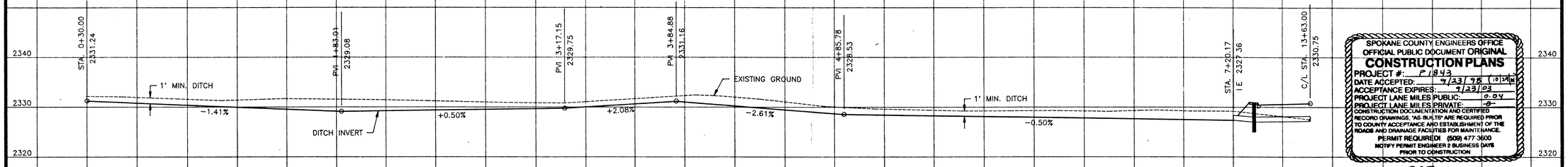
INTERCEPTION DITCH PROFILE



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P 1843
DATE ACCEPTED: 9/23/98 10/29/98
ACCEPTANCE EXPIRES: 9/23/03
PROJECT LANE MILES PUBLIC: 0.04
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

LEGEND

- PROPOSED DITCH & FLOW DIRECTION
- PROPOSED CITY OF SPOKANE TYPE 2 CATCH BASIN
- PROPOSED STORM MANHOLE/TYPE 0 CATCH BASIN
- PROPOSED CITY OF SPOKANE TYPE 00 CATCH BASIN
- 12"S.D. — PROPOSED 12" DIA. STORM DRAIN
- PROPOSED CURB AND SIDEWALK
- D.E. — DRAINAGE EASEMENT
- 2329.6 — POND CONTOUR, ELEVATION AS SHOWN
- PROPOSED 6 FT. FENCE PER DETAIL

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P 1843
DATE ACCEPTED: 6/10/03

EROSION & SEDIMENT CONTROL NOTES:

1) EROSION/SEDIMENT CONTROL (ESC) HAS BEEN REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.

2) THE CONTRACTOR SHALL MAINTAIN THE ESC FACILITIES DURING WET WEATHER CONDITIONS TO ASSURE THAT THE FACILITIES ARE WORKING AS PLANNED AND THAT EROSION OF SOILS IS MINIMIZED. THE CONTRACTOR SHALL USE MEASURES AS NECESSARY DURING WET WEATHER CONDITIONS TO MINIMIZE TRACKING OF SOILS ONTO EXISTING STREETS. THE ESC MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES.

3) THE EROSION CONTROL PLANS AND SPECIFICATIONS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE ACTUAL SITE CONDITIONS AND FACTORS WHICH MAY CONTRIBUTE TO SOIL EROSION. THE CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL MEASURES WHICH ARE NECESSARY TO ALLEVIATE THE POTENTIAL FOR SOIL EROSION.

4) INSTALL A HI-FLOW SILTSACK, MADE BY ACF ENVIRONMENTAL OR APPROVED EQUAL, IN EACH CATCH BASIN. THE SILTSACKS SHALL REMAIN IN THE CATCH BASINS UNTIL CONSTRUCTION OF ALL IMPROVEMENTS IS COMPLETE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

THE MAINTENANCE SCHEDULE SHALL BE AS FOLLOWS:

EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT.

IF THERE HAVE BEEN NO MAJOR EVENTS, EACH SILTSACK SHOULD BE INSPECTED PERIODICALLY -- EVERY 2 TO 3 WEEKS.

WHEN THE SILTSACK HAS COLLECTED 1 TO 1-1/2 FEET OF SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

SEEDING SPECIFICATIONS:

GRASS SEED:
PROVIDE FRESH, CLEAN NEW-CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES BY WEIGHT AS FOLLOWS:

20% ELKA PERENNIAL RYE — 20% DURAR HARD FESCUE
45% COVAR SHEEP FESCUE — 15% RUEBENS CANADIAN BLUEGRASS

PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:

GRASS SEED: 90 LBS PER ACRE
FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE WSDOT 1996 STANDARD SPECIFICATIONS, SECTION 8-01. CONTRACTOR TO IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED.

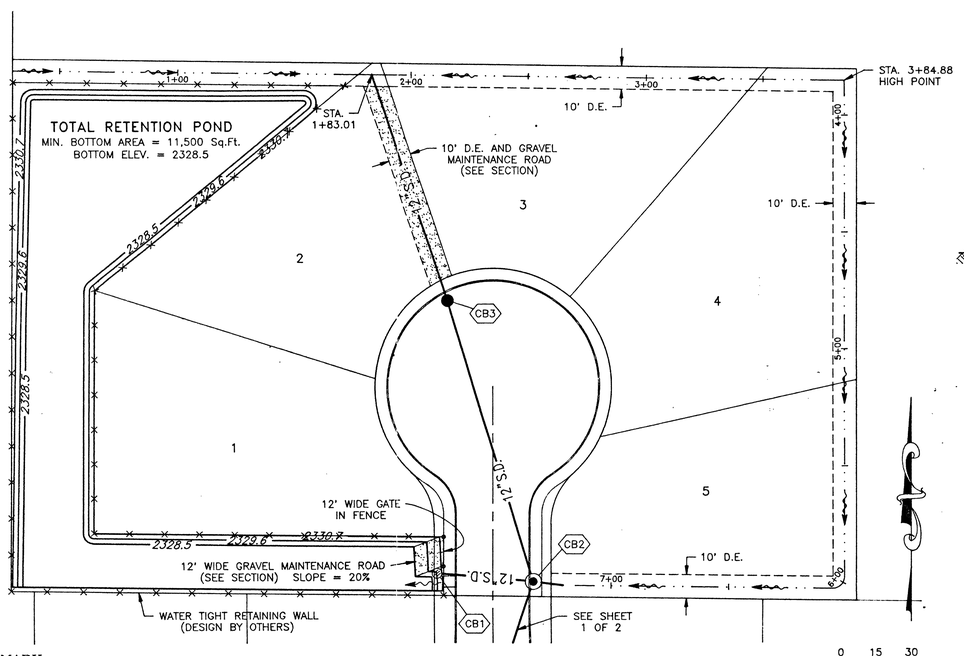
ENGINEER'S STATEMENT

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

JOEL G. LEE — STATE OF WASHINGTON — 30862 — REGISTERED PROFESSIONAL ENGINEER — 9-22-98
EXPIRES 2-21-99

ENGINEER'S STATEMENT: RECORD DRAWINGS:
I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS.

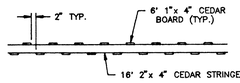
EUGENE F. FISHER — STATE OF WASHINGTON — 11560 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-4-03
6-4-03



BENCHMARK
ELEVATION = 2310.50
CBM No.: 105
29TH AVENUE & HAVANA STREET

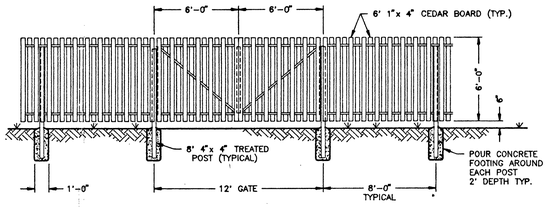
INTERCEPTION DITCH PLAN AND POND DETAIL
1" = 30'

0 15 30 60
SCALE: 1" = 30'

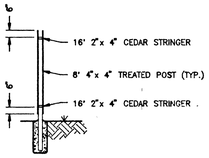


TOP VIEW DETAIL

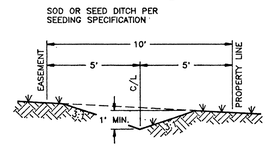
NOTES:
1) GATE FRAME TO BE CONSTRUCTED FROM 2"x 4" CEDAR. THREE (3) GATE HINGES SHALL BE PLACED TO SUPPORT GATE FROM SIDE. A GATE LOCK AND HASP SHALL BE PROVIDED TO ALLOW PADLOCKING OF GATE.
2) THE FENCE SHALL BE PAINTED OR STAINED. COLOR TO BE DETERMINED BY THE OWNER.



POND FENCE AND GATE DETAIL
NOT TO SCALE



SIDE VIEW



INTERCEPTION DITCH SECTION
NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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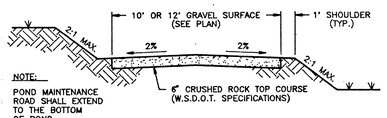
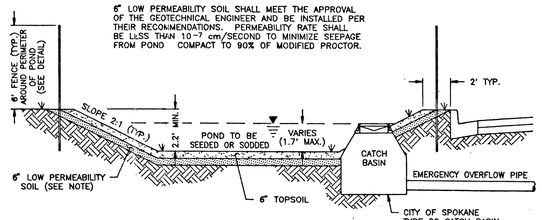
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



NOTE:
POND MAINTENANCE ROAD SHALL EXTEND TO THE BOTTOM OF POND.

MAINTENANCE ROAD X-SECTION
NOT TO SCALE

NOTE
6" LOW PERMEABILITY SOIL SHALL MEET THE APPROVAL OF THE GEOTECHNICAL ENGINEER AND BE INSTALLED PER THEIR RECOMMENDATIONS. PERMEABILITY RATE SHALL BE LESS THAN 10^{-7} cm/SECOND TO MINIMIZE SEEPAGE FROM POND. COMPACT TO 90% OF MODIFIED PROCTOR.



TYPICAL POND CROSS-SECTION
NOT TO SCALE

DEVELOPER'S APPROVAL — 9-22-98 DATE

CALL BEFORE YOU DIG 456-8000

7032-ST4.DWG XREF: 7032BASE.DWG, 7032POND.DWG

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

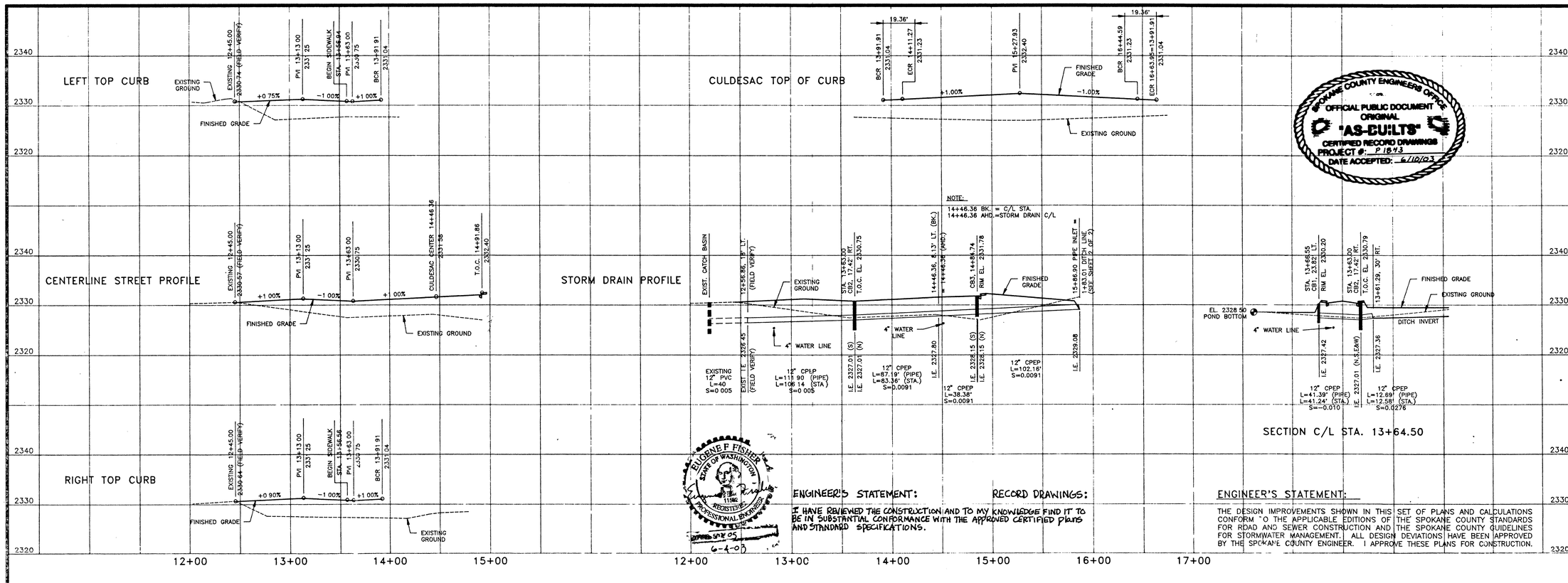
DRAWN BY: JKO
CHECKED BY: JGL
DATE: 09/21/98
SCALE: AS SHOWN

EOT 10/29/01

RECORD DRAWING
1st ADDITION TO PINE CLIFF
DRAINAGE DETAILS

SHEET 2 OF 2
97-032

PE 1843 Rev.
P-1843 Eng As Built



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1843
DATE ACCEPTED: 6/10/03

EUGENE F. FISHER
STATE OF WASHINGTON
11596
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-14-03
6-4-03

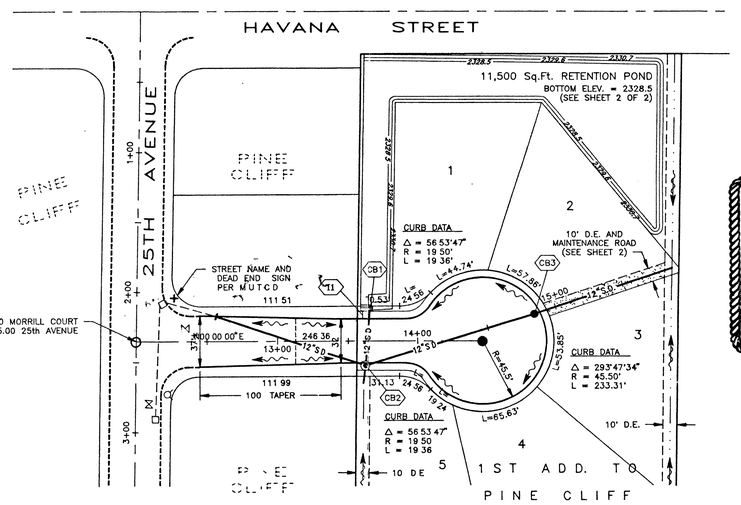
ENGINEER'S STATEMENT:

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS.

RECORD DRAWINGS:

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.



SPOKANE COUNTY ENGINEERS OFFICE
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PROJECT #: P1843
DATE ACCEPTED: 9/23/98 (10/29/01)
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PROJECT LANE MILES PRIVATE: -0-
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EOT

BENCHMARK
ELEVATION = 2310.50
CBM No.: 105
29TH AVENUE & HAVANA STREET

CB1 STA. 13+68.55, 23.82' LT.
CITY OF SPOKANE TYPE 00 C.B.
WITH FRAME & GRATE
T.O.G. EL. = 2330.20
I.E. = 2327.42

CB2 STA. 13+63.00, 17.42' RT.
CITY OF SPOKANE TYPE 2 C.B.
WITH TYPE 2 COVER
RIM EL. = 2330.79
I.E. = 2327.01 (N,S,E&W)

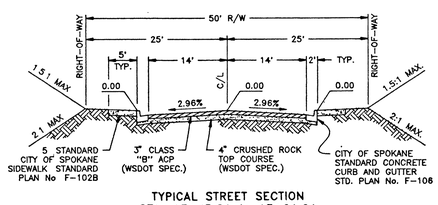
CB3 STA 14+84.74
(14+83 06, 19.38' LT., C/L STA.)
CITY OF SPOKANE TYPE 0 C.B. w/8" MH TOP SLAB
WITH SOLID COVER
RIM EL = 2331.78
I E = 2328.15 (N&S)

I1 STA 13+63.00
4 SPOKANE COUNTY
TYPE 2 CURB INLET
SPOKANE CO. DETAIL B-9

0 25 50 100
SCALE: 1" = 50'

LEGEND

- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING WATER VALVE
- EXISITNG FIRE HYDRANT
- EXISTING STORM DRAIN CATCH BASIN
- EXISTING STORM DRAIN
- PROPOSED CITY OF SPOKANE TYPE 00 CATCH BASIN
- PROPOSED STORM MANHOLE/TYPE 0 CATCH BASIN
- PROPOSED CITY OF SPOKANE TYPE 2 CATCH BASIN
- 12"S.D. — PROPOSED STORM DRAIN
- D.E. — DRAINAGE EASEMENT
- EXISTING TYPE "A" CURB
- PROPOSED CURB
- STREET NAME SIGN PER M.U.T.C.D.
- SURFACE FLOW DIRECTION



TYPICAL STREET SECTION
STA. 13+45.01 to 13+91.91
NOT TO SCALE

CONSTRUCTION NOTES

1) ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 1996 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1995 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO

2) LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. PRIOR TO SITE CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

3) CURB DATA INFORMATION IS FOR BACK OF CURB.

4) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS

5) IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE

6) FOR ANY CURB GRADES LESS THAN 0.8% (0.008 ft/ft) A WASHINGTON STATE-LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

7) ALL STORM DRAIN SHALL BE CPEP, ADS N-12 CORRUGATED PIPE

8) STATION AND OFF-SET GIVEN AT CATCH BASINS ARE TO THE CENTER OF THE COVER (MAY NOT BE CENTER OF BARREL).

SPOKANE COUNTY ENGINEERS OFFICE
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PERMIT REQUIRED! (509) 456-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL 9-22-98 DATE

NOTE:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 1996 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND AS AMENDED BY THE CITY OF SPOKANE SUPPLEMENTAL SPECIFICATIONS.

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

JOEL G. LEE
STATE OF WASHINGTON
30891
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2-21-99
REVISED 12/14/00-CB3

EOT 10/29/01

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 09/21/98
SCALE: AS SHOWN

RECORD DRAWING

1st ADDITION TO PINE CLIFF
MORRILL COURT
STREET PLAN AND PROFILE

SHEET 1 OF 2

97-032

7032-STS.DWG XREF: 7032BASE.DWG

PE 1843 rev.
P-1843 Eng. As Built