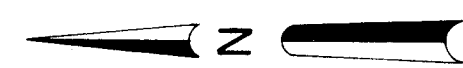


23rd ST. N.E.

S 83° 31' 30" E - 467.70'

50.00'

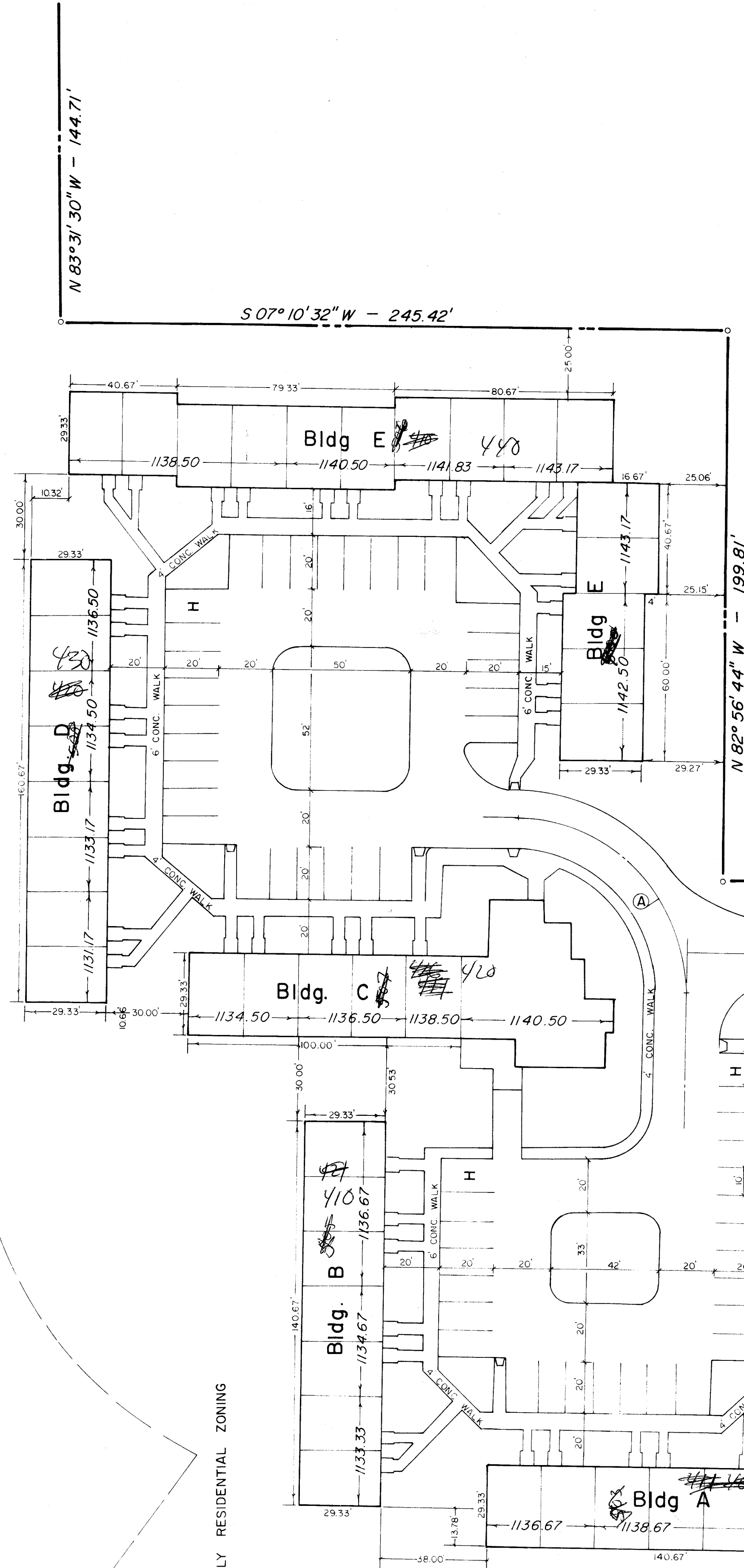
S 83° 31' 30" E - 676.70'



30 0 30 60
SCALE IN FEET

R-3 ONE FAMILY RESIDENTIAL ZONING

RW-1 MULTIPLE FAMILY RESIDENTIAL ZONING



A	B	C	D	E	F	G
$\Delta = 91^{\circ} 02' 46''$ R = 60.00' T = 61.11' C = 85.62' L = 95.34'	$\Delta = 26^{\circ} 51' 48''$ R = 300.00' T = 71.65' C = 139.37' L = 140.66'	$\Delta = 26^{\circ} 51' 48''$ R = 277.95' T = 66.38' C = 129.13' L = 130.32'	$\Delta = 26^{\circ} 51' 48''$ R = 251.95' T = 60.17' C = 117.05' L = 118.13'	$\Delta = 54^{\circ} 26' 40''$ R = 100.00' T = 51.44' C = 91.49' L = 95.02'	$\Delta = 54^{\circ} 26' 40''$ R = 73.05' T = 37.58' C = 66.83' L = 69.41'	$\Delta = 54^{\circ} 26' 40''$ R = 108.04' T = 55.58' C = 98.84' L = 102.66'

23rd ST. N.E.

S 07° 00' 56" W - 320.67'

50.00'
N 07° 00' 56" E

N 81° 46' 42" W - 615.89'

①
 $\Delta = 13^{\circ} 40' 36''$
R = 220.00'
L = 52.52'
C = 52.37'
C.B. = N 12° 31' 16" W

MASSILLON ELDERLY HOUSING
SITE GEOMETRIC PLAN
MASSILLON, OHIO

S.E. 636 Acc No 3271

COLONIAL PKWY. N.E. 50'

23rd ST. N.E.

BENCHMARK:
TOP OF EXISTING HEADWALL
AT NORTHWEST CORNER OF
OF OHIO WATER SERVICE CO. PROPERTY

- A. San. MH #1
Top = 1127.90 - Match Ground
Inv. = 1114.40 - Match Exist.
- B. San. MH #2
Top = 1127.50
Inv. = 1117.06
- C. San. MH #3
Top = 1127.00
Inv. = 1120.00
- D. San. MH #4
Top = 1137.75
Inv. = 1131.00
- E. San. MH #5
Top = 1142.33
Inv. = 1136.00
- F. San. MH #6
Top = 1136.00
Inv. = 1126.00
- G. San. MH #7
Top = 1134.00
Inv. = 1128.00
- H. San. MH #8
Top = 1140.00
Inv. = 1134.00

- J. Yard Drain #1
Top = 1140.75
Inv. = 1138.09 - 8"
- K. Yard Drain #2
Top = 1140.00
Inv. = 1137.75 - 8"
- L. Yard Drain #3
Top = 1138.00
Inv. = 1134.00 - 8"
- M. Yard Drain #4
Top = 1133.00
Inv. = 1130.00 - 8"
- N. Catch Basin #1
Top = 1141.50
Inv. = 1137.49 - 8" E.W.
Inv. = 1136.41 - 21" N
Inv. = 1136.66 - 18" S
- O. Catch Basin #2
Top = 1132.00
Inv. = 1127.50 - 21" S
Inv. = 1127.25 - 24" W
- P. Catch Basin #3
Top = 1133.50
Inv. = 1133.00 - 12"
- Q. Catch Basin #4
Top = 1127.00
Inv. = 1124.00 - 24" E., N.W.
Inv. = 1125.00 - 12" S
- R. Catch Basin #5 ODOT 2-2-A
Top = 1124.00
Window = 1123.50 - E
Inv. = 1115.50 - 6" E., W.

- S. Storm MH #1
Top = 1136.50
Inv. = 1128.00 - 12" W., N.
Inv. = 1128.33 - 8" S
- T. Storm MH #2
Top = 1129.00
Inv. = 1125.33 - 8"
- HW #1 ODOT HW-4B
Inv. = 1123.25 - 24"
- HW #2 ODOT HW-4B
Inv. = 1123.00 - 8"
- HW #3 ODOT HW-1
Inv. = 1117.50 - 6"
- HW #4 ODOT HW-4B
Inv. = 1090.00

OHIO WATER SERVICE CO.

PRO. DETENTION BASIN

TOP ELEV. = 1124.00 (10' MIN. TOP OF BANK)
MAX. WATER ELEV. = 1123.50 - EMERGENCY OVERFLOW
MIN. BOTTOM ELEV. = 1117.50 - AT HW #3
BANKS 4:1 TYP. (3:1 ON WEST BACKSLOPE)
EMBANKMENT COMPACTION PER ODOT ITEM 203
SEED & MULCH BANKS & BOTTOM PER ODOT ITEM 659

PRO. SILT FENCE
SEE DETAIL

SEED & MULCH
DISTURBED AREA
PER ODOT ITEM 659
38% CROWN VETCH
67% PERENNIAL RYEGRASS

EMERGENCY
OVERFLOW
SEE DETAIL
THIS PAGE

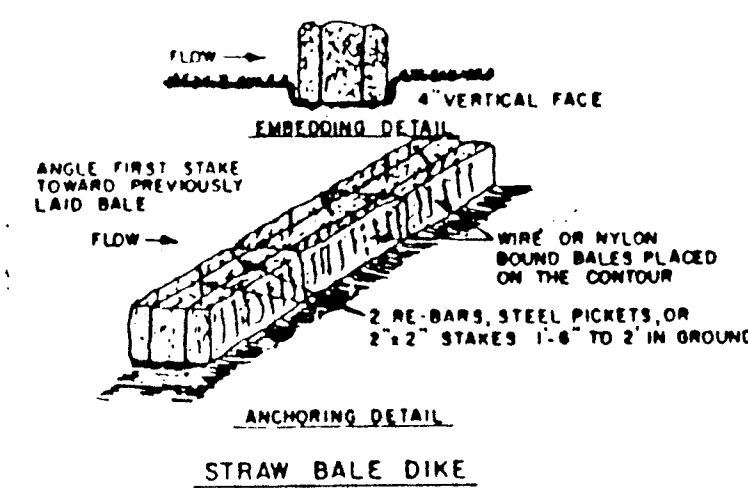
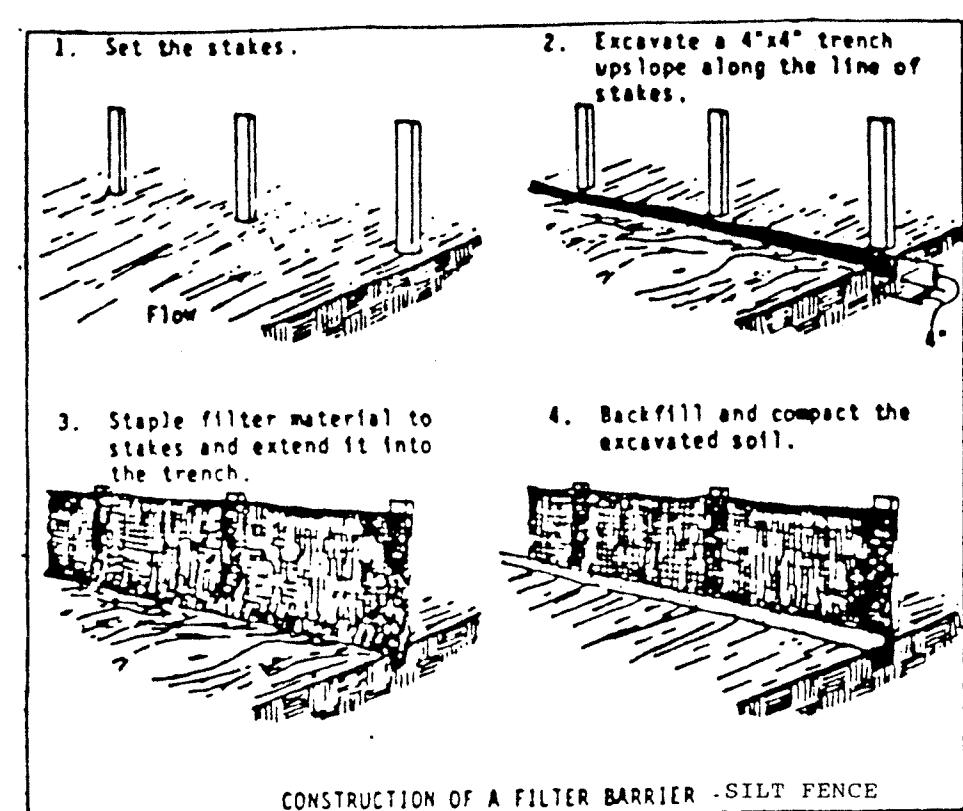
DETAIL EMERGENCY OVERFLOW
SCALE: 1" = 5'

MASSILLON ELDERLY HOUSING
SITE GRADING, DRAINAGE & UTILITY PLAN
MASSILLON, OHIO

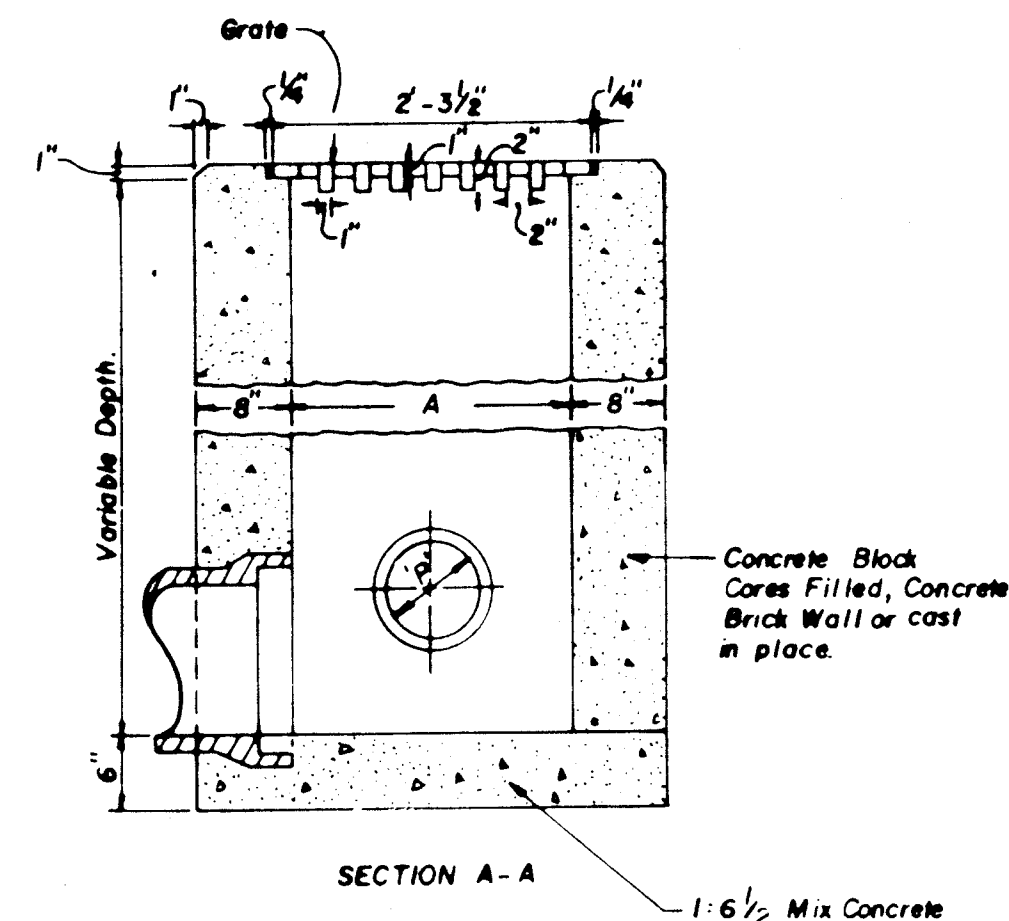
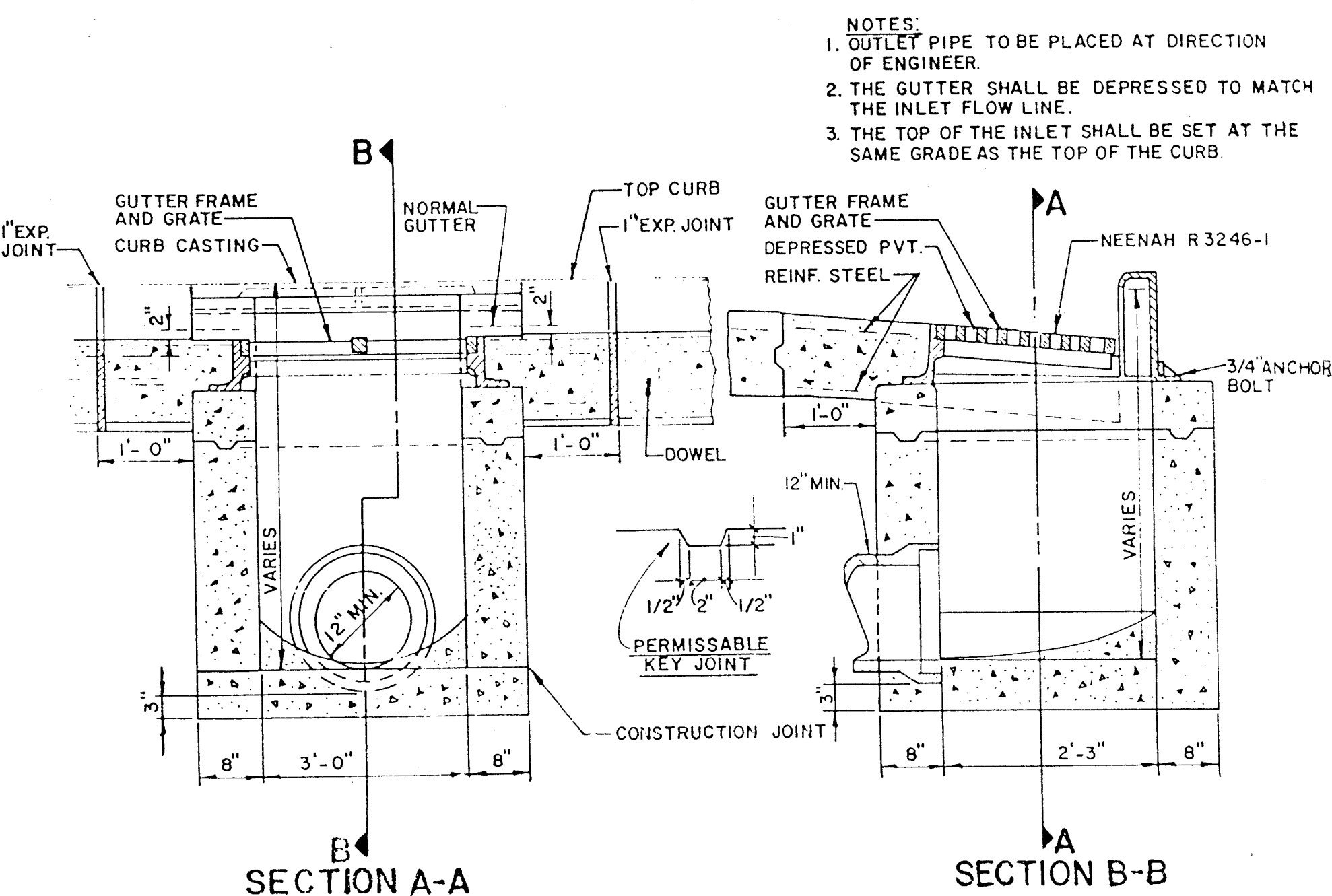
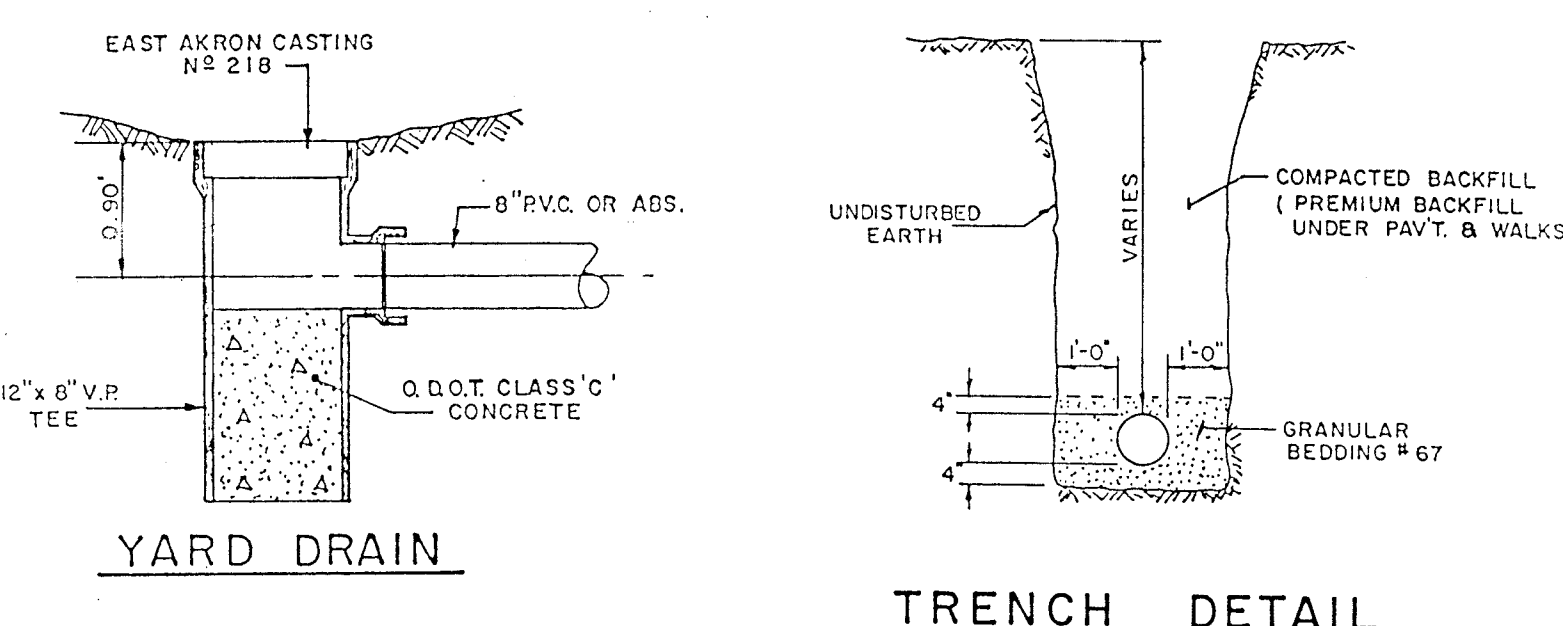
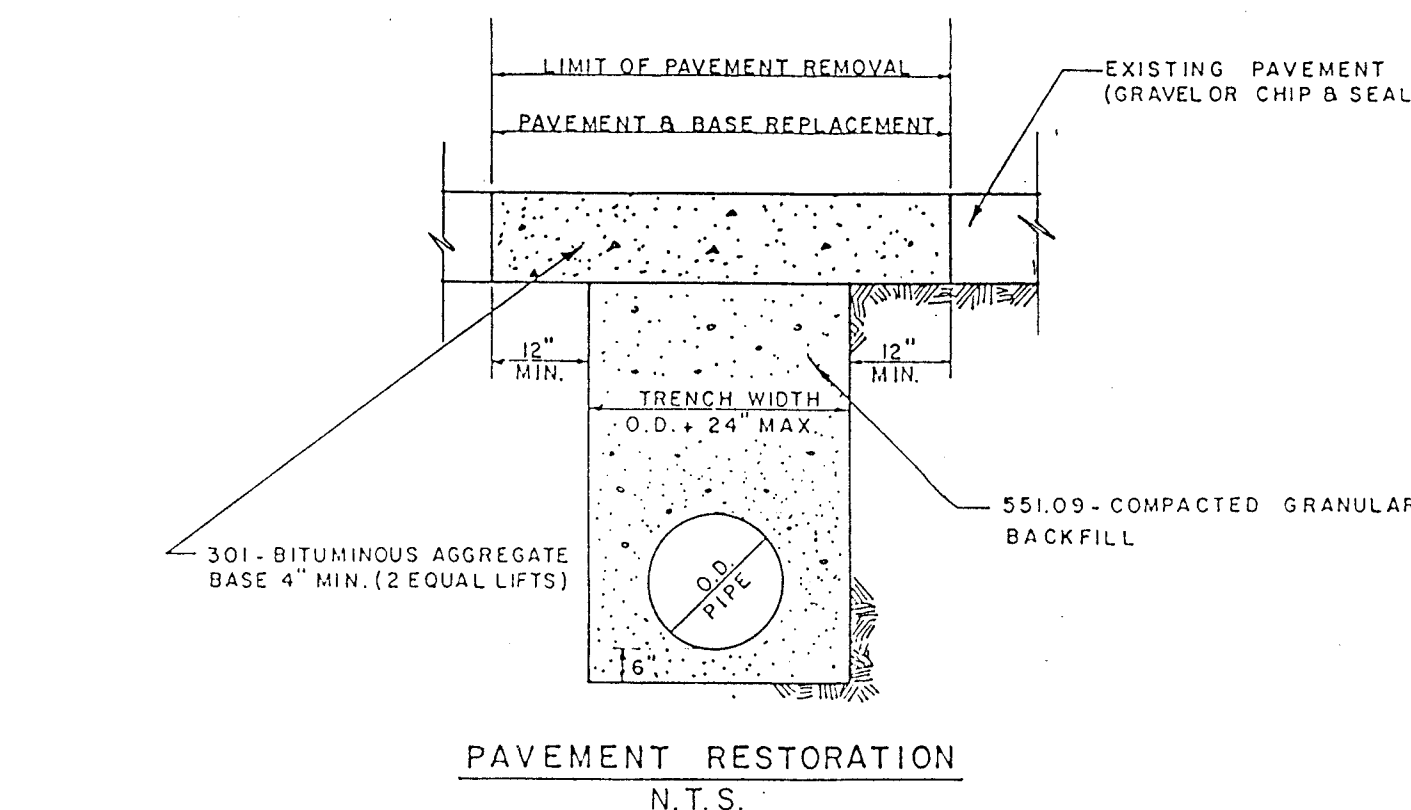
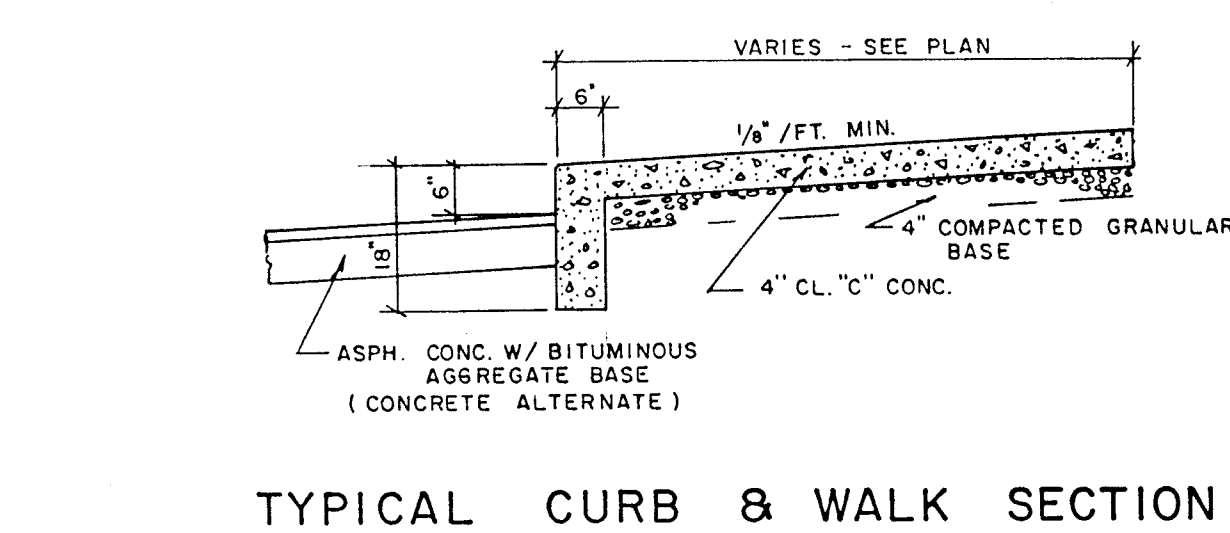
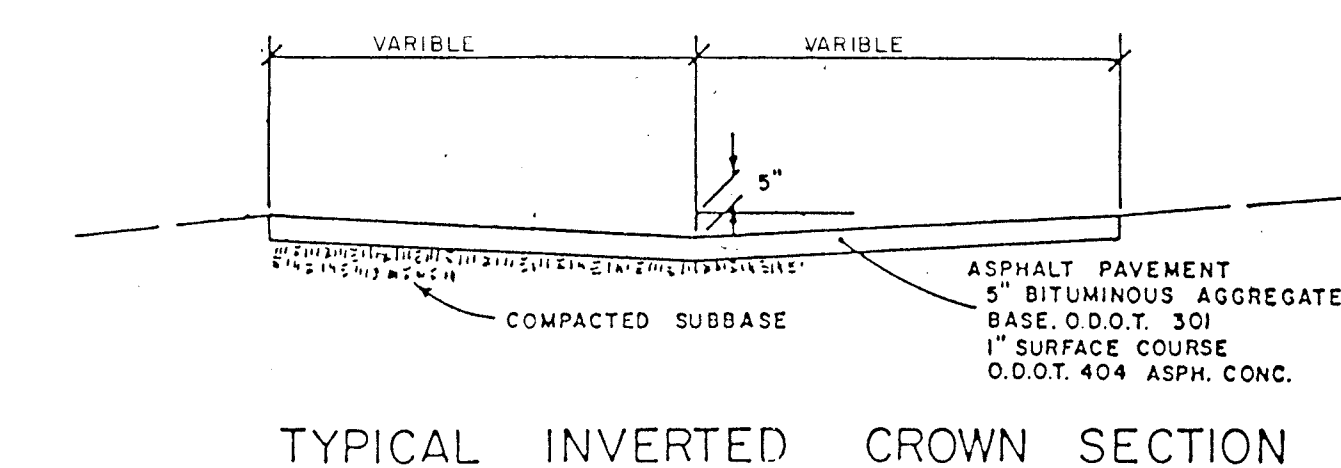
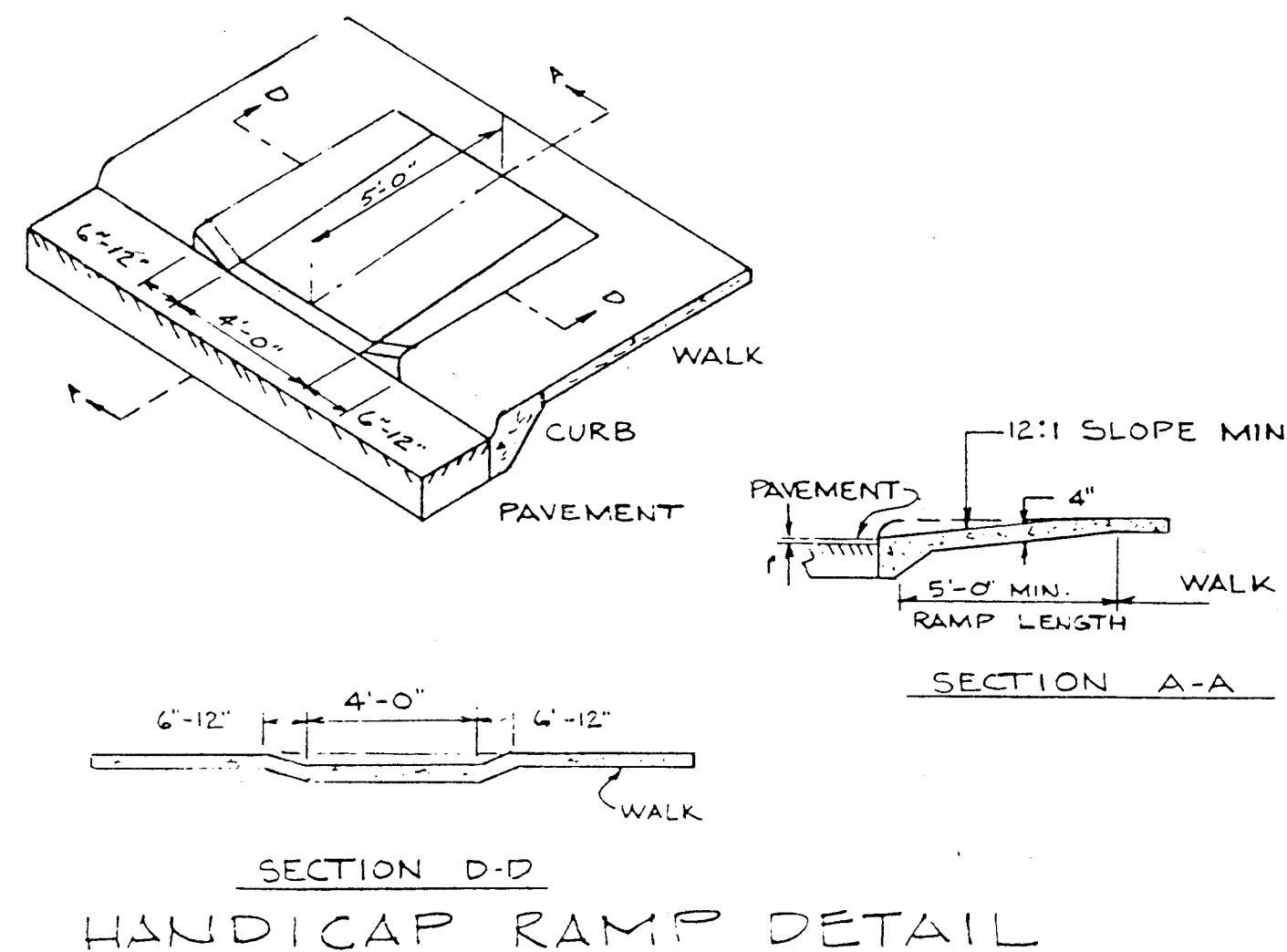
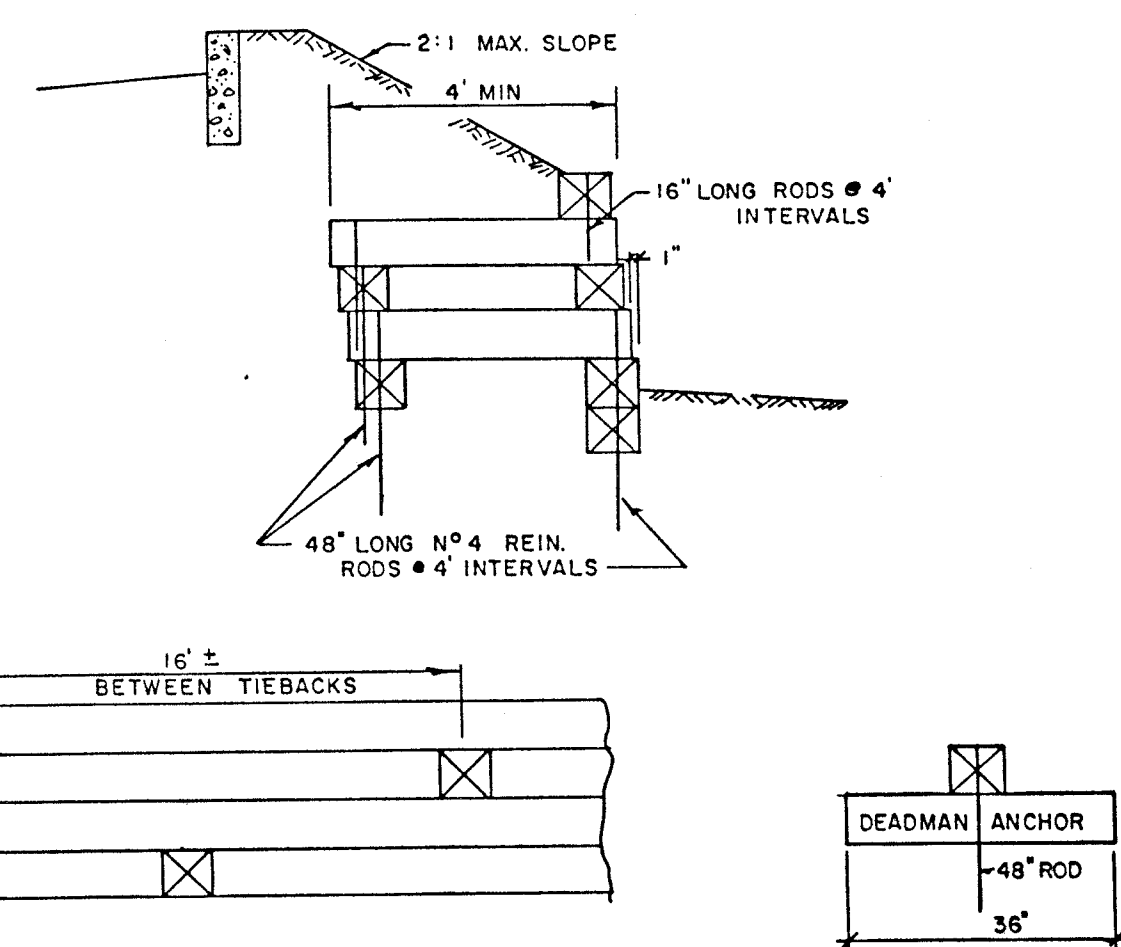
S.E. 636 A.C. 116 3271

EROSION CONTROL GENERAL NOTES

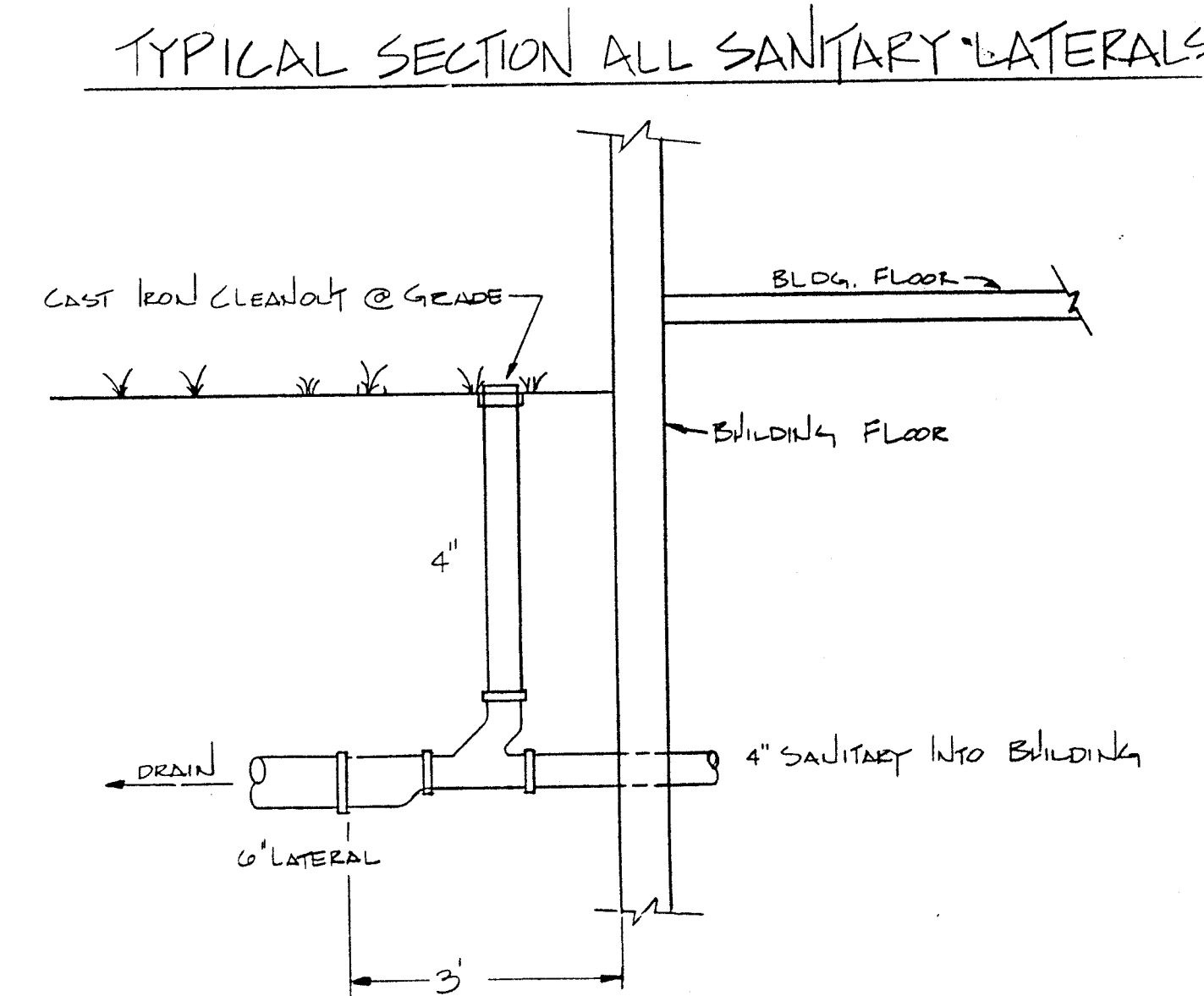
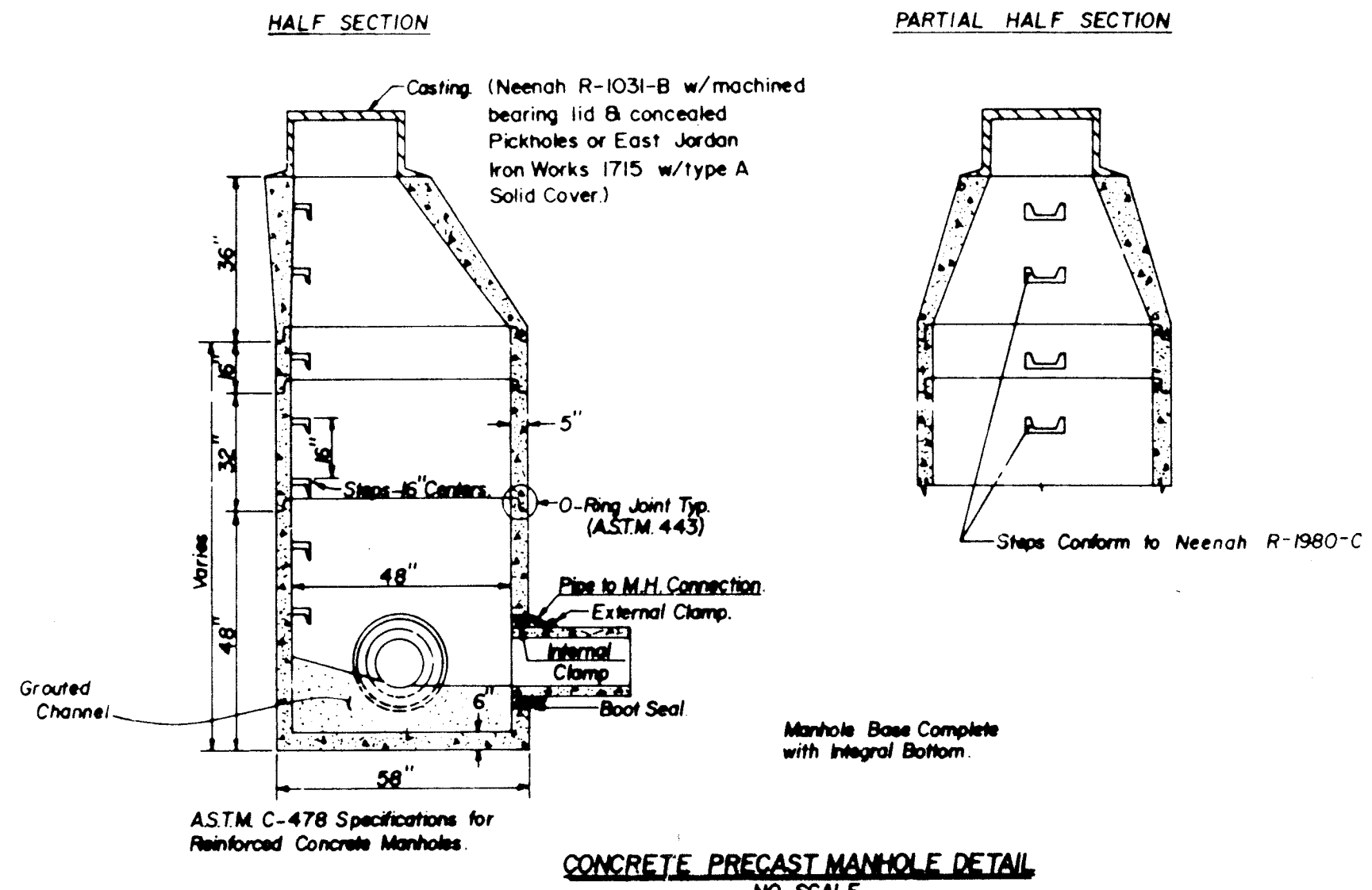
1. The erosion control measures described herein are typical. The contractor shall use this plan as a guide to control erosion. In the event of adverse weather conditions, etc., additional measures should be taken to establish and maintain protective vegetation.
2. Continuous maintenance will be required as necessary until permanent, stable vegetative cover has been established and erosion has been controlled. This includes but is not limited to reseeding, mulching, earth filling, etc.
3. Disturbed areas shall be kept to a minimum w/r/t areas exposed and time of exposure. Replace any existing topsoil.
4. Temporary erosion control shall conform to ODOT Item 207, Temporary Soil Erosion and Sediment Control as typified on the plan.
5. The establishment of permanent ground cover shall conform to ODOT Item 659, Seeding and Mulching.
6. If small rills or gullies develop, temporary diversions of earth fill or straw bales should be installed until satisfactory seeding is established.
7. To assist in erosion control, all trees and vegetation outside of graded areas shall remain.
8. Temporary straw bale sediment control dikes shall be per detail on plan. Silt fence fabric shall be Exxon GTF-1005 or approved equal.
9. Adjacent roads shall be kept free of dirt & debris at all times.



- CONSTRUCTION SPECIFICATIONS
1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUS LAID BALE TO FORCE BALES TOGETHER.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE DEVELOPER.
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

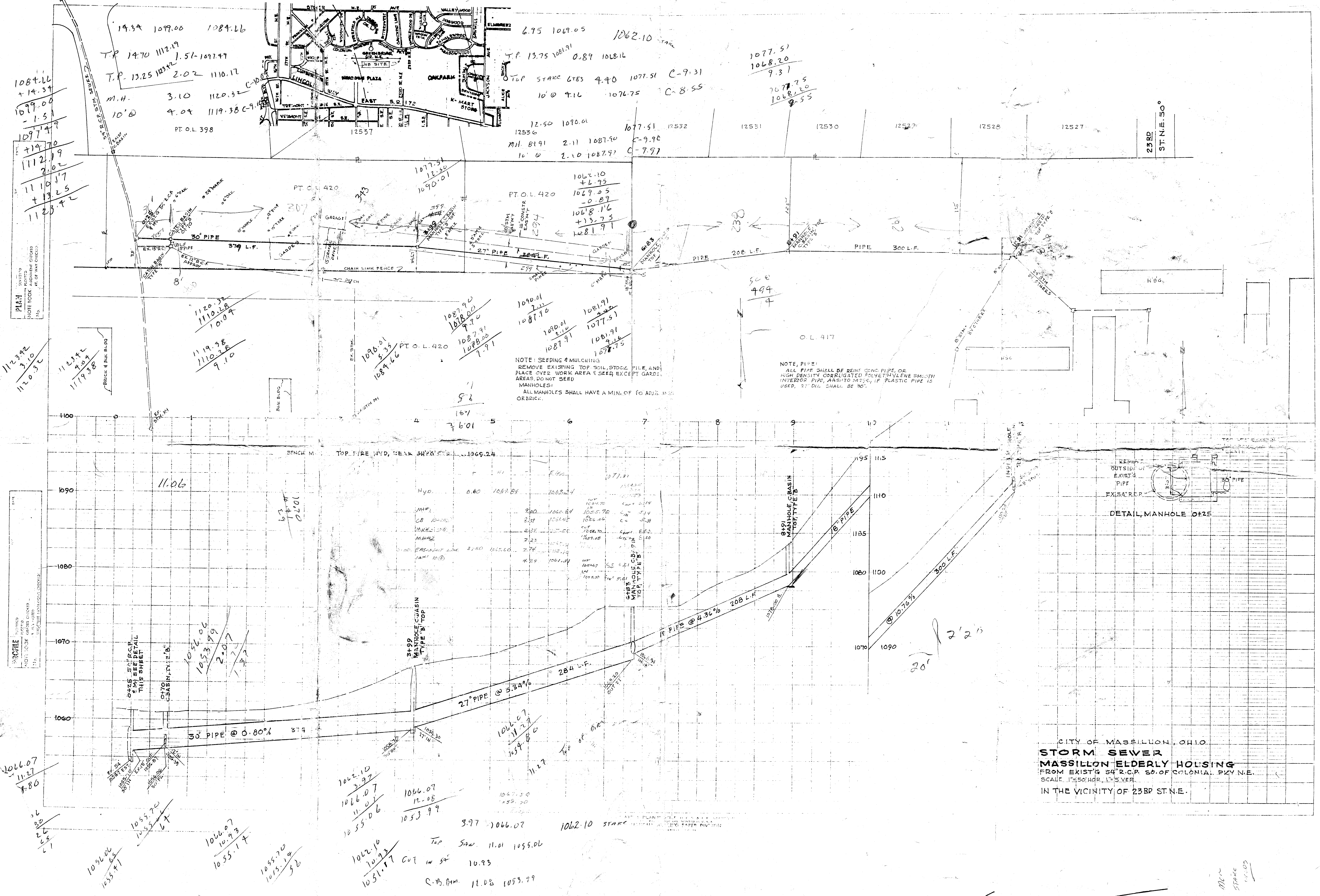


PIPE "P" SIZE	A	NEENAH CASTING OR EQUAL
12" - 18"	2' x 2'	R-4850
21" - 30"	2' x 3'	R-4850



GENERAL NOTES

1. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY A DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THIS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
2. THE CONTRACTOR OR OWNER MUST NOTIFY THE CONSTRUCTION DIVISION, BUREAU OF ENGINEERING, CITY OF MASSILLON FOR MATERIAL AND CONSTRUCTION INSPECTION THREE (3) WORKING DAYS PRIOR TO THE TIME WORK IS STARTED IN THE STREET RIGHT-OF-WAY OR 8" SANITARY SEWER INSTALLATION.
3. THE CONTRACTOR MUST CONTACT THE UTILITIES PROTECTION SERVICES AT (1-800-362-2764) 48 HOURS BEFORE ANY UNDERGROUND WORK IS BEGUN.
4. SANITARY SEWER PIPE TO BE P.V.C. PIPE (SDR 35) MEETING ASTM SPECIFICATION D-3034 WITH GASKET TYPE COMPRESSION JOINTS (D-3212).
5. ALL SANITARY MANHOLES SHALL HAVE ALL INVERTS CHanneled TO CARRY FLOW. NO LATERAL SHALL BE CONSTRUCTED WHICH DISCHARGES ONTO THE BENCH IN THE SANITARY SEWER MANHOLE.
6. ALL SANITARY LATERALS SHALL BE CONSTRUCTED ON NO LESS THAN 1% GRADE.
7. ALL TRENCH BACKFILL UNDER PAVEMENT SHALL BE GRANULAR AND TAMPED AS DIRECTED BY THE ENGINEER. AREAS OUTSIDE PAVEMENT SHALL CONFORM TO (O.D.O.T. 603).
8. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
9. PRECAST CONCRETE MANHOLES TO HAVE PRECAST VINYL INSERTS FOR ACCEPTING PIPE. ALL SANITARY MANHOLES TO BE PRECAST.
10. ALL MANHOLE TOPS ARE TO BE FLUSH WITH FINISHED GRADE.
11. STORM SEWER CONSTRUCTION AND PAVEMENT INSTALLATION SHALL BE INSTALLED PER STATE OF OHIO DEPARTMENT OF TRANSPORTATION (O.D.O.T.) CONSTRUCTION AND MATERIAL SPECIFICATIONS, 1991 EDITION PER SECTION 600 AND ITEM 452 RESPECTIVELY.
12. STORM SEWER PIPE TO BE: Size 6" thru 10" a) PVC (ASTM D-3034) (SDR 35) or ABS (ASTM D 2751 & D 2680). b) Size 12" thru 24" - CL.III reinforced concrete pipe (ASTM C-76).
13. ALL PAVED AREA DISTURBED BY THIS CONSTRUCTION SHALL BE RE-STORED PER DETAIL SHOWN ON THE PLAN AND ALL OTHER TO ORIGINAL CONDITION.
14. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE ERECTED AND MAINTAINED IN COMPLIANCE WITH THE STATE OF OHIO "MANUAL OF UNIFORM CONTROL DEVICES" ACCORDING TO SIZE, SHAPE, COLOR AND REFLECTORIZATION.
15. AREAS DISTURBED BY CONSTRUCTION TO BE TOPSOILED AND SEEDDED.



COLONIAL PKWY. N.E. 50'

23rd ST. N.E.

BENCHMARK:
TOP OF EXISTING HEADWALL
AT NORTHWEST CORNER OF
OF OHIO WATER SERVICE CO. PROPERTY

- A. San. MH #1
Top = 1127.90 - Match Ground
Inv. = 1114.40 - Match Exist.
- B. San. MH #2
Top = 1127.50
Inv. = 1117.06
- C. San. MH #3
Top = 1127.00
Inv. = 1120.00
- D. San. MH #4
Top = 1137.75
Inv. = 1131.00
- E. San. MH #5
Top = 1142.33
Inv. = 1136.00
- F. San. MH #6
Top = 1136.00
Inv. = 1126.00
- G. San. MH #7
Top = 1134.00
Inv. = 1128.00
- H. San. MH #8
Top = 1140.00
Inv. = 1134.00

- J. Yard Drain #1
Top = 1140.75
Inv. = 1138.09 8"
- K. Yard Drain #2
Top = 1140.00
Inv. = 1137.75 8"
- L. Yard Drain #3
Top = 1138.00
Inv. = 1134.00 8"
- M. Yard Drain #4
Top = 1133.00
Inv. = 1130.00 8"
- N. Catch Basin #1
Top = 1141.00
Inv. = 1137.49 8" E., W.
Inv. = 1136.68 12" N
Inv. = 1136.68 18" S
- O. Catch Basin #2
Top = 1132.00
Inv. = 1127.50 12" S
Inv. = 1127.25 15" W
- P. Catch Basin #3
Top = 1133.00
Inv. = 1133.00 12"
- Q. Catch Basin #4
Top = 1127.00
Inv. = 1124.00 15" E, N.W
Inv. = 1125.00 12" S

- S. Storm MH #1
Top = 1136.50
Inv. = 1128.00 - 12" W., N.
Inv. = 1128.33 - 8" S
- T. Catch Basin No. 5
Top = 1128.00
Inv. = 1125.33 - 8"

REPLACE TOP-SOIL, THEN SEED & MULCH
W/MIXTURE OF
20% ACRE CREEPING RED FESCUE
20% ACRE TALL FESCUE

ANTI-FREEZE WALL HYDRANT
TO BE PROTECTED W/VACUUM
BREAKERS, C.T.P. FOR ALL
WALL HYDRANTS.

EXISTING
HEADWALL
TOP = 1149.31
INV. = 1146.11

OHIO WATER SERVICE CO.

THE CONTRACTOR MUST CONTACT THE
UTILITIES PROTECTION SERVICES AT
(1-800-362-2764) 48 HOURS BEFORE
ANY UNDERGROUND WORK IS BEGUN.

NOTE: WOODED BUFFER
DO NOT DISTURB

STRAW BALE SEDIMENT
CONTROL DIKE
SEE DETAIL

MASSILLON STA. 11+51
PROPOSED MH/CATCH BASIN
(BY OTHERS)
TOP = 1118.51
INV. = 1110.28 - 18" W.
INV. = 1110.53 - PRO. 15" S.H.
INV. = 1111.11 - PRO. 6" S.W.

PRO. SILT FENCE
SEE DETAIL

AS BUILT BY BILL PAPPAS

ISSUED
AT 23 1951
HECKY GROUP

REVISED 2-16-9
REVISED 5-17-9

MASSILLON EL HOUSIN
SITE GRADING, DRAIN UTILITY

MASSILL

SE 634 Ac No 3271

