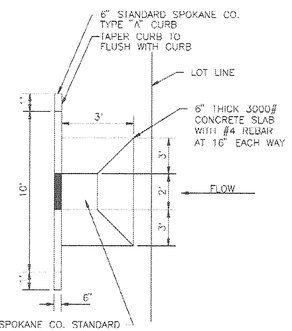
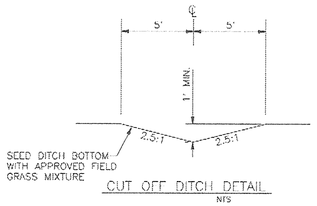


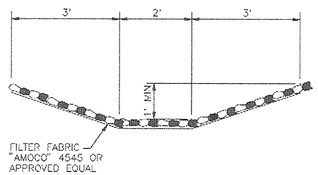
INLET DETAIL
NTS

NOTE:
ALL DRYWELLS SHALL BE INSTALLED WITH FILTER FABRIC ("AMOCO" 4545 OR APPROVED EQUAL) BETWEEN THE DRAIN ROCK AND THE EXCAVATED LATERAL GROUND SURFACE

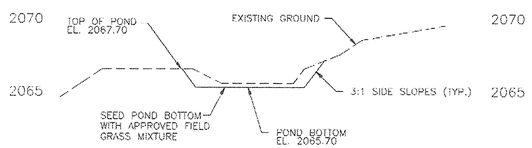


CUT OFF DITCH DETAIL
NTS

SPOKANE COUNTY ENGINEER'S OFFICE
-CONSTRUCTION PLANS-
PROJECT #: P1640
DATE ACCEPTED: 8-21-96
ACCEPTANCE EXPIRES: 8-20-99
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE



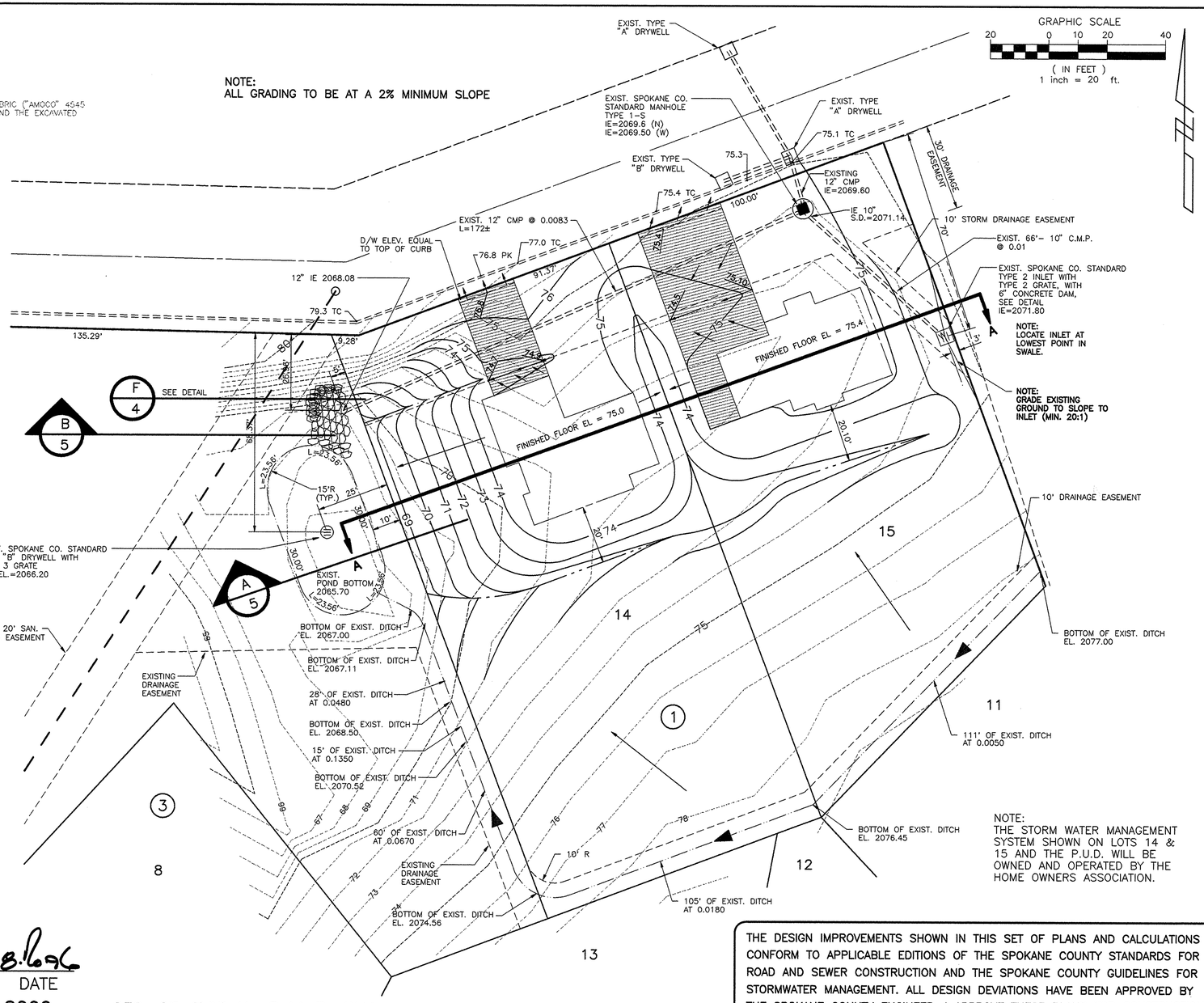
RIP RAP SWALE
NTS



SEED MIXTURE SHALL BE STREAMBANK WHEATGRASS (SODAR) 33.3%, TALL WHEATGRASS (ALKAR) 33.3%, AND INTERMEDIATE WHEATGRASS (GREENAR) 33.4%. APPLICATION SHALL BE AT THE RATE OF 60 LBS. SEED MIXTURE PER ACRE AND SHALL INCLUDE A FERTILIZER MIX WHICH YIELDS 135 LBS./ACRE TOTAL NITROGEN AS N, 80 LBS./ACRE AVAILABLE AS PHOSPHORIC ACID P205, AND 80 LBS./ACRE SOLUBLE POTASH AS K20.

POND CROSS SECTION
NTS

NOTE:
ALL GRADING TO BE AT A 2% MINIMUM SLOPE



NOTE:
THE STORM WATER MANAGEMENT SYSTEM SHOWN ON LOTS 14 & 15 AND THE P.U.D. WILL BE OWNED AND OPERATED BY THE HOME OWNERS ASSOCIATION.

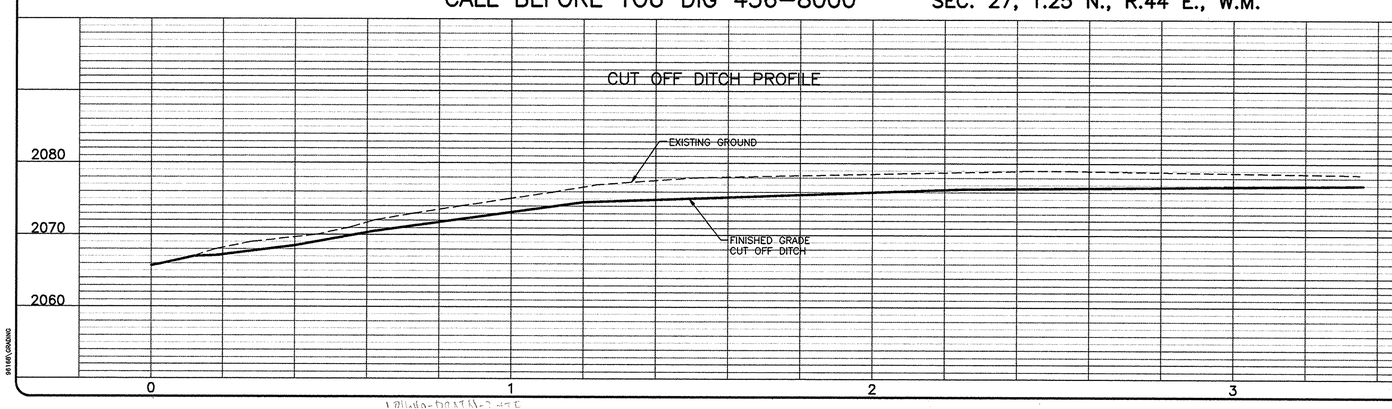
COUNTY DATUM
FOUND SPIKE IN P. POLE AT 21ST. AND CHERRY ST. (SOUTH SIDE OF 21ST) PER COUNTY ULID PROJECT EL. 2090.18

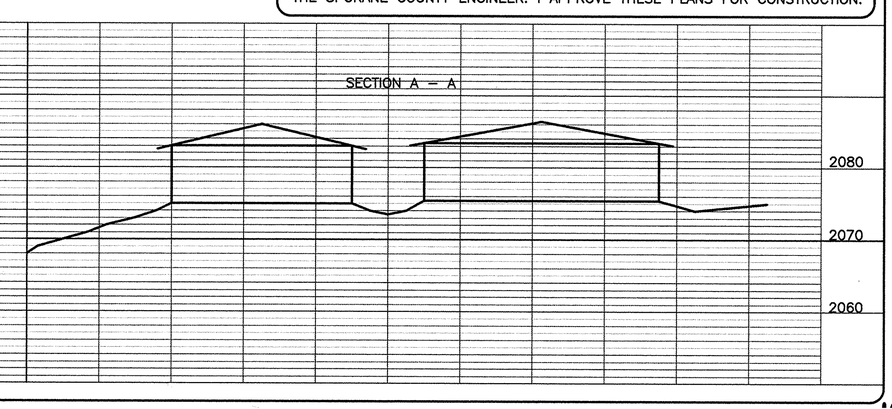
DEVELOPER'S APPROVAL — DATE 8.6.96

CALL BEFORE YOU DIG 456-8000

SEC. 27, T.25 N., R.44 E., W.M.

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO 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.





SCALE: HORIZONTAL 1"=20' VERTICAL 1"=10'

DATE 8/19/92 DWN. MJL/BJH CHK. TRW APP. TRW

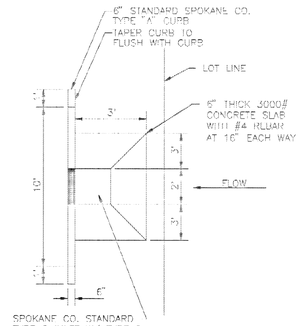
NO.	DATE	BY	REVISIONS

INLAND PACIFIC ENGINEERING
707 West 7th - Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

STREET

SOUTHWOOD PINES
DRAINAGE DETAILS

SHEET 5A OF 5
JOB NUMBER 91104



INLET DETAIL
NTS

NOTE:
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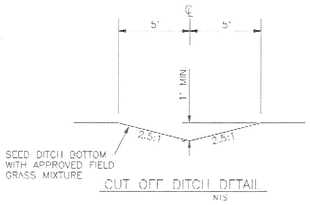

CUT OFF DITCH DETAIL
NTS

SPOKANE COUNTY ENGINEERS OFFICE
-CONSTRUCTION PLANS-
PROJECT #: P1640
DATE ACCEPTED: 8-21-96
ACCEPTANCE EXPIRES: 8-20-99
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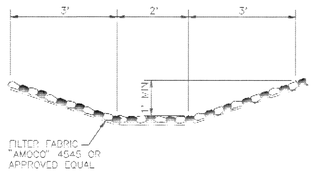
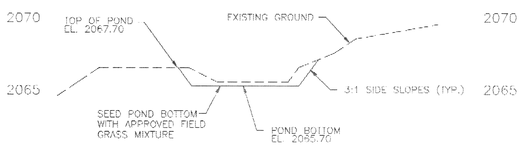


RIP RAP SWALE
NTS
B
5



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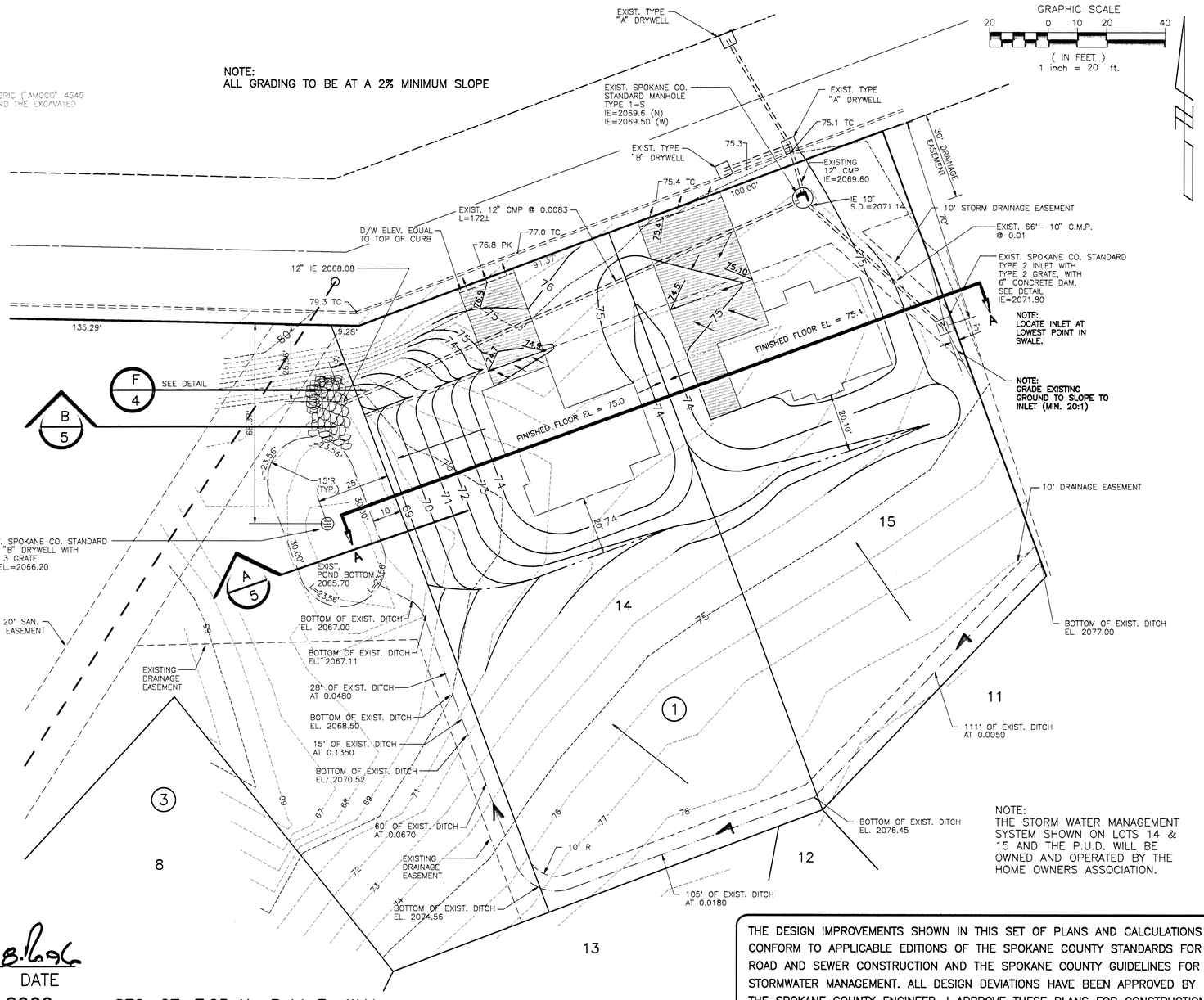
POND CROSS SECTION
NTS
A
5

NOTE:
ALL GRADING TO BE AT A 2% MINIMUM SLOPE



NOTE:
THE STORM WATER MANAGEMENT SYSTEM SHOWN ON LOTS 14 & 15 AND THE P.U.D. WILL BE OWNED AND OPERATED BY THE HOME OWNERS ASSOCIATION.

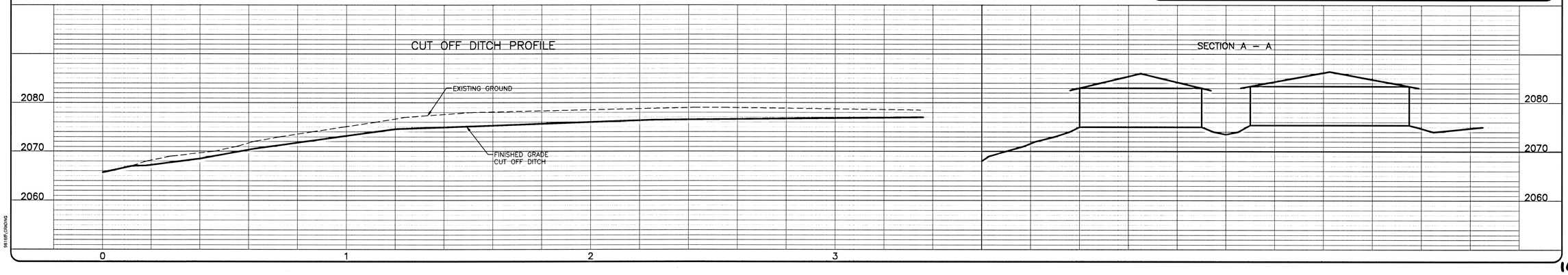
COUNTY DATUM
FOUND SPIKE IN P. POLE AT 21ST. AND CHERRY ST. (SOUTH SIDE OF 21ST) PER COUNTY ULID PROJECT EL. 2090.18

DEVELOPER'S APPROVAL — DATE

CALL BEFORE YOU DIG 456-8000

SEC. 27, T.25 N., R.44 E., W.M.

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO 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.



SCALE	HORIZONTAL 1"=20'	VERTICAL 1"=10'
DATE 8/19/92	DWN. MJI/BAH	CHK. TRW	APP. TRW

NO.	DATE	BY	REVISIONS

EXPIRES 9/24/

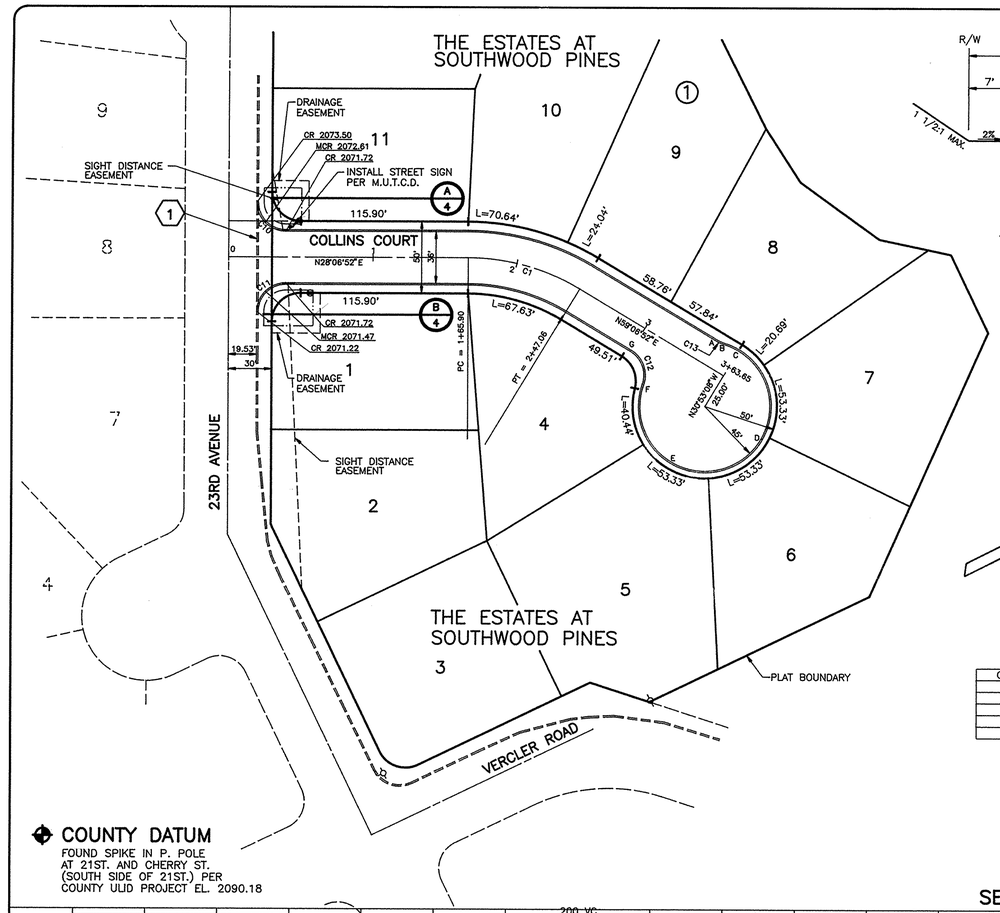
INLAND PACIFIC ENGINEERING
707 West 7th • Suite 200 Spokane, WA 99204
(509) 458-6840 FAX: (509) 458-6844

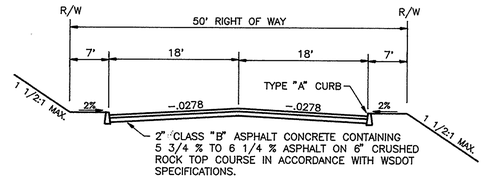
STREET

SOUTHWOOD PINES
DRAINAGE DETAILS

SHEET 5A OF 5
JOB NUMBER 91104

1640





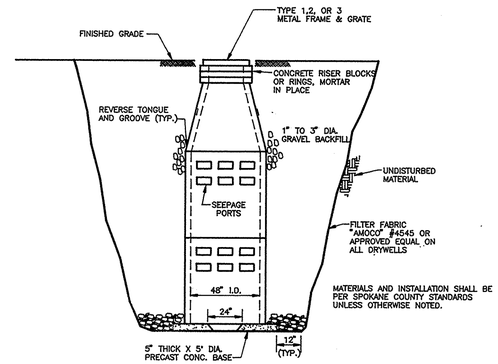
TYPICAL CROSS-SECTION

COLLINS COURT

GENERAL NOTES

1. MOVE ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ADJUST ALL MANHOLES, VALVE BOXES, ECT. PRIOR TO PAVING.

(1) REMOVE 80'± EXISTING CONCRETE CURB



MATERIALS AND INSTALLATION SHALL BE PER SPOKANE COUNTY STANDARDS UNLESS OTHERWISE NOTED.

DOUBLE DEPTH DRYWELL

NOTE:
ALL DRYWELLS SHALL BE INSTALLED WITH FILTER FABRIC ("AMOCO" #4545 OR APPROVED EQUAL) BETWEEN THE DRAIN ROCK AND THE EXCAVATED LATERAL GROUND SURFACE.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	150.00'	81.16'	41.60'	80.17'	31°00'00"
C10	20.00'	31.41'	19.99'	28.28'	89°58'20"
C11	20.00'	31.42'	20.01'	28.29'	90°01'04"
C12	20.00'	27.39'	16.33'	25.30'	78°27'47"
C13	20.00'	4.97'	2.50'	4.96'	14°15'00"

COUNTY DATUM

FOUND SPIKE IN P. POLE AT 21ST. AND CHERRY ST. (SOUTH SIDE OF 21ST.) PER COUNTY ULID PROJECT EL. 2090.18

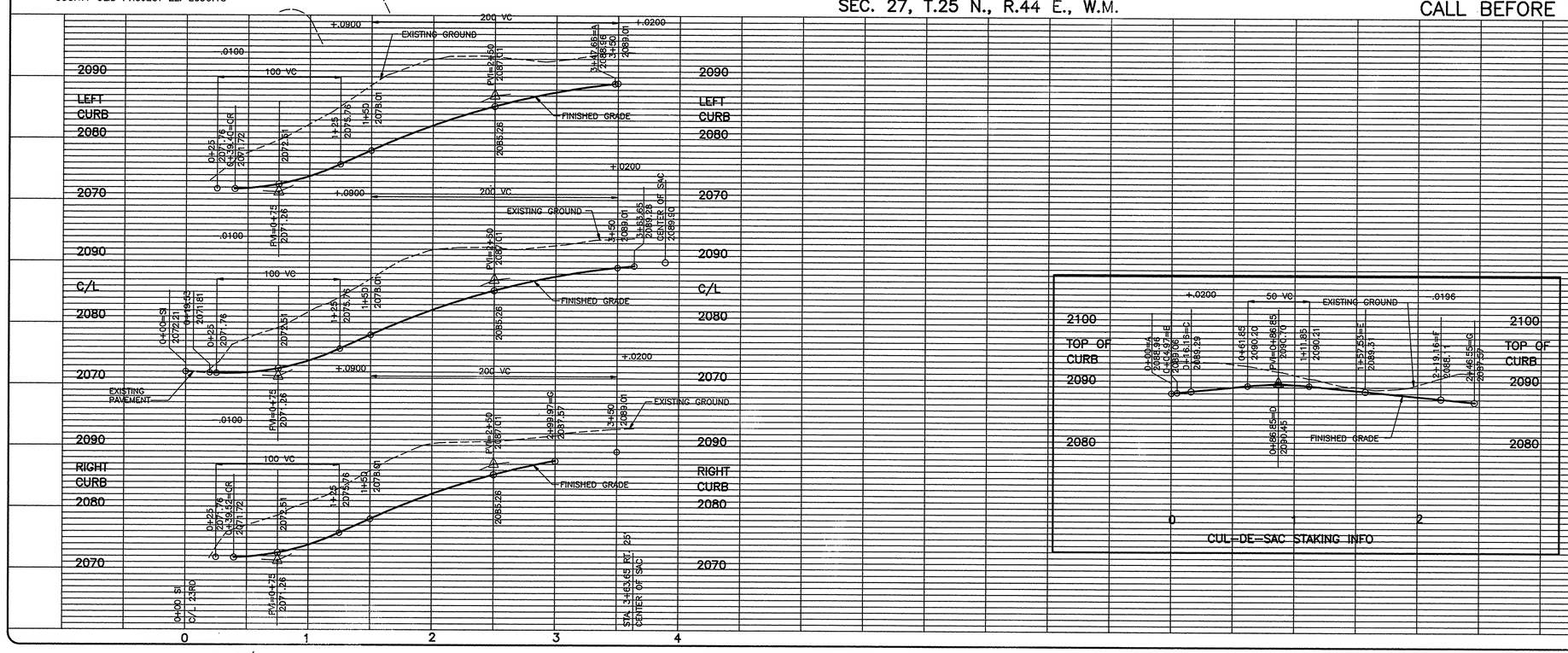
DEVELOPERS APPROVAL — DATE 8/14/92

SEC. 27, T.25 N., R.44 E., W.M.

CALL BEFORE YOU DIG 456-8000

APPROVED FOR CONSTRUCTION — SPOKANE COUNTY ENG. BY 8.19.92

PERMIT REQUIRED! NOTIFY THE PERMIT ENGINEER 456-3600 24 HRS. PRIOR TO CONSTRUCTION



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

DATE 8/13/92 DWN. BAH CHK. MPY APP. MPY

NO.	DATE	BY	REVISIONS

EXPIRES 5/01

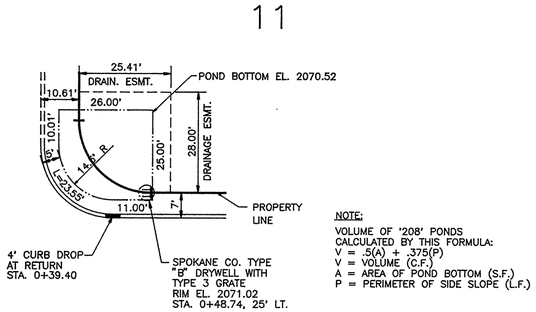
INLAND PACIFIC ENGINEERING
South 25 Altamont Spokane, Washington 99202
(509) 535-1410

SOUTHWOOD PINES
COLLINS COURT
STREET

SHEET 1 OF 5

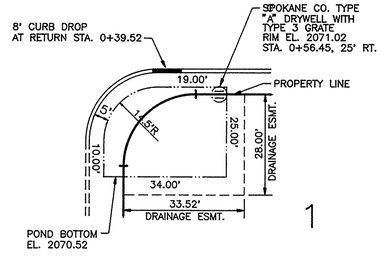
JOB NUMBER 91104

LP1640-PP-1.TIF

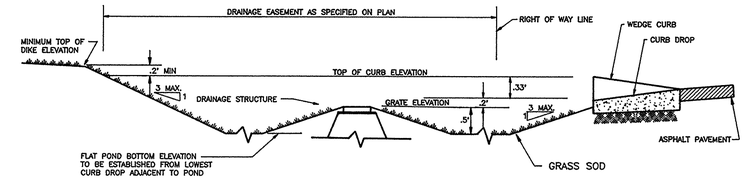


NOTE:
VOLUME OF '208' PONDS CALCULATED BY THIS FORMULA:
V = .5(A) + .375(P)
V = VOLUME (C.F.)
A = AREA OF POND BOTTOM (S.F.)
P = PERIMETER OF SIDE SLOPE (L.F.)

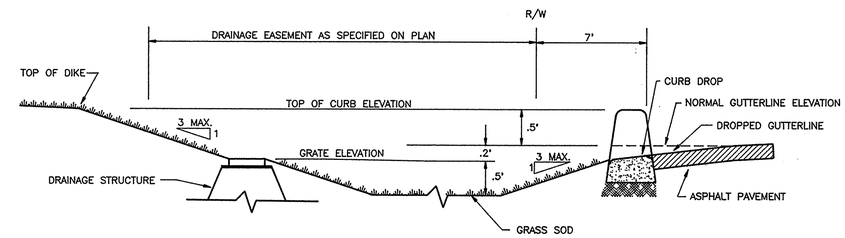
'208' POND
337 C.F.
A/4



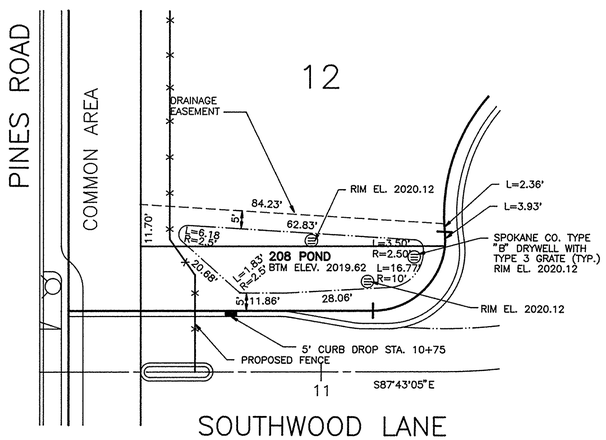
'208' POND
442.71 C.F.
B/4



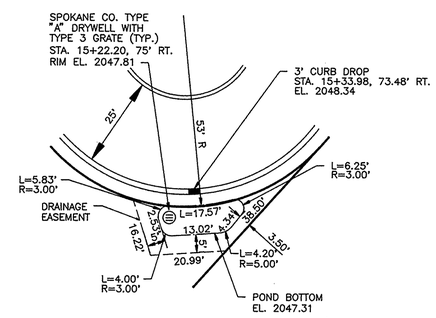
TYPICAL '208' POND
WITH DRAINAGE STRUCTURE
SECTIONAL VIEW



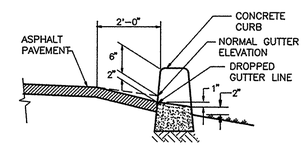
TYPICAL '208' POND
WITH DRAINAGE STRUCTURE
SECTIONAL VIEW
(NOT TO SCALE)



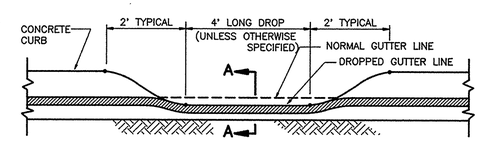
'208' POND
532 C.F.
D/4



'208' POND
110 C.F.
N.T.S.
C/4



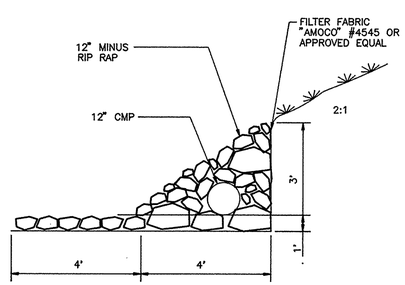
SECTION A–A

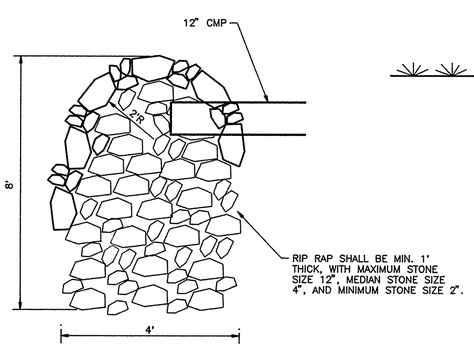


TYPICAL CURB DROP
(NOT TO SCALE)

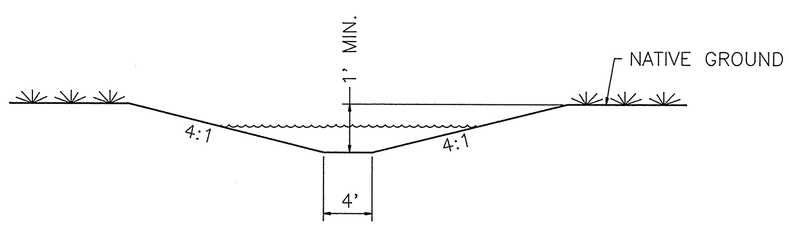
APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY 8-19-92

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

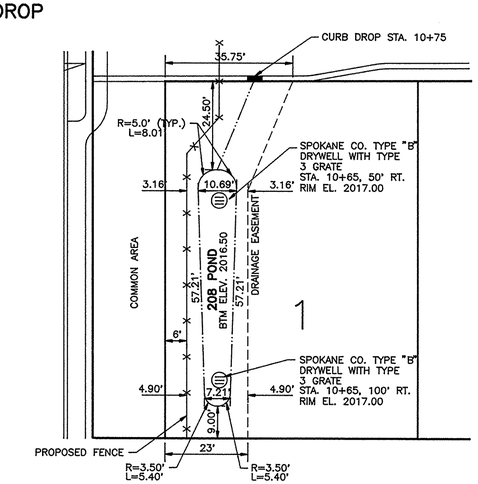




RIP RAP FLOW DIVERTER
NTS
F/4



SWALE DETAIL
NTS
2/4



'208' POND
332 C.F.
E/4

DEVELOPER'S APPROVAL

DATE

91104\DETAILS

LP1640-UTIL-1.TIF

SCALE	
HORIZONTAL	NTS
VERTICAL	NTS

DATE	8/13/92
DWN.	BAH
CHK.	MPY
APP.	MPY

NO.	DATE	BY	REVISIONS

MIKE PAYNE
STATE OF WASHINGTON
EXPIRES 5/01

INLAND PACIFIC ENGINEERING
South 25 Altamont Spokane, Washington 99202
(509) 535-1410

THE ESTATES AT SOUTHWOOD PINES
DETAIL SHEET

DETAILS

SHEET 4 OF 5
JOB NUMBER 91104

NOTE:
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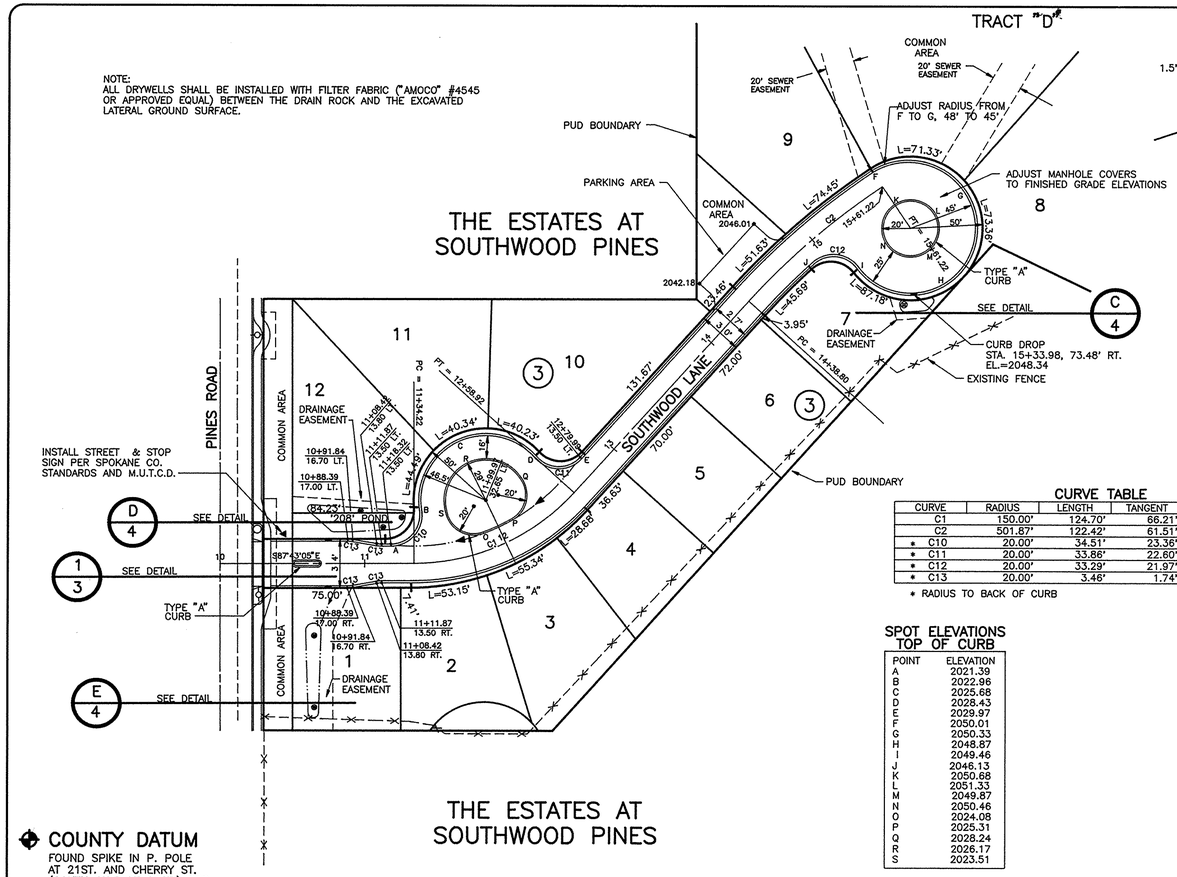
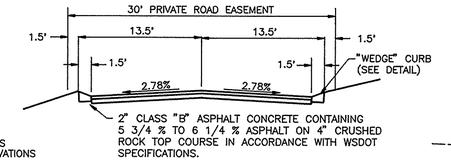
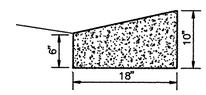
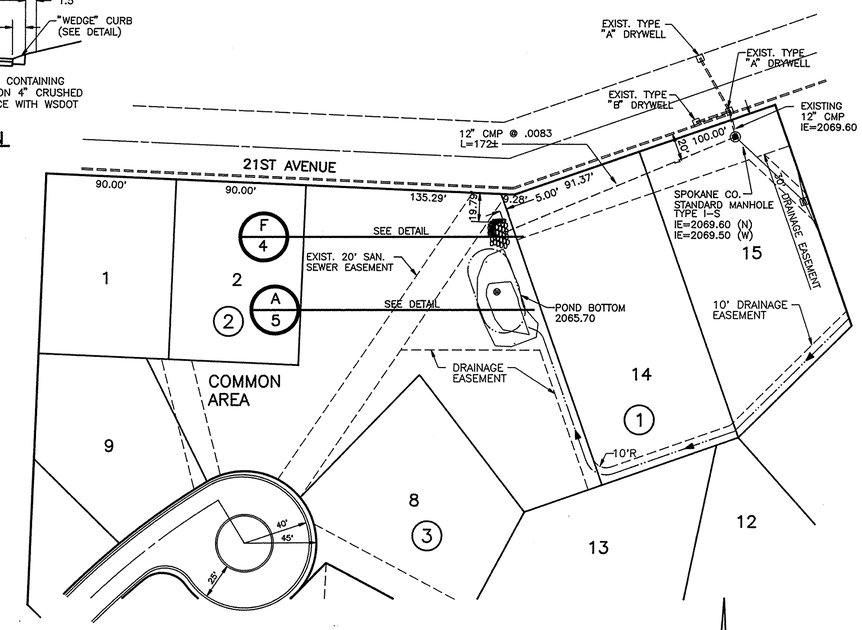




TYPICAL CROSS-SECTION
SOUTHWOOD LANE



WEDGE CURB



CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	150.00'	124.70'	66.21'	121.14'	47°37'55"
C2	501.87'	122.42'	61.51'	122.12'	13°58'34"
* C10	20.00'	34.51'	23.36'	30.39'	98°51'45"
* C11	20.00'	33.86'	22.60'	29.96'	96°59'29"
* C12	20.00'	33.29'	21.97'	29.58'	95°21'56"
* C13	20.00'	3.46'	1.74'	3.46'	09°55'34"

* RADIUS TO BACK OF CURB

SPOT ELEVATIONS
TOP OF CURB

POINT	ELEVATION
A	2021.39
B	2022.98
C	2025.68
D	2028.43
E	2029.97
F	2050.01
G	2050.33
H	2048.87
I	2049.46
J	2046.13
K	2050.68
L	2051.33
M	2049.87
N	2050.46
O	2024.08
P	2025.31
Q	2028.24
R	2026.17
S	2023.51

COUNTY DATUM
FOUND SPIKE IN P. POLE AT 21ST. AND CHERRY ST. (SOUTH SIDE OF 21ST.) PER COUNTY ULID PROJECT EL. 2090.18

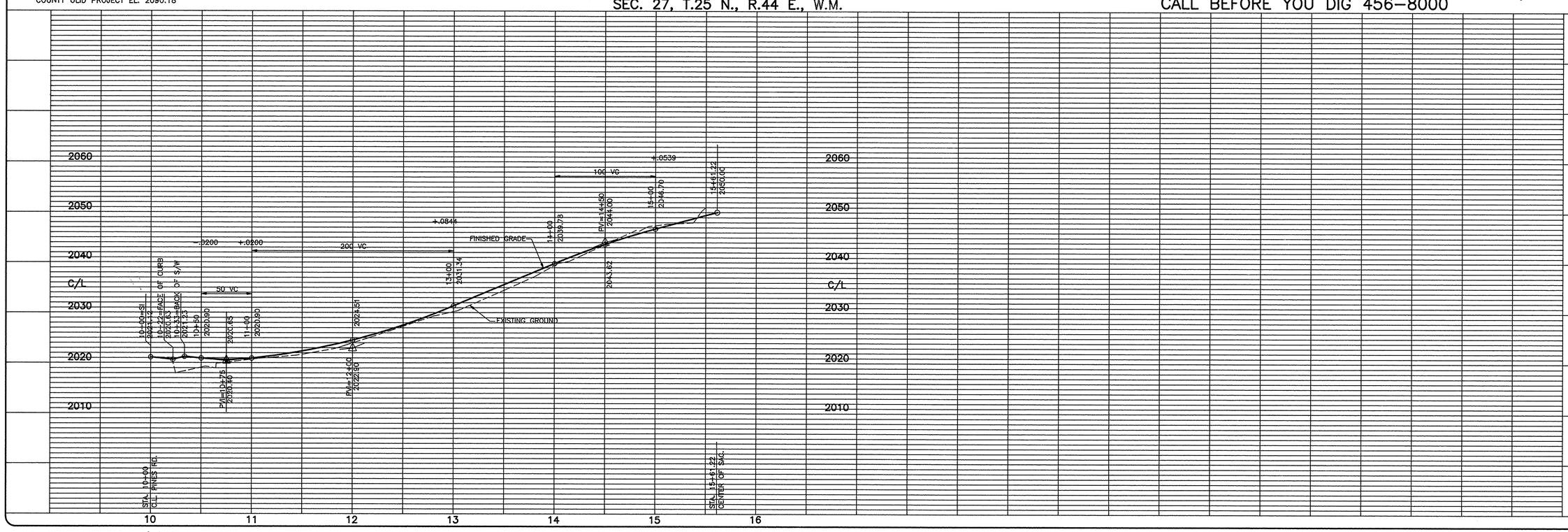
DEVELOPERS APPROVAL DATE

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY
8-19-92

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

SEC. 27, T.25 N., R.44 E., W.M.

CALL BEFORE YOU DIG 456-8000



LP1640-PP-2 2 2 F

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

DATE	8/13/92
DWN.	BAH
CHK.	MPY
APP.	MPY

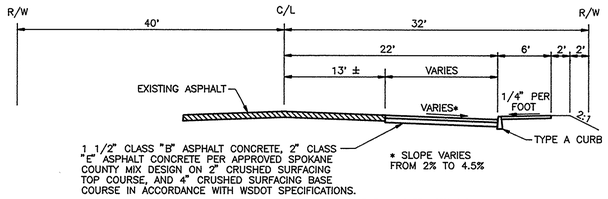
NO.	DATE	BY	REVISIONS

MIKE YAKE STATE OF WASHINGTON 9013591 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5/01

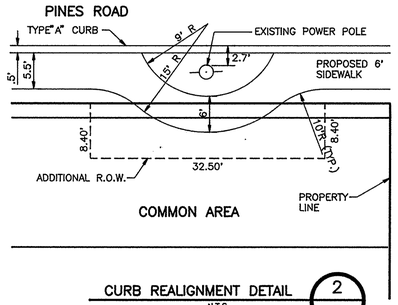
INLAND PACIFIC ENGINEERING
South 25 Altamont Spokane, Washington 99202
(509) 535-1410

SOUTHWOOD PINES
SOUTHWOOD LANE
STREET

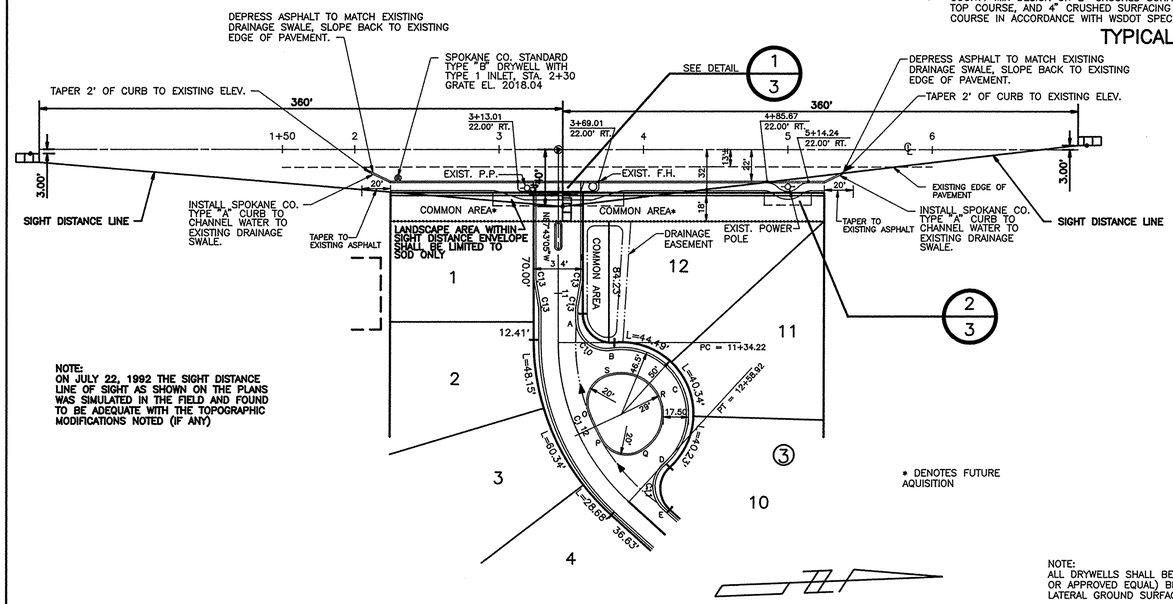
SHEET 2 OF 5
JOB NUMBER 91104



TYPICAL CROSS-SECTION
PINES ROAD



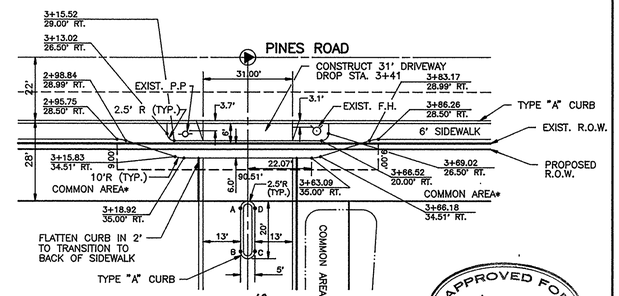
CURB REALIGNMENT DETAIL 2/3
N.T.S.



NOTE:
ON JULY 22, 1992 THE SIGHT DISTANCE LINE OF SIGHT AS SHOWN ON THE PLANS WAS SIMULATED IN THE FIELD AND FOUND TO BE ADEQUATE WITH THE TOPOGRAPHIC MODIFICATIONS NOTED (IF ANY)

NOTE:
ALL DRYWELLS SHALL BE INSTALLED WITH FILTER FABRIC ("AMOCO" #4545 OR APPROVED EQUAL) BETWEEN THE DRAIN ROCK AND THE EXCAVATED LATERAL GROUND SURFACE.

DEVELOPER'S APPROVAL 8/13/92 DATE



SPOT ELEVATIONS
TOP OF CURB

POINT	ELEVATION
A	2020.85
B	2020.66
C	2020.66
D	2020.85

ENTRANCE DETAIL 1/3
N.T.S.

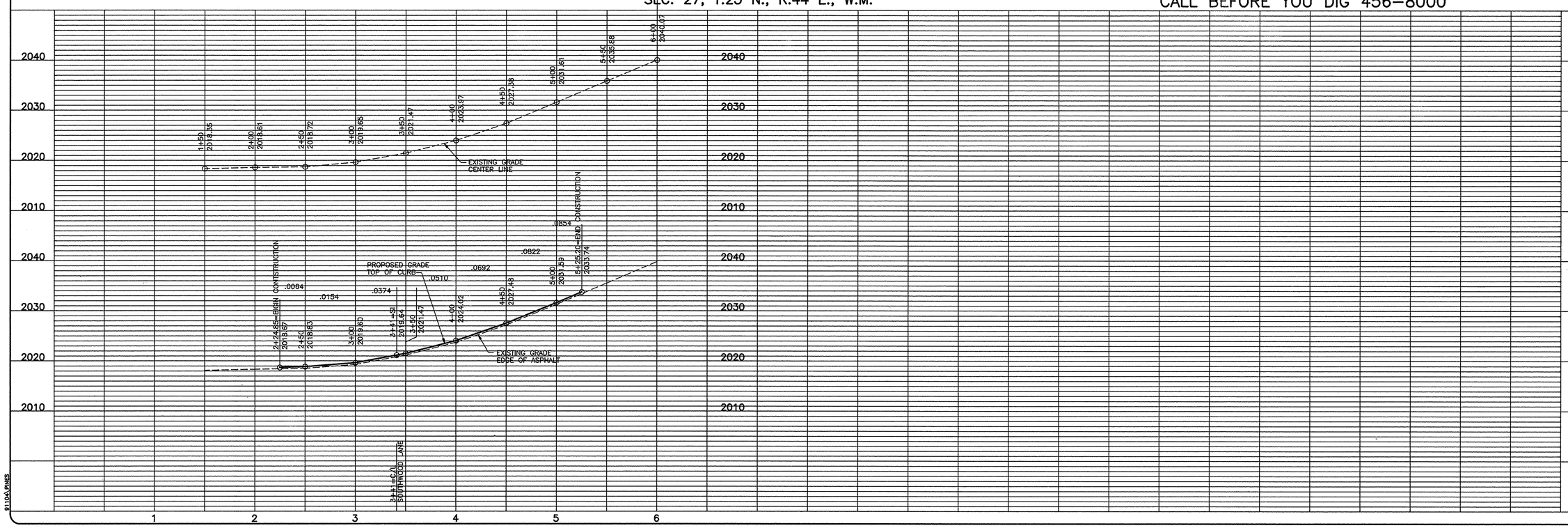
APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY 8-19-92

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

COUNTY DATUM
FOUND SPIKE IN P. POLE AT 21ST AND CHERRY ST. (SOUTH SIDE OF 21ST.) PER COUNTY ULID PROJECT EL. 2090.18

SEC. 27, T.25 N., R.44 E., W.M.

CALL BEFORE YOU DIG 456-8000



91104\PINES

LP1640-92-STIF

SCALE	HORIZONTAL 1"=50' VERTICAL 1"=10'
DATE	8/13/92
DWN.	BAH
CHK.	MPY
APP.	MPY

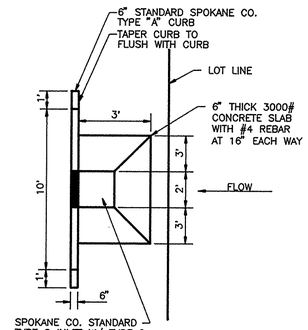
NO.	DATE	BY	REVISIONS

MARK TAYLOR STATE OF WASHINGTON 18591 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 5-01

INLAND PACIFIC ENGINEERING
South 25 Altamont Spokane, Washington 99202
(509) 535-1410

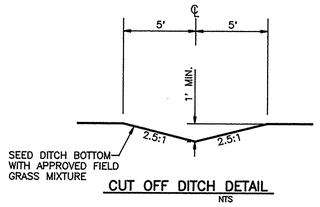
SOUTHWOOD PINES
PINES ROAD
STREET

SHEET 3 OF 5
JOB NUMBER 91104

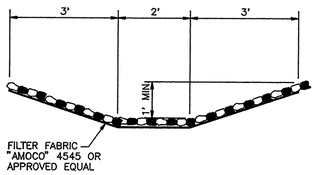


INLET DETAIL
NTS

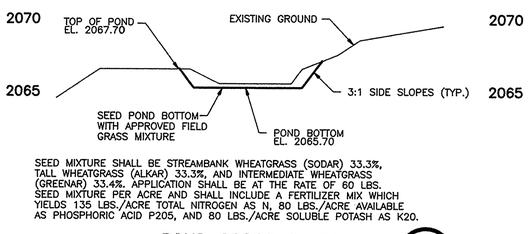
NOTE:
ALL DRYWELLS SHALL BE INSTALLED WITH FILTER FABRIC ("AMOCO" 4545 OR APPROVED EQUAL) BETWEEN THE DRAIN ROCK AND THE EXCAVATED LATERAL GROUND SURFACE.



CUT OFF DITCH DETAIL
NTS

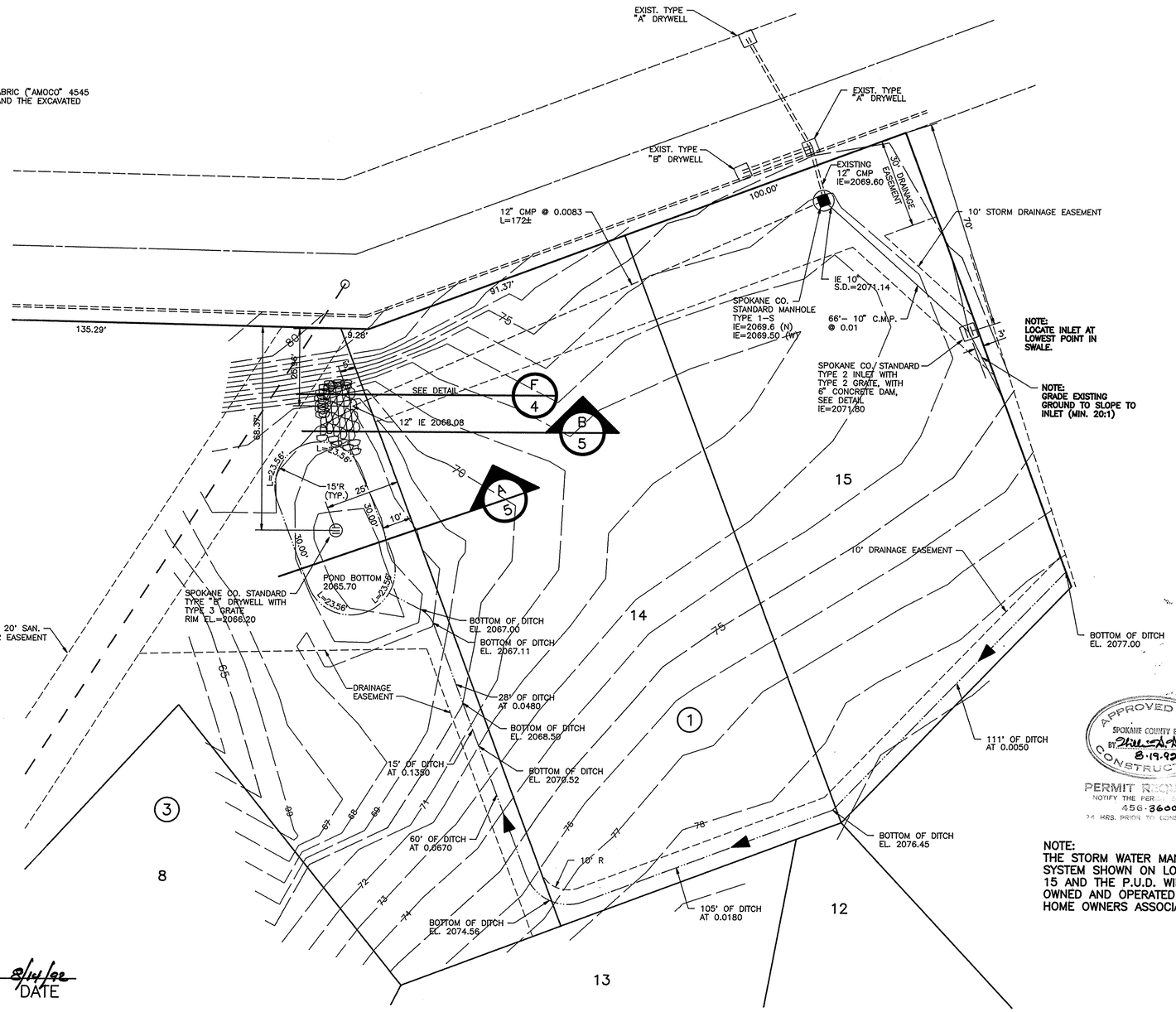


RIP RAP SWALE
NTS
B/5



SEED MIXTURE SHALL BE STREAMBANK WHEATGRASS (SODAR) 33.3%, TALL WHEATGRASS (ALKAR) 33.3%, AND INTERMEDIATE WHEATGRASS (GREENAR) 33.4%. APPLICATION SHALL BE AT THE RATE OF 60 LBS. SEED MIXTURE PER ACRE AND SHALL INCLUDE A FERTILIZER MIX WHICH YIELDS 135 LBS./ACRE TOTAL NITROGEN AS N, 80 LBS./ACRE AVAILABLE AS PHOSPHORIC ACID P205, AND 80 LBS./ACRE SOLUBLE POTASH AS K20.

POND CROSS SECTION
NTS
A/5



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY 8-19-92

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

NOTE:
THE STORM WATER MANAGEMENT SYSTEM SHOWN ON LOTS 14 & 15 AND THE P.U.D. WILL BE OWNED AND OPERATED BY THE HOME OWNERS ASSOCIATION.

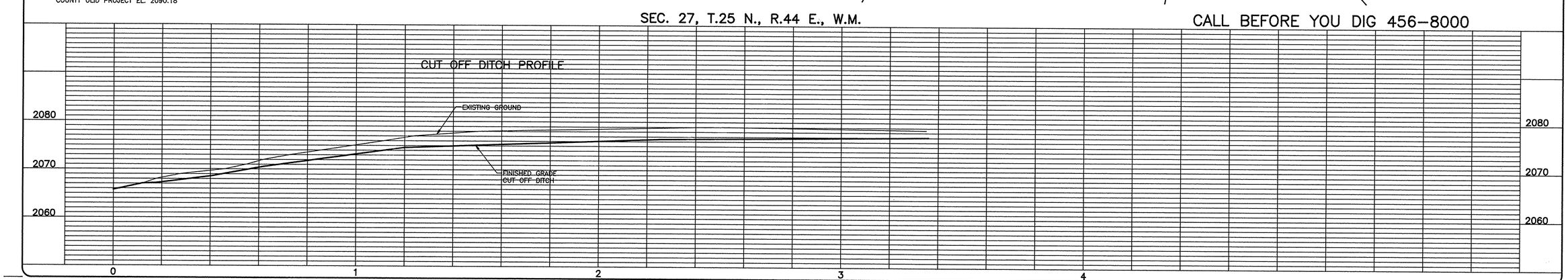
COUNTY DATUM
FOUND SPIKE IN P. POLE AT 21ST. AND CHERRY ST. (SOUTH SIDE OF 21ST) PER COUNTY ULID PROJECT EL. 2090.18

DEVELOPER'S APPROVAL

8/14/92
DATE

SEC. 27, T.25 N., R.44 E., W.M.

CALL BEFORE YOU DIG 456-8000



SCALE
HORIZONTAL 1"=20'
VERTICAL 1"=10'

DATE 8/6/92
DWN. BAH
CHK. MPY
APP. MPY

NO.	DATE	BY	REVISIONS

MIKE YAKI
STATE OF WASHINGTON
EXPIRES 5-01

INLAND PACIFIC ENGINEERING
South 25 Altamont Spokane, Washington 99202
(509) 535-1410

SOUTHWOOD PINES
DRAINAGE DETAILS

STREET

SHEET 5 OF 5
JOB NUMBER 91104

L91610-PP-4.TIF