

GENERAL NOTES

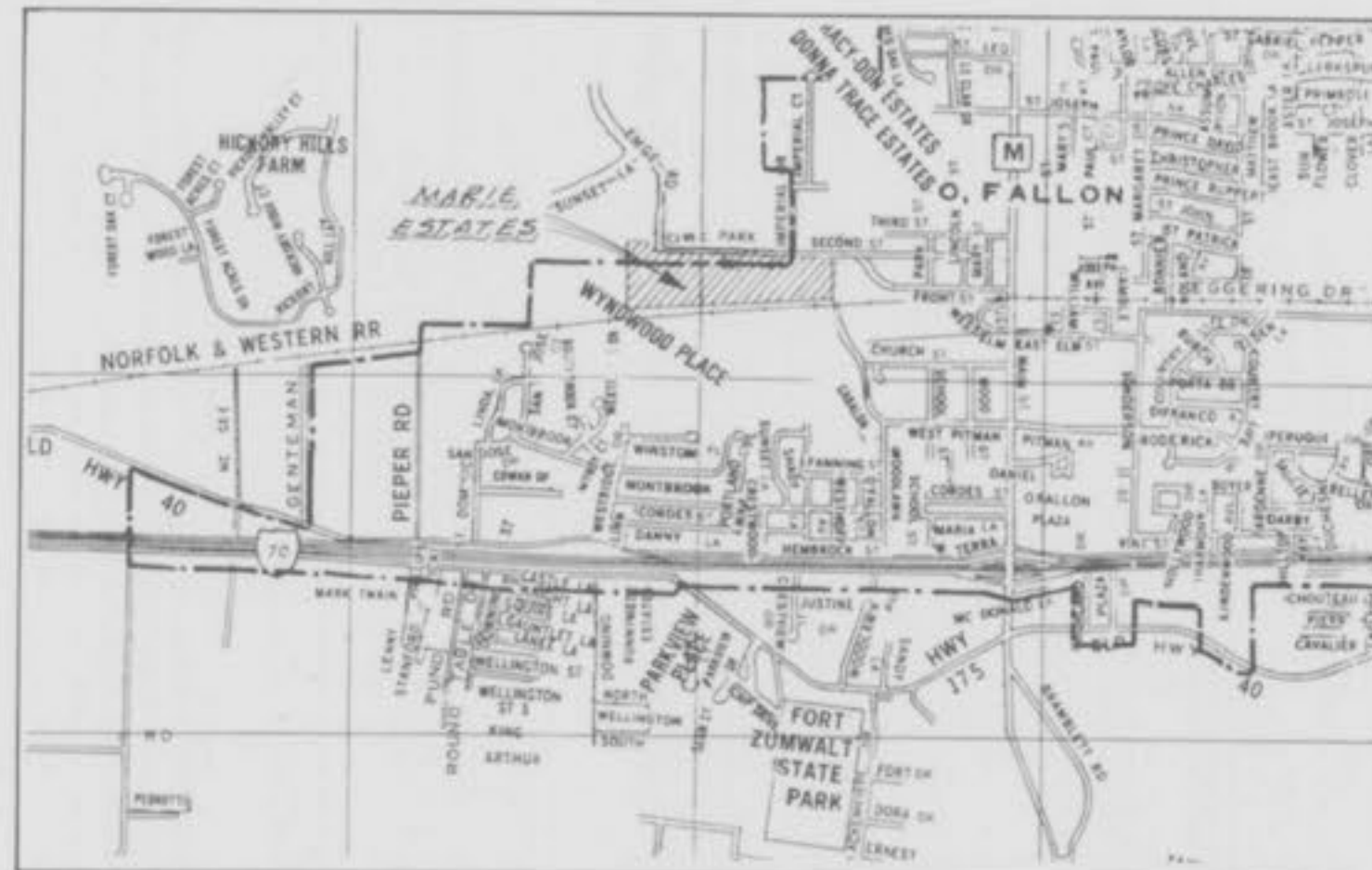
MARIE ESTATES CONDOMINIUM PHASE I

STORM & SANITARY SEWER AS-BUILTS

INDEX

- SHEET 1. COVER SHEET.
- SHEET 2. IMPROVEMENT PLAN.
- SHEET 3. STREET, SANITARY & SEWER PROFILES.
- SHEET 4. SEWER PROFILES.
- SHEET 5. DRAINAGE AREA MAP.
- SHEET 6. DETAILS.

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals.
2. Underground utilities have been plotted from available information and therefore their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to grading or construction of improvements.
3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR35.
4. Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14.
5. Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class III.
6. All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class III) unless noted otherwise on the plans.
7. Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M36, A.A.S.H.O.
8. All filled places under buildings, proposed storm and sanitary sewer lines and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (A.S.T.M. D-1557) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
9. All filled places in paved State, County or City roads (Highways) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (A.S.T.M. D-698) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
10. Trench backfills within the road right-of-way will be water jetted and granular backfill will be used under paved areas.
11. Easements shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
12. No area shall be cleared without permission of the developer.
13. All grade shall be within 0.2 feet more or less of those shown on the grading plan.
14. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
15. Barricades will consist of three standard 12" x 36" red and white striped scotchlite hazard markers mounted on two pound "U" channel sign post, with bottom of marker seven feet above pavement surface.
16. All manhole and catch basin tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
17. All standard street catch basins to have front of inlet 2 feet behind curb.
18. The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one half feet (2-1/2').
19. Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
20. All cast iron pipe for water mains shall conform to AWWA specification C-106 and/or C-108. The cast iron fittings shall conform to AWWA specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to AWWA specification C-111.
21. All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
22. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
23. All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
24. All PVC sanitary sewer pipe to be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of pipe.
25. All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way Markers shall be reset at the completion of grading.
26. All sanitary manhole tops shall be set 0.2' higher than the proposed ground except in pavement areas.
27. All sanitary manholes shall have a 31 mil. thick coat of coal tar pitch waterproofing.



SITE LOCATION MAP

BENCHMARK "G" IN 11-12-82 ON EAST CORNER HEADWALL ON CULVERT ON NORTH SIDE SECOND STREET IN FRONT OF SIGMUND AUTO BODY.

LEGEND

- CB. Catch basin
- D.C.B. Double catch basin
- Y.C.B. Yard catch basin
- 2G.C.B. Two grate catch basin
- M.H. Manhole
- FE. Flared end section
- EP. End pipe
- CP. Concrete pipe
- R.C.P. Reinforced concrete pipe
- C.M.P. Corrugated metal pipe
- C.I.P. Cast iron pipe
- P.V.C. Polyvinyl chloride pipe
- V.C.P. Vitrified clay pipe
- C.O. Clean out
- V.T. Vent trap
- Storm sewer
- Sanitary sewer
- Existing contour
- Proposed contour
- Street sign
- End of lateral
- Lateral
- Lot or building number
- Depth of rock
- Existing fence line
- Existing tree line
- STREET LIGHT

This is to certify that the as-constructed elevations, locations and distances shown hereon are correct and were taken in the field during July, 1984

[Signature]
Mo. Reg. L.S. # 1806

Flood Plain Elev. 504.0
USGS Datum

PROPERTY OF
CITY OF O'FALLON
BUILDING DEPARTMENT



Pickett
Ray
& **Silver**
INC.

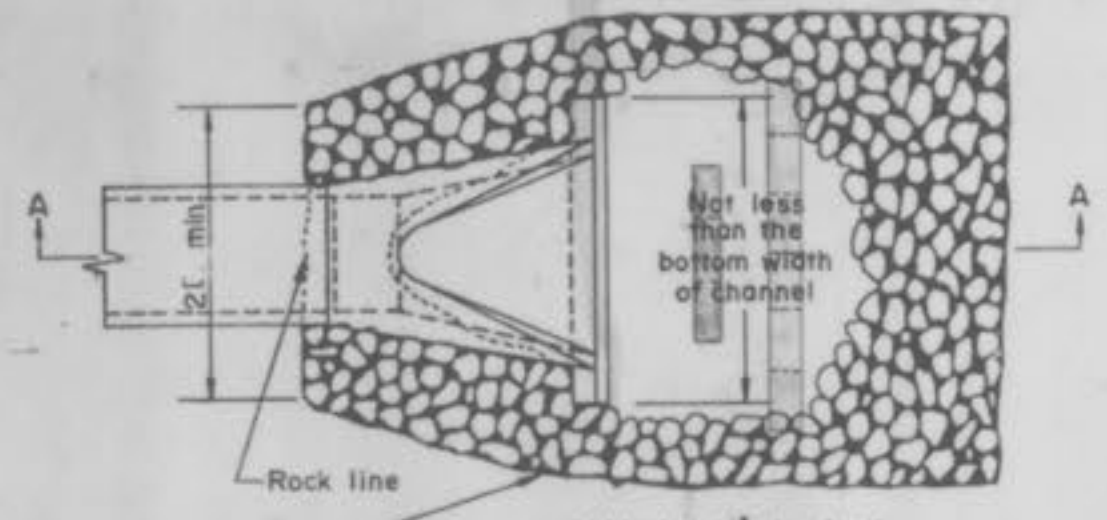
355 MID RIVERS DRIVE 278-1211
ST. PETERS, MO. 63376 441-1211

REV	DATE	DESCRIPTION	BY	CHKD
1	2-8-84		KG	JLR
2	4-5-84	Per City Reg.	JNE	
3	7-1-84	REV. PLAN	MC	
4	4-1-85	Phase II	J.L.O.	
5	4-24-85	Revisions	J.L.O.	
6	6-28-85	Revisions	J.L.O.	
7	9-24-85	ADDED BODIES 11 & 2	T.W.D.	
8	11-19-85	Revisions	T.W.D.	

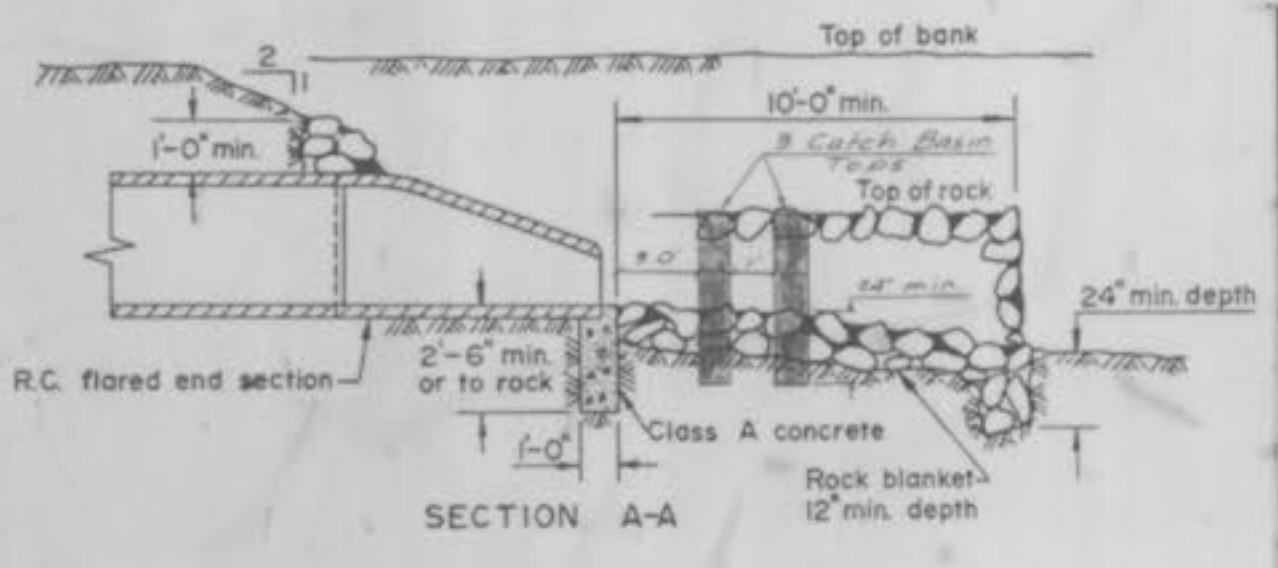
CLARK COLE THOMAS LOWERY BUILDERS INC.
116 TERRA LANG
O'FALLON, MISSOURI 63366

DRAWN BY J.L.L.R. DATE 1-24-84 52-015A
CHECKED BY DATE

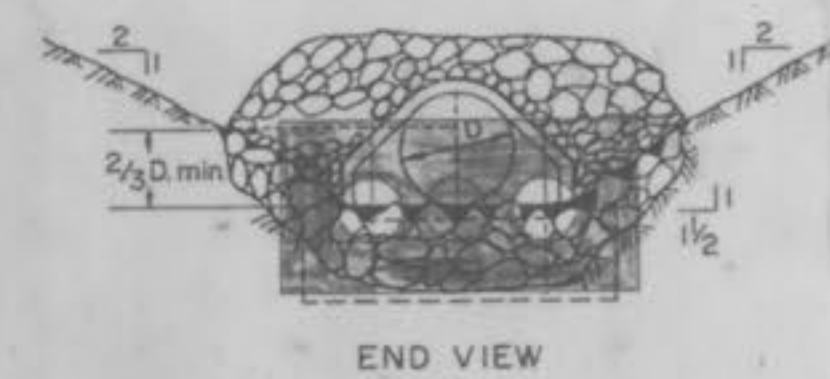
Jan. 1984
Rev. Feb. 8, 1984
7-3-84 A2 BUILTS (A,B)
9-24-84 PARALLEL LOT
8-4-84 STREET LIGHTS



PLAN VIEW



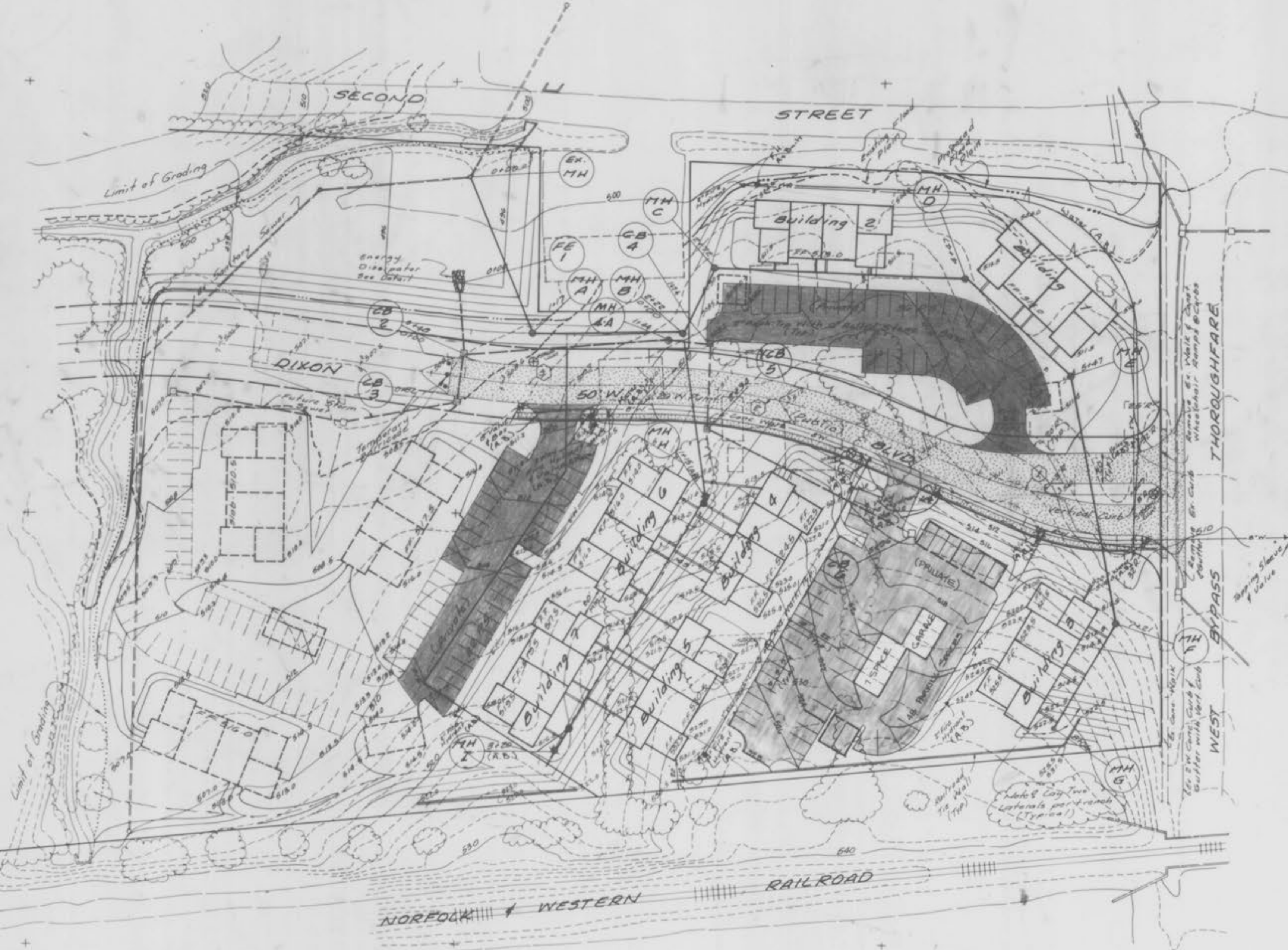
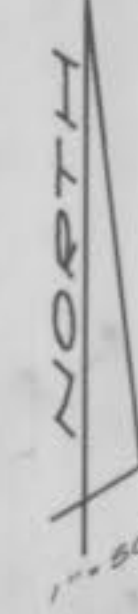
SECTION A-A



END VIEW

Note:
To be used at intake and discharge end of pipe, grade of rock blanket to be adjusted accordingly.

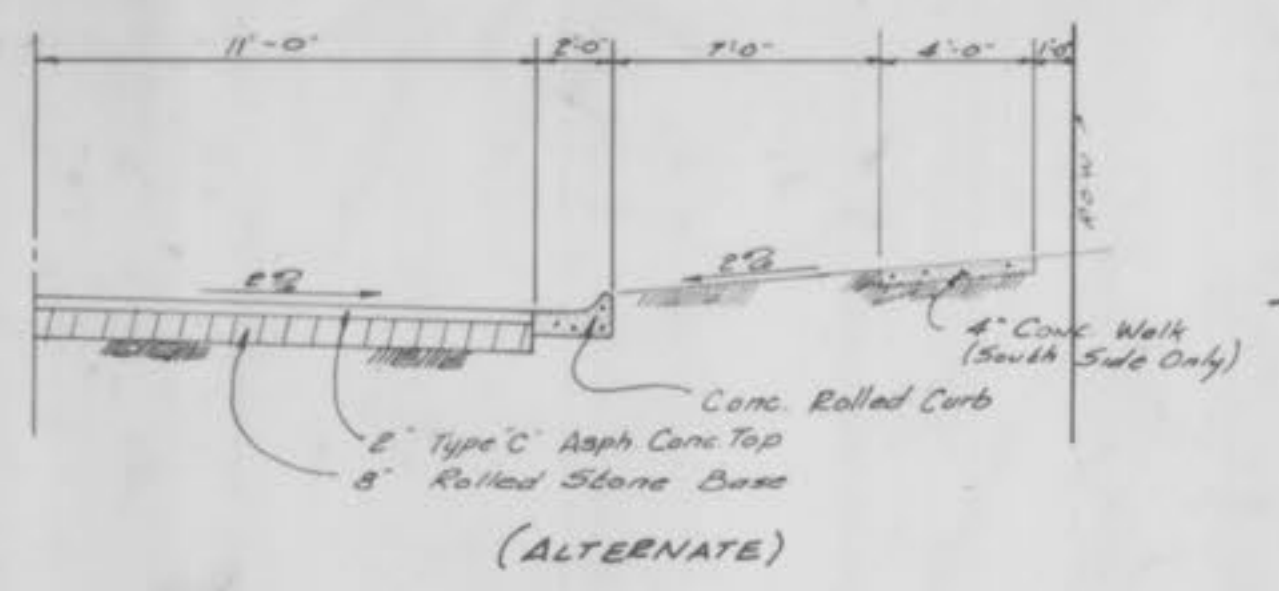
FLARED END SECTION WITH ENERGY DISSIPATOR



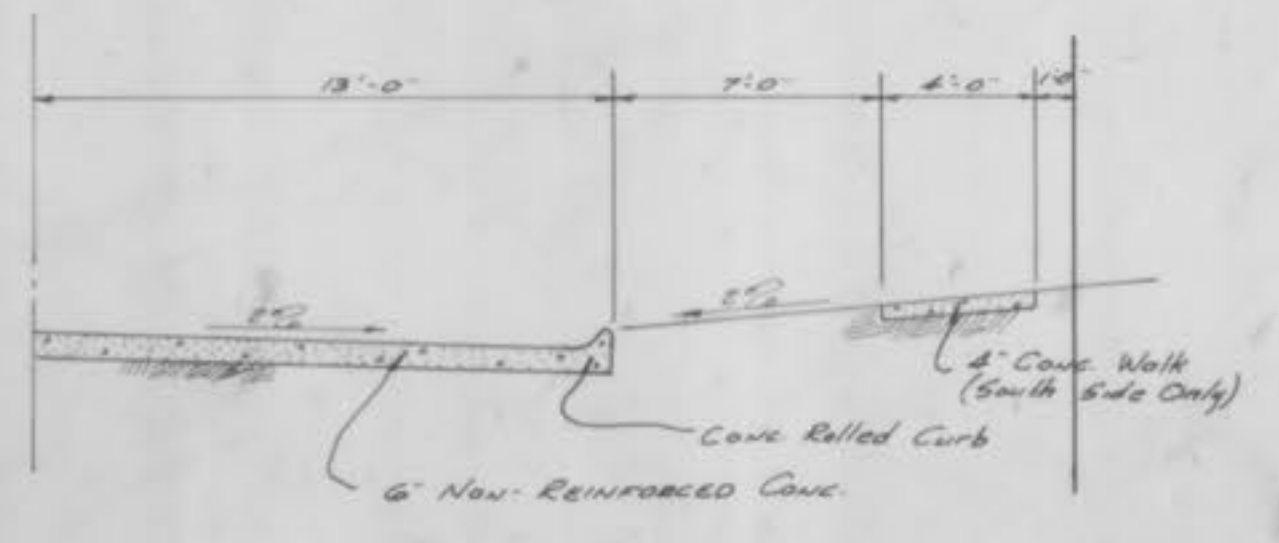
Curve Data

1	a = 28°11'10"
	R = 165.00'
	L = 60.00'
2	a = 28°18'07"
	R = 300.00'
	L = 188.00'
3	a = 0°51'05"
	R = 667.00'
	L = 70.00'

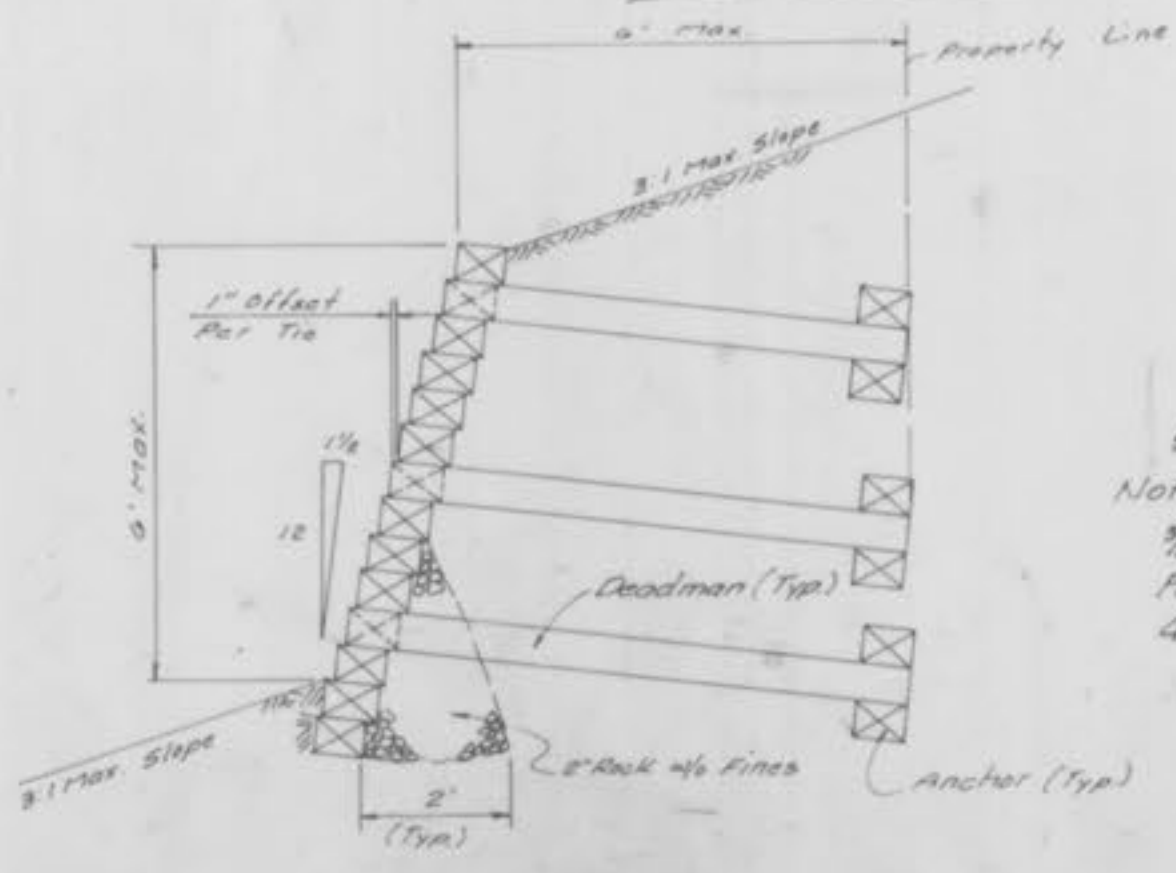
NOTE: PAVEMENT ON WEST BYPASS THOROUGHFARE IS TO BE BORED TO INSTALL 8" WATERLINE
● STREET LIGHTS



TYPICAL PAVEMENT 1/2 SECTION



TYPICAL PAVEMENT 1/2 SECTION



END VIEW DEADMAN ANCHORS

Notes:
3/8" x 10" Spikes To be Used To Fasten Ties Together. Minimum of 4 Spikes Per Tie.

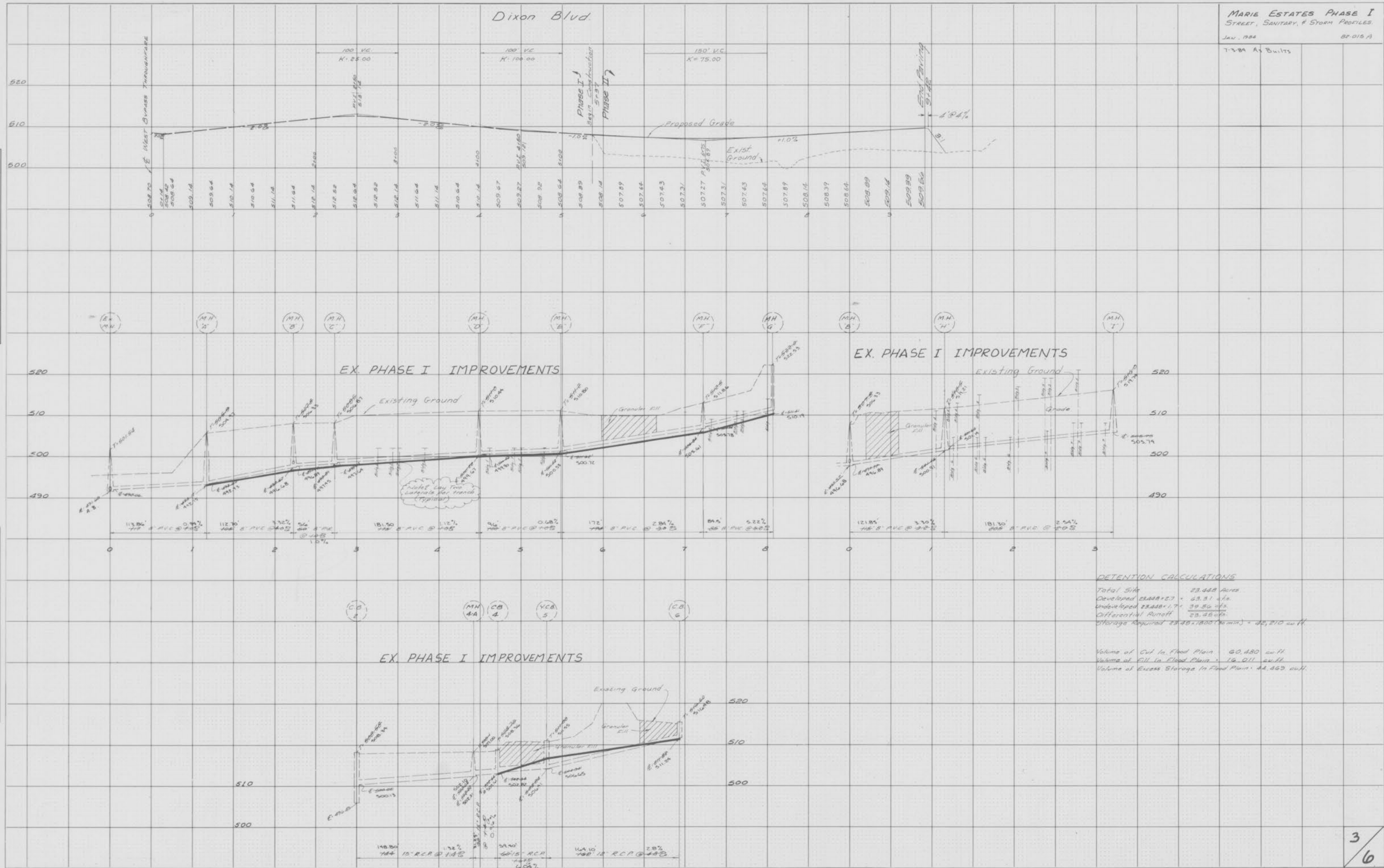
TYPICAL RAILROAD TIE RETAINING WALL

Bid Yardage 22,850 cu.yds.

PROPERTY OF
CITY OF FALLON
BUILDING DEPARTMENT

1 sheet of 3 sheets
2/10/84

1-3-84 As Built



DETENTION CALCULATIONS
 Total Site 23.428 Acres
 Developed 23.428 x .27 = 6.331 ac.
 Undeveloped 23.428 x .17 = 3.982 ac.
 Differential Runoff 23.428 ac.
 Storage Required 23.428 x .800 (6 min) = 38,210 cu ft
 Volume of C/I in Flood Plain 60,480 cu ft
 Volume of C/I in Flood Plain = 19,011 cu ft
 Volume of Excess Storage in Flood Plain = 41,469 cu ft

FINAL SURVEY
 NUMBERED
 PLOTTED
 NOTE BOOK
 TEMPLATE
 AREA
 CHECKED

ORIGINAL SURVEY
 NUMBERED
 PLOTTED
 NOTE BOOK
 TEMPLATE
 AREA
 CHECKED