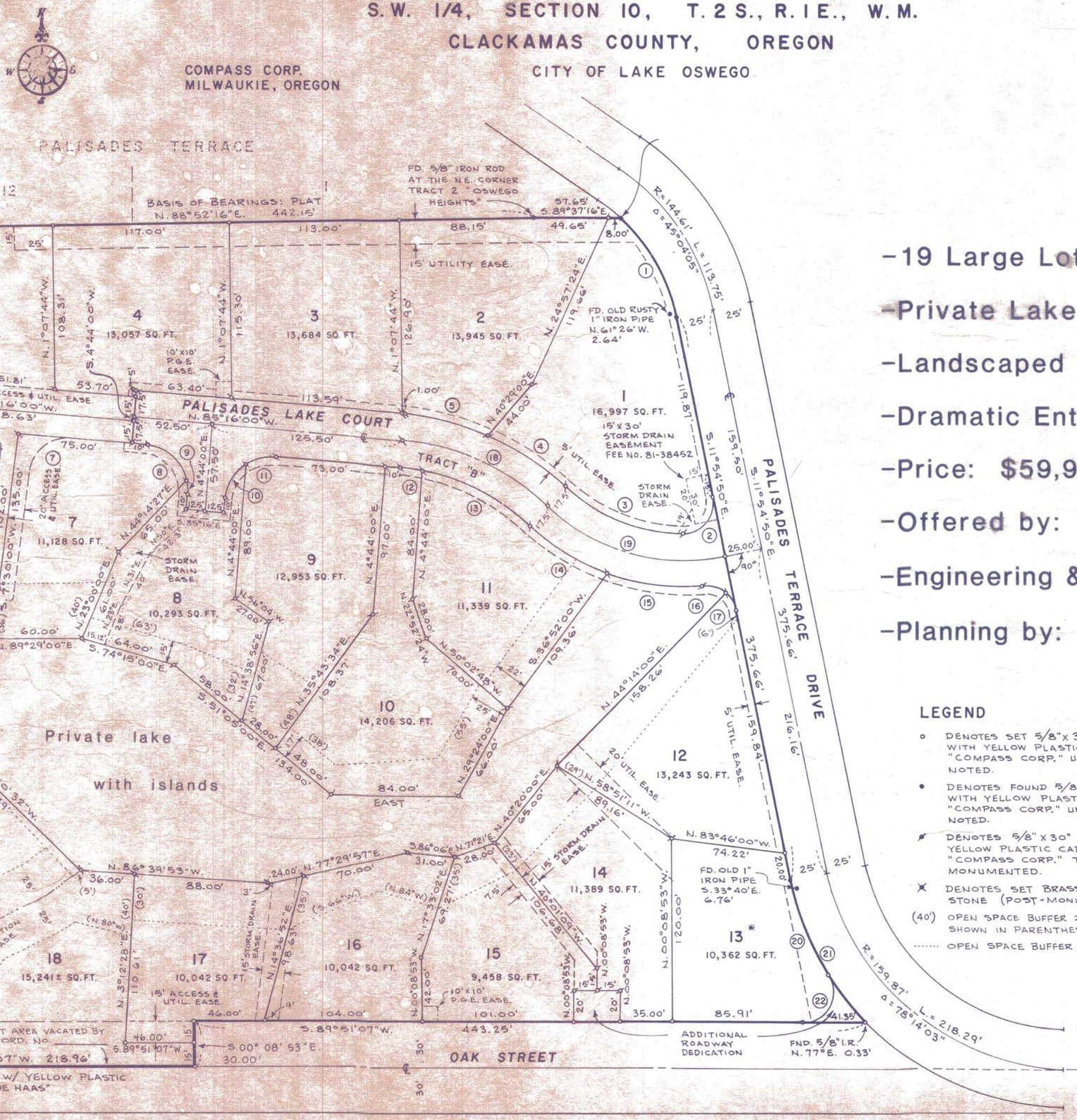
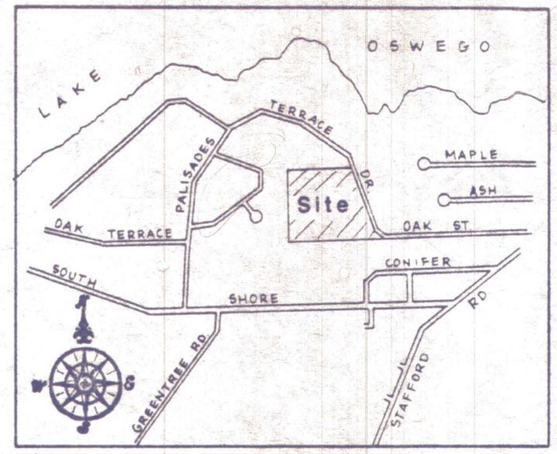
PALISADES LAKE ESTATES

A REPLAT OF
TRACT 2 AND A PORTION OF TRACT 1, "OSWEGO HEIGHTS"
S.W. 1/4, SECTION 10, T. 2 S., R. 1 E., W.M.
CLACKAMAS COUNTY, OREGON
CITY OF LAKE OSWEGO

COMPASS CORP.
MILWAUKIE, OREGON





VICINITY MAP
N.T.S.

- 19 Large Lots in Lake Oswego
- Private Lake with Dramatic Waterfalls
- Landscaped Islands and Walkway
- Dramatic Entryways
- Price: $59,950 - $84,950
- Offered by: Lakeview Realty Group, Inc.
- Engineering & Surveying by: Compass Corp.
- Planning by: Givens/Talbot & Assoc.

LEGEND

- ○ DENOTES SET 5/8"X 30" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." UNLESS OTHERWISE NOTED.
- ● DENOTES FOUND 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." UNLESS OTHERWISE NOTED.
- ⊗ DENOTES 5/8" X 30" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." TO BE POST-MONUMENTED.
- ✕ DENOTES SET BRASS SCREW IN STONE (POST-MONUMENTED)
- (40') OPEN SPACE BUFFER ZONE DIMENSIONS SHOWN IN PARENTHESES.
- ..... OPEN SPACE BUFFER ZONE BOUNDARY.

CURVE DATA				
NO.	DELTA	LENGTH	RADIUS	LONG CHORD
1	36°07'31"	75.42'	119.61'	74.17'
2	102°10'37"	35.67'	20.00'	31.13'
3	42°22'13"	85.04'	115.00'	83.12'
4	19°43'15"	61.95'	180.00'	61.65'
5	18°10'45"	57.11'	180.00'	56.87'
6	92°46'00"	16.19'	10.00'	14.48'
7	87°14'00"	30.45'	20.00'	27.59'
8	73°05'42"	38.27'	30.00'	35.73'
9	16°54'18"	8.85'	30.00'	8.82'
10	53°07'58"	27.82'	30.00'	26.83'
11	36°52'02"	19.30'	30.00'	18.97'
12	5°56'16"	15.03'	145.00'	15.02'
13	31°57'44"	80.89'	145.00'	79.84'
14	23°16'10"	60.92'	150.00'	60.50'
15	24°30'30"	64.16'	150.00'	63.67'
16	45°13'09"	15.78'	20.00'	15.38'
17	38°00'41"	13.27'	20.00'	13.03'
18	37°54'00"	107.49'	162.50'	105.54'
19	54°32'50"	126.14'	132.50'	121.43'
20	20°39'55"	66.68'	184.87'	66.32'
21	32°51'38"	106.03'	184.87'	104.58'
22	122°25'51"	42.74'	20.00'	35.06'

NOV 1 1985



PLAN

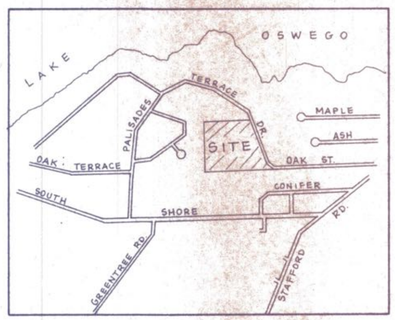
SCALE: 1" = 50'

SANITARY SEWER NOTES

* CONCRETE SANITARY SEWER PIPE SHALL BE ASTM C14. CLASS 3 NONREINFORCED CONCRETE PIPE WITH RUBBER GASKETS UNLESS SHOWN OTHERWISE ON PROFILE.
* ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
* ALL TRENCH EXCAVATION SHALL CONFORM TO SECTION 401.01 AND SHALL BE UNCLASSIFIED.
* ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF ON SITE.
* PIPE BEDDING SHALL BE AS PER SECTION 401.02 AND SHALL BE 3/4"-0 CRUSHED ROCK.
* TRENCH BACKFILL SHALL BE CLASS "2" PER SECTION 401.43 ON ALL SEWER LINES OUTSIDE PUBLIC RIGHTS-OF-WAY OR OUTSIDE OF PAVED AREAS. TRENCH BACKFILL SHALL BE CLASS "4' PER SECTION 401.43 IN ALL PUBLIC RIGHTS-OF-WAY OR PAVED AREAS IN THE PROJECT.
* TRENCH BACKFILL COMPACTION SHALL BE 95% OF MAXIMUM RELATIVE DENSITY BY AASTHO T99. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE THE REQUIRED COMPACTION. SUBSEQUENT SETTLEMENT OF THE FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONRACTOR AT NO EXPENSE TO THE OWNER.
* ALL CONCRETE MANHOLES SHOWN ON THE PLANS ARE 48" MINIMUM DIAMETER AND CONFORM TO CITY STANDARDS.
* BUILDING SERVICE CONNECTIONS TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FROM SEWER LATERAL OR MAIN. SERVICE SHALL BE 6-INCH SEWER PIPE AND SHALL EXTEND TO MINIMUM OF 1 PIPE LENGTH BEYOND THE RIGHT-OF-WAY OR EASEMENT LINE.
* STATIONING AND DISTANCE SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE.
* CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER SHOWING AS-CONSTRUCTION DATA: STATION OF WYE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OF END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION.
* FIELD OBSERVATION WILL BE AS DEEMED NECESSARY BY ENGINEER. IF INSPECTOR IS NOT PRESENT, CONTRACTOR SHALL CALL FOR INSPECTION PRIOR TO BACKFILLING TRENCH AND TO WITNESS PIPELINE TESTING.
* ALL SEWER LINES ARE TO BE AIR TESTED PER SECTION 402.33 OF THE STANDARD SPECIFICATIONS.

WATER SYSTEM NOTES

* ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF LAKE OSWEGO STANDARDS, THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES CHAPTER 333 AND THE A.W.W.A. STANDARDS.
* CONTRACTOR SHALL NOTIFY UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL COORDINATE WATER LINE CONSTRUCTION WITH OTHER FACILITIES AND UTILITIES.
* CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATER LINE TO AVOID CONFLICT WITH THE EXISTING UTILITIES.
* ALL PIPE TO BE MINIMUM COVER OF 30 INCHES BELOW FUTURE STREET GRADES.
* CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT PIPE INTERIORS, FITTTINGS, AND VALVES AGAINST CONTAMINATION.
* FIRE HYDRANTS TO BE DRY-BARREL TYPE AND COMPLY WITH A.W.W.A. C502. WATEROUS OR MUELLER (PREFERRED).
* HOUSE SERVICES TO BE COPPER TYPE "K" SEAMLESS SOFT ANNEALED. SERVICES TO HAVE CORP. STOPS FORD F-600 OR ANGLE METER STOP FORD KVC-2W. ALL SERVICES TO BE 3/4" WITH EACH LOT HAVING ITS OWN SERVICE TAP. COPPER TUBE BENDS TO BE SMOOTHE RADIUS.
* METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON. METER LOCATIONS TO BE 8-INCHES BELOW TOP OF CURB AND 12-INCHES BEHIND CURB. SERVICE TAPS TO BE AT LEAST 18-INCHES APART. SERVICE METER STOPS TO BE LOCKING WING NUT TYPE.
* GATE VALVES TO BE A.W.W.A C500. BUTTERFLY VALVES TO MEET A.W.W.A. C504. VALVES TO HAVE 2-INCH OPERATING NUT WITH COUNTER CLOCKWISE OPENING AND NON-RISING STEM. VALVE BOXES TO BE CAST IRON WITH LUG TYPE LID.
* DUCTILE IRON PIPE TO BE TYTON JOINT CEMENT MORTAR LINED CLASS 52 AND SHALL CONFORM TO ASTM C110, C150, C151.
* FITTINGS AND PIPE SECTIONS THAT WILL NOT BE DISINFECTED BY CHLORINE IN LINE FOR 24 HOURS SHALL HAVE THE INTERIORS SWABBED WITH A 5 PERCENT HYPOCHLORITE SOLUTION BEFORE THEY ARE INSTALLED.
* CONCRETE THRUST BLOCKS TO BE CONSTUCTED AT TEES, BENDS, FIRE HYDRANTS, BLOWOFFS AND WHERE INDICATED ON PLANS. THE MINIMUM BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE AS SHOWN ON THE DETAIL SHEET.
* CONCRETE SHALL BE ALLOWED TO CURE BEFORE PIPELINE PRESSURE TESTING.
* ALL WATER MAINS TO BE TESTED AND STERILIZED PER SECTION 302.35 AND 302.36 OF THE STANDARD SPECIFICATIONS. PIPELINE TO BE TESTED AT 200 P.S.I. AND HELD AT THE PRESSURE FOR 30 MINUTES. TEST TO BE WITNESSED BY THE CITY OF LAKE OSWEGO.
* ALL CAST IRON VALVES AND FITTINGS REMOVED DURING CONSTRUCTION REMAIN THE PROPERTY OF THE CITY OF LAKE OSWEGO AND MUST BE RETURNED TO THE CITY OF LAKE OSWEGO PUBLIC WORKS.



VICINITY MAP

N.T.S.

GENERAL NOTES

* ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF LAKE OSWEGO PUBLIC WORKS DEPARTMENT AND O.S.H.D. COPIES OF THE CITY OF LAKE OSWEGO STANDARD SPECIFICATIONS ARE AVAILABLE AT THE CITY HALL OR FOR INSPECTION, AT COMPASS ENGINEERING. UNLESS OTHERWISE NOTED THE CITY OF LAKE OSWEGO SPECIFICATIONS SHALL BE HEREAFTER CALLED STANDARD SPECIFICATIONS.
* CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL ARRANGE FOR RELOCATION OF 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.
* THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
* CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.
* CONTRACTOR SHALL NOTIFY COMPASS CORPORATION AND THE CITY OF LAKE OSWEGO 24 HOURS BEFORE STARTING CONSTRUCTION OR RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS OR HOLIDAYS. CONTRACTOR SHALL NOTIFY COMPASS CORPORATION OF ANY SHUTDOWNS SO AS TO ELIMINATE UNNECESSARY INSPECTION TIME.

STREET AND STORM DRAINAGE NOTES

* CONCRETE CULVERT PIPE SHALL BE ASTM C 14 CLASS 3 NONREINFORCED CONCRETE PIPE UNLESS SHOWN OTHERWISE ON PROFILE. PIPE BEDDING SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF THE STANDARD SPECIFICATIONS SECTION 501 AND SHALL BE 3/4"-0 CRUSHED ROCK.
* TRENCHES WITHIN THE RIGHTS-OF-WAY SHALL BE "CLASS 4" BACKFILL WITH SELECT GRANULAR MATERIAL CONFORMING TO SECTION 501.43 OF THE STANDARD SPECIFICATIONS.
* TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL CONFORMING TO CLASS "2" PER SECTION 501.43 OF THE STANDARD SPECIFICATIONS.
* COMPACTION SHALL BE TO 95% OF MAXIMUM RELATIVE DENSITY BY AASHTO T99. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION.
* MATERIAL IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH PIT RUN CURSHED 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 AASHTO T99).
* CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADE IS COMPLETE AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR AN INSPECTION OF THE WORK. FAILURE TO DO SO WILL MAKE ANY SUBGRADE FAILURE OR DRAINAGE PROBLEMS THE RESPONSIBILITY OF THE CONTRACTOR.
* ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED BY O.S.H.D FOR MATERIAL USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT UNLESS OTHERWISE INDICATED. ASPHALT MIX CLASSIFICATIONS SHALL BE PER THE PAVEMENT SECTION SHOWN ON THE STANDARD DETAIL SHEET.
* EXCESS EXCAVATION TO BE SPREAD AND COMPACTED EVENLY ON LOTS AS DIRECTED BY OWNER. VEGETATION AND TOPSOIL TO BE STRIPPED OFF FILL AREAS PRIOR TO FILLING.
* UNLESS OTHERWISE NOTED, SIDEWALKS SHOWN ON STREET SECTION ARE NOT PART OF THIS CONTRACT. THEY WILL BE CONSTRUCTED AS PART OF THE LOT IMPROVEMENTS.
* ALL CONCRETE MANHOLES SHOWN ON THE PLANS ARE 48" MINIMUM DIAMETER UNLESS OTHERWISE NOTED AND SHALL CONFORM TO CITY STANDARDS.

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 15, 1980 — LEE A. BRIGGS

FOR APPROVALS ONLY
"NOT FOR CONSTRUCTION"

JUN 28 1985

DATE	NO.	REVISION
6/27/85	1	REVISED PER CITY OF L.O. REQUIREMENTS

DRAWN M.M.M. | DESIGNED L.A.B. | CHECKED
SCALE AS SHOWN | DATE MAY, 1985
FILE 84-2109-1320

COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222
(503) 222-4652
(503) 653-9093

Lakeview Realty Group, Inc.
18517 S.W. Bryant Road
Lake Oswego, Oregon 97034

Palisades Lake Estates

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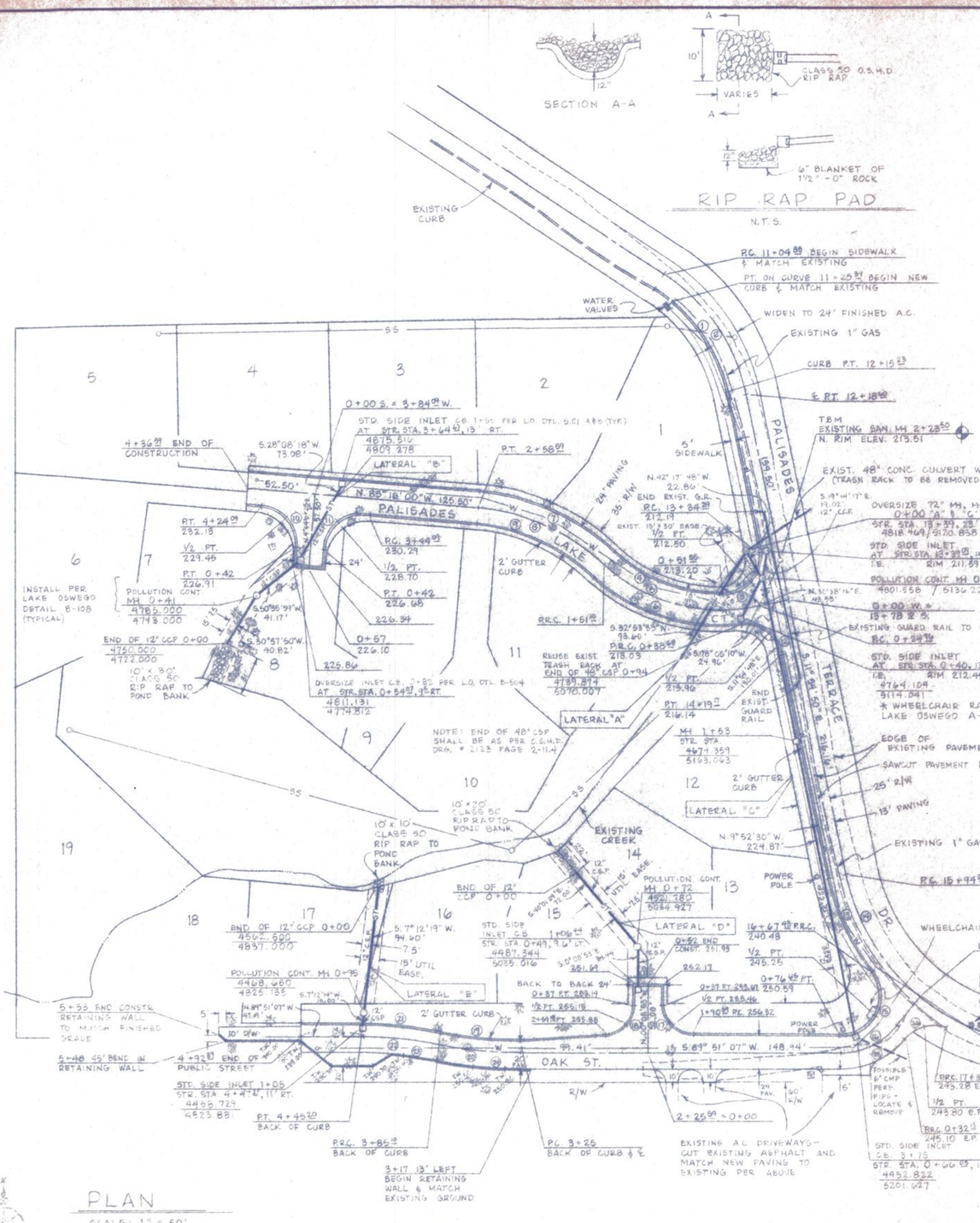


PLAN

SCALE: 1" = 50'

NOTE: CONSTRUCT RETAINING WALL AS PER OREGON STATE HIGHWAY DRAWING NO. B-1148, PG. 6-6.6 W/2:1 BACK SLOPE.

NOTE: ALL CURB DATA TO BACK OF CURB.

CURVE DATA

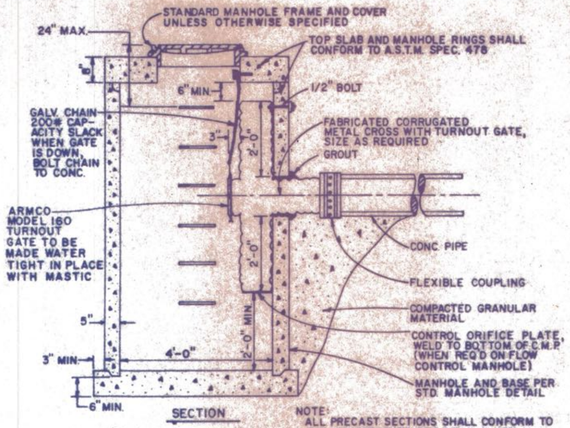
	RADIUS	LENGTH	DELTA
1	126.24	78.76	35° 44' 38"
2	144.61	113.75	45° 04' 05"
3	28.00	49.60	101° 29' 50"
4	118.50	112.81	54° 32' 50"
5	132.50	126.14	54° 32' 50"
6	146.50	139.47	54° 32' 50"
7	176.50	116.75	37° 54' 00"
8	162.50	107.49	37° 54' 00"
9	148.50	98.23	37° 54' 00"
10	28.00	43.98	90° 00' 00"
11	28.00	43.98	90° 00' 00"
12	28.00	41.08	84° 04' 00"
13	174.87	73.17	23° 58' 26"
14	159.87	218.29	78° 14' 08"
15	28.00	62.55	127° 59' 21"
16	65.00	49.29	51° 21' 02"
17	23.00	36.19	90° 00' 00"
18	23.00	34.72	86° 29' 06"
19	300.00	60.10	11° 28' 42"
20	312.00	62.50	11° 28' 42"
21	300.00	60.10	11° 28' 42"
22	288.00	57.70	11° 28' 42"
23	278.00	55.69	11° 28' 42"
24	322.00	64.51	11° 28' 42"
25	67.00	44.52	38° 04' 18"
26	30.00	38.23	73° 01' 11"

RIP RAP PAD

N.T.S.

LEGEND

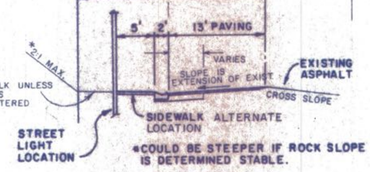
—ST— STORM SEWER
—SS— SANITARY SEWER
—W— WATER
EXISTING TREE
TW TOP OF WALL



NOTE: ALL PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M.-C-478. ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I. AND 2" TO 4" SLUMP.

POLLUTION/FLOW CONTROL MANHOLE

N.T.S.

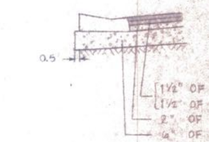


*COULD BE STEEPER IF ROCK SLOPE IS DETERMINED STABLE.

PALISADES TERRACE SECTION

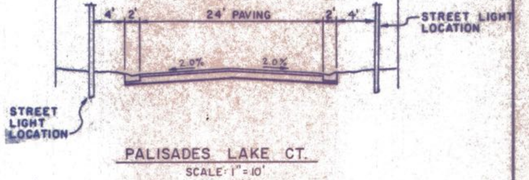
SCALE 1" = 10'

NOTE: GRADING TO BE CARRIED TO PROPERTY LINE TO INSTALL SIDEWALK. SIDEWALK IS TO MEANDER AROUND LIGHT POLE, HYDRANTS, MAILBOXES, ETC. SIDEWALK IS TO BE BUILT AT CURB LINE ONLY WHERE ROCK BLUFFS ARE ENCOUNTERED.



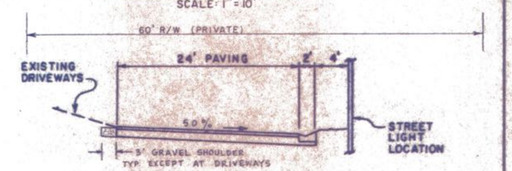
TYPICAL PAVEMENT SECTION

N.T.S.



PALISADES LAKE CT.

SCALE: 1" = 10'



OAK ST.

SCALE: 1" = 10'

REGISTERED PROFESSIONAL ENGINEER — 12,146 — Lee A. Briggs — OREGON — JULY 15, 1980 — LEE A. BRIGGS

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Palisades Lake Estates

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DRAWN M.M.M. | DESIGNED L.A.B. | CHECKED
SCALE AS SHOWN | DATE MAY, 1985
FILE 84 - 2109 - 1320

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Lakeview Realty Group, Inc.
18517 S.W. Bryant Road
Lake Oswego, Oregon 97034

Road and Storm Sewer Improvements Plan

JUN 28 1985

2 / 9

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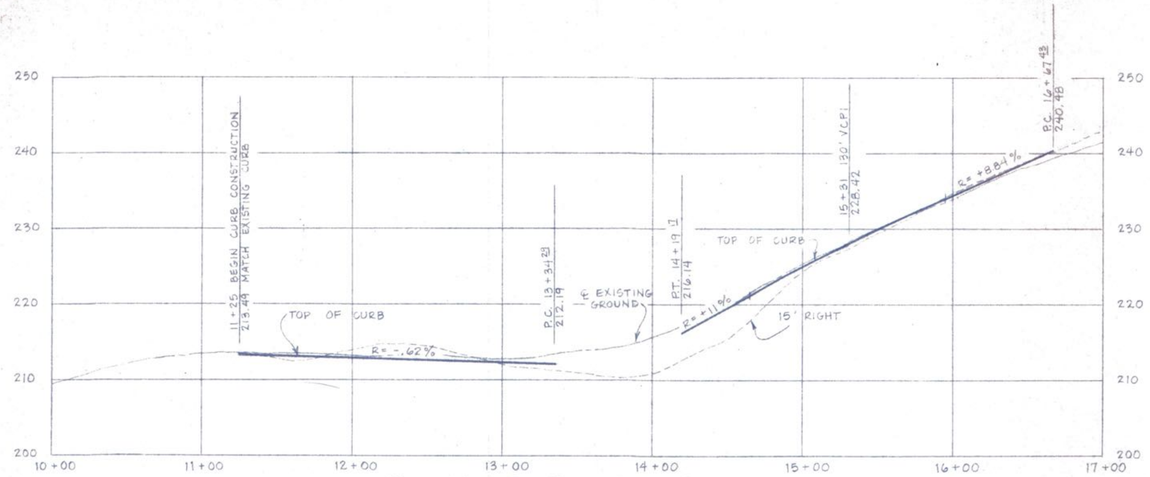
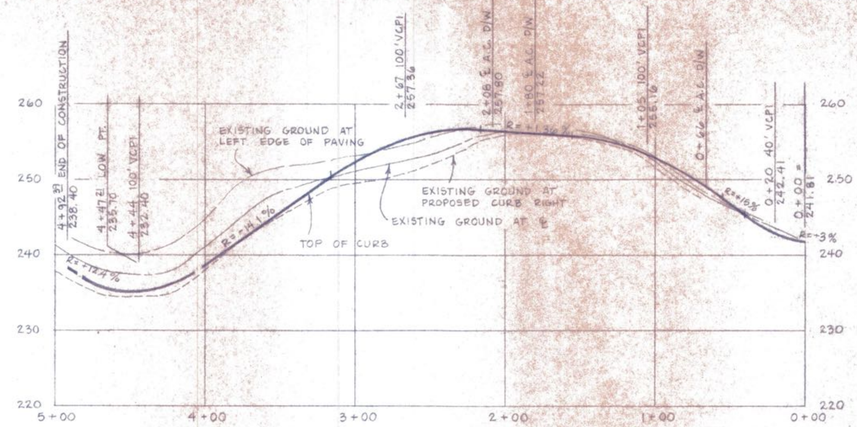


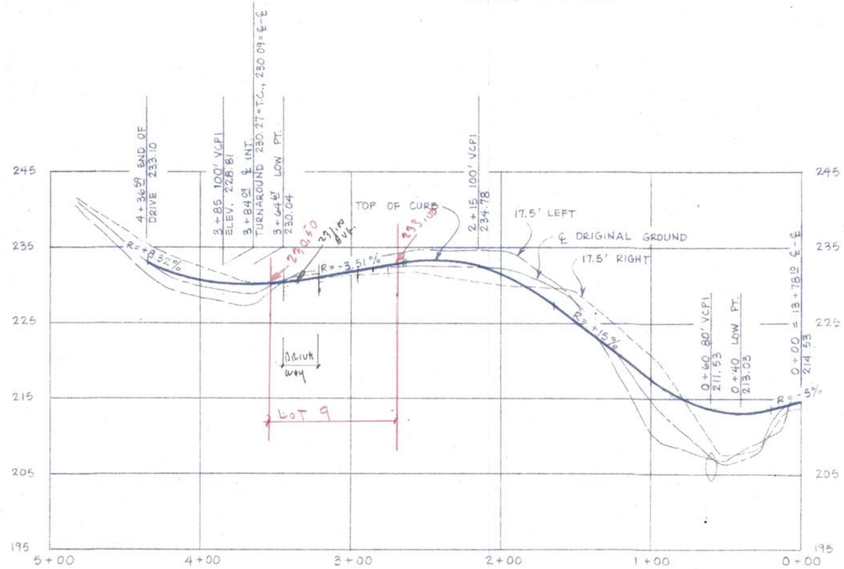
PALISADES TERRACE DRIVE

1" = 50' HOR., 1" = 10' VER.



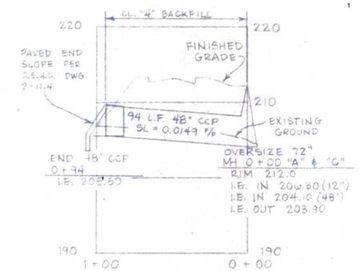
OAK STREET

1" = 50' HOR., 1" = 10' VER.



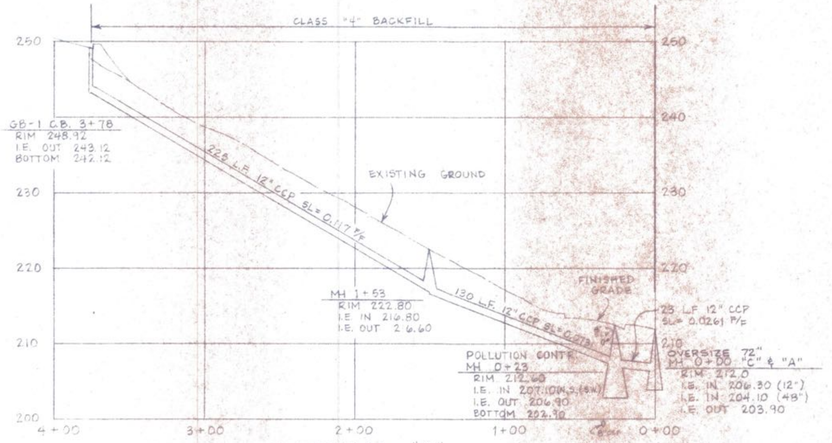
PALISADES LAKE COURT

1" = 50' HOR., 1" = 10' VER.



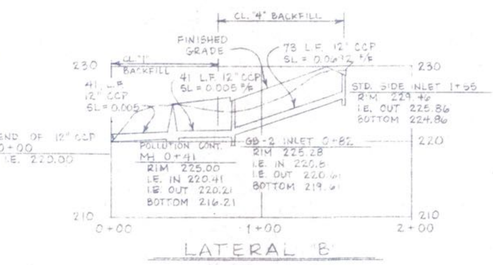
LATERAL "A"

1" = 50' H., 1" = 10' V.



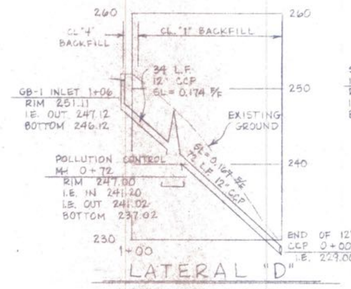
LATERAL "C"

1" = 50' H., 1" = 10' V.



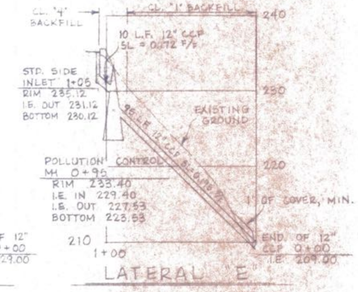
LATERAL "B"

1" = 50' H., 1" = 10' V



LATERAL "D"

1" = 50' H., 1" = 10' V.



LATERAL "E"

1" = 50' H., 1" = 10' V

REGISTERED PROFESSIONAL ENGINEER 12,146 OREGON JULY 15, 1982 Lee A. Briggs LEE A. BRIGGS

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Palisades Lake Estates

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Road and Storm Sewer Improvements Profiles

JUN 28 1985

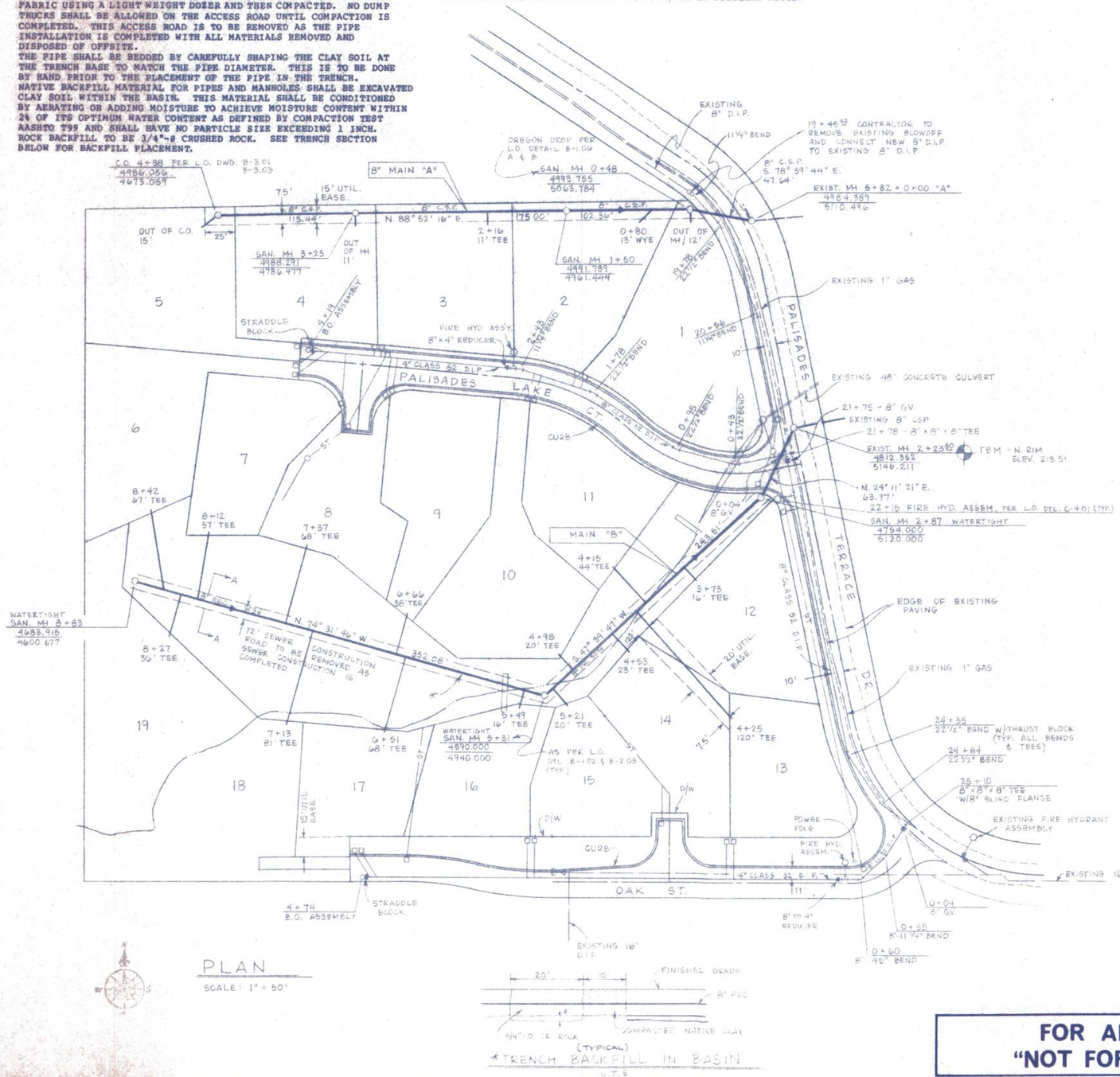
3/9

Willamette Print & Blueprint Company

TRENCH EXCAVATING AND BACKFILL WITHIN THE BASIN AREA

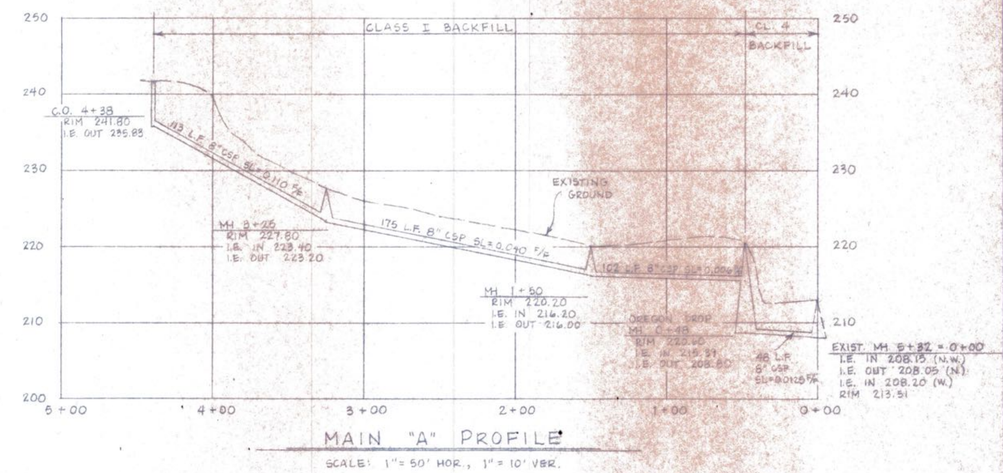
EXCAVATION WITHIN THE BASIN AREA IS TO BE DONE IN SUCH A MANNER AS TO NOT PENITRATE THROUGH THE CLAY SOIL LAYER TO BEDROCK. IF THIS SHOULD OCCUR THIS AREA IS TO BE CAREFULLY BACKFILLED AS DESCRIBED. ANY AREA THAT SUCH A PENITRATION IS MADE SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER.
EXCAVATION SHALL BE DONE IN THIS AREA BY USE OF AN ACCESS ROAD CONSTRUCTED WITH A FILTER FABRIC BLANKET OVERLAYED WITH A MINIMUM OF 18 INCHES OF CRUSHED ROCK AS PER THE DETAIL ON THIS SHEET. THIS 18 INCHES OF CRUSHED ROCK IS TO BE SPREAD OVER THE FILTER FABRIC USING A LIGHT WEIGHT DOZER AND THEN COMPACTED. NO DUMP TRUCKS SHALL BE ALLOWED ON THE ACCESS ROAD UNTIL COMPACTION IS COMPLETED. THIS ACCESS ROAD IS TO BE REMOVED AS THE PIPE INSTALLATION IS COMPLETED WITH ALL MATERIALS REMOVED AND DISPOSED OF OFFSITE.
THE PIPE SHALL BE BEDDED BY CAREFULLY SHAPING THE CLAY SOIL AT THE TRENCH BASE TO MATCH THE PIPE DIAMETER. THIS IS TO BE DONE BY HAND PRIOR TO THE PLACEMENT OF THE PIPE IN THE TRENCH.
NATIVE BACKFILL MATERIAL FOR PIPES AND MANHOLES SHALL BE EXCAVATED CLAY SOIL WITHIN THE BASIN. THIS MATERIAL SHALL BE CONDITIONED BY AERATING OR ADDING MOISTURE TO ACHIEVE MOISTURE CONTENT WITHIN 2% OF ITS OPTIMUM WATER CONTENT AS DEFINED BY COMPACTION TEST AASHTO T99 AND SHALL HAVE NO PARTICLE SIZE EXCEEDING 1 INCH. ROCK BACKFILL TO BE 3/4"-0 CRUSHED ROCK. SEE TRENCH SECTION BELOW FOR BACKFILL PLACEMENT.

BACKFILL SHALL BE PLACED IN NO GREATER THAT 6 INCH LOOSE LIFTS AND IS TO BE COMPACTED TO 97% OF THE AASHTO T99 MAXIMUM DRY DENSITY.
PRIOR TO THE PLACEMENT OF EACH LIFT OF BACKFILL, THE FILL SURFACE SHALL BE ROUGHENED WITH A RAKE TO MINIMIZE THE POTENTIAL FOR A HIGHLY PERMEABLE SEAM WITHIN THE BACKFILL MATERIAL.
TEST PIT EXPLORATIONS HAVE INDICATED BEDROCK AT 2 TO 7.5 FEET BELOW THE EXISTING GROUND SURFACE IN THE BASIN AREA. NO TEST PITS WERE MADE ON THE PROPOSED SANITARY SEWER PIPELINE ROUTE.

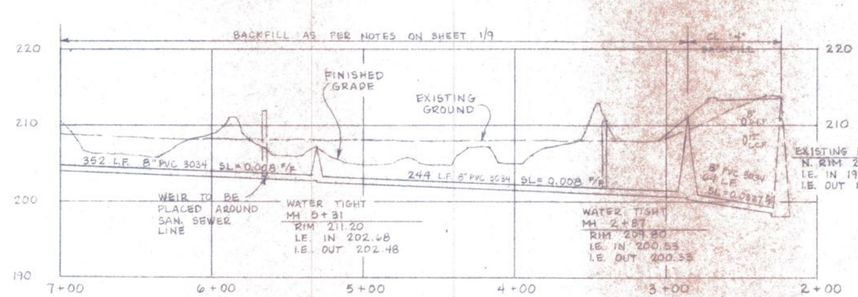


PLAN
SCALE: 1" = 50'

★TRENCH BACKFILL IN BASIN
N.T.S.



MAIN "A" PROFILE
SCALE: 1" = 50' HOR., 1" = 10' VER.



MAIN "B" PROFILE
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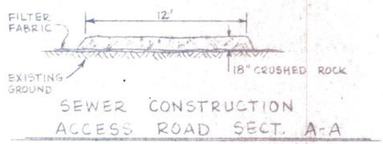
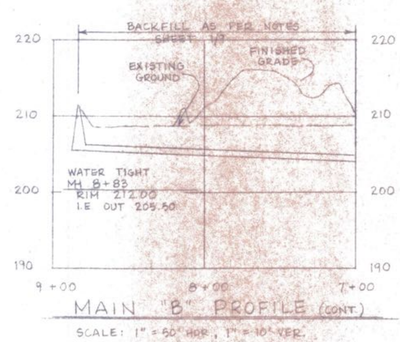


SEWER CONSTRUCTION ACCESS ROAD SECT. A-A
N.T.S.



MAIN "B" PROFILE (CONT.)
SCALE: 1" = 50' HOR., 1" = 10' VER.

REGISTERED PROFESSIONAL ENGINEER 12,146 OREGON JULY 15, 1977 Lee A. Briggs LEE A. BRIGGS

FOR APPROVALS ONLY
"NOT FOR CONSTRUCTION"

Palisades Lake Estates

6/27/85	REVISED PER CITY OF L.O. REQUIREMENTS	DRAWN M.M.M.	DESIGNED L. A. B.
DATE	NO. REVISION	CHECKED	
		SCALE AS SHOWN	DATE MAY, 1985
		FILE 84-2109-1320	

COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
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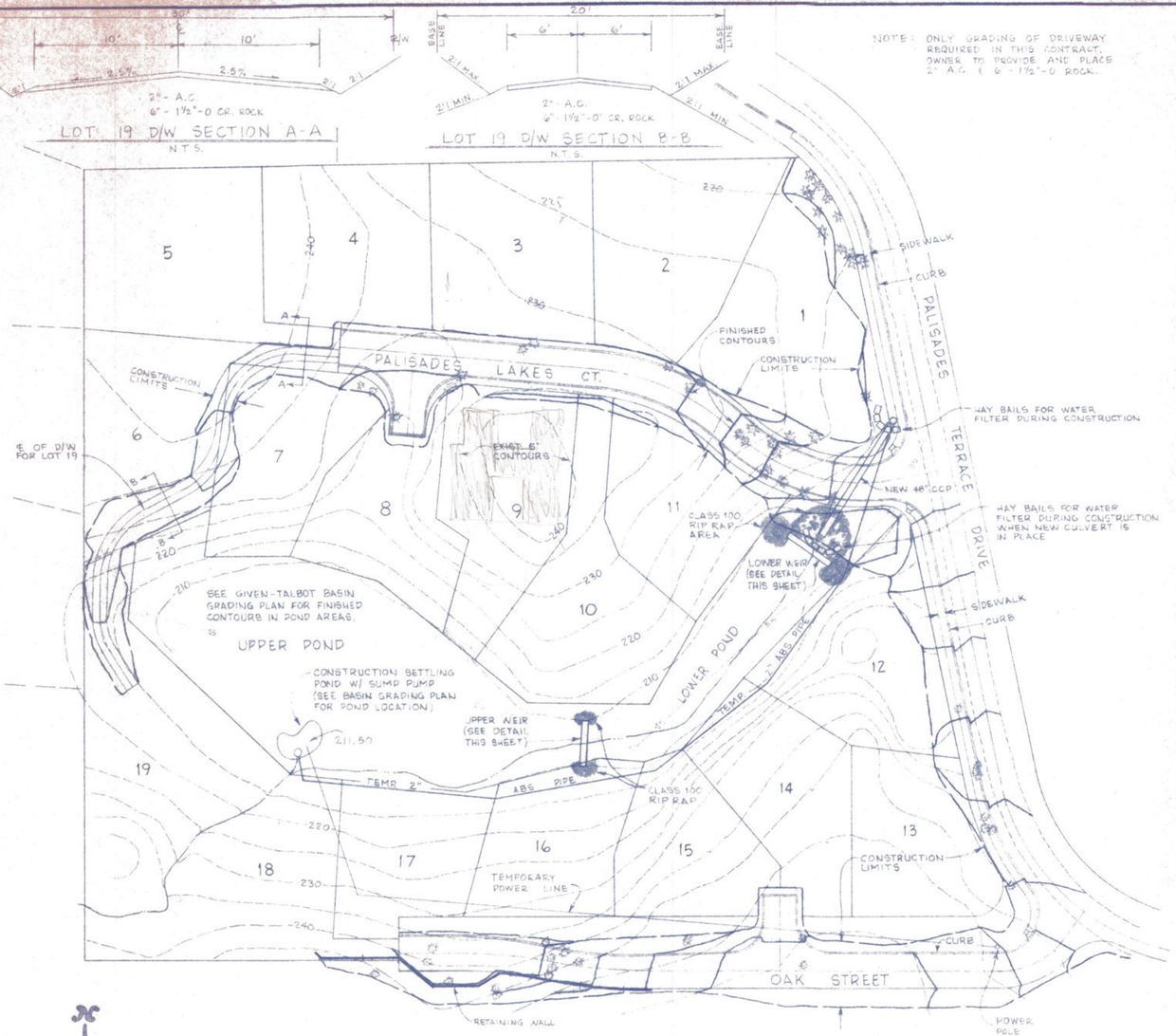
Lakeview Realty Group, Inc.
18517 S.W. Bryant Road
Lake Oswego, Oregon 97034

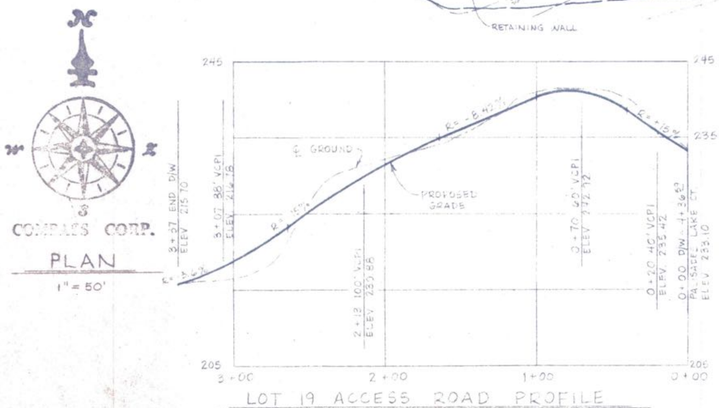
JUN 28 1985

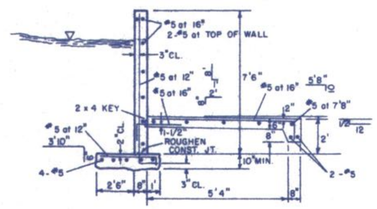
Sanitary Sewer and Water Improvements
Plan and Profiles

4/9

Wilsonville Print & Blueprint Company







TYPICAL WEIR SECTION
N.T.S.

MOISTENING AND COMPACTING EMBANKMENTS CONSTRUCTED WITH NATIVE MATERIAL

COMPACT EACH LIFT WITH A PNEUMATIC OR SHEEPSFOOT ROLLER TO AT LEAST 92 PERCENT OF LABORATORY DENSITY PER AASHTO T180. COMPACTION TESTS WILL BE MADE BY THE COUNTY. WHERE EMBANKMENT MATERIALS DO NOT CONTAIN SUFFICIENT MOISTURE TO INSURE SATISFACTORY COMPACTION, ADDITIONAL MOISTURE SHALL BE PROVIDED BY SPRINKLING WITH WATER AS THE LAYERS OF MATERIALS ARE PLACED ON THE EMBANKMENTS. THE MATERIALS SHALL BE MOISTENED UNIFORMLY AND HARROWED OR OTHERWISE TO PRODUCE THE REQUIRED UNIFORMITY OF MOISTURE CONTENT. MATERIAL CONTAINING AN EXCESS OF MOISTURE SHALL BE DRAINED, AERATED AND OTHERWISE PERMITTED TO DRY TO THE EXTENT REQUIRED BEFORE BEING COMPACTED.
THE CONTRACTOR SHALL ROLL EACH LAYER OF MATERIALS AS IT IS PLACED ON THE EMBANKMENTS. THE AMOUNT OF ROLLING WHICH WILL BE REQUIRED WILL DEPEND UPON THE NATURE OF MATERIALS TO BE COMPACTED. SUCCEEDING LAYERS OF EMBANKMENTS SHALL NOT BE PLACED UNTIL THE LAYER BEING COMPACTED HAS BEEN COMPACTED TO 92 PERCENT OF LABORATORY DENSITY PER AASHTO T 180.

DRAINAGEWAYS AND DITCHES

ANY DRAINAGEWAYS OR DITCHES WHICH ARE ALTERED BY CONSTRUCTION OF EMBANKMENTS SHALL BE MAINTAINED IN SUCH MANNER THAT DRAINAGE IS NOT IMPEDED. ANY PONDS CREATED AT THE PERIMETER OF EMBANKMENTS WILL BE ELIMINATED EITHER BY FILLILNG WITH SUITABLE MATERIAL GRADED TO DRAIN WITH A MINIMUM SLOPE OF 5 PERCENT, OR BY CONSTRUCTION OF NEW DRAINAGEWAYS HAVING A MINIMUM BOTTOM SLOPE OF 3 PERCENT AND MAXIMUM SIDESLOPES OF 2 ½ HORIZONTAL TO 1 VERTICAL. ANY SUCH FILL OR DRAINAGEWAY SHALL BE CONSTRUCTED SUCH THAT RUNOFF WILL NOT CAUSE EROSION OF EMBANKMENTS OR SURROUNDING SOILS.

SUBGRADE PREPARATION

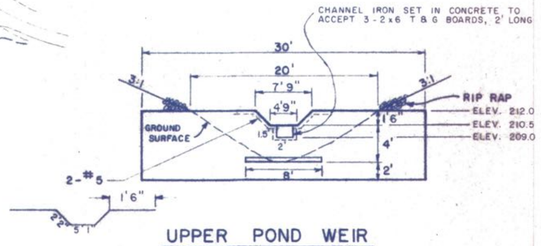
THE SUBGRADE FOR THE ROADWAY SHALL BE FINISHED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS AND SHALL BE MAINTAINED AT ALL TIMES IN SUCH CONDITION THAT IT WILL DRAIN READILY AND CORRECTLY. THE FINISHED SURFACE SHALL BE FREE OF LOOSE OR EXTRANEOUS MATERIAL.

EROSION PROTECTION

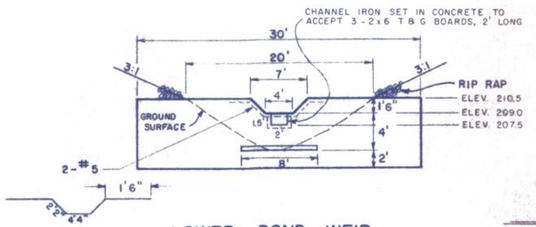
ANY TOPSOIL REMOVED FOR CUT OR FILL CONSTRUCTION SHALL BE STOCKPILED IN SITE AS DIRECTED BY THE OWNER AND REUSED ON-SITE TO RESTORE DISTURBED AREAS.
THOSE AREAS TO BE SEEDED SHALL HAVE A MINIMUM OF 6 INCHES OF TOPSOIL PLACED ON THEM PRIOR TO SEEDING.
ALL CUT AND FILL SLOPES SHALL BE COVERED BY MULCH OR PLASTIC SHEETING AS A TEMPORARY MEASURE DURING CONSTRUCTION TO PROTECT THEM FROM EROSION. THESE MEASURED ARE TO BE FOLLOWED BY PERMANENT SEEDING AFTER SITE IMPROVEMENTS ARE COMPLETED. THIS SEED MIXTURE SHALL CONSIST OF CHEWING FESCUE - 35%, ILLAHAE CREEPING FESCUE - 30%, RED CREEPING FESCUE - 25%, ASTORIA BENT - 10% AND IS TO BE APPLIED AT THE RATE OF 60 POUNDS PER ACRE. MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 POUNDS PER ACRE.

CREEK DIVERSION

THE EXISTING FLOW FROM LOST DOG CREEK SHALL BE DIVERTED AROUND THE CONSTRUCTION IN THE BASIN AREA BY MEANS OF A TEMPORARY CONTAINMENT POND AND PUMPING SYSTEM. THIS SHALL GENERALLY COMFORM TO THE DIAGRAM ON THIS SHEET. THE TEMPORARY PUMP SHALL BE OPERATED BY FLOAT SWITCHES THAT WILL AUTOMATICALLY MAINTAIN THE WATER LEVEL IN THE CONTAINMENT POND AT A MAXIMUM ELEVATION OF 211.5 FEET. THIS SYSTEM SHALL REMAIN IN PLACE UNTIL THE UTILITY AND GRADING CONSTRUCTION IS COMPLETE IN THE BASIN AREA. THE CONTRACTOR IS TO ARRANGE FOR TEMPORARY POWER TO BE RUN INTO THE PUMP LOCATION FROM OAK STREET AND IS TO HAVE THE COMPLETE DIVERSION SYSTEM IN PLACE BEFORE ANY CONSTRUCTION WITHIN THE BASIN AREA IS TO COMMENCE.



UPPER POND WEIR
N.T.S.



LOWER POND WEIR
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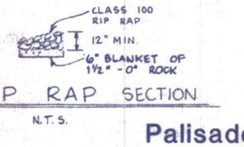

RIP RAP SECTION
N.T.S.

ROADWAY EMBANKMENTS

NATIVE MATERIAL

NATIVE MATERIAL USED FOR BACKFILLING OR FOR EMBANKMENT SHALL COME FROM EXCAVATION AT THE CONSTRUCTION SITE. NO BRUSH, ROOTS, SOD OR OTHER PERISHABLE MATERIALS SHALL BE PLACED IN EMBANKMENTS AND ALL SUCH MATERIALS HAULED TO THE EMBANKMENT SHALL BE REMOVED BY THE CONTRACTOR. CLODS OR HARD LUMPS OF EARTH HAVING MAXIMUM DIMENSIONS OF MORE THAN 8 INCHES SHALL BE BROKEN UP BEFORE OR AFTER BEING PLACED ON THE EMBANKMENTS. ALL MATERIAL USED SHALL BE CLOSE ENOUGH TO OPTIMUM MOISTURE CONTENT SO AS TO BE CAPABLE OF BEING COMPACTED TO THE REQUIRED DENSITY.

PREPARATION OF SURFACES UNDER EMBANKMENTS AND PAVEMENTS

SURFACE TREATMENT: WHERE EMBANKMENTS ARE TO BE BUILT ON SLOPING GROUND, THE SURFACE OF THE GROUND SHALL BE PREPARED TO PROVIDE A BOND, KEYING THE NEW EMBANKMENT INTO THE EXISTING BY PROVIDING AN 8' TO 10' BENCH SUITABLE FOR OPERATING SPREADING AND COMPACTION EQUIPMENT. WHERE EMBANKMENTS ARE TO BE PLACED, THE ORIGINAL GROUND SURFACE SHALL BE THOROUGHLY PLOWED OR STEPPED AS TO INSURE PROPER BONDING OF THE NEW AND EXISTING MATERIAL.
WHERE EXISTING BANK MATERIAL IS EXCAVATED IN ORDER TO CREATE A LEVEL BENCH OF SUFFICIENT WIDTH TO OPERATE EQUIPMENT UPON, THE EXCAVATED MATERIAL MAY BE UTILIZED FOR EMBANKMENT CONSTRUCTION IF IT MEETS THE REQUIREMENTS OF THIS SECTION.
UNSUITABLE EXCAVATION AND BACKFILL: PROOFROLL ALL AREAS TO RECEIVE EMBANKMENT BY MAKING ONE OR TWO PASSES WITH SUITABLE EQUIPMENT. EXCAVATE SOFT OR SPONGY AREAS DEFINED BY PROOFROLLING AS DIRECTED BY THE ENGINEER. IN ISOLATED OR CONFINED AREAS A BACKHOE OR SIMILAR EQUIPMENT MAY BE REQUIRED.
PLACE BACKFILL MATERIAL MEETING THE REQUIREMENTS OF DIVISION TWO OF THE LAKE OSWEGO STANDARD SPECIFICATIONS IMMEDIATELY AFTER EXCAVATING IN ORDER TO PREVENT INTRUSION OF GROUNDWATER INTO THE EXCAVATION. PLACE BACKFILL MATERIAL IN MAXIMUM 6-INCH LOOSE LIFTS. COMPACT EACH LIFT WITH A PNEUMATIC OR SHEEPSFOOT ROLLER, OR IN CONFINED AREAS WITH A "JUMPING JACK" TYPE MECHANICAL TAMPER, TO AT LEAST 92 PERCENT OF LABORATORY DENSITY PER AASHTO T180.

EMBANKMENTS CONSTRUCTED WITH NATIVE MATERIAL

COBBLES OR ROCKS MORE THAN 8 INCHES IN SIZE SHALL NOT BE PLACED IN EMBANKMENTS. THE CONTRACTOR MAY ELECT TO REMOVE THE OVERSIZE MATERIAL FROM EMBANKMENTS BY RAKING OR OTHER APPROVED METHODS.
ALL MATERIAL SHALL BE DEPOSITED IN EMBANKMENTS SO THAT ANY LARGE MATERIALS, ROCK, COBBLES, AND GRAVEL WILL BE WELL DISTRIBUTED THROUGH THE OTHER MATERIALS AND NOT NESTED IN ANY POSITION WITHIN OR UNDER THE EMBANKMENTS.
EMBANKMENTS FORMED OF EXCAVATED ROCK SHALL BE BUILT CAREFULLY SO THAT THE LARGE ROCK WILL BE WELL DISTRIBUTED AND THE UNFILLED SPACES SHALL BE FILLED COMPLETELY WITH SMALLER ROCK SO AS TO FORM A DENSE, SOLID EMBANKMENT. WHERE DIRECTED, ROCK SHALL BE DEPOSITED IN THE OUTER PORTIONS OF EMBANKMENTS TO PROTECT THE SLOPES AGAINST EROSION.

EMBANKMENTS SHALL BE PLACED IN CONTINUOUS, APPROXIMATELY HORIZONTAL LAYERS 8 TO 10 INCHES IN LOOSE THICKNESS PRIOR TO BEING COMPACTED. THE LAYERS SHALL BE CARRIED ACROSS THE ENTIRE WIDTH AND LENGTH OF THE EMBANKMENTS SO THAT THE EMBANKMENT IS RAISED IN A UNIFORM MANNER.
DURING THE PROCESS OF EMBANKMENT CONSTRUCTION, BOTH CUT AND FILL SURFACES SHALL BE MAINTAINED IN SUCH CONDITION THAT THEY WILL BE DRAINED AT ALL TIMES. PRIOR TO FORECASTED RAIN PERIODS, CONTRACTOR SHALL GRADE AND SEAL THE SURFACE OF ALL CUT AND FILL AREAS SO POSITIVE DRAINAGE OCCURS AND MOISTURE DAMAGE IS MINIMIZED. TEMPORARY DRAINS AND DRAINAGE DITCHES SHALL BE INSTALLED AS REQUIRED TO INTERCEPT OR DIRECT WATER WHICH MAY AFFECT THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DAMAGE DUE TO DRAINAGE WHETHER IT IS EROSION, SATURATED SUBGRADE OR OTHER CAUSED BY LACK OF MAINTAINING PROPER GRADING DURING CONSTRUCTION.
THE SLOPE OF EMBANKMENTS SHALL BE REASONABLY TRUE TO LINE AND GRADE, AND ALL ISOLATED PROJECTIONS OF MORE THAN 6 INCHES OUTSIDE OF THE NEAT LINES OF SLOPES SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
CUT SLOPES SHALL NOT EXCEED 1 1/2H:1V AND FILL SLOPES SHALL NOT EXCEED 2H:1V.

GRADING WITHIN THE BASIN AREA

ALL GRADING WITHIN THE POND AREA SHALL CONFORM TO THE LANDSCAPE ARCHITECTS PLAN SHOWING FINISHED CONTOURS AND SIDE SLOPES. ANY FILL MATERIAL PLACED WITHIN THIS AREA SHALL BE CLAY SOIL HAVING A PERMEBILITY EQUAL TO THE EXISTING SOIL WITHIN THE BASIN. THIS MATERIAL IS TO HAVE A MOISTURE CONTENT WITHIN 2% OF ITS OPTIMUM WATER CONTENT AS DEFINED BY COMPACTION TEST AASHTO T180 AND SHALL HAVE NO PARTICLE SIZE EXCEEDING 1 INCH.
FILL SHALL BE PLACED IN NO GREATER THAN 6 INCH LOOSE LIFTS AND SHALL BE COMPACTED TO 92% OF THE AASHTO T180 MAXIMUM DRY DENSITY.
PRIOR TO THE PLACEMENT OF EACH LIFT OF FILL, THE FILL SURFACE SHALL BE ROUGHENED WITH A RAKE TO MINIMIZE THE POTENTIAL FOR A HIGHLY PERMEABLE SEAM WITHIN THE BACKFILL MATERIAL.

FOR APPROVALS ONLY
"NOT FOR CONSTRUCTION"

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 15, 1970
LEE A. BRIGGS
12,148

Palisades Lake Estates

			DRAWN BJW	DESIGNED LAB	CHECKED
			SCALE AS NOTED	DATE MAY, 1985	
6/27/85	1	REVISED PER CITY OF L.O. ESD MTG.	FILE 84-2109-1320		
DATE	NO.	REVISION			

COMPASS CORPORATION
ENGINEERING – SURVEYING – PLANNING
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(503) 222-4652
(503) 653-9093

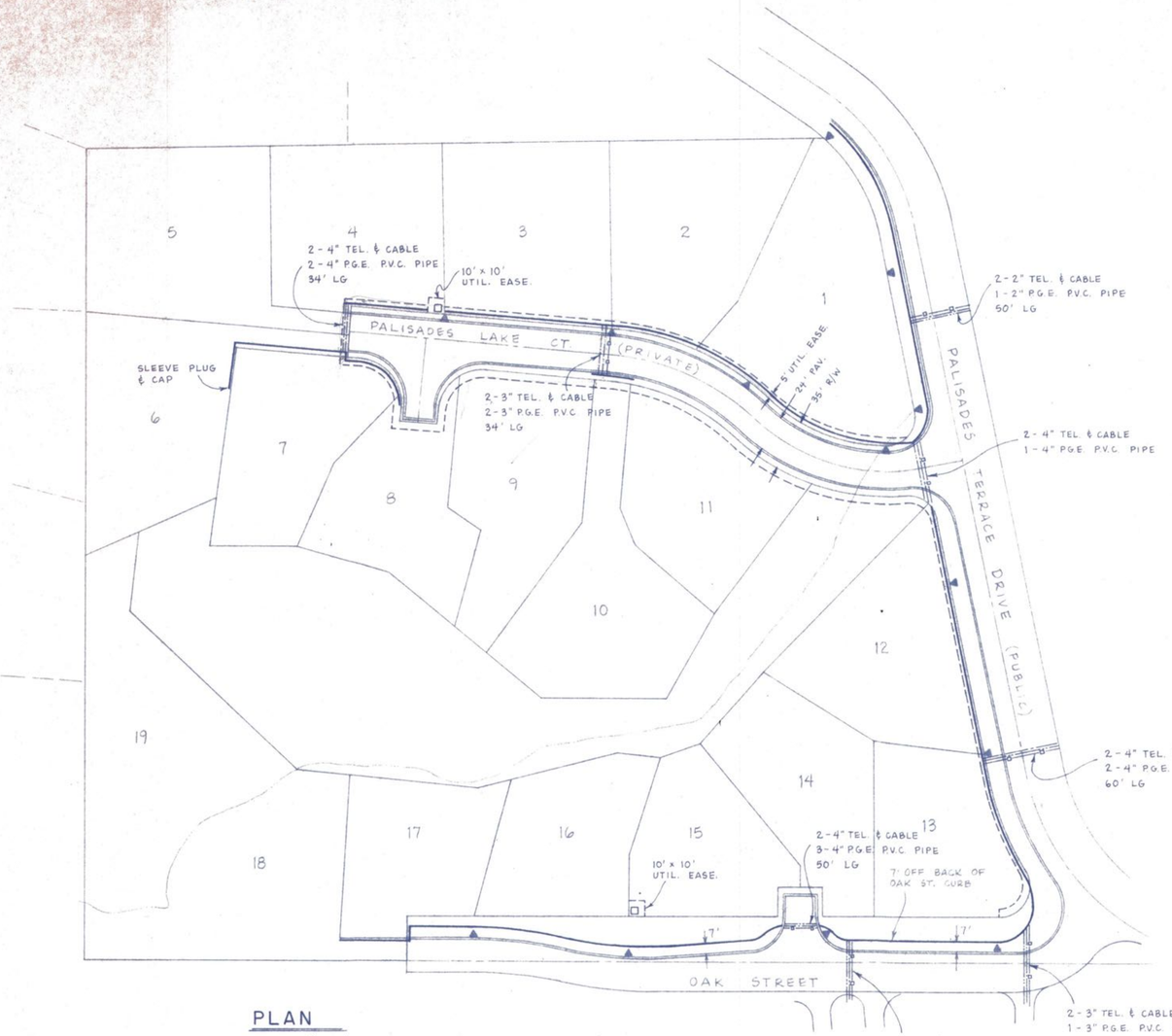
Lakeview Realty Group, Inc.
18517 S.W. Bryant Road
Lake Oswego, Oregon 97034

JUN 28 1985

Grading and Erosion Control Plan

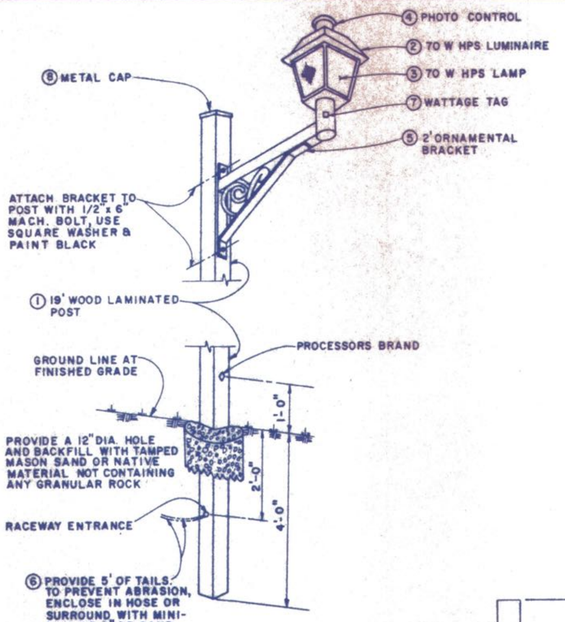
5/9

Willamette Print & Blueprint Company



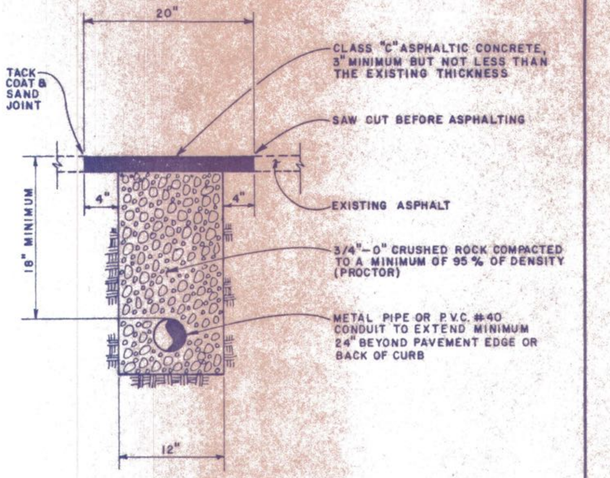
PLAN

SCALE: 1" = 50'



PALISADES TERRACE DR.
OAK STREET
TOWN & COUNTRY
RESIDENTIAL STREET LIGHTS

N.T.S.

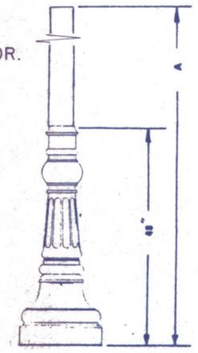


PAVEMENT CROSSING DETAIL

N.T.S.

LEGEND

- ▲ STREET LIGHT LOCATION
- ■ P.G.E. TRANSFORMER
- —o—o— CABLE T.V. CROSSING
- —·—·— TELEPHONE CROSSING
- —··—··— P.G.E. CROSSING
- ——— UTILITY TRENCH LOCATION

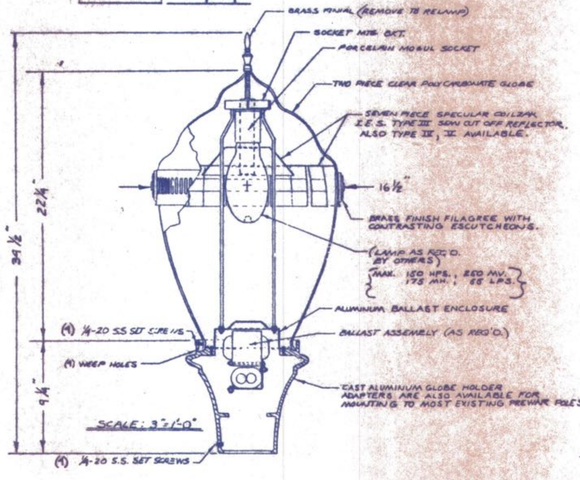


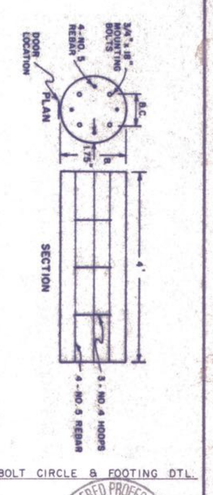
Mariner Series

CATALOG NUMBER	A*	B*	ANCHOR BOLTS	B.C.*	SHP. WT.
MA08	8	18½	¾ x 18	15	84
MA10	10	18½	¾ x 18	15	90
MA12	12	18½	¾ x 18	15	102
MA14	14	18½	¾ x 18	15	110
→ MA16	16	18½	¾ x 18	15	118

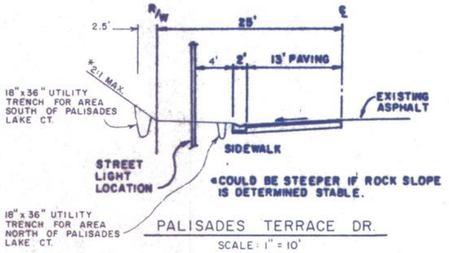
GENERAL SPECIFICATIONS:

HOUSING
Base shall be corrosion resistant cast aluminum with a minimum wall thickness of .200". It shall have 16 equally spaced flutes each being 11" long and 2" wide. Internal pole to be stainless extruded aluminum 6063-T52 alloy, 9" diameter.
Galvanized anchor bolts to be located internally, spaced on a 15" bolt circle. A 6" x 4" flush door shall be cast into base for access and secured by tamperproof hardware.
Pole and base to be thoroughly cleaned with acid etch primer and passivator. A poly butyl resin primer shall be coated over all exposed surfaces. All surfaces shall be coated with a linear aliphatic polyurethane plastic, color as specified.



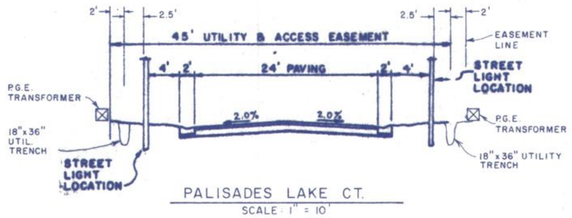


BOLT CIRCLE & FOOTING DTL.



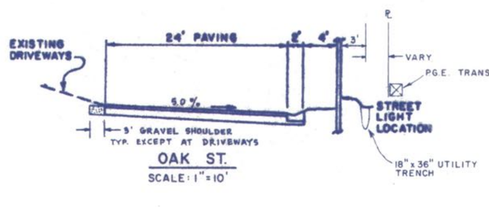
PALISADES TERRACE DR.

SCALE: 1" = 10'



PALISADES LAKE CT.

SCALE: 1" = 10'



OAK ST.

SCALE: 1" = 10'

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Palisades Lake Estates

REGISTERED PROFESSIONAL ENGINEER 12,146 OREGON JULY 15, 1977 LEE A. BRIGGS

DATE	NO.	REVISION		

DRAWN | DESIGNED L.A.B. | CHECKED

SCALE AS NOTED | DATE MAY, 1985

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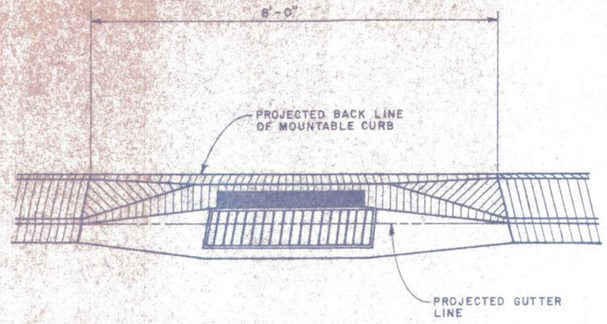
Lakeview Realty Group, Inc.
18517 S.W. Bryant
Lake Oswego, Oregon 97034

Street Light and Utility Location Plan

JUN 28 1985

6/9

Willamette Print & Blueprint Company

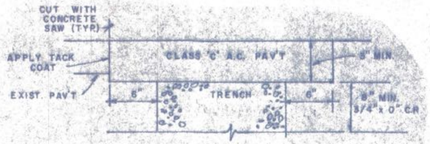


FRONT VIEW

NOTES:

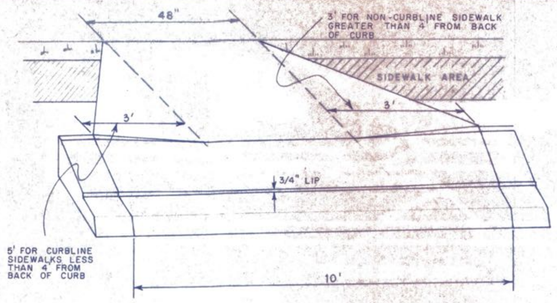
1. MAINTAIN TOP OF CURB AT STANDARD ELEVATION. SET LOWER SIDE OF GRATE 7 1/2" BELOW TOP OF CURB.
2. CONSTRUCT CATCH BASIN PER DRAWINGS B-5.01A & B-5.01B.

MOUNTABLE CURB TRANSITION TO SIDE INLET CATCH BASIN

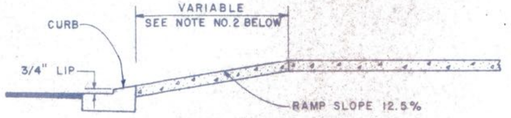


PAVEMENT RESTORATION

N.T.S.



FRONT VIEW

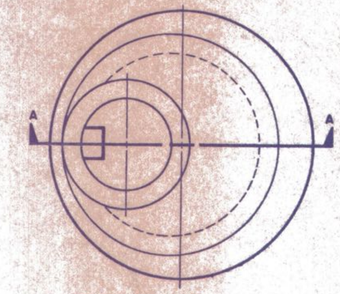


PROFILE VIEW

NOTES:

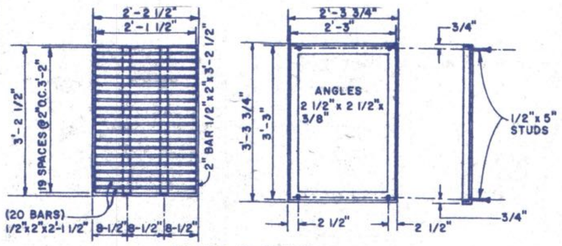
1. ALL RAMPS TO BE 4" THICK CONCRETE AND SHALL MEET A 3,000 P.S.I. COMPRESSION STRENGTH IN 28 DAYS.
2. RAMP LENGTH: a.) FOR CURB LINE SIDEWALKS AND SIDEWALKS UP TO 5' FROM BACK OF CURB, RAMPS SHALL SLOPE TO BACK OF SIDEWALK. b.) FOR SIDEWALK MORE THAN 5' FROM BACK OF CURB, RAMPS SHALL SLOPE AT 12.5% MAXIMUM FOR 5', THEN AT 2% TO SIDEWALK.

STANDARD BICYCLE & WHEELCHAIR RAMP



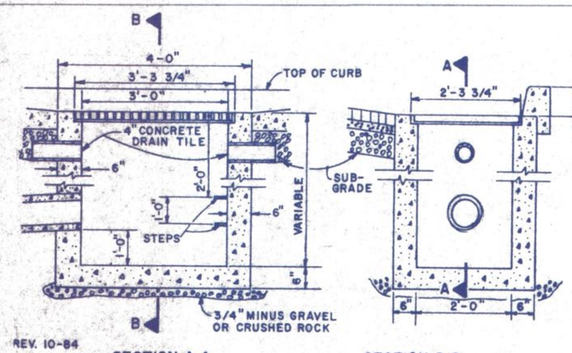
TOP VIEW

NOTE: MANHOLES CONFORM TO ASTM C-478.



FRAME & GRATE

NOTES: 1. MATERIAL TO BE NEW STRUCTURAL STEEL, A.S.T.M. A-7, A-36 OR A-373.
2. ADD TRANSVERSE STRAPPING WHERE THE EXPECTED TRAVEL PATH OF BICYCLES & WHEEL CHAIRS IS PARALLEL TO GRATING BARS (I.E. CROSSWALKS AND ADJACENT TO CURB RAMPS).



REV. 10-84

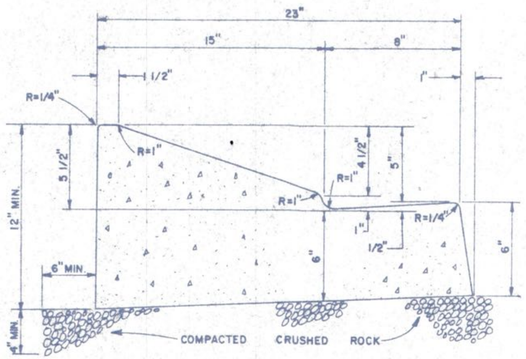
SECTION A-A SECTION B-B

NOTES:

1. ALL PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. C-478.
2. ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3000 P.S.I. AND 2" TO 4" SLUMP.
3. STEEL TO BE NEW STRUCTURAL STEEL, A.S.T.M. A-7, A-36 OR A-373.
4. STEPS ARE REQ'D WHEN CATCH BASIN DEPTH IS GREATER THAN 3'-0".

OVERSIZE CATCH BASIN

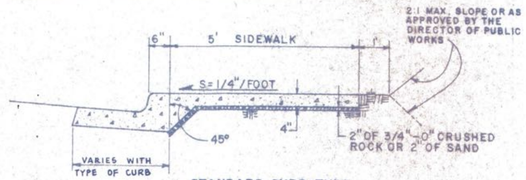
NTS



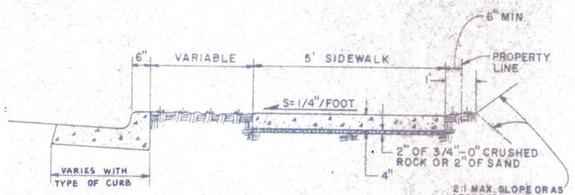
NOTES:

1. CONCRETE SHALL ATTAIN 3000 P.S.I. COMPRESSION STRENGTH IN 28 DAYS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT ALL POINTS OF CURVATURE AND AT MAXIMUM INTERVALS OF 20 FEET.

MOUNTABLE CURB DETAIL



STANDARD CURB TYPE

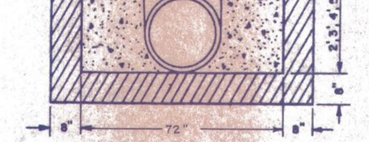


STANDARD PROPERTY LINE TYPE

NOTES:

1. BEGIN SLOPE AT BACK OF CURB.
2. RESIDENTIAL CONCRETE DEPTH: DRIVEWAY SECTION = 6" & STANDARD SIDEWALK = 4".
3. COMMERCIAL CONCRETE DEPTH: DRIVEWAY SECTION = 6" & STANDARD SIDEWALK = 4".
4. KNIFE JOINTS SHALL BE PLACED AT ALL CHANGES OF DIRECTION AND POINTS OF CURVATURE AND AT A MAX. SPACING OF 20 FT.
5. CONCRETE USED FOR SIDEWALKS SHALL MEET A 3,000 P.S.I. COMPRESSION STRENGTH IN 28 DAYS.
6. ALL SIDEWALKS SHALL BE LOCATED TO AVOID EXISTING AND PROPOSED INTERFERING STRUCTURES; SUCH AS MAILBOXES, STREET LIGHTS, FIRE HYDRANTS, UTILITY RISERS, TREES, ETC.

TYPICAL SIDEWALK DETAIL



SECTION A-A

OVERSIZE MANHOLE

SCALE: 1" = 20'

Palisades Lake Estates

CITY OF LAKE OSWEGO
STREET DETAILS

JUN 28 1985

7
9

		DRAWN	DESIGNED	CHECKED
6/27/85	1	REVISED PER CITY OF L.O. REQUIREMENTS	SCALE N.T.S.	DATE 7-84
DATE	NO.	REVISION	FILE 84-2109-1320	

COMPASS CORPORATION
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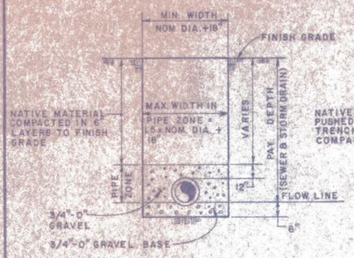
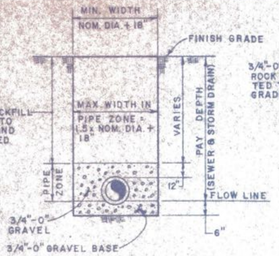


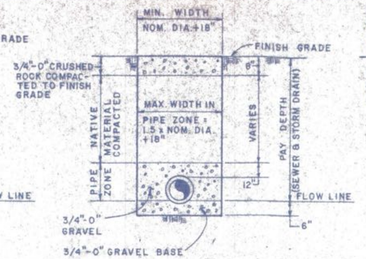
CLASS 1 BACKFILL

(GENERALLY LAWN & PLANTED AREAS)



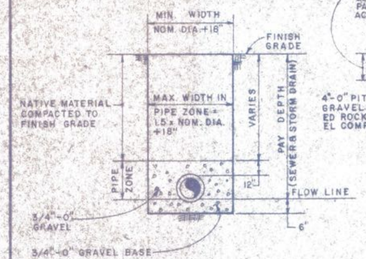
CLASS 3 BACKFILL

(GENERALLY UNIMPROVED AREAS)



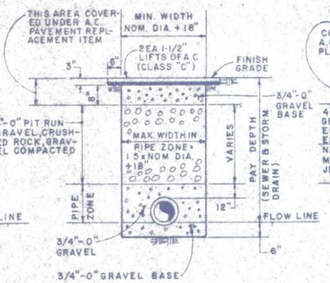
CLASS 5 BACKFILL

(GENERALLY ROADWAY SHOULDER OR OTHER GRAVELED AREAS)



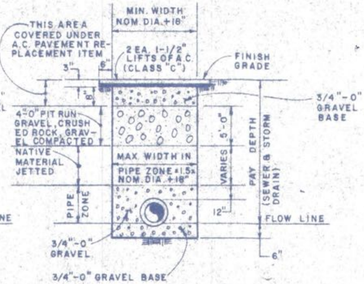
CLASS 2 BACKFILL

(GENERALLY LAWN & UNPLANTED AREAS)



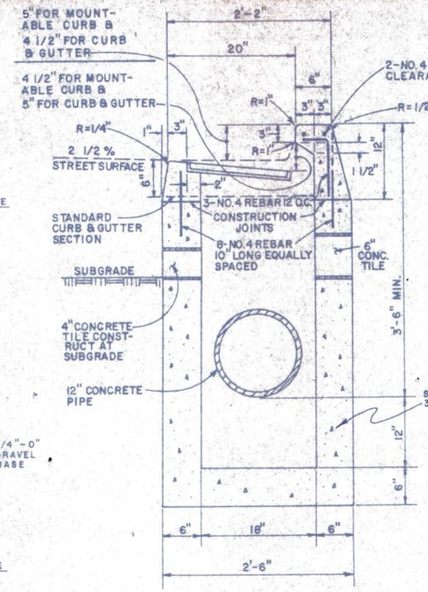
CLASS 4 BACKFILL

(GENERALLY PAVED AREAS)



CLASS 6 BACKFILL

(GENERALLY PAVED AREAS)



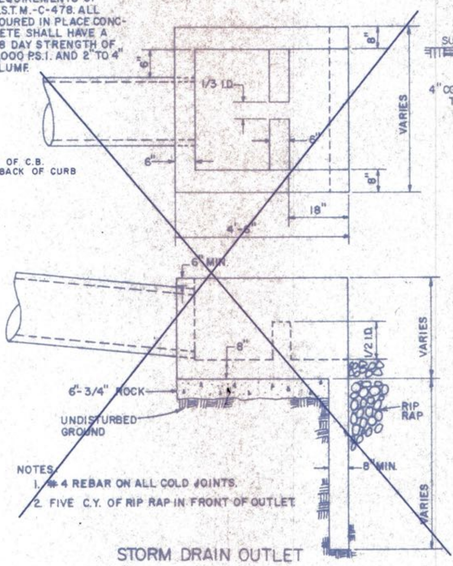
SIDE

SIDE INLET CATCH BASIN

DETAIL "A"

NOTES:

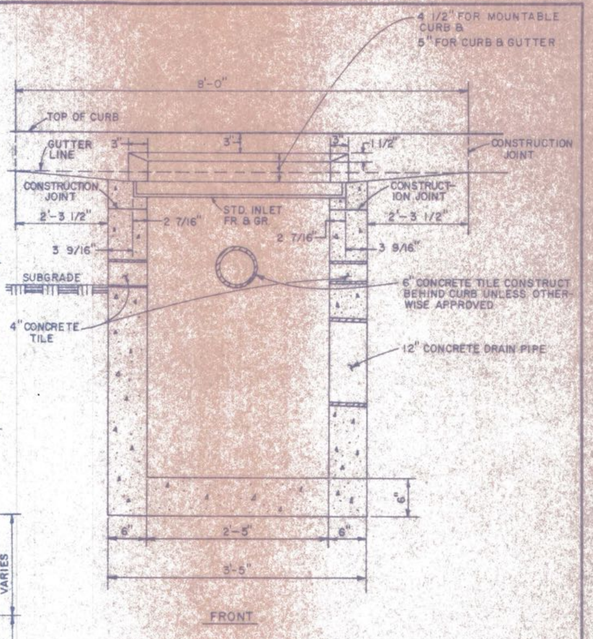
1. SET LOW SIDE OF GRATE 7 1/2" BELOW TOP OF CURB.
2. ALL PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M.-C-478. ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I. AND 2" TO 4" SLUMP.



NOTES:

1. #4 REBAR ON ALL COLD JOINTS.
2. FIVE C.Y. OF RIP RAP IN FRONT OF OUTLET

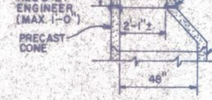
STORM DRAIN OUTLET



FRONT

SIDE INLET CATCH BASIN

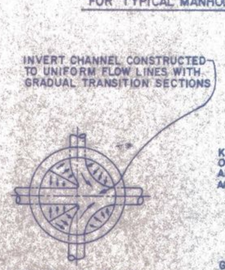
DETAIL "B"



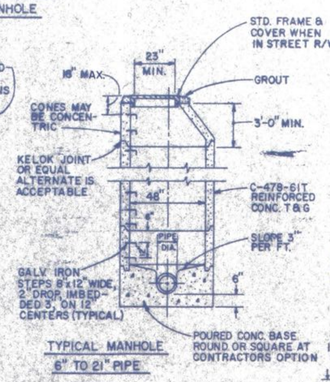
PRECAST RING EXTENSION

FOR TYPICAL MANHOLE





GENERAL PLAN OF CHANNEL INTERSECTION



TYPICAL MANHOLE

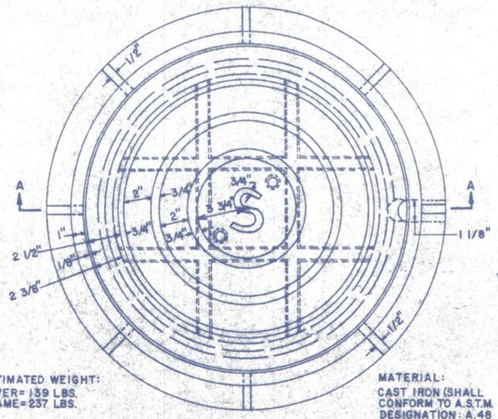
6" TO 21" PIPE

NOTES:

1. ALL PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M.-C-478. ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I. AND 2" TO 4" SLUMP.
2. MATERIAL: 3/4" DIA. STRUCTURAL STEEL CONFORMING TO A.S.T.M. A-36 AND GALVANIZED IN CONFORMANCE TO A.S.T.M. A-123, FOR STEPS.

STANDARD MANHOLE

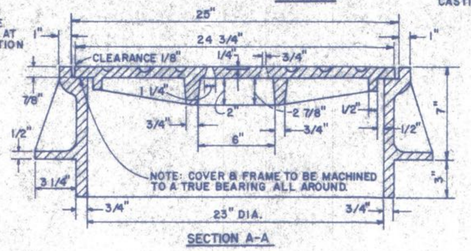
DETAILS



TOP VIEW

ESTIMATED WEIGHT: COVER= 139 LBS. FRAME=237 LBS.

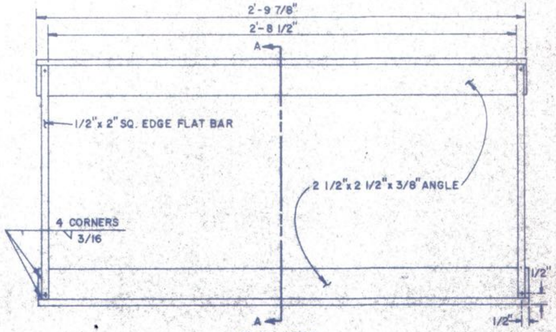
MATERIAL: CAST IRON (SHALL CONFORM TO A.S.T.M. DESIGNATION: A.48 FOR GREY IRON CASTINGS.



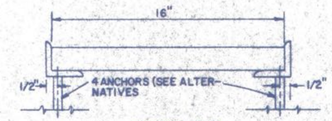
SECTION A-A

STANDARD MANHOLE

FRAME & COVER



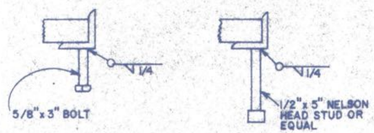
PLAN VIEW



SECTION A-A

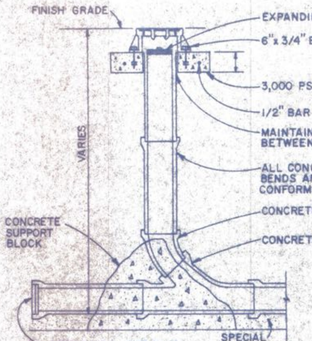
NOTE:

1. MATERIAL TO BE NEW STRUCTURAL STEEL, A.S.T.M. A-7, A-36 OR A-373.



ALTERNATE ANCHORS

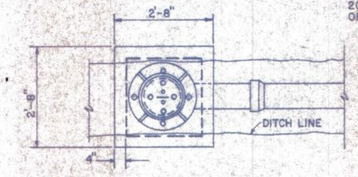
CATCH BASIN FRAME



SECTION

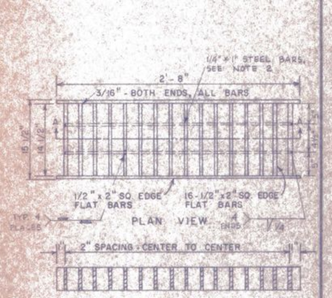
NOTES:

1. CLEANOUT FLANGE TO BE BOLTED AND GROUTED IN PLACE.
2. PIPE JOINTS AND FLEXIBLE RUBBER GASKETS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS C443-60T.
3. CAST IRON FRAME AND COVER SHALL BE VALLEY IRON & STEEL CO. NO'S. 202 FOR 6" & 203 FOR 8" OR EQUAL.



PLAN

SANITARY SEWER CLEANOUT



NOTE 1: MATERIAL TO BE NEW STRUCTURAL STEEL, ASTM A-7, A-36 OR A-373.

2. ADD TRANSVERSE STIFFING WHERE THE SPACING BETWEEN BEARING BARS EXCEEDS 4" (STIFFENING BARS TO BE DIAGONALS ADJACENT TO CURB RAMPS).

CATCH BASIN GRATING

Palisades Lake Estates

DATE	NO.	REVISION	DRAWN	DESIGNED	CHECKED
6/27/85	1	REVISED PER CITY OF LO REQUIREMENTS	SCALE N.T.S.	DATE 7-84	
			FILE 84-2109-1320		

COMPASS CORPORATION

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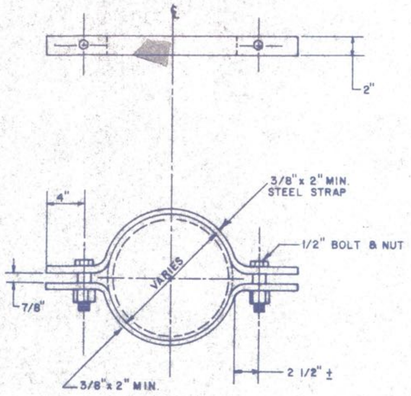
Lake Oswego, Oregon 97034

CITY OF LAKE OSWEGO
SANITARY SEWER AND
STORM DRAIN DETAILS

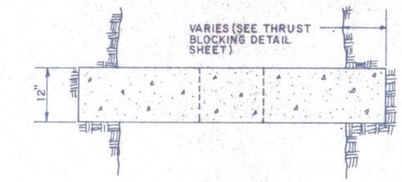
JUN 28 1985

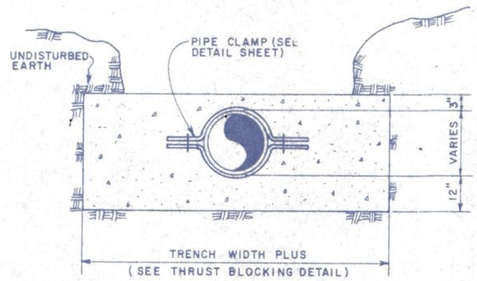
8/9

Willamette Print & Blueprint Company



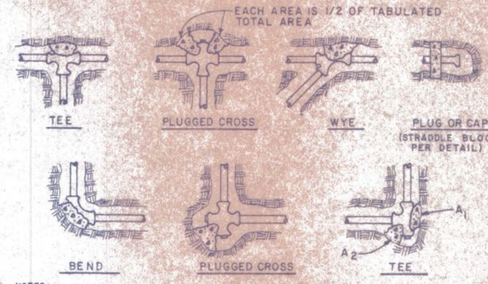
TYPICAL STRADDLE BLOCK PIPE CLAMP DETAIL





NOTE: ALL POURED IN PLACE CONCRETE SHALL CONFORM TO REQUIREMENTS OF ASTM-C-478, HAVE A 28 DAY STRENGTH OF 3,000 P.S.I AND 2" TO 4" SLUMP.

TYPICAL CONCRETE STRADDLE BLOCK DETAIL

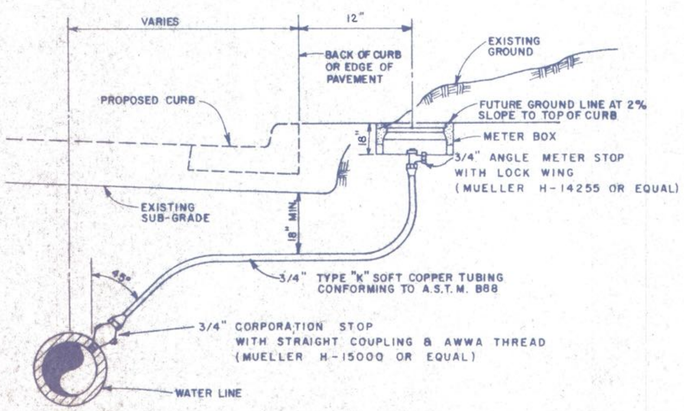


NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUSTED IF NECESSARY, TO CONFORM TO THE TEST PROCEDURE (S) AND ALLOWABLE SOIL BEARING STRESS (ES) STATED THE SPECIAL SPECIFICATIONS.
4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.
5. BUILDING PAPER OR VISQUINE SHALL BE PLACED BETWEEN CONCRETE AND FITTINGS.
6. ALL POURED IN PLACE CONCRETE SHALL HAVE A (28) DAY STRENGTH OF 3,000 P.S.I. AND 2" TO 4" SLUMP.
7. BELOW BEARING AREAS BASED ON TEST PRESSURE OF 150 P.S.I. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA= (TEST PRESSURE / 150) x (2,000/SOIL BEARING STRESS) x (TABLE VALUE): BEARING AREAS IN SQUARE FEET.

FITTING SIZE (IN.)	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN A_1	TEE PLUGGED ON RUN A_2	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.0	1.4	1.9	1.4	1.0	—	—
6	2.0	3.0	4.3	3.0	1.6	1.0	—
8	3.6	5.3	7.6	5.4	2.9	1.8	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.5	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

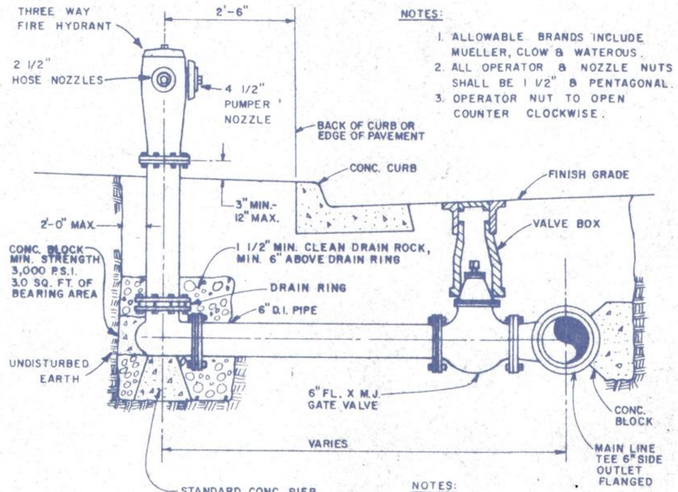
THRUST BLOCKING DETAILS



NOTES:

1. ALLOWABLE BRANDS FOR CORPORATION & ANGLE METER STOPS INCLUDE MUELLER, HAYS, FORD & JONES.
2. METER BOXES SHALL BE BROOKS PRODUCTS COMPANY # 4 OR METER BOX EQUIPMENT COMPANY # 1.
3. METER BOX TO BE INSTALLED AT SAME TIME AS SERVICE LINE INSTALLATION.

TYPICAL WATER SERVICE CONNECTION DETAIL



NOTES:

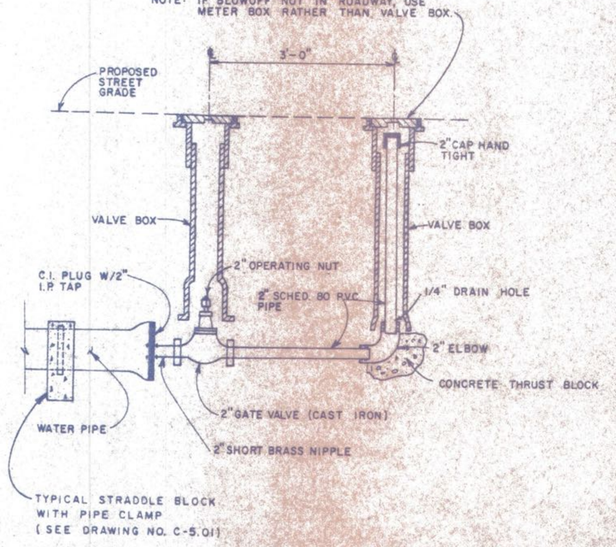
1. ALLOWABLE BRANDS INCLUDE MUELLER, CLOW & WATEROUS.
2. ALL OPERATOR & NOZZLE NUTS SHALL BE 1 1/2" & PENTAGONAL.
3. OPERATOR NUT TO OPEN COUNTER CLOCKWISE.

NOTES:

1. HYDRANT ASSEMBLY TO BE RODDED WITH TWO 5/8" RODS WHEN INSTALLED WITHIN FILL AREAS.
2. JOINT RESTRAINT TO BE WITH FLANGED CONNECTION, APPROVED JOINT RESTRAINING GLAND OR 3/4" DIAMETER GALVANIZED RODS.

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: IF BLOWOFF NOT IN ROADWAY, USE METER BOX RATHER THAN VALVE BOX.



TYPICAL BLOWOFF

Palisades Lake Estates

DRAWN	DESIGNED	CHECKED
SCALE N.T.S.	DATE 7-84	
FILE 84-2109-1520		

DATE | NO. | REVISION

COMPASS CORPORATION
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Lake Oswego, Oregon 97034

JUN 28 1985

CITY OF LAKE OSWEGO
STANDARD WATERLINE DETAILS

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PALISADES LAKE ESTATES

A REPLAT OF
TRACT 2 AND A PORTION OF TRACT 1, "OSWEGO HEIGHTS"
S.W. 1/4, SECTION 10, T. 2 S., R. 1 E., W.M.
CLACKAMAS COUNTY, OREGON
CITY OF LAKE OSWEGO
SHEET 1 OF 2

COMPASS CORP.
MILWAUKIE, OREGON

JULY, 1985
SCALE: 1"= 50'

DRAWN BY: M.L. JONES

NOTES
1. * ACCESS PROHIBITED FROM LOTS 1 & 13 ONTO PALISADES TERRACE DRIVE.
2. SEE P.S. 20348 (c) FOR BOUNDARY SURVEY.



CERTIFICATE

I, WENDELL CLOEPFIL, REGISTERED PROFESSIONAL LAND SURVEYOR, BEING FIRST DULY SWORN, DEPOSE AND SAY THAT "PALISADES LAKE ESTATES" SUBDIVISION (BEING A REPLAT OF TRACT 2 AND A PORTION OF TRACT 1 "OSWEGO HEIGHTS" A PLAT OF RECORD IN CLACKAMAS COUNTY, OREGON) SITUATED IN THE S.W. 1/4, SECTION 10, T. 2 S., R. 1 E., W.M., CITY OF LAKE OSWEGO, CLACKAMAS COUNTY, OREGON WAS CORRECTLY SURVEYED AND MARKED WITH PROPER MONUMENTS AS REPRESENTED IN THE ANNEXED MAP AND THAT FOR THE INITIAL POINT OF SAID SURVEY A 2"x 36" LONG GALVANIZED IRON PIPE WAS DRIVEN 6 INCHES BELOW THE SURFACE OF THE GROUND OVER A FOUND 3/4" IRON PIPE AT THE NORTHEAST CORNER OF LOT 13 "PALISADES TERRACE", A PLAT OF RECORD IN CLACKAMAS COUNTY, OREGON, SAID INITIAL POINT IS FURTHER DESCRIBED AS BEING LOCATED S. 88°52'16"W., 442.15 FEET FROM A FOUND 5/8" IRON ROD AT THE NORTH-EAST CORNER TRACT 2 "OSWEGO HEIGHTS"; THENCE ALONG THE SOUTH LINE OF LOTS 12 & 1, "PALISADES TERRACE" N. 88°52'16"E., 442.15 FEET TO A FOUND 5/8" IRON ROD; THENCE CONTINUING ALONG THE SOUTH LINE OF LOT 1, "PALISADES TERRACE" S. 89°37'16"E., 57.65 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF PALISADES TERRACE DRIVE (50' R/W); THENCE ALONG SAID WEST RIGHT-OF-WAY LINE OF PALISADES TERRACE DRIVE 75.42 FEET ALONG THE ARC OF A 119.61 FOOT RADIUS CURVE CONCAVE TO THE SOUTHWEST, THROUGH A CENTRAL ANGLE OF 36°07'31" (LONG CHORD BEARS S. 29°58'35"E., 74.17 FEET); THENCE S. 11°54'50"E., 375.66 FEET; THENCE 106.03 FEET ALONG THE ARC OF A 184.87 FOOT RADIUS CURVE, CONCAVE TO THE NORTHEAST THROUGH A CENTRAL ANGLE OF 32°51'41" (LONG CHORD BEARS S. 28°20'38"E., 104.58 FEET) TO A POINT ON THE NORTH LINE OF OAK STREET; THENCE ALONG THE NORTH LINE OF OAK STREET S. 89°51'07"W., 443.25 FEET; THENCE S. 00°08'53"E., 30.00 FEET TO THE CENTERLINE OF SAID OAK STREET; THENCE ALONG SAID CENTERLINE S. 89°51'07"W., 218.96 FEET TO A 5/8" IRON ROD FOUND AT THE SOUTHEAST CORNER OF SAID "PALISADES TERRACE" PLAT; THENCE ALONG THE EAST LINE OF SAID "PALISADES TERRACE" N. 00°11'35"W., 547.25 FEET TO THE INITIAL POINT, CONTAINING 7.08 ACRES, MORE OR LESS, AND THAT POST-MONUMENTATION OF THE INTERIOR CORNERS WILL BE COMPLETED WITHIN ONE YEAR OF THE RECORDING DATE IN COMPLIANCE WITH ORS 92.070 (2).

SUBSCRIBED AND SWORN TO BEFORE ME THIS 13th DAY OF September, 1985.

Wanda M. Kuppler
WANDA M. KUPPLER
NOTARY PUBLIC OREGON
My Commission Expires 4/20/86

REGISTERED PROFESSIONAL LAND SURVEYOR
Wendell Cloepfil
OREGON
JULY 17, 1970
WENDELL CLOEPFIL
922

THIS IS A TRUE COPY OF THE ORIGINAL PLAT OF "PALISADES LAKE ESTATES". WC

LEGEND

- ○ DENOTES SET 5/8"x 30" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." UNLESS OTHERWISE NOTED.
- ● DENOTES FOUND 5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." UNLESS OTHERWISE NOTED.
- ✗ DENOTES 5/8" x 30" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." TO BE POST-MONUMENTED.
- X DENOTES SET BRASS SCREW IN STONE (POST-MONUMENTED)
- (40') OPEN SPACE BUFFER ZONE DIMENSIONS SHOWN IN PARENTHESES.
- ..... OPEN SPACE BUFFER ZONE BOUNDARY.
- ⊙ DENOTES 5/8" x 30" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "COMPASS CORP." REFERENCE MONUMENT SET ON PROPERTY LINE AT DISTANCE INDICATED FROM INACCESSIBLE CORNER.

CURVE DATA

NO.	DELTA	LENGTH	RADIUS	LONG CHORD
1	36°07'31"	75.42'	119.61'	74.17'
2	102°10'37"	35.67'	20.00'	31.13'
3	42°22'13"	85.04'	115.00'	83.12'
4	19°43'15"	61.95'	180.00'	61.65'
5	18°10'45"	57.11'	180.00'	56.87'
6	92°46'00"	16.19'	10.00'	14.48'
7	87°14'00"	30.45'	20.00'	27.59'
8	73°05'42"	38.27'	30.00'	35.73'
9	16°54'18"	8.85'	30.00'	8.82'
10	53°07'58"	27.82'	30.00'	26.83'
11	36°52'02"	19.30'	30.00'	18.97'
12	5°56'16"	15.03'	145.00'	15.02'
13	31°57'44"	80.89'	145.00'	79.84'
14	23°16'10"	60.92'	150.00'	60.50'
15	24°30'30"	64.16'	150.00'	63.67'
16	45°13'09"	15.78'	20.00'	15.38'
17	38°00'41"	13.27'	20.00'	13.03'
18	37°54'00"	107.49'	162.50'	105.54'
19	54°32'50"	126.14'	132.50'	121.43'
20	20°39'55"	66.68'	184.87'	66.32'
21	32°51'38"	106.03'	184.87'	104.58'
22	122°25'52"	42.74'	20.00'	35.06'

MAR 31 1986

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