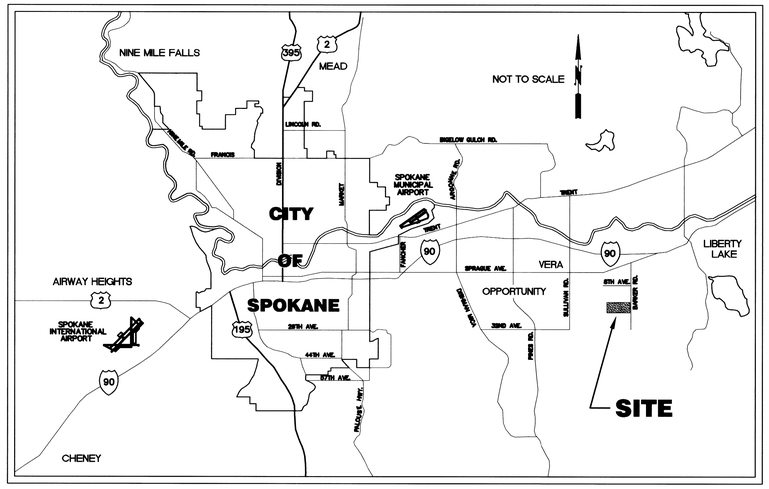
# ROAD AND DRAINAGE PLANS FOR

# TURTLE CREEK SOUTH SECOND & THIRD ADDITIONS

## SPOKANE, WASHINGTON

### SE 1/4 OF S.19, T.25 N., R. 45 EAST, W.M.




**LOCATION MAP**

## SCHEDULE OF DRAWINGS

**SHEET NO. DESCRIPTION**

**GENERAL**

1 ..... COVER SHEET

**ROAD**

2 ..... MOEN ROAD - STA. 10+60.90± TO STA. 15+19.53±

3 ..... 11TH. COURT - STA. 0-15.34 TO STA. 6+53.86
11TH. AVENUE - STA. 6+53.86 TO STA. 11+63.66±

4 ..... CRESCENT DRIVE - STA. 10+00 TO STA. 19+46.08

5 ..... 12TH. COURT - STA. 10+00 TO STA. 15+38.42
CRESCENT COURT - STA. 10+00 TO STA. 10+95

**DRAINAGE**

6 ..... OVERALL STORMWATER MASTER PLAN

7 ..... STORM WATER PROFILES

8 ..... EROSION AND SEDIMENT CONTROL PLAN

9 ..... DRAINAGE POND DETAILS

10 ..... ROAD AND DRAINAGE DETAILS

## NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION", 1995 AND AS AMMENDED.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3. 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.
4. 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.
5. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 509-456-8000 BEFOR YOU DIG.
6. FOR ANY CURB GRADES LESS THAN 0.8% (.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 CRB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.
7. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.
8. THE FLOOR OF A GRASS PERCOLATION AREA (GPA) SHALL INCLUDE THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHAL;L BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.
9. CONTRACTOR SHALL INSTALL FILTER FABRIC OVER CATCH BASIN GRATES DURING CONSTRUCTION AND PERIODICALLY CLEAN DEBRIS COLLECTED ON FABRIC. IF THE FILTER FABRIC, FOR ANY REASON, IS REMOVED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OUT THE CATCH BASIN AND REPLACE FILTER FABRIC.
10. STREET NAME SIGNS SHALL BE INSTALLED PER SPOKANE COUNTY STANDARDS.
11. CENTERLINE MONUMENTS SHALL BE INSTALLED AT ALL INTERSECTIONS.
12. SEE SHEETS 6 THROUGH 10 FOR DRAINAGE STRUCTURES AND CONSTRUCTION.

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.

## LEGEND

| | | | |
|---|---|---|---|
| ○ | EXIST. MANHOLE | ● | NEW SEWER MANHOLE |
| ◎ DW | EXIST. DRYWELL | • | NEW CLEAN OUT |
| □ CB | EXIST. CATCH BASIN | ⋈ | NEW WATER VALVE |
| ⋈ | EXIST. WATER VALVE | | NEW FIRE HYDRANT |
| | EXIST. FIRE HYDRANT | —8"W— | NEW WATER LINE |
| — — W — — | EXIST. WATER LINE | —8"SS— | NEW SANITARY SEWER |
| 1960 | EXIST. CONTOUR | — - - — | PLAT BOUNDARY |
| — —SS— — | EXIST. SANITARY SEWER | | NEW LOT LINES |
| - - - - - - - - - - | EASEMENT LINE | | NEW CURB AND GUTTER |
| | EXIST. ASPHALT | | NEW SIDEWALK |
| | NEW HANDICAP RAMP | | NEW WATER LINE PLUG |
| | NEW CURB INLET | | DRAINAGE FLOW |
| MON. | MONUMENT | | DRAINAGE DITCH/ROADSIDE SWALE |
| | | —2160— | FINISH CONTOUR |
| | | TC 2145.00 | FINISH GRADE ELEVATION |

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.36
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

*Developer's Approval* Richard Dale Mgr. *Date* 3/11/3

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/10/03
EXPIRES 03/10/03

REVISIONS

DWN: RIE DATE: 03/06/03
CK'D: CHM DATE: 03/06/03


Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224


SCALE: N/A

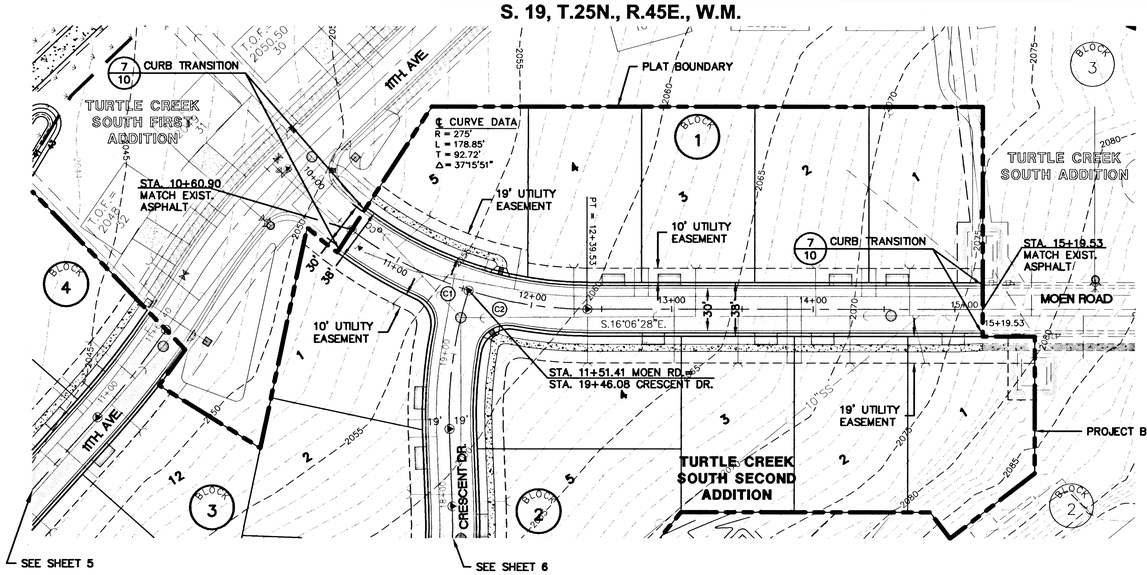
1/10

**TURTLE CREEK SOUTH SECOND AND THIRD ADDITIONS COVER SHEET**

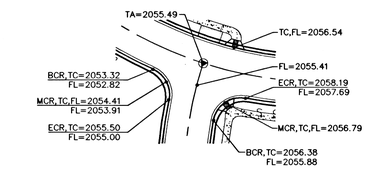
02-042 COVER SHEET

P1815B & P1815C Eng Road & Drainage

## S. 19, T.25N., R.45E., W.M.




CONTOUR INTERVAL = 1 FOOT




**INTERSECTION DETAIL**
**MOEN RD. / CRESCENT DR.**

CURVE TABLE AT FACE OF CURB

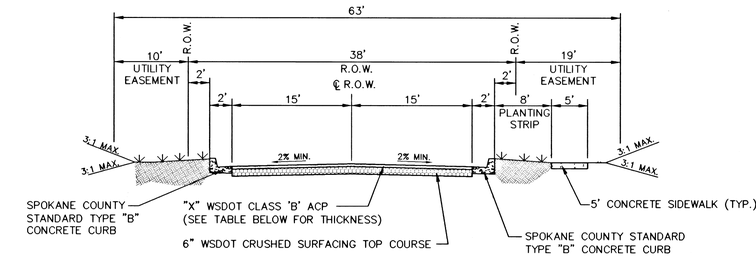
| CURVE | RADIUS | LENGTH | DELTA |
|---|---|---|---|
| C1 | 20' | 27.04' | 77°28'04" |
| C2 | 20' | 31.66' | 90°42'43" |

**NOTE:**

1. DUE TO INCREASED GROUNDWATER INFILTRATION FROM POND "E", SPECIAL ENGINEERED BASEMENT DESIGN IS REQUIRED FOR LOTS 3,4,5 & 6, BLOCK 2, TURTLE CREEK SOUTH, 2ND ADDITION. SEE INDIVIDUAL LOT PLANS FOR SPECIFIC REQUIREMENTS.

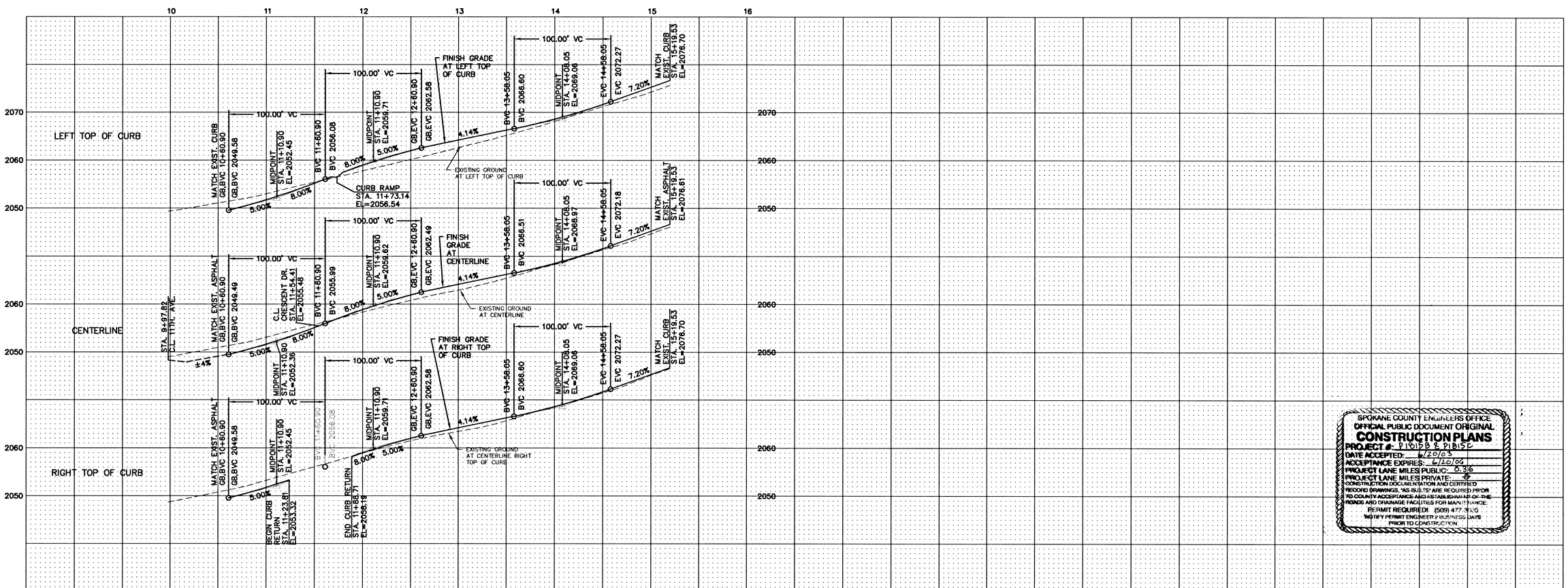
**TBM**
BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG




| ROAD SECTION | START STA. | END STA. | "X" |
|---|---|---|---|
| MOEN ROAD | 10+60.90± | 15+19.53± | 3" |
| 11TH AVENUE | 06+53.86 | 11+63.66± | 3" |
| 11TH COURT | 00-15.34 | 06+53.86 | 3" |
| CRESCENT DRIVE | 10+00.00 | 19+46.08 | 4" |
| CRESCENT COURT | 10+00.00 | 10+95.00 | 4" |
| 12TH COURT | 10+00.00 | 15+38.42 | 4" |

**PUBLIC ROAD CROSS-SECTION** (A)
NOT TO SCALE




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1015B & P1015C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.36
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

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/10/03 — EXPIRES 03/10/03

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Bohn Mgr. Date: 3/11/03

**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 MOEN RD ROAD
50 25 0 50 100
SCALE FEET

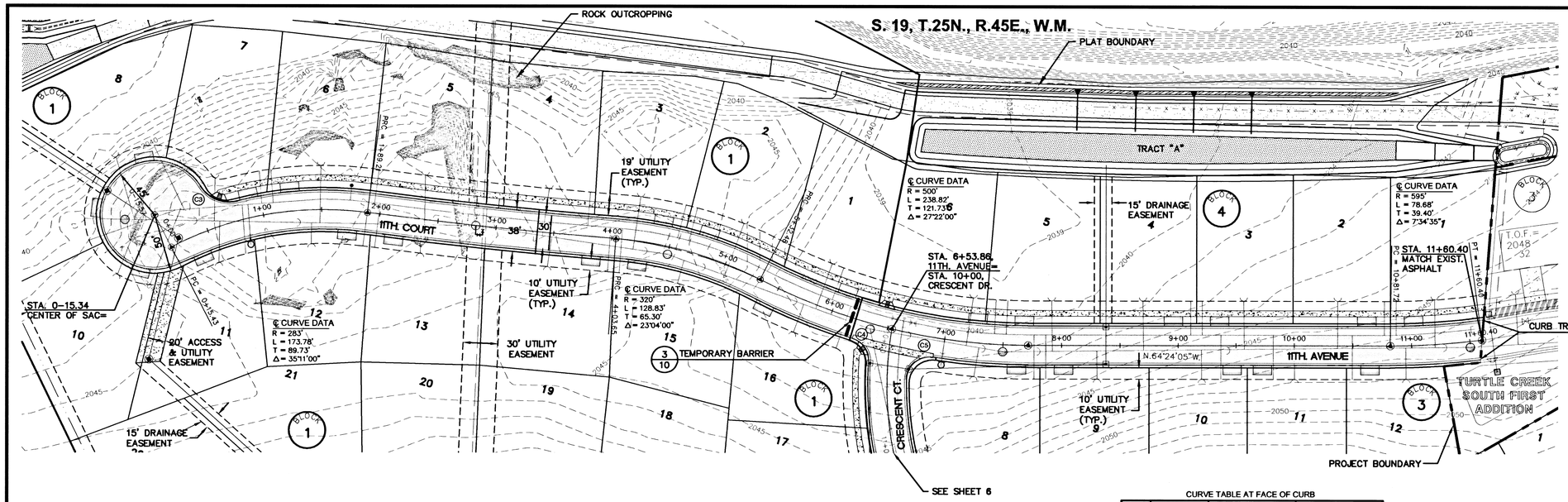
SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**MOEN ROAD**
**STA. 10+60.90± TO STA. 15+19.53±**

ROAD
SHEET 2 / 10

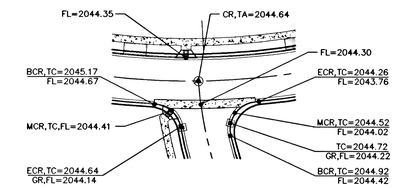
P1815B + P1815C Eng Road & Drainage




**TBM**
BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONTOUR INTERVAL = 1 FOOT

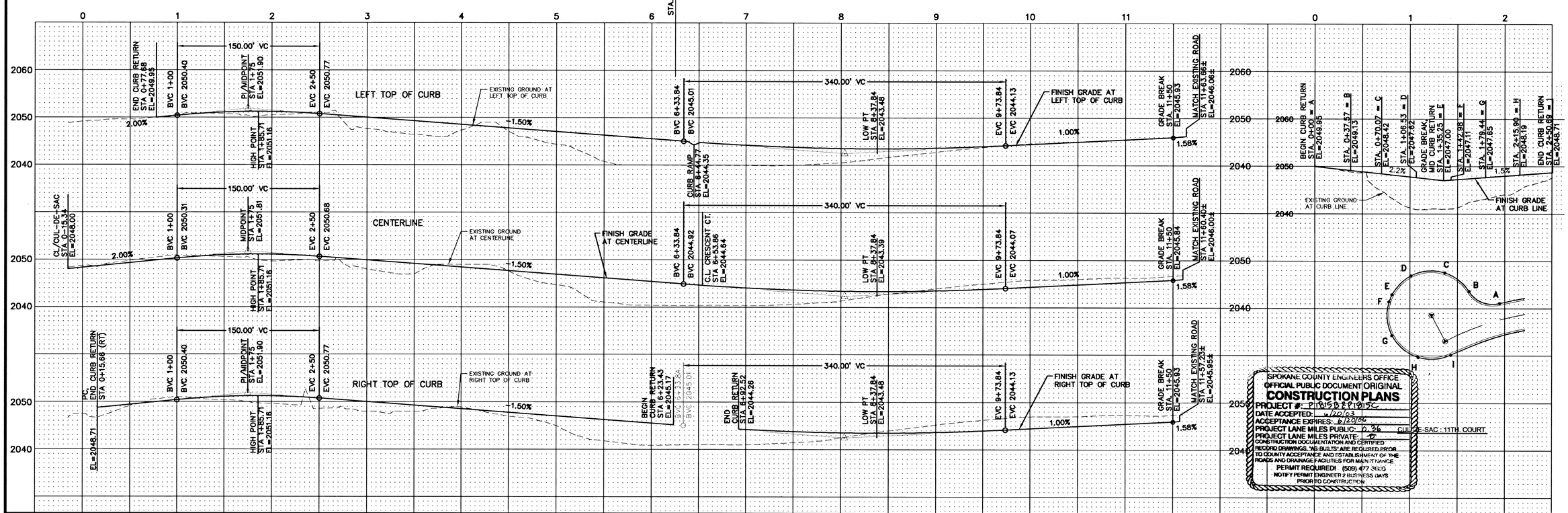



**INTERSECTION DETAIL**
CRESCENT CT. / 11TH. AVE.

CURVE TABLE AT FACE OF CURB

| CURVE | RADIUS | LENGTH | DELTA |
|---|---|---|---|
| C-3 | 20' | 35.57' | 71°45'23" |
| C-4 | 20' | 26.83' | 76°51'46" |
| C-5 | 20' | 34.17' | 97°53'28" |

TURTLE CREEK SOUTH THIRD ADDITION ← STA. 6+21.54 → TURTLE CREEK SOUTH SECOND ADDITION




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.26 CUL-DE-SAC : 11TH. COURT
PROJECT LANE MILES PRIVATE: .42
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

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

Drawn: RIE 03/06/03
Designed: RIE 03/06/03
Checked: CHM 03/06/03

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 03/10/03 — 3/11/03

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard D. Sahlberg Mgr. Date: 3/6/03

**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 11TH AVE ROAD
50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

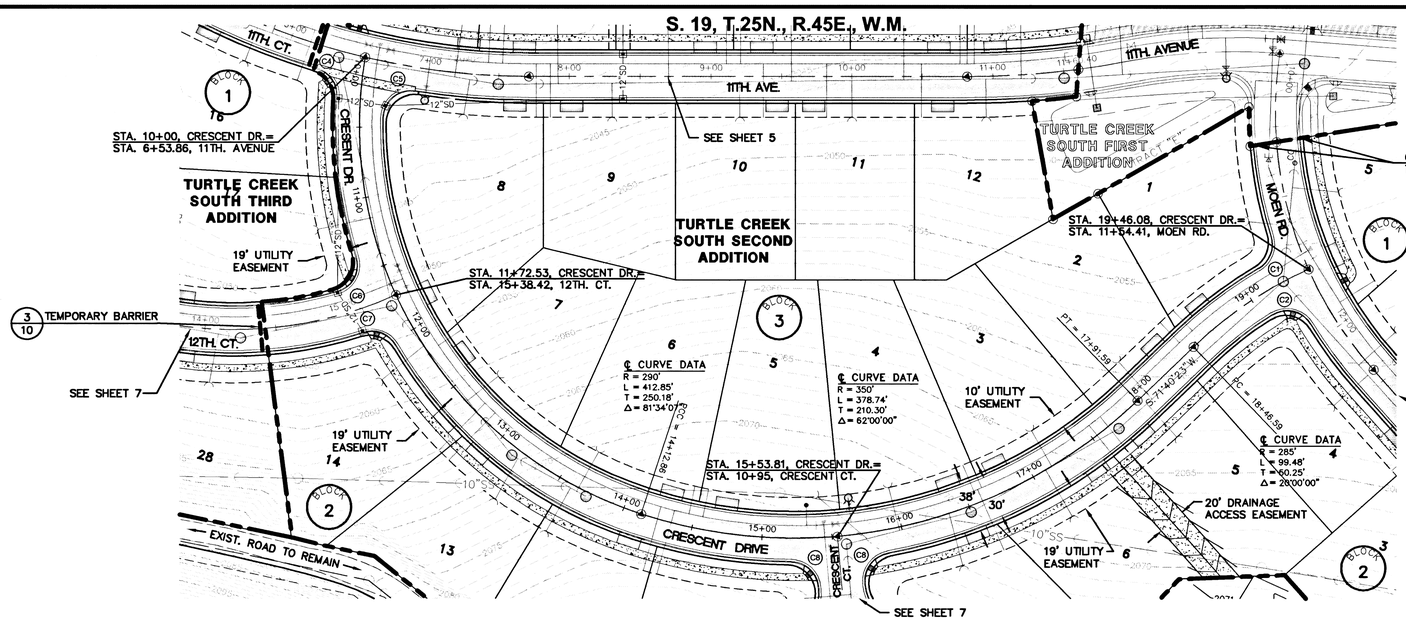
TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**11TH. COURT**
**STA. 0-15.34 TO STA. 6+53.86**

**11TH. AVENUE**
**STA. 6+53.86 TO STA. 11+63.66±**

ROAD
SHEET 3/10

P1815B + P1815C Eng Road + Drainage




**TBM**
BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONTOUR INTERVAL = 1 FOOT

CURVE TABLE AT FACE OF CURB

| CURVE | RADIUS | LENGTH | DELTA |
|---|---|---|---|
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| C2 | 20' | 31.66' | 90°42'43" |
| C4 | 20' | 26.83' | 76°51'46" |
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| C6 | 20' | 31.89' | 91°20'43" |
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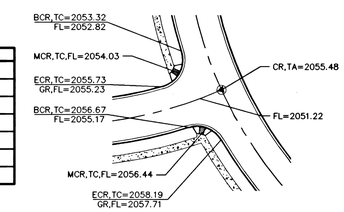
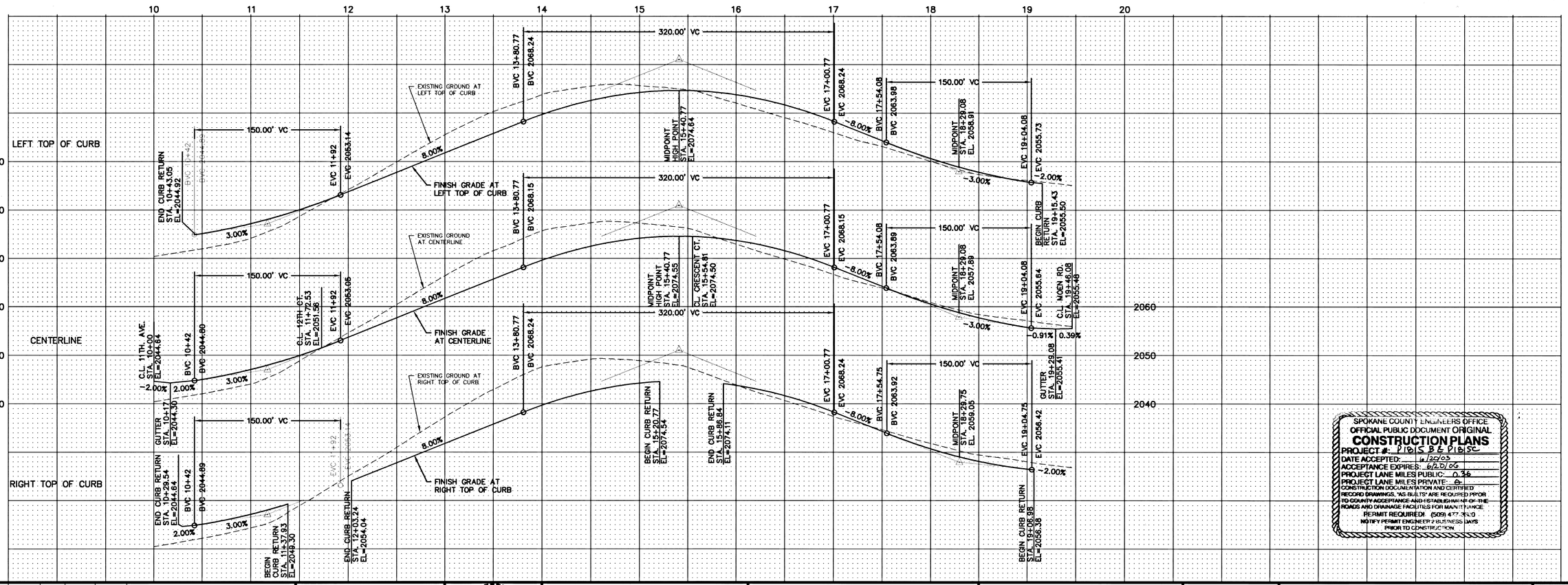



INTERSECTION DETAIL
CRESCENT DR. / 12TH. AVE.

NOTE:
1. DUE TO INCREASED GROUNDWATER INFILTRATION FROM POND "E", SPECIAL ENGINEERED BASEMENT DESIGN IS REQUIRED FOR LOTS 3,4,5 & 6, BLOCK 2, TURTLE CREEK SOUTH, 2ND ADDITION. SEE INDIVIDUAL LOT PLANS FOR SPECIFIC REQUIREMENTS.




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815 B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.38
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

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/10/03 — EXPIRES 03/10/03

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**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard Mr. Date: 3/6/03

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N._____ E._____
CADD FILE NAME: 02-042 ROAD A ROAD
50 25 0 50 100
SCALE FEET

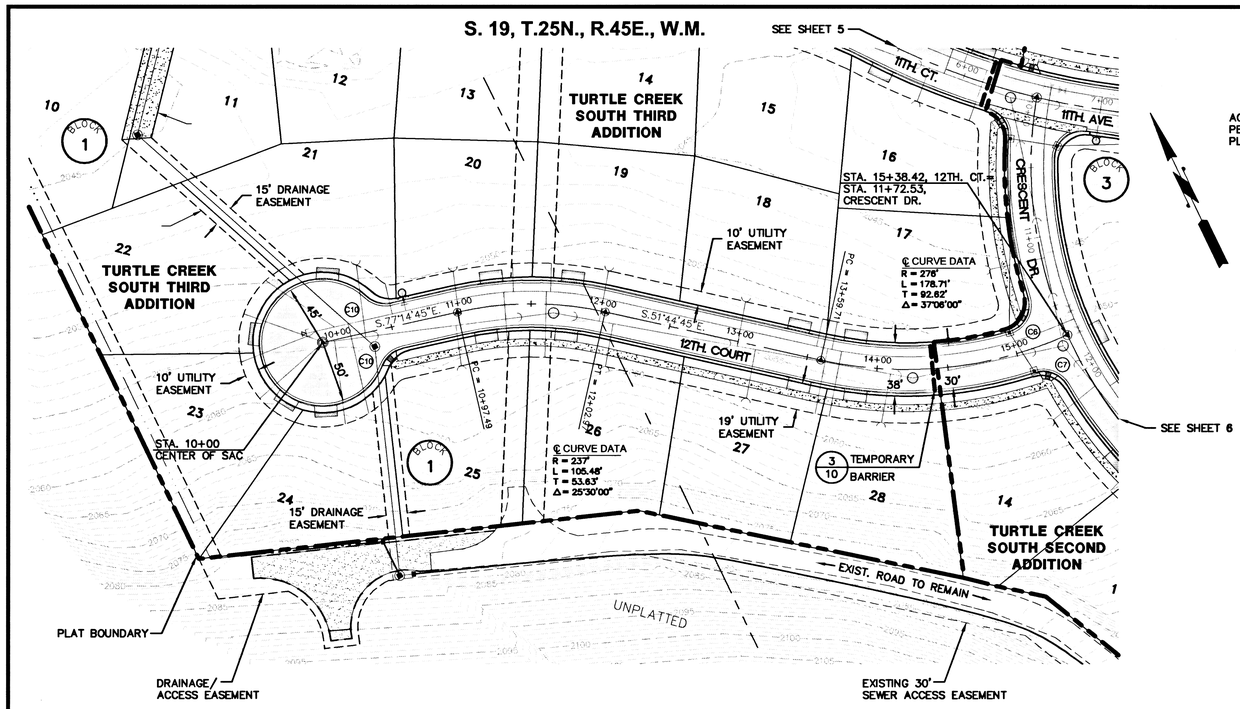
SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

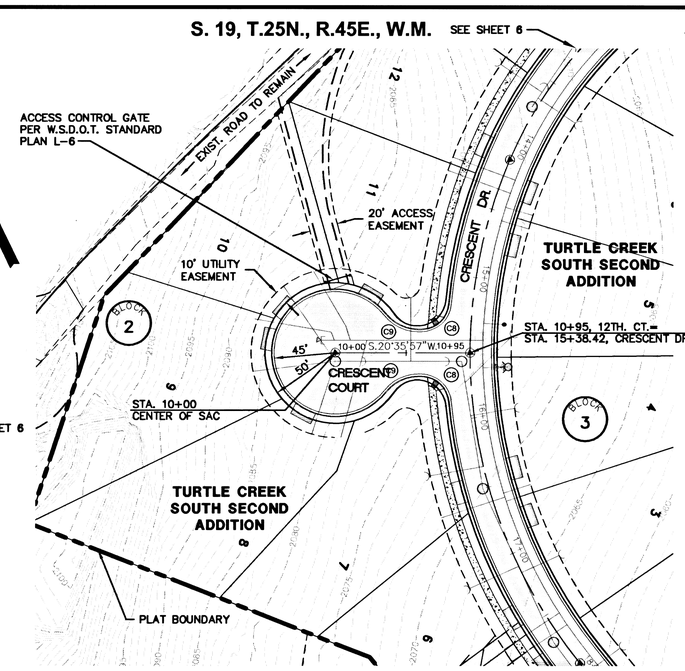
TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**CRESCENT DRIVE**
**STA. 10+00 TO STA. 19+46.08**

ROAD
SHEET 4 / 10

P.1815 B & P.1815C Eng Road & Drainage




**TBM**
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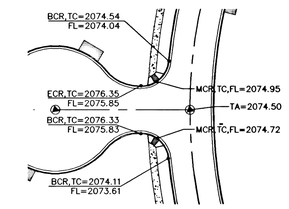
PER SPOKANE SOUTH VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

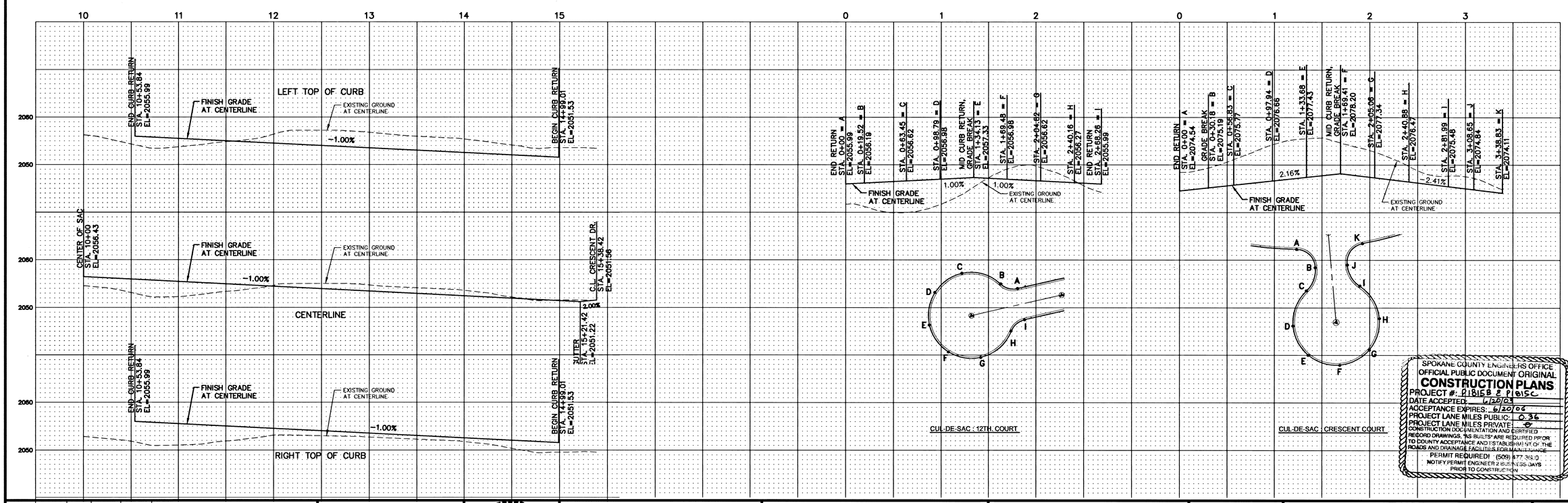
CONTOUR INTERVAL = 1 FOOT




INTERSECTION DETAIL
CRESENT DRIVE/CRESENT COURT

CURVE TABLE AT EDGE OF ASPHALT

| CURVE | RADIUS | LENGTH | DELTA |
|---|---|---|---|
| C6 | 20' | 31.89' | 91°20'43" |
| C7 | 20' | 27.08' | 77°34'38" |
| C8 | 20' | 29.53' | 84°35'32" |
| C9 | 20' | 27.10' | 51°45'53" |
| C10 | 20' | 19.52' | 55°55'35" |




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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DATE ACCEPTED: 6/20/03
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PROJECT LANE MILES PRIVATE: 0
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| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/11/03 — EXPIRES 03/10/03


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**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard Sahn Mgr. Date: 3/4/03

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 COURT B-C ROAD

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**12TH. COURT**
**STA. 10+00 TO STA. 15+38.42**

**CRESCENT COURT**
**STA. 10+00 TO STA. 10+95**

ROAD
SHEET 5 / 10

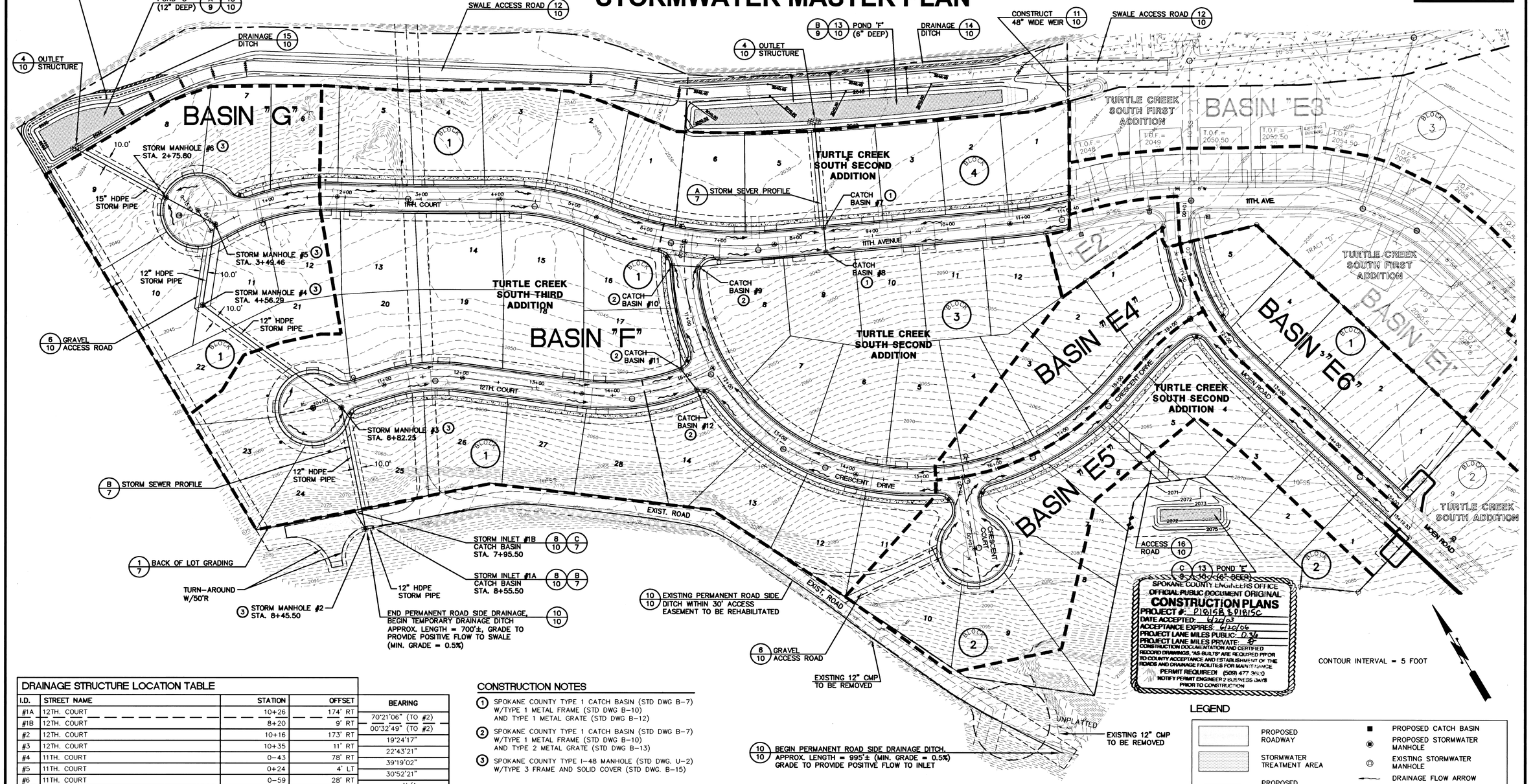
P-1815B & P1815C Eng Grad & Drainage

S. 19, T.25N., R.45E., W.M.

# TURTLE CREEK SOUTH SECOND & THIRD ADDITIONS
# STORMWATER MASTER PLAN

TBM
BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG




## DRAINAGE STRUCTURE LOCATION TABLE

| I.D. | STREET NAME | STATION | OFFSET | BEARING |
|---|---|---|---|---|
| #1A | 12TH. COURT | 10+26 | 174' RT | 70°21'06" (TO #2) |
| #1B | 12TH. COURT | 8+20 | 9' RT | 00°32'49" (TO #2) |
| #2 | 12TH. COURT | 10+16 | 173' RT | 19°24'17" |
| #3 | 12TH. COURT | 10+35 | 11' RT | 22°43'21" |
| #4 | 11TH. COURT | 0-43 | 78' RT | 39°19'02" |
| #5 | 11TH. COURT | 0+24 | 4' LT | 30°52'21" |
| #6 | 11TH. COURT | 0-59 | 28' RT | N/A |
| #7 | 11TH. AVENUE | 8+38 | 16' LT | 25°35'55" |
| #8 | 11TH. AVENUE | 8+38 | 16' RT | 66°00'37" |
| #9 | CRESCENT DRIVE | 10+34 | 18' LT | 55°32'57" |
| #10 | CRESCENT DRIVE | 10+30 | 15' RT | 25°50'53" |
| #11 | 12TH. COURT | 15+00 | 16' LT | 07°15'05" |
| #12 | 12TH. COURT | 15+08 | 16' RT | |

## CONSTRUCTION NOTES

1. SPOKANE COUNTY TYPE 1 CATCH BASIN (STD DWG B-7) W/TYPE 1 METAL FRAME (STD DWG B-10) AND TYPE 1 METAL GRATE (STD DWG B-12)
2. SPOKANE COUNTY TYPE 1 CATCH BASIN (STD DWG B-7) W/TYPE 1 METAL FRAME (STD DWG B-10) AND TYPE 2 METAL GRATE (STD DWG B-13)
3. SPOKANE COUNTY TYPE I-48 MANHOLE (STD DWG. U-2) W/TYPE 3 FRAME AND SOLID COVER (STD DWG. B-15)

## GENERAL NOTES:

1. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.

## LEGEND

- PROPOSED ROADWAY
- STORMWATER TREATMENT AREA
- PROPOSED STORMWATER DITCH
- PROJECT PHASE BOUNDARY
- —ST— PROPOSED STORM PIPE
- —ST— EXISTING STORM PIPE
- PROPOSED CATCH BASIN
- PROPOSED STORMWATER MANHOLE
- EXISTING STORMWATER MANHOLE
- DRAINAGE FLOW ARROW
- PROPOSED OUTLET STRUCTURE
- PROPOSED CURB INLET
- PROPOSED SIDEWALK INLET
- PROPOSED SIDEWALK

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

Drawn: RIE 03/06/03
Designed: RIE, GRG 03/06/03
Checked: CHM 03/06/03

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 3/11/03, EXPIRES 03/10/03

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval: Richard Mgr. Date: 3/11/03

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 MASTER STORM

60 30 0 60 120
SCALE FEET

SCALE
HORIZ. 1" = 60'
VERT. N/A

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

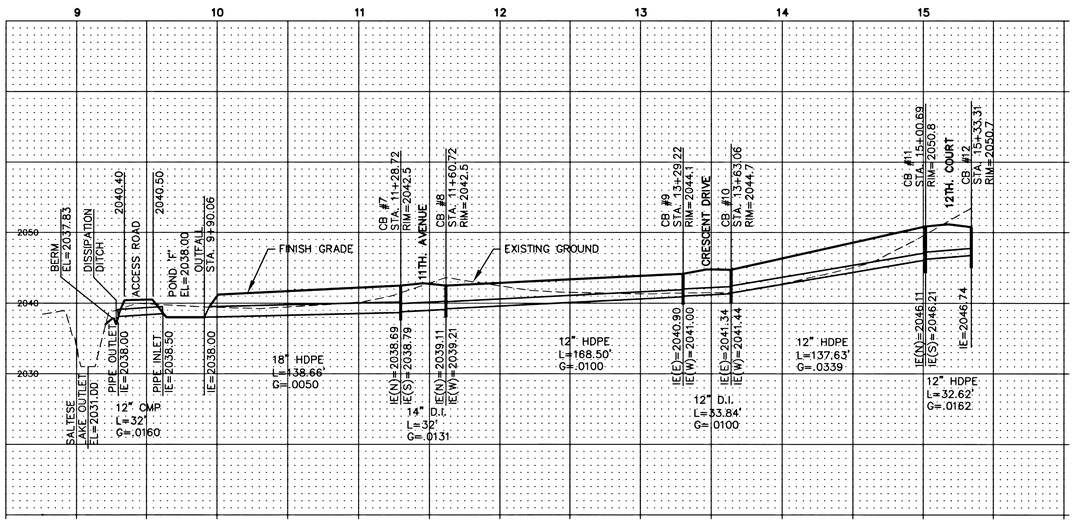
STORMWATER MASTER PLAN
SECOND AND THIRD ADDITIONS

STORM SHEET 6/10

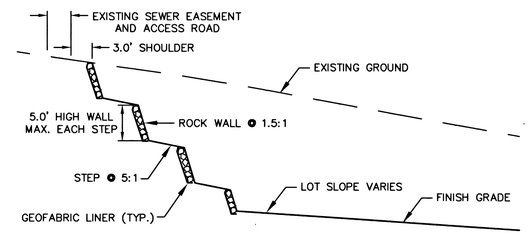
P-1815B & P1815C Eng Road & Drainage

**TBM**
BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

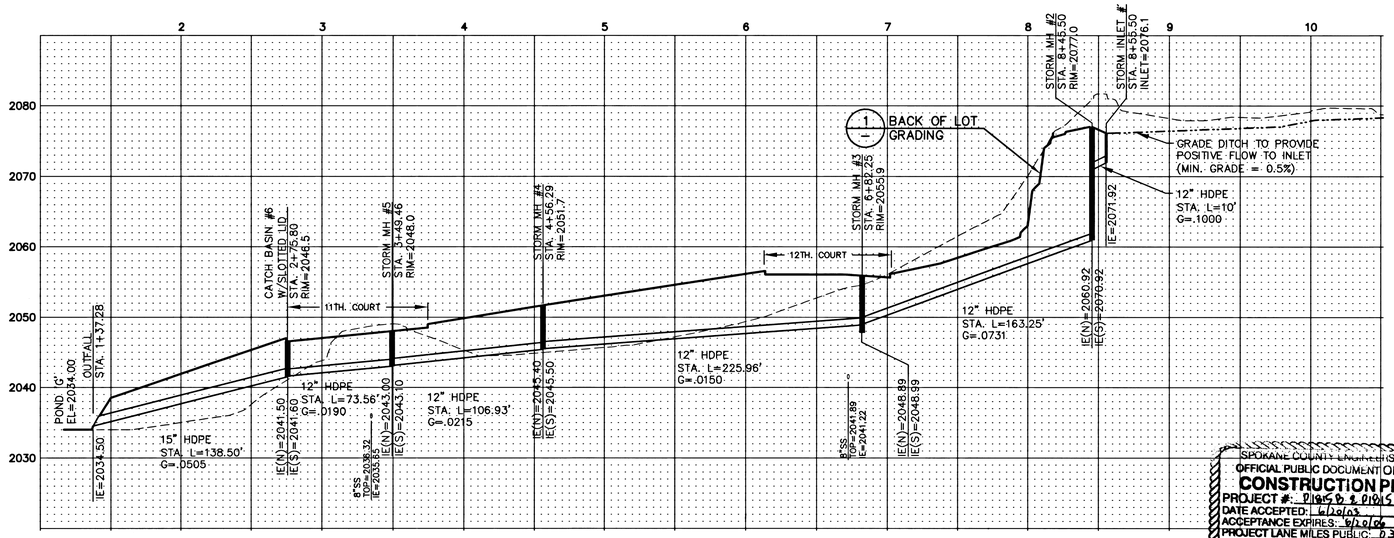
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



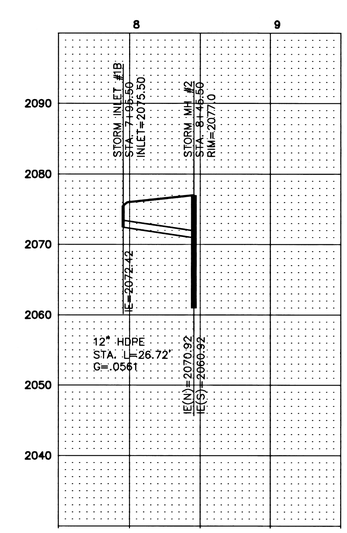

## STORM SEWER PROFILE
NOT TO SCALE
A / 6




## BACK OF LOT GRADING
NOT TO SCALE
1 / 6,7




## STORM SEWER PROFILE
NOT TO SCALE
B / 6




## STORM SEWER PROFILE
NOT TO SCALE
C / 6

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.36
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 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 3/11/03, EXPIRES 03/10/03


Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224


Developer's Approval: Richard A. Bank Mgr. Date: 3/11/03

**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 PROFILES

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 50'
VERT. 1" = 10'

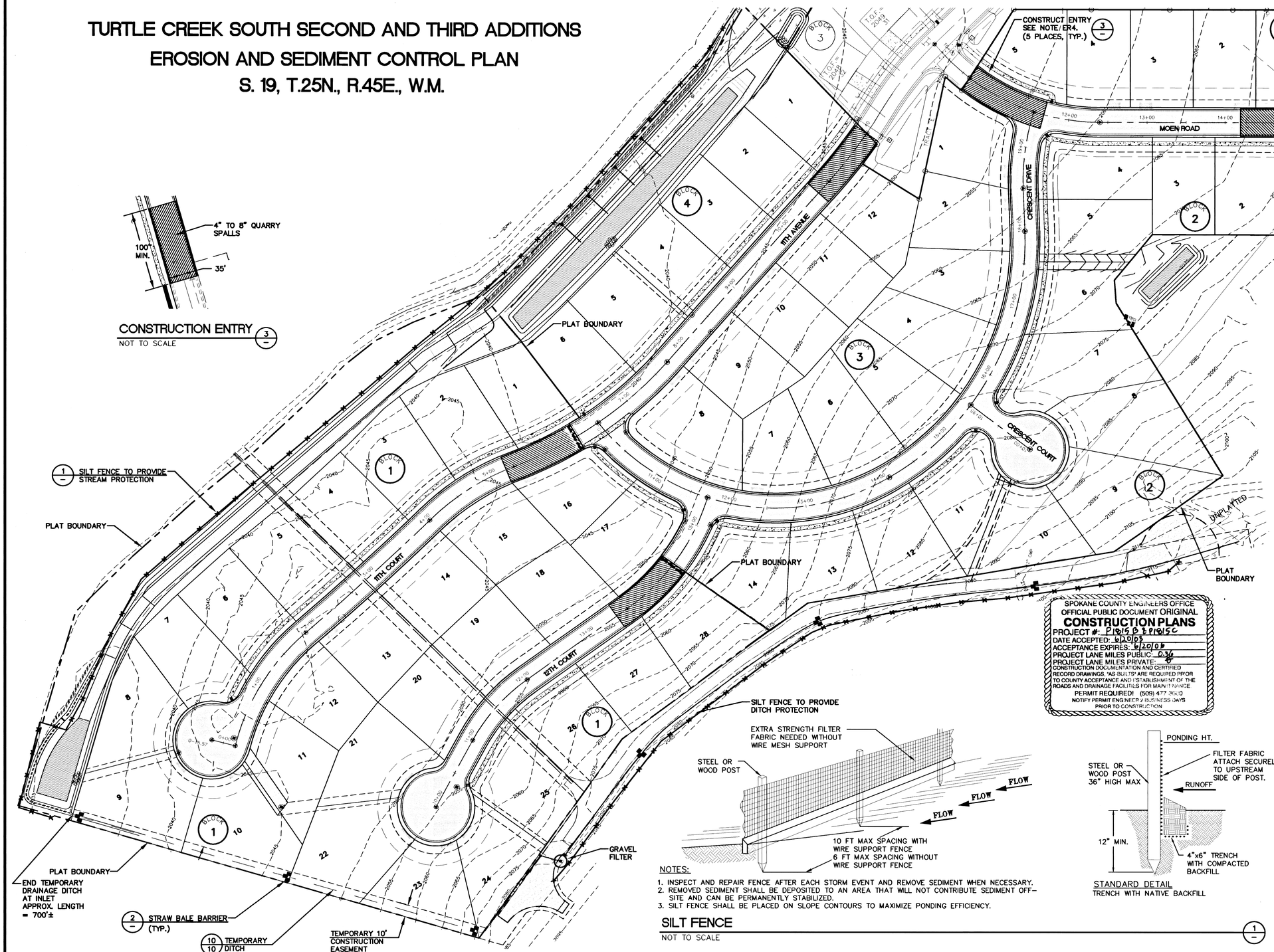
TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**STORMWATER PROFILES**

STORM
SHEET 7 / 10

P1815B + P1815C Eng Road + Drainage

# TURTLE CREEK SOUTH SECOND AND THIRD ADDITIONS
## EROSION AND SEDIMENT CONTROL PLAN
## S. 19, T.25N., R.45E., W.M.




UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONTOUR INTERVAL = 5 FOOT

**TBM**
BASED ON FOUND B.M. NO. 62 PER SPOKANE SOUTH VALLEY INTERCEPTORPLANS, CONSTRUCTION PACKAGE NO. V,SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)




CONSTRUCTION ENTRY (3/–)
NOT TO SCALE

STANDARD NOTES FOR EROSION CONTROL

ER1 AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OD THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER 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.

ER2 APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.

ER3 THE EROSION/SEDIMENTATION CONTROL 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 EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.

ER4 THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.

ER5 GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR SUPPRESSION OF DUST IN CONFORMANCE WITH SCAPCA REGULATIONS.
2. CONTRACTOR TO TAKE NECESSARY MEASURES TO AVOID TRACKING SEDIMENT OFF THE SITE OR ONTO PUBLIC RIGHT OF WAY. CONTRACTOR MAY HAVE TO CONSTRUCT A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT. ANY DEBRIS OR SEDIMENT THAT IS TRACKED OFF THE SITE SHALL BE CLEANED UP BY CONTRACTOR.
3. CONTRACTOR TO TAKE NECESSARY MEASURES TO AVOID DAMAGE TO THE SALTESE CREEK OR ITS BANKS.
4. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES WITHIN 30 DAYS AFTER STABILIZATION OF TRIBUTARY AREAS.
5. PERMANENT AND TEMPORARY DRAINAGE DITCH MUST BE CONSTRUCTED AND FUNCTIONING PRIOR TO ANY ON–SITE WORK. TEMPORARY DITCH MUST REMAIN IN PLACE AND FUNCTIONING UNTIL STORM DRAIN SYSTEM IS CONSTRUCTED AND APPROVED.
6. ALL DITCHES MUST BE MAINTAINED CLEAR OF OBSTRUCTIONS DURING CONSTRUCTION.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/08
PROJECT LANE MILES PUBLIC: 0.36
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



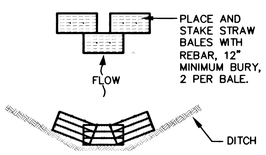

NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE (1/–)
NOT TO SCALE




STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL




PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

STRAW BALE BARRIER (2/–)
NOT TO SCALE

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/10/03 — EXPIRES 03/10/03


Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224


**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard Bob Mgr. Date: 3/11/3

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N._____ E._____
CADD FILE NAME: 02-042 EROSION CONTROL

50 25 0 50 100
SCALE FEET

SCALE
HORIZ. 1" = 60'
VERT. N/A

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**EROSION AND SEDIMENTATION CONTROL PLAN**

STORM
SHEET 8 / 10

P-1815B & P 1815C Eng Road & Drainage

TBM

BASED ON FOUND B.M. NO. 62
PER SPOKANE SOUTH VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2032.21 (NAVD88 2036.01)

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ONE-CALL NUMBER
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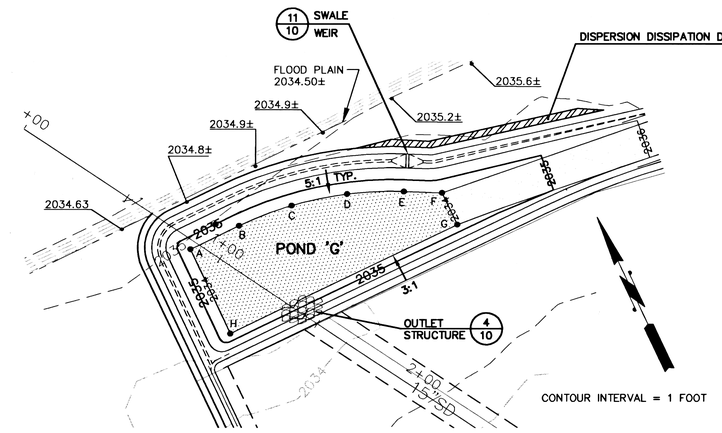
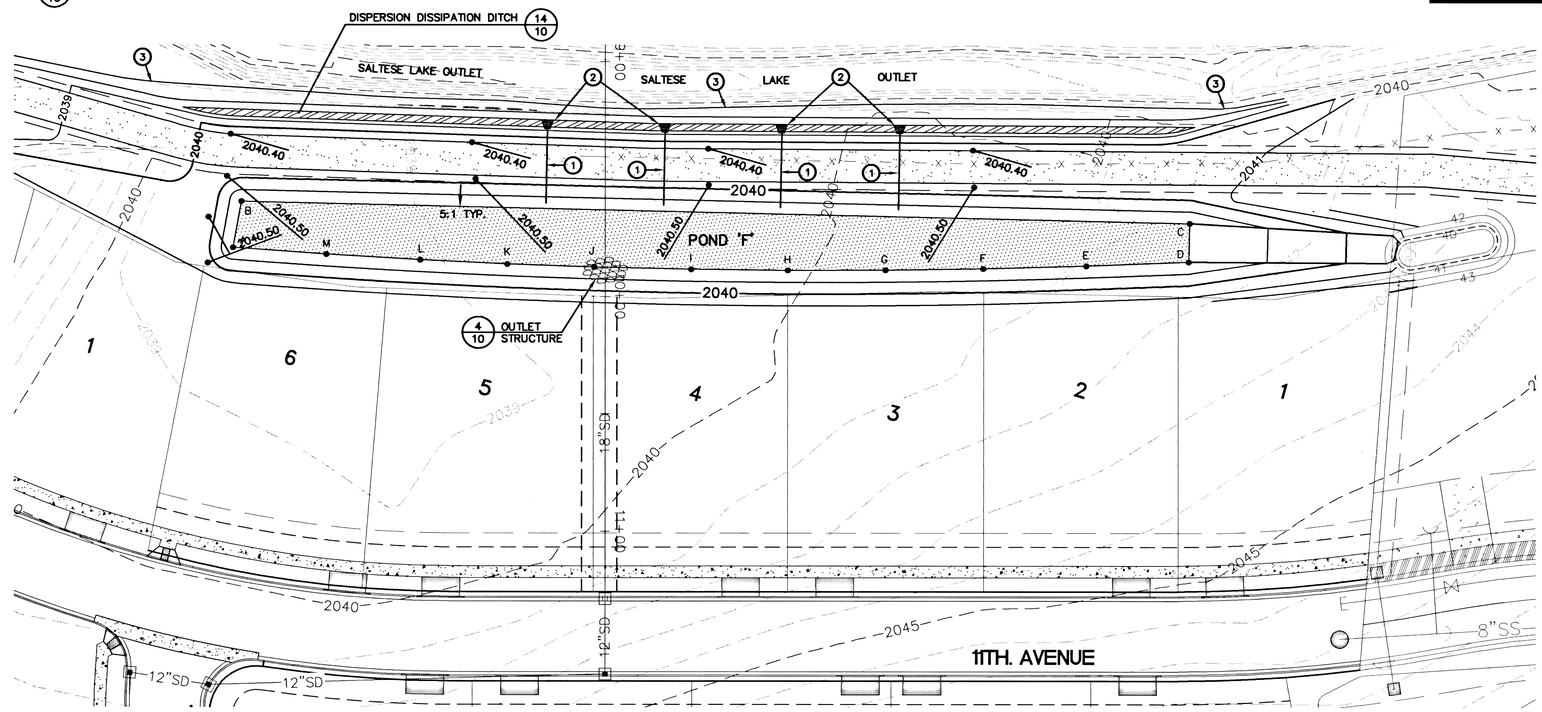



POND 'G' (A/6)
SCALE: 1" = 30'

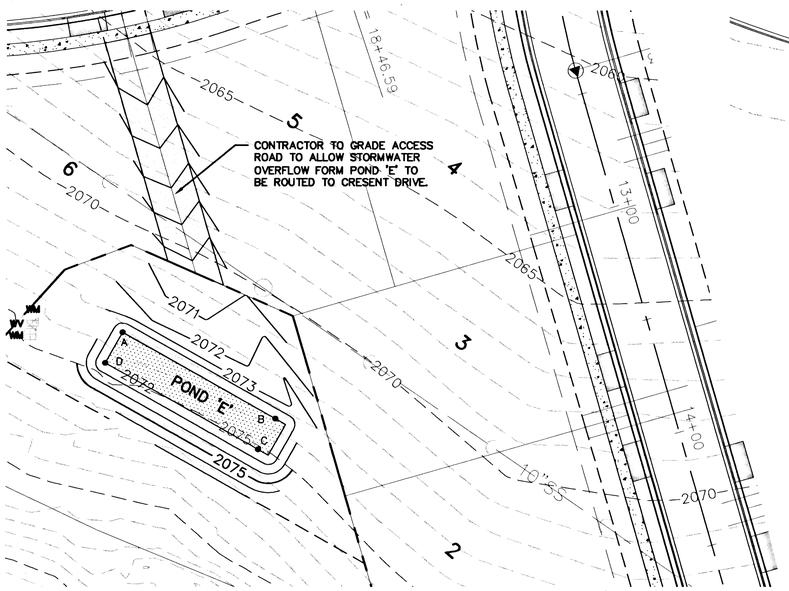
| | | | STORM PIPE STATION | OFFSET |
|---|---|---|---|---|
| BOTTOM ELEVATION | 2034.00 | A | 0+87 | 3.54' RT. |
| BOTTOM AREA | 3563.00 | B | 0+99 | 16.35' LT. |
| TOP OF BERM | 2036.50 | C | 1+13 | 35.95' LT. |
| PERIMETER | 275.00 L.F. | D | 1+30 | 53.06' LT. |
| VOLUME REQUIRED | 1835.00 C.F. | E | 1+49 | 67.24' LT. |
| VOLUME PROVIDED | 2273.00 C.F. | F | 1+63 | 75.71' LT. |
| | | G | 1+76 | 68.00' LT. |
| | | H | 1+21 | 23.95' RT. |




POND 'F' (B/6)
SCALE: 1" = 30'

| | | | STORM PIPE STATION | OFFSET | | STORM PIPE STATION | OFFSET |
|---|---|---|---|---|---|---|---|
| BOTTOM ELEVATION | 2038.00 | A | 9+79 | 158.22' RT. | H | 9+89 | 78.05' LT. |
| BOTTOM AREA | 9000.00 | B | 9+60 | 154.62' RT. | I | 9+88 | 36.69' LT. |
| TOP OF BERM | 2040.50 | C | 9+69 | 248.83' LT. | J | 9+87 | 4.63' RT. |
| PERIMETER | 846.97 L.F. | D | 9+85 | 248.46' LT. | K | 9+86 | 41.47' RT. |
| VOLUME REQUIRED | 4219.00 C.F. | E | 9+87 | 204.63 LT. | L | 9+85 | 78.28' RT. |
| VOLUME PROVIDED | 4989.00 C.F. | F | 9+88 | 160.79' LT. | M | 9+82 | 118.27' RT. |
| | | G | 9+89 | 119.42' LT. | | | |

CONTOUR INTERVAL = 1 FOOT




POND 'E' (C/6)
SCALE: 1" = 30'

| | | | MOEN RD. STATION | OFFSET |
|---|---|---|---|---|
| BOTTOM ELEVATION | 2072.00 | A | 12+98 | 214.86' RT. |
| BOTTOM AREA | 1200.00 | B | 13+51 | 162.34' RT. |
| TOP OF BERM | 2073.00 | C | 13+62 | 173.05' LT. |
| PERIMETER | 190.00 L.F. | D | 13+08 | 225.57' LT. |
| VOLUME REQUIRED | 1360.00 C.F. | | | |
| VOLUME PROVIDED | 1605.00 C.F. | | | |

CONTOUR INTERVAL = 1 FOOT

## GENERAL NOTES:

1. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SWALE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALE, AND THE SIDESLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR.
2. ALL PONDS AND DISTURBED AREAS SHALL BE SEEDED W/DRYLAND SEED MIX AS FOLLOWS:

   DRYLAND SEED MIX REQUIREMENTS

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

   10 PERCENT ELKA PERENNIAL RYE
   20 PERCENT DURAR HARD FESCUE
   45 PERCENT COVAR SHEEP/FESCUE
   15 PERCENT REUBENS 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 STANDARD SPECIFICATIONS, SEC. 8-01.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1015B & P1015C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.36
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

## CONSTRUCTION NOTES

1. 32 LINEAR FEET OF 12" DIAMETER, 12 GAUGE CORRUGATED METAL PIPE.
2. RIP-RAP PAD (2/10)
3. GRADE UNIFORMLY TO ELEV. 2037.00.

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|

| | | Date |
|---|---|---|
| Drawn: | RIE | 03/06/03 |
| Designed: | RIE | 03/06/03 |
| Checked: | CHM | 03/06/03 |

MARK A. ARONSON, STATE OF WASHINGTON, 24681, REGISTERED PROFESSIONAL ENGINEER, 3/11/03, EXPIRES 03/10/03

Taylor Engineering, Inc.
Civil Design and Land Planning
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Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard O'Bohn Mgr. Date: 3/11/3

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N.____ E.____
CADD FILE NAME: 02-042 Pond Details
30 15 0 30 60
SCALE FEET

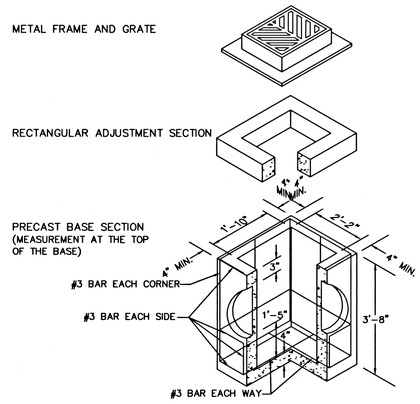
SCALE
HORIZ. 1" = 30'
VERT. N/A

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**DRAINAGE POND DETAILS**

STORM SHEET 9/10

P-1815B & P1815C Eng Road + Drainage

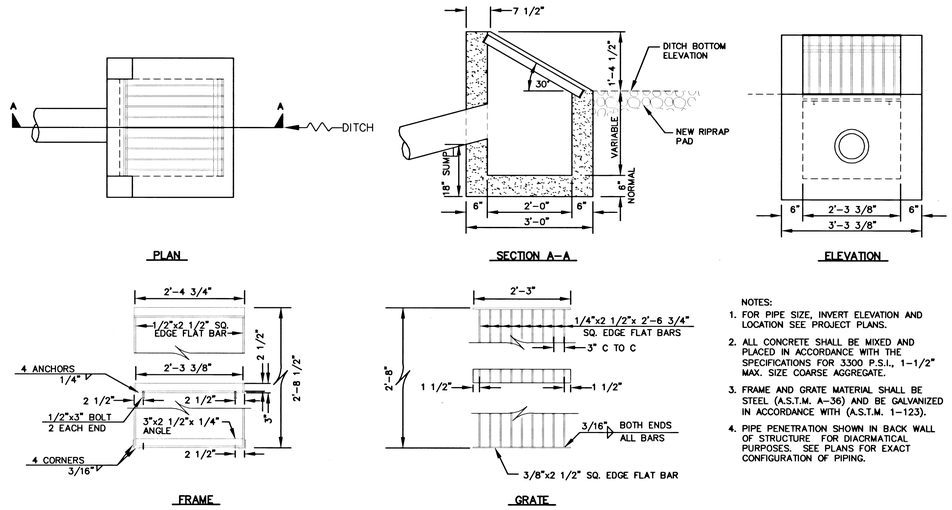



NOTES:

1. CATCH BASINS TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) & ASTM C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A 497 (AASHTO M 221). WIRE FABRIC SHALL NO BE PLACED IN THE KNOCKOUTS.
3. THE BOTTOM OF THE PRECAST SECTION MAY BE ROUNDED.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN.
5. KNOCKOUTS MAY BE ON ALL 4 SIDES WITH A MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPED. PIPE TO BE INSTALLED IN FACTORY SUPPLIED KNOCKOUTS.
6. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
7. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATIONS RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT.
10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.

## SPOKANE COUNTY TYPE 1 CATCH BASIN (SPOKANE COUNTY STANDARD DRAWING B-5) — 1/3

NOT TO SCALE




SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1815B & P1815C
DATE ACCEPTED: 6/20/03
ACCEPTANCE EXPIRES: 6/20/06
PROJECT LANE MILES PUBLIC: 0.38
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

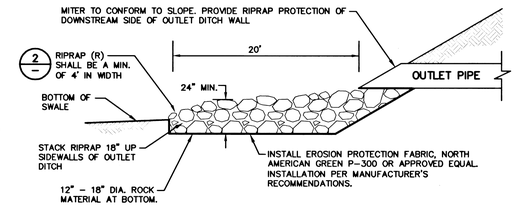
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456·8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

## DITCH INLET CATCH BASIN — 8/6

NOT TO SCALE

NOTES:

1. FOR PIPE SIZE, INVERT ELEVATION AND LOCATION SEE PROJECT PLANS.
2. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS FOR 3300 P.S.I., 1-1/2" MAX. SIZE COARSE AGGREGATE.
3. FRAME AND GRATE MATERIAL SHALL BE STEEL (A.S.T.M. A-36) AND BE GALVANIZED IN ACCORDANCE WITH (A.S.T.M. 1-123).
4. PIPE PENETRATION SHOWN IN BACK WALL OF STRUCTURE FOR DIACRMATICAL PURPOSES. SEE PLANS FOR EXACT CONFIGURATION OF PIPING.



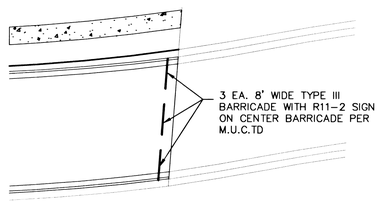

## RIP-RAP PAD — 9/–

NOT TO SCALE

| DIM | DESCRIPTION | POND 'F' | POND 'G' |
|---|---|---|---|
| L | PAD LENGTH | 8.50' | 17.50' |
| W1 | TOP WIDTH | 4.50' | 3.75' |
| W2 | BOTTOM WIDTH | 13.00' | 21.00' |
| R | ROCK DIA. | 4" | 8" |
| | | | |

## RIP-RAP DESIGN TABLE — 2/–

NOT TO SCALE

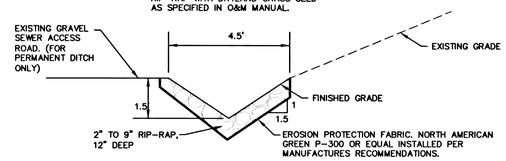



## TEMPORARY BARRIER — 3/–

NOT TO SCALE

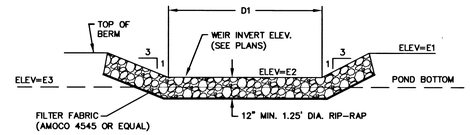
3,4,5

NOTE:
PLANT DISTURBED AREAS OUTSIDE RIP-RAP WITH DRYLAND GRASS SEED AS SPECIFIED IN O&M MANUAL.




## ROAD SIDE DRAINAGE DITCH — 10/6

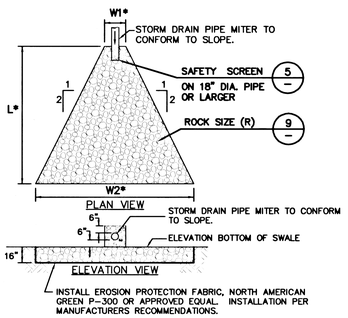
NOT TO SCALE




| DIM | POND 'E' | POND 'G' | DESCRIPTION |
|---|---|---|---|
| D1 | N/A | 15" | WEIR WIDTH |
| E1 | 2073.00 | 2036.50 | TOP OF BERM |
| E2 | N/A | 2034.50 | WEIR ELEVATION |
| E3 | 2072.00 | 2034.00 | SWALE BOTTOM |

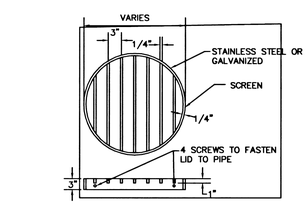
## SWALE WEIR — 11/6,9

NOT TO SCALE




## OUTLET STRUCTURE — 4/6

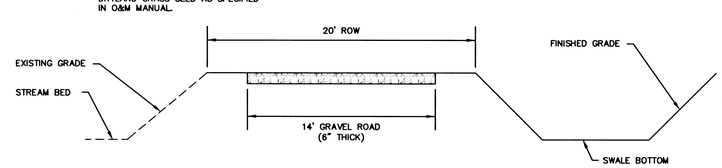
NOT TO SCALE




## SAFETY SCREEN — 5/–

NOT TO SCALE

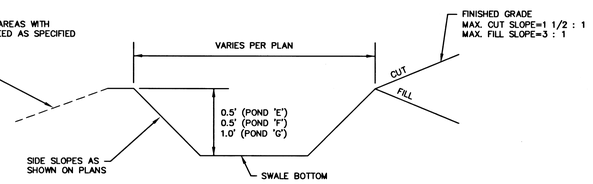
NOTE:
PLANT DISTURBED AREAS WITH DRYLAND GRASS SEED AS SPECIFIED IN O&M MANUAL.




## ROAD SIDE DRAINAGE DITCH — 10/6

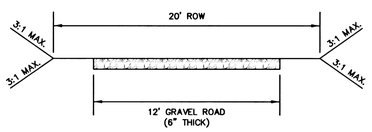
NOT TO SCALE

NOTE:
PLANT DISTURBED AREAS WITH DRYLAND GRASS SEED AS SPECIFIED IN O&M MANUAL.



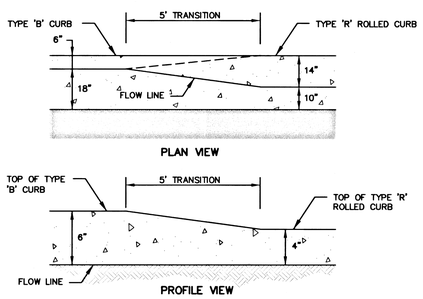

## SWALE WEIR — 11/6,9

NOT TO SCALE




## TYPICAL GRAVEL ACCESS ROAD — 6/6

NOT TO SCALE



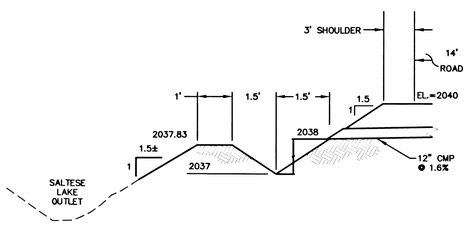

## CURB TRANSITION — 7/–

NOT TO SCALE

2,3,4

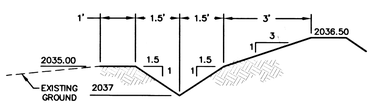
## POND 'F' AND 'G' ACCESS ROAD — 12/6

NOT TO SCALE



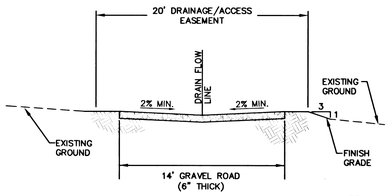

## DISPERSION DISSIPATION DITCH — 14/6,9

NOT TO SCALE




## DISPERSION DISSIPATION DITCH — 15/6,9

NOT TO SCALE




## POND 'E' ACCESS ROAD — 16/–

NOT TO SCALE

| No. | Date | By | Ckd. | Appr. | Revisions |
|---|---|---|---|---|---|
| | | | | | |

Drawn: RIE — Date 03/06/03
Designed: RIE — 03/06/03
Checked: CHM — 03/06/03

MARK A. ARONSON — STATE OF WASHINGTON — 24681 — REGISTERED PROFESSIONAL ENGINEER — 3/11/03 — EXPIRES 03/10/03

Taylor Engineering, Inc.
Civil Design and Land Planning
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

**SPOKANE COUNTY PUBLIC WORKS**
**DIVISION OF ENGINEERING AND ROADS**
W. 1026 Broadway Ave.
Spokane Wa. 99260
509-477-3600

Developer's Approval: Richard Hahn Mgr. Date: 3/11/3

VERTICAL DATUM: COUNTY BM No. 62 EL. 2032.21 (NAVD88 2036.01)
HORIZONTAL DATUM: NAD 83 N._____ E._____
CADD FILE NAME: 02-042 Details ROAD & DRAIN

SCALE
HORIZ. N/A
VERT. N/A

TURTLE CREEK SOUTH
SECOND AND THIRD ADDITIONS

**ROAD AND DRAINAGE DETAILS**

DETAIL
SHEET 10/10

P1815B & P1815C Eng Road + Drainage