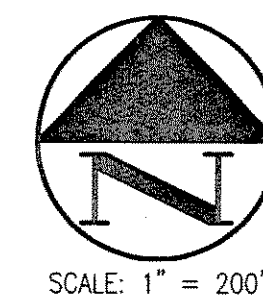
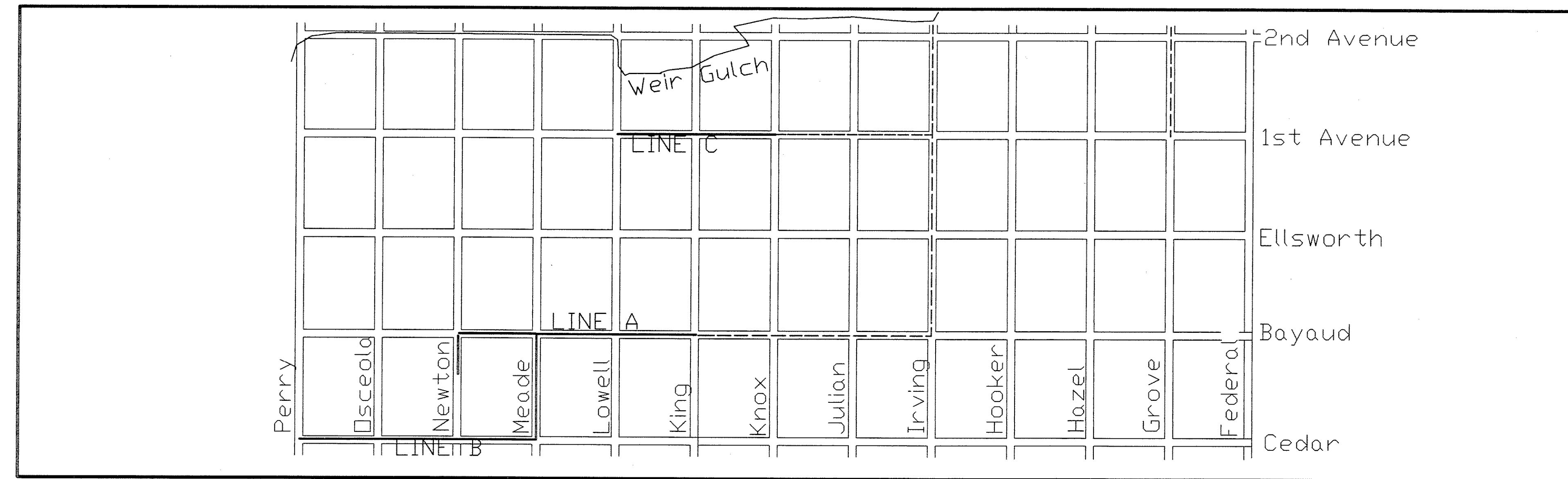


CITY AND COUNTY OF DENVER

DEPARTMENT OF PUBLIC WORKS

WASTEWATER MANAGEMENT DIVISION

PROJECT NO. W80-138C
BAYAUD AND HOOKER STORM SEWER
(PHASE III)



SHEET NUMBER AND INDEX OF SHEETS	
SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	GENERAL NOTES AND LEGEND
3	PLAN - LINE A/B
4	PLAN - LINE B
5	PROFILE - LINE A
6	PROFILE - LINE A/B
7	PROFILE - LINE B
8	PLAN & PROFILE - LINE C



SUBMITTED BY: Isaac Jain PROJECT DESIGN ENGINEER DATE: 8/30/99

THROUGH: Jim Asseman CHIEF DESIGN ENGINEER DATE: 8/30/99

RECOMMENDED BY: Joseph [Signature] DIRECTOR OF ENGINEERING DATE: 8/30/99

APPROVED: _____ DATE: _____
MANAGER OF PUBLIC WORKS

APPROVED: [Signature] DATE: 8/30/99
DEPUTY MANAGER FOR WASTEWATER MANAGEMENT

APPROVED: _____ DATE: _____
MAYOR'S OFFICE OF CONTRACT COMPLIANCE

APPROVED: _____ DATE: _____
EXECUTIVE DIRECTOR - UDFCD

APPROVED: _____ DATE: _____
CHIEF OF UDFCD DESIGN AND CONSTRUCTION PROGRAM

Title Sheet	
AS CONSTRUCTED Revised By: _____ Date: _____ Const. Engineer: _____ Date: _____ Design Engineer: _____ Date: _____	Project No.: W80-138C Designed by: I.J. Checked by: J.M. Sheet Number: 1
City and County of Denver Department of Public Works Wastewater Management Division Telephone: (303) 446-3644 Fax: (303) 446-3647 2000 W. 3rd Ave. Denver, Colorado 80223	
Computer File Information Creation Date: 7/6/99 Initials: I.J. As Built Date: _____ Initials: _____ Full Path: \\Land_Desktop\W80-138C\dwg Drawing File Name: Ts.DWG Acad Ver. R14 Scale: NA Units: English	
SEWER PLAT BOOK REVISED	

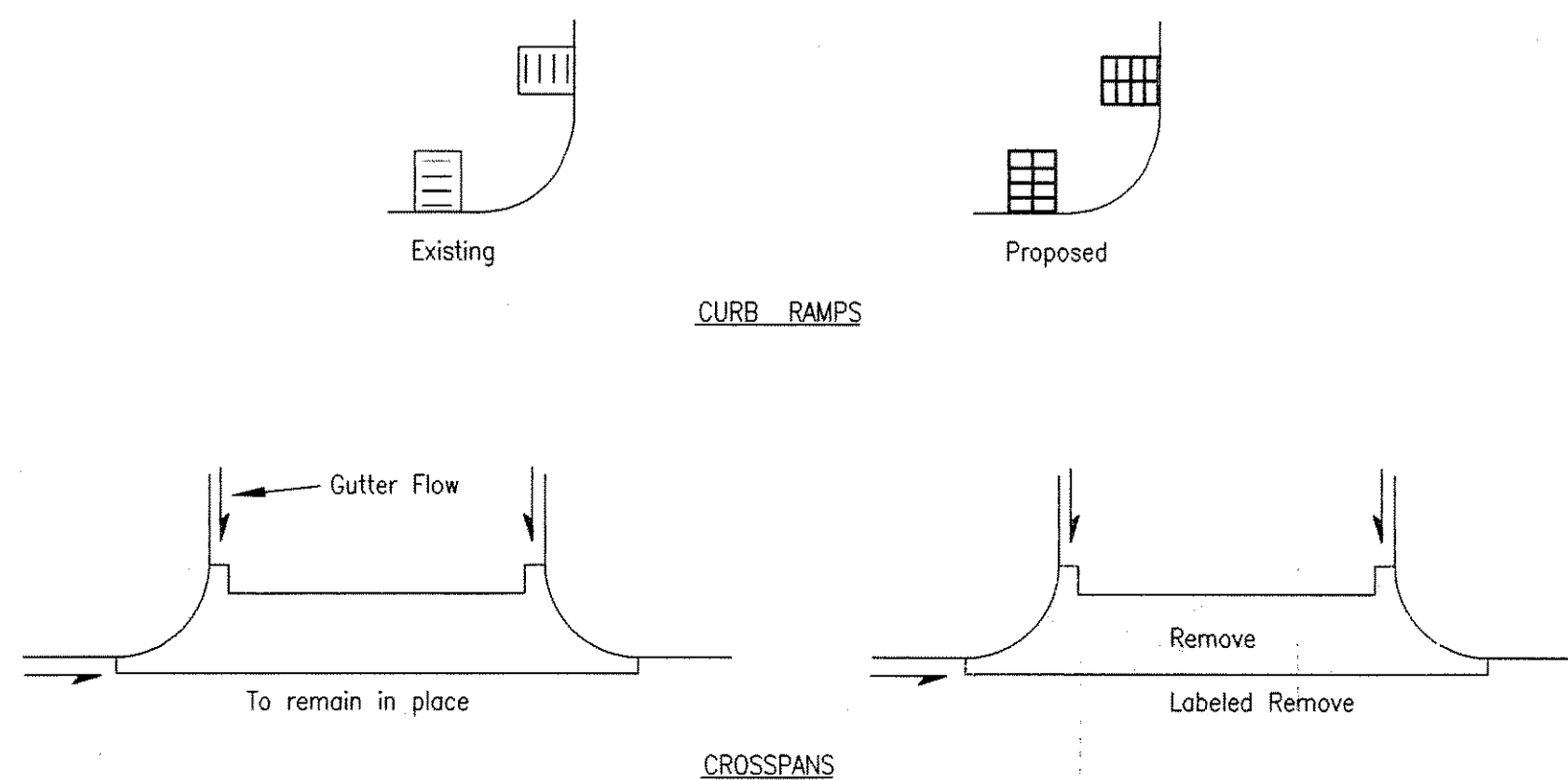
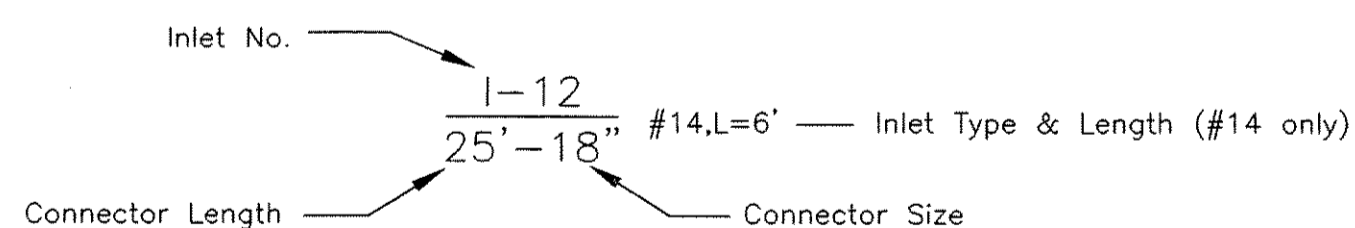
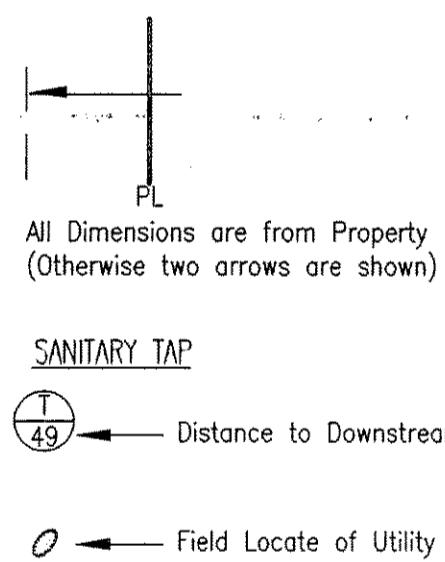
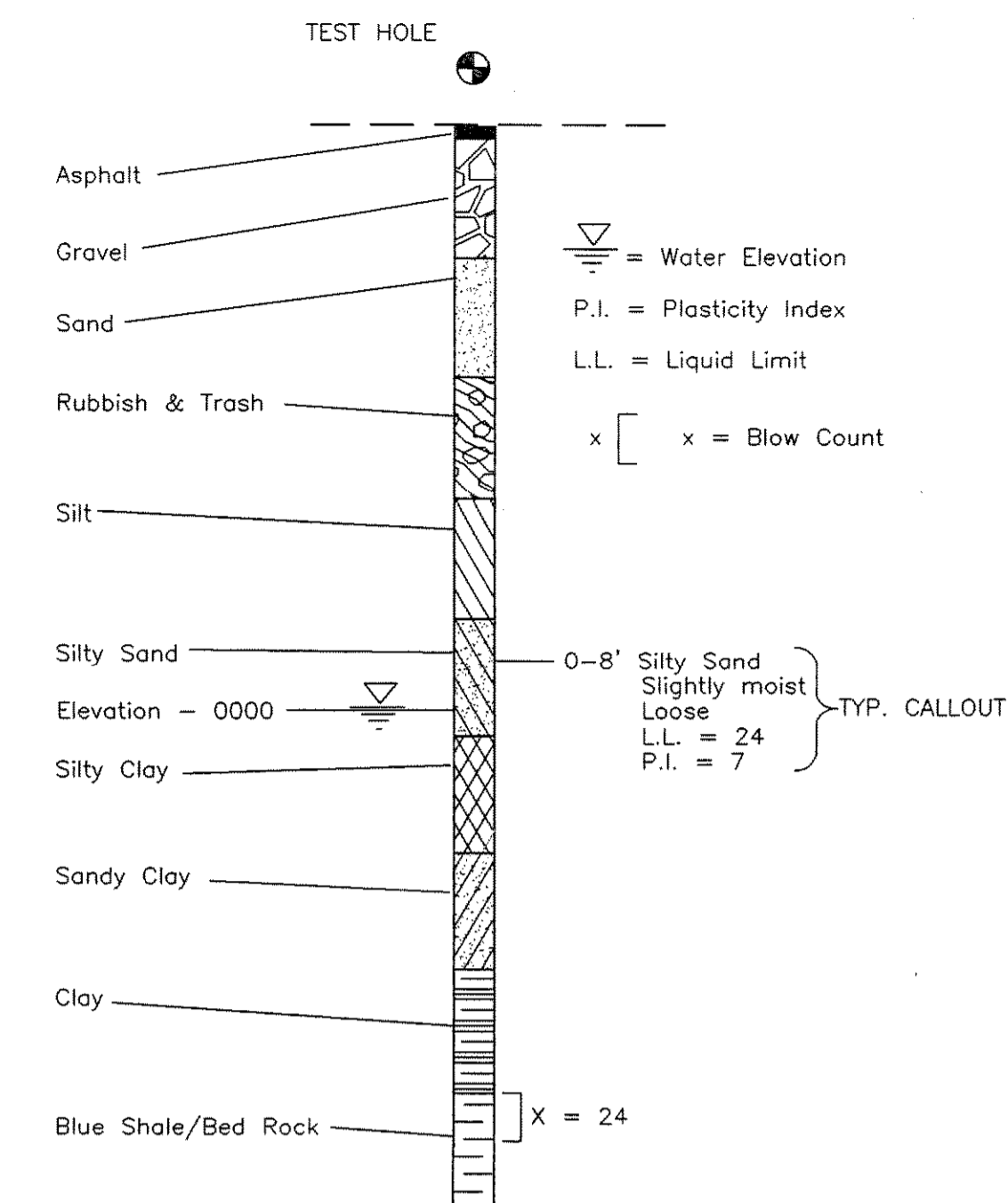
General Notes

- When locations of test holes and conditions encountered therein are shown on the drawings, they are not guaranteed to reflect the situations that may actually be found. Contractor submitting bids shall make whatever additional tests and investigations deemed necessary. When soils information does not appear on the plans it will be in the specifications.
- All range points or other survey monuments which may be destroyed during construction shall be tied out and reset by city survey crews under the City Engineer. Contractor shall be responsible for protecting all other monuments.
- All existing grates, frames and pipe which are salvageable shall be transported and stored at W.M.D. maintenance yard located at W.M.D., 2000 W. 3rd Ave., Denver.
- Inlets and Manholes are not shown to scale on the plan and profile sheets. Manhole risers/adjustment rings shall be included in the price bid for the manhole.
- Laps for reinforcing bars, except where otherwise shown or noted, shall be Class B splices (splice no more than half of bars at any location). Laps in horizontal steel shall be staggered unless otherwise shown.
- All rebar shall be placed as per Engineer-approved shop drawings only.
- All crossing reinforcing bars shall be tied.
- Dowels, pipes, waterstops and other installed materials and accessories shall be held securely in position while concrete is being placed.
- Reinforcing steel shall be hot rolled deformed bars, ASTM Designation A615, Grade 60.
- All elevations shown are U.S.G.S. datum.
- All connector pipe shall be ASTM C-76, CL III, R.C.P. unless otherwise noted.
- Location of inlets and/or inlet connectors may be adjusted in field under the direction of the project Manager provided compensation is made for hydraulic capacity. All inlet connections shown in Plan and Profile are approximate locations.
- Use Class B Bedding for all pipe. (See STD. Details S-301.1+ S-301.2)
- This project is designed for the 2 year (initial) storm.
- Select backfill will be used only if the Contractor is unable to obtain the specified maximum density, subject to the approval of the Project Manager. Payment for Select Backfill shall be for imported material only.
- The Contractor shall take all precautionary measures necessary to protect existing improvements, which are to remain in place, from damage and all such improvements or structures damaged by the Contractors operations shall be repaired or reconstructed to the satisfaction of Project Manager at the expense of the Contractor.
- The Contractor shall not remove trees, shrubs, lawns, walls, fences, signs, structures, lights or any existing improvements outside and/or inside street right-of-way, except where required to do so by the contract drawings or by the Project Manager.
- Replacement, relocation, or reconstruction of all existing improvements including sprinkler systems, lawns, fences, walls, signs, steps, sidewalks, driveways, lawn lights and all other items applicable to this contract shall be as required by the Project Manager.
- The Contractor shall backfill and fine grade all cuts or fill slopes to match existing conditions to the satisfaction of the Project Manager. Where existing lawns are damaged by the Contractors operations, the Contractor shall re-seed and/or sod the affected area to a condition equal to, or better than that which existed prior to construction.
- Exact location of all sawcuts shall be determined in the field by the Project Engineer.
- On all cast-in-place reinforced concrete structures the Contractor shall supply adequate bar chairs and supports for reinforcing subject to the approval of the Project Engineer.
- No more than 1 storm inlet connector pipe may be connected to a length of mainline pipe.
- All pipe 36" diameter or greater joints shall be "O" ring rubber gasketed.

Abbreviations

- | | |
|-------------------------------------|--|
| CL - Center Line | MH - Manhole |
| C & G - Curb & Gutter | NTS - Not To Scale |
| C.G. & SW - Curb, Gutter & Sidewalk | PL - Property Line |
| C.H. - Curb Head | PVC - Poly Vinyl Chloride |
| D.W.B. - Denver Water Board | q - Design Flow |
| E.F. - Each Face | Q - Full Flow Capacity (c.f.s.) at indicated slope |
| E.O. - Edge of Oil | RCP - Reinforced Concrete Pipe |
| E.S. - Each Side | R.L. - Range Line |
| E.W. - Each Way | T.C. - Top of Concrete |
| F.G. - Final Grade | T.O.P. - Top on Pipe |
| FL - Flow Line | T.O.S. - Top of Slab |
| H.G.L. - Hydraulic Grade Line | T.O.W. - Top of Wall |
| I - Inlet | Typ. - Typical |
| Inv. - Invert | W.M.D. - Wastewater Management Division |
| LL - Land Line | Sht. - Sheet |

Test Hole Log



Existing Features

- Coniferous Shrub
- Coniferous Tree
- Deciduous Shrub
- Deciduous Tree
- Bus Bench
- Mail Box
- Newspaper Box
- Trash Dumpster
- Trash Receptacle
- Barricade (Type III or IV)
- Sign
- Post
- Well
- Fire Hydrant
- Meter, Valve, Sprinkler Head
- Guy Wire
- Power Pole
- Street Light
- Traffic Light
- Pull Box (Electric)
- Pull Box (Traffic or Telephone)
- Traffic Control Box
- Existing Manhole
- Existing Manhole (Special)
- Existing Type 12 Inlet (Old Style)
- Existing Type 14 Inlet
- Existing Type 16 Inlet
- 4" Chain Link Fence
- 6" Wood Fence
- Barbed Wire Fence
- Existing Underground Telephone
- Existing Cable T.V.
- Existing Underground Electric
- Existing Overhead Electric
- Existing Gas Line
- Existing Steam Line
- Existing Water Main (<24")
- Existing Water Main (>24")
- Existing Sanitary Sewer (<24")
- Existing Sanitary Sewer (>24")
- Existing Storm Sewer (<24")
- Existing Storm Sewer (>24")

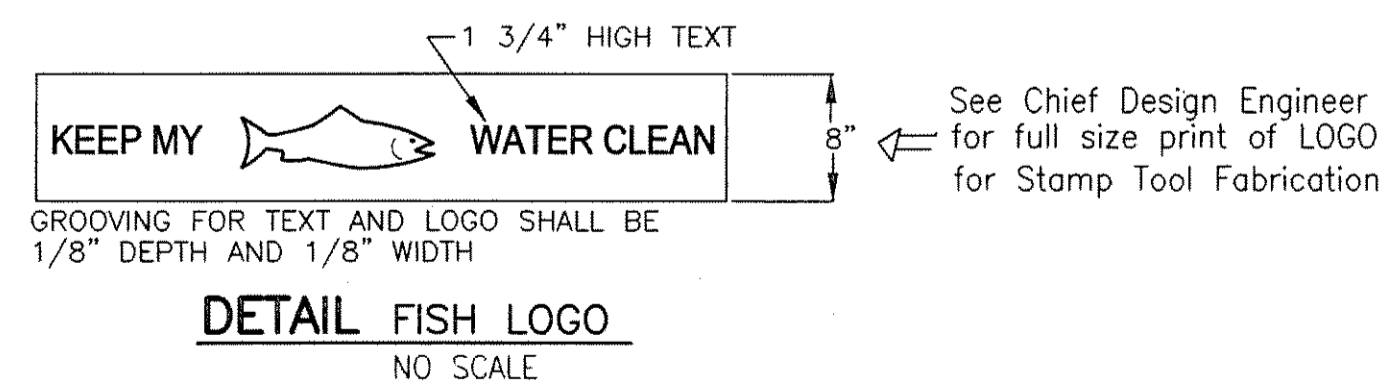
Proposed Features

- Proposed Manhole
- Proposed Manhole (Special)
- Type 14 Inlet
- Type 16 Inlet (Valley)
- Type 16 Inlet w/Open Throat
- Proposed Connector
- Proposed Sewer

Survey Symbols

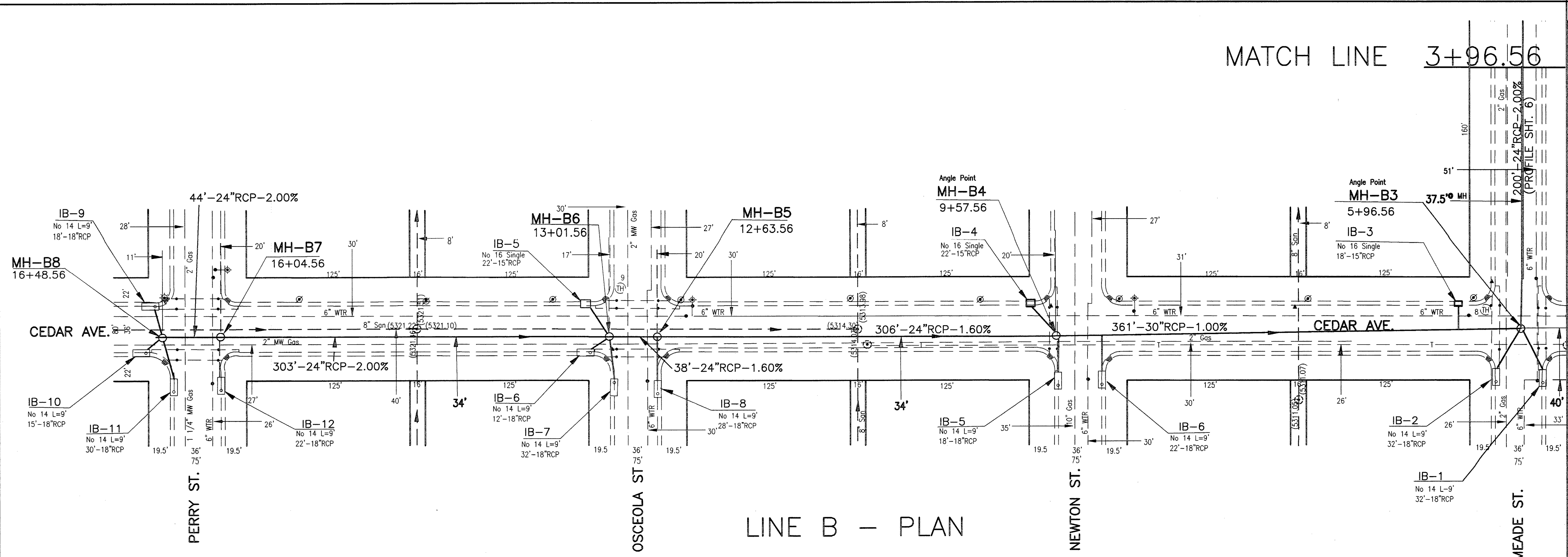
- Benchmark
- Chiseled "X"
- Land Corner
- Pin & Cap
- Property Corner
- Range Point
- Rebar
- Easement Line
- Section Line
- Property Line (not R.O.W.)
- Rangeline
- R.O.W. Line

NOTE: FISH LOGO TO BE APPLIED TO ALL INLETS AT TOP OF CURB CENTERED OVER THE INLET

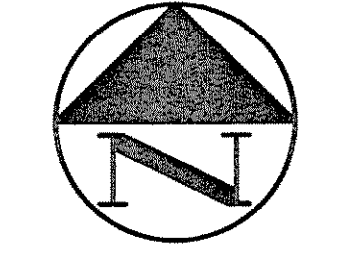


See Chief Design Engineer for full size print of LOGO for Stamp Tool Fabrication

General Notes & Legend		Project No.: W80-138C		Sheet Number 02
		Drawn by: D. Roberts	Checked by: I.J.	
City and County of Denver Department of Public Works Wastewater Management Division 2000 W. 3rd Ave. Telephone: (303) 446-3644 Denver, Colorado 80223 Fax: (303) 446-3647				
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As Built Date:				
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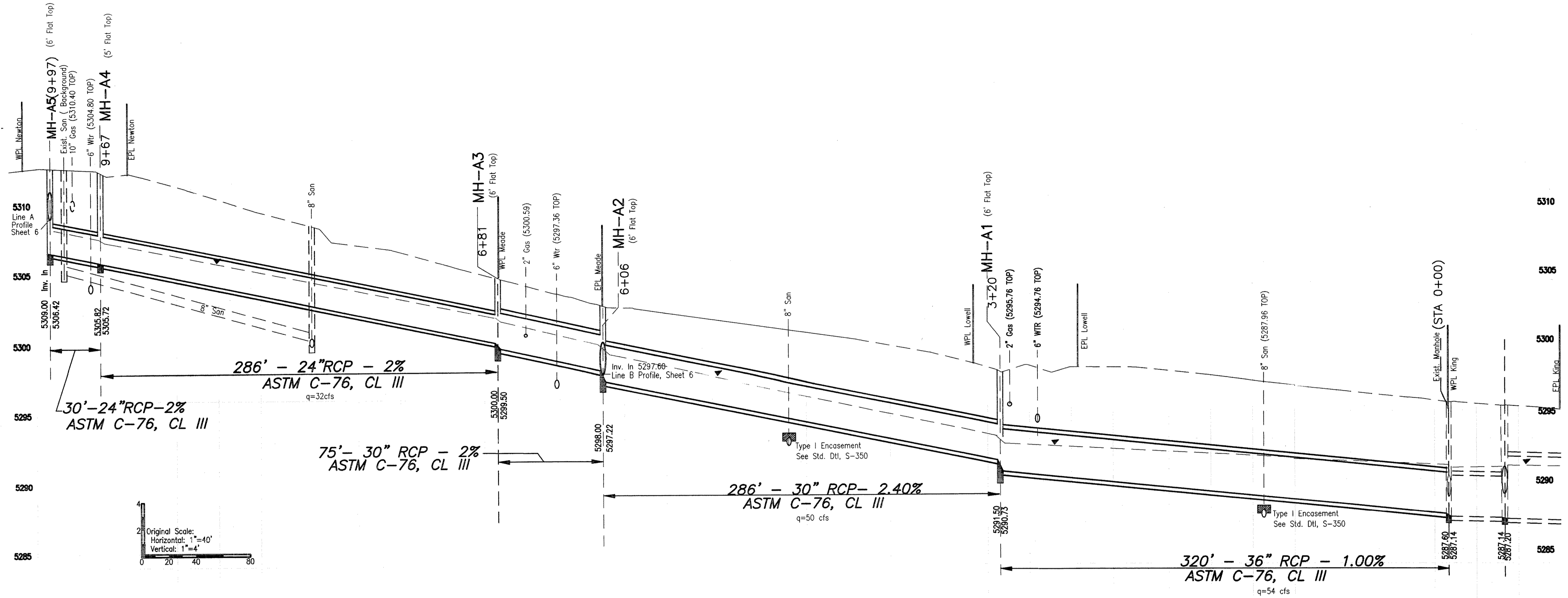
LINE B - PLAN



Original Scale: 1"=40'

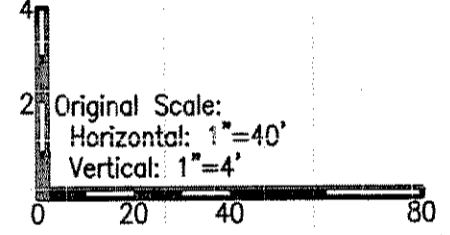
PROFILE ON SHEET 7

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As Built Date:		Wastewater Management Division			
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Drawing File Name:	Base Map	Denver, Colorado 80223		Designed by: I.J.	
Acad Ver.:	R14	Telephone: (303) 446-3644		Checked by: J.M.	
		Fax: (303) 446-3647		Sheet Number 04	

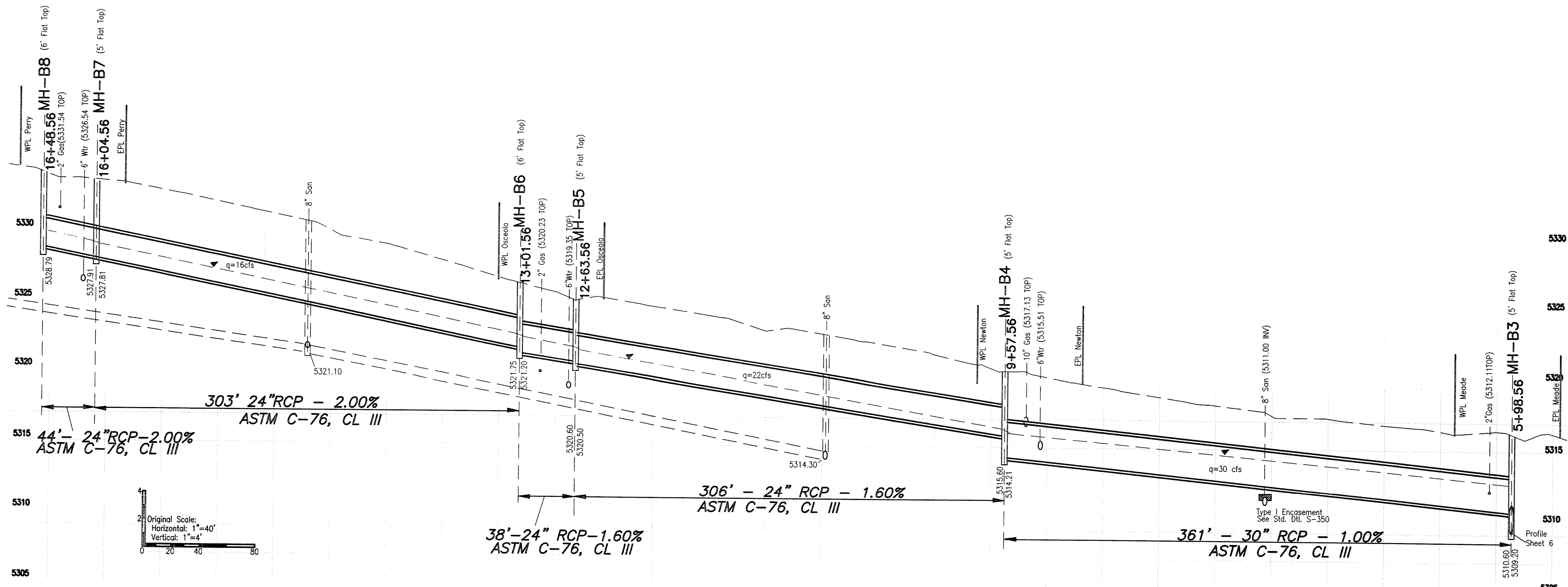


LINE A - PROFILE 1

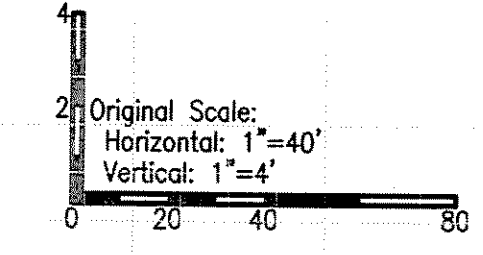
Bayaud: Newton to King
(Plan: Sheet 3)



Computer File Information		Bayaud & Hooker	
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As Built Date:		Date	
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Acad. Ver.:	R14		
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Units:	English		
City and County of Denver Department of Public Works Wastewater Management Division		Storm - Phase III	
2000 W. 3rd Ave. Denver, Colorado 80223		Project No.: W80-138C	
Telephone: (303) 446-3644 Fax: (303) 446-3647		Designed by: I.J.	
		Checked by: J.M.	
		Sheet Number 05	



LINE B - PROFILE 2



Cedar: Perry to Meade
(Plan: Sheet 4)

Computer File Information		City and County of Denver Department of Public Works Wastewater Management Division		Bayaud & Hooker Storm - Phase III	
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As Built Date:		Initials:		Checked by:	J.M.
Full Path:	\\Land Projects\ZP73698-554\dwg			Project No.:	W80-138C
Drawing File Name:	Base Map			Sheet Number	07
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