

# DRAINAGE PLANS FOR: CHAPMAN MEADOWS

SPOKANE COUNTY, WASHINGTON

SOUTHEAST 1/4 OF S.25, T.25N, R.44E, W.M.

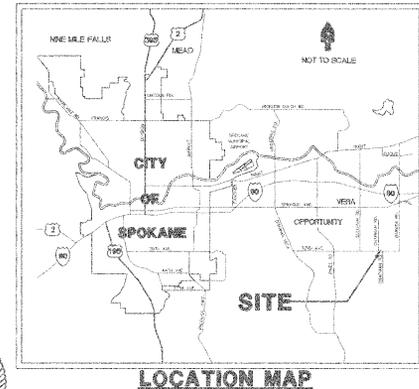
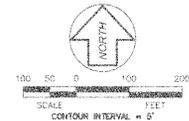
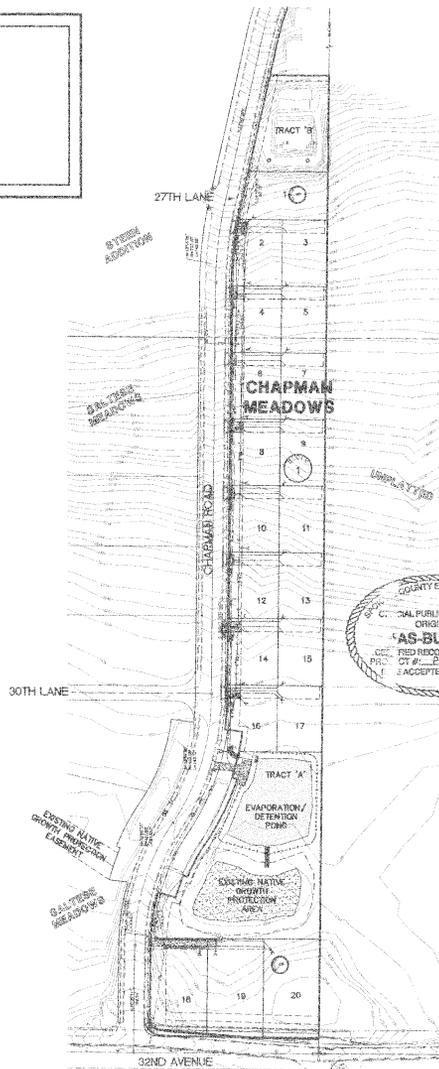
### GENERAL NOTES:

- ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2007", AS AMENDED, AND PER THE "2002 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) 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 REFLECTING 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 ENGINEERED, 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 6" LIFTS TO 92% OF MAXIMUM ASTM D 1557 DRY DENSITY. CEMENT CONCRETE APPROACH 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.

### LEGEND

---	EXISTING CONTOUR	---	PROPOSED CONTOUR
---	EASEMENT LINE	---	PLAT BOUNDARY/EXIST. R.O.W.
---	EXISTING BURIED TELEPHONE	---	LOT LINE
---	EXISTING BURIED GAS PIPELINE	---	LIMIT OF PROPOSED EASEMENT
---	EXISTING OVERHEAD ELECTRICAL	---	NEW WATER LINE
---	EXISTING FENCE	---	NEW SANITARY SEWER LINE
---	EXISTING WATER LINE	---	NEW STORM DRAIN LINE
---	EXISTING SEWER LINE	---	NEW DITCH CENTERLINE
---	EXISTING STORM DRAIN LINE	---	NEW 6" CHAIN LINK FENCE
⊕	EXISTING WATER VALVE	⊕	NEW WATER VALVE
⊕	EXISTING WATER LINE FITTING (TYP.)	⊕	NEW CONCRETE THRUST BLOCK
⊕	EXISTING FIRE HYDRANT	⊕	NEW WATER LINE FITTING (TYP.)
⊕	EXISTING WATER METER AND SERVICE	⊕	NEW SANITARY SEWER MANHOLE
⊕	EXISTING SIGN	⊕	NEW GRAVEL SURFACE ACCESS
⊕	EXISTING SANITARY SEWER MANHOLE		

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



### INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	BACK OF WALK STORM DITCH - CHAPMAN ROAD
3	EVAPORATION/DETENTION POND - PLAN AND SECTIONS
4	TEMPORARY EROSION/SEDIMENT CONTROL AND DRAINAGE DETAILS
5	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

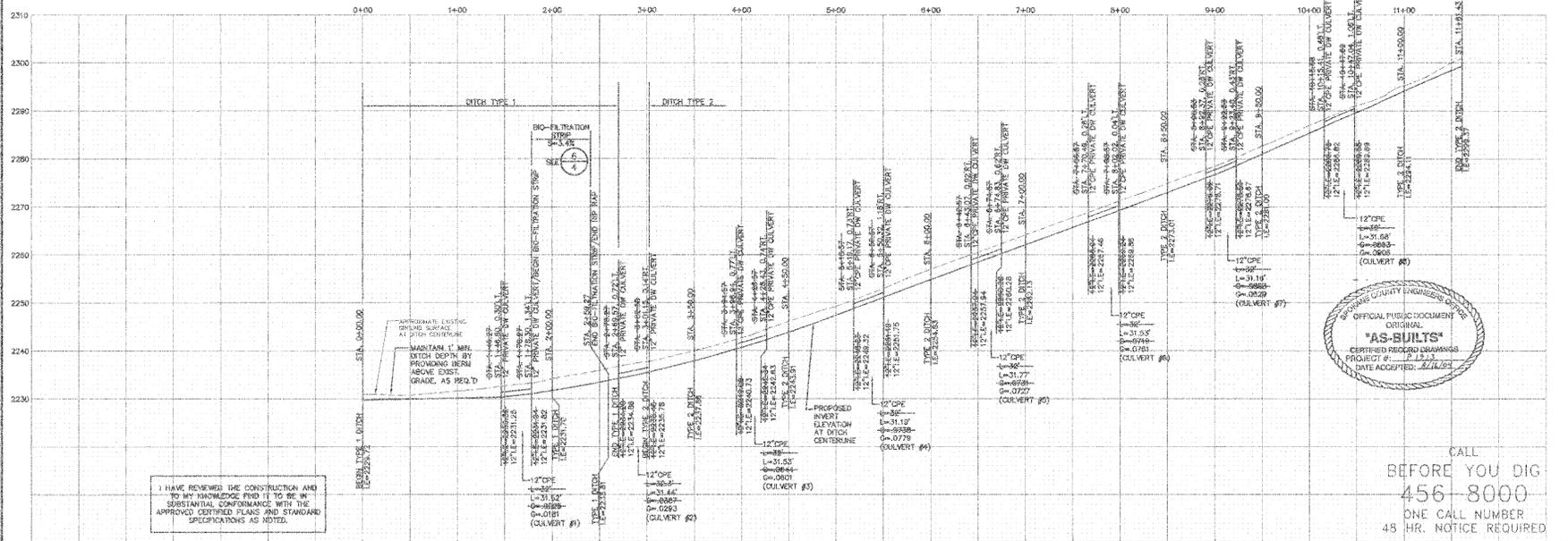
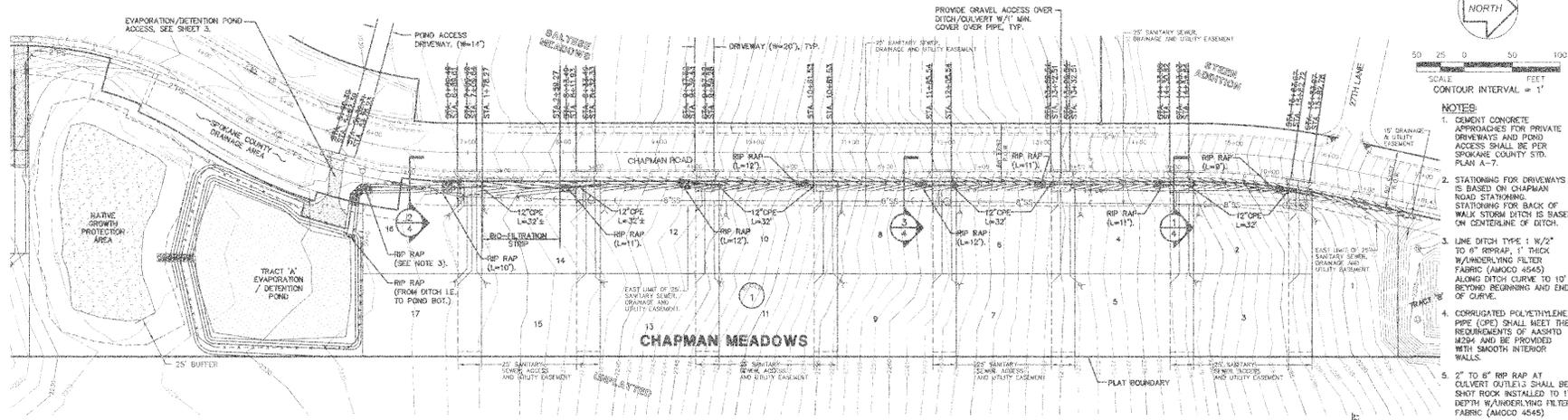
No.	Date	By	Clk	Appr.	Revisions	Drawn	Date		The design improvements shown in this set of plans and calculations conform to the applicable editions of the Spokane County Standards for Road and Sewer Construction and the Spokane County Guidelines for Stormwater Management. All design variations have been approved by the Spokane County Engineer. I approve these plans for construction.	<b>Taylor Engineering, Inc.</b> Civil Design and Land Planning 1000 Mainland Ave. Spokane, Washington 99201 (509) 328-3371 FAX (509) 328-8234	<b>SPOKANE COUNTY PUBLIC WORKS DIVISION OF ENGINEERING AND ROADS</b> 4102B Broadway Ave. Spokane, WA 99201-0170 477-1650	VERTICAL DATUM: MEANS WATER LEVEL IS CONTINUOUS OR CHANGE BY 100% IN CASE OF THE INTERSECTION OF DRAINAGE LINE AND ELEVATION (E.L. = CENTER GRADE AND)	CADD FILE NAME: 03/29/15 COVER-ASS.dwg	SCALE HORIZ. N/A VERT. N/A	CHAPMAN MEADOWS COVER SHEET	COVER SHEET 1 5		
2	08/04	ALB	NEW	MAX	RECORD DRAWING	Designed	08/19/23					Checked	08/29/23	Developer's Approval	Date	SCALE 100 50 0 100 200 SCALE FEET		
1	09/03	ALB	REV	MAX	ADDITIONAL SPOKANE CO 08/08/23 COMMENTS													



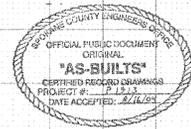
SCALE  
50 25 0 50 100  
CONTOUR INTERVAL = 1'

NOTES

1. CEMENT CONCRETE APPROACHES FOR PRIVATE DRIVEWAYS AND POND ACCESS SHALL BE PER SPOKANE COUNTY STD. PLAN A-7.
2. STATIONING FOR DRIVEWAYS IS BASED ON CHAPMAN ROAD STATIONING. STATIONING FOR BACK OF WALK STORM DITCH IS BASED ON CENTERLINE OF DITCH.
3. LINE DITCH TYPE 1 W/2" TO 6" RIP RAP, 1" THICK W/UNDERLYING FILTER FABRIC (AMOCO 4545) ALONG DITCH CURVE TO 10' BEYOND BEGINNING AND END OF CURVE.
4. CORRUGATED POLYETHYLENE PIPE (CPE) SHALL MEET THE REQUIREMENTS OF ASSHTO M294 AND BE PROVIDED WITH SMOOTH INTERIOR WALLS.
5. 2" TO 6" RIP RAP AT CULVERT OUTLETS SHALL BE SHOT ROCK INSTALLED TO 1' DEPTH W/UNDERLYING FILTER FABRIC (AMOCO 4545)



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



CALL  
BEFORE YOU DIG  
456-8000  
ONE CALL NUMBER  
48 HR. NOTICE REQUIRED

No.	Date	By	Appr.	Revisions
3	08/04	ALB/MEH	MAA	RECORD DRAWING
2	08/03	MEM/MEH	MAA	ADDRESS SPOKANE COUNTY
1	07/02	MEH/MEH	MAA	ADDRESS SPOKANE COUNTY

Drawn: \_\_\_\_\_ Date: 08/19/2014  
 Design: \_\_\_\_\_  
 Checked: \_\_\_\_\_ Date: 08/19/2014



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 decisions have been approved by the Spokane County Engineer. I approve these plans for construction.

Taylor Engineering, Inc.  
 Civil Design and Land Planning  
 10828 Broadway Ave.  
 Spokane, WA 99200-0170  
 (509) 328-5373 FAX (509) 398-6554

SPOKANE COUNTY PUBLIC WORKS  
 DIVISION OF ENGINEERING AND ROADS  
 W 1028 Broadway Ave.  
 Spokane, WA 99200-0170  
 477-3623

VERTICAL DATUM: 1988 AFSL 15.8500, a continue of 1988 AFSL 15.8500 as of the INTERSECTION OF DIVISION OF LAKE AND CHAPMAN RD. E. = 2004.8500 (MAD) FILE NAME: 02050 ST PWP-15A.dwg  
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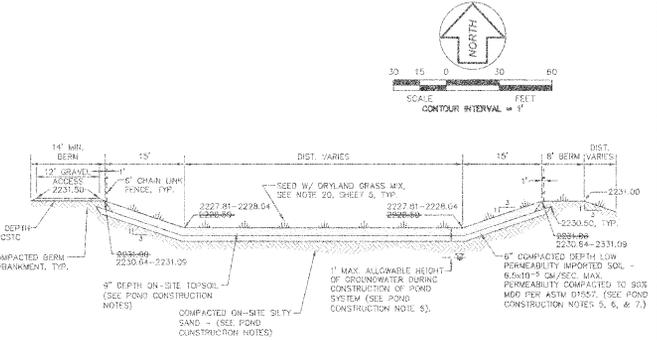
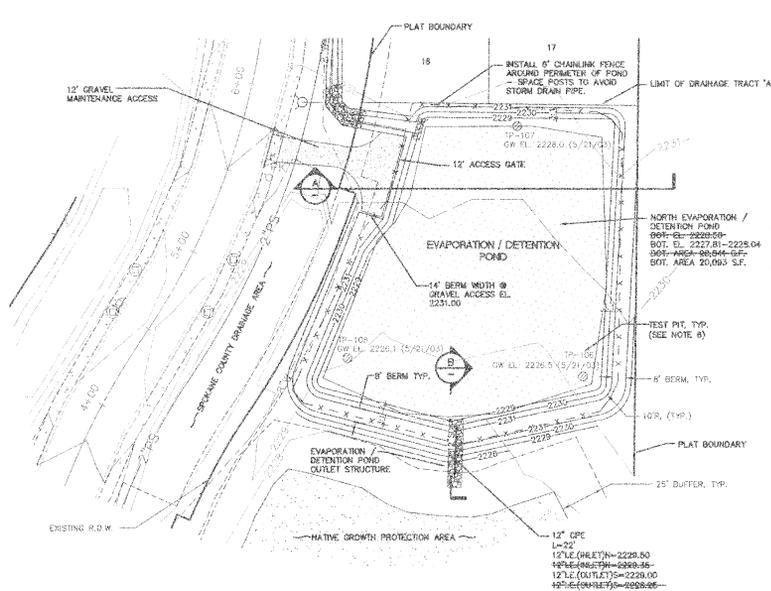
SCALE  
HORIZ 1"=50'  
VERT 1"=10'

CHAPMAN MEADOWS  
 BACK OF WALK STORM DITCH  
 STA. 0+00 TO 11+61.43  
 (CHAPMAN ROAD)  
 STA. 5+97.20 TO STA. 11+05.49

STORM SHEET 2/5

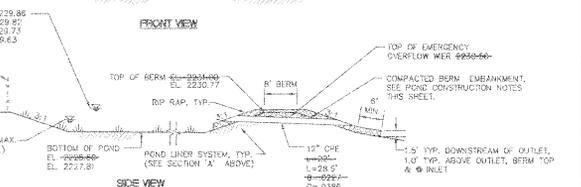
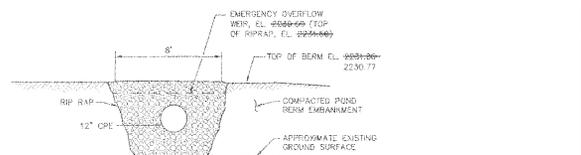
**EVAPORATION/DETENTION POND CONSTRUCTION NOTES**

- TOPSOIL WAS STRIPPED FROM THE EVAPORATION/DETENTION POND AREA AND STOCKPILED FOR USE IN THE 8" TOPSOIL LAYER IN THE POND. THE EXISTING TOPSOIL DEPTH IS APPROXIMATELY 1.0 TO 1.5 FEET DEEP IN THE POND AREA.
- POND SUBGRADE CONSISTED OF THE NATIVE ON-SITE SAND. THE NATIVE STRIPPED SUBGRADE WAS NOT PROOF-COMPACTED DUE TO SHALLOW GROUNDWATER BELOW THE POND BOTTOM. ON-SITE SAND FILL TO CONSTRUCT THE POND BOTTOM WAS PLACED IN LIFTS NOT EXCEEDING 6-INCHES, AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM AND COMPACTED TO 93% OF MODIFIED PROCTOR MAXIMUM UNIT WEIGHT.
- POND BERMS WERE CONSTRUCTED USING ON-SITE NATIVE SOIL EXCLUDING THE TOPSOIL. IMPORTED FILL SHALL CONSIST OF SILTY SAND AND GRAVEL WITH NO PARTICLES LARGER THAN 9-INCHES IN DIAMETER, AND NOT MORE THAN 35% BUT NOT LESS THAN 15% PASSING THE NUMBER 200 SIEVE.
- POND BERM MATERIAL WAS PLACED WITHIN 2% OF OPTIMUM MOISTURE CONTENT, IN LIFTS NOT EXCEEDING 6-INCHES AND COMPACTED TO 93 % OF THE MAXIMUM DRY UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
- THE IMPORTED LOW PERMEABILITY SOIL MATERIAL WAS COMPACTED TO A 6-INCH DEPTH (MINIMUM) AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DRY UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR METHOD. THE IMPORTED SILTY/SANDY MATERIAL SHALL HAVE AN APPROXIMATE PERMEABILITY IN THE ORDER OF  $1 \times 10^{-11}$  CM/SEC. TO  $1 \times 10^{-10}$  CM/SEC.
- TEST PITS SHOWN ON THIS SHEET WERE LOGGED BY CUMMINGS GEOTECHNOLOGY, INC. AND ARE INCLUDED IN THEIR REPORT DATED JUNE 19, 2003. THE CONTRACTOR SHALL MONITOR THE DEPTH OF GROUNDWATER WITHIN THE LIMITS OF POND BOTTOM AND BERMS AND COMPLETE THE POND WORK WHEN THE GROUNDWATER IS A MINIMUM OF 1 FOOT BELOW THE LOWEST LEVEL OF PLANNED EXCAVATION (APPROX. EL. 2227.25). LIKELY IN LATE SUMMER AND/OR EARLY FALL. THE CONTRACTOR SHALL MONITOR THE GROUNDWATER LEVEL PERIODICALLY BY EXCAVATING SHALLOW SANDHOLE TEST PITS OR BY COMPLETING HAND ALSED BOREHOLES IN AREAS OF POND EXCAVATION. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER THE DATE AND ELEVATION OF GROUNDWATER, WITHIN THE LIMITS OF POND CONSTRUCTION, BIRMINGHAM, AND AFTER POND CONSTRUCTION. THE MEASUREMENTS SHALL INDICATE THAT THE POND SYSTEM WAS CONSTRUCTED WHEN THE GROUNDWATER WAS NO CLOSER THAN 1-FOOT FROM THE LOWEST LEVEL OF POND EXCAVATION. THE ENGINEER WILL PROVIDE A TEMPORARY BENCHMARK WITHIN THE VICINITY OF THE POND, FOR GROUNDWATER LEVEL MONITORING.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IN ORDER TO OBTAIN A MINIMUM OF ONE SAMPLE OF IN-PLACE LOW PERMEABILITY SOIL MATERIAL. THE SAMPLE WILL BE LABORATORY TESTED TO VERIFY THAT THE CONSTRUCTED MATERIAL IS LESS THAN OR EQUAL TO THE REQUIRED PERMEABILITY RATE OF  $1 \times 10^{-8}$  CM/SEC.
- CORRUGATED POLYETHYLENE PIPE (CPE) SHALL MEET THE REQUIREMENTS OF AASHTO M284 AND BE PROVIDED WITH SMOOTH INTERIOR WALLS.



**EVAPORATION / DETENTION POND TYPICAL SECTION**

NOT TO SCALE



- NOTES:**
1. RIP-RAP PAD SHALL BE INSTALLED AS FOLLOWS:
    - A) IN A 6' SWATH FROM POND BOTTOM.
    - UP THE SLOPE AND OVER TOP OF THE BERM.
    - B) DOWN THE OUTSIDE OF THE BERM (6' WIDE SWATH) EXTENDING 6' BEYOND THE CATCH POINT.
  2. RIP-RAP SHALL BE INSTALLED 1.5" THICK WITH THE FOLLOWING GRADATION:
    - 40% TO 60% MAX. STONE SIZE=6" DIA.
    - 70% TO 90% MAX. STONE SIZE=4" DIA.
    - 10% TO 30% MIN. STONE SIZE=2" DIA.
  3. FILTER FABRIC SHALL BE INSTALLED UNDER ALL RIP-RAP AND SHALL BE AMCO 4545 OR APPROVED EQUAL.

VERTICAL DATUM: BEAM 4/10/03, 6" BERM & CONSTRUCTION OF GROUNDWATER BELOW THE POND BOTTOM. INTERSECTION OF CENTERLINE AND DRAINAGE TRACT (EL. 2228.00) (SEE SHEET 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)

SCALE: HORIZ. AS NOTED, VERT. N/A

**EVAPORATION/DETENTION POND OUTLET STRUCTURE SECTION**

NOT TO SCALE



CALL  
BEFORE YOU DIG  
456-8000  
ONE CALL NUMBER  
48 HR. NOTICE REQUIRED

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

No.	Date	By	Checked	Appr.	Revisions
3	06/04	ALB	MFM	MAA	RECORD DRAWING
2	09/03	ALB	MFM	MAA	ADDRESS SPOKANE COUNTY ADDRESS SPOKANE COUNTY COMMENTS
1	07/03	MFM	MFM	MAA	ADDRESS SPOKANE COUNTY COMMENTS 06/23/03



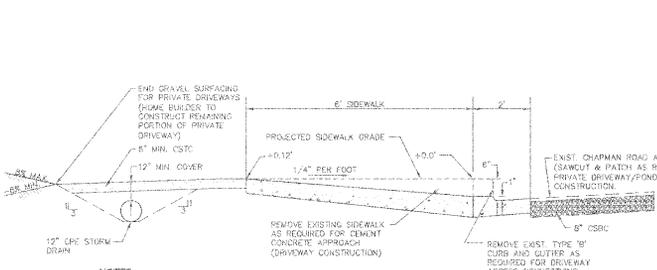
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W. 1026 Broadway Ave.  
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(509) 328-3374 FAX (509) 588-8254

SPOKANE COUNTY PUBLIC WORKS  
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W. 1026 Broadway Ave.  
Spokane, WA 99202-0170  
477-3500

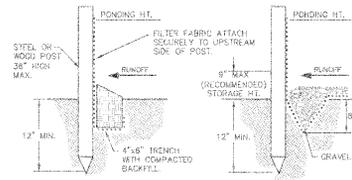
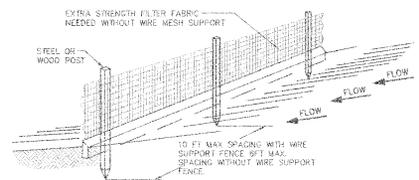
VERTICAL DATUM:	BEAM 4/10/03, 6" BERM & CONSTRUCTION OF GROUNDWATER BELOW THE POND BOTTOM. INTERSECTION OF CENTERLINE AND DRAINAGE TRACT (EL. 2228.00) (SEE SHEET 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)
CADD FILE NAME:	210209 ST DETAILS-ASB.dwg
SCALE:	HORIZ. AS NOTED, VERT. N/A

CHAPMAN MEADOWS	DETAILED
EVAPORATION / DETENTION POND PLAN AND SECTIONS	SHEET
	3
	5



- NOTES**
1. SLOPE FROM DRIVEWAY EDGE TO 8" OR 12" SD LE. AT 3:4 TO 1V.
  2. SEE SPOKANE COUNTY STANDARD PLAN NO. A-7 FOR ADDITIONAL INFORMATION REGARDING CEMENT CONCRETE APPROACHES.

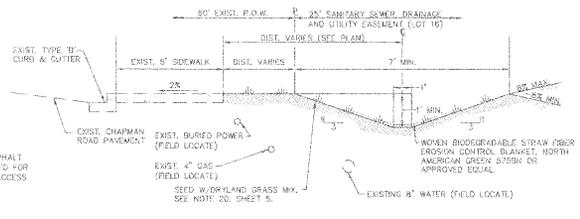
**1 DRIVEWAY W/STORM DITCH CULVERT**  
 NOT TO SCALE



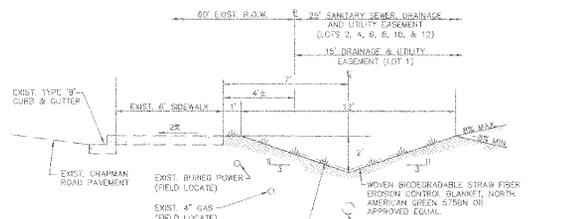
- NOTES**
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFFSITE AND CAN BE PERMANENTLY STABILIZED.
  3. SALT FENCE SHALL BE PLACED IN SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.

**5 SALT FENCE**  
 NOT TO SCALE

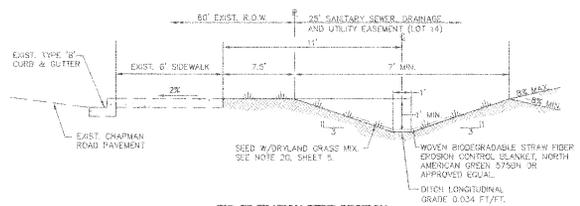
I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED IDENTIFIED PLANS AND STANDARD SPECIFICATIONS AS NOTED.



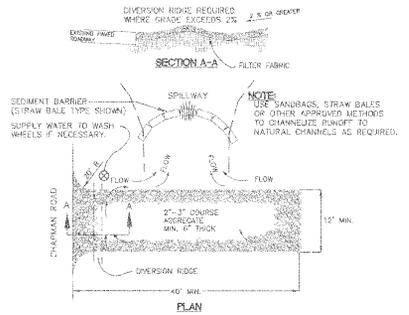
**2 TYPE 1 DITCH SECTION**  
 STA. 0+00 TO STA. 1+78.27 AND STA. 2+58.27 TO STA. 2+70.27  
 NOT TO SCALE



**3 TYPE 2 DITCH SECTION**  
 (STA. 3+02.58 TO STA. 1+161.43)  
 NOT TO SCALE



**6 BIO-FILTRATION 6T8F SECTION**  
 (STA. 1+78.27 TO STA. 2+58.27)  
 NOT TO SCALE



- NOTES**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANING OF ANY MEASURES USED TO TREAT SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO EXIST. ASPHALT ROADWAYS.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA THAT IS STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

**4 ROCK CONSTRUCTION ENTRANCE**  
 NOT TO SCALE



Drawn	JLB	Date	05/09/2021		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 revisions have been approved by the Spokane County Engineer. I approve these plans for construction.	<b>Taylor Engineering, Inc.</b> Civil Design and Land Planning 816 The Millers Ave. Spokane, Washington 99201 (509) 338-9371 FAX (509) 338-8226	<b>SPOKANE COUNTY PUBLIC WORKS</b> DIVISION OF ENGINEERING AND ROADS W. 1026 Broadway Ave. Spokane, WA 99201-0170 477-3634	VERTICAL DATUM: SPokane, N.T.C. 3.000' @ CENTERLINE OF CHAPMAN RD. 100' EAST OF THE INTERSECTION OF BROADWAY AND CHAPMAN RD. LE. 100' 84' (UNADJUSTED)	SCALE: HORIZ. AS NOTED VERT. N/A	CHAPMAN MEADOWS TEMPORARY EROSION/SEDIMENT CONTROL AND DRAINAGE DETAILS	DETAIL SHEET 4 5
Designed	JLB	Date	05/09/2021								
Checked	WAP	Date	05/09/2021								
No. Date By Ckd Appr. Revisions	2 06/04/20 JLB MFM BAA RECORD DRAWING 1 09/03/20 JLB MFM BAA RECORDS SPOKANE COUNTY 06/09/23 COMMENTS	Developer's Approval _____ Date _____	CADD FILE NAME: 070219 01 DETAILS-ASB-042 30 15 0 30 40 SCALE: FEET	1-1913 Eng As-Built							

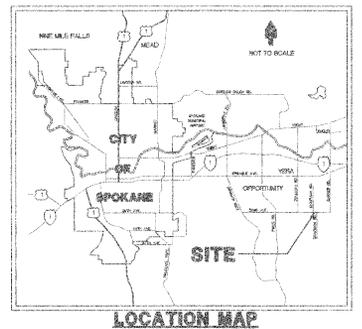
**EROSION CONTROL NOTES:**

1. AN EROSION/SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE AND REMOVAL OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY. WHOEVER IS ESTABLISHED THROUGHOUT THE SITE AND OCCUPIED BY SPOKANE COUNTY, WHOEVER IS LATER.
2. 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.
3. THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES ONLY AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING OFF THE SITE OR INTO ANY EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRENCHALS, CULVERTS, OR GRAVEL GALLERIES.
4. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. ACCESS FOR CONSTRUCTION VEHICLES SHOULD BE LIMITED TO ONE ROUTE WHENEVER POSSIBLE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED. (SEE DETAIL 1, THIS SHEET).
5. CONTRACTOR TO PREVENT AGAINST SEDIMENTATION BY INSTALLING GEOTEXTILE FABRIC BETWEEN THE INK AND GRATE OF DRENCHALS, 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.
6. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. CONTRACTOR IS RESPONSIBLE FOR SUPPRESSION OF DUST IN CONFORMANCE WITH SPOKANE REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN AS A MINIMUM.
7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. THE INTENT IS TO KEEP SEDIMENT ON THE PROJECT SITE, AND NOT ALLOW IT TO REACH ADJACENT PROPERTIES, WATER BODIES, AND PUBLIC OR PRIVATE ROADS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PERMANENT AND DOWNSIDE STREAM/STORMWATER MANAGEMENT FACILITIES DURING CONSTRUCTION AND FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM TRAFFIC FROM THE SITE.
9. THE CONTRACTOR SHALL DESIGNATE AND POST A LOCATION FOR A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS SHALL NOT BE LOCATED IN NOR DRAIN INTO A SMALL DRAINAGE AREA, STORMWATER FACILITY OR WATER BODY, EITHER EXISTING OR PROPOSED. WASHED MASH CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
10. CONTRACTOR SHALL IDENTIFY A LOCATION FOR STORAGE/STORAGE AREA (WITHIN THE PROPOSED ESC PLAN BOUNDARIES) FOR ANY SOIL, EXISTING AND LANDSCAPE MATERIAL THAT IS TO BE USED ON-SITE.
11. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL, BMP'S DURING ALL LAND-DEVELOPING ACTIVITIES. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL STRUCTURES AFTER EVERY RAINFALL EVENT, REMOVE DEBRIS AND SEDIMENT AND MAKE NEEDED REPAIRS.
12. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
13. CONTRACTOR SHALL FIELD IDENTIFY AND DELINEATE ALL CLEARING LIMITS, SENSITIVE/CRITICAL AREAS, BUFFERS, TREES TO BE PRESERVED AND DRAINAGE COURSES.
14. CONSTRUCTION OF ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF OTHER LAND DISTURBING ACTIVITIES.

15. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RECEIVING PAVEMENT, GRAVEL OR LANDSCAPE TREATMENT SHALL BE STABILIZED BY APPLICATION OF A HYDROSEED MIXTURE OF OY-LAND GRASS SEED.
16. EROSION CONTROL STRUCTURES BELOW 500000 OR RIP RAPPED AREAS MAY BE REMOVED ONCE SOIL AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
17. ALL TEMPORARY SEDIMENT CONTROL BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED.
18. CONTRACTOR SHALL CONTROL ALL ON-SITE POLLUTANTS OTHER THAN SEDIMENT IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER OR GROUNDWATER.
19. THIS PLAN IS ONLY TO BE USED FOR INSTALLATION OF EROSION CONTROL FACILITIES. DO NOT USE THIS PLAN FOR GRADING OR STORM SEWER CONSTRUCTION.
20. ALL PONDS AND DISTURBED AREAS SHALL BE SEEDED W/RYTLO AND GRASS SEED MIX AS FOLLOWS:  
 OY-LAND 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: 10-10-10 TRIPLE RELEASE COMPOSITION, 300LBS PER ACRE  
 ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE WOOD STANDARD SPECIFICATIONS, SEC. 8-C-1.

21. CONTRACTOR SHALL PROVIDE MONITORING AND MAINTENANCE OF THE BIO-FILTRATION STRIP PRE-SETTLING AREA, I.E. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF APPROXIMATELY 0.75'. REGULAR INSPECTIONS OF SETTLING AREA SHALL BE COMPLETED BY THE CONTRACTOR AND ADDITIONAL RESTRICTIONS SHALL BE MADE BY THE CONTRACTOR AFTER EACH RAINFALL PRODUCING STORM EVENT.

**EROSION AND SEDIMENT CONTROL PLAN FOR CHAPMAN MEADOWS (A RESIDENTIAL PLAT) S.E. 1/4 OF SECTION 25, T.25 N., R.44 E., W.M. SPOKANE COUNTY, WASHINGTON**



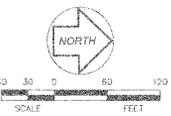
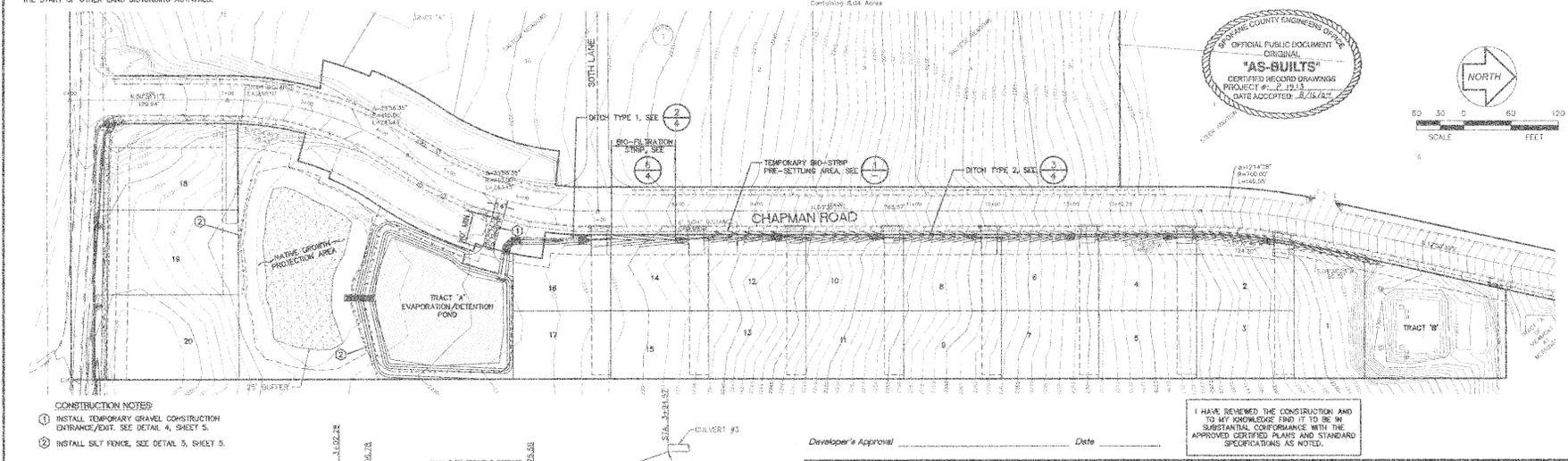
<b>PROPERTY OWNER:</b>	DAIM CHILDEN TRUST
<b>PERMIT APPLICANT:</b>	FLASTONE CONSTRUCTION GROUP, INC.
<b>CONTACT PERSON AT PROJECT SITE:</b>	BRETT I. SULLIVAN
<b>PROJECT ADDRESS:</b>	NORTHEAST OF INTERSECTION OF 32ND AVE. & CHAPMAN ROAD
<b>PROJECT DESCRIPTION:</b>	SINGLE FAMILY RESIDENTIAL DEVELOPMENT INCLUDING POOL, DRENCHALS, DRAINAGE, WETLAND STORMWATER POOL, WATER & SEWER SYSTEM IMPROVEMENTS, ESC MEASURES, HOUSE, SUI FRONTS & GRAVEL CONSTRUCTION ENTRANCES.
<b>DESCRIPTION OF ESC MEASURES:</b>	SITE IS PRIMARILY COVERED WITH GRASSES AND CATTAILS WITH A FEW TOSSEUMS AND PINE TREES ALONG THE SOUTHWEST CORNER.
<b>DESCRIPTION OF EXISTING SITE VEGETATION:</b>	RYE - BIRD AND BIRDSEED (DAIMY SHAD) MIX - HARVESTED 9/1/2004
<b>LIST OF ON-SITE SOILS:</b>	SEE THIS SHEET
<b>LEGAL DESCRIPTION:</b>	SEE THIS SHEET

**DECECATION**

NOTICE ALL WITH THESE PRESENTS, THAT THE DAIM CHILDEN TRUST, above named to be printed into Lots, Blocks, and Streets, the land shown hereon, to be known as CHAPMAN MEADOWS, being a portion of lots in the Southeast Quarter of Section 25, T.25 N., R.44 E., W.M., in Spokane County, State of Washington, described as follows:

A portion of the S.E. 1/4 of Section 25, T.25 N., R.44 E., W.M., Spokane County, Washington described as follows:

Commence at the Southwest corner of said S.E. 1/4 of Section 25, thence N.60.057171°, along the East line of the 1/2nd Avenue and the POINT OF BEGINNING, thence continue N.60.057171°, along said East line, 173.00 feet to the South line of the Point of Beginning at Monroeville (P.O.) on the east thereof recorded in book 24 of Plats, Pages 48 and 49, Spokane County, Washington, thence S.89.972728°, along the South line of said plat, 131.42 feet to the East right of way line of Chapman Road as recorded under Auditor's file No. 63122/0489 and 4298/0488, thence S.12.297330°, along said East line, 20.59 feet to the beginning of a curve to the left; the radius of which bears 5.770707171°, a distance of 670.00 feet; thence along said curve to the left and said East line through a central angle of 127.6728°, an arc distance of 142.14 feet; thence S.60.261171°, along said East line, 77.00 feet to the beginning of a curve to the right the radius of which bears 0.69237496°, a distance of 440.00 feet; thence along said curve to the right and said East line through a central angle of 67.07491°, an arc distance of 64.85 feet; thence S.42.814917°, along said East line, 33.00 feet to the beginning of a curve to the right the radius of which bears 0.8747434° or a distance of 470.00 feet; thence along said curve to the right and said East line through a central angle of 107.2910°, an arc distance of 166.52 feet; thence along said East line 10.00 feet to the beginning of a curve to the right the radius of which bears 0.71427427°, a distance of 337.00 feet; thence along said curve to the right and said East line through a central angle of 115.9532°, an arc distance of 68.28 feet; thence S.6.701474° along said East line 4.00 feet to the beginning of a curve to the left the radius of which bears 0.67777474°, a distance of 340.00 feet; thence along said curve to the left and said East line through a central angle of 07.1617°, an arc distance of 43.89 feet; thence S.74.781974° along said East line 35.00 feet to the beginning of a curve to the left the radius of which bears 5.74587171°, a distance of 380.00 feet; thence along said curve to the left and said East line through a central angle of 110.228°, an arc distance of 130.29 feet; thence S.20.261171°, 19.17 feet to the beginning of a curve to the left the radius of which bears 2.89221474°, a distance of 40.00 feet; thence along said curve to the left through a central angle of 07.1171°, an arc distance of 62.26 feet to the north right of way line of 32nd Avenue, thence S.48.9526171°, 273.87 feet to the Point of Beginning.



**CONSTRUCTION NOTES:**  
 1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT, SEE DETAIL 4, SHEET 5.  
 2. INSTALL SUI FENCE, SEE DETAIL 5, SHEET 5.

CALL BEFORE YOU DIG  
 456-8000  
 ONE CALL NUMBER  
 48 HR. NOTICE REQUIRED

**PRE-SETTLING AREA NOTES:**

1. THE BOTTOM WIDTH OF THE SETTLING AREA SHALL BE 1' MIN.
2. THE BIO-STOP PRE-SETTLING AREA SHALL BE REMOVED AND DITCH TYPE 2 CONSTRUCTED WITHIN 30 DAYS AFTER ESTABLISHMENT OF VEGETATION IN THE BIO-FILTRATION STRIP.



THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN CONFORM TO THE REQUIREMENTS LISTED IN CHAPTER 4.5 OF THE APPLICABLE EDITIONS OF THE GUIDELINES FOR STORMWATER MANAGEMENT AS PUBLISHED BY THE SPOKANE COUNTY DIVISION OF ENGINEERING AND ROADS

NO.	DATE	REVISIONS
1	06/04	RECORD DRAWING
2	08/03	ADDRESS SPOKANE COUNTY 08/08/03 COMMENTS PROJECT # 17-213
3	07/03	ADDRESS SPOKANE COUNTY 06/23/03 COMMENTS

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

**Taylor Engineering, Inc.**  
 Civil Design and Land Planning  
 Spokane, Washington 99201  
 (509) 738-3291 Fax (509) 228-8324

**TEMPORARY EROSION AND SEDIMENT CONTROL PLAN**

CHAPMAN MEADOWS

SHEET 5 OF 5