

# MORNINGSIDE HEIGHTS 4TH ADDITION

SPOKANE COUNTY, WASHINGTON

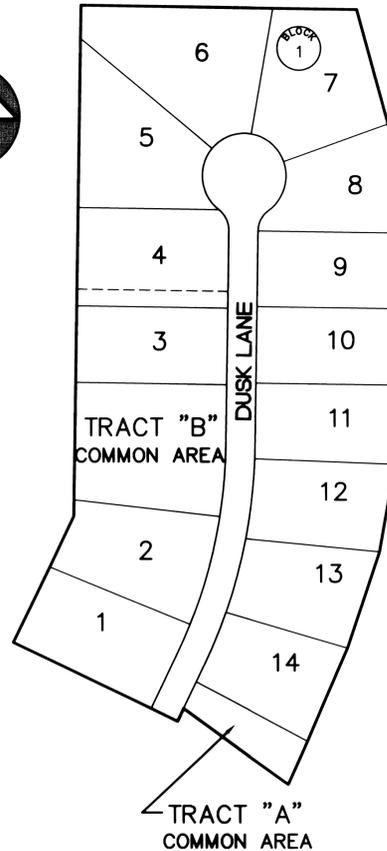
SECTION 30, T. 25N., R. 45E., W.M.

## INDEX OF DRAWINGS

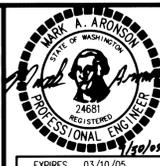
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	DUSK LANE STA. 19+20.51 TO STA. 25+74.49
3	STORM POND DETAIL SHEET
4	STORM POND LINER DETAIL SHEET
5	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (NOT INCLUDED)

### LEGEND

2353	EXISTING CONTOUR
---	EASEMENT LINE
BT	EXISTING BURIED TELEPHONE
---	EXISTING BURIED GAS PIPELINE
oe	EXISTING OVERHEAD ELECTRICAL
-x-x-x-x-	EXISTING FENCE
-w-	EXISTING WATER LINE
-ss-	EXISTING SEWER LINE
-sd-	EXISTING STORM DRAIN LINE
M	EXISTING WATER VALVE
H	EXISTING WATER LINE FITTING (TYP.)
α	EXISTING FIRE HYDRANT
⊞	EXISTING WATER METER AND SERVICE
-s-	EXISTING SIGN
○	EXISTING SANITARY SEWER MANHOLE
---	PLAT BOUNDARY
---	LOT LINE
-w-	NEW WATER LINE
-ss-	NEW SANITARY SEWER LINE
-sd-	NEW STORM DRAIN LINE
---	NEW ASPHALT PAVEMENT REPLACEMENT
M	NEW WATER VALVE
▼	NEW CONCRETE THRUST BLOCK
H	NEW WATER LINE FITTING (TYP.)
●	NEW SANITARY SEWER MANHOLE
⊙	NEW STORM DRAIN MANHOLE
■	NEW STORM DRAIN CATCH BASIN



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



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.

**Taylor Engineering, Inc.**  
Civil Design and Land Planning  
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. 99260-0170  
477-3600

VERTICAL DATUM: REBAR W/PC, L.S.#1809, @ CENTERLINE OF CHAPMAN RD. 120' ± EAST OF THE INTERSECTION OF DAYBREAK LANE AND CHAPMAN RD. EL. = 2341.84 (NAVD 88)

CADD FILE NAME: 03119-MSH4-COV

SCALE

HORIZ. N/A  
VERT. N/A

MORNINGSIDE HEIGHTS

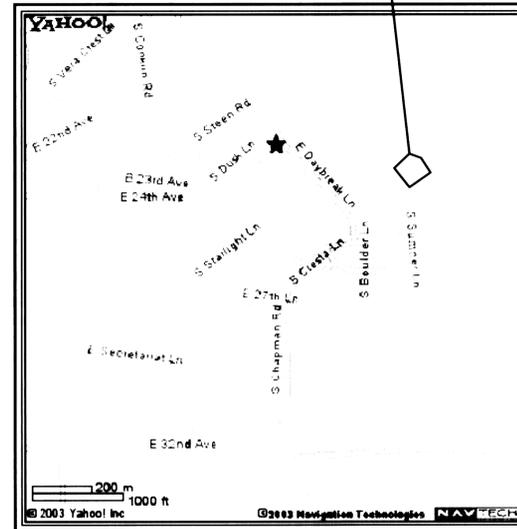
COVER SHEET

COVER

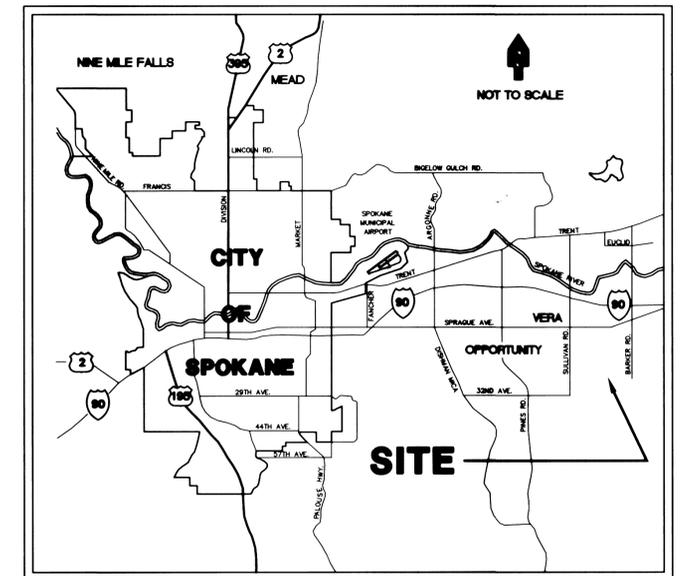
SHEET

1  
5

### PROJECT SITE



### VICINITY MAP



### LOCATION MAP

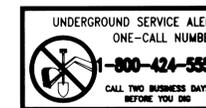
#### GENERAL NOTES:

- ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AS AMENDED, AND PER THE "2000 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (W.S.D.O.T.) AND BY THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
- LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLAN 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. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF POWER POLES, LIGHTS, TELEPHONE, AND/OR OTHER UTILITIES THAT MAY CONFLICT WITH THE CONSTRUCTION.
- 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, CONTRACTOR SHALL ALSO MAINTAIN ON THE SITE A COMPLETE SET OF RED LINE RECORD DRAWINGS INDICATING ALL CHANGES FROM THE APPROVED DRAWINGS.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. 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.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ADJACENT EXISTING PROPERTIES OR IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR CLEAN-UP OF ANY AREAS DISTURBED BY HIS ACTIVITIES.
- SITE EXCAVATION, INCLUDING ROCK CUTS AND REMOVAL, SHALL CONFORM TO SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENTS TO BE CONSTRUCTED ACCORDING TO THE APPLICABLE PARAGRAPHS OF SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EARTH EMBANKMENTS TO BE CONSTRUCTED USING METHOD B OF 2-03.3(14)C.
- ALL FILL IN AREAS OUTSIDE OF PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY. PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95%.
- 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.
- ALL PROPOSED ROADWAY AREAS SHALL BE STRIPPED TO A DEPTH OF AT LEAST 12" OF ALL VEGETATION, NEAR-SURFACE ROOTS, ANY EXISTING FILL, AND TOPSOIL. THE STRIPPED MATERIAL CAN BE RE-USED FOR LANDSCAPING, BUT IS NOT ACCEPTABLE FOR STRUCTURAL FILL.
- NATIVE MATERIALS, EXCLUDING TOPSOIL, IS ACCEPTABLE FOR USE AS STRUCTURAL FILL. IF STRUCTURAL FILL IS IMPORTED IT SHALL CONSIST OF WELL-GRADED SAND AND GRAVEL WITH NO PARTICLES LARGER THAN FIVE INCHES IN DIAMETER AND NOT MORE THAN 30% BY WEIGHT PASSING THE #200 SIEVE. STRUCTURAL FILL SHALL BE PLACED IN MAX. 8 INCH LIFTS WITHIN 2% OF OPTIMUM MOISTURE AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.
- THE TOP 12 INCHES OF THE ROAD SUBGRADE SHALL BE MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
- CRUSHED SURFACING TOP COURSE SHALL CONFORM TO WSDOT STANDARDS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY.
- ASPHALT CONCRETE SHALL BE WSDOT CLASS B AND COMPACTED TO 92% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED BY THE RICE METHOD.
- DURING CONSTRUCTION, THE GROUND SURFACE SHOULD BE SLOPED TO PREVENT STORM RUNOFF FROM ACCUMULATING IN ANY OF THE SUBGRADE AREAS. ANY AREAS OF SOFTENED SUBGRADE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.



#### UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

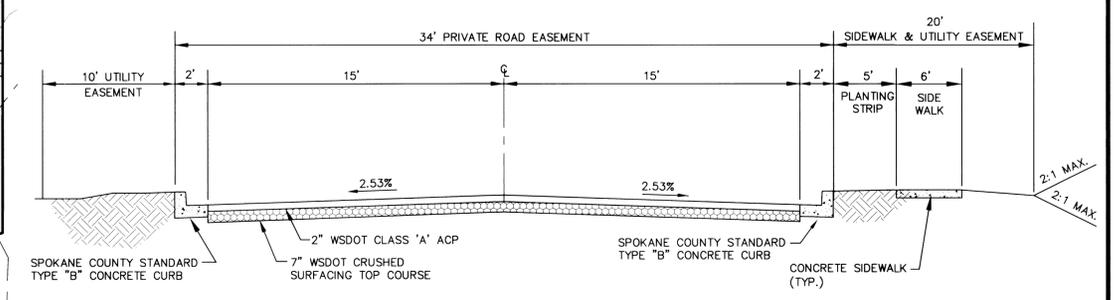
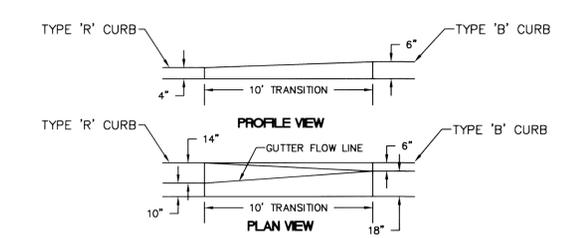
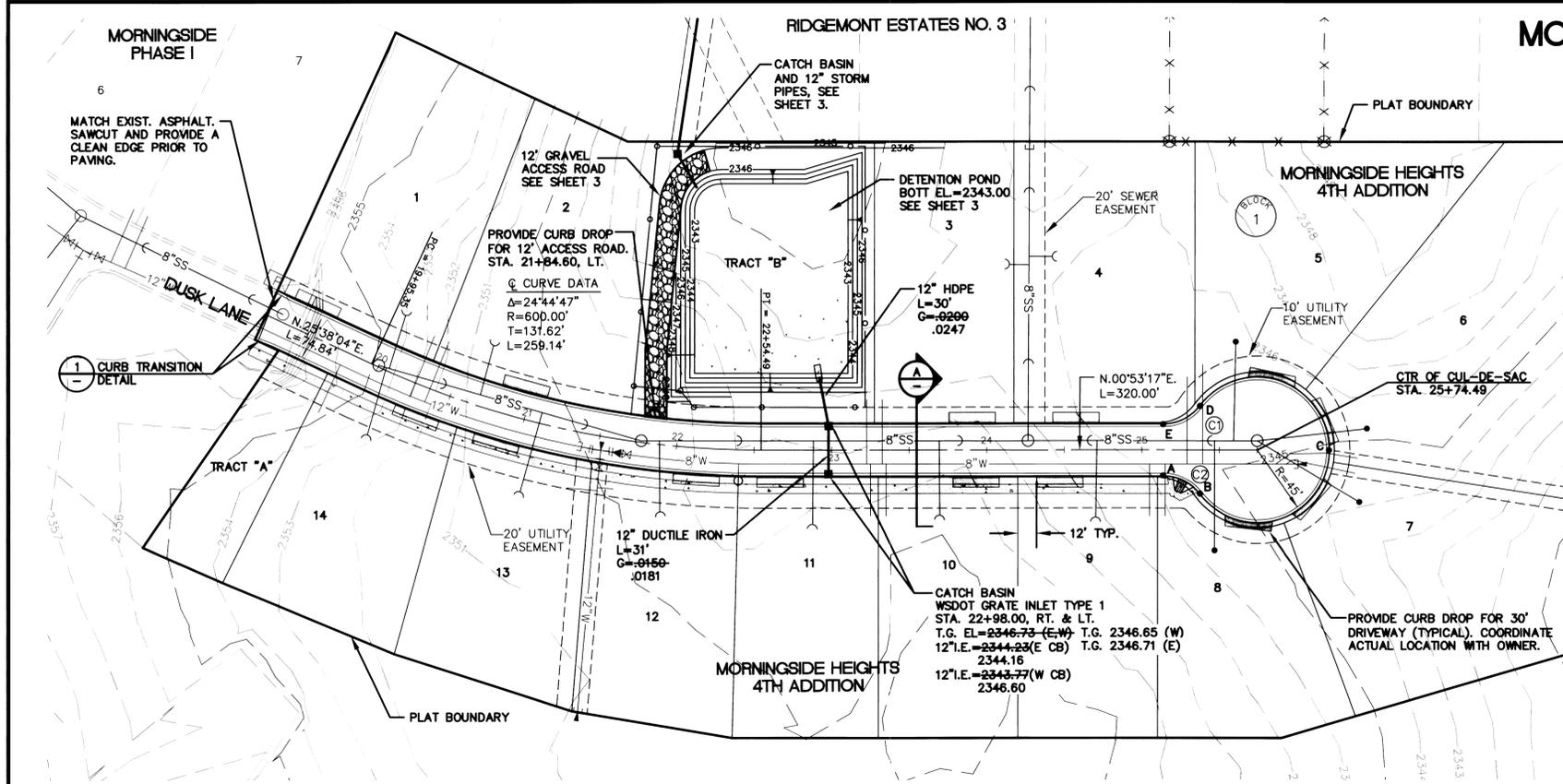
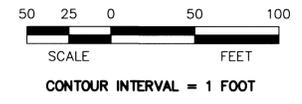


No.	Date	By	Ckd.	Appr.	Revisions
1	2/04	DWC	GRG	MAA	COUNTY COMMENTS 2/12/04
2	2/04	DWC	GRG	MAA	COUNTY COMMENTS 2/28/04
3	9/05	KWE	GRG	MAA	RECORD DRAWING

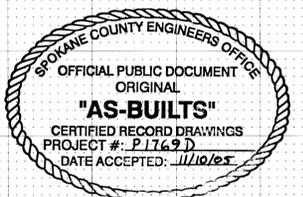
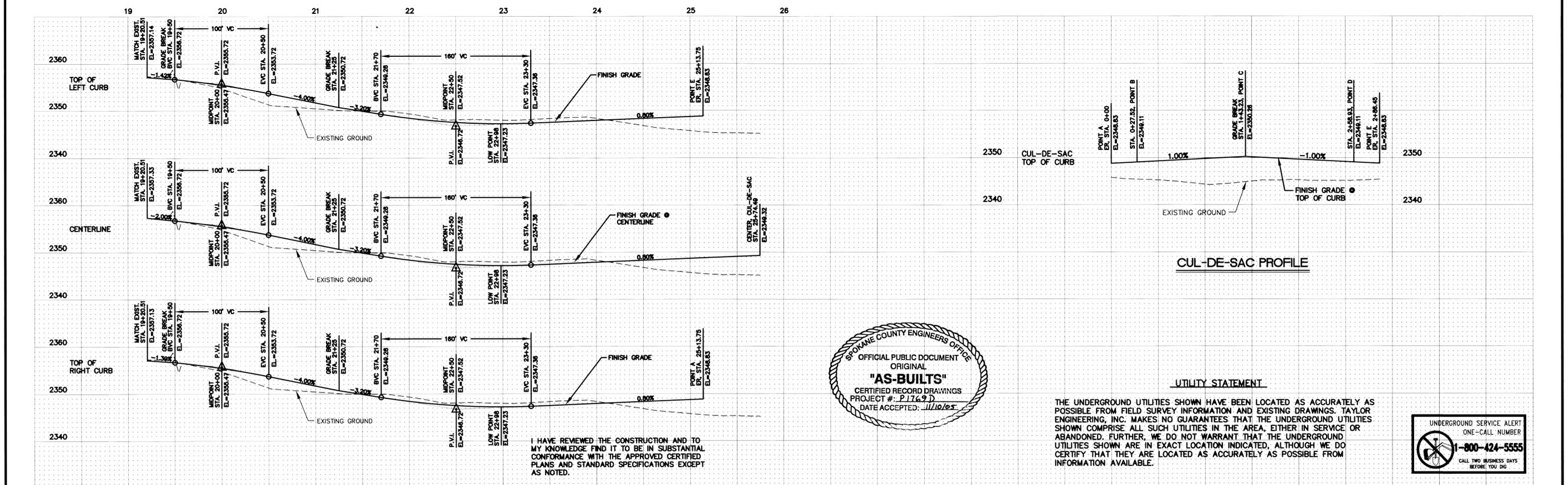
Drawn	Date
CWD	1/28/04
Designed	
GRG	1/28/04
Checked	
MAA	1/28/04

P-1769D Eng As Built

**MORNINGSIDE HEIGHTS 4TH ADDITION**  
**S. 25, T.25N., R.44E., W.M.**



CURB RETURN DATA - FACE OF CURB (THIS SHEET ONLY)				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	30.00'	27.52'	14.82'	52°33'59"
C2	30.00'	27.52'	14.82'	52°33'59"



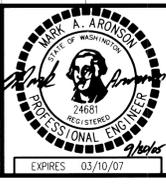
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3	9/05	KWE	GRG	MAA	RECORD DRAWING

Drawn	Date
CWD	1/28/04
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GRG	1/28/04
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 Spokane, Wa. 99260  
 477-3604

VERTICAL DATUM: REBAR W/YPG, L.S.#1809, @ CENTERLINE OF CHAPMAN RD. 120'± EAST OF THE INTERSECTION OF DAYBREAK LANE AND CHAPMAN RD. EL = 2341.84 (NAVD 88)

CADD FILE NAME: 03119R15

**SCALE**

HORIZ. 1"=50'

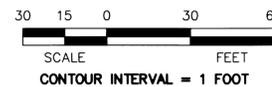
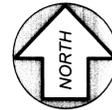
VERT. 1"=10'

MORNINGSIDE HEIGHTS 4TH ADD.	ROAD
DUSK LANE STA. 19+20.51 TO STA. 25+74.49	SHEET 2 / 5

P-1769D Eng As-Built

# MORNINGSIDE HEIGHTS 4TH ADDITION

S. 25, T.25N., R.44E., W.M.



### DETENTION AND CONSTRUCTION NOTES:

1. THE POND BOTTOM SHALL BE CUT FROM NATIVE ON-SITE SOILS AND COMPACTED PRIOR TO INSTALLING THE 4" BEDDING SAND LAYER.
2. POND BERMS MAY BE CONSTRUCTED USING ANY NATIVE ON-SITE SOILS EXCEPT THE ON-SITE TOP SOIL MATERIAL.
3. IF IMPORTED MATERIAL IS USED TO CONSTRUCT THE POND BERMS, THE MATERIAL SHALL CONSIST OF A SAND AND GRAVEL MATERIAL WITH NO PARTICLES LARGER THAN 5 INCHES IN DIAMETER AND NOT MORE THAN 30% PASSING THE #200 SIEVE.
4. TREATMENT/DETENTION POND SHALL EMPLOY A 30 MIL PVC LINER COVERED BY A 12" LAYER OF SANDY SOIL. FIELD SEAMS IN THE LINER SHALL BE MADE WITH THE MANUFACTURER'S RECOMMENDED ADHESIVE ACCORDING TO THE RECOMMENDED PROCEDURES TO PROVIDE A MAXIMUM PERMIBILITY RATE OF 1.0X10-7 CM/SEC. CONTRACTOR SHALL FURNISH SEAMING PROCEDURES, FLASHING METHODS AND BACKFILLING METHODS TO THE OWNER'S ENGINEER.
5. THE SURFACE OF THE LINER SUBGRADE SHALL BE PREPARED BY EXCAVATING TO THE ELEVATION REQUIRED BY THE DRAWINGS. THE SUBGRADE SHALL BE FREE FROM LOOSE EARTH, ROCK, COBBLES, RUBBISH, OR OTHER FOREIGN MATERIALS.
6. SUBGRADE SHALL BE COMPACTED TO 90% OF MAX. MODIFIED PROCTOR DENSITY AND INSPECTED BY THE OWNER'S ENGINEER PRIOR TO INSTALLATION OF THE BEDDING SAND. AREAS WITH EXPOSED ROCK OR COBBLES SHALL BE OVER EXCAVATED A MINIMUM OF 3" AND BACKFILLED WITH A FINE GRAINED MATERIAL.
7. BEDDING SAND SHALL BE PLACED IN A UNIFORM 4" DEPTH OVER THE ENTIRE AREA TO BE COVERED WITH THE LINER.
8. ADJACENT TO CONCRETE INLET STRUCTURE, THE CONTRACTOR SHALL TERMINATE THE LINER MEMBRANE A MINIMUM OF 12" ABOVE THE DESIGN WATER ELEVATION OF THE LINER. THE LINER SHALL BE FASTENED TO THE STRUCTURE USING THE MANUFACTURER'S APPROVED METHOD.
9. THE EARTH COVER OVER THE POND LINER SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL REASONABLY FREE OF SUBSURFACE SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS AND STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. NO MORE THAN 10% ROCK FRAGMENTS SHALL BE PRESENT IN THE EARTH COVER.

### DRAINAGE NOTES:

1. 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.
2. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 1995, AND AS AMENDED.
3. 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.
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. GRATE INLET TYPE 1 IS PER WSDOT STANDARD PLAN B-4b.
7. ALL STORM SEWER PIPE AND FITTINGS SHALL BE EITHER DUCTILE IRON CLASS 50 OR HIGH DENSITY POLY ETHYLENE (HDPE) THAT MEETS THE REQUIREMENTS OF AASHTO M 294 TYPE S OR D.
8. ALL POND SIDE SLOPES AND OTHER DISTURBED AREAS, EXCLUDING THE POND BOTTOM, SHALL BE SEEDED W/DRYLAND GRASS SEED MIX AS FOLLOWS:

### DRYLAND SEED MIX REQUIREMENTS:

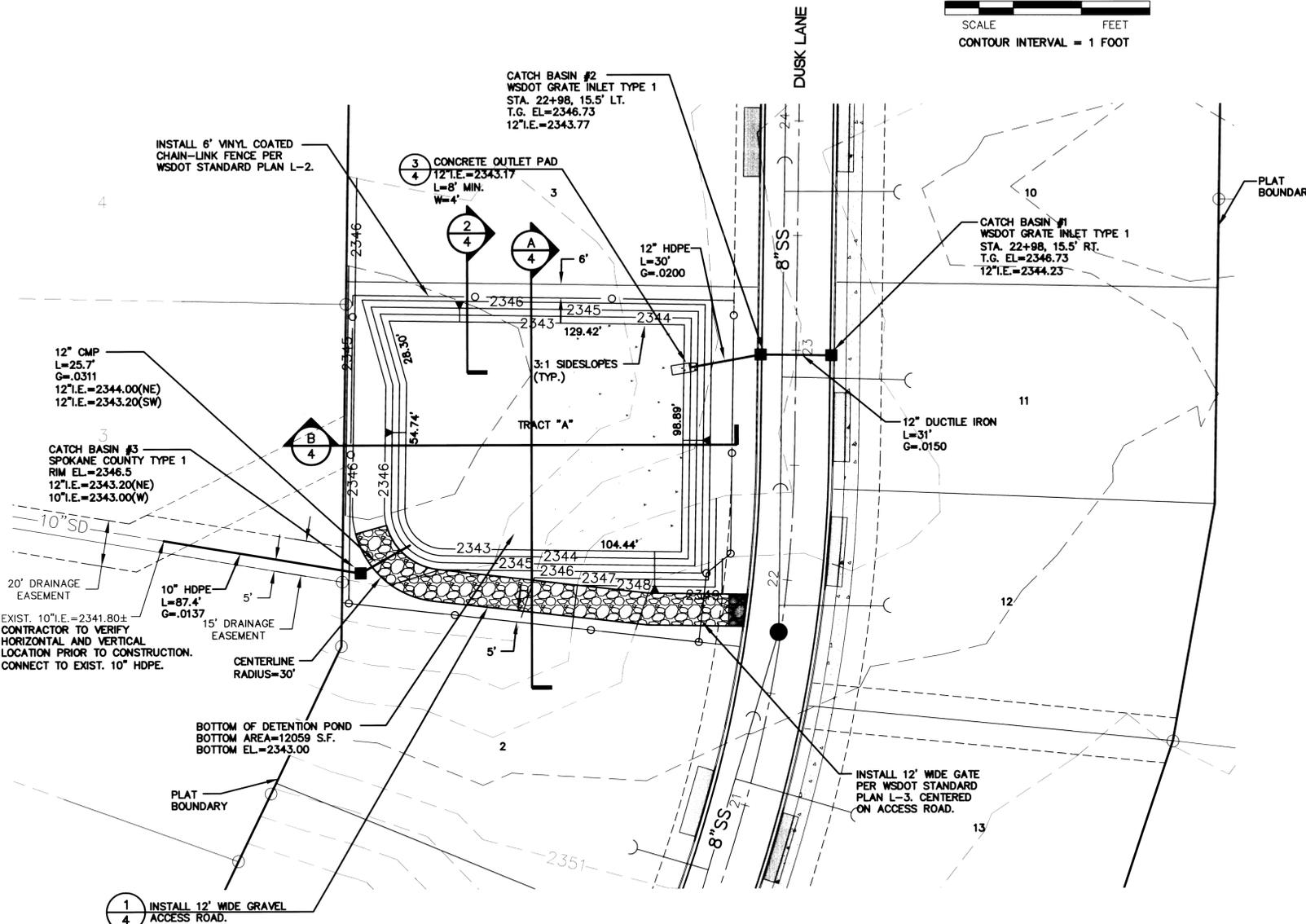
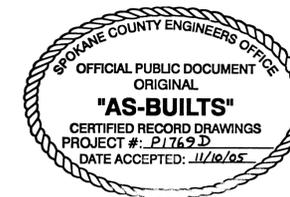
GRASS SEED : PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

- 10 PERCENT ELKA PERENNIAL RYE
- 15 PERCENT REUBENS CANADIAN BLUEGRASS
- 20 PERCENT DURAR HARD FESCUE
- 45 PERCENT COVAR/SHEEP FESCUE

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.



EXIST. 10" I.E. = 2341.80 ±  
CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. CONNECT TO EXIST. 10" HDPE.

BOTTOM OF DETENTION POND  
BOTTOM AREA = 12059 S.F.  
BOTTOM EL. = 2343.00

1  
4  
INSTALL 12' WIDE GRAVEL ACCESS ROAD.

### UTILITY STATEMENT

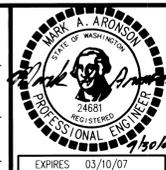
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I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.



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3	3/05	GRG	GRG	MAA	REVISED STORM OUTLET LOCATION
4	9/05	KWE	GRG	MAA	RECORD DRAWING

Drawn	Date
CWD	1/28/04
Designed	
GRG	1/28/04
Checked	
MAA	1/28/04



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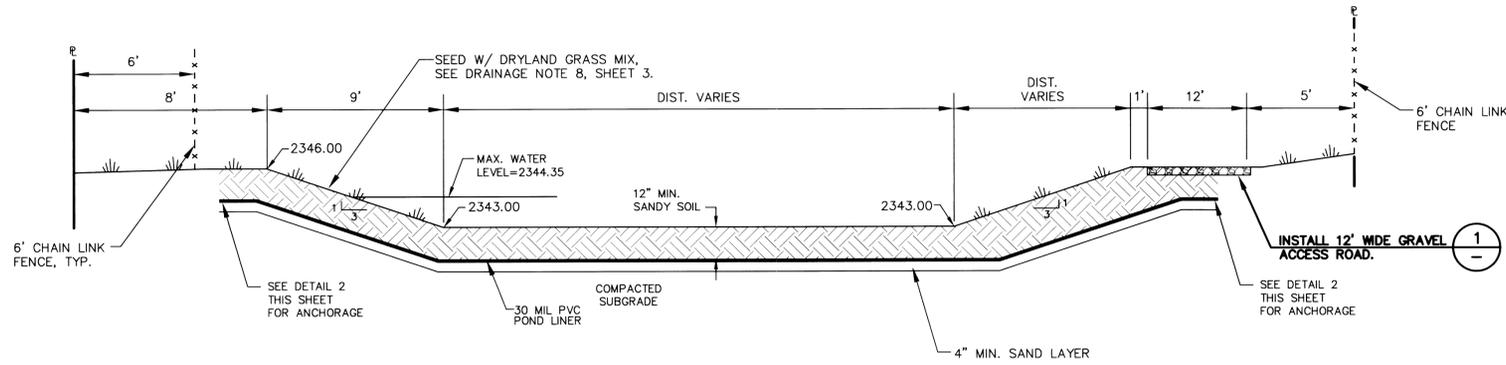
<b>SCALE</b>	<b>MORNINGSIDE HEIGHTS 4TH ADD.</b>	<b>STORM SHEET</b>
HORIZ. 1"=30'	STORM POND DETAIL SHEET	3 5
VERT. 1"=10'		

Developer's Approval ORIGINALY SIGNED BY: RICHARD DAHM, PRESIDENT Date 2-26-04

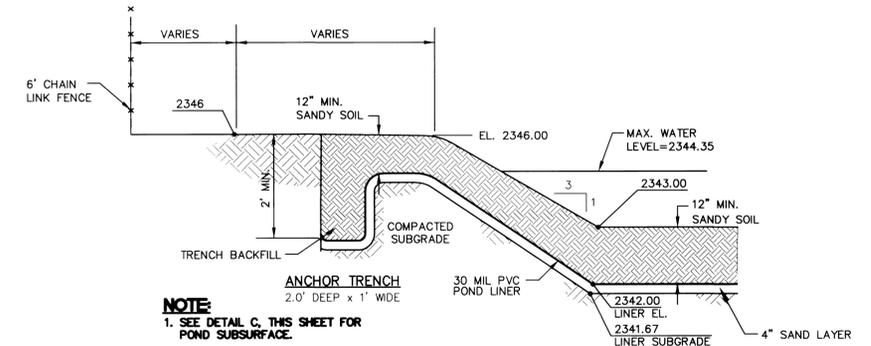
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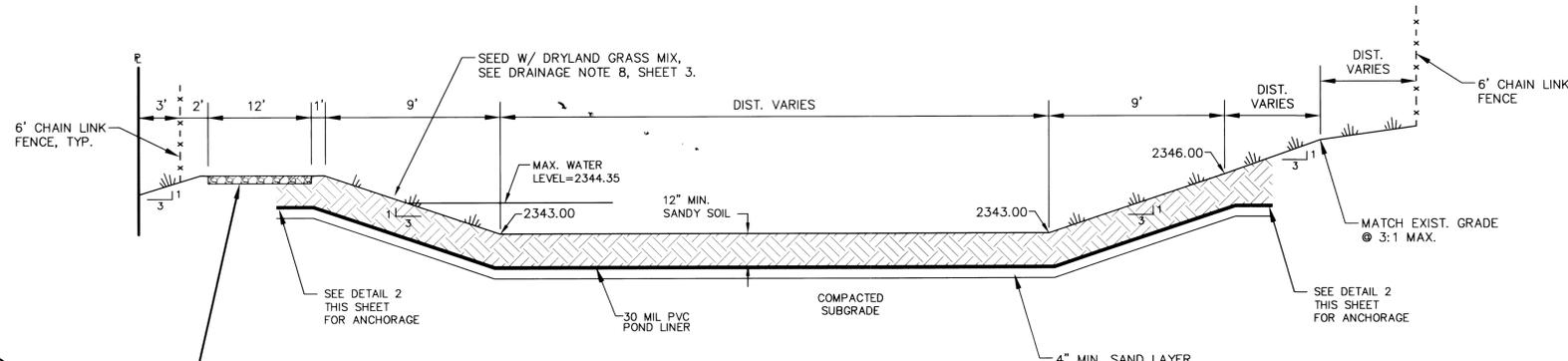
S. 25, T.25N., R.44E., W.M.



**A**  
**3**  
DETENTION POND TYPICAL SECTION (N-S)  
NOT TO SCALE

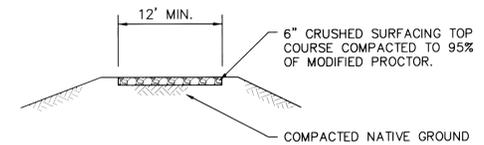


**2**  
**3**  
POND SECTION AT BERM  
NOT TO SCALE

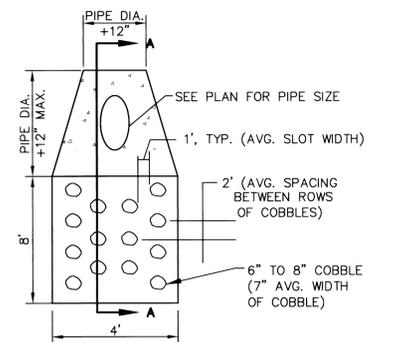
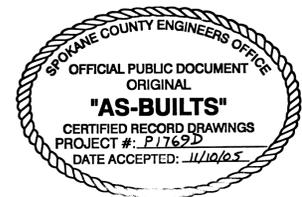


**B**  
**3**  
DETENTION POND TYPICAL SECTION (E-W)  
NOT TO SCALE

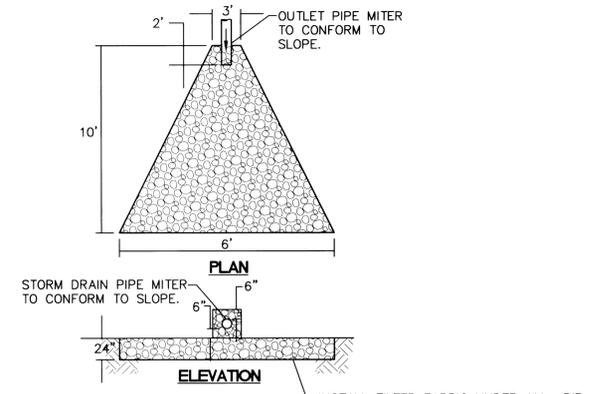
**1**  
**3**  
INSTALL 12' WIDE GRAVEL ACCESS ROAD.



**1**  
**3**  
ACCESS ROAD SECTION  
NOT TO SCALE



**3**  
**3**  
CONCRETE OUTLET PAD  
NOT TO SCALE



**NOTE:**  
1. RIP RAP SHALL BE INSTALLED 2' THICK WITH THE FOLLOWING GRADATION:  
40% TO 90% MAX. STONE SIZE=8" DIA.  
70% TO 90% MED. STONE SIZE=6" DIA.  
10% TO 30% MIN. STONE SIZE=4" DIA.

**4**  
**3**  
RIPRAP OUTLET PAD  
NOT TO SCALE

**UTILITY STATEMENT**

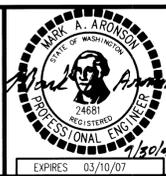
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No.	Date	By	Ckd	Appr.	Revisions
1	2/04	DWC	GRG	MAA	PER COUNTY COMMENTS, DATED 2/12/04
2	2/04	DWC	GRG	MAA	PER COUNTY COMMENTS, DATED 2/23/04
3	9/05	KWE	GRG	MAA	RECORD DRAWING

Drawn	Date
KMA	1/28/04
Designed	
KMA	1/28/04
Checked	
MAA	1/28/04



**Taylor Engineering, Inc.**  
Civil Design and Land Planning  
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**SPOKANE COUNTY PUBLIC WORKS**  
**DIVISION OF UTILITIES**  
W. 1026 Broadway Ave.  
Spokane, Wa. 99260  
477-3604

VERTICAL DATUM: REBAR W/PC, L.S.#1809, @ CENTERLINE OF CHAPMAN RD. 120'± EAST OF THE INTERSECTION OF DAYBREAK LANE AND CHAPMAN RD. EL. = 2341.84 (NAVD 88)  
CADD FILE NAME: 03119SD25

**SCALE**  
HORIZ. 1"=30'  
VERT. 1"=10'

MORNINGSIDE HEIGHTS 4TH ADD.	STORM
STORM POND LINER DETAIL SHEET	SHEET
	4
	5