ROAD AND DRAINAGE PLANS FOR:

SALTESE MEADOWS

SPOKANE COUNTY, WASHINGTON

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

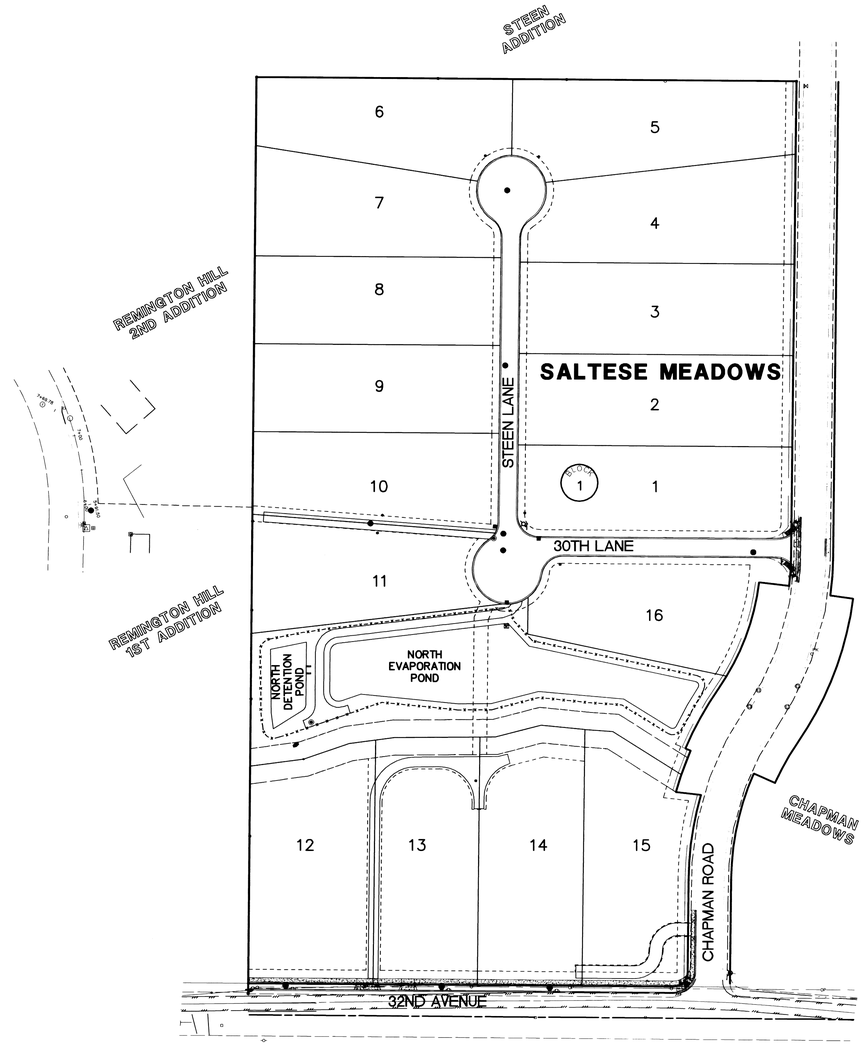
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1813
DATE ACCEPTED: 06-03-03
ACCEPTANCE EXPIRES: 06-03-05
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.19mi
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED 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

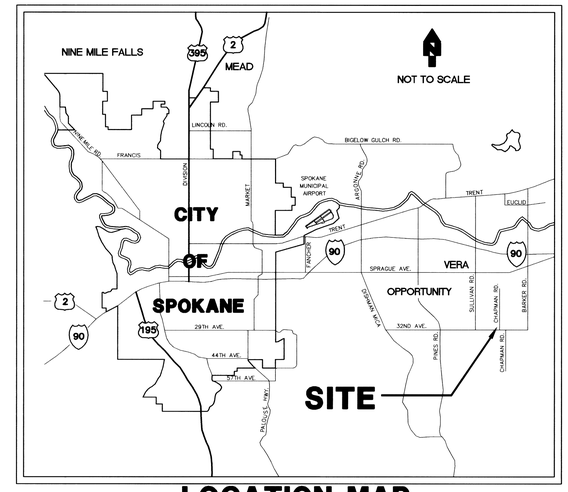
INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	30TH LANE STA. 0+00.00 TO STA. 4+31.00
3	STEEN LANE STA. 0+00.00 TO STA. 5+39.00
4	32ND AVENUE IMPROVEMENTS STA. 42+78.16 TO 49+11.51 NOT INCLUDED (SEE SPOKANE COUNTY ACCEPTED CONSTRUCTION PLANS, DATED 5/19/03, PROJECT #P1813)
5	30TH LANE AND STEEN LANE STORM SEWER PROFILES
6	EVAPORATION AND DETENTION PONDS - STORM DETAILS
7	ROAD AND DRAINAGE DETAILS
8	TEMPORARY EROSTION AND SEDIMENT CONTROL PLAN
9	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS

LEGEND

2353	EXISTING CONTOUR	2250	PROPOSED CONTOUR
	EASEMENT LINE		PLAT BOUNDARY
BT	EXISTING BURIED TELEPHONE		LOT LINE
G	EXISTING BURIED GAS PIPELINE	W	NEW WATER LINE
OE	EXISTING OVERHEAD ELECTRICAL	SS	NEW SANITARY SEWER LINE
x	EXISTING FENCE	SD	NEW STORM DRAIN LINE
W	EXISTING WATER LINE		NEW ASPHALT PAVEMENT
SS	EXISTING SEWER LINE		NEW WATER VALVE
SD	EXISTING STORM DRAIN LINE		NEW CONCRETE THRUST BLOCK
	EXISTING WATER VALVE		NEW WATER LINE FITTING (TYP.)
	EXISTING WATER LINE FITTING (TYP.)		NEW SANITARY SEWER MANHOLE
	EXISTING FIRE HYDRANT		NEW STORM DRAIN MANHOLE
	EXISTING WATER METER AND SERVICE		NEW STORM DRAIN CATCH BASIN
	EXISTING SIGN		NEW GRAVEL SURFACE ACCESS
	EXISTING SANITARY SEWER MANHOLE		NEW TYPE C ASPHALT CURB





LOCATION MAP

GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 2001", 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).
2. 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.
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. CONTRACTOR SHALL ALSO MAINTAIN ON THE SITE A COMPLETE SET OF RED LINE RECORD DRAWINGS INDICATING ALL CHANGES FROM THE APPROVED DRAWINGS.
4. 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.
5. 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.
6. 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.
7. 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%.
8. 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.

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

No.	Date	By	Ckd.	Appr.	Revisions
3	05/03	ALB	MFM	MAA	ADDRESS SPOKANE COUNTY
					04/23/03 COMMENTS
2	04/03	ALB	MFM	MAA	ADDRESS SPOKANE COUNTY
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					02/27/03 COMMENTS

		Date
Drawn	ALB	02/03/03
Designed	MFM	02/03/03
Checked	MAA	02/03/03

MICHAEL F. MORRIS — STATE OF WASHINGTON — 29107 — REGISTERED PROFESSIONAL ENGINEER — 6/5/03 — EXPIRES 2/1/05

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
W. 106 Mission Ave.
Spokane, Washington 99201
(509) 328-3371 FAX (509) 328-8224

Developer's Approval [signature] Date 6/2/03

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260-0170
477-3600

VERTICAL DATUM: REBAR W/YPC, 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: 02120COV.DWG

100 50 0 100 200
SCALE FEET

SCALE
HORIZ. N/A
VERT. N/A

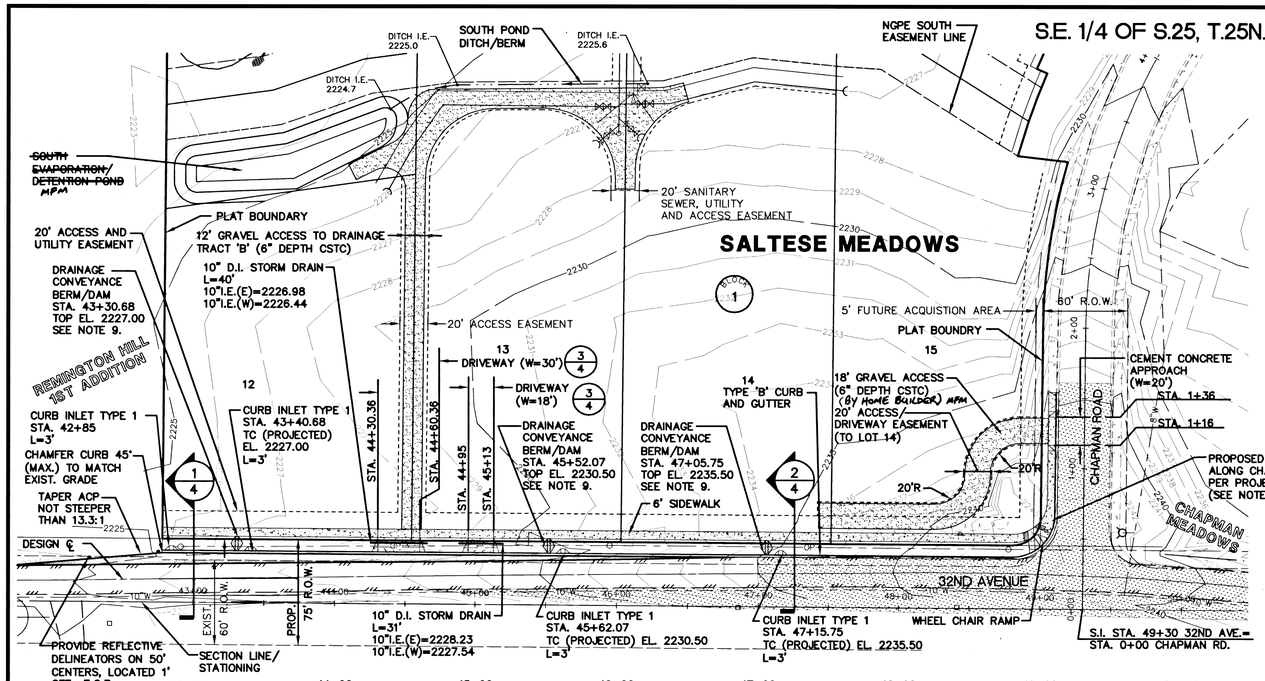
SALTESE MEADOWS

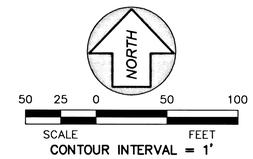
COVER SHEET

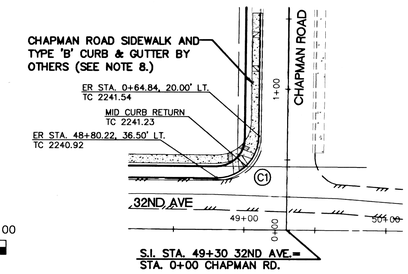
COVER SHEET 1/9

P-1813 Eng Bond & Drawing

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







INTERSECTION DETAIL

NOTES:

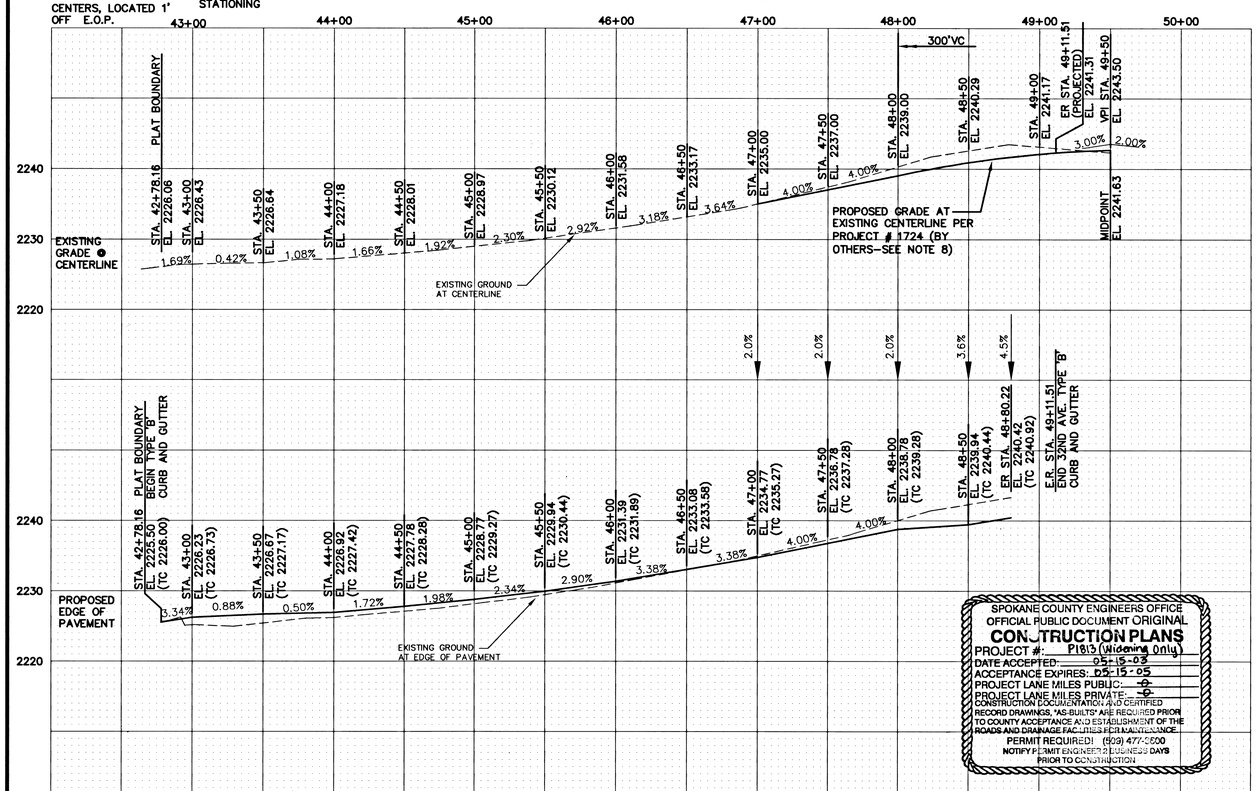
1. SEED ALL DISTURBED AREAS AND DRAINAGE CONVEYANCE AREAS (BETWEEN SIDEWALK AND BACK OF TYPE 'B' CURB & GUTTER) WITH DRYLAND GRASS SEED MIX, PER SPOKANE COUNTY STANDARDS.
2. CEMENT CONCRETE CURB AND GUTTER TYPE 'B' IS PER SPOKANE COUNTY STANDARD PLAN NO. A-3.
3. SIDEWALKS AND DRIVEWAYS ARE PER SPOKANE COUNTY STANDARD PLAN NO. A-4.
4. WHEELCHAIR RAMP (DESIGN 'B') IS PER SPOKANE COUNTY STANDARD PLAN NO. A-5.
5. CURB INLET TYPE 1 IS PER SPOKANE COUNTY STANDARD PLAN NO. B-8.
6. CEMENT CONCRETE APPROACH IS PER SPOKANE COUNTY STANDARD PLAN NO. A-7.
7. THE DRIVEWAY TO LOT 13 SHALL BE CONSTRUCTED NO FURTHER EAST THAN STATION 45+13 DUE TO SIGHT DISTANCE RESTRICTIONS.
8. SEE "32ND AVENUE SIGHT DISTANCE IMPROVEMENTS AT CHAPMAN ROAD INTERSECTION" ACCEPTED PLANS (SPOKANE COUNTY PROJECT #P1724) FOR INFORMATION REGARDING ADDITIONAL IMPROVEMENTS TO 32ND AVENUE EAST OF STATION 47+00, LEFT.

   DRAINAGE CONVEYANCE BERM/DAMS SHALL BE
9. CONSTRUCTED OF COMPACTED SOIL WITH TOP WIDTH 2' MIN. & SIDESLOPES 3H TO 1V.

ACP LEGEND	
	32ND AVE. IMPROVEMENTS WIDENING ACP
	32ND AVE. SIGHT DISTANCE IMPROVEMENTS AT CHAPMAN ROAD INTERSECTION (#P 1724) ACP.

CURB RETURN DATA – FACE OF TYPE 'B' CURB (THIS SHEET ONLY)

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	30.00'	47.03'	29.90'	89°48'46"



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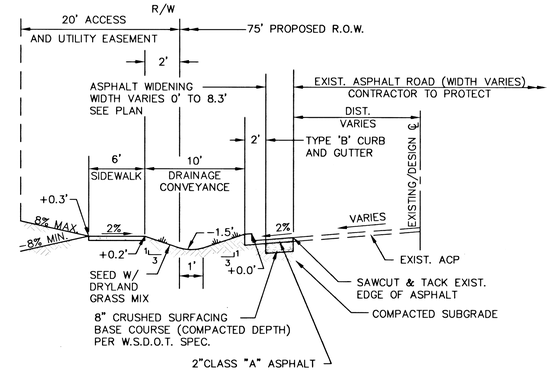
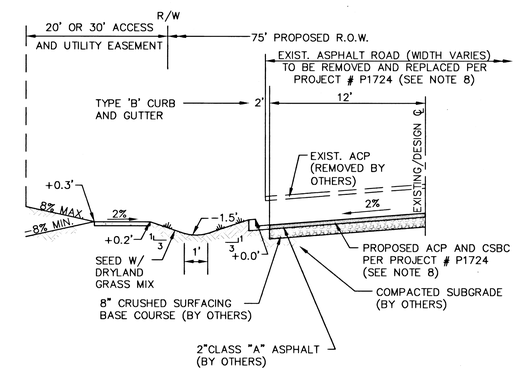


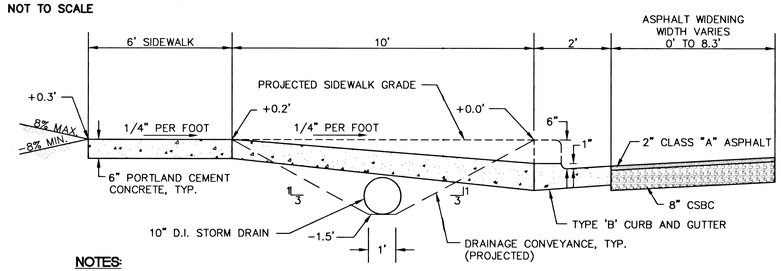
32ND AVE. ROAD WIDENING AND IMPROVEMENTS SECTION STA. 42+78.16 TO STA. 47+00.00

1/4 NOT TO SCALE



32ND AVE. ROAD IMPROVEMENTS SECTION STA. 47+00 TO STA. 49+11.51

2/4 NOT TO SCALE



NOTES:

1. SLOPE FROM DRIVEWAY EDGE TO 10" I.E. AT 3H TO 1V.
2. SEE SPOKANE COUNTY STANDARD PLAN NO. A-7 FOR ADDITIONAL INFORMATION REGARDING CEMENT CONCRETE APPROACHES.

LOTS 12 AND 13 DRIVEWAY SECTION

3/4 NOT TO SCALE

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ONE CALL NUMBER
48 HR. NOTICE REQUIRED

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1	03/03		MFM	MAA	ADDRESS SPOKANE COUNTY 02/27/03 COMMENTS

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MICHAEL F. MORRIS STATE OF WASHINGTON 29107 REGISTERED PROFESSIONAL ENGINEER 5/5/03
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Spokane Wa. 99260-0170
477-3600

Developer's Approval Richard D. Dahl Manager Date 5-5-3

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CADD FILE NAME: 02120R35.DWG

50 25 0 50 100
SCALE FEET

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

SALTESE MEADOWS

32ND AVENUE IMPROVEMENTS STA.42+78.16 TO STA. 49+11.51

ROAD
SHEET 1 / 1

P-1813 Eng Road Drainage

NOTES:

1. SEE SHEET 5 FOR STORM DRAINAGE STRUCTURES AND STORM PIPE PROFILES.
2. STREET NAME SIGNS ARE PER SPOKANE COUNTY STANDARD PLAN NO. A-16.
3. SEED ALL DISTURBED AREAS WITH DRYLAND GRASS SEED MIX PER NOTE 20, SHEET 8.

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

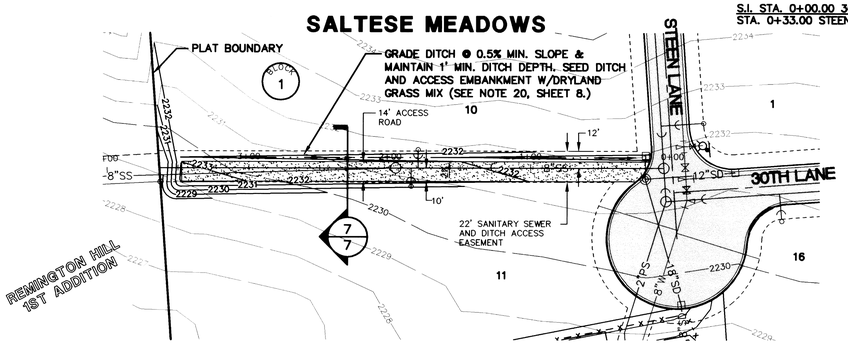
DEMOLITION AND REMOVAL LEGEND	
R1	REMOVE EXISTING CONCRETE CURB, GUTTER AND SIDEWALK FOR PROPOSED PRIVATE LANE.

CURB RETURN DATA-FACE OF TYPE 'B' CURB (THIS SHEET ONLY)

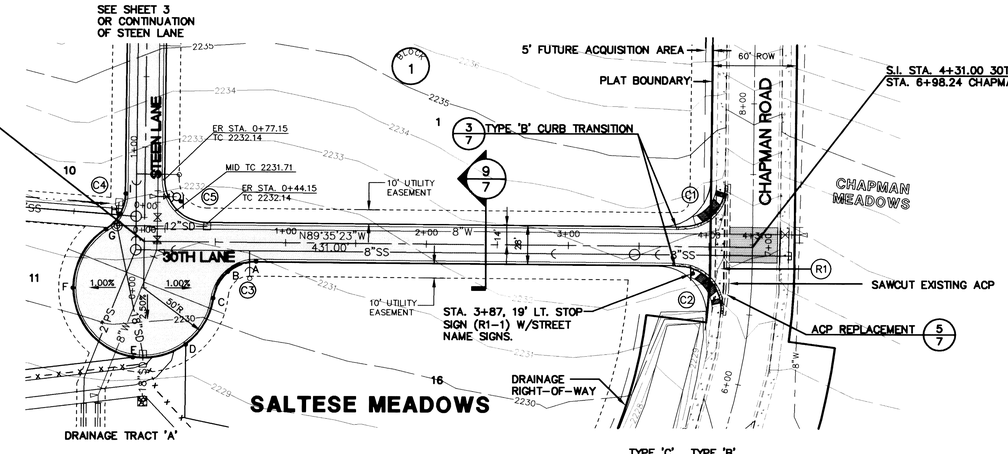
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	30.00'	47.01'	29.89'	89°47'15"
C2	30.00'	50.44'	33.51"	96°19'26"

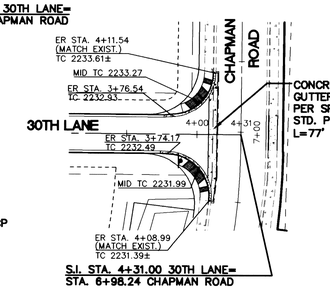
CURB RETURN DATA-TOP OF TYPE 'C' CURB (THIS SHEET ONLY)

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C3	30.50'	43.70'	26.56'	82°05'42"
C4	30.50'	30.15'	16.43'	56°37'55"
C5	30.50'	48.01'	30.60'	90°11'34"



SEWER AND DITCH ACCESS

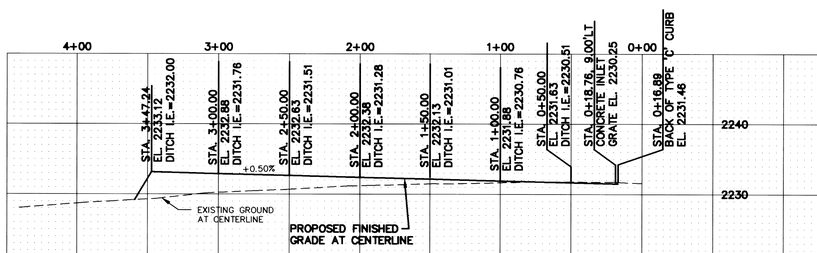




INTERSECTION DETAIL

NORTH

50 25 0 50 100
SCALE FEET
CONTOUR INTERVAL = 1'



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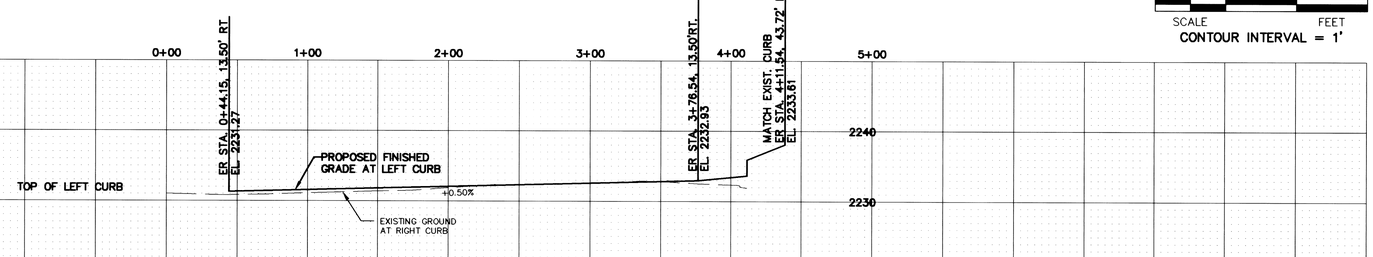
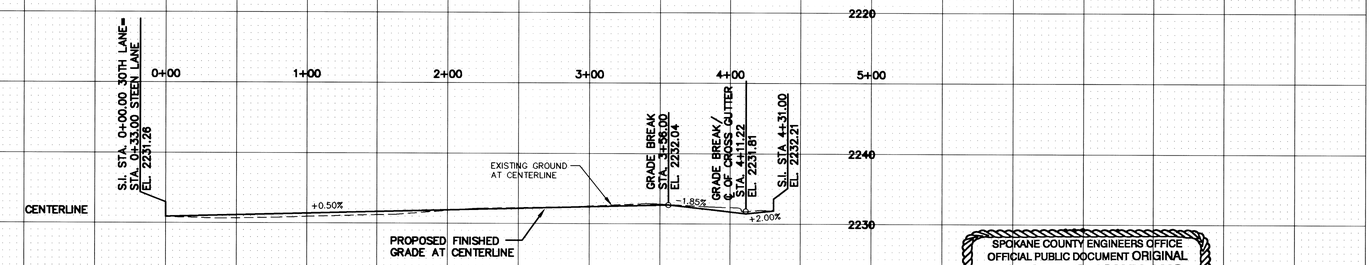
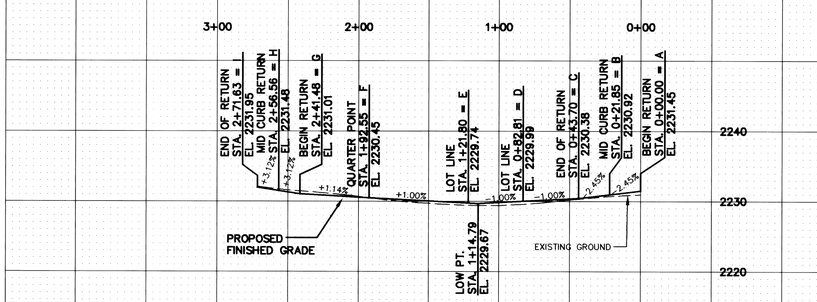
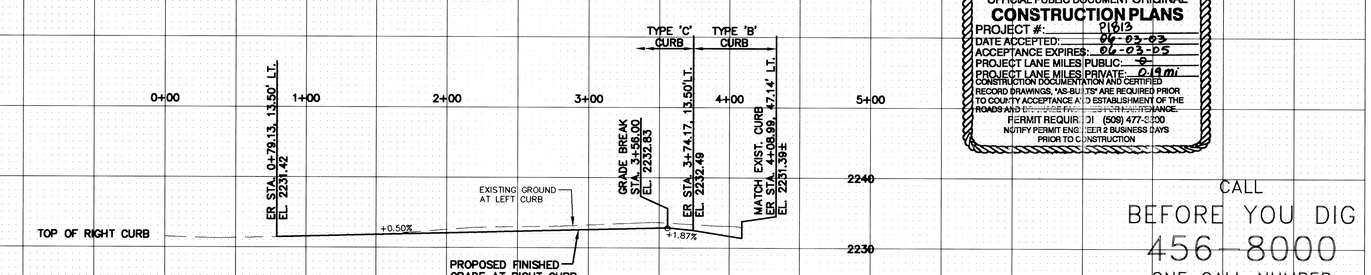






30TH LANE CUL-DE-SAC (TOP OF CURB)



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PERMIT REQUIRED (509) 477-3200
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CALL
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ONE CALL NUMBER
48 HR. NOTICE REQUIRED

No.	Date	By	Ckd.	Appr.	Revisions
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	Date
Drawn: ALB	02/03/03
Designed: MFM	02/03/03
Checked: MAA	02/03/03

MICHAEL F. MORRIS, STATE OF WASHINGTON, 28107, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2/1/05

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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 [signature] Date 6/2/3

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260-0170
477-3600

VERTICAL DATUM: REBAR W/VPC, 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: 02120R15.DWG

50 25 0 50 100
SCALE FEET

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

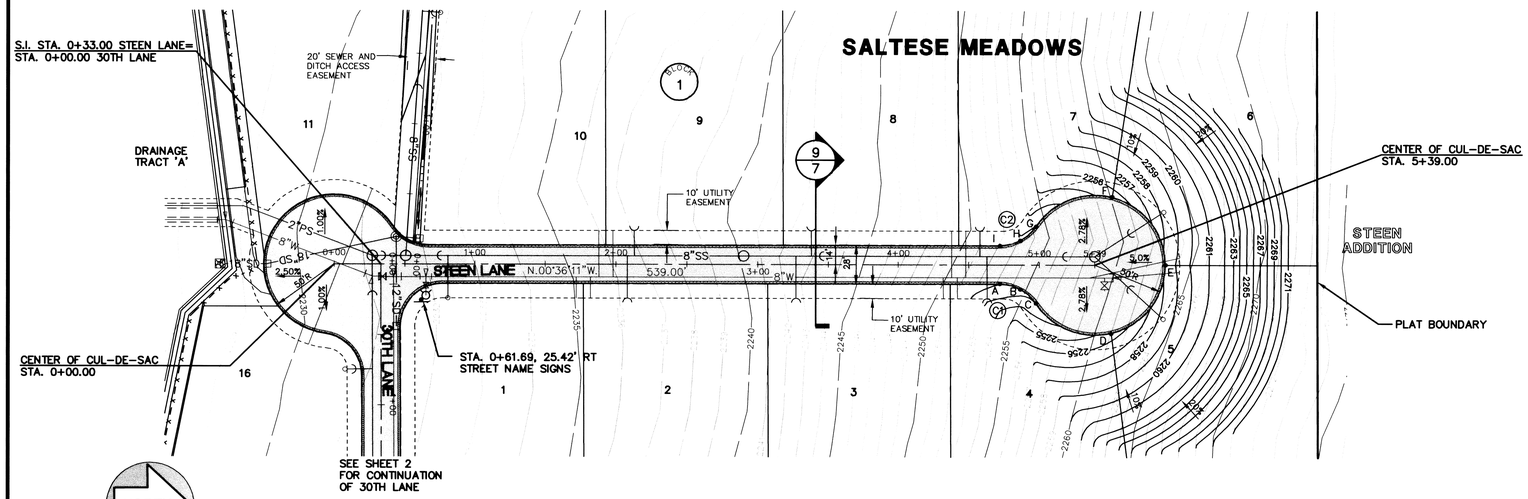
SALTESE MEADOWS

30TH LANE
STA.0+00.00 TO STA 4+31.00

ROAD
SHEET 2 / 9

P-1813 Eng Road & Drainage

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



CURB RETURN DATA – TOP OF TYPE 'C' CURB (THIS SHEET ONLY)				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
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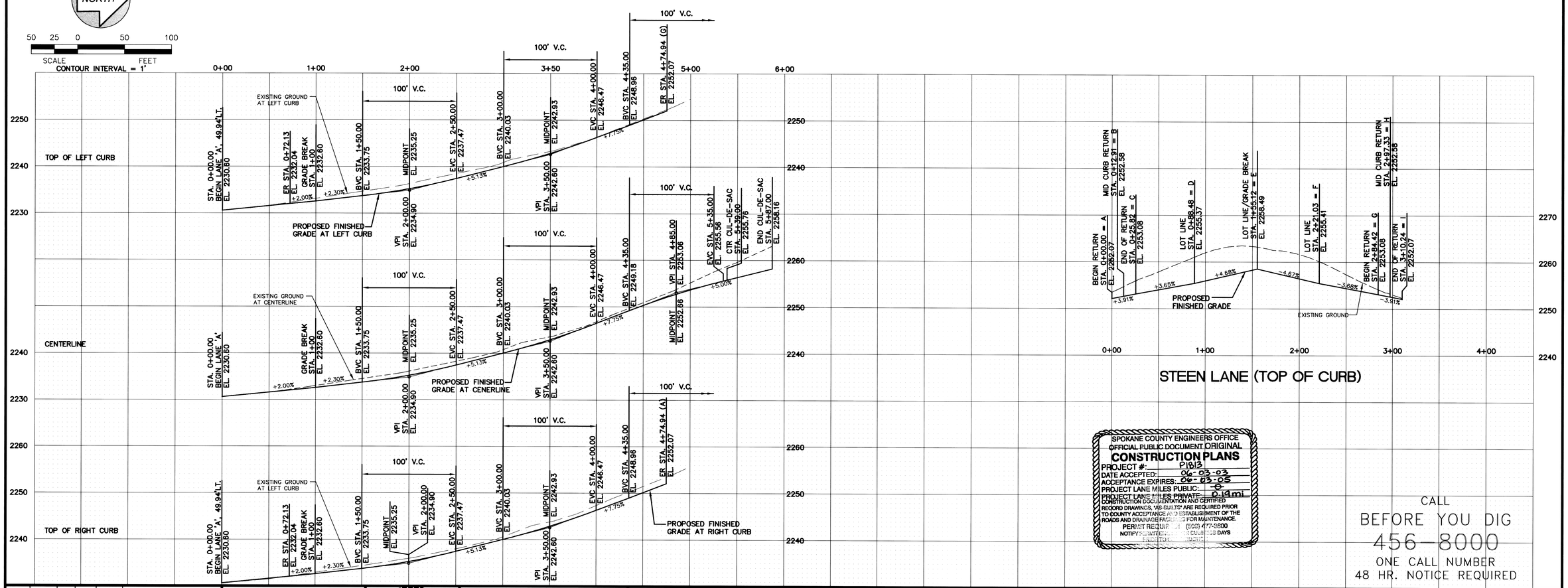
NOTES:

1. SEE SHEET 5 FOR STORM DRAINAGE STRUCTURES AND STORM PIPE PROFILES.
2. STREET NAME SIGNS ARE PER SPOKANE COUNTY STANDARD PLAN NO. A-16.
3. SEED ALL DISTURBED AREAS WITH DRYLAND GRASS MIX PER NOTE 20, SHEET 8.



STEEN LANE (TOP OF CURB)

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PERMIT REQUIRED (509) 477-3600
NOTIFY SCHEDULED WITHIN 30 CALENDAR DAYS
EXPIRES TO COMMENCE

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VERTICAL DATUM: REBAR W/YPC, 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: 02120R25.DWG

50 25 0 50 100
SCALE FEET

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

SALTESE MEADOWS

ROAD

STEEN LANE
STA.0+00.00 TO STA 5+39.00

SHEET 3 / 9

P-1813 Eng Roads + Drainage

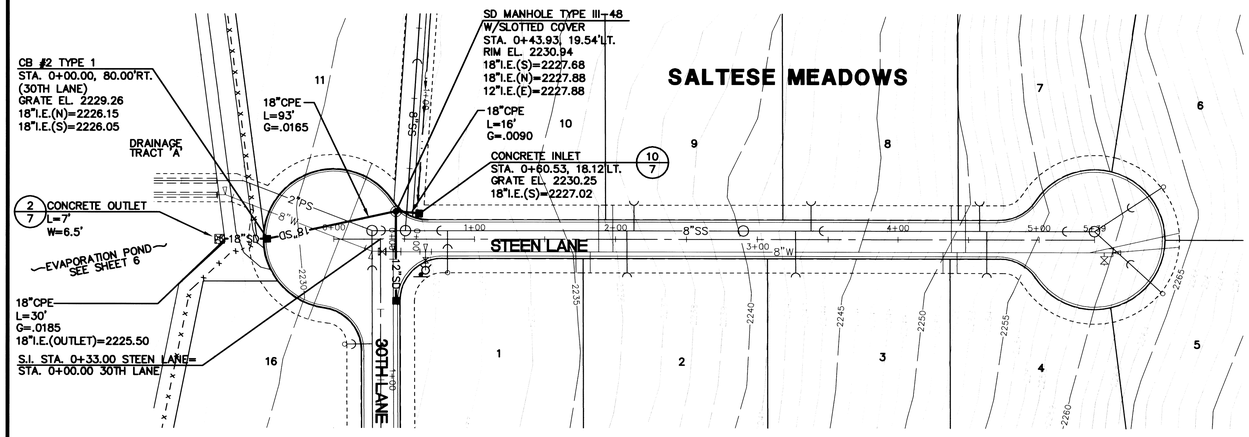
S.E. 1/4 OF S.25, T.25N., R.44E., W.M.

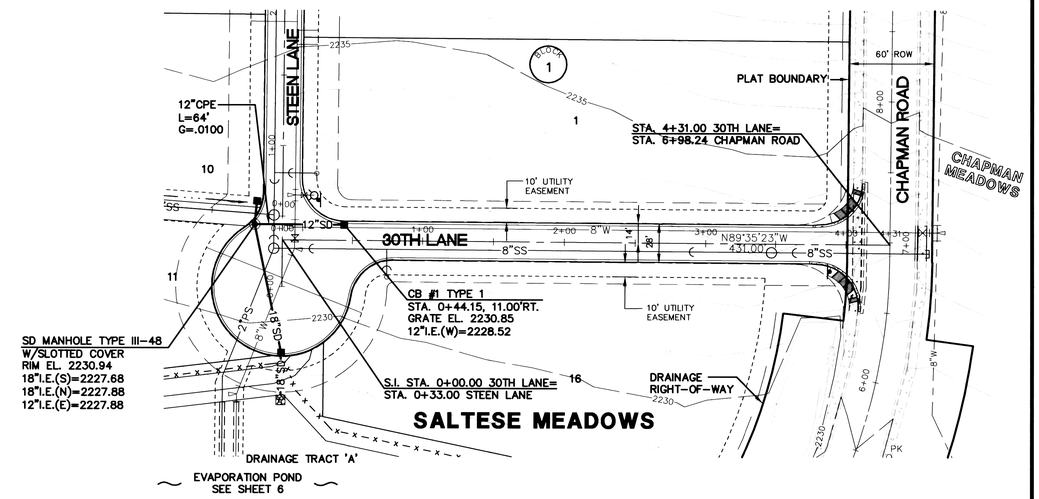
NORTH

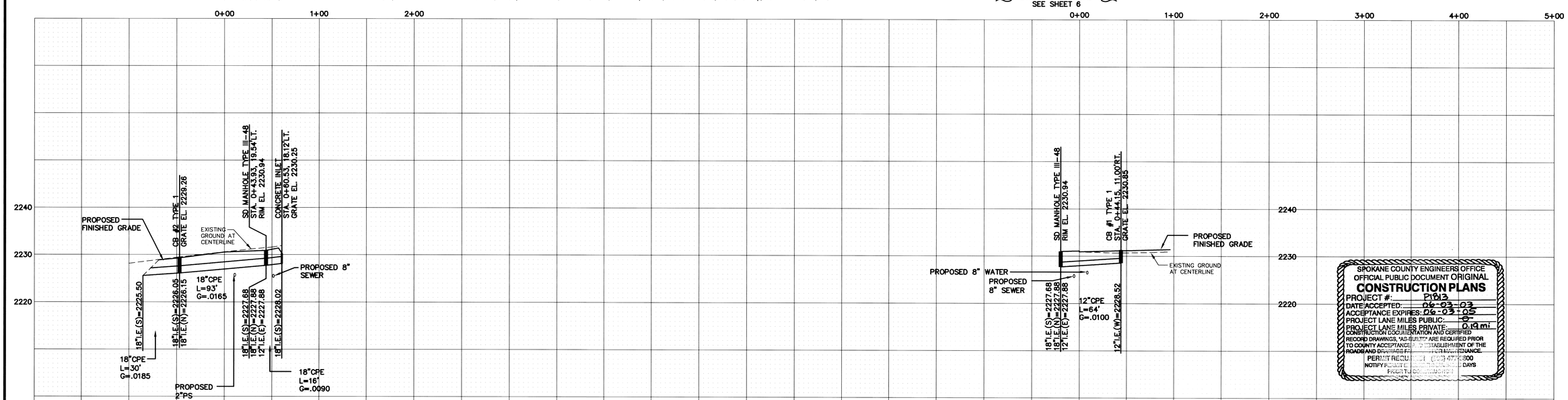
50 25 0 50 100
SCALE FEET
CONTOUR INTERVAL = 1'

NOTES:

1. CATCH BASIN TYPE 1 IS PER SPOKANE COUNTY STANDARD PLAN NO. B-4, WITH METAL GRATE TYPE 3 (FOR CB #1) & METAL GRATE TYPE 2 (FOR CB #2) PER SPOKANE COUNTY STANDARD PLAN NO. B-14 AND NO. B-13, RESPECTIVELY.
2. SLOTTED COVER IS PER SPOKANE COUNTY STANDARD PLAN NO. B-15, TYPE 3 (FRAME AND GRATE).
3. CONCRETE INLET IS PER SPOKANE COUNTY STANDARD PLAN NO. B-5, WITH METAL GRATE TYPE 2 PER SPOKANE COUNTY STANDARD PLAN NO. B-13 AND METAL FRAME TYPE 1 PER SPOKANE COUNTY STANDARD PLAN NO. B-10.
4. MANHOLE TYPE III-48 IS PER SPOKANE COUNTY STANDARD PLAN U-2.
5. CPE (CORRUGATED POLYETHENE SMOOTH INNER-WALL PIPE) STORM DRAINS SHALL MEET THE REQUIREMENTS OF AASHTO M-252 AND M-294.







SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1813
DATE ACCEPTED: 06-03-03
ACCEPTANCE EXPIRES: 06-03-05
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.19 mi
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE [illegible] ESTABLISHMENT OF THE ROADS AND DRAINAGE F[illegible] ACCEPTANCE.
PERMIT REQU[illegible] (509) 477-3600
NOTIFY P[illegible] DAYS PRIOR TO C[illegible]

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

No.	Date	By	Ckd.	Appr.	Revisions
2	04/03	ALB	MFM	MAA	ADDRESS SPOKANE COUNTY
					04/08/03 COMMENTS
1	03/03		MFM	MAA	ADDRESS SPOKANE COUNTY
					02/27/03 COMMENTS

Drawn	ALB	02/03/03
Designed	MFM	02/03/03
Checked	MAA	02/03/03

MICHAEL F. MORRIS — STATE OF WASHINGTON — 29107 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 2/1/05

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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 Olson Mgr Date 6/2/03

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260-0170
477-3600

VERTICAL DATUM: REBAR W/YPC, 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: 02120ST15.DWG

50 25 0 50 100
SCALE FEET

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

SALTESE MEADOWS

STORM SEWER PROFILES
30TH LANE and STEEN LANE

STORM SHEET 5 / 9

P-1813 Eng Road & Drainage

DETENTION AND CONSTRUCTION NOTES:

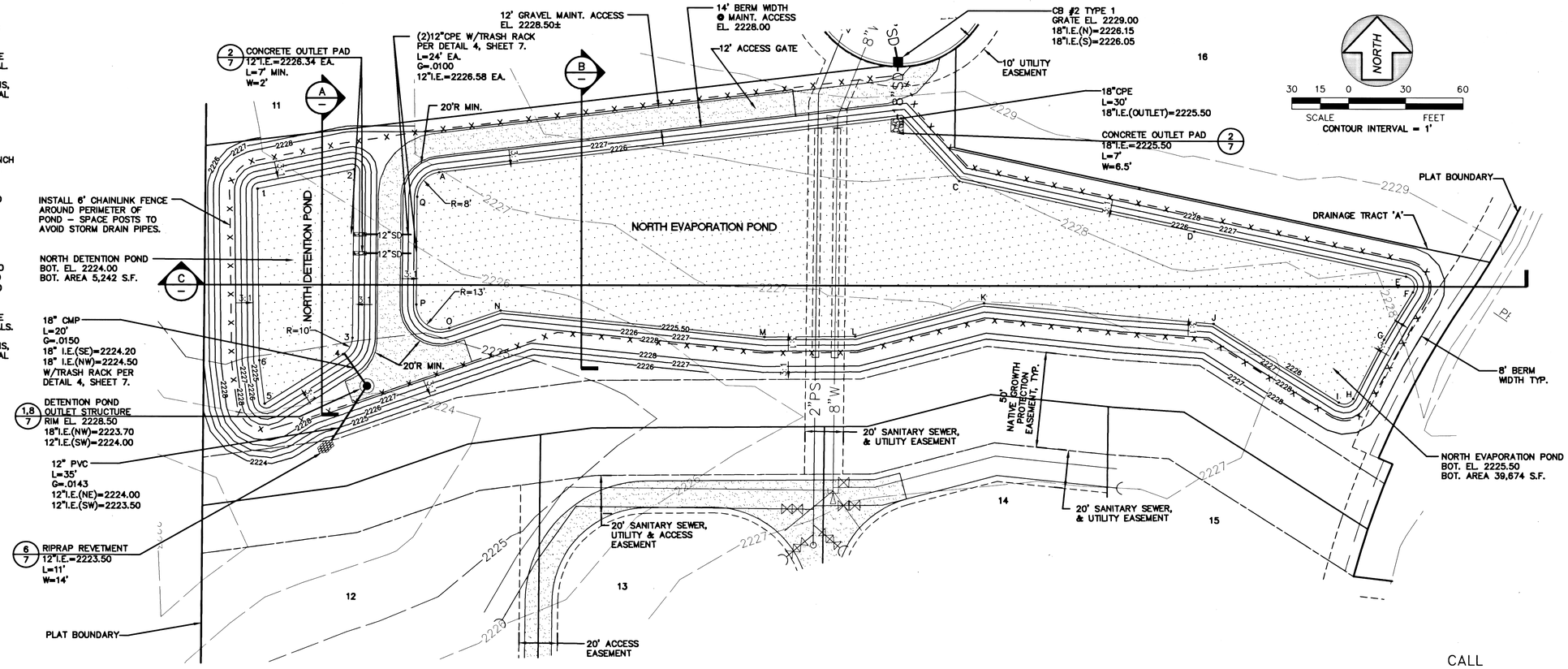
1. THE POND BOTTOM SHALL BE CUT FROM NATIVE ON-SITE SOILS AND LEFT UNCOMPACTED.
2. POND BERMS MAY BE CONSTRUCTED USING ANY NATIVE ON-SITE SOILS EXCEPT THE ON-SITE TOP SOIL AND SANDY SILT MATERIAL.
3. IF IMPORTED MATERIAL IS USED TO CONSTRUCT THE POND BERMS, THE MATERIAL SHALL CONSIST OF A SAND AND GRAVEL MATERIAL WITH NO PARTICLES LARGER THAN 5 INCHES IN DIAMETER AND NOT MORE THAN 25% PASSING THE #200 SIEVE.

EVAPORATION POND CONSTRUCTION NOTES:

1. CONSTRUCT POND BOTTOM AND INTERIOR SIDE SLOPES OF 12-INCH COMPACTED DEPTH NATIVE ON-SITE SANDY SILT SOIL MATERIAL.
2. PRIOR TO PLACEMENT OF SANDY SILT MATERIAL; SCARIFY, MOISTURE CONDITION AND/OR DRY SUBGRADE SOIL MATERIAL TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR DRY UNIT WEIGHT (AASHTO T-180 OR ASTM D1557).
3. THE ON-SITE SANDY SILT SOIL FOR POND BOTTOM AND SIDE SLOPES SHALL BE PLACED IN LIFTS NOT EXCEEDING 7-INCHES UNCOMPACTED DEPTH, MOISTURE CONDITIONED AND/OR DRIED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY UNIT WEIGHT (AASHTO T-180 OR ASTM D1557).
4. POND BERMS MAY BE CONSTRUCTED USING ANY NATIVE ON-SITE SOILS EXCEPT THE ON-SITE TOP SOIL AND SANDY SILT MATERIALS.
5. 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 25% PASSING THE #200 SIEVE.

DETENTION POND HORIZONTAL CONTROL		
SEGMENT	BEARING	DISTANCE
1-2	S78°38'11"W	51.62'
2-3	N00°29'19"E	88.59'
4-5	N57°33'26"E	48.57'
5-6	S07°00'27"E	22.97'
6-1	S00°40'57"E	90.25'

EVAPORATION POND HORIZONTAL CONTROL		
SEGMENT	BEARING	DISTANCE
A-B	S83°14'02"W	243.26'
B-C	S42°47'12"E	44.80'
C-D	N78°01'23"W	113.00'
D-E	N78°00'08"W	113.75'
F-G	S31°12'53"W	29.10'
G-H	N27°37'36"E	35.01'
I-J	S57°54'28"E	77.45'
J-K	N84°59'11"W	120.84'
K-L	N75°23'18"E	69.47'
L-M	N89°36'02"E	47.40'
M-N	S84°21'30"E	138.92'
N-O	N70°53'50"E	28.42'
P-Q	S00°25'12"W	56.72'



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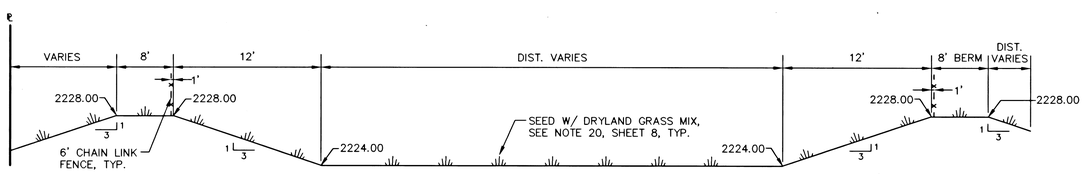
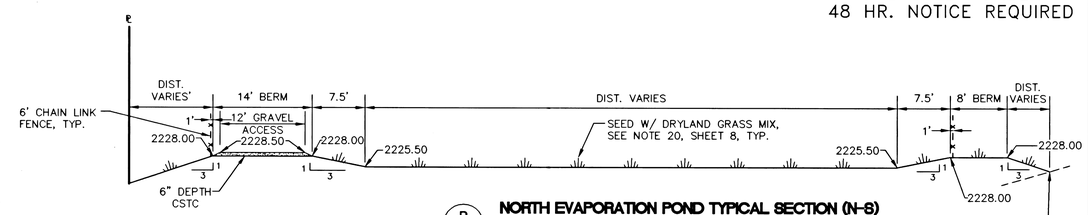


A — NORTH DETENTION POND TYPICAL SECTION (N-S)

NOT TO SCALE



B — NORTH EVAPORATION POND TYPICAL SECTION (N-S)

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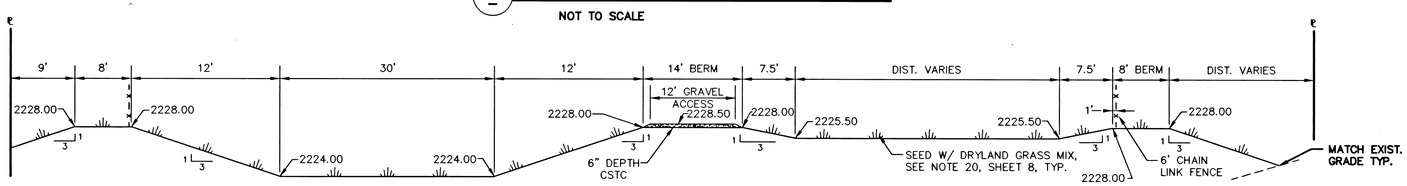

C — NORTH EVAPORATION AND DETENTION PONDS TYPICAL SECTION (W-E)

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1813
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ACCEPTANCE EXPIRES: 06-03-05
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PROJECT LANE MILES PRIVATE: 0.19mi
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

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					04/23/03 COMMENTS
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1	03/03		MFM	MAA	ADDRESS SPOKANE COUNTY
					02/27/03 COMMENTS

		Date
Drawn	ALB	02/03/03
Designed	MFM	02/03/03
Checked	MAA	02/03/03

MICHAEL F. MORRIS — STATE OF WASHINGTON — 29107 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2/1/05

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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 _____ Date 6/2/3

SPOKANE COUNTY PUBLIC WORKS
DIVISION OF ENGINEERING AND ROADS
W. 1026 Broadway Ave.
Spokane Wa. 99260-0170
477-3600

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CADD FILE NAME: 021200 3.DWG

30 15 0 30 60
SCALE FEET

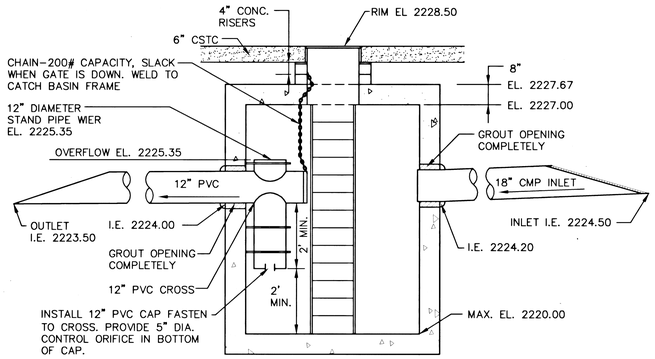
SCALE
HORIZ. AS NOTED
VERT. N/A

SALTESE MEADOWS

EVAPORATION AND DETENTION PONDS STORM DETAILS

DETAIL
SHEET 6 / 9

P-1813 Eng Road Drawings

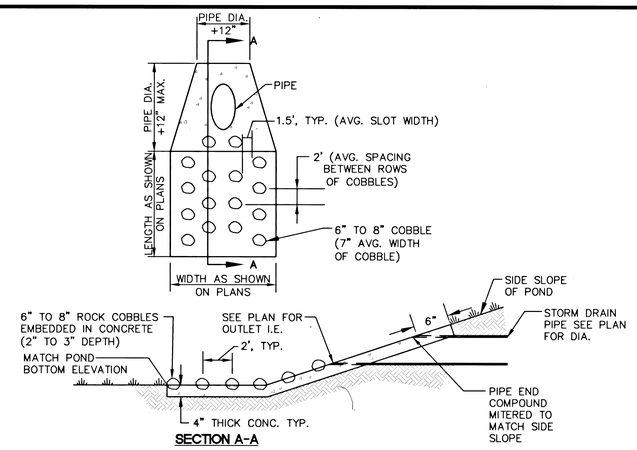


NOTE:

1. ALL METAL PARTS SHALL BE CORROSION RESISTANT OR GALVANIZED METAL PARTS.

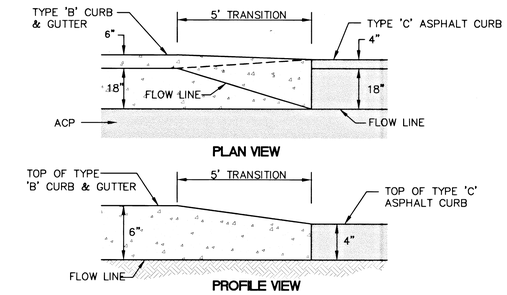
1/6 DETENTION POND OUTLET STRUCTURE

NOT TO SCALE



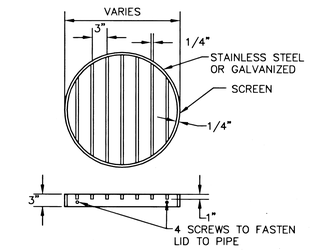
2/– CONCRETE OUTLET PAD

NOT TO SCALE



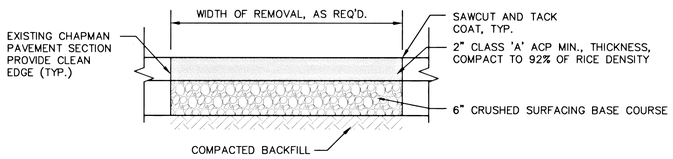
3/2 CURB TRANSITION

NOT TO SCALE



4/– TRASH RACK

NOT TO SCALE



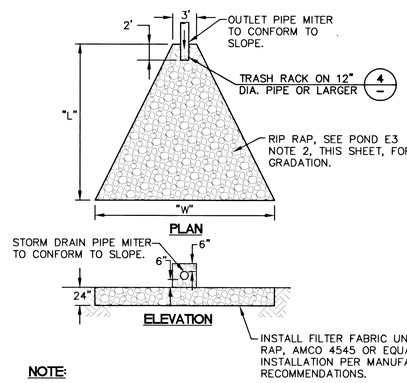
NOTES:

1. CRUSHED SURFACING TOP COURSE AND BASE COURSE SHALL CONFORM TO WSDOT STANDARD SPECIFICATION SECTION 9-03.9(3). CRUSHED SURFACING TO BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION SECTION 4-04. ALL GRAVEL COURSES, SHALL RECEIVE A TREATMENT OF HERBICIDE PER THE MANUFACTURER'S RECOMMENDED RATE. THE HERBICIDE SHALL BE APPROVED BY THE WASHINGTON CONTRACTING AGENCY DEPARTMENT OF AGRICULTURE.

2. CLASS 'A' ASPHALT CONCRETE SHALL BE A MIX DESIGN APPROVED BY WSDOT FOR THE CURRENT YEAR. ALL THE PROVISIONS OF THE WSDOT STANDARD SPECIFICATION SECTION 5-04 EXCEPT THE PROVISIONS ON MEASUREMENT AND PAYMENT, SHALL APPLY TO THE PLACEMENT OF THE ASPHALT CONCRETE.

5/2 ASPHALT PAVEMENT REPLACEMENT

NOT TO SCALE

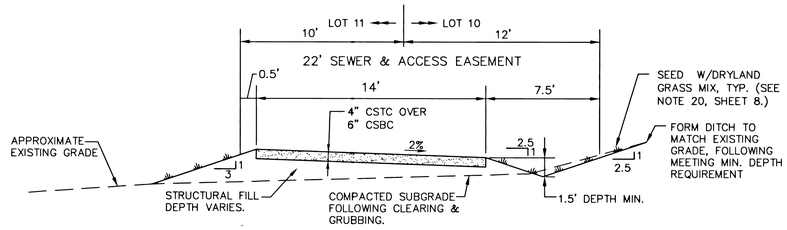


NOTE:

1. RIP RAP SHALL BE INSTALLED 2' THICK WITH THE FOLLOWING GRADATION:
   40% TO 90% MAX. STONE SIZE=24" DIA.
   70% TO 90% MED. STONE SIZE=16" DIA.
   10% TO 30% MIN. STONE SIZE=4" DIA.

6/6 RIPRAP REVETMENT

NOT TO SCALE



7/2 SEWER AND DITCH ACCESS SECTION

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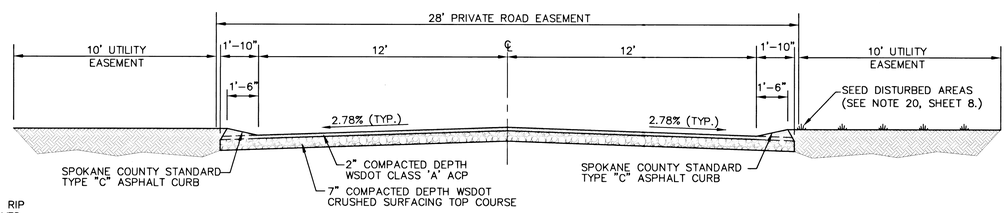
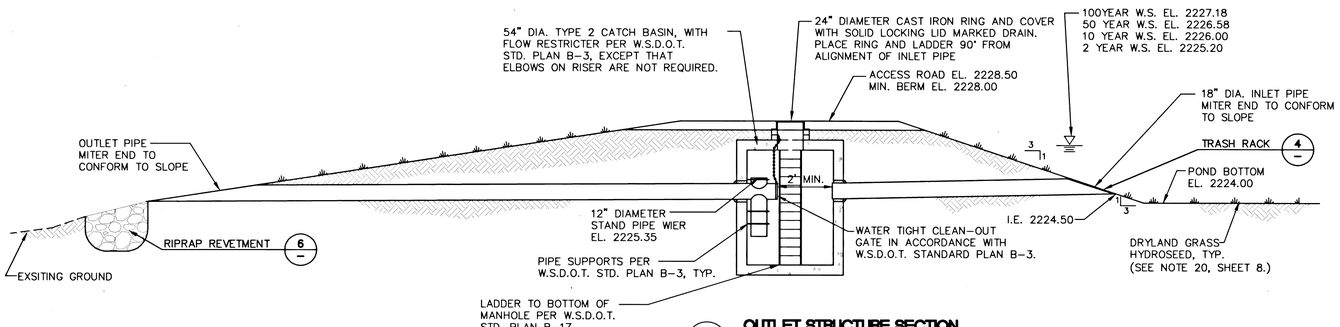


9/2,3 STEEN LANE AND 30TH LANE PRIVATE ROAD SECTION

NOT TO SCALE



8/6 OUTLET STRUCTURE SECTION

NOT TO SCALE

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PROJECT #: P1913
DATE ACCEPTED: 06-03-03
ACCEPTANCE EXPIRES: 06-03-05
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.14 mi
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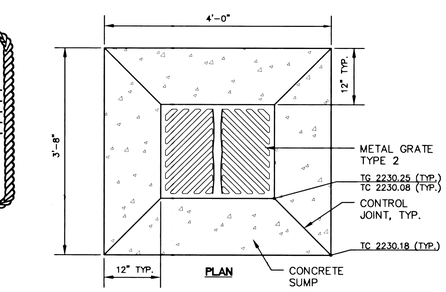

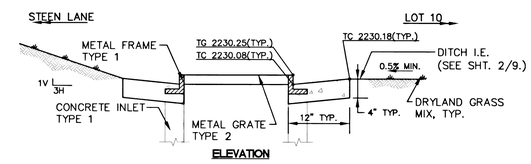

10/5 CONCRETE INLET SUMP

NOT TO SCALE

No.	Date	By	Ckd.	Appr.	Revisions
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					02/27/03 COMMENTS

		Date
Drawn	ALB	02/03/03
Designed	MFM	02/03/03
Checked	MAA	02/03/03

MICHAEL F. MORRISON — STATE OF WASHINGTON — 29107 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 2/1/05

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477-3600

VERTICAL DATUM:

CADD FILE NAME: 02120D2.DWG

SCALE
HORIZ. N.T.S.
VERT. N.T.S.

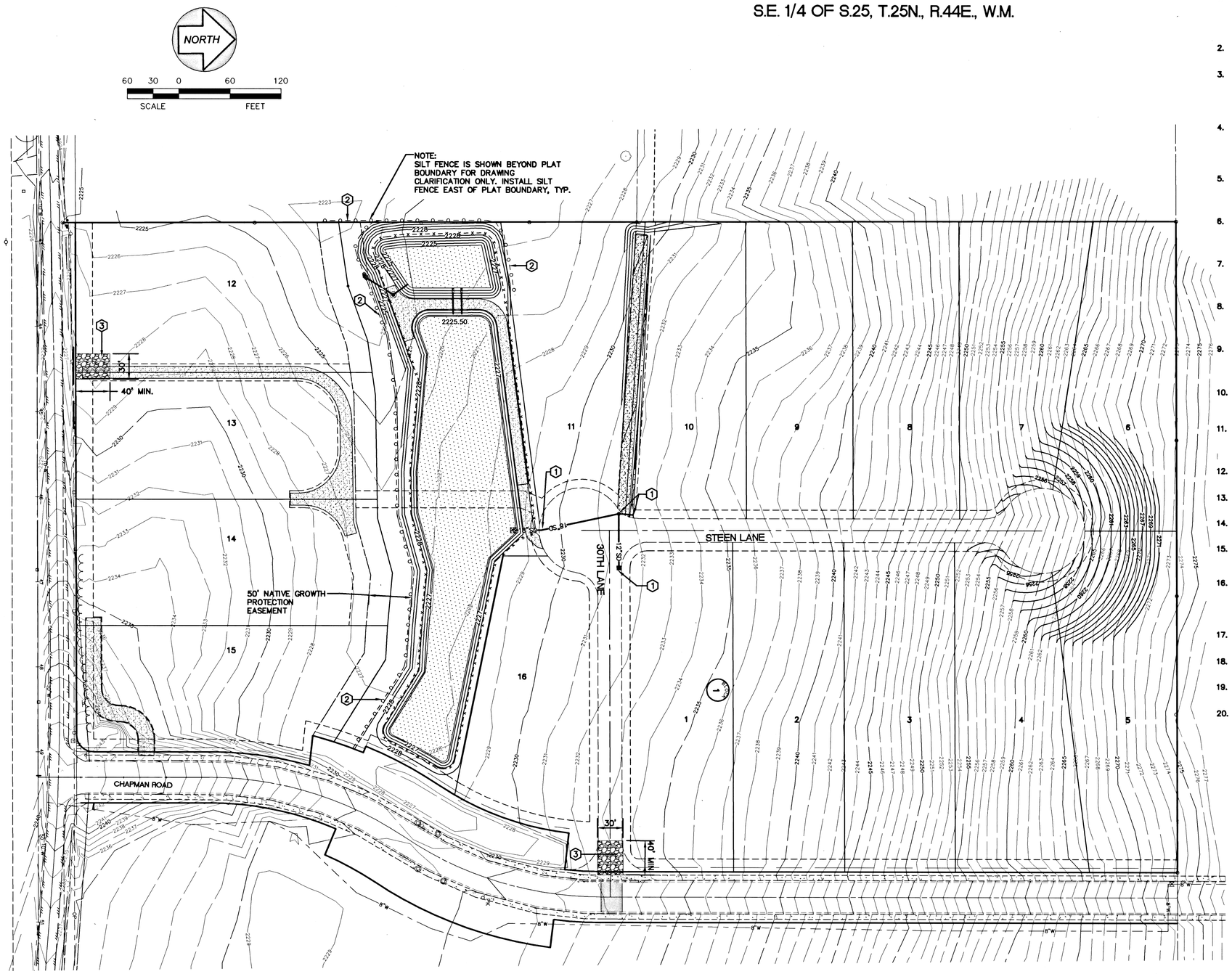
SALTESE MEADOWS

ROAD AND DRAINAGE DETAILS

DETAIL
SHEET 7/9

P-1813 Eng Road Drawing

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



EROSION CONTROL NOTES:

1. AN EROSION/SEDIMENT CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF 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.
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 ANTICIPATE SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, 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 RIM AND GRATE 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.
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 SCAPCA 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 DOWNSTREAM 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 SWALE, DRAINAGE AREA, STORMWATER FACILITY OR WATER BODY, EITHER EXISTING OR PROPOSED. HARDENED WASH CONCRETE SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
10. CONTRACTOR SHALL IDENTIFY A LOCATION FOR STORAGE/STOCKPILE AREAS (WITHIN THE PROPOSED ESC PLAN BOUNDARIES) FOR ANY SOIL, EARTHEN 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-DISTURBING 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 DRYLAND GRASS SEED.
16. EROSION CONTROL STRUCTURES BELOW SODDED OR RIP RAPPED AREAS MAY BE REMOVED ONCE SOD 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/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, 300LBS PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS, SEC. 8-01.

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

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1813
DATE ACCEPTED: 06-03-03
ACCEPTANCE EXPIRES: 06-03-05
PROJECT LANE MILES PUBLIC: .8
PROJECT LANE MILES PRIVATE: 0.19mi
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 M. Sahlin Mgr. Date 6/2/3

CONSTRUCTION NOTES:

1. INSTALL SILT FENCE DROP INLET SEDIMENT BARRIER, SEE DETAIL 2, SHEET 9.
2. INSTALL SILT FENCE, SEE DETAIL 3, SHEET 9.
3. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 1, SHEET 9.

MICHAEL F. MORRIS STATE OF WASHINGTON 29107 REGISTERED PROFESSIONAL ENGINEER
EXPIRES 2/1/05

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.

REVISIONS

DWN: ALB DATE: 02/03/03
CK'D: MFM DATE: 02/03/03

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

SCALE: 1"=60'

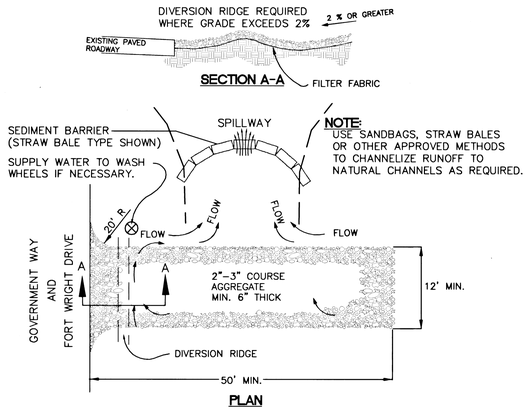
SHEET 8 OF 9

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

SALTESE MEADOWS

CADD FILE: 02120-ER01

P1813 Eng Road & Drainage

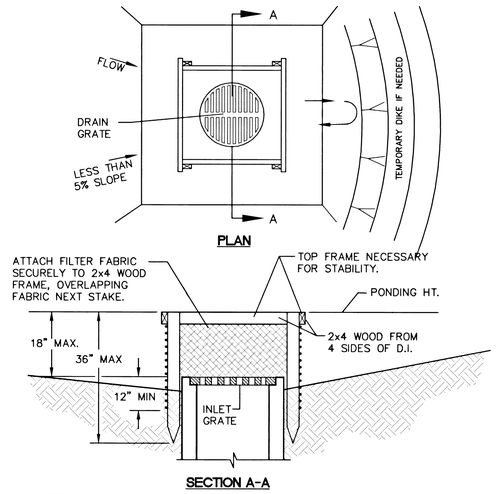


NOTES:

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 CLEANOUT OF ANY MEASURES USED TO TRAP 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.

1/8 **ROCK CONSTRUCTION ENTRANCE**

NOT TO SCALE

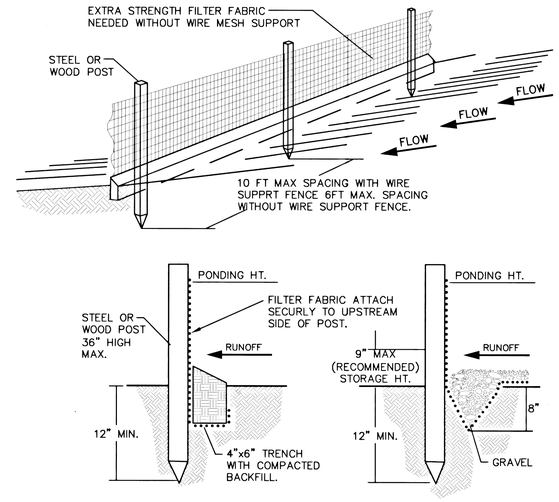


NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR STORM SYSTEM PROTECTION.
2. USE 2X4 WOOD OR EQUIVALENT METAL STAKES, (3 FT. MIN. LENGTH)
3. INSTALL 2X4 WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

2/8 **SILT FENCE DROP INLET SEDIMENT BARRIER**

NOT TO SCALE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

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. SILT FENCE SHALL BE PLACED IN SLOPE CONTOURS TO MAXIMIZE PONDING EFFIECENCY. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.

3/8 **SILT FENCE**

NOT TO SCALE

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SCALE: 1"=50'

SHEET 9 OF 9

TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS

SALTESE MEADOWS

CADD FILE 02120-ER01

P-1813 Eng Road & Drainage