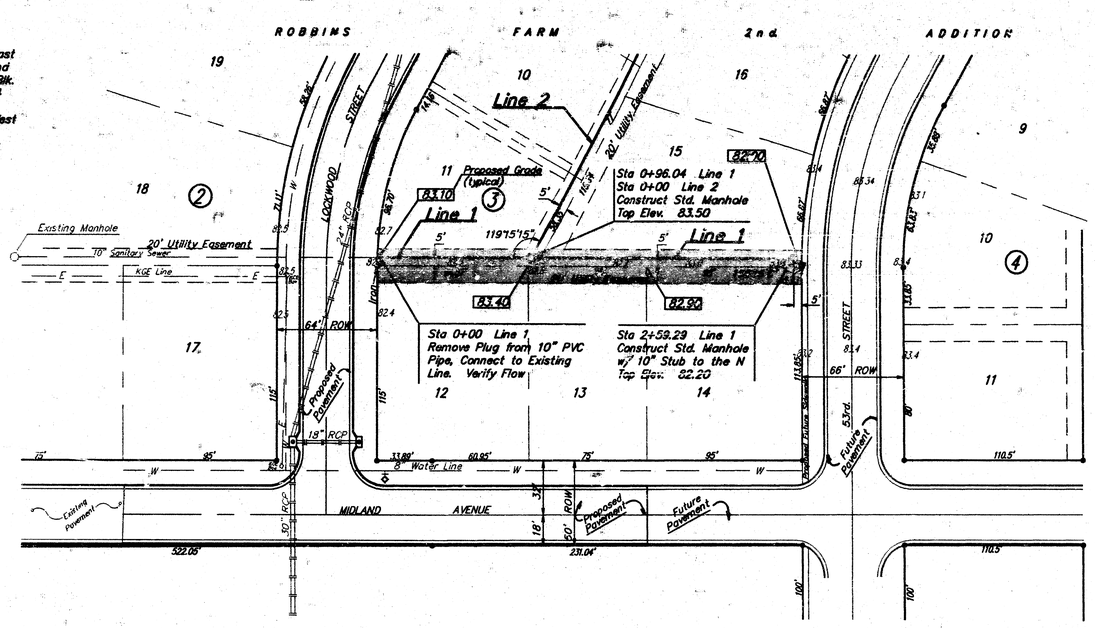
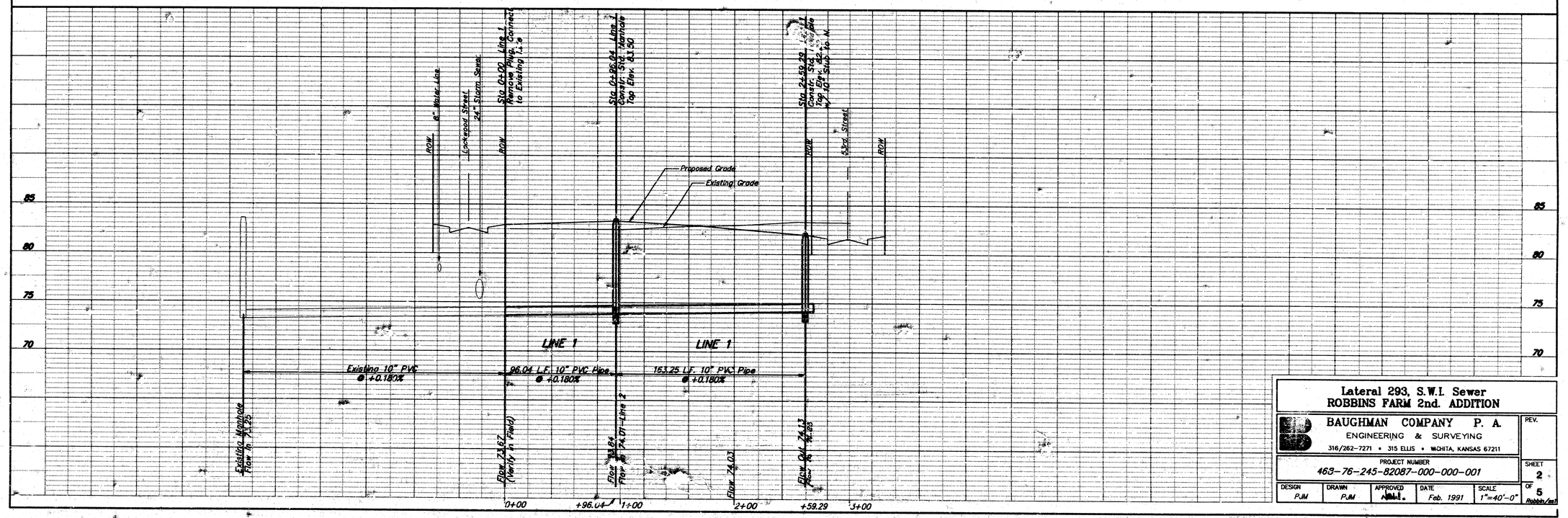
BENCH MARK: Square Cut in Top of Curb, East Side of Midland Avenue, 15 Feet South of End of Existing Pavement, Across From Lot 16, Blk. 2, Robbins Farm 2nd Addition, Elev. = 82.84

BENCH MARK: Square Cut in Top of Curb, West Side of Palisade, 13 Feet South of End of Existing Pavement, Across From Lot 1, Block 2, Robbins Farm 2nd Addition, Elev. = 85.41



Scale: 1"=40'-0"
Profile Vert. 1"=5'-0"
● = Iron

Indicates utility easement area to be graded per proposed plan elevations as shown in the boxes.



Lateral 293, S.W.I. Sewer
ROBBINS FARM 2nd. ADDITION

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV.

PROJECT NUMBER
463-76-245-82087-000-000-001

SHEET 2 OF 5

DESIGN	DRAWN	APPROVED	DATE	SCALE
PJM	PJM		Feb. 1991	1"=40'-0"

Robbin/sht

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BENCH MARK: Square Cut in Top of Curb, East Side of Midland Avenue, 15 Feet South of End of Existing Pavement, Across From Lot 16, Blk. 2, Robbins Farm 2nd Addition, Elev. = 82.84

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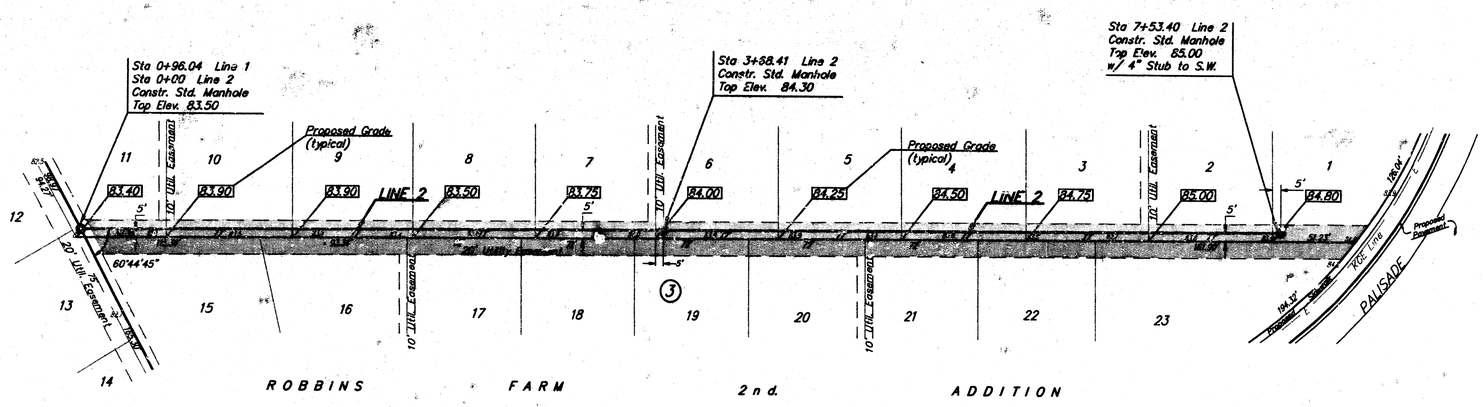
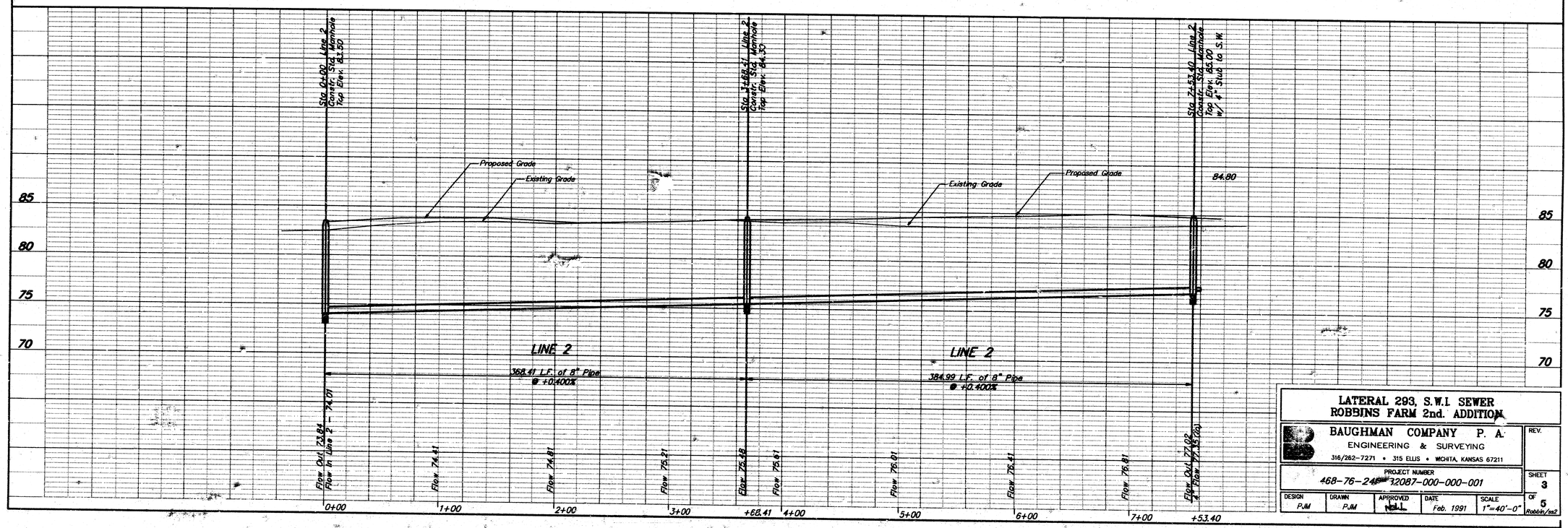


Indicates utility easement area to be graded per proposed plan elevations as shown in the boxes.



LATERAL 293, S.W.I SEWER
ROBBINS FARM 2nd. ADDITION

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REV.

PROJECT NUMBER
468-76-248 32087-000-000-001

SHEET 3 OF 5

DESIGN	DRAWN	APPROVED	DATE	SCALE
PJM	PJM	[illegible]	Feb. 1991	1"=40'-0"

Robbin/se2

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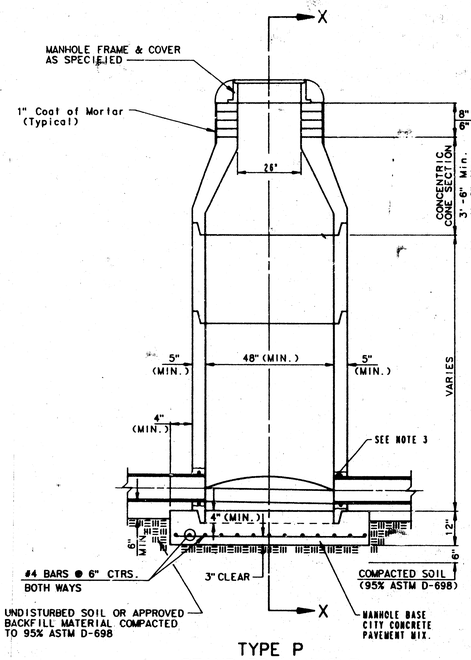
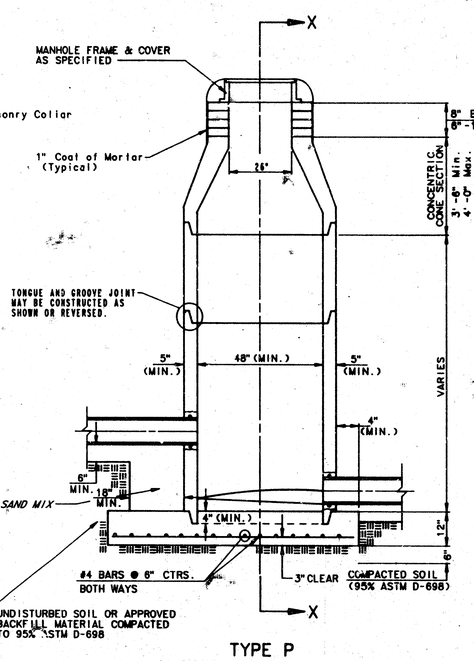
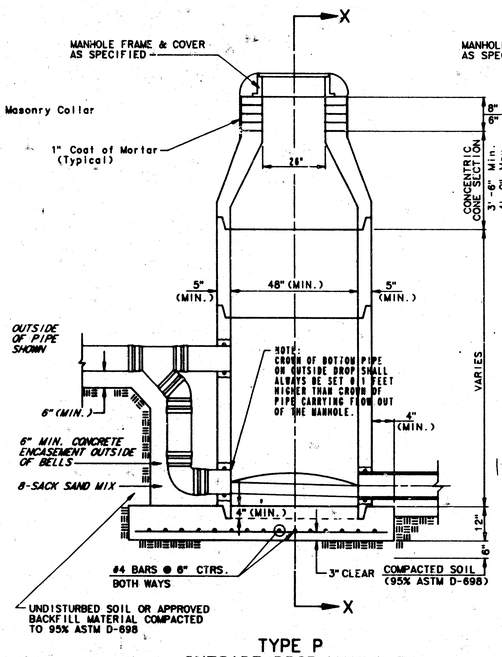
SEWER APPURTENANCES DETAILS
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA



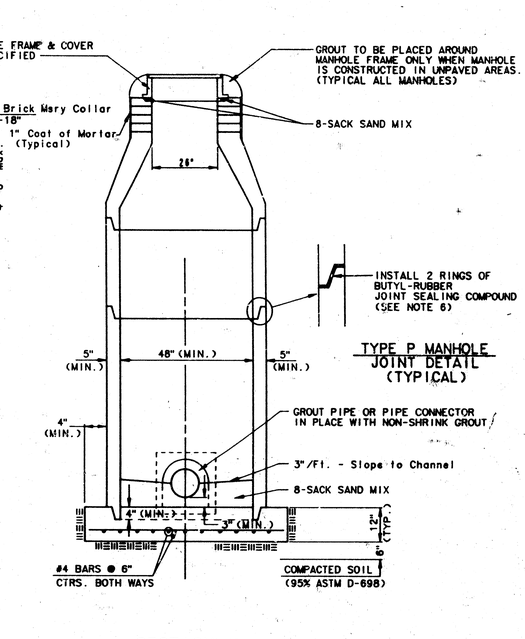
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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. 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'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" 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.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED OR 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 INTO 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. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. 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 SEDAGE 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 3 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.
14. 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.
15. 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.
16. 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.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR.

Revised: June 12, 1986

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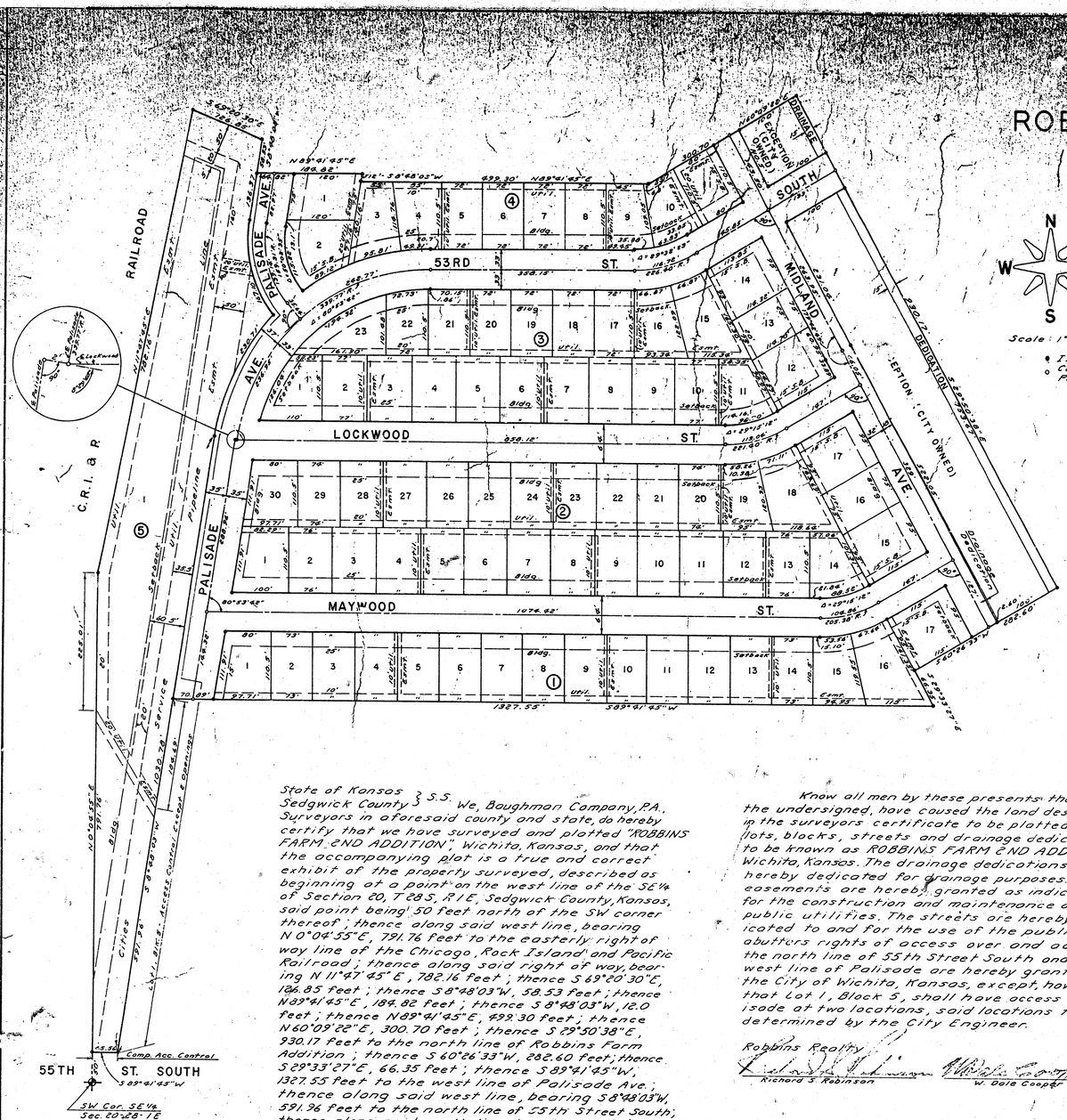
ROBBINS FARM 2ND ADDITION

WICHITA, KANSAS


RAILROAD
C.R.I. & P.
PALISADE AVE.
MIDLAND
SOUTH
53RD ST.
LOCKWOOD ST.
MAYWOOD ST.
55TH ST. SOUTH
Comp. Acc. Control
SW Cor. SE¼ Sec. 20-28-1E
Utility Pipeline
Setback
Bldg.
Utility Easement
Access Control
Existing Fence
Existing Gate
Existing Curb Cut
Proposed Curb Cut
Proposed Sidewalk
Existing Sidewalk
Existing Curb
Existing Asphalt
Existing Concrete
Existing Gravel
Existing Dirt
Existing Grass
Existing Trees
Existing Shrubs
Existing Bushes
Existing Flowers
Existing Vines
Existing Ivy
Existing Moss
Existing Rocks
Existing Boulders
Existing Pebbles
Existing Sand
Existing Soil
Existing Water
Existing Ice
Existing Snow
Existing Rain
Existing Wind
Existing Clouds
Existing Sun
Existing Moon
Existing Stars
Existing Planets
Existing Galaxies
Existing Universe
Existing Time
Existing Space
Existing Matter
Existing Energy
Existing Light
Existing Dark
Existing Color
Existing Shape
Existing Size
Existing Weight
Existing Mass
Existing Density
Existing Volume
Existing Area
Existing Length
Existing Width
Existing Height
Existing Depth
Existing Distance
Existing Speed
Existing Velocity
Existing Acceleration
Existing Force
Existing Pressure
Existing Temperature
Existing Heat
Existing Cold
Existing Hot
Existing Warm
Existing Cool
Existing Freezing
Existing Boiling
Existing Melting
Existing Evaporating
Existing Condensing
Existing Sublimating
Existing Depositing
Existing Ionizing
Existing Deionizing
Existing Electrifying
Existing Magnetizing
Existing Demagnetizing
Existing Radiating
Existing Absorbing
Existing Reflecting
Existing Refracting
Existing Diffracting
Existing Interfering
Existing Polarizing
Existing Depolarizing
Existing Modulating
Existing Demodulating
Existing Amplifying
Existing Attenuating
Existing Filtering
Existing Rectifying
Existing Inverting
Existing Converting
Existing Transforming
Existing Transducing
Existing Transmitting
Existing Receiving
Existing Switching
Existing Routing
Existing Multiplexing
Existing Demultiplexing
Existing Encoding
Existing Decoding
Existing Encrypting
Existing Decrypting
Existing Compressing
Existing Decompressing
Existing Archiving
Existing Retrieving
Existing Storing
Existing Deleting
Existing Copying
Existing Moving
Existing Renaming
Existing Searching
Existing Sorting
Existing Indexing
Existing Hashing
Existing Caching
Existing Buffering
Existing Queuing
Existing Scheduling
Existing Dispatching
Existing Interrupting
Existing Trapping
Existing Exception
Existing Error
Existing Warning
Existing Message
Existing Log
Existing Trace
Existing Debug
Existing Profile
Existing Test
Existing Benchmark
Existing Simulation
Existing Emulation
Existing Virtualization
Existing Containerization
Existing Orchestration
Existing Deployment
Existing Monitoring
Existing Alerting
Existing Logging
Existing Tracing
Existing Debugging
Existing Profiling
Existing Testing
Existing Benchmarking
Existing Simulating
Existing Emulating
Existing Virtualizing
Existing Containerizing
Existing Orchestrating
Existing Deploying