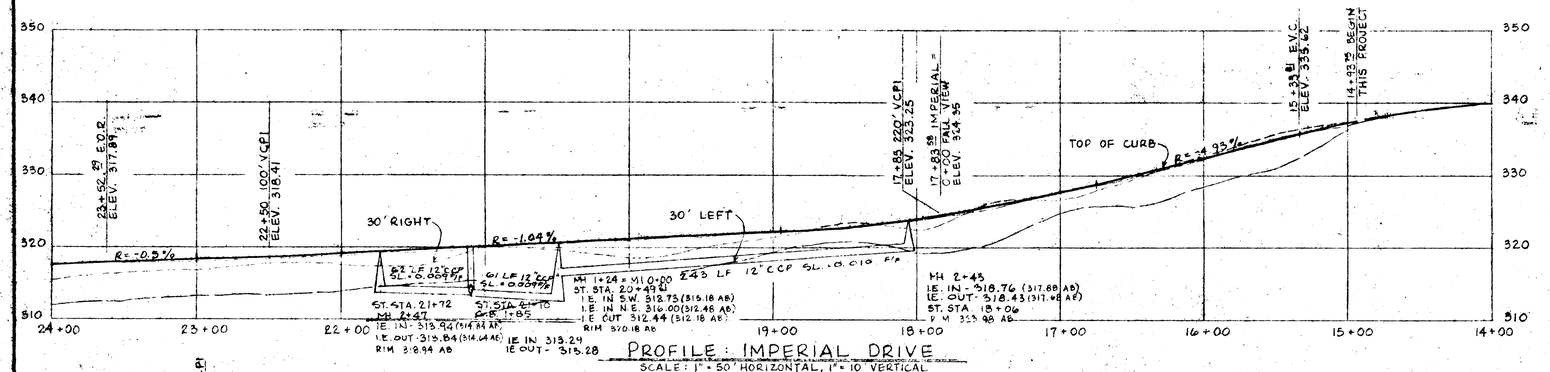
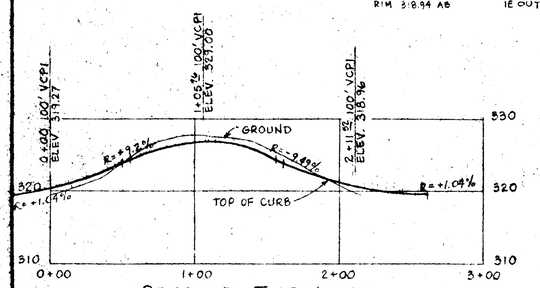


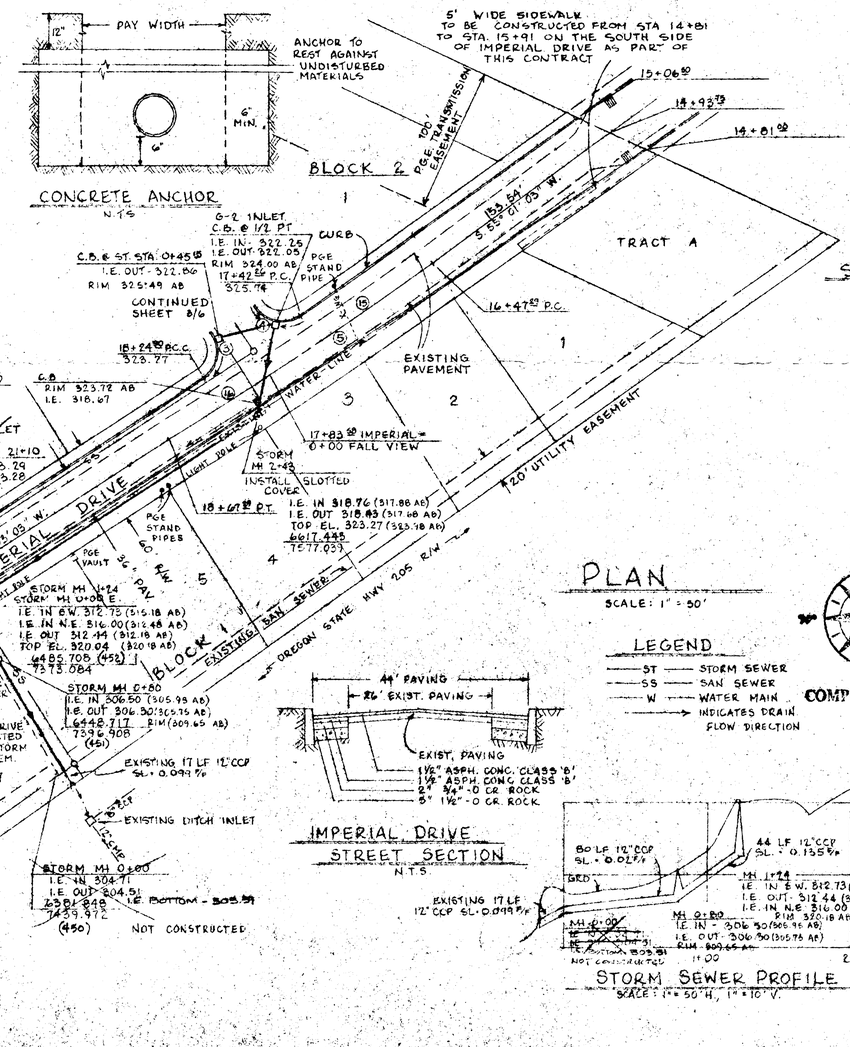
PROFILE: IMPERIAL DRIVE

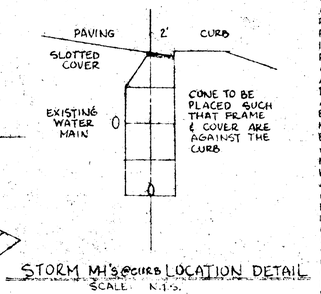
SCALE: 1" = 50' HORIZONTAL, 1" = 10' VERTICAL



PROFILE: TURNOUT

SCALE: 1" = 50' H, 1" = 10' V





STORM MH'S @ CURB LOCATION DETAIL

SCALE: N.T.S.

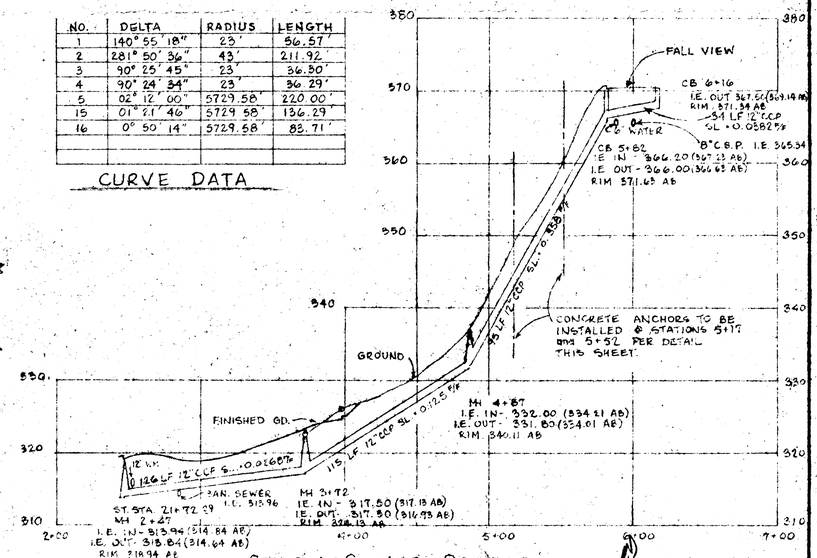
NOTES

ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT, O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATIONS. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION TWO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, A.P.W.A. OREGON CHAPTER. MATERIALS IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED A FIRM FOUNDATION AND SHALL BE REPLACED WITH 2 1/4 INCHES MINUS CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE LOWEST MOISTURE CONTENT AT WHICH A HANDFUL OF THE SOIL CAN BE MOLDED BY A FIRM CLOSING OF THE HAND. (95% COMPACTION). CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADING IS COMPLETED AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR INSPECTION OF THE WORK. ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED. ASPHALT CONCRETE PAVEMENT TO BE CLASS 'C'. MIX TO BE DESIGNED FROM A JOB MIX FORMULA APPROVED BY THE O.S.H.D. FOR MATERIALS USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT. ASPHALT CONCRETE IS TO BE PUT ON IN TWO LIFTS AND COMPACTED TO 1½ INCH PER LIFT. CONCRETE PIPE SHALL BE A.S.T.M. C14 CLASS 2 NONREINFORCED CONCRETE PIPE. PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIVISION III, SECTION 61-3.03 B2 AND 61-3.05. COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.D. T-99 IN ACCORDANCE WITH A.P.W.A. DIVISION III, SECTION 61-3.06. WATER SETTLEMENT MAY BE ALLOWED AT OPTION OF CITY ENGINEER AT TIME OF CONSTRUCTION. TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL WITH COMPACTION TO 85% MAXIMUM DENSITY. BEDDING TO BE CLASS 'B'. CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADING IS COMPLETED AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR INSPECTION OF THE WORK. FAILURE TO DO SO WILL MAKE ANY SUBGRADE FAILURE OR DRAINAGE PROBLEMS THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR TO HAVE EXISTING WATER MAIN LOCATED IN IMPERIAL DRIVE BY CITY BEFORE STARTING ANY ROAD OR STORM SEWER CONSTRUCTION. ANY CUTS MADE IN EXISTING PAVING ACROSS OR ALONG IMPERIAL DRIVE SHALL BE DONE BY SAW AND SHALL BE PATCHED. THESE AREAS ARE TO BE APPROVED BY THE CITY ENGINEER. ANY DAMAGE TO THE EXISTING PAVING AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE CITY STANDARDS. THE EXISTING PAVING IN IMPERIAL DRIVE IS TO BE MAINTAINED AND HAVE A 1½ INCH ASPHALTIC CONCRETE OVERLAY PLACED ON IT AT THE TIME THE FINAL PAVING LIFT IS PLACED ON THE ENTIRE PROJECT. A LIBERAL TACK COAT SHALL BE PLACED OVER THE ENTIRE EXISTING PAVING AREA PRIOR TO PUTTING DOWN THE 1½ INCH PAVING OVERLAY ON IMPERIAL DRIVE. SEE DETAIL THIS SHEET.

NO.	DELTA	RADIUS	LENGTH
1	140° 55' 18"	23'	56.57
2	281° 50' 36"	43'	211.92
3	90° 25' 45"	23'	36.30
4	90° 24' 34"	23'	36.29'
5	02° 12' 00"	5729.58'	220.00'
15	01° 21' 46"	5729.58'	136.29'
16	0° 50' 14"	5729.58'	83.71'

CURVE DATA



STORM SEWER PROFILE

SCALE: 1" = 50' HOR., 1" = 10' VERT.

recvd 1/7/80

EXPIRES: 12/31/80 REGISTERED PROFESSIONAL ENGINEER OREGON H. CRAIG WESTON

IMPERIAL OAKS NO. 2

"AS BUILT"

ROAD AND STORM SEWER IMPROVEMENTS

DATE	NO	REVISION
11-25-80	4	ADDED AS BUILT MH, CB, & SL
6-27-80	3	REVISED SAN LINE - IMPERIAL DR.
4-10-80	2	ADDED TOP MH ELEV.'S
2-28-80	1	REMOVED APPROVAL STICKER

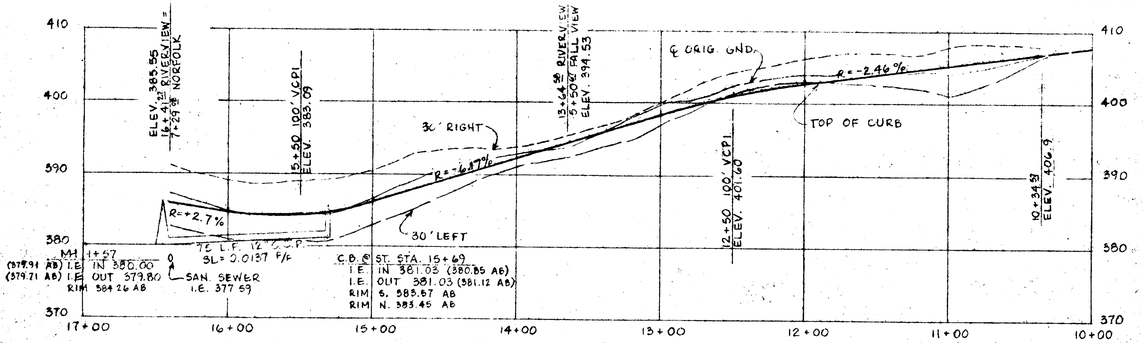
DRAWN — CHECKED — APPROVED —
SCALE AS SHOWN DATE DEC. 1979
FILE 79-1562-1107

COMPASS CORPORATION
ENGINEERING · SURVEYING · PLANNING
6664 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

JOHN SCHENK
543 THIRD STREET, SUITE 9-C
LAKE OSWEGO, OREGON

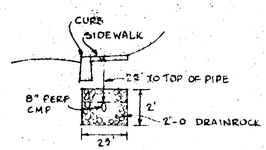
IMPERIAL OAKS III

Willamette Print & Blueprint Company



PROFILE: RIVERVIEW DRIVE

SCALE: 1" = 50' HORIZONTAL, 1" = 10' VERTICAL

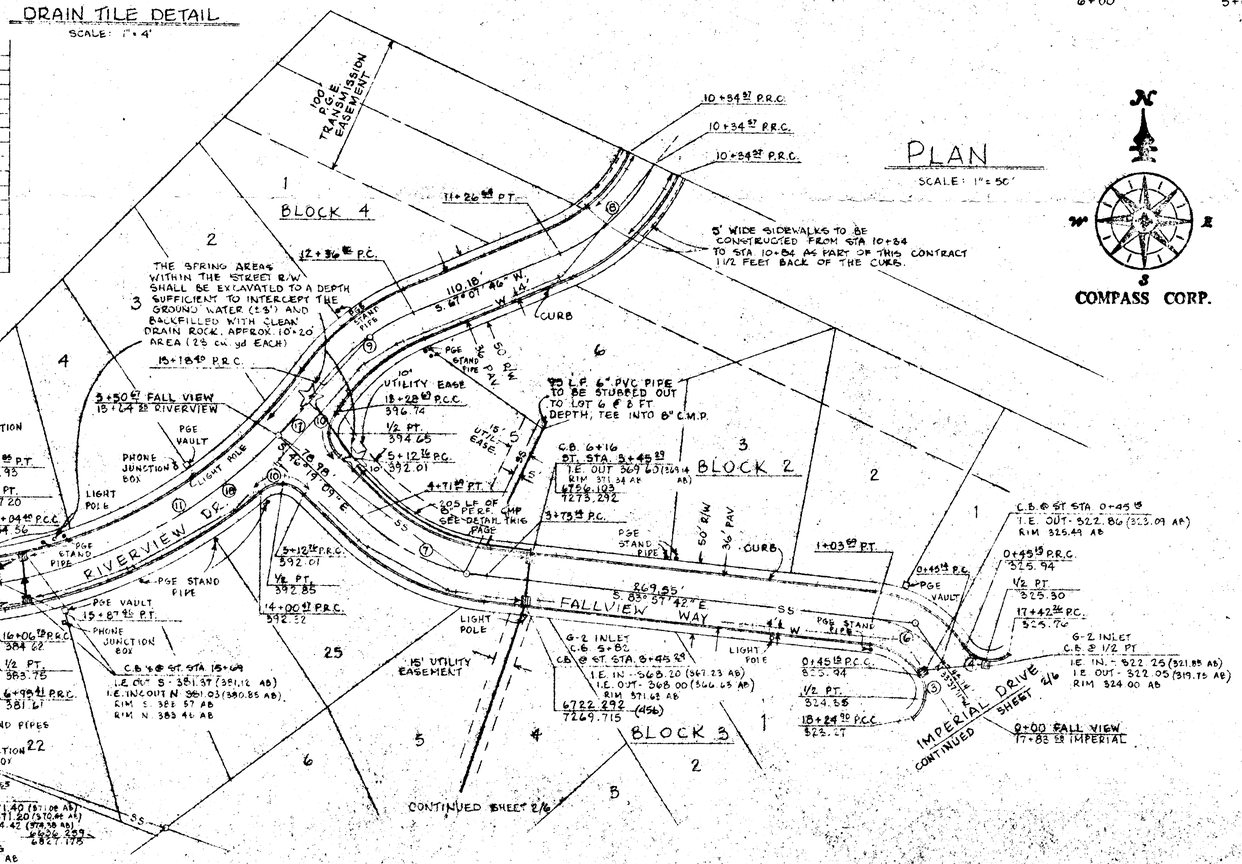


DRAIN TILE DETAIL

SCALE: 1" = 4'

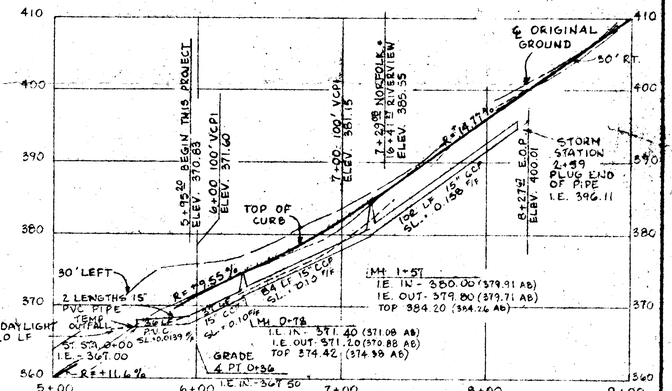
CURVE DATA

NO.	DELTA	RADIUS	LENGTH
3	90° 25' 45"	23'	36.30'
4	90° 24' 34"	23'	36.29'
6	50° 20' 32"	66.52'	58.45'
7	37° 56' 33"	150'	98.55'
8	42° 12' 00"	125'	92.07'
9	81° 09' 35"	150'	81.58'
10	84° 00' 26"	22'	32.26'
11	44° 55' 37"	343.14'	269.06'
12	79° 21' 07"	22'	30.47'
13	76° 59' 49"	22'	29.18'
14	69° 45' 05"	147.47'	166.65'
17	7° 42' 40"	343.14'	46.18'
18	37° 12' 57"	343.14'	222.88'
19	12° 45' 55"	147.47'	32.77'
20	52° 01' 12"	147.47'	133.88'



PLAN

SCALE: 1" = 50'



PROFILE: FALLVIEW WAY

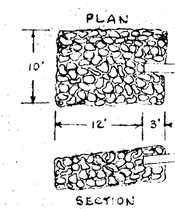
SCALE: 1" = 50' HORIZONTAL, 1" = 10' VERTICAL

PROFILE: NORFOLK STREET

SCALE: 1" = 50' HORIZONTAL, 1" = 10' VERTICAL

LEGEND

- ST — STORM SEWER
- SS — SANITARY SEWER
- W — WATER MAIN
- ☆ — POSSIBLE SPRING LOCATION
- → — INDICATE DRAINAGE FLOW DIRECTION



OUTFALL DETAIL

N.T.S.

DATE	NO.	REVISION
11-26-80	6	ADDED AS BUILT INFO
7-21-80	4	ADDED TOP MH ELEV'S & ADJUSTED PROFILE TO AGREE
4-10-80	3	ADDED TOP MH ELEV'S
3-19-80	2	REVISED CURB RETURN ELEV'S
2-28-80	1	REMOVED APPROVAL STICKER

DRAWN M. K. M. DESIGN E. J. W.
SCALE AS SHOWN DATE DEC., 1979
FILE 79-1562-1107

COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
8564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

JOHN SCHENK
543 THIRD STREET, SUITE 9-C
LAKE OSWEGO, OREGON PHONE: 635-5887

IMPERIAL OAKS NO. 2
"AS BUILT"

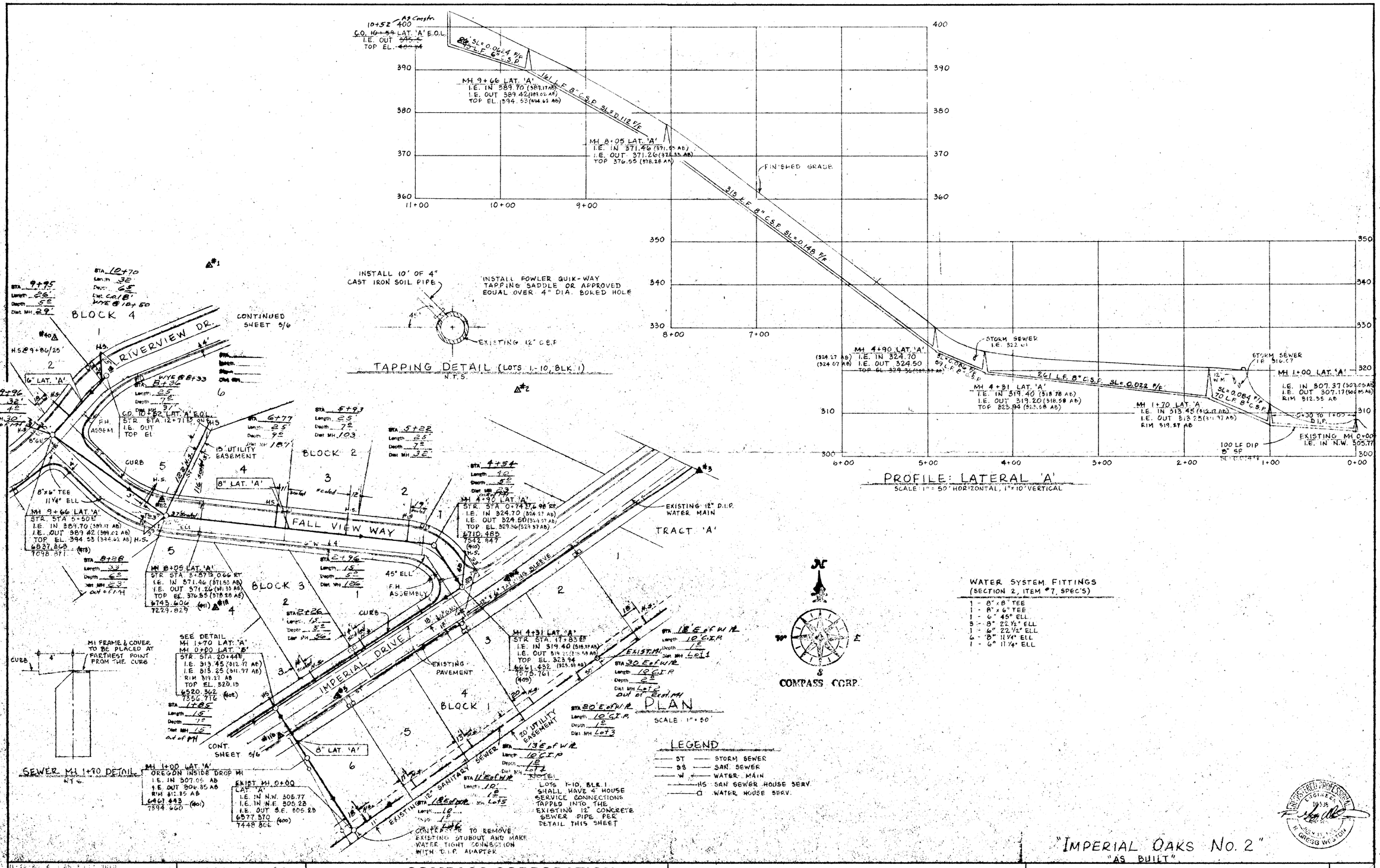
ROAD AND STORM SEWER IMPROVEMENTS
PLAN AND PROFILES

2/6

DEC 0 2 1980

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 13, 1976 — GREG WESTON

Willamette Print & Blueprint Company



NO.	DATE	REVISION
3	7-23-80	SAN. SEW. AS-BUILT GWW
2	4-10-80	ADDED TOP MH ELEV.'S
1	2-28-80	REMOVED APPROVAL STICKER

DRAWN: MMM. DESIGN: RGW
SCALE: AS SHOWN | DATE: DEC., 1979
FILE: 79-1562-1107

COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
8564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

JOHN SCHENK
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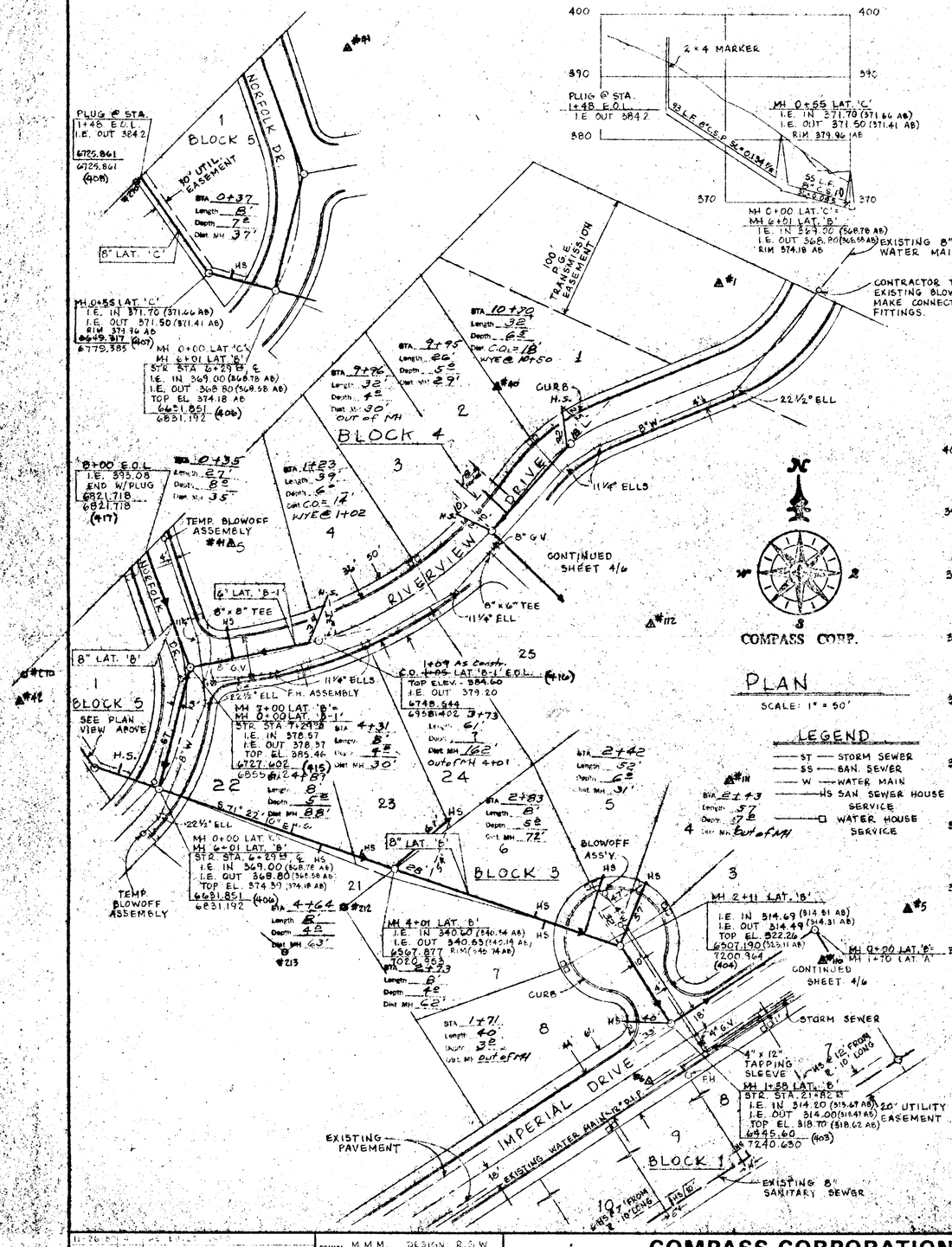
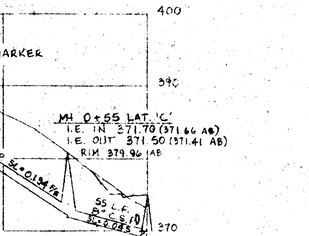
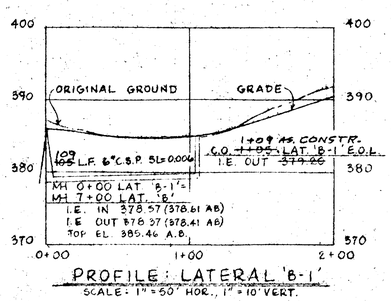
SANITARY SEWER AND WATER IMPROVEMENTS, PLAN AND PROFILES
DEC 02 1980

4/6

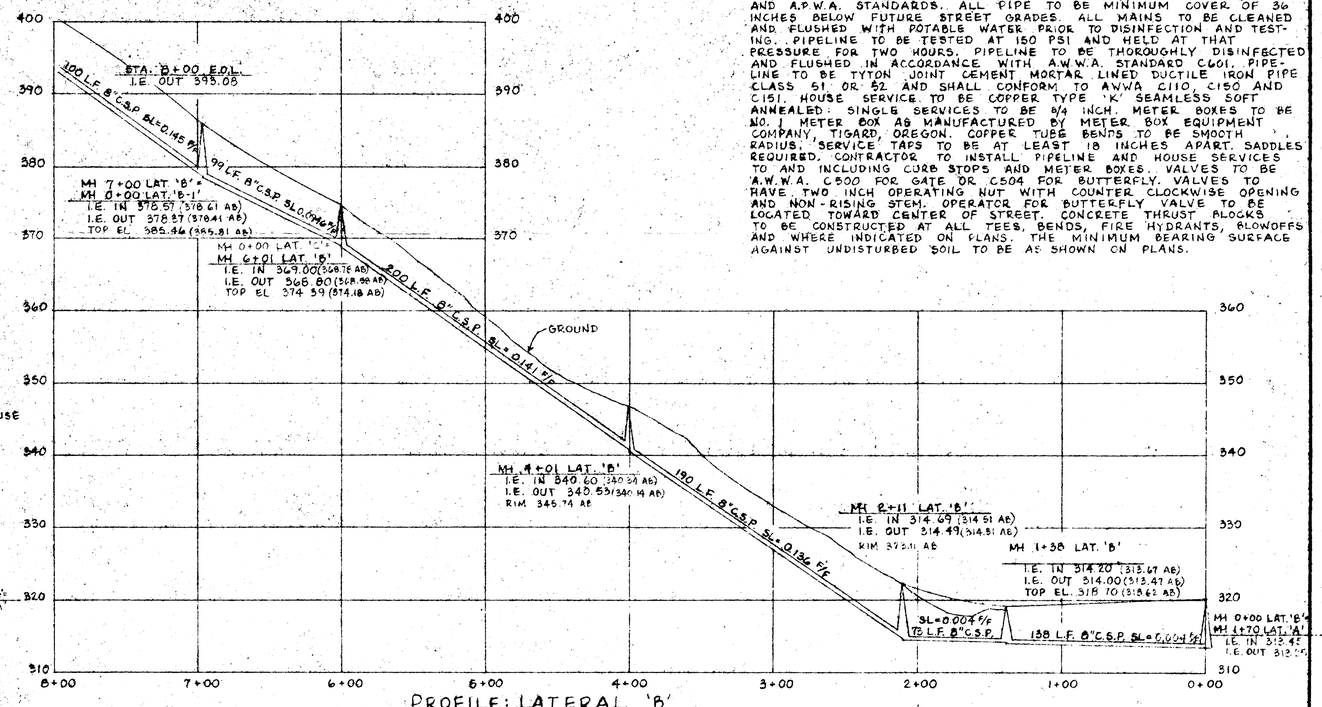
Willamette Print & Blueprint Company







PROFILE: LATERAL 'B-1'
SCALE: 1" = 50' HOR., 1" = 10' VERT.



PROFILE: LATERAL 'B'
SCALE: 1" = 50' HORIZONTAL, 1" = 10' VERTICAL

SANITARY SEWER NOTES

CONSTRUCTION SHALL CONFORM WITH THE CITY OF WEST LINN AND A.P.W.A. SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. ALL CONCRETE SANITARY SEWER PIPE SHALL BE ASTM C 14, CLASS 2 NONREINFORCED CONCRETE PIPE WITH RUBBER GASKETS. CONTRACTOR TO LOCATE ALL UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED. BUILDING SERVICE CONNECTIONS TO BE 4 INCH SEWER PIPE, AND SHALL EXTEND TO PROPERTY LINE OF LOT BEING SERVED. SERVICE CONNECTION TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FROM SEWER LATERAL OR MAIN. MINIMUM FLOW LINE ELEVATION OF HOUSE SERVICE AT PROPERTY LINE SHOWN IN PARENTHESIS WHERE CRITICAL. CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER SHOWING AS CONSTRUCTED DATA: STATION OF WYE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OR END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION. PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIVISION III, SECTION 61-3.03 B2 AND 61-3.05. COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHO T-99 IN ACCORDANCE WITH A.P.W.A. DIVISION III, SECTION 61-3.05. WATER SETTLEMENT WILL NOT BE ALLOWED IN PAVED AREAS WITH GRANULAR BACKFILL. STATIONING AND DISTANCE SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE. WYES AND 1/8TH BENDS REQUIRED FOR SERVICE CONNECTIONS.

WATER NOTES

CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATER MAIN TO AVOID CONFLICT WITH EXISTING UTILITIES. CONTRACTOR TO OBTAIN ALL PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. ALL WORK AND MATERIALS TO CONFORM WITH THE CITY OF WEST LINN, THE LATEST EDITION OF OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, A.W.W.A. AND A.P.W.A. STANDARDS. ALL PIPE TO BE MINIMUM COVER OF 36 INCHES BELOW FUTURE STREET GRADES. ALL MAINS TO BE CLEANED AND FLUSHED WITH POTABLE WATER PRIOR TO DISINFECTION AND TESTING. PIPELINE TO BE TESTED AT 150 PSI AND HELD AT THAT PRESSURE FOR TWO HOURS. PIPELINE TO BE THOROUGHLY DISINFECTED AND FLUSHED IN ACCORDANCE WITH A.W.W.A. STANDARD C601. PIPELINE TO BE TYTON JOINT CEMENT MORTAR LINED DUCTILE IRON PIPE CLASS 51 OR 52 AND SHALL CONFORM TO AWWA C110, C150 AND C151. HOUSE SERVICE TO BE COPPER TYPE 'K' SEAMLESS SOFT ANNEALED. SINGLE SERVICES TO BE 3/4 INCH. METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON. COPPER TUBE BENDS TO BE SMOOTH RADIUS. 'SERVICE' TAPS TO BE AT LEAST 18 INCHES APART. SADDLES REQUIRED. CONTRACTOR TO INSTALL PIPELINE AND HOUSE SERVICES TO AND INCLUDING CURB STOPS AND METER BOXES. VALVES TO BE A.W.W.A. C500 FOR GATE OR C504 FOR BUTTERFLY. VALVES TO HAVE TWO INCH OPERATING NUT WITH COUNTER CLOCKWISE OPENING AND NON-RISING STEM. OPERATOR FOR BUTTERFLY VALVE TO BE LOCATED TOWARD CENTER OF STREET. CONCRETE THRUST BLOCKS TO BE CONSTRUCTED AT ALL TEES, BENDS, FIRE HYDRANTS, BLOWOFFS AND WHERE INDICATED ON PLANS. THE MINIMUM BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE AS SHOWN ON PLANS.

COMPASS CORP.

PLAN
SCALE: 1" = 50'

LEGEND
- ST — STORM SEWER
- SS — SAN. SEWER
- W — WATER MAIN
- HS SAN. SEWER HOUSE SERVICE
- WATER HOUSE SERVICE

"AS BUILT"

"IMPERIAL OAKS NO. 2"

DATE	NO.	REVISION
11-26-80	4	AS BUILT C.N.J.
7-23-80	3	SAN. SEW. AS BUILT C.N.J.
4-10-80	2	ADDED TOP MH, REVISED LAT. 'C'
2-28-80	1	REMOVED APPROVAL STICKER

DRAWN M.M.M. DESIGN R.G.W.
SCALE AS SHOWN DATE DEC., 1979
FILE 79-1562-1107

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SANITARY SEWER AND WATER IMPROVEMENTS, PLAN AND PROFILES

DEC 02 1980

5/6

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