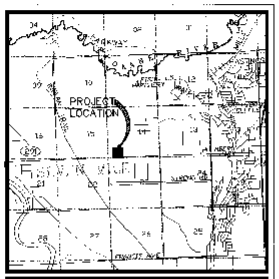
SHAWNEE CANYON ESTATES

STREET AND DRAINAGE PLANS

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



VICINITY MAP

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

LEGEND

EXISTING | GENERAL | PROPOSED

GENERAL
- SECTION LINE
- PRIVATE ROAD EASEMENT
- PROPERTY LINE
- EASEMENT LINE
- CURB
- DITCH
- REAL DEPARTMENT

STORM DRAINAGE
- DRAINAGE LINE
- CATCH BASIN
- DITCH

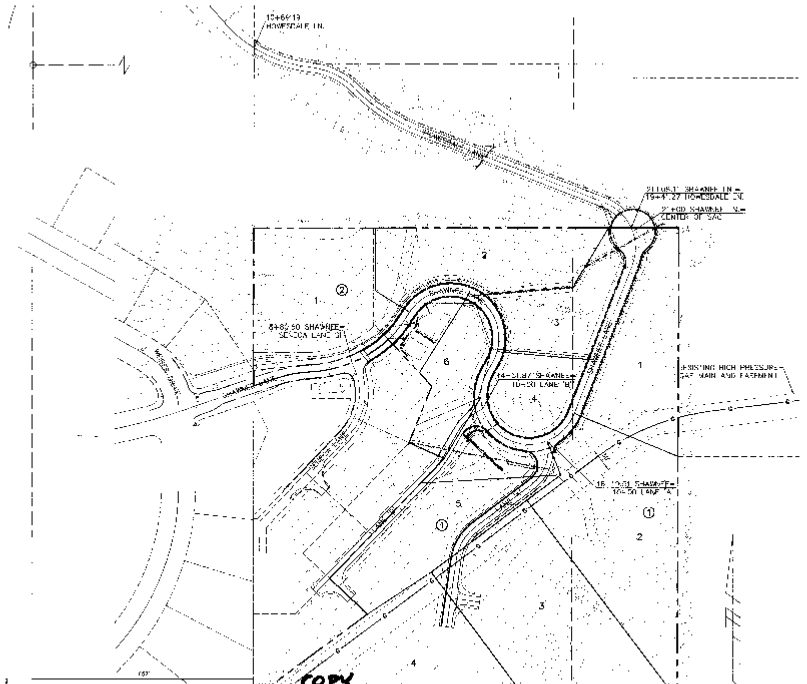
SANITARY SEWER
- SANITARY SEWER
- MANHOLE
- CLEANOUT
- SEWER SERVICE

WATER
- WATER LINE
- VALVE
- FIRE HYDRANT
- SERVICE
- BLOWOFF

ABBREVIATIONS

SAN	SANITARY SEWER
WM	WATER MAIN
MH	MAN HOLE
EXIST	EXISTING
CO	STATION (TEAROUT)
HYD	HYDRANT
RT	RIGHT
LT	LEFT
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CT	COURT
RD	ROAD
LN	LANE
STA	STATION
S.L.	STATION LINE
ACT	ACTUAL LENGTH
G	GRADE
I.E.	INVERT ELEVATION
RIM EL	RIM ELEVATION
DIA	DIAMETER
SI	STREET INTERSECTION
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
TA	TOP OF ASPHALT
GL	GRAVELUNAL

DATUM
BASED ON CITY DATUM, [illegible]
S.E. CORNER OF ARTHUR AND W. SHAWNEE
"A.T." MNC = 1.57 FEET CITY ELEVATION
1966.972 13.13 = [illegible]



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # V1926
DATE ACCEPTED: 09-14-00
ACCEPTANCE EXPIRES: 09-14-02
PROJECT LANE MILES PUBLIC: 1.71
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION WAS CERTIFIED
RECORD DRAWINGS, AS-BUILTS, ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND REIMBURSEMENT OF THE ROADS AND DRAINAGE FACILITIES PERMANENT PLAT
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEERS 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # [illegible]
DATE ACCEPTED: [illegible]
ACCEPTANCE EXPIRES: [illegible]
PROJECT LANE MILES PUBLIC: [illegible]
PROJECT LANE MILES PRIVATE: [illegible]
CONSTRUCTION DOCUMENTATION WAS CERTIFIED
RECORD DRAWINGS, AS-BUILTS, ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND REIMBURSEMENT OF THE ROADS AND DRAINAGE FACILITIES PERMANENT PLAT
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEERS 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
GRAPHIC SCALE
0 50 100 200
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # [illegible]
DATE ACCEPTED: 09-14-01
ACCEPTANCE EXPIRES: 09-13-03
PROJECT LANE MILES PUBLIC: 1.71
PROJECT LANE MILES PRIVATE: [illegible]
CONSTRUCTION DOCUMENTATION WAS CERTIFIED
RECORD DRAWINGS, AS-BUILTS, ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND REIMBURSEMENT OF THE ROADS AND DRAINAGE FACILITIES PERMANENT PLAT
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEERS 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

EXPIRES 6/30/2002

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE COMPLETION OF THE PROJECT. INTERSECTIONS SHOWN ON THESE DRAWINGS OR SPECIFIED TO BE PERFORMED, INVOLVE OR DISTURB UTILITIES OR FOR SAFETY REASONS, WILL BE PERFORMED.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPROVED COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, UNLESS OTHERWISE NOTED.
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIify THE ENGINEER PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE ENGINEER'S NOTICE OF ANY DISCREPANCY WITHIN 48 HOURS OF THE ENGINEER'S RECEIPT OF NOTICE. [illegible]
8. FOR CONSTRUCTION OF DRIVEWALS, INSTALL PLASTIC FABRIC, WOODEN BOARDS OR APPROVED EQUIVALENT, BETWEEN THE DRIVEWAY SURFACE AND THE GRAVEL DRAINAGE, AND REPAIRS, THE MAX LIP OF DRIVEWAY AND THE [illegible] HOURS, THE DRIVEWAY SHALL BE CLEANED TO A [illegible]
9. [illegible]
10. ALL DRYWELL CONNECTIONS, PIPES SHALL BE PLACED BELOW THE DRYWELL COVER, UNLESS THE PIPE IS DIRECTED IN THE PLANS.
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]

TABLE OF CONTENTS

COVER SHEET	SHEET 1
INTERSECTION AND STREET DETAILS	SHEET 2
SHAWNEE LN. (84+80.60 TO 15+50)	SHEET 3
SHAWNEE LN. (16+50 TO 21+08.11)	SHEET 4
HOWESDALE LN. (10+69.19 TO 19+41.27)	SHEET 5
LANE 'A'	SHEET 6
LANE 'B'	SHEET 7
POND DETAILS	SHEET 8
DRAINAGE CHANNEL & CULVERT	SHEET 9
ONSITE DRAINAGE	SHEET 10
ONSITE DRAINAGE	SHEET 11
BY-PASS CULVERT	SHEET 12
DEVELOPED SITE PLAN	SHEET A1

DEVELOPER'S APPROVAL — DATE 9/7/01

Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
[illegible]
[illegible]
PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. CURTIS, P.E.
WASHINGTON REGISTRATION
NO. 27401
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

Mark	Date	Description
1	08/28/01	ORIGINAL PRELIMINARY
2	09/07/01	SPOKANE COUNTY 1st [illegible]

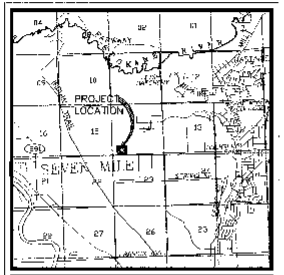
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
COVER
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET COVER

SHAWNEE CANYON ESTATES

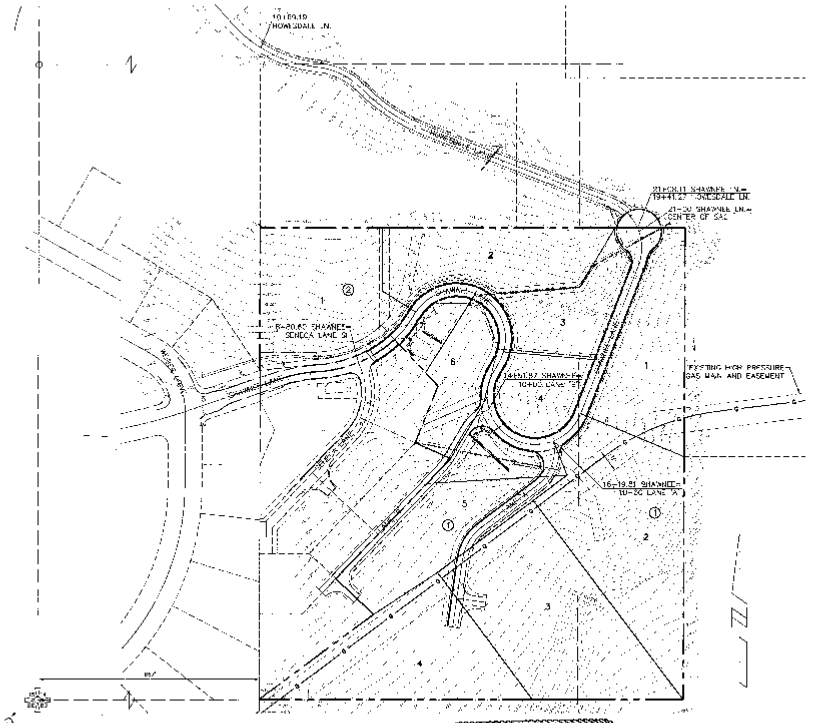
STREET AND DRAINAGE PLANS

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



VICINITY MAP

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



LEGEND

EXISTING	GENERAL	PROPOSED
	BOUNDARY LINE	
	ADJACENT BOUND. EASEMENT	
	PROPERTY LINE	
	LOT LINE	
	CURB	
	PAVEMENT	
	FLAT BOUNDARY	
	STORM DRAINAGE	
	DRAINAGE LINE	
	INFILTRATION	
	CATCH BASIN	
	DITCH	
	SANITARY SEWER	
	SAN. SEWER SERVICE	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
	FIRE HYDRANT	
	SPRINKLER	
	RUNOFF	

ABBREVIATIONS

SAN	SANITARY SEWER
WM	WATER MAIN
MH	MANHOLE
EXIST	EXISTING
CO	STATION (TRANSIT)
HYD	HYDRANT
RT	RIGHT
LT	LEFT
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
CT	COURT
RD	ROAD
LN	LANE
STA	STATION
STA L	STATION LENGTH
ACT	ACTUAL LENGTH
G	GRADE
I.E.	INVERT ELEVATION
RIM EL	RIM ELEVATION
UA	UNDERLAY
SI	STREET INTERSECTION
BDY	BOUNDARY
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
TA	TOP OF ASPHALT
CL	CENTERLINE

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE COMPLETION OF THE IMPROVEMENTS PROPERLY SHOWN ON THESE DRAWINGS. IF THE WORK IS NOT IN ACCORDANCE WITH THE SPECIFICATIONS, NO PAYMENT WILL BE MADE.
2. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, 1988, AND AS AMENDED.
3. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE STOP WORK ORDER AND THE POSSIBLE REMOVAL OF SHORT TERM CONTINUED WITHOUT THE PERMIT.
4. THE CONTRACTOR IS REQUIRED TO HAVE A DRAINABLE SUBGRADE (AND GRAVELED ROAD AND DRAINAGE PLANS ON THE SITE BEFORE CONSTRUCTION IS TO BEGIN.
5. LOCATING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, AND COMPLETING UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
6. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 (WITHIN WASH).
7. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, WITHIN NORMAL BUSINESS HOURS. THE ENTIRE PROJECT IMPROVEMENTS PLANNED FOR THE SUBDIVISION ARE BASED ON THE SPOKANE COUNTY ENGINEER'S ACCEPTANCE OF THE SPOKANE COUNTY ENGINEER AT 477-3600.
8. FOR CONSTRUCTION OF DRIVEWAYS, INSTALL PIPE FABRIC (WOVEN) AREAS OR APPROVED FILTER MATERIAL IN THE TRENCH BELOW THE DRIVEWAY, AND THE PARALLEL DRAINAGE, AND ULTIMATELY THE PARALLEL DRAINAGE SHALL BE THE NORMAL SOILS PER SPOKANE COUNTY STANDARDS 1988.
9. THE CONTRACTOR SHALL MAKE EARTH MOVEMENT TO PRODUCE ALL GRADE DESIGN AND INSTALLED FROM WHICH DOES NOT EXCEED 3:1 (H:V). BY REPLACING MORE COMPACTED MATERIAL THE METAL FRAME AND GRATE DURING SITE CONSTRUCTION, AND APPROVED IN PLACE UNTIL THE ESTABLISHMENT OF GRASS AND THE ACCEPTANCE BY THE PARKS AND RECREATION.

   IN THE EVENT SLOPE OR OTHER DESTABILIZING MATERIAL IS ALLOWED TO ENTER A DRAINAGE OR DETENTION BASIN, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE REMOVAL OF THE MATERIAL UNDERLAY.
10. ALL DRIVEWAY CONNECTION PIPES SHALL BE PLACED BELOW THE DRIVEWAY CONCRETE CAP AND SHALL BE FOUND AS SPECIFIED IN THE PLANS.
11. ALL CURB DROP INLETS ARE TO HAVE A 4" DEPRESSION, PER FIGURE 18, PAGE 6-34 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL GUTTER INLETS SHALL BE CONSTRUCTED AS A 4" DEPRESSION PER STANDARD DETAIL 1.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF THE CONSTRUCTION ACTIVITY. CLEANING SHALL BE DONE AS THE INTERIM BASIS USING WATER SWEEPER EQUIPMENT. SWEEPING AND WATER SHALL BE DONE WITHIN SWEEPER EQUIPMENT AND SHALL NOT BE DONE BY THE HAND FOR THE SHOVEL.
13. THE FLOOR OF A GRASSED PERCOLATION AREA (GPA) SINGLE INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SINGLE AND THE SIDEWALLS UP TO THE SPILLWAY. THE GPA SHALL HAVE LEVEL ON THE SIDE WALLS. THE SOIL LEVEL SHALL BE 1 FOOT ABOVE THE GPA SINGLE SHALL BE A MINIMUM 18" AREA GROUND WATER. THE GPA MINIMUM INTERIOR PART OF THE SINGLE FOR THE FINISHED GRADE AND THE GRADE OF THE GPA SINGLE SHALL BE A MINIMUM 18" ABOVE THE GROUND WATER. THE GPA SHALL BE PLANTED WITH GRASS. THE GPA SHALL BE INSPECTED BY THE SPOKANE COUNTY ENGINEER PRIOR TO INSTALLING THE FINISHED LANDSCAPING AND PRIOR TO FINAL ACCEPTANCE. THE SINGLE FLOOR MATERIAL SHALL BE BASED ON THE INFILTRATION RATE OF THE NATIVE SOIL. THE GPA SHALL BE PLANTED WITH GRASS AND THE INFILTRATION RATE OF THE NATIVE SOIL.
14. THE SPOKANE COUNTY ENGINEER REQUIRES SOIL TESTS WHERE INFILTRATION POND DEPTHS ARE GREATER THAN 8 INCHES. ONE (1) TEST PITS FOR CATCH EXCHANGE CAPACITY AND CONTAMINANT CONTENT PER AREA (1 TEST PIT PER 1000 SQ. FT.) SHALL BE REQUIRED ON A WELL-MOLD CONTOUR. IF SINGLE CONTAINS BELOW 10 FEET OF SOIL PROVIDE ADDITIONAL TEST PITS TO CONSIDER ADDITIONAL DEPTH OVER THE PROPOSED AREA. IF THE AVERAGE RATES EXCHANGE CAPACITY IS 12 MILLIGRAMS PER PER 100 GRAMS OR MORE, OR THE SOIL IS THE ORIGINAL CONTOUR OR MORE THAN 10% OF CONTAMINANTS THAT FOR STORMWATER INFILTRATION.
15. NO QUANTITIES HAVE BEEN CALCULATED TO DETERMINE VOLUMES OF EXCAVATION AND EMBANKMENT ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR DISPOSAL OF ALL EMBANKMENT AND/OR EXCAVATED MATERIALS.
16. EACH DRAINAGE POND SHALL BE SHAPED IN ACCORDANCE WITH THE APPROVED STREET AND DRAINAGE PLANS, SPECIFICATIONS, REQUIRED PERMITS BY THE REGULATORY AUTHORITY, AND ADOPTED BY THE SPOKANE COUNTY ENGINEER. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE ANY SUPPLEMENTAL WORK.

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SHAWNEE LN. (8+80.83 TO 16+50)	SHEET 3
SHAWNEE LN. (16+53 TO 21+08.11)	SHEET 4
HOWESDALE LN. (10+89.19 TO 19+41.27)	SHEET 5
LANE "A"	SHEET 6
LANE "B"	SHEET 7
POND DETAILS	SHEET 8
DRAINAGE CHANNEL & CULVERT	SHEET 8
ONSITE DRAINAGE	SHEET 10
ONSITE DRAINAGE	SHEET 11
BY-PASS CULVERT	SHEET 12
DEVELOPED SITE PLAN	SHEET A1

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1825
DATE ACCEPTED: 10-12-01
ACCEPTANCE EXPIRES: 10-12-02
PROJECT LANE MILES PUBLIC: 1.31
PROJECT LANE MILES PRIVATE: 0.31
CONSTRUCTION DOCUMENTATION AND SPECIFICATIONS REGIONAL DRAINAGE, TAX DISTRICT AND FEES MUST BE PAID PRIOR TO FINAL ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED. (509) 477-3600
NOTIFY PERMIT INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1825
DATE ACCEPTED: 10-12-01
ACCEPTANCE EXPIRES: 10-12-02
PROJECT LANE MILES PUBLIC: 1.31
PROJECT LANE MILES PRIVATE: 0.31
CONSTRUCTION DOCUMENTATION AND SPECIFICATIONS REGIONAL DRAINAGE, TAX DISTRICT AND FEES MUST BE PAID PRIOR TO FINAL ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED. (509) 477-3600
NOTIFY PERMIT INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 2/7/01

P1825-COV-1.TIF

P1825 Engineered Drawings

DATUM
BASED ON CITY DATUM, G.P.S. NO. 32
NO. CORNER OF ANNIVERSARY & SHAWNEE
NAD 83 / 1.27 FEET, CITY ELEVATION
1988 NGVD — 1.3 = NAVD 88 FEET = 1989.629

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
COVER
SPOKANE COUNTY, WASHINGTON

Sheet Title: STREET COVER

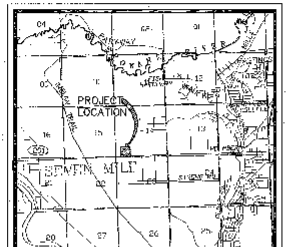
1 OF 12
Sheet Number

SHAWNEE CANYON ESTATES

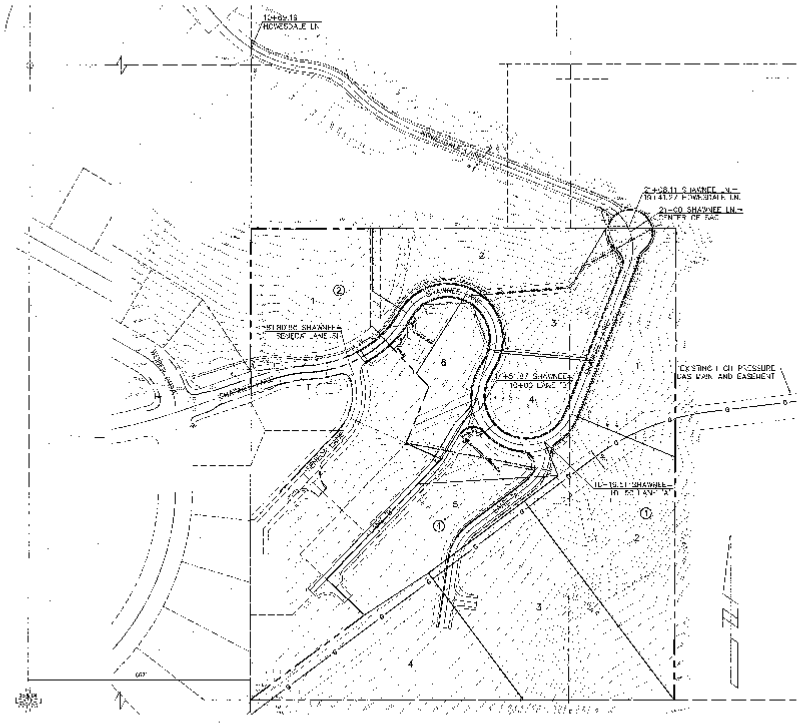
STREET AND DRAINAGE PLANS

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

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



VICINITY MAP



LEGEND

EXISTING	GENERAL	PROPOSED
	LOCKWAY CLINICH LN.	
	HOWESDALE LN.	
	PROPERTY LINE	
	EASEMENT LINE	
	CURB	
	PAVEMENT	
	PLAT BOUNDARY	
	STORM DRAINAGE	
	DRAINAGE LINE	
	BIOSWALE	
	CATCH BASIN	
	DITCH	
	SANITARY SEWER	
	MANHOLE CONC.	
	MANHOLE CL. WOOD	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
	FIRE HYDRANT	
	SERVICE	
	BLOWOFF	

ABBREVIATIONS

SAN	SANITARY SEWER
WM	WATER MAIN
MH	MAN-HOLE
EXIST	EXISTING
CO	SEWER CLEANOUT
HYD	HYDRANT
RT	RIGHT
LT	LEFT
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
POC	POINT OF COMPOUND CURVE
CT	COURT
RD	ROAD
LN	LANE
STA	STATION
STA L	STATION EQUATION
ACT L	ACTUAL LENGTH
G	GRADE
ELE	INVERT ELEVATION
RIM E	RIM ELEVATION
DIA	DIAMETER
SI	STREET INTERSECTION
BDY	BOUNDARY
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
TA	TOP OF ASPHALT
CL	CENTERLINE

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE DRAWINGS OR REASONABLY INFERRABLE THEREFROM, UNLESS OTHERWISE SPECIFICALLY NOTED OTHERWISE.
2. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1988", AND AS AMENDED.
3. THE CONTRACTOR IS REQUIRED TO PERFORM WORK CONSTRUCTION FROM ON SITE AT ALL TIMES, THE ABSENCE OF THE ENGINEER WILL RESULT IN AN IMMEDIATE SHUT DOWN OF WORK AND THE POSSIBLE REVOCATION OF STREET OPEN CONSTRUCTION PERMIT FOR PERMIT.
4. THE CONTRACTOR IS REQUIRED TO HAVE A DUPLICATE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE THEREFORE CONSTRUCTION IS A REQUIRED.
5. LOCATING OF EXISTING UTILITIES SHOWN ON THE PLANS AS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, ANY DAMAGE CAUSED BY THEIR FAILURE TO BE DETECTED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
6. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE NORTHWEST UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
7. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS UNCONTROLLABLE THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE SPOKAN COUNTY ENGINEER, WILSON DORAN @ 489-6000 OR 1 (1 SHALL PROVIDE REASONABLE SHALL CALL REPRESENTATIVE, BRUCE GRAHAM AT S.E. NORTHWEST @ 534 8711 AND THE SPOKANE COUNTY INSPECTOR AT 477-3604.
8. ON CONSIDERATION OF INSTALLING, WORKING, ALIGN, ADJUST, REPAIR, REMOVE AND OR MAINTAIN EQUIPMENT BETWEEN THE DRYWALL BOARD AND THE WORKING DRAWINGS AND BETWEEN THE SHEET DRAWINGS AND THE MASTER SCALE PER SPOKANE COUNTY STANDARD DETAIL R-6.
9. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT ALL EXISTING BUSHES AND TREES FROM SERIOUS DISTURBANCE WITH 3" BY METAL INC TO BE FABRIC MATERIAL, ALL ALIGNMENT AND OVERALL DURING THE CONSTRUCTION, AND REPAIRS IT IN PLACE UNTIL THE ESTABLISHMENT OF GROSS AND THE TREES HAVE BEEN MOVED AND CLEANED.
10. IN THE EVENT THAT THE OWNER OF PROPERTY ATTEMPTS TO ENTER A DRIVEWAY DITCH DRAIN, THE CONTRACTOR SHALL CLEAN THE DITCH, OR THE DITCH IS IN AREAS OF THE DEVELOPING ENGINEER.
11. ALL DRIVE CONSTRUCTION TO BE AS PER DETAILS OF ON THE DRIVE CONCRETE CAN AND SHALL FOLLOW AS SHOWN IN THE PLANS.
12. ALL CURB DROP INLETS ARE TO HAVE A 3" DEPRESSION PER FIGURE 48, PAGE 6 OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL GUTTER INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD PLAN R-6.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED SURFACE ADJACENT TO THE SITE. ALL SUCH DEBRIS ON PAVED SURFACE SHALL BE CLEANED. CLEANING SHALL BE ON AN AS REQUIRED BASIS USING WATER BROOM PLACEMENT. CLEANING AND REMOVAL SHALL BE DONE BY SWEEPER PRESSURE ALONE SHALL NOT BASE THE CONSTRUCTION DEBRIS FROM THE SITE.
14. ALL EXISTING 1 OH PRESSURE GAS MAIN AND EASEMENT, BOTH BOTH IN, FOR THE CONCRETE OF THE SERVICE AND THE DISTRIBUTION SYSTEM, ALL SHALL BE IN THE SAME OR ELEVATION OR ELEVATION OF THE SOIL IDENTIFIED IN THE PLACE OF THE PROPOSED SHALL BE A MINIMUM IN ALL SPACING MATERIALS, AND A MINIMUM INDICATORS SHALL BE DISPOSED OF THE UNDERGROUND SYSTEM WITHIN SIX (6) MONTHS. CONTRACTOR SHALL ALL OTHER STATES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEERING OFFICE PRIOR TO PLACING THE FINISHED LANDSCAPING AND PRIOR TO FINAL ACCEPTANCE. THE STATE OF CONTRACTOR IS ALL BE INSTALLED IN A MANNER SUCH THAT THE ACCESS VALVE OR DEVICE IS MINIMUM FLUCTUATION IN LEVEL OF THE ROAD SURFACE.
15. THE SPOKANE COUNTY ENGINEER REQUIRES SOIL TESTS UNDER AVERAGE POND DEPTHS ARE DETAILED BELOW AND PER SWC 3.3 TEST PITS FOR CATCH BASIN AND CANALS WITH DRAINAGE COVERLINE PLAN 300 E. THE AREA SHALL BE A COMPOSITE OF A WELL-MIXED COMPOSITE SAMPLE DOES BRING OF THE TOP SIX (6) INCHES OF SOIL FROM AT LEAST FOUR (4) CORES UNIFORMLY DISTRIBUTED OVER THE PERCOLATION AREA. IF THE AVERAGE CATION EXCHANGE CAPACITY IS 15 MILLIEQUIVALENTS PER 100 GRAME OR MORE, THE SOIL IS ACCEPTABLE FOR USE IN THE PERCOLATION AREA. IF SOIL IS CONSIDERED FOR STORMWATER TREATMENT.
16. NO QUANTITIES HAVE BEEN CALCULATED TO ESTIMATE COSTS OF EXCAVATION AND UNCLASSIFIED ON THIS PROJECT. NO COMPANY SHALL BE RESPONSIBLE FOR COST OF DISPOSAL OF ALL UNCLASSIFIED OR UNCLASSIFIED MATERIALS.
17. EACH DRAINAGE POND SHALL BE EMPTY IN ACCORDANCE WITH THE APPROVED STREET AND DRAINAGE PLANS SHALL BE TAKEN AS ACTUALLY OF THE NATURAL SOIL AND ACCEPTED BY THE SPOKANE COUNTY ENGINEERING DEPARTMENT PRIOR TO ACCEPTING ANY STORMWATER RUNOFF.

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INTERSECTION AND STREET DETAILS	SHEET 2
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SHAWNEE LN. (16+50 TO 21+08.11)	SHEET 4
HOWESDALE LN. (10+69.19 TO 19+41.27)	SHEET 5
LANE 'A'	SHEET 6
LANE 'B'	SHEET 7
POND DETAILS	SHEET 8
DRAINAGE CHANNEL & CULVERT	SHEET 9
ONSITE DRAINAGE	SHEET 10
ONSITE DRAINAGE	SHEET 11
BY-PASS CULVERT	SHEET 12
DEVELOPED SITE PLAN	SHEET A1

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

SPOKANE COUNTY ENGINEERS OFFICE
ORIGINAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED 04-13-01
ACCEPTANCE EXPIRES 04-13-03
PROJECT LANE MILES PUBLIC 1
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION PLANS MUST BE ON SITE AND CERTIFIED BEFORE DRAWINGS, VACATED AND RECEIVED PRIOR TO COUNTY ACCEPTANCE AND ENGINEERING OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 48 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL

2/16/01
DATE

P-1825 Eng-Road & Drainage

DATUM
BASED ON RLTY DATUM, CAL.M. NO. 32.
NOTE: BENCHMARK AT SHAWNEE & SHAWNEE
10 FT NNE AT 1.5' SPC CITY ELEVATION
1996.072 -- 3.13 -- ROAD RB ELEV = 1081.845

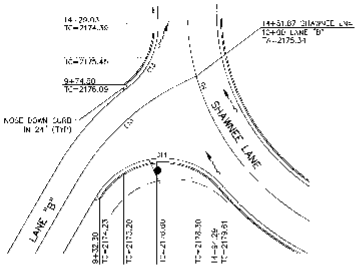
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
COVER
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET
COVER

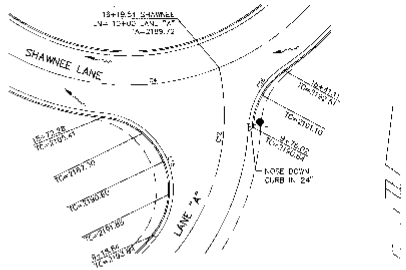
1 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE CALL NUMBER
456-6000



INTERSECTION DETAIL
SCALE: 1" = 20'
1



INTERSECTION DETAIL
SCALE: 1" = 20'
2

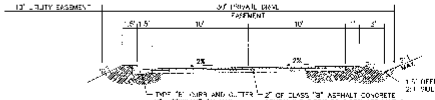
CURVE TABLE

CURVE	RADIUS	LENGTH	ANGLE	TANGENT	DELTA
C4	100.00	57.60	1576.36	29.73	164°37'35"
C12	132.00	52.10	33.73	26.55	22°17'24"
C12	80.00	73.02	52.68	37.49	55°26'22"
C13	30.00	24.05	15.24	12.84	45°53'06"
C14	30.00	37.47	42.45	19.68	128°45'14"
C15	30.00	64.31	56.39	32.57	142°08'24"
C16	20.00	27.14	14.85	23.77	82°56'19"

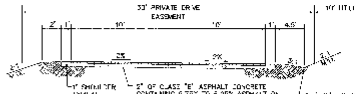
RIP-RAP CHANNEL STABILIZATION

STREET	STATION		THICKNESS MIN. (in)	STONE SIZE MIN. (in)	STONE SIZE MAX (in)
SHAWNEE	12+00	TO 13+25	12	1	5
SHAWNEE	10+50	TO 22+31			
LANE "B"	12+90	TO 8+00			
HOWESDALE	14+72	TO 15+20			
SHAWNEE	14+00	TO 12+00	18	3	8

Under overlay: 1" OSSC per WSDOT Standard Specifications over Amoco 2043 Geotextile Fabric



TYPICAL ROADWAY SECTION, LANE 'A'
NOT TO SCALE
E

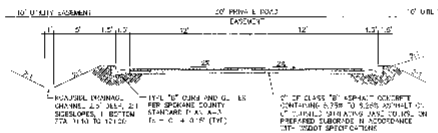


TYPICAL ROADWAY SECTION, LANE 'B'
NOT TO SCALE
F

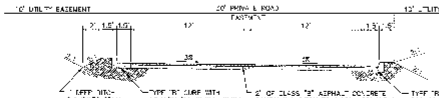
NOTE:
ULTIMATE SECTION (FUTURE) TO INCLUDE 2" CLASS "B" ASPHALT. ~OVERLAY PROFILE (SHEET 5) SHOWS TOP OF FUTURE FINISHED GRADE

TYPICAL ROADWAY SECTION, HOWESDALE LANE
NOT TO SCALE
STA 10+69.19 TO STA 19+41.27
G

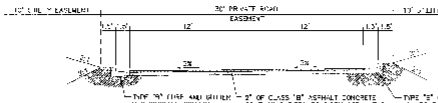
NOTE:
ROADWAY SECTION TRANSITIONS, SHAWNEE LANE:
STA 9+75 TO STA 10+50 &
STA 13+25 TO STA 14+00 &
STA 17+00 TO STA 17+50



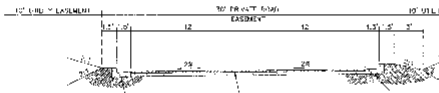
TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 9+67.98 TO STA 9+75
A



TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 10+50 TO STA 13+25
B



TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 14+00 TO STA 17+00
C



TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 15+41.27 TO STA 20+50
D

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-12-01
DATE ACCEPTED: 2-12-01
ACCEPTANCE EXPIRES: 02-12-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
CONSTRUCTION MUST COMMENCE WITHIN 180 DAYS FROM ACCEPTANCE AND BE PERFORMED IN ACCORDANCE WITH COUNTY ACCEPTANCE AND APPROVAL BY OWNER OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT RECEIVED: (509) 477-3690
NOTIFY PERMIT OFFICER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-12-01
DATE ACCEPTED: 2-12-01
ACCEPTANCE EXPIRES: 02-12-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
CONSTRUCTION MUST COMMENCE WITHIN 180 DAYS FROM ACCEPTANCE AND BE PERFORMED IN ACCORDANCE WITH WSDOT SPECIFICATIONS.
PERMIT RECEIVED: (509) 477-3690
NOTIFY PERMIT OFFICER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-12-01
DATE ACCEPTED: 2-12-01
ACCEPTANCE EXPIRES: 02-12-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
CONSTRUCTION MUST COMMENCE WITHIN 180 DAYS FROM ACCEPTANCE AND BE PERFORMED IN ACCORDANCE WITH WSDOT SPECIFICATIONS.
PERMIT RECEIVED: (509) 477-3690
NOTIFY PERMIT OFFICER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DATUM
ASPHALT AT CITY MONUMENT NO. 37
BETWEEN "A" AVENUE AND "B" AVENUE
ON "A" AVENUE, 30' EAST OF
CENTERLINE, 18' SOUTH OF
CURB
ELEV = 1877.0842

DEVELOPER'S APPROVAL
9/7/01
DATE

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. GOODA, P.E.
WASHINGTON REGISTRATION
NO. 31491
FOR AND ON BEHALF OF
OLD ASSOCIATES, INC.

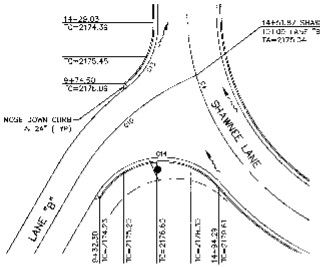
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
DETAILS
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET DETAILS

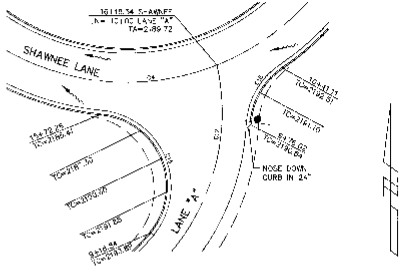
2 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

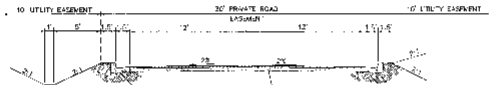


INTERSECTION DETAIL
SCALE: 1" = 20'
1



INTERSECTION DETAIL
SCALE: 1" = 20'
2

NOTE:
ROADWAY SECTION TRANSITIONS, SHAWNEE LANE:
STA 9+75 TO STA 10+50 &
STA 13+25 TO STA 14+00 &
STA 17+00 TO STA 17+50



TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 9+37.98 TO STA 9+75
A

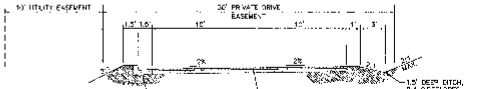
CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	300.00	298.82	162.83	286.39	56°31'46"
C10	164.00	63.10	31.91	62.68	22°04'14"
C12	30.00	103.00	77.08	57.48	196°35'03"
C13	30.00	25.38	15.32	24.66	48°26'08"
C14	30.00	27.17	14.65	26.26	51°51'14"
C15	30.00	84.94	56.30	50.47	162°18'33"
C16	30.00	27.74	14.95	26.77	52°58'16"

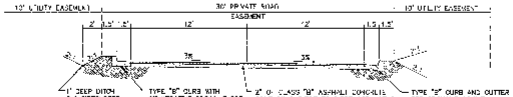
RIP-RAP CHANNEL STABILIZATION

STREET	STATION		STATION	THICKNESS MIN. (in)	STONE SIZE MIN. (in)	STONE SIZE MAX (in)
SHAWNEE	10+50	TO	13+25	12	-	6
SHAWNEE	16+50	TO	20+50			
LANE "B"	50+50	TO	54+00			
HOWESDALE	10+70	TO	12+00			
SHAWNEE	14+00	TO	17+00	15	3	15

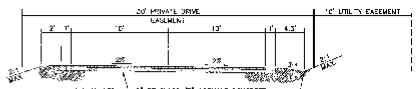
Underlayment: 6" SSBG per WSDOT Standard Specifications over Amoco 4545 Geotextile Fabric



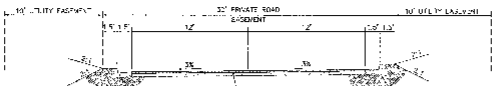
TYPICAL ROADWAY SECTION, LANE "A"
NOT TO SCALE
E



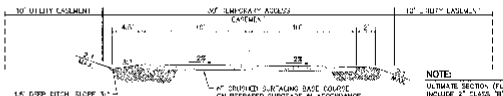
TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 10+50 TO STA 13+25
B



TYPICAL ROADWAY SECTION, LANE "B"
NOT TO SCALE
F

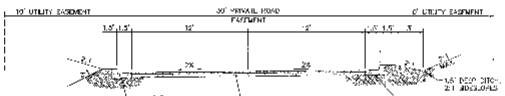


TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 14+00 TO STA 17+00
C



NOTE:
ULTIMATE SECTION (FUTURE) TO INCLUDE 2" CLASS "B" ASPHALT. HOWESDALE PROFILE (SHEET 7) SHOWS "TOP OF FUTURE PAVEMENT" GRADE

TYPICAL ROADWAY SECTION, HOWESDALE LANE
NOT TO SCALE
STA 10+86.19 TO STA 10+47.27
G



TYPICAL ROADWAY SECTION, SHAWNEE LANE
NOT TO SCALE
STA 17+00 TO STA 17+50
D

DATUM
BASIS OF CITY DATUM, DRAW NO. 10-
N.E. CORNER ARROW-FAIR & SHAWNEE
19.7' NAD & 1.0' FEC
CITY ELEV. 996.972 - 13.13' = NAVD88
ELEV = 1987.84E

EXPIRES 9/30/2003

SPOKANE COUNTY ENGINEERING DEPT.
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED: 9-12-01
ACCEPTANCE EXPIRES: 9-12-03
PROJECT LANE MILES PUBLIC: 0.7
PROJECT LANE MILES PRIVATE: 0.7
CONSTRUCTION SHALL NOT BEGIN UNTIL PERMIT IS ISSUED AND RECORD DRAWING HAS BEEN SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADWAY AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED (509) 477-3600
NOTIFY INSPECTOR 48 HRS IN ADVANCE PRIOR TO CONSTRUCTION

SPOKANE COUNTY ENGINEERING DEPT.
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED: 9-12-01
ACCEPTANCE EXPIRES: 9-12-03
PROJECT LANE MILES PUBLIC: 0.7
PROJECT LANE MILES PRIVATE: 0.7
CONSTRUCTION SHALL NOT BEGIN UNTIL PERMIT IS ISSUED AND RECORD DRAWING HAS BEEN SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADWAY AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED (509) 477-3600
NOTIFY INSPECTOR 48 HRS IN ADVANCE PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL
9/12/01
DATE

P1825-DT-2-TIF

P1825 Eng Rec'd Drawing

Assoc. Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. CORDIL, P.E.
WASHINGTON REGISTRATION
NO. 37461
FOR AND ON BEHALF OF
GLS ASSOCIATES, INC.

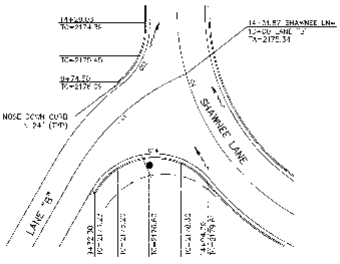
1	9/12/01
2	9/12/01
3	9/12/01
4	9/12/01
5	9/12/01

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
DETAILS
SPOKANE COUNTY, WASHINGTON

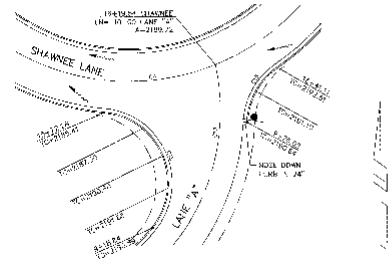
Sheet Title
STREET DETAILS

2 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL (1)
SCALE: 1" = 20'



INTERSECTION DETAIL (2)
SCALE: 1" = 20'

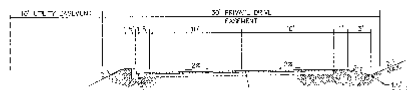
CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	100.00	314.16	100.00	200.00	180°00'00"
C12	100.00	65.10	33.75	63.95	37°29'04"
C13	300.00	135.37	69.08	87.48	25°51'00"
C14	300.00	23.49	11.80	23.49	00°45'01"
C14	30.00	47.47	42.66	42.68	90°45'01"
C15	30.00	94.80	30.08	52.37	180°00'00"
C16	30.00	94.80	30.08	52.37	180°00'00"

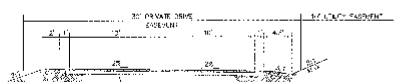
RIP-RAP CHANNEL STABILIZATION

STREET	STATION		STATION	THICKNESS MIN. (in)	STONE SIZE MIN. (in)	MAX. (in)
SHAWNEE	12+00	TO	14+00	12	1	6
LANE "A"	10+00	TO	12+00			
LANE "B"	14+00	TO	16+00			
HOWESDALE	12+00	TO	14+00			
SHAWNEE	9+00	TO	12+00	18	2	18

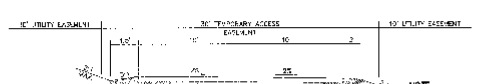
(Footnotes: 1. Stone per WSDOT Standard Specifications
over Annex 4545 Geotextile Fabric)



TYPICAL ROADWAY SECTION, LANE 'A' (E)
NOT TO SCALE



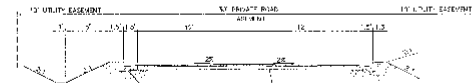
TYPICAL ROADWAY SECTION, LANE 'B' (F)
NOT TO SCALE



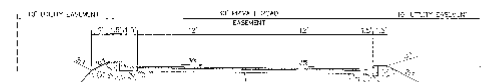
NOTE:
1) SHAFT SECTION (BURIED) DO INCLUDE 2" CLASS "B" ASPHALT. HOWESDALE PROFILE (SHEET 5) SHOWS TOP OF FUTURE FINISHED GRADE.

TYPICAL ROADWAY SECTION, HOWESDALE LANE (G)
NOT TO SCALE STA 10+00.0 TO STA 14+41.27

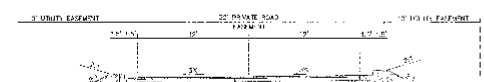
NOTE:
ROADWAY SECTION TRANS. OVS. SHAWNEE LANE
STA 8+25 TO STA 10+00 &
STA 13+25 TO STA 14+00 &
STA 17+00 TO STA 17+30



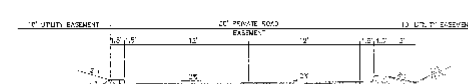
TYPICAL ROADWAY SECTION, SHAWNEE LANE (A)
NOT TO SCALE STA 9+00.25 TO STA 9+41.72



TYPICAL ROADWAY SECTION, SHAWNEE LANE (B)
NOT TO SCALE STA 10+00 TO STA 13+25



TYPICAL ROADWAY SECTION, SHAWNEE LANE (C)
NOT TO SCALE STA 14+00 TO STA 17+00



TYPICAL ROADWAY SECTION, SHAWNEE LANE (D)
NOT TO SCALE

DATUM
BASED ON CITY DATUM. CALC NO. 32.
N.P. COORD = 469824.40 N 2-3024.
19.7' NVD & 1.2' [illegible]
C.O. ELEV. 1966.877 [illegible] = NAVD88
ELEV = 983.842

SPOKANE COUNTY ENGINEER CERTIFIED
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 04-[illegible]
DATE ACCEPTED: 04-[illegible]
ACCEPTANCE EXPIRES: 04-12-03
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.27
[illegible]

DEVELOPER'S APPROVAL — DATE 9/7/04

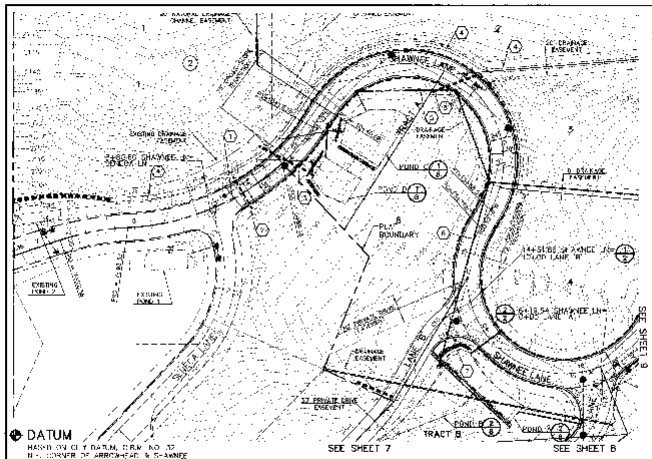
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
DETAILS
SPOKANE COUNTY, WASHINGTON

Sheet Title: STREET DETAILS

2 OF 12
Sheet Number

P.1835 Eng. Book & Drawing

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. STA 9+37.68, CONTOUR EXISTING ASPHALT, TACK COAT (ONE PASS) TO TAKING
2. STA 9+37.68 RT, CONCRETE HEADWALL FOR EXISTING 21" CMP CULVERT. SEE DETAIL 3, SHEET 8.
3. REMOVE EXISTING CULVERT PIPES.
4. DRAINAGE CHANNEL. SEE SHEET 3 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
5. ONSITE STORM SYSTEM. SEE SHEET 6 FOR PLAN, PROFILE AND CONSTRUCTION NOTES.
6. TRACT A OVERFLOW. SEE SHEET 11 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
7. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN A-8

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	250.00	176.63	91.71	172.93	40°47'43"
C2	130.53	48.57	24.44	48.43	14°59'16"
C3	100.00	109.95	59.40	104.41	63°00'34"
C4	125.00	220.80	210.93	199.09	101°12'25"
C10	125.00	61.10	31.26	60.50	28°00'22"
C12	125.00	105.50	57.49	97.46	48°21'05"
C13	30.00	29.09	15.90	27.96	55°33'32"
C14	30.00	52.47	45.98	46.06	100°16'14"
C15	30.00	44.04	36.78	39.87	83°58'31"
C16	30.00	27.74	14.95	26.77	52°59'19"

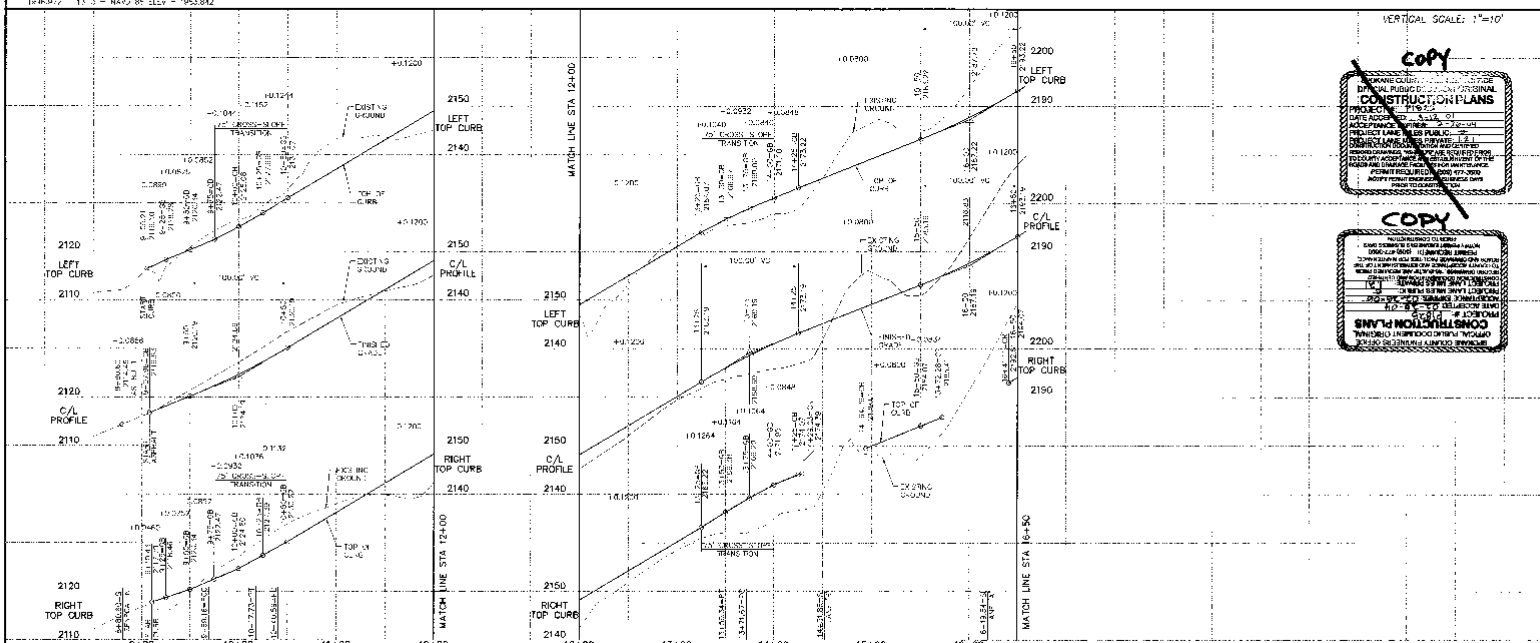
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 INCH = 50 FT.

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT NAME
DATE ACCEPTED
ACCEPTANCE NUMBER
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
PERMIT REQUIRED FOR ANY WORK IN RIGHT OF WAY
NOTIFY STORM ENGINEER (509) 477-3600 PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 9/7/01

VERTICAL SCALE: 1"=10'



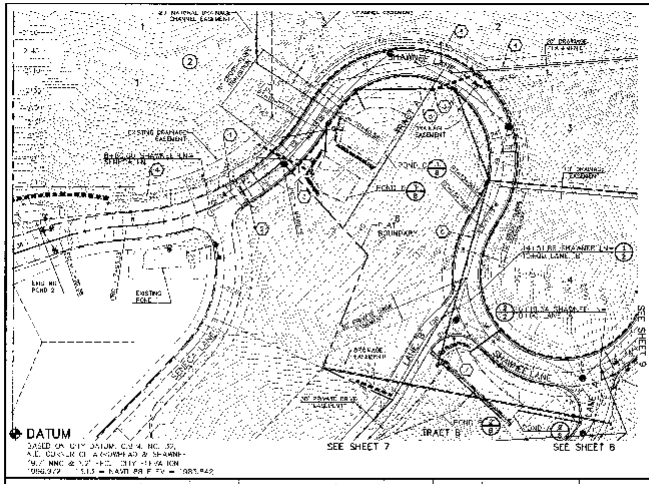
COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PERMIT REQUIRED FOR ANY WORK IN RIGHT OF WAY
NOTIFY STORM ENGINEER (509) 477-3600 PRIOR TO CONSTRUCTION

COPY
CONSTRUCTION PLANS
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 8+80.60 TO STA 16+50
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

Sheet Number



SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. STA 9+07.38, SAWCUT EXISTING ASPHALT. TACK COAT EDGE PRIOR TO PAVING.
2. STA 4+18.40, RT. CONCRETE HEADWALL FOR EXISTING 24" CMP CULVERT. SEE DETAIL 3, SHEET 8.
3. REMOVE EXISTING CULVERT PIPES.
4. DRAINAGE CHANNEL. SEE SHEET 9 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
5. ONSITE STORM SYSTEM. SEE SHEET 10 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
6. TRACT A OVERFLOW. SEE DETAIL 11 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
7. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN 4.8.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	230.00	173.82	91.33	169.73	43°17'40"
C2	50.33	46.57	24.41	45.43	53°00'16"
C3	110.00	208.80	176.47	179.98	107°00'00"
C4	100.00	329.80	1278.36	199.08	185°50'00"
C5	100.00	65.10	33.73	63.95	37°33'03"
C6	100.00	103.07	57.08	97.46	60°01'28"
C13	30.00	26.19	15.06	25.36	50°00'00"
C14	30.00	37.47	40.61	48.05	107°01'14"
C15	30.00	54.81	56.30	52.07	156°58'33"
C16	30.00	27.74	14.95	26.77	52°58'16"

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

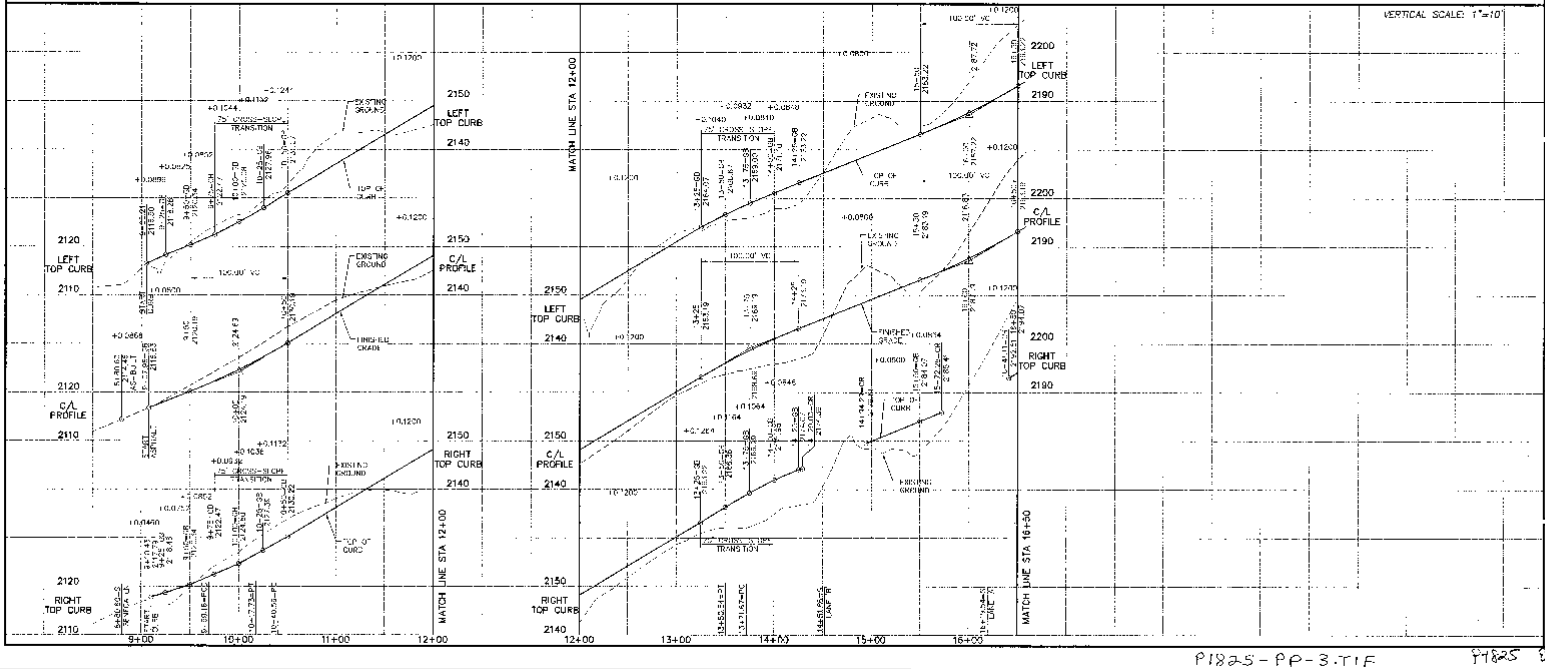
GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 3-15-01
ACCEPTANCE EXPIRES: 3-15-04
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.31
PRIOR TO CONSTRUCTION, PERMITS ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE PUBLIC ROAD SYSTEM FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NORTH PORTE BRIDGE PERMIT REQUIRED
PUBLIC CONSTRUCTION

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 04-19-05
ACCEPTANCE EXPIRES: 4-19-07
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.31
PRIOR TO CONSTRUCTION, PERMITS ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE PUBLIC ROAD SYSTEM FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NORTH PORTE BRIDGE PERMIT REQUIRED
PUBLIC CONSTRUCTION

DEVELOPER'S APPROVAL — DATE

VERTICAL SCALE: 1"=10'



Jacobs, Inc.
Planning
Engineering
Environmental
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
WILSON W. GORDN, P.E.
WASHINGTON REGISTRATION
NO. 37481
FOR AND ON BEHALF OF
GLC ASSOCIATES, INC.

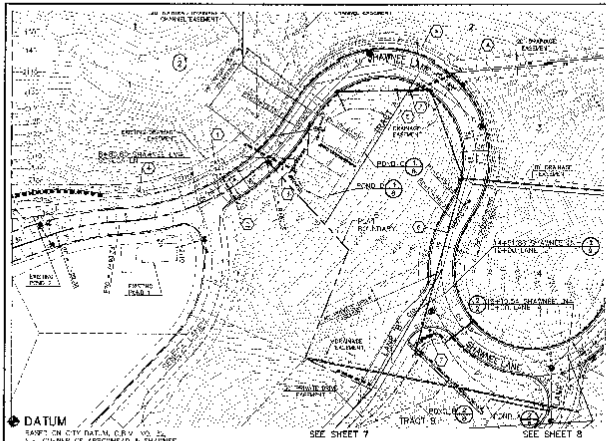
Drawn By:	GLC, INC.
Checked By:	
Approved By:	

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 9+80.60 TO STA 16+50
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

3 OF 12
Sheet Number

P1825-PP-3.TIF P1825 Engineered Drainage



SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. STA 9+37.95, SAWCUT EXISTING ASPHALT. TAPER OUT EDGE PRIOR TO PAVING.
2. STA 9+80.60, R.X. CONCRETE HEADWALL FOR EXISTING 24" CMP CULVERT. SEE DETAIL 3, SHEET 8.
3. REMOVE EXISTING CULVERT PIPES.
4. DRAINAGE CHANNEL. SEE SHEET 6 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
5. SEPTIC SYSTEM SYSTEM. SEE SHEET 12 FOR PLAN, PROFILE, AND SEWER CONSTRUCTION NOTES.
6. DRAFT A-PROFILER. SEE SHEET 11 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
7. "STREET NAME" SEE PER SPOKANE COUNTY STANDARD PLAN 3-6.

CURVE TABLE

CURVE	RADIUS	LENGTH	ARC LN	DELTA	DELTA
C1	200.00	179.83	91.51	72.71	49°27'49"
C2	32.33	48.67	34.41	48.43	143°26'15"
C3	50.33	379.56	47.41	359.86	173°30'51"
C4	50.33	179.82	126.32	98.33	199°07'24"
C5	50.33	69.97	53.97	63.82	80°33'00"
C6	33.33	103.00	27.03	79.48	309°00'00"
C7	50.00	50.68	19.80	57.04	58°03'00"
C8	50.00	67.47	42.65	48.09	92°42'54"
C9	50.00	91.50	38.30	62.87	126°56'33"
C10	50.00	27.74	14.95	26.77	31°50'14"

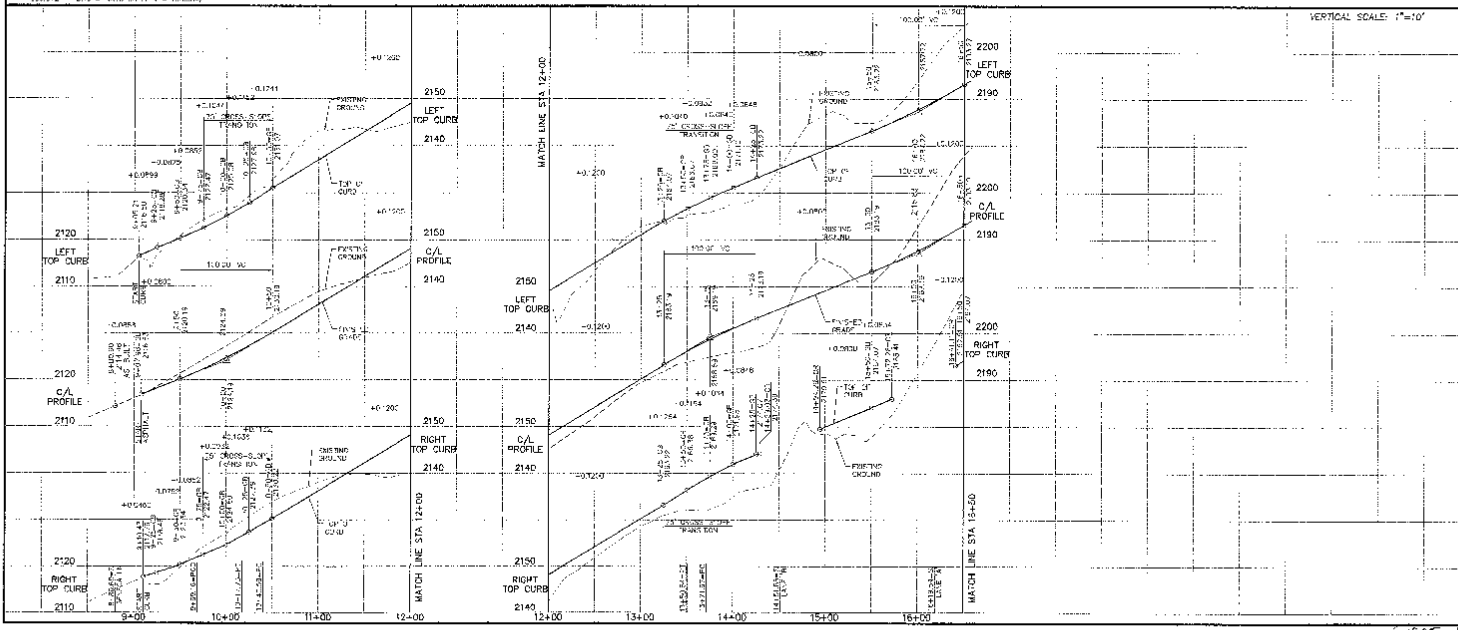
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 7825
DATE ACCEPTED: 8-13-08
ACCEPTANCE EXPIRES: 2-13-09
PROJECT LANE MILES PUBLIC: 0.47
PROJECT LANE MILES PRIVATE: 0.21
PERMIT REQUIRED: (509) 477-3700
M.S.P. Office Use Only

DEVELOPER'S APPROVAL — DATE 9/26/08

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. GORCH, P.E.
WASHINGTON REGISTRATION
NO. 34400
FOR AND ON BEHALF OF
GLC ASSOCIATES, INC.

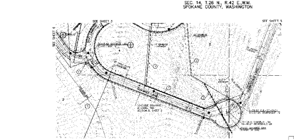


STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 8+80.60 TO STA 16+50
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

7825 Roadway + Drainage

SEC. 14, T.26 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON



DATUM

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

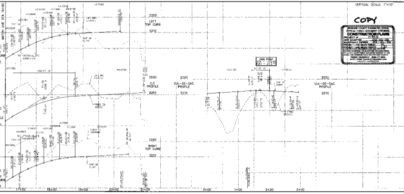
1. ONSITE STORM SYSTEM. SEE SHEET [illegible] FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
2. DRAINAGE CHANNEL. SEE SHEET [illegible] FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
3. [illegible] CULVERT WITH CONCRETE HEADWALL PER DETAIL [illegible]
4. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD [illegible]

COPY

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	150.00	[illegible]	[illegible]	[illegible]	[illegible]
C5	120.00	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DEVELOPER'S APPROVAL — DATE



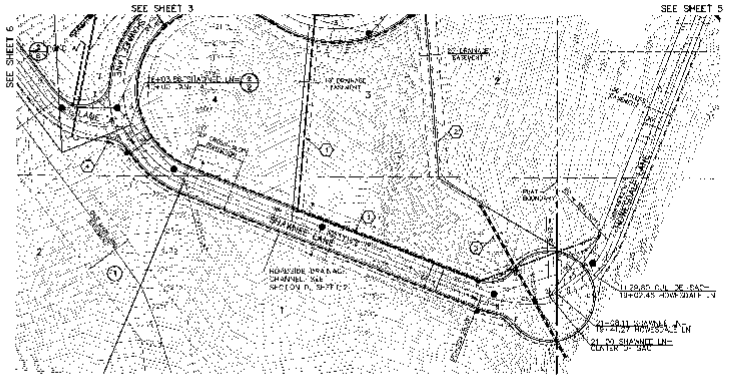
COPY

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 16+50 TO STA 21+08.11
SPOKANE COUNTY, WASHINGTON

STREET PLAN AND PROFILE

4 OF 12

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. ONSITE STORM SYSTEM. SEE SHEET 13 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
2. DIVERSION CHANNEL. SEE SHEET 9 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
3. 100 L.F. OF 30" CMP OUTFALL WITH CONCRETE headwall PER DETAIL 3, SHEET 8.
   IE(INV)=2070.0, STA 20+95.60, 84.7' RT.
   IE(INV)=2076.0, STA 15+93.50, 86.7' LT.
   S=0.1444
4. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN A-1.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C4	130.00	328.61	1278.38	188.29	145°57'34"
C5	100.00	157.10	100.00	141.41	90°00'00"
C12	60.00	103.02	57.98	87.42	98°36'03"
C15	30.00	84.91	98.36	123.7	126°36'54"
C16	20.00	27.74	16.25	26.77	79°13'15"

DATUM

BASED ON CITY DATUM, [illegible] NAD 83
N.E. CORNER OF ARGONNE LAND & SHAWNEE
N.77 NAD & 1/2 [illegible] CITY ELEVATION
[illegible] = 1213 = NAVD 88 [illegible] = [illegible] 842

DEVELOPER'S APPROVAL

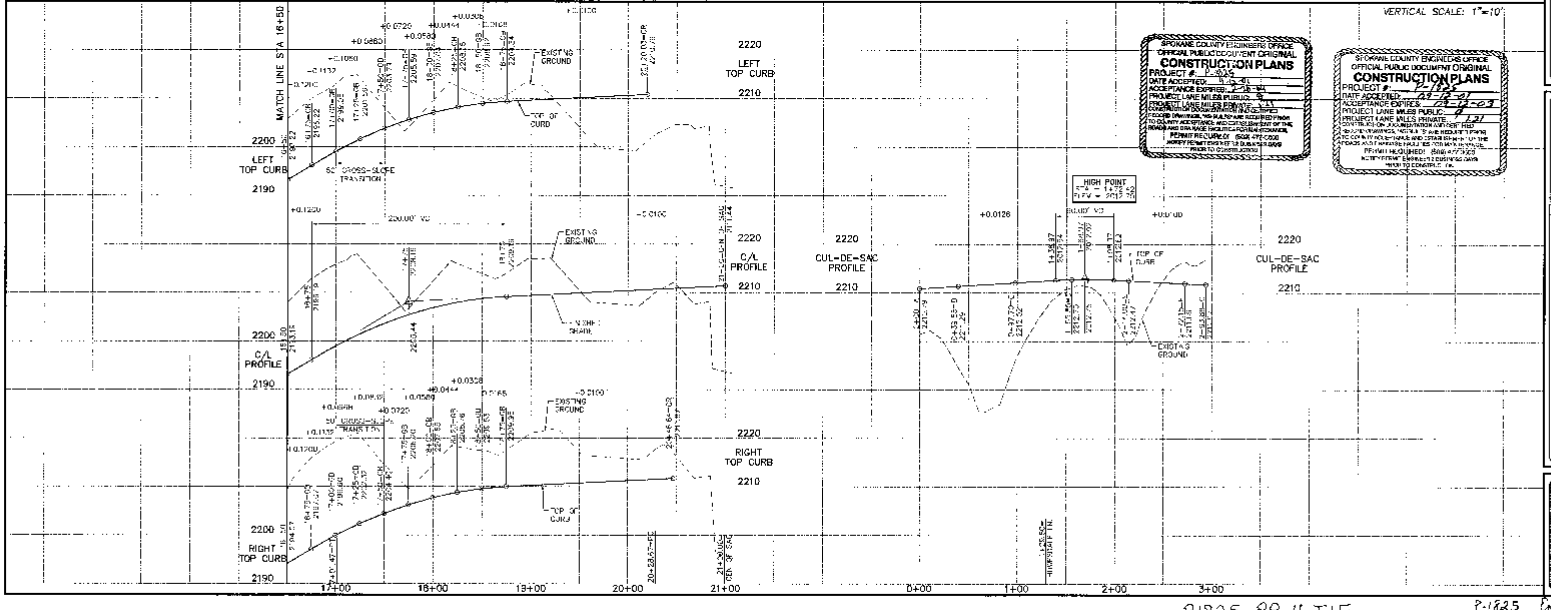
9/12/01
DATE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
0 20 40 100
(IN FEET)
1 inch = 40 ft.

PREPARED UNDER THE DIRECT SUPERVISION OF NELSON W. GORES, P.E. WASHINGTON REGISTRATION NO. 37481 FOR AND ON BEHALF OF CLS ASSOCIATES, INC.

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-8325
DATE ACCEPTED 9-5-01
ACCEPTANCE EXPIRES 9-5-02
PROJECT LANE MILES PUBLIC 0.31
PROJECT LANE MILES PRIVATE 0.31
PERMIT REQUIRED (509) 477-3600
PRIOR TO CONSTRUCTION

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED 11-13-03
ACCEPTANCE EXPIRES 11-13-04
PROJECT LANE MILES PUBLIC 0.31
PROJECT LANE MILES PRIVATE 0.31
PERMIT REQUIRED (509) 477-3600
PRIOR TO CONSTRUCTION

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 16+50 TO STA 21+08.11
SPOKANE COUNTY, WASHINGTON

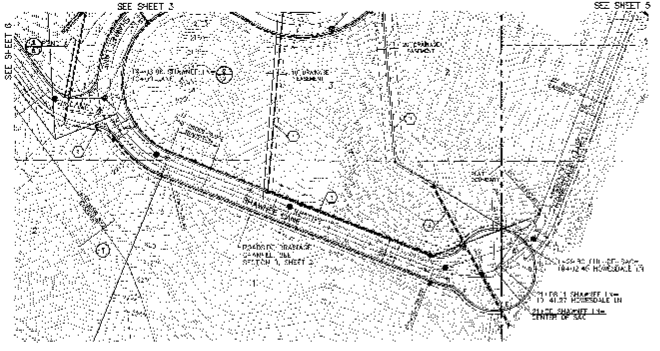
Sheet Title
STREET PLAN AND PROFILE

4 OF 12
Sheet Number

P1825-PP-4.TIF

P-1825 Eng. Red Drawing

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



DATUM
BASED ON CITY DATUM, G.B.N. NO. 32,
N.T. CORNER OF AIRPORTER & SHAWNEE
[illegible]

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

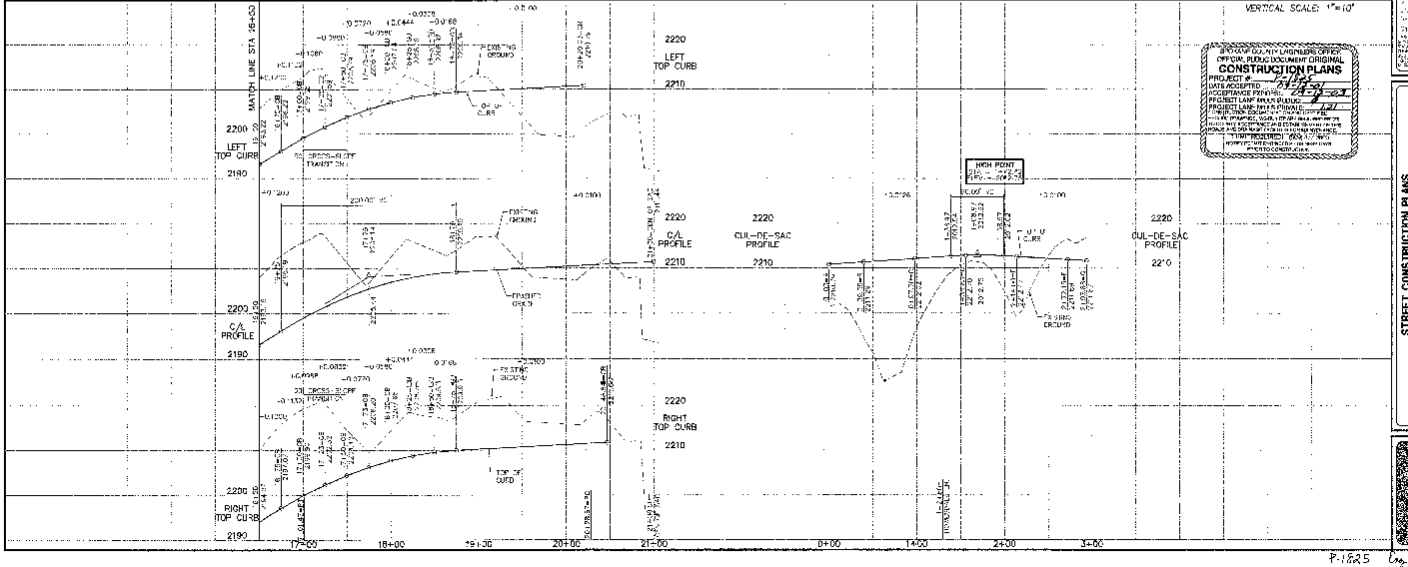
1. ONSITE STORM SYSTEM - SEE SHEET 10 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
2. DRAINAGE CHANNEL - SEE SHEET 9 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
3. [illegible] CONCRETE HEADWALL PER DETAIL 1, SHEET 8
4. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN [illegible]

CURVE TABLE

CURVE	RADIUS	TANGENT	LENGTH	DELTA
C1	[illegible]	[illegible]	[illegible]	[illegible]
C2	[illegible]	[illegible]	[illegible]	[illegible]
C3	[illegible]	[illegible]	[illegible]	[illegible]
C4	[illegible]	[illegible]	[illegible]	[illegible]
C5	[illegible]	[illegible]	[illegible]	[illegible]
C6	[illegible]	[illegible]	[illegible]	[illegible]

DEVELOPER'S APPROVAL — DATE 9/17/01

VERTICAL SCALE: 1" = 10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # [illegible]
DATE ACCEPTED [illegible]
ACCEPTANCE EXPIRES [illegible]
PROJECT LANE MILES [illegible]
PROJECT LANE MILES [illegible]
[illegible]

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
256-8000

GRAPHIC SCALE
1 INCH = 50 FT.

PREPARED UNDER THE DIRECT SUPERVISION OF
HOWARD W. CORTIN, P.E.
WASHINGTON REGISTRATION
NO. 27401
FOR AND ON BEHALF OF
C.O. ANDERSON, INC.

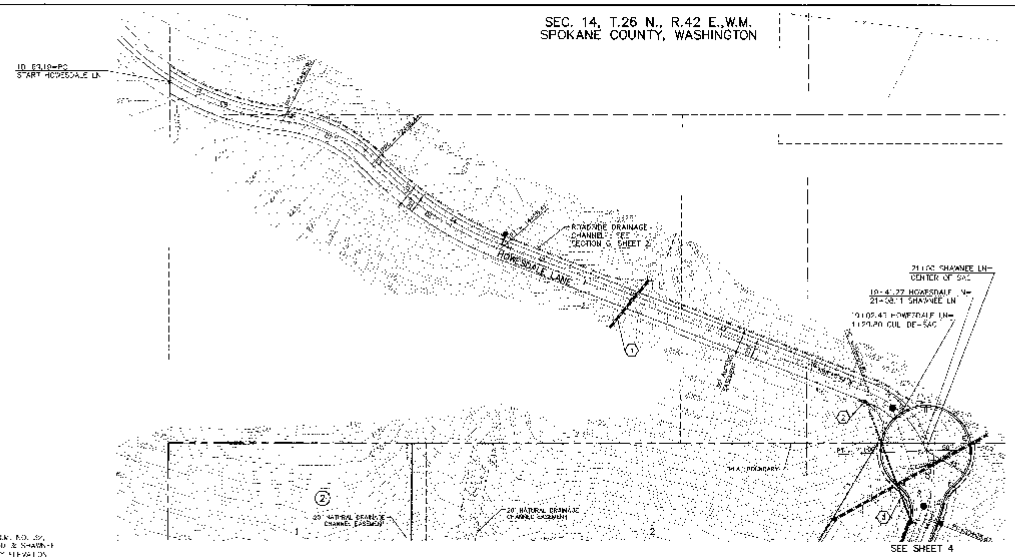
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
SHAWNEE LANE STA 16+50 TO STA 21+08.11
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

4 OF 12
Sheet Number

P-1825 Eng. Ford + Discovery

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



DATUM

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. 63 L.F. 3' 10" - DIA. CULVERT W/ CONCRETE HEADWALL PER DETAIL 3, SHEET 6. INVEL=2240.0 S=0.1000
2. STA 18 A1/C1, RT 10'RP - CATCH BASIN (F-1184)
3. DRAIN STORM SYSTEM. SEE SHEET 10 FOR PLAN, PROFILE AND CONSTRUCTION NOTES.

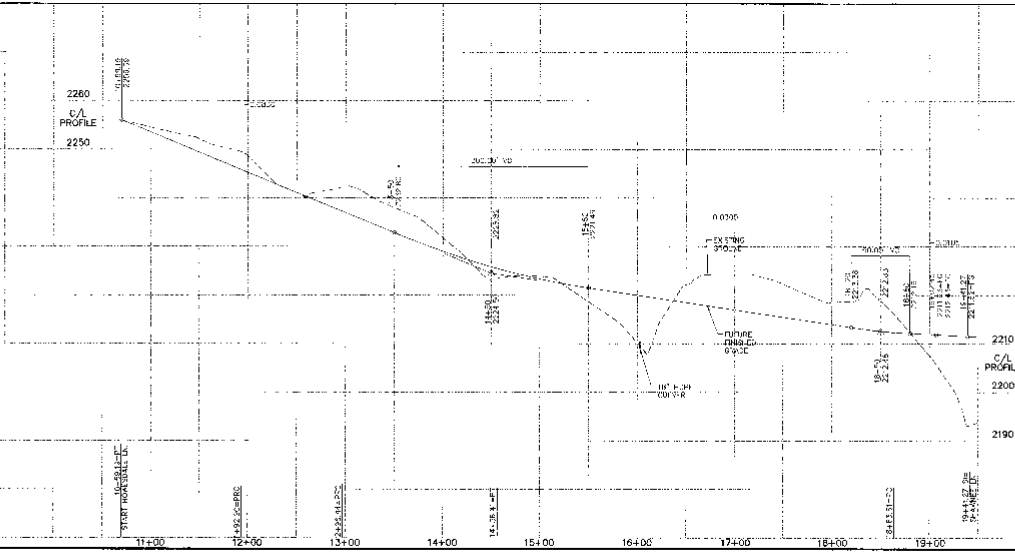
CURVE TABLE

CURVE	RADIUS	LENGTH	ARC/CHORD	DELTA	BEARING
C1	100.00	157.11	141.42	90°00'00"	N 70°41'27"
C2	307.50	153.37	151.74	28°34'00"	N 25°40'00"
C3	250.00	103.54	102.82	23°43'00"	N 25°40'00"
C4	275.00	165.71	163.19	34°31'00"	N 25°40'00"

DEVELOPER'S APPROVAL

DATE

VERTICAL SCALE: 1"=10'



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 7.1825
DATE ACCEPTED 02-25-04
ACCEPTANCE EXPIRES 02-25-05
PROJECT LANE MILES PUBLIC 1.31
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION COMPLETION AND CERTIFICATE OF COMPLIANCE, AS-BUILT PLANS REQUIRED PRIOR TO COUNTY ACCEPTANCE AND RELEASE BONDS FOR THE ROADWAY AND DRAINAGE FACILITIES MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 7.1825
DATE ACCEPTED 02-25-04
ACCEPTANCE EXPIRES 02-25-05
PROJECT LANE MILES PUBLIC 1.31
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION COMPLETION AND CERTIFICATE OF COMPLIANCE, AS-BUILT PLANS REQUIRED PRIOR TO COUNTY ACCEPTANCE AND RELEASE BONDS FOR THE ROADWAY AND DRAINAGE FACILITIES MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 7.1825
DATE ACCEPTED 02-25-04
ACCEPTANCE EXPIRES 02-25-05
PROJECT LANE MILES PUBLIC 1.31
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION COMPLETION AND CERTIFICATE OF COMPLIANCE, AS-BUILT PLANS REQUIRED PRIOR TO COUNTY ACCEPTANCE AND RELEASE BONDS FOR THE ROADWAY AND DRAINAGE FACILITIES MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS DAYS PRIOR TO CONSTRUCTION

Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

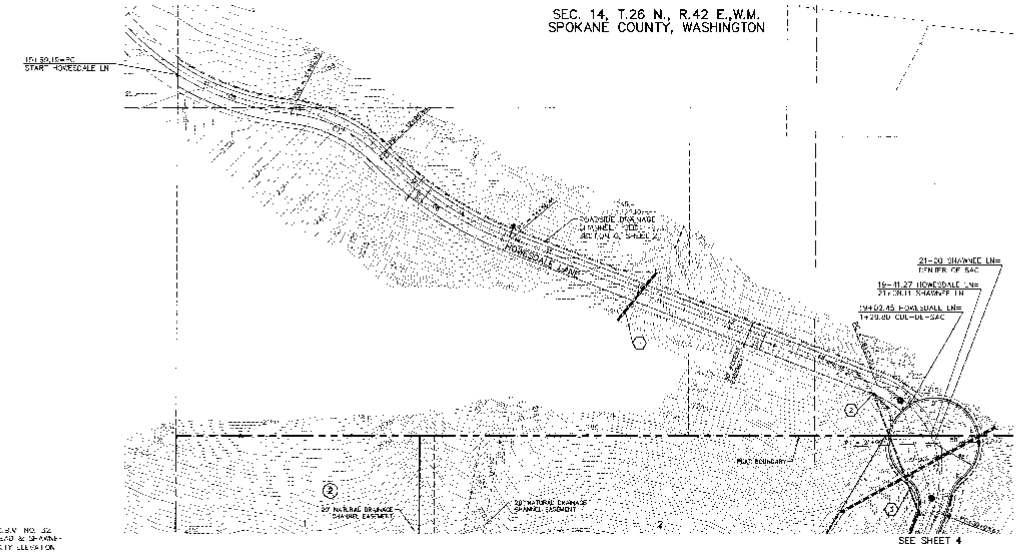
PREPARED UNDER THE DIRECT SUPERVISION OF
MELISSA W. DURKEL, P.E.
WASHINGTON REGISTRATION
NO. 29481
FOR AND ON BEHALF OF
GLE ASSOCIATES, INC.

DATE	DESCRIPTION
02/25/04	FINAL REVISION
06/24/03	FINAL CONSTRUCTION DRAWING

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
HOWESDALE LN STA 10+69.19 TO STA 19+41.27
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



DATUM
BASED ON CITY DATUM, [illegible]
N.E. CORNER OF [illegible]
[illegible]

UNDERGROUND SERVICE ALERT
DAZ-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. 53 L.F. OF 18" CPE CULVERT WITH CONCRETE HEADWALL PER DETAIL X, SHEET A. R(INV)=[illegible], R(TOP)=[illegible] [illegible]
2. SEE [illegible], KEY TYPE 1 CATCH BASIN (F-[illegible]).
3. INSTALL STORM SYSTEM PER S-PREFIX PLAN, PROFILE, AND CONSTRUCTION NOTES.

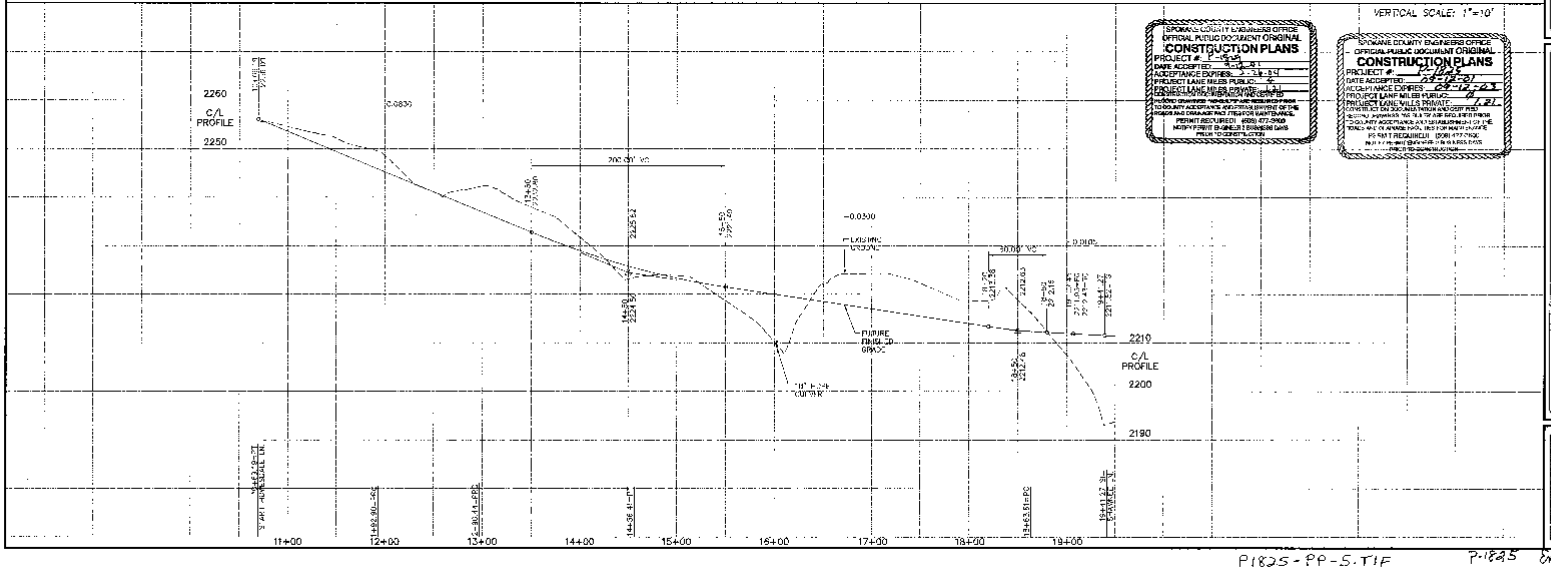
CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C6	34.00	52.17	32.04	47.13	87°54'24"
C7	337.00	134.47	68.36	133.54	22°51'00"
C8	150.00	103.24	53.93	101.21	39°27'03"
C9	275.00	123.11	62.62	122.07	25°40'22"

DEVELOPER'S APPROVAL

9/10/01
DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED 9-10-01
ACCEPTANCE EXPIRES 9-10-04
PROJECT LANE MILES PUBLIC 5
PROJECT LANE MILES PRIVATE 1.31
[illegible]

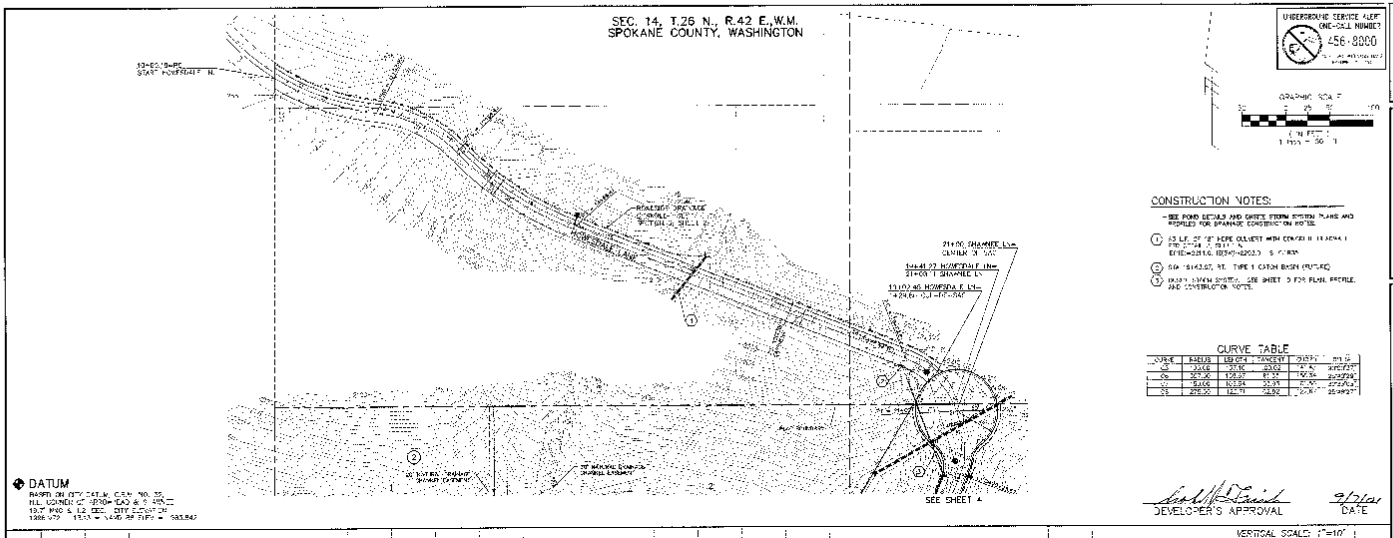
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED 9-10-01
ACCEPTANCE EXPIRES 09-10-04
PROJECT LANE MILES PUBLIC 5
PROJECT LANE MILES PRIVATE 1.31
[illegible]

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
HOWESDALE LN STA 10+89.19 TO STA 19+41.27
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

5 OF 12
Sheet Number

P1825-PP-5.TIF P-1825 Eng Road Drainage



STREET CONSTRUCTION PLANS

SHAWNEE CANYON ESTATES

STREET AND STORM DRAINAGE

HOWESDALE LN STA 10+89.19 TO STA 19+41.27

SPOKANE COUNTY, WASHINGTON

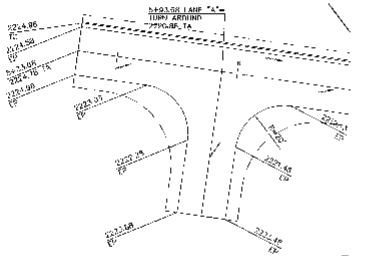
Sheet Title
STREET PLAN AND PROFILE

5 OF 12
Sheet Number

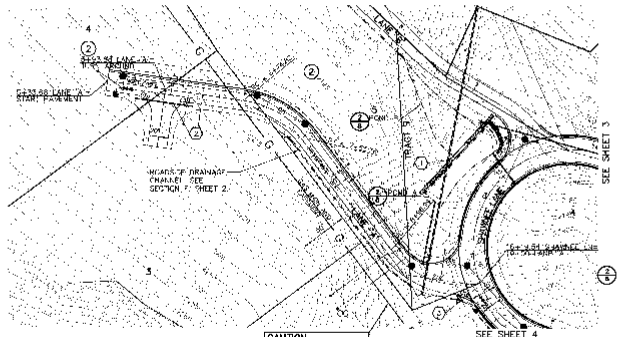
P-1825 Eng Road Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



TURN AROUND DETAIL
SCALE 1" = 20'



GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

CONSTRUCTION NOTES:

- SEE POND DETAILS AND ONSITE STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES

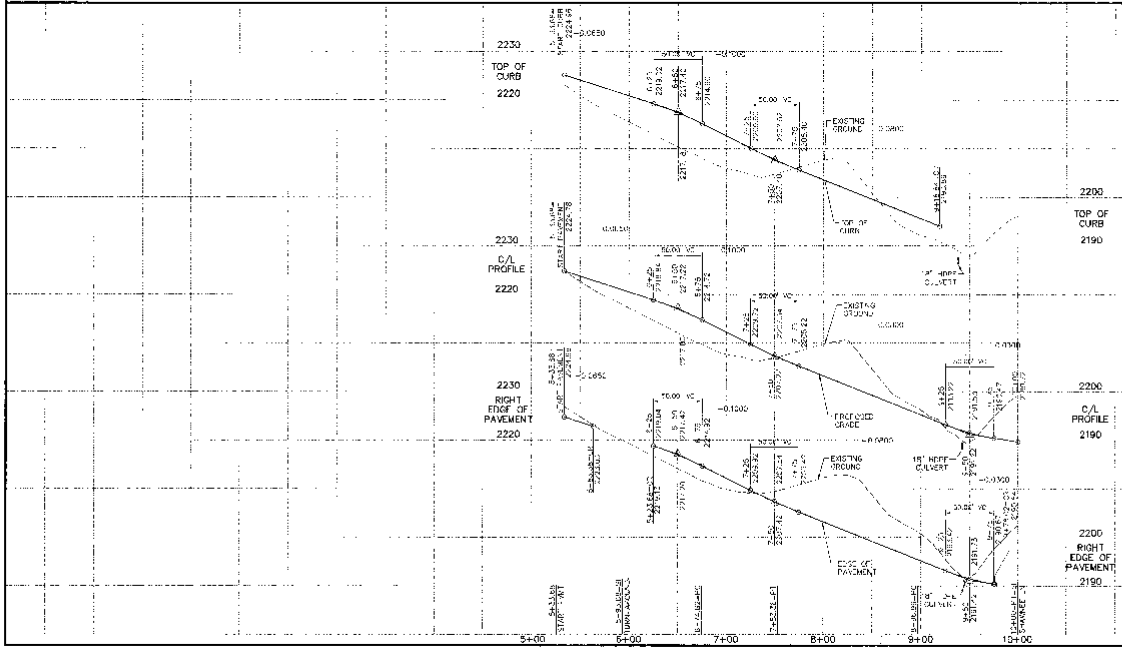
1. 84" CMP CULVERT. SEE SHEET 12 FOR PLAN, PROFILE AND CONSTRUCTION NOTES
2. 60 L.F. OF 12" HDPE CULVERT
3. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN

CURVE TABLE

CURVE	RADIUS	CHORD	TANGENT	ARCLEN	DELTA
C1	125.00	133.80	175.38	139.70	153°37'30"
C2	132.00	28.54	41.45	28.54	12°22'00"
C3	100.00	103.93	37.88	97.41	62°21'00"
C4	33.00	64.4	56.38	53.97	225°08'11"
C5	33.00	27.74	14.65	26.79	37°39'12"
C6	20.00	3.12	23.33	19.20	0°00'00"
C20	20.00	31.42	20.00	28.28	90°00'00"

DEVELOPER'S APPROVAL — DATE 9/27/01

DATUM
BASED ON CITY DATUM, COOR. NO. 52.
N.E. CORNER OF ARROW 240 & SHAWNEE
15.2' NNO & 1.2' E.O.C. CITY ELEVATION
1936.972 - N.G.V.D. - NAVD 88 ELEV. - 1968.812



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-0155
DATE ACCEPTED: 09-25-01
ACCEPTANCE EXPIRES: 3-26-04
PROJECT LANE MILES PUBLIC: 1.20
PROJECT LANE MILES PRIVATE: 0.00
CONSTRUCTION DOCUMENTS MUST BE ESCORTED PRIOR TO COUNTY ACCEPTANCE OR TO ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-0155
DATE ACCEPTED: 6-12-01
ACCEPTANCE EXPIRES: 3-26-04
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.20
CONSTRUCTION DOCUMENTS MUST BE ESCORTED PRIOR TO COUNTY ACCEPTANCE OR TO ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-0155
DATE ACCEPTED: 09-25-01
ACCEPTANCE EXPIRES: 03-26-04
PROJECT LANE MILES PUBLIC: 1.20
PROJECT LANE MILES PRIVATE: 1.20
CONSTRUCTION DOCUMENTS MUST BE ESCORTED PRIOR TO COUNTY ACCEPTANCE OR TO ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 24 BUSINESS DAYS PRIOR TO CONSTRUCTION

Eastern Engineering
Architecture
Land Surveying
Landscape Architecture
Land Planning
Spokane, WA
Tel: 509-456-9000
Fax: 509-456-9001

PREPARED UNDER THE DIRECT SUPERVISION OF:
NILSON R. BRAUN, P.E.
WASHINGTON REGISTRATION
FOR AND ON BEHALF OF
CLG ASSOCIATES, INC.

EXPIRES 9/29/01

ORIGINAL SEAL IMPRESSION

REVISIONS
09/28/01 ORIGINAL SUBMITTED
09/28/01 REVISED PER COMMENTS

Project No. 1-1-1
Drawn by: Jim
Date: 9-28-01
Designed by: NRB
Checked by: NRB
Scale: 1"=10'

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE 'A' STA 5+33.68 TO STA 10+00
SPOKANE COUNTY, WASHINGTON

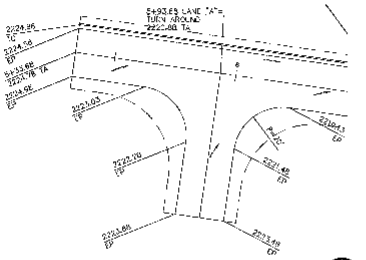
Sheet Title
STREET PLAN AND PROFILE

6 OF 12
Sheet Number

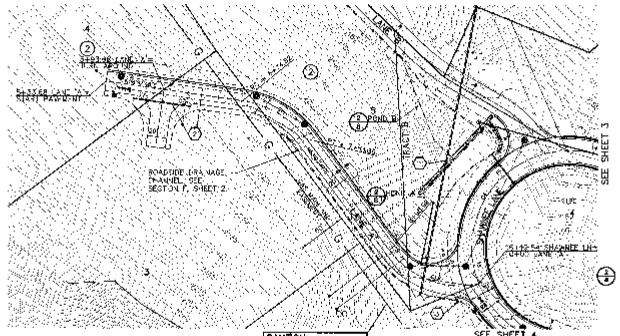
SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
1 inch = 30 ft.



TURN AROUND DETAIL
SCALE: 1" = 20'



CAUTION
EXISTING HIGH PRESSURE GAS MAIN

CONSTRUCTION NOTES:

- SEE POND DETAILS AND OVERALL STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.

1. 8" PVC PIPE (SLOPE) SEE SHEET 12 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
2. 50 L.F. OF 12" HDPE CULVERT (EIN=2217.13, HE(S)=2221.63, S=0.0160)
3. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN A-5

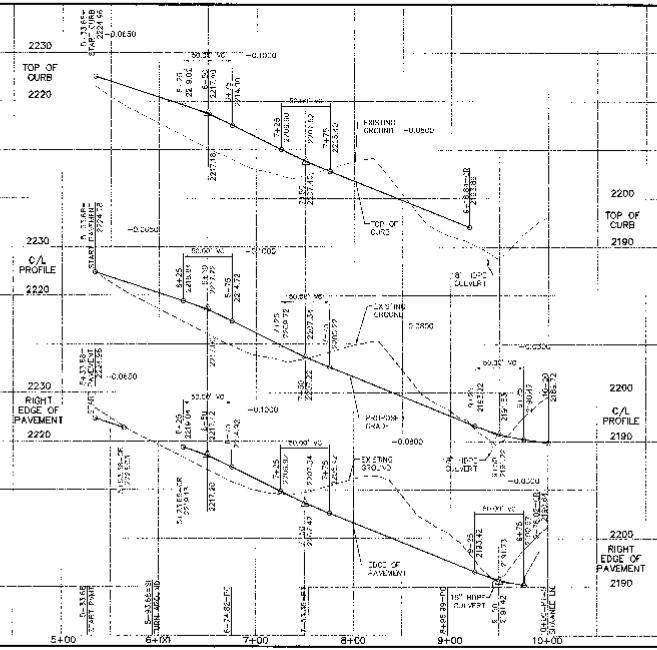
CURVE TABLE

CURVE	RADIUS	LENGTH	"DELTA"	"CHORD"	DATA
C4	100.00	109.99	12°16'35"	109.99	100°00'00"
C11	60.00	78.54	4°40'	75.94	4°00'00"
C12	100.00	101.39	57.94	97.44	0°01'15"
C15	30.00	44.9	33.29	27.7	28°30'44"
C16	30.00	27.74	54.97	26.72	53°04'48"
C17	30.00	31.42	60.00	28.26	60°00'00"
C20	20.00	21.72	60.00	20.72	60°00'00"

DATUM
BASED ON CITY DATUM, PSN NO. 32.
N.P. CORNER OF ARROWHEAD & S. ADAMS
19.7' NWC & 12' EEC. CITY ELEVATION
1396.972 - 13.13 = NAVD 88 ELEV = 1383.842

DEVELOPER'S APPROVAL — DATE 7/27/01

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-1825
DATE ACCEPTED 09-17-01
ACCEPTANCE EXPIRES 09-17-03
PROJECT LANE MILES PUBLIC 0.27
PROJECT LANE MILES PRIVATE 0.27
CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM ACCEPTANCE DATE OR ACCEPTANCE MAY BE RESCINDED AT THE SOLE DISCRETION OF THE SPOKANE COUNTY ENGINEER. ACCEPTANCE DOES NOT CONSTITUTE A PERMIT TO CONSTRUCT.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT Engineer 24 HOURS BEFORE PRIOR TO COMMENCEMENT OF CONSTRUCTION

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-1825
DATE ACCEPTED 9-13-01
ACCEPTANCE EXPIRES 9-13-03
PROJECT LANE MILES PUBLIC 0
PROJECT LANE MILES PRIVATE 0.27
CONSTRUCTION MUST COMMENCE WITHIN ONE YEAR FROM ACCEPTANCE DATE OR ACCEPTANCE MAY BE RESCINDED AT THE SOLE DISCRETION OF THE SPOKANE COUNTY ENGINEER. ACCEPTANCE DOES NOT CONSTITUTE A PERMIT TO CONSTRUCT.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT Engineer 24 HOURS BEFORE PRIOR TO COMMENCEMENT OF CONSTRUCTION

Associates, Inc.
Planning
Engineering
Surveying
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. OGDEN, P.E.
WASHINGTON REGISTRATION
NO. 37461
FOR AND ON BEHALF OF
GLC ASSOCIATES, INC.

DATE	REVISION
7/27/01	ORIGINAL PRESENTATION
8/13/01	SPOKANE COUNTY REVIEW COMMENTS

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE 'A' STA 5+33.68 TO STA 10+00
SPOKANE COUNTY, WASHINGTON

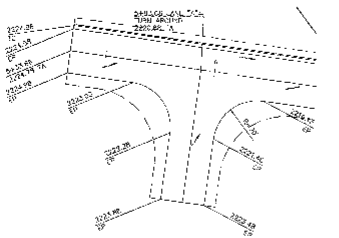
Sheet Title
STREET PLAN AND PROFILE

6 OF 12
Sheet Number

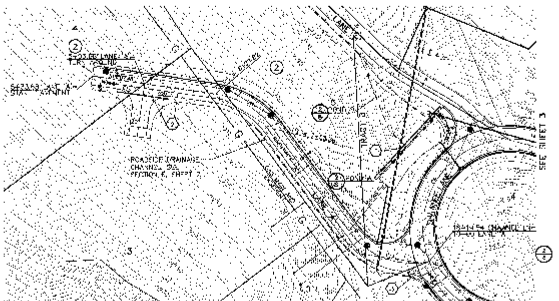
P1825-PP-6.TIF

P-1825 Eng. Road + Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



TURN AROUND DETAIL



DATUM

UNDERGROUND SERVICE ALERT
CALL 24 HOURS BEFORE YOU DIG
456-6000

GRAPHIC SCALE

CONSTRUCTION NOTES:

1. SEE MAIN DETAILS AND OWNER STORM SYSTEM PLANS AND PROFILES FOR DRAINAGE CONSTRUCTION NOTES.
2. 84-FOOT CULVERT. SEE SHEET 12 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
3. 48 L.F. OF 12" HDPE. FLOWLINE ELEV=2297.5, END=2295.65, S=0.0386
4. "STREET NAME" SIGN PER SPOKANE COUNTY STANDARD PLAN A-19

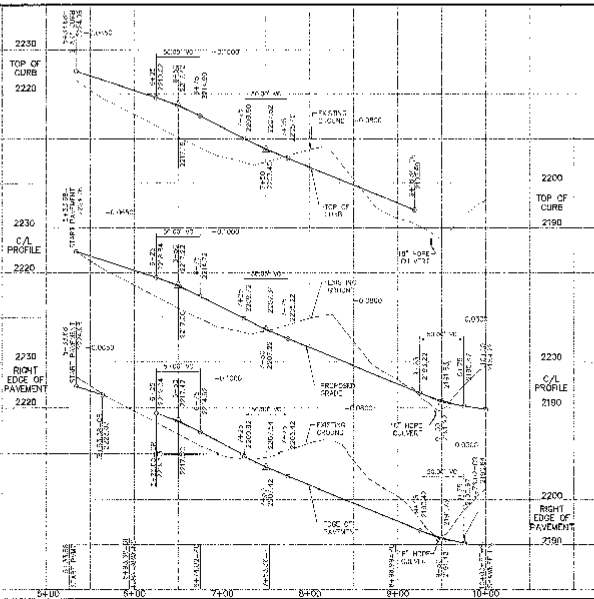
CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT	BEARING
C4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C6	300.00	20.00	3.99	10.00	N47°[illegible]
C7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C10	20.00	[illegible]	[illegible]	[illegible]	[illegible]

DEVELOPER'S APPROVAL

9/3/01
DATE

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS
ORIGINAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT ENGINEER
PROJECT MANAGER
ENGINEERING INSPECTOR

STREET CONSTRUCTION PLANS

SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE 'A' STA 5+33.88 TO STA 10+00

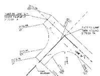
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

6 OF 12
Sheet Number

P-1825 Engineered Drainage

SEC. 14, T.25 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL

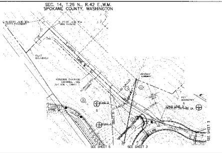
1

SCALE: 1" = 20'

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATUM



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)

CONSTRUCTION NOTES:

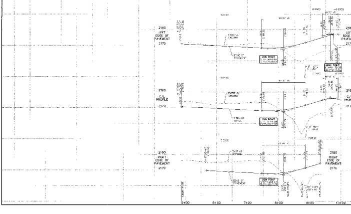
DEVELOPER'S APPROVAL 9/7/01
DATE

VERTICAL SCALE: 1"=10'

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT LANE MILES PUBLIC:
PROJECT LANE MILES PRIVATE:

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT LANE MILES PUBLIC:
PROJECT LANE MILES PRIVATE:
PERMIT REQUIRED:

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECT LANE MILES PUBLIC:
PROJECT LANE MILES PRIVATE:
PERMIT REQUIRED:



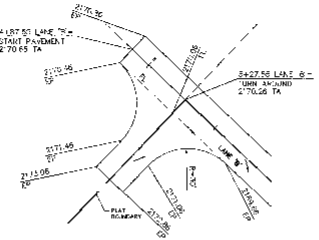
PREPARED UNDER THE DIRECT SUPERVISION OF NELSON W. COBEN, P.E.

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE 'B' STA 4+87.55 TO STA 10+00
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

7 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL

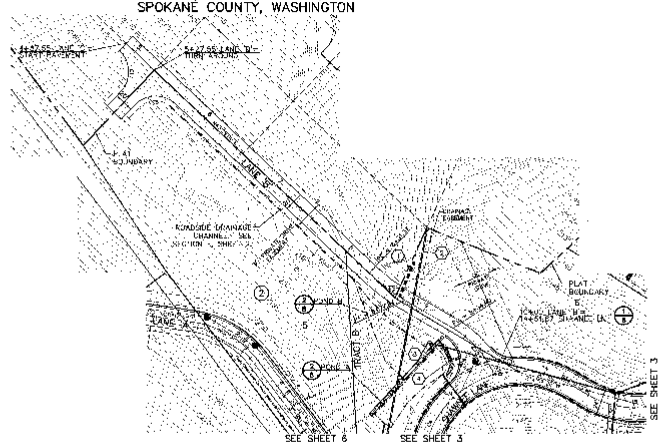
SCALE: 1" = 20'

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C1	103.00	320.00	120.00	199.42	178°00'00"
C2	200.00	46.49	23.34	46.37	13°18'51"
C3	125.00	63.10	32.20	62.43	29°12'04"
C4	30.00	29.74	15.90	27.50	56°34'42"
C5	30.00	57.47	40.60	48.08	109°48'16"
C6	31.00	47.12	30.00	42.42	90°00'00"
C7	30.00	47.12	30.00	42.43	90°00'00"

DATUM

BASED ON CITY DATUM, C.D.M. NO. 32,
N.E. CORNER OF ARROW BLVD. & SHAWNEE
19.7' N.W. & 1.2' E.S.E. OF MANHOLE
1998.872 - 1.313 = NAVD 88 ELEV = 1997.5842



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

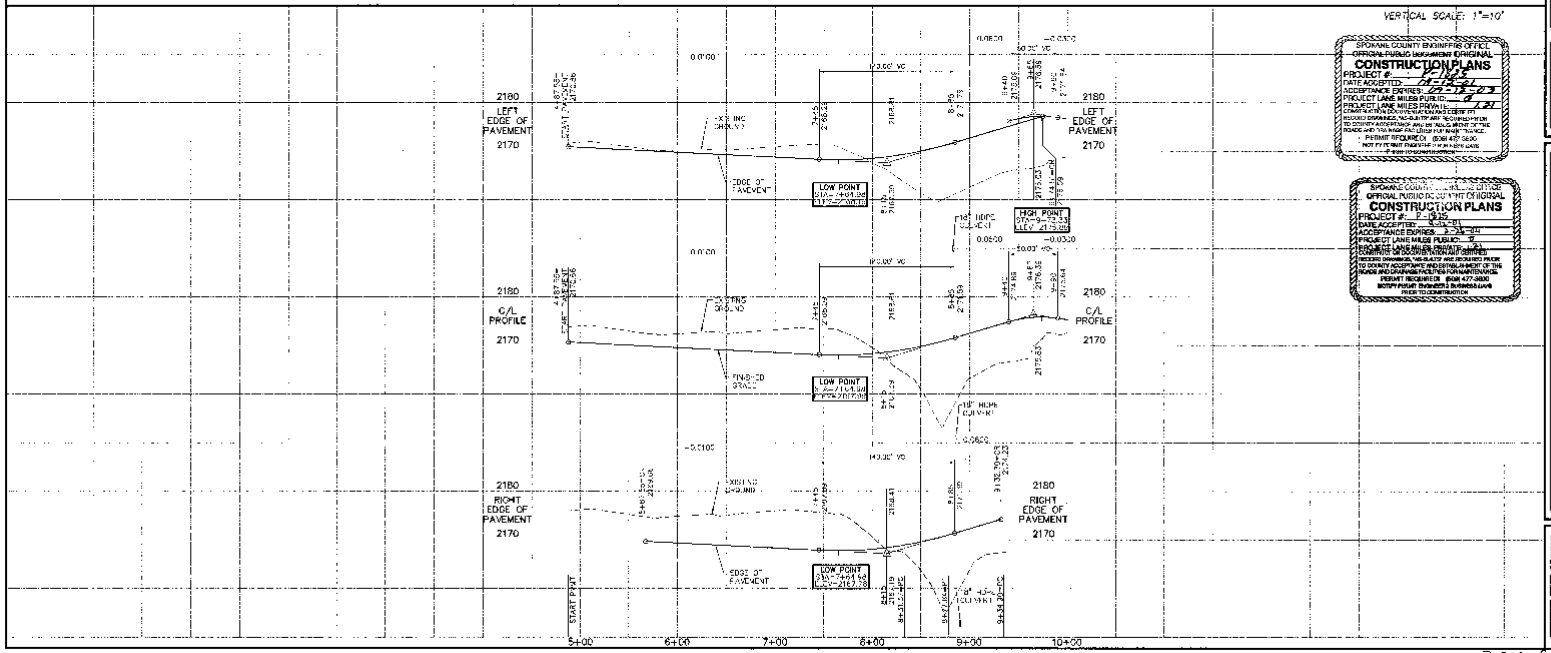
9-19-03

CONSTRUCTION NOTES:

1. REMOVE EXISTING STORM CULVERT.
2. INSTALL CULVERT. SEE SHEET 12 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
3. INSTALL DRAIN. SEE SHEET 11 FOR PLAN, PROFILE, AND CONSTRUCTION NOTES.
4. INSTALL MANHOLE PER SPOKANE COUNTY STANDARD PLAN A-6.

DEVELOPER'S APPROVAL — DATE 9/7/01

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 11-12-01
ACCEPTANCE EXPIRES: 11-12-03
PROJECT LANE MILES PUBLIC: 0.21
PROJECT LANE MILES PRIVATE: 0.21
CONSTRUCTION DOCUMENTS MUST BE COMPLETE
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

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 11-12-01
ACCEPTANCE EXPIRES: 11-12-03
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.21
CONSTRUCTION DOCUMENTS MUST BE COMPLETE
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

PREPARED UNDER THE DIRECT SUPERVISION OF
MICHAEL N. DURNIN, P.E.
WASHINGTON REGISTRATION NO. 37401
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

STREET CONSTRUCTION PLANS

SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE "B" STA 4+87.55 TO STA 10+00
SPOKANE COUNTY, WASHINGTON

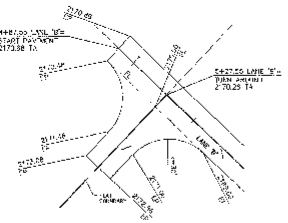
Sheet Title
STREET PLAN AND PROFILE

7 OF 12
Sheet Number

P1825-PP-7.TIF

P1825 Eng Roads Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL 1

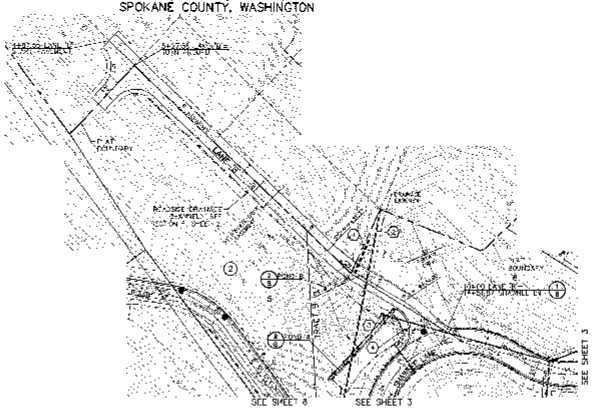
SCALE 1" = 20'

CURVE TABLE

CURVE	RADIUS	ARC LEN	TANGENT	CHORD	DELTA
C1	200.00	125.66	126.37	89.36	1[illegible]
C2	200.00	46.48	23.34	46.37	13°[illegible]
C4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C3	[illegible]	[illegible]	[illegible]	22.85	[illegible]
C4	30.00	50.41	42.56	45.03	96°[illegible]
C5	30.00	47.12	30.00	42.43	90°00'00"
C6	30.00	47.12	30.00	42.43	90°00'00"

DATUM

BASED ON CITY DATUM [illegible]
N.G. DATUM OF WASHINGTON & SHAWNEE
[illegible]
1946.972 = [illegible] ABOVE MP [illegible]



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
(48 HRS. EXCLUDES DAY BEFORE & AFTER)

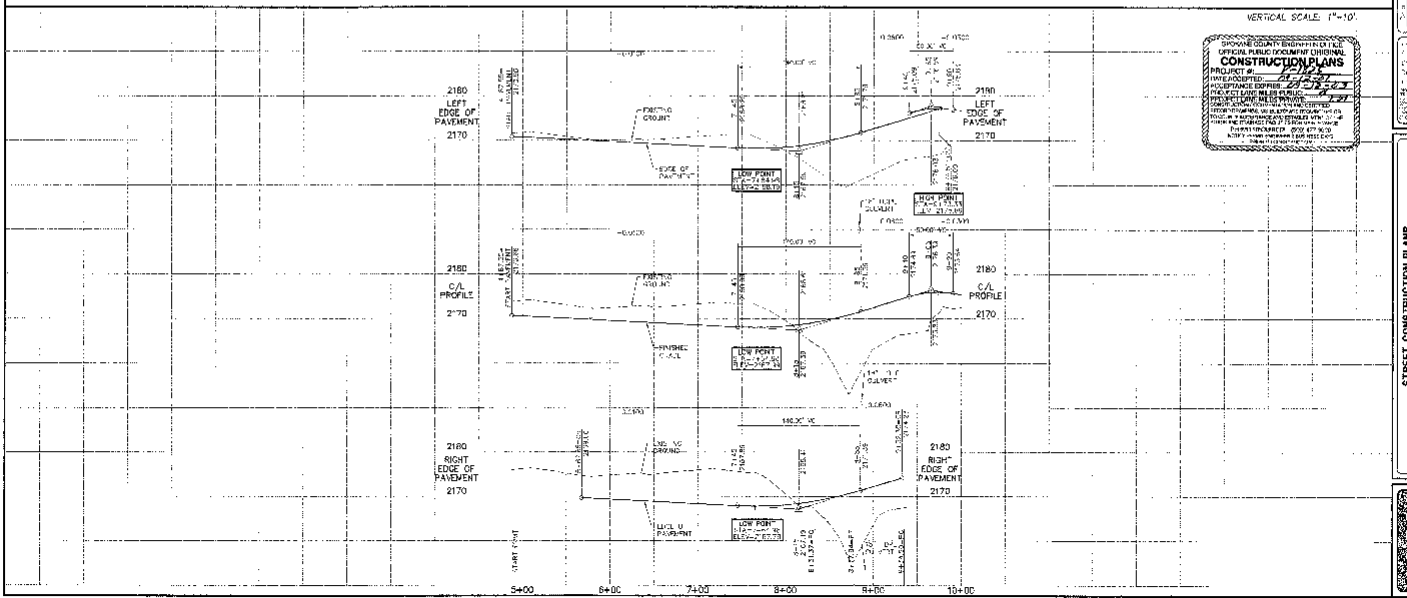
GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES:

1. REMOVE EXISTING STORM CULVERT
2. INSTALL CULVERT. SEE SHEET 12 FOR PLAN, PROFILE AND CONSTRUCTION NOTES.
3. INSTALL [illegible] ON PLAN, PROFILE AND CONSTRUCTION NOTES.
4. STREET SHOULDER PER SPOKANE COUNTY STANDARD PLAN [illegible]

DEVELOPER'S APPROVAL — DATE 9/12/01

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ADOPTED:
ACCEPTANCE EXPIRES:
PUBLIC ROAD MILES BUILT:
PRIVATE LANE MILES BUILT:
CONSTRUCTION PLANS NOT ACCEPTED
[illegible]
ENGINEER

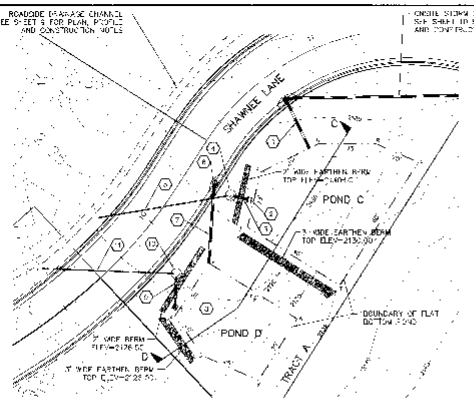
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
LANE 'B' STA 4+87.55 TO STA 10+00
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET PLAN AND PROFILE

7 OF 12
Sheet Number

P-1525 Eng. Road & Drainage

SEC. 14, T.26 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON



PONDS C & D DETAIL

SCALE 1" = 20'

1

POND D

POND BOTTOM ELEV = 2120.00
POND BOTTOM AREA = 1,250 SQ.FT.
10-YEAR 24HR VOLUME = 89 C.F.
100-YEAR 24HR VOLUME = 1,110 C.F.
OUTLET ELEVATION = 2122.00
MINIMUM BERM ELEV = 2124.00

POND C

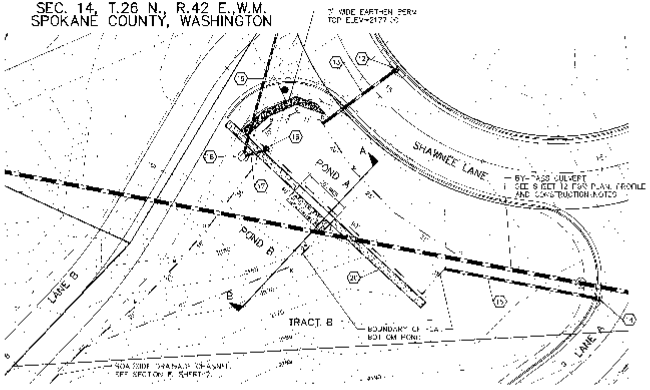
POND BOTTOM ELEV = 2129.00
POND BOTTOM AREA = 2,750 S.F.
10-YEAR 24HR VOLUME = 750 C.F.
100-YEAR 24HR VOLUME = 2,750 C.F.
OUTLET ELEVATION = 2132.00
MINIMUM BERM ELEV = 2133.00

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
1	13+77.4	43.0
2	13+77.4	23.0
3	13+82.4	23.0
4	13+82.4	43.0
5	13+77.4	32.0

POND BOTTOM DIMENSION TABLE	
POINT 2	20
2-3	5
3-4	20
4-5	10

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
1	13+77.4	43.0
2	13+77.4	23.0
3	13+82.4	23.0
4	13+82.4	43.0
5	13+77.4	32.0

POND BOTTOM DIMENSION TABLE	
POINT 2	20
2-3	5
3-4	20
4-5	10



PONDS A & B DETAIL

SCALE 1" = 20'

2

POND B

POND BOTTOM ELEV = 2126.00
POND BOTTOM AREA = 2,270 S.F.
10-YEAR 24HR VOLUME = 1,034 C.F.
100-YEAR 24HR VOLUME = 1,034 C.F.
OUTLET ELEVATION = 2128.00
MINIMUM BERM ELEV = 2129.00

POND A

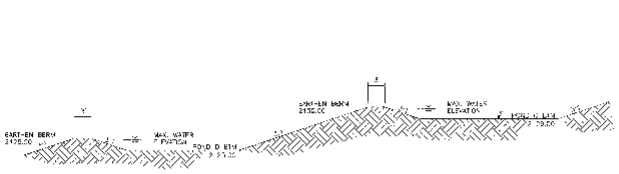
POND BOTTOM ELEV = 2124.00
POND BOTTOM AREA = 1,275 S.F.
10-YEAR 24HR VOLUME = 1,034 C.F.
100-YEAR 24HR VOLUME = 1,034 C.F.
OUTLET ELEVATION = 2126.00
TOP OF WALL ELEV = 2127.33
MINIMUM BERM ELEV = 2127.00

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
1	14+27.8	31.0 R
2	14+33.9	31.0 R
3	14+33.9	24.0 R
4	14+32.7	24.0 R
5	14+32.7	19.0 R
6	14+29.4	14.0 R
7	14+14.1	14.0 R
8	14+14.1	19.0 R
9	14+12.9	24.0 R
10	14+12.9	31.0 R

POND BOTTOM DIMENSION TABLE	
POINT 2	6
2-3	11
3-4	1
4-5	5
5-6	15
6-7	14
7-8	5
8-9	1
9-10	6

CONSTRUCTION NOTES:

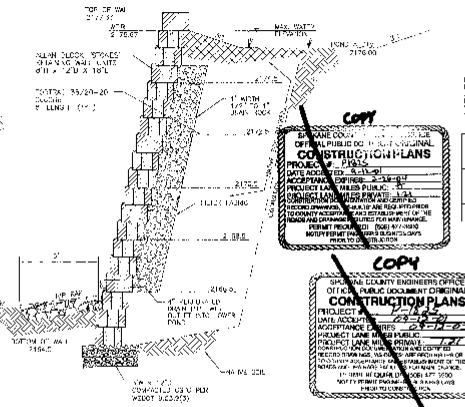
1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]
19. [illegible]
20. [illegible]



PONDS C & D SECTION

NOT TO SCALE

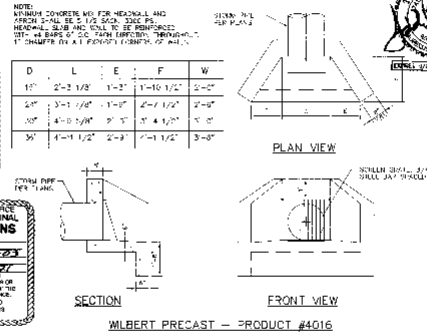
5



PONDS A & B AND RETAINING WALL SECTION

NOT TO SCALE

4



WILBERT PRECAST – PRODUCT #4016

CONCRETE HEADWALL

NOT TO SCALE

3

COUNTY DATUM

BASED ON CITY DATUM, COMM. NO. 22,
NE CORNER OF INTERSECTION OF SHAWNEE
18.7 NVD 88 (USC & GS VERTICAL DATUM)
1988 NVD = 1312 = NGVD 29 - 11.7 = 1300.5342

COPY

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 21-18
DATE ACCEPTED: 9-24-01
ACCEPTANCE EXPIRES: 9-24-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0
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 INSPECTOR 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

COPY

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 21-18
DATE ACCEPTED: 9-24-01
ACCEPTANCE EXPIRES: 9-24-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0
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 INSPECTOR 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

WALL CONSTRUCTION NOTES

ALL DESIGN DOCUMENT FOR COMPLETE WALL DESIGN.

1. RETAINING WALL CONSTRUCTION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
2. NATIVE SOIL BACKFILL IN 12" ALLOW BASIN SHALL BE COMPACTED TO 90% MIN. OF MODIFIED PROCTOR (ASTM D-1557).
3. CITY BASE SHALL BE COMPACTED TO 95% MIN. OF MODIFIED PROCTOR (ASTM D-1557).
4. RETAINING WALL BLOCKS & ALL BACKFILL MUST BE NON-ORGANIC MATERIAL.

DEVELOPER'S APPROVAL

9/21/01
DATE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

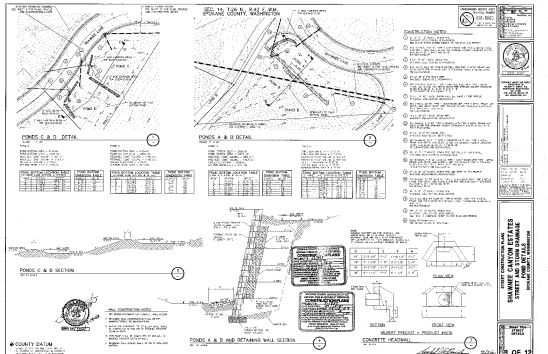
Jones & Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. GORDON, PLS
WASHINGTON REGISTRATION
NO. 20451
FOR AND ON BEHALF OF
CLS ASSOCIATES, INC.

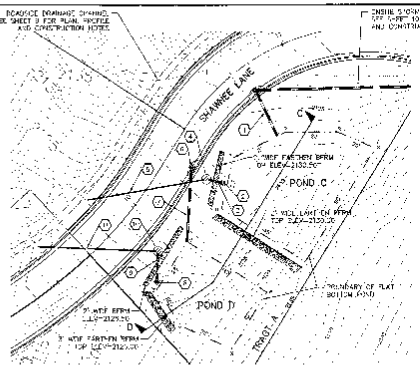
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
POND DETAILS
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET DETAILS

8 OF 12
Sheet Number



P1825-XSEC-8.TIF



PONDS C & D DETAIL

1

POND C

POND BOTTOM ELEV. = 2,235.00
POND BOTTOM AREA = 1,750 S.F.
REQUIRED "200" VOLUME = 862 C.F.
PROVIDED "200" VOLUME = 1,750 C.F.
OUTLET ELEVATION = 2,233.50
EMERGENCY OVERFLOW = 2,237.50

POND D

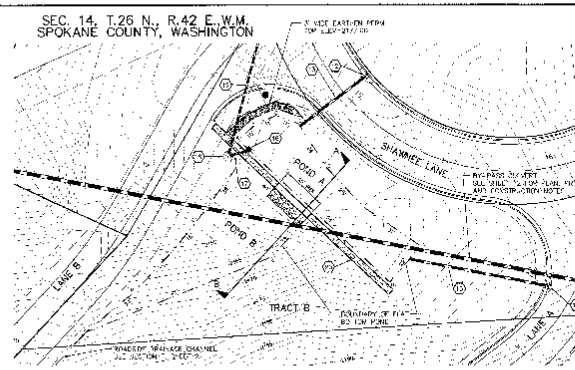
POND BOTTOM ELEV. = 2,235.00
POND BOTTOM AREA = 2,400 S.F.
REQUIRED "200" VOLUME = 1,180 C.F.
PROVIDED "200" VOLUME = 1,180 C.F.
OUTLET ELEVATION = 2,233.50
EMERGENCY OVERFLOW = 2,237.50

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
[illegible]	[illegible]	[illegible]

POND BOTTOM DIMENSION TABLE	
POINT	LENGTH
[illegible]	[illegible]

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
[illegible]	[illegible]	[illegible]

POND BOTTOM DIMENSION TABLE	
POINT	LENGTH
[illegible]	[illegible]



PONDS A & B DETAIL

2

POND A

POND BOTTOM ELEV. = 2,236.25
POND BOTTOM AREA = 1,700 S.F.
REQUIRED "200" VOLUME = 862 C.F.
PROVIDED "200" VOLUME = 1,700 C.F.
OUTLET ELEVATION = 2,238.50
EMERGENCY OVERFLOW = 2,237.50

POND B

POND BOTTOM ELEV. = 2,236.25
POND BOTTOM AREA = 1,700 S.F.
REQUIRED "200" VOLUME = 862 C.F.
PROVIDED "200" VOLUME = 1,700 C.F.
OUTLET ELEVATION = 2,238.50
EMERGENCY OVERFLOW = 2,237.50

POND BOTTOM LOCATION TABLE (LANE B STATION & OFFSET)		
POINT	STATION	OFFSET
[illegible]	[illegible]	[illegible]

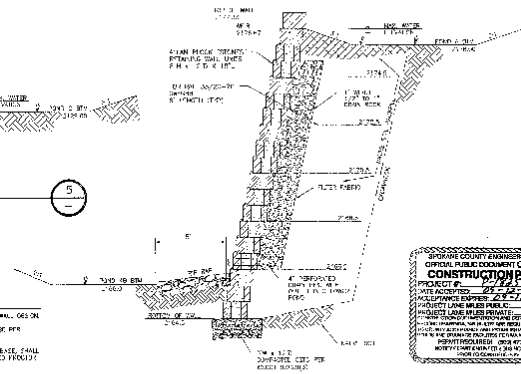
POND BOTTOM DIMENSION TABLE	
POINT	LENGTH
[illegible]	[illegible]

POND BOTTOM LOCATION TABLE (SHAWNEE LANE STATION & OFFSET)		
POINT	STATION	OFFSET
[illegible]	[illegible]	[illegible]

POND BOTTOM DIMENSION TABLE	
POINT	LENGTH
[illegible]	[illegible]

PONDS C & D SECTION

5



PONDS A & B AND RETAINING WALL SECTION

4

WALL CONSTRUCTION NOTES

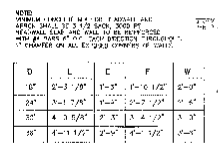
SEE DETAIL SHEET FOR WALL DESIGN

1. RETAINING WALL CONSTRUCTION SHALL BE PER MANUFACTURER'S CONSTRUCTION NOTES
2. BACKFILL FOR FOUNDATION TO 12" BELOW BASE SHALL BE COMPACTED TO 95% UNDER WETTED PERIMETER (ASTM D-1557).
3. CUTS BASE SHALL BE COMPACTED TO 95% MIN. (ASTM D-1557).
4. RETAINING WALL BACKFILL SHALL BE FREE OF ORGANIC MATERIAL

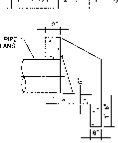
COUNTY DATUM

BASED ON CITY DATUM BENCH NO. 32.
[illegible]

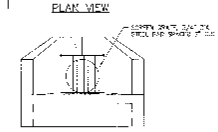
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1825
DATE ACCEPTED: 9/22/03
ACCEPTANCE EXPIRES: 9/22/04
PROJECT LANE MILES PUBLIC: 0.31
PROJECT LANE MILES PRIVATE: 0.31
[illegible]



PLAN VIEW



SECTION



FRONT VIEW

WILBERT PRECAST - PRODUCT #4016

CONCRETE HEADWALL

3

DEVELOPER'S APPROVAL

9/12/03
DATE

P-1825 Eng. Road & Drainage

CONSTRUCTION NOTES:

1. 2 L.F. OF 12" HDPE STORM PIPE
2. 5 L.F. OF 12" HDPE STORM PIPE
3. 6 L.F. OF 12" HDPE STORM PIPE
4. 5 L.F. OF 12" HDPE STORM PIPE
5. 54 L.F. OF 12" HDPE DRAIN PIPE
6. STA 10+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, B-17, AND B-18.
7. 30 L.F. OF 12" HDPE STORM PIPE
8. STA 0+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, AND B-18.
9. 12 L.F. OF 12" HDPE STORM PIPE
10. STA 0+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, AND B-18.
11. 54 L.F. OF 12" HDPE DRAIN PIPE
12. STA 14+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, AND B-18.
13. 28 L.F. OF 12" HDPE STORM PIPE
14. STA 21+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, AND B-18.
15. 65 L.F. OF 12" HDPE STORM PIPE SEE SHEET 11 FOR PROFILE
16. STA 0+00.00, 12.0' RT. TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE CLASS PER SPOKANE COUNTY STANDARD PLATES B-6, B-10, B-12, AND B-18.
17. 50 L.F. OF 12" HDPE STORM PIPE
18. 114 SQ.YD. OF 1.5" CLASS "B" CONCRETE BASKETBALL WITH TYPE 1 METAL FRAME AND GOLD COUNTER PER SPOKANE COUNTY STANDARD PLATES B-6 AND B-18.
19. 150 L.F. OF 12" HDPE STORM PIPE
20. 86 L.F. RETAINING WALL SEE SHEET 11 FOR PLAN AND PROFILE

NOTE:
MINIMUM LENGTH OF 4' FOR 1 REQUIRED AND APRON SHALL BE 3 1/2 SQUARE YARDS PER REQUIRED LENGTH AND SHALL BE IN ACCORDANCE WITH 8" YARDS OF 1" GOOD DIRECTION GRADATION. 1" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.

D	L	E	F	W
18"	2'-3 7/8"	1'-3"	1'-0 1/2"	2'-0"
24"	3'-1 7/8"	1'-4"	2'-2 1/2"	2'-6"
30"	4'-3 7/8"	2'-0"	3'-4 1/2"	3'-0"
36"	4'-11 1/2"	2'-9"	4'-1 1/2"	3'-6"

UNDERGROUND SERVICE ALERT
811-CALL BEFORE YOU DIG
456-8000

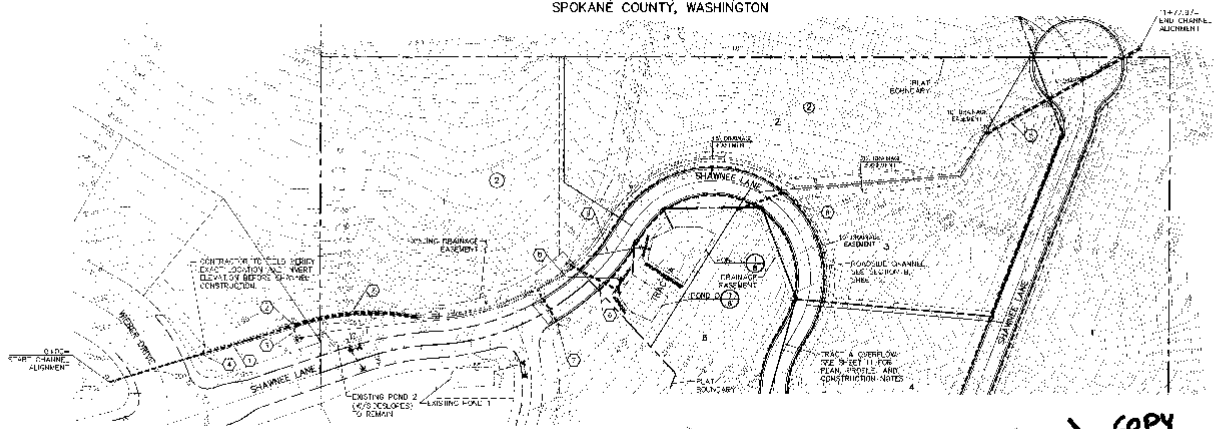
PREPARED UNDER THE DIRECT SUPERVISION OF WILLIAM A. HAMMOND WASHINGTON REGISTRATION NO. 13417 FOR AND ON BEHALF OF [illegible]

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
POND DETAILS
SPOKANE COUNTY, WASHINGTON

Sheet Title
STREET DETAILS

Sheet Number
8 OF 12

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



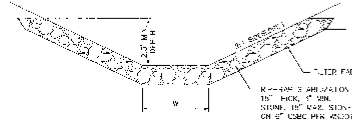
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

CONSTRUCTION NOTES:

1. REMOVE 96 L.F. OF EXISTING 24" CONCRETE STORM PIPE. REPLACE WITH DRAINAGE CHANNEL PER DETAIL 1, THIS SHEET.
2. REMOVE EXISTING STORM DRAINAGE MANHOLE AND 24" CONCRETE STORM PIPE.
3. EXISTING 12" CMP PIPE, DAYLIGHT INTO NEW DRAINAGE CHANNEL. (E)=2337.77 (45 BULB)
4. SEE PROFILE HEADWALL PER DETAIL 3 SHEET 8.
5. 60 L.F. OF 30" HDPE CULVERT WITH CONCRETE HEADWALL PER DETAIL 3, SHEET 8. (E)=2342.0, (E)=2341.0
6. EXISTING CULVERT TO BE REMOVED.
7. STA 9+18.40 RT. CONCRETE HEADWALL FOR EXISTING 24" CMP CULVERT. SEE DETAIL 2, SHEET 8.
8. 54 L.F. OF 2" PVC DRAIN PIPE FROM POND D. (E)=2341.50, (E)=2340.18 S=0.0055.
9. 54 L.F. OF 2" PVC DRAIN PIPE FROM POND C. (E)=2335.50, (E)=2334.03 S=0.0038.

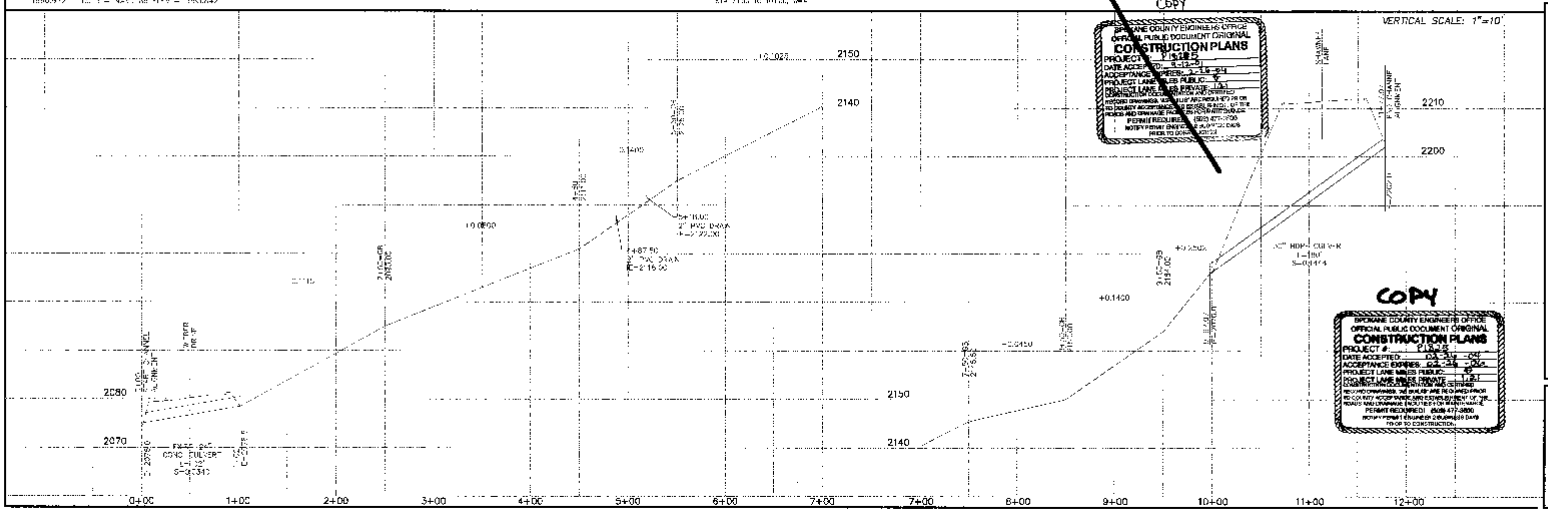
DEVELOPER'S APPROVAL — DATE 9/12/01



DRAINAGE CHANNEL SECTION

DATUM

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1152
DATE ACCEPTED 6-4-02
ACCEPTANCE EXPIRES 6-4-03
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS PRIOR TO CONSTRUCTION



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1152
DATE ACCEPTED 6-4-02
ACCEPTANCE EXPIRES 6-4-03
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS PRIOR TO CONSTRUCTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1152
DATE ACCEPTED 6-4-02
ACCEPTANCE EXPIRES 6-4-03
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS PRIOR TO CONSTRUCTION

CLC ASSOCIATES, INC.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

EXPIRES 9/30/01

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. GORDON, P.E.
WASHINGTON REGISTRATION NO. 37468
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

Rev.	Description
01/12/01	GENERAL REVISIONS
01/12/01	GENERAL CONSTRUCTION COMMENTS

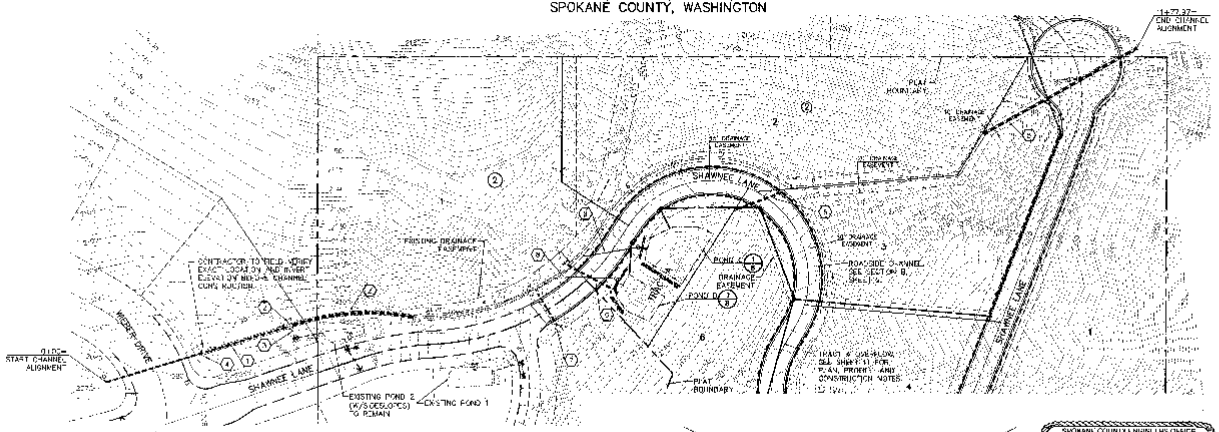
Date: 1/12/01
Drawn by: MRK
Designed by: NWG
Checked by: NWG
Project No. 1152

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
DRAINAGE CHANNEL AND CULVERT
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

9 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
Call two business days before you dig

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

EXPIRES MARCH 31, 2004

PREPARED UNDER THE DIRECT SUPERVISION OF
HELDON W. SORENSEN, P.E.
WASHINGTON REGISTRATION
NO. 37404
FOR AND ON BEHALF OF
CLC ASSOCIATES, INC.

CONSTRUCTION NOTES:

1. REMOVE 48 L.F. OF EXISTING 24" CONCRETE STORM PIPE. REPLACE WITH DRAINAGE CHANNEL PER DETAIL 1, THIS SHEET.
2. REMOVE EXISTING STORM DRAINAGE MANHOLE AND 36" CORRUGATED STORM PIPE.
3. EXISTING 12" CMP PIPE. DAYLIGHT INTO NEW DRAINAGE CHANNEL. IE(IN)=2336.73 (AS BUILT).
4. CONCRETE HEADWALL PER DETAIL 3, SHEET 8
5. 155 L.F. OF 30" HDPE CULVERT WITH CONCRETE HEADWALL PER DETAIL 3, SHEET 8. IE(NE)=2332.0, IE(SW)=2329.0
6. EXISTING CULVERT TO BE REMOVED.
7. RIP-RAP HEADWALL PER CONCRETE HEADWALL FOR EXISTING 24" CMP CULVERT. SEE DETAIL 5, SHEET 8.
8. 54 L.F. OF 2" PVC DRAIN PIPE FROM POND D. IE(E)=2121.50, IE(W)=2118.00. S=0.0652.
9. 54 L.F. OF 2" PVC DRAIN PIPE FROM POND C. IE(E)=2121.50, IE(W)=2118.00. S=0.0652.

SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1825
DATE ACCEPTED: 04-12-01
ACCEPTANCE EXPIRES: 04-12-03
PROJECT LANE MILES PUBLIC: 0.91
PROJECT LANE MILES PRIVATE: 1.31
CONSTRUCTION ACCEPTANCE ON 2nd YEAR
RECORD DRAWINGS, "AS-BUILT" INFO. REQUIRED PRIOR TO COUNTY ACCEPTANCE AND BEFORE 3rd YEAR OF DRAINAGE AND ROAD MAINTENANCE BEGINS FOR WARRANTY
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

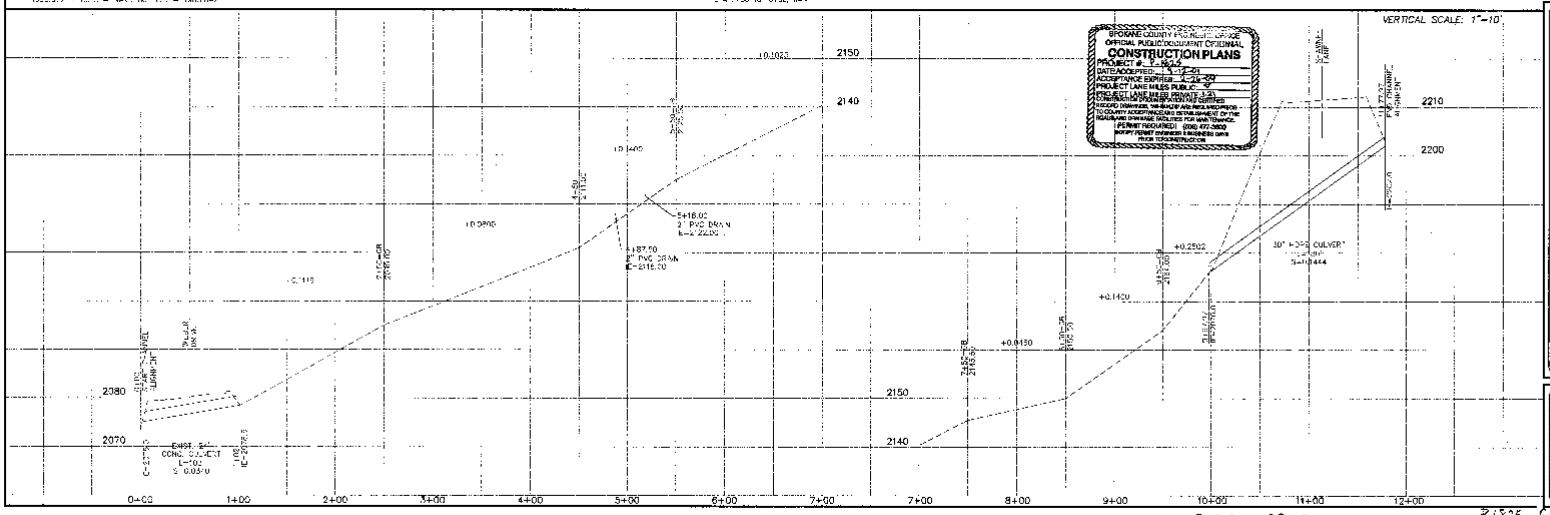
DEVELOPER'S APPROVAL — DATE 9/21/01

DRAINAGE CHANNEL SECTION

STA 1+00 TO 7+50, W=3'
STA 7+50 TO 10+50, W=4'

RIP-RAP STABILIZATION 18" T. OR, 3" MIN. STONE, 18" MAX. STONE ON 6" GRADE PER WSDOT STANDARDS ON WOVEN FILTER FABRIC

DATUM
BASED ON CITY OF SPOKANE BM, 2-BRASS CAP IN NE CORNER OF ARTERIAL AND N. ASHLEY
19.7' EAST & 1.2' NORTH OF HYDRANT
ELEV. 2279 - 1.2' = ASSUMED BM ELEV = 2280.842



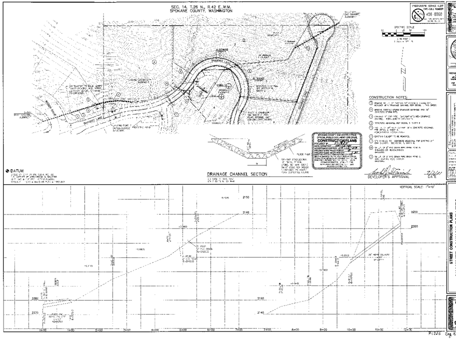
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
DRAINAGE CHANNEL AND CULVERT
SPOKANE COUNTY, WASHINGTON

Sheet Title: STORM DRAIN PLAN AND PROFILE

9 OF 12
Sheet Number

P1825-PP-9.TIF

P1825 Eng. Roads Drainage



P-1225 Eng. Bonds Shawnee

CONSTRUCTION NOTES:

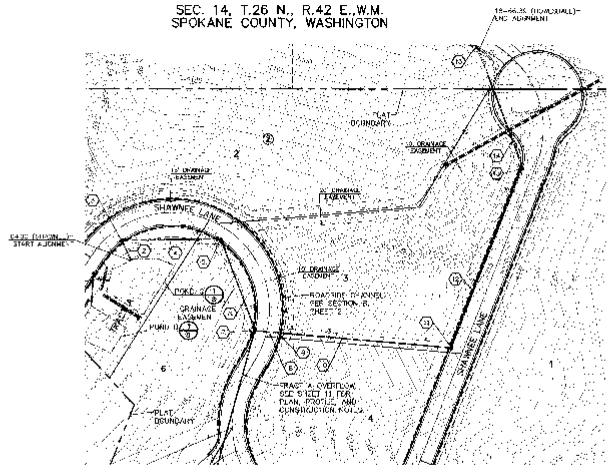
NOTE: ALL STATIONS REFER TO THE OVERIE DRAINAGE ALIGNMENT. CORRESPONDING STREET STATIONS SHOWN ON THE PROFILE.

1. [illegible]
2. [illegible] 12" H.D.P.E. STORM PIPE. S=0.0750, IE(0)=2939.84, IE(5)=2939.52.
3. STA 14+00.00 TYPE 1 CATCH BASIN W/ 1 - 9'x2' METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2933.69, RIM ELEV=2934.04.
4. 180 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0296, IE(0)=2921.80, IE(5)=2929.94.
5. STA 14+03.63 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2946.18, RIM ELEV=2947.83.
6. 180 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0496, IE(0)=2942.80, IE(5)=2937.43.
7. STA 14+24.33 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2937.98, RIM ELEV=2937.43.
8. 24 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0496, IE(0)=2936.93, IE(5)=2937.43.
9. STA 2+48.45 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13 AND B-17. TC ELEV=2982.00, RIM ELEV=2981.97.
10. 178 L.F. OF 12" H.D.P.E. STORM PIPE WITH CONCRETE PIPE ANCHORS PER FIGURE 6C OF THE SPOKANE COUNTY SPECIFICATIONS FOR STORMWATER MANAGEMENT. IE(0)=2922.93, IE(5)=2919.87.
11. STA 4+96.45 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2207.66, RIM ELEV=2207.42.
12. 200 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0141, IE(0)=2202.23, IE(5)=2202.96.
13. STA 5+53.79 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2201.72, RIM ELEV=2201.31.
14. 180 L.F. OF 12" H.D.P.E. STORM PIPE WITH 12" END CAP. S=0.0128, IE(0)=2206.45, IE(5)=2206.21.
15. FUTURE STA 7+00.74 TYPE 1 CATCH BASIN W/ TYPE 1 METAL FRAME AND GRATE AND GRATE CLOSE PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-12, B-13, B-17 AND B-18. TC ELEV=2113.46, RIM ELEV=2113.36.

DATUM

BASED ON CITY DATUM, [illegible] NAD 1983 (HPN) OF SPOKANE COUNTY & THANCE [illegible] 12" SEC. 14 ELEVATION 1296.672 [illegible] 98 ELEV = 963.672

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

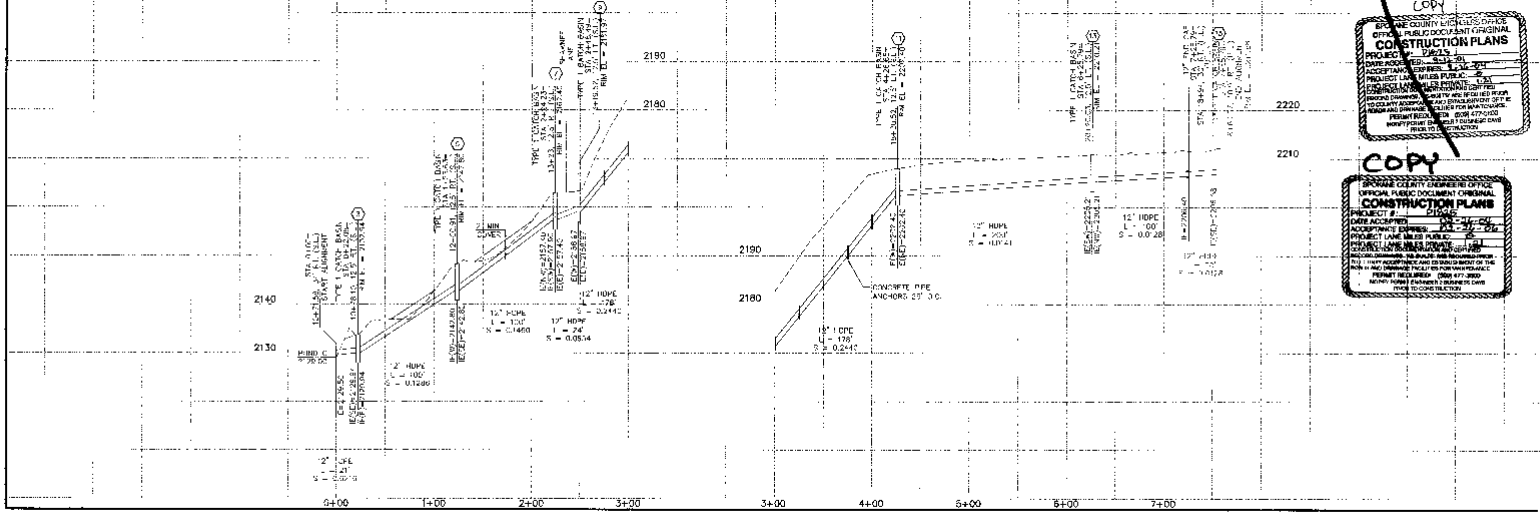
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

COPY
SPOKANE COUNTY ENGINEERS OFFICE
ON-SITE PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED
ACCEPTANCE EXPIRES
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
CONSTRUCTION DOCUMENTS SUBMITTED AND CERTIFIED
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL

7/12/01
DATE

VERTICAL SCALE: 1"=10'



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED
ACCEPTANCE EXPIRES
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
CONSTRUCTION DOCUMENTS SUBMITTED AND CERTIFIED
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CTS ENGINEERS, INC.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
[illegible]

EXPIRES 9/24/01

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. COATS, P.E.
WASHINGTON REGISTRATION
NO. 29401
FOR AND ON BEHALF OF
CTS ASSOCIATES, INC.

Date:	07/12/01
Drawn by:	[illegible]
Checked by:	[illegible]
Date:	[illegible]

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

CONSTRUCTION NOTES:

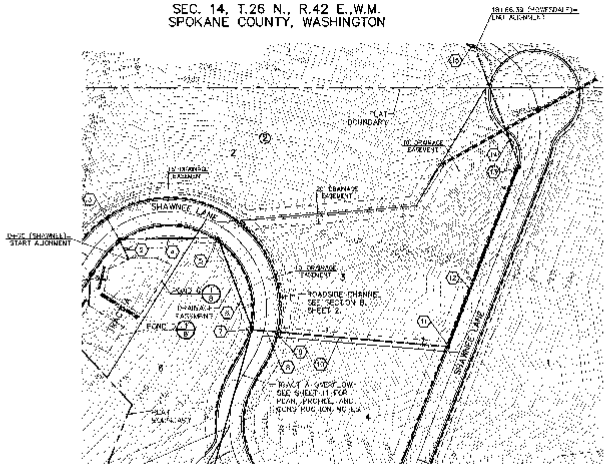
NOTE: ALL STATIONS REFER TO THE ONSITE DRAINAGE ALIGNMENT. CONSTRUCTION STAKE SHALL STATIONS SHOWN ON THE PROFILE.

1. NOT USED.
2. 2' L.F. OF 12" H.D.P.E. STUB PIPE. S=0.0010 IE(E)=2129.84, IC(S)=2129.70.
3. STA 0+22.08, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2133.52, RIM ELEV=2132.84.
4. 100 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.1286, IE(E)=2124.80, IE(S)=2128.84.
5. STA 1+23.63, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2145.30, RIM ELEV=2147.80.
6. 130 L.F. OF 10" H.D.P.E. STORM PIPE. S=0.1484, IE(N)=2142.80, IE(S)=2137.40.
7. STA 2+24.53, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2162.40, RIM ELEV=2162.40.
8. 24 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0834, IE(N)=2128.57, IE(N)=2127.46.
9. STA 2+48.49, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12 AND B-17. TC ELEV=2162.40, RIM ELEV=2161.90.
10. 175 L.F. OF 12" H.D.P.E. STORM PIPE WITH CONCRETE PIPE ANCHORS PER FIGURE 4G OF THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. S=0.0440, IE(N)=2129.40, IE(S)=2122.40.
11. STA 4+28.65, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2207.08, RIM ELEV=2207.40.
12. 200 L.F. OF 10" H.D.P.E. STORM PIPE. S=0.0141, IE(N)=2206.21, IE(S)=2202.43.
13. STA 5+25.38, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2217.95, RIM ELEV=2217.95.
14. 100 L.F. OF 12" H.D.P.E. STORM PIPE WITH 12" END CAP. S=0.0128, IE(N)=2226.40, IE(S)=2225.21.
15. NOTE: STA 7+50.29, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-12, B-17 AND B-18. TC ELEV=2271.98, RIM ELEV=2271.98.

DATUM

BASED ON CITY DATUM, CITY NO. 39
NE CORNER OF ARROW-END ELEVATION
13.7' NAVD @ 12" ESD. CITY ELEVATION
1998.932 - 12.7 = NAVD 88 ELEV = 1983.632

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

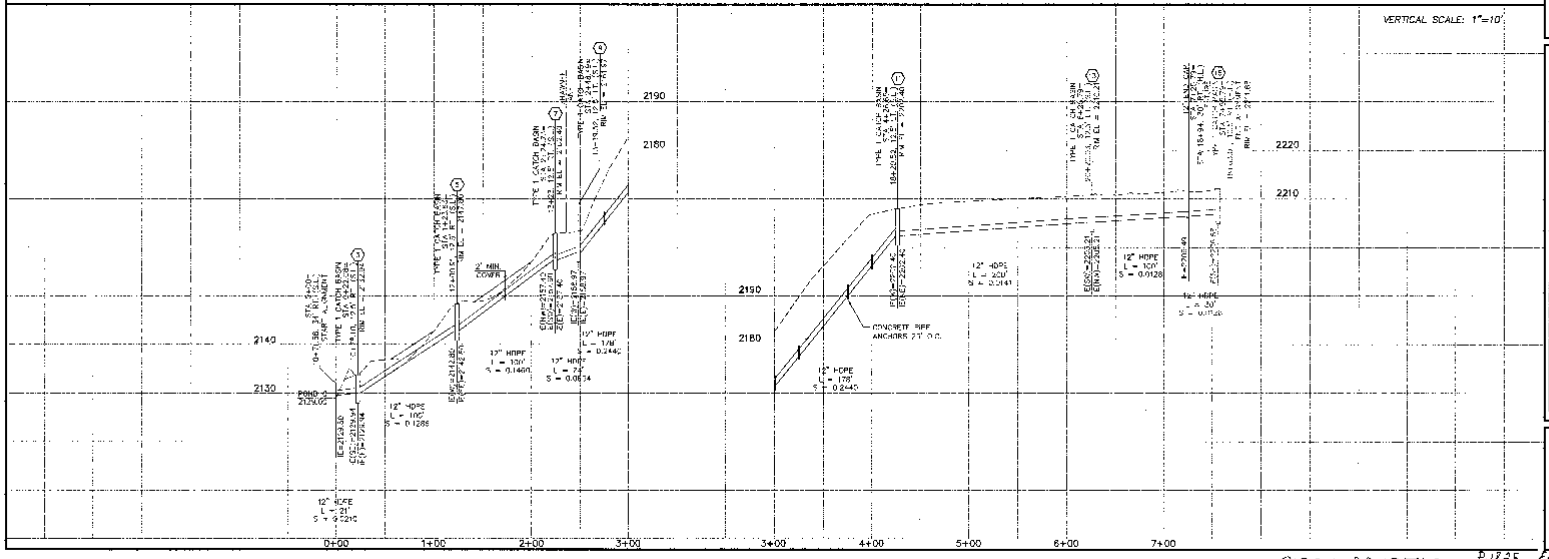
GRAPHIC SCALE
(IN FEET)
1 INCH = 50 FT

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 8-15-01
ACCEPTANCE EXPIRES: 8-15-03
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
THIS PROJECT HAS BEEN CONSTRUCTED TO COUNTY ACCEPTANCE AND CONTAINS WITHIN THE ROADS AND DRAINAGE FACILITIES FOR WHICH PERMITS REQUIRED: (509) 477-3600
NOTIFY PRIOR TO PUBLIC ROAD BUSINESS (509) 477-3600
P-1825 CONSTRUCTION

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 8-15-01
ACCEPTANCE EXPIRES: 8-15-03
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
THIS PROJECT HAS BEEN CONSTRUCTED TO COUNTY ACCEPTANCE AND CONTAINS WITHIN THE ROADS AND DRAINAGE FACILITIES FOR WHICH PERMITS REQUIRED: (509) 477-3600
NOTIFY PRIOR TO PUBLIC ROAD BUSINESS (509) 477-3600
P-1825 CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 7/2/01

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

10 OF 12
Sheet Number

P1825-PP-10.TIF P.1825 Eng. Road & Drainage

CONSTRUCTION NOTES:

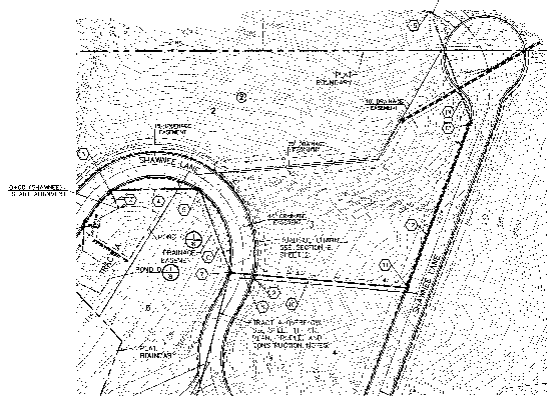
NOTE: ALL STATIONS REFER TO THE ON-SITE DRAINAGE ALIGNMENT.

1. NOT USED
2. [illegible] LF. OF 12" H.D.P.E. STORM PIPE.
3. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
4. [illegible] LF. OF 12" H.D.P.E. STORM PIPE.
5. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
6. [illegible] LF. OF 12" H.D.P.E. STORM PIPE.
7. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
8. [illegible] LF. OF 12" H.D.P.E. STORM PIPE.
9. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
10. [illegible] LF. OF 12" H.D.P.E. STORM PIPE WITH CONCRETE PIPE ANCHORS PER SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT.
11. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
12. [illegible] LF. OF 12" H.D.P.E. STORM PIPE.
13. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.
14. [illegible] LF. OF 12" H.D.P.E. STORM PIPE WITH 2" END CAP.
15. FUTURE
    STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND WATER QUALITY FILTRATION CARTRIDGE SPECIFIED IN PLANS B-4, B-7, B-8, B-9 AND B-10.

DATUM

[illegible]

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

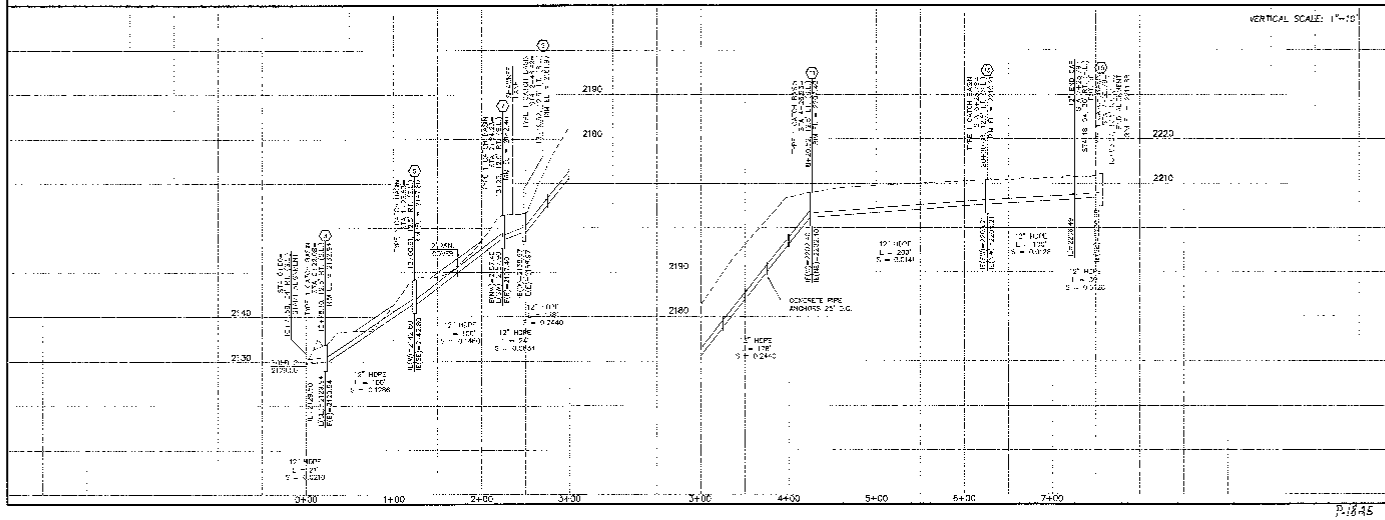
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # [illegible]
DATE ACCEPTED [illegible]
ACCEPTANCE EXPIRES [illegible]
PROJECT LAND USE PLAN/C [illegible]
PROJECT LAND USE PLAN/FINAL [illegible]

DEVELOPER'S APPROVAL

2/7/01
DATE

VERTICAL SCALE: 1"=10'



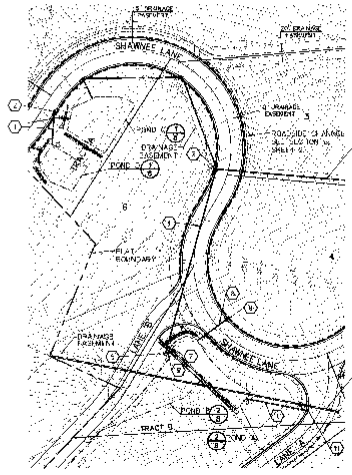
STREET CONSTRUCTION PLANS

SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

P-1845 Eng Rec'd w/Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



DATUM

CONSTRUCTION NOTES:

NOTE: ALL STA. KNOWN ALONG CENTERLINE, DRAINAGE ALIGNMENTS (CURVES/SPIRALS) STATIONS SHOWN ON THE PROFILES.

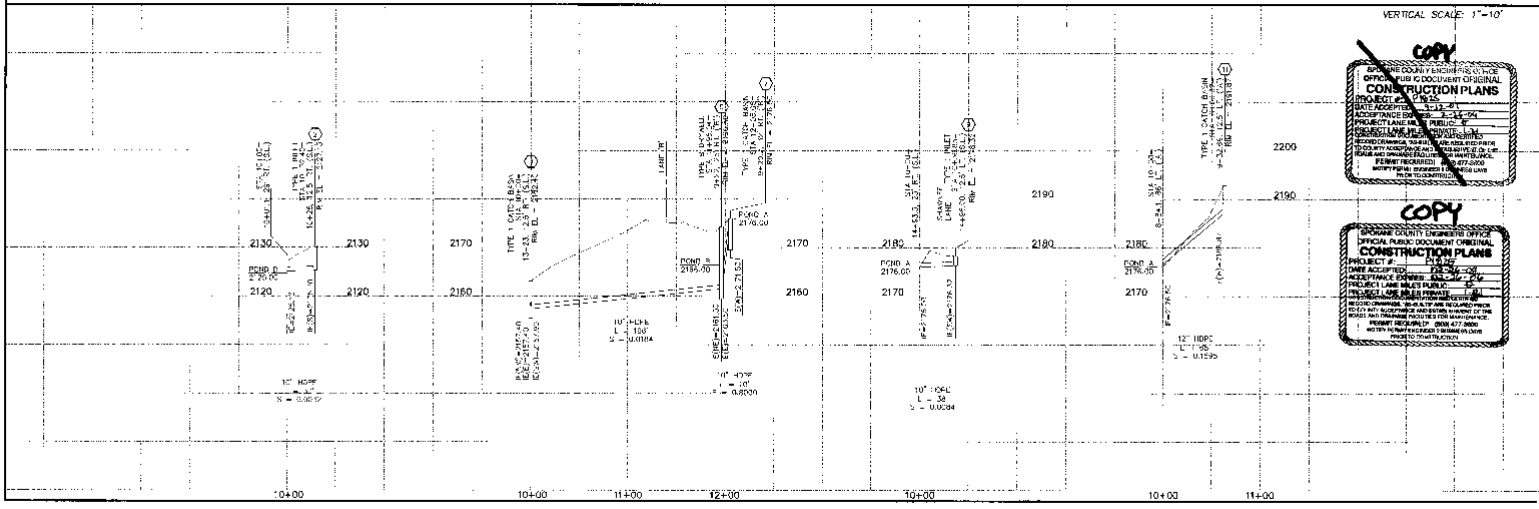
1. 33 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0052, IE(N)=2125.30, IE(S)=2125.13.
2. STA. 14+32.40 TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-5, B-10, B-12, B-17 AND B-18. TC ELEV=2197.23, RIM ELEV=2197.13
3. STA. 16+28, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-9, B-12, B-17 AND B-18. TC ELEV=2192.85, RIM ELEV=2192.40
4. 106 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0184, IE(N)=2177.30, IE(S)=2175.20.
5. STA. 14+98, TYPE 1 DRYWELL WITH TYPE 1 MIL A FRAME AND SOLID COVER PER SPOKANE COUNTY STANDARD PLANS B-1a AND B-11. RIM ELEV=2194.50.
6. 33 L.F. OF 10" H.D.P.E. STORM PIPE. S=0.0009 IE(E)=2177.50, IE(W)=2177.50
7. STA. 12+06.55, TYPE 1 CATCH BASIN WITH TYPE 2 METAL FRAME AND GRATE, AND SOLID COVER PER SPOKANE COUNTY STANDARD PLANS B-4, B-1, B-13 AND B-7. RIM ELEV=2178.50
8. 45 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0061 IE(N)=2176.32, IE(S)=2176.32.
9. STA. 12+36.85, TYPE 1 CONCRETE INLET WITH 30" 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-5, B-10, B-12, B-17 AND B-18. TC ELEV=2178.33, RIM ELEV=2178.23.
10. 65 L.F. OF 12" H.D.P.E. STORM PIPE. S=0.0061 IE(N)=2176.67, IE(S)=2176.61
11. STA. 12+63.32, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-1, B-13 AND B-7. TC ELEV=2182.73, RIM ELEV=2181.87.

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-17125
DATE ACCEPTED: 04-13-01
ACCEPTANCE EXPIRES: 04-13-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.81
RECORD DRAWINGS WERE NOT PREPARED
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT RECORDED 06-07-2001
NOTIFY PERMIT ENGINEER 24 HOURS BEFORE CALLING PAGER TO TOTAL INSPECTION

DEVELOPER'S APPROVAL — DATE 9/7/01

VERTICAL SCALE: 1"=10'



COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-17125
DATE ACCEPTED: 5-13-01
ACCEPTANCE EXPIRES: 5-13-02
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0
RECORD DRAWINGS WERE NOT PREPARED
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT RECORDED 06-07-2001
NOTIFY PERMIT ENGINEER 24 HOURS BEFORE CALLING PAGER TO TOTAL INSPECTION

COPY
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-17125
DATE ACCEPTED: 02-04-04
ACCEPTANCE EXPIRES: 02-04-06
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 0.81
RECORD DRAWINGS WERE NOT PREPARED
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT RECORDED 06-07-2001
NOTIFY PERMIT ENGINEER 24 HOURS BEFORE CALLING PAGER TO TOTAL INSPECTION

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

CLD Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying
CLD ASSOCIATES, INC.
PROFESSIONAL ENGINEER
STATE OF WASHINGTON
9-7-01
SIGNATURE 9/7/01
REVISED 9/7/01

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. PORTER, P.E.
REGISTRATION NO. 37481
FOR AND ON BEHALF OF
CLD ASSOCIATES, INC.

04/13/01	ORIGINAL ISSUE-NOTICE
09/07/01	SPOKANE COUNTY REVIEW COMMENTS

Drawn By:	
Checked By:	
Date:	
Scale:	1"=30'
Section No.	
Sheet No.	

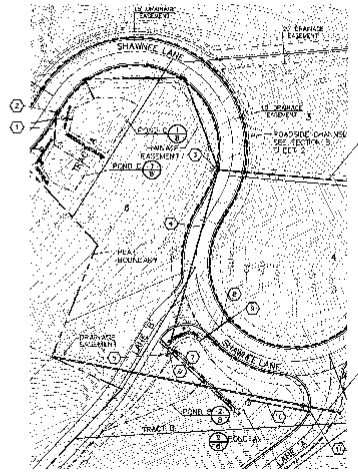
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

11 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



CONSTRUCTION NOTES:

NOTE: ALL STATIONS REFER TO THE DRAINAGE A ALIGNMENT, CORRESPONDING STREET STATIONS SHOWN ON THE PROFILES.

1. 39 L.F. OF 10" H.D.P.E. STORM PIPE, S=.0400, E(IN)=2125.30, E(OUT)=2123.13.
2. STA 10+33.40, TYPE 1 CONCRETE INLET W/ 3H TYPE 1 METAL FRAME AND GRATE, AND STA 1, USING THE SPOKANE COUNTY STANDARD PLANS B-3, B-12, B-17 AND B-18. TC ELEV=2127.73, RIM ELEV=2127.12.
3. STA 10+00, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-17 AND B-18. TC ELEV=2182.90 HW LL=2182.90
4. 195 L.F. OF 12" H.D.P.E. STORM PIPE, S=.0104, E(IN)=2157.50, E(OUT)=2151.50.
5. STA 11+38, TYPE B (HYBRID WITH TYPE 4 METAL FRAME AND SOLID COVER) PER SPOKANE COUNTY STANDARD PLANS B-10 AND B-15. RIM ELEV=2158.50.
6. 10 L.F. OF 10" H.D.P.E. STORM PIPE, S=.0500, E(UP)=2170.50, E(DN)=2162.50
7. STA 12+05.05, TYPE 1 CATCH BASIN WITH TYPE 3 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-11, B-13 AND B-17. RIM ELEV=2178.00.
8. 36 L.F. OF 10" H.D.P.E. STORM PIPE, S=.0 0594, E(IN)=2179.32, E(OUT)=2179.32.
9. STA 12+38.85, TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-3, B-10, B-12, B-17 AND B-18. TC ELEV=2178.95, RIM ELEV=2178.32.
10. 85 L.F. OF 12" H.D.P.E. STORM PIPE, S=0.0054, E(UP)=2158.57, E(DN)=2179.56.
11. STA 12+53.32, TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-4, B-7, B-10, B-17 AND B-18. TC ELEV=2182.45, RIM ELEV=2179.27.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

Expires 3/31/2004

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 01-13-03
DATE ADOPTED: 01-13-03
ACCEPTANCE EXPIRES: 01-13-05
PROJECT LANE MILES PUBLIC: 0
PROJECT LANE MILES PRIVATE: 1.21
CONSTRUCTION PLANS ARE A MINIMUM CERTIFICATE
SHOWN ON DRAWINGS. MODIFICATIONS MAY BE REQUIRED PRIOR TO FINAL ACCEPTANCE. PHONE NUMBER OF THE SPOKANE COUNTY ENGINEERS POSTING TELEPHONE
PERMIT REQUIRED (509) 477-3600
NOTIFY STREET DEPARTMENT 24 HOURS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 2/12/01

Planning
Engineering
Surveying
Architecture
Landscape Architecture
Land Surveying
Associates, Inc.

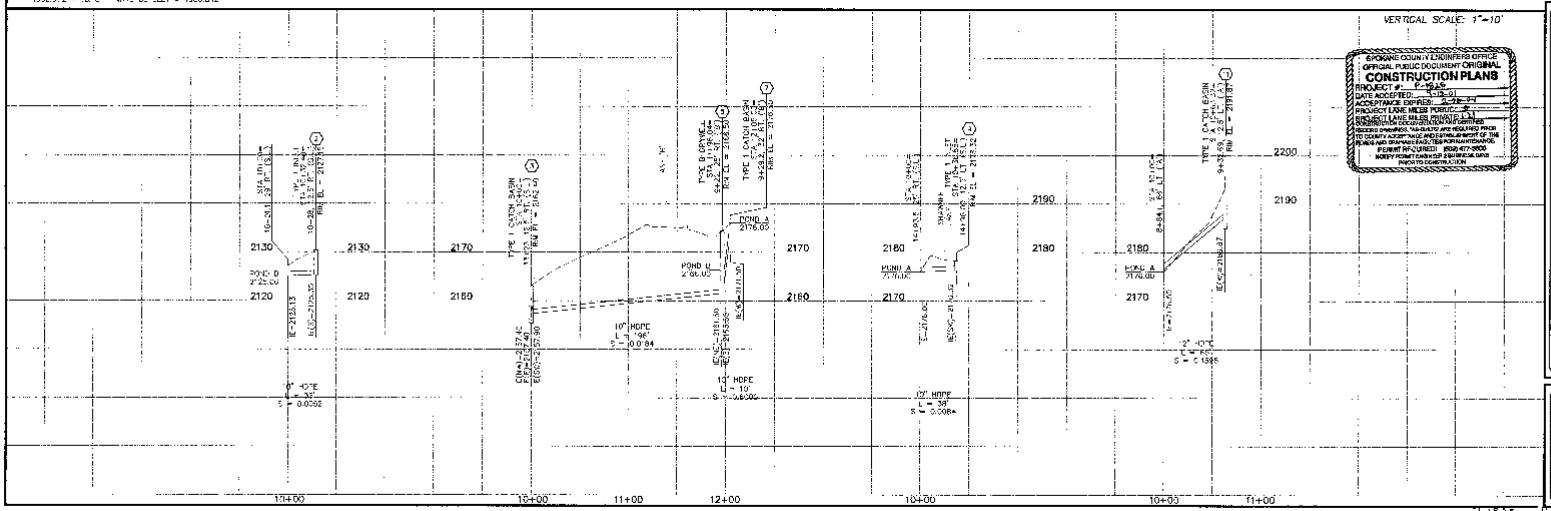
PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON & KOCKEN, P.S.
WASHINGTON REGISTRATION 18-04219-00
FOR AND ON BEHALF OF
CLD ASSOCIATES, INC.

2/12/01	SPOKANE COUNTY SEND COMMENTS
9/26/00	SPOKANE COUNTY SEND COMMENTS
9/14/00	SPOKANE COUNTY SEND COMMENTS

Drawing Set Number: 1825
C.L.D. Job Number: 01-013
Drawn By: NEK
Reviewed By: NAK
Approved By: NAK

DATUM
BASED ON CITY DATUM COORD. NO. 32, N.E. CORNER OF BARKER ROAD & SHAWNEE 13.7' NORTH & 1.2' EAST, GRID ELEVATION 1998.972 – 13.3' = NAVD 88 ELEV = 1963.842

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

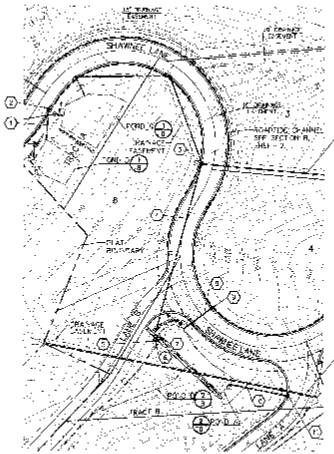
11 OF 12
Sheet Number

P1825-PP-11.TIF

P-1825 Eng. Road + Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



CONSTRUCTION NOTES:

NOTE: ALL ELEVATIONS REFER TO THE DRAINAGE ALIGNMENT, CONSTRUCTION SHEET STATIONS SHOWN ON THE PROFILE.

1. 22 L.F. OF 18" H.D.P.E. STORM PIPE
2. 4 EACH, ELEV=2[illegible]
3. STA. [illegible] TYPE 1 CONCRETE INLET WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]
4. STA. 13+33 TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]
5. [illegible] L.F. OF 12" H.D.P.E. STORM PIPE
6. STA. [illegible] TYPE 1 METAL FRAME AND GRATE PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]
7. 20 L.F. OF 10" H.D.P.E. STORM PIPE. S=0.0064, IE(N)=2[illegible], IE(S)=2[illegible]
8. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 2 METAL FRAME AND GRATE, AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]
9. [illegible] L.F. OF 10" H.D.P.E. STORM PIPE. S=0.0064, IE(N)=2[illegible], IE(S)=2[illegible]
10. STA. [illegible] TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]
11. [illegible] L.F. OF 12" H.D.P.E. STORM PIPE. S=[illegible], IE(N)=2[illegible], IE(S)=2[illegible]
12. STA. [illegible] TYPE 1 CATCH BASIN WITH TYPE 1 METAL FRAME AND GRATE AND GRATE GUARD PER SPOKANE COUNTY STANDARD PLANS B-6, B-10, B-12, B-17 AND B-18. RIM ELEV=2[illegible]

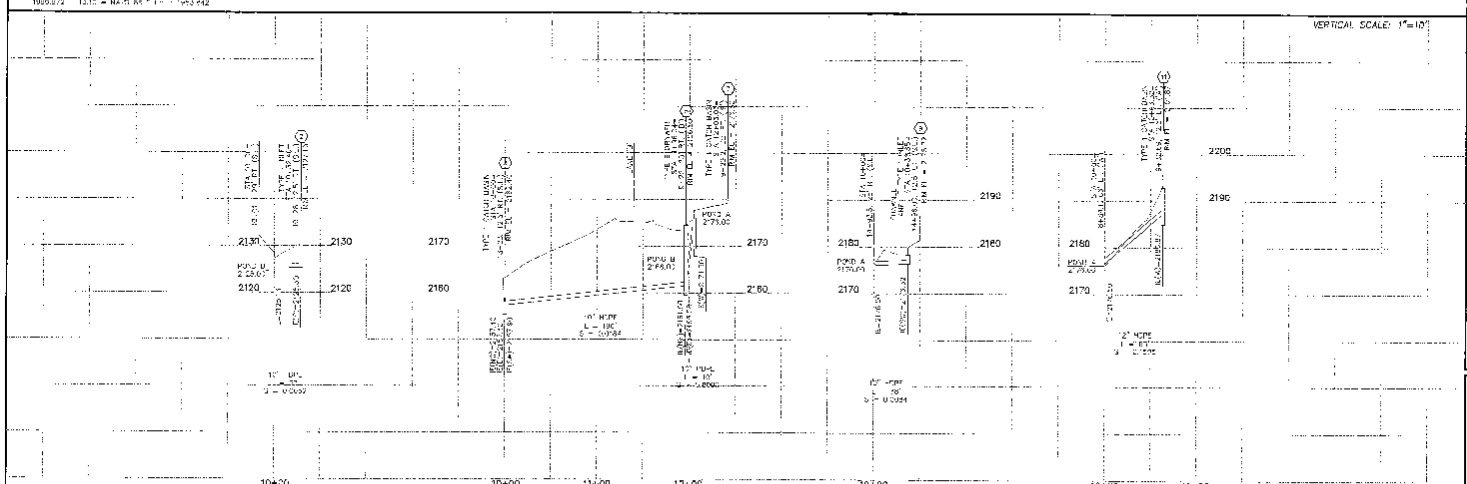
GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # [illegible]
DATE ADOPTED [illegible]
ACCEPTANCE EXPIRES [illegible]
PROJECT LAND USE PLANNER [illegible]
PROJECT ENGINEER [illegible]
PROJECT MANAGER [illegible]
PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 2/2/01

DATUM
BASED ON CITY DATUM, CITY MONUMENT NO. [illegible]
VIA CONNECT OF CARSON ROAD & SHAWNEE
HOT LOCK A 1/2" PIPE, CITY ELEV 10[illegible]
1988.0/2 [illegible] = NAVD 88 [illegible]

VERTICAL SCALE: 1"=10'



STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
ON-SITE DRAINAGE
SPOKANE COUNTY, WASHINGTON

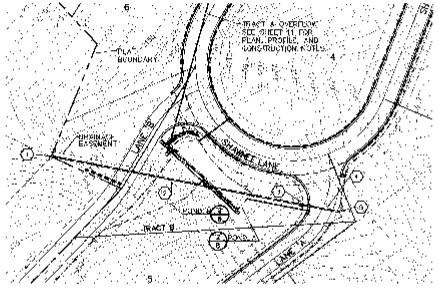
Sheet Title
STORM DRAIN PLAN AND PROFILE

11 OF 12
Sheet Number

7-1825 Eng. Road • Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000



GRAPHIC SCALE
50 0 25 50 100
(2 INCH)
IN = 50 FT.

CONSTRUCTION NOTES:

NOTE: ALL STATIONS REFER TO THE BY-PASS CULVERT ALIGNMENTS. CORRESPONDING STREET STATIONS SHOWN ON THE PLAN.

1. CONCRETE HEADWALL AT CULVERT OUTLET, PER DETAIL 2, SHEET 8.
7. 260 L.F. OF 18" H.D.P.E. STORM PIPE S=0.0385, E(E)=2175.40, E(S)=2140.00.
3. SITA 2-48" SIDEWALK 48" PIPE 2 CATCH BASIN WITH MANHOLE RING AND COVER PER STANDARD PLAN R-1, RIM ELEV=2190.00.
4. 40 L.F. OF 18" HDPE STORM PIPE S=0.1376, E(E)=2192.00, E(S)=2190.00.
5. CONCRETE HEADWALL AT CULVERT INLET PER DETAIL 3, SHEET 8.

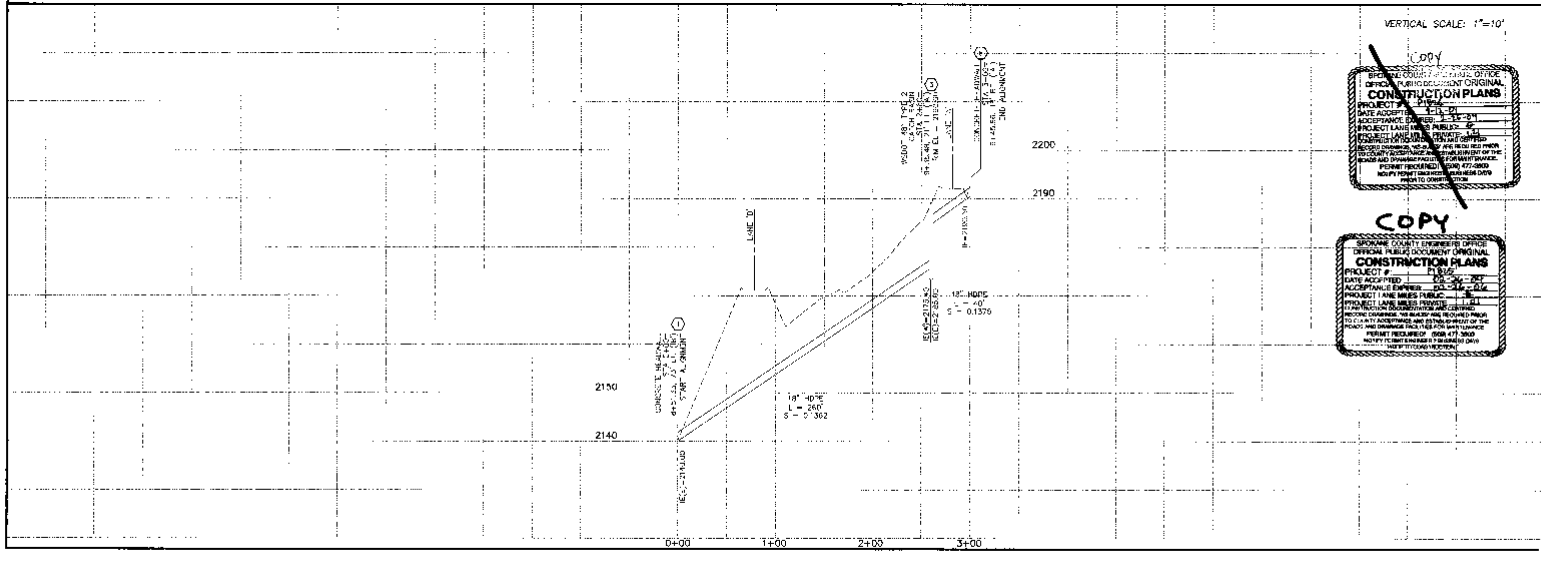
COPY

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2196
DATE ACCEPTED 04-13-01
ACCEPTANCE EXPIRES 03-13-03
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, NOT REQUIRED FROM DEVELOPER WERE RECEIVED FROM THE ROAD AND DRAINAGE DIVISION
PERMIT REQUIRED (509) 477-3600
NO PPT PERMIT ISSUED PRIOR TO DATE
PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL — DATE 9/12/01

DATUM
BASED ON CITY OF SPOKANE, C.O.M. NO. 32,
N.E. CORNER OF SECTION 10 & 11 T.26N., R.42E.,
19.7 FEET SOUTH OF THE CENTERLINE OF
1995.972 - 3.0 - N43°05'05"E - 28.3417

VERTICAL SCALE: 1"=10'



COPY

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2196
DATE ACCEPTED 04-13-01
ACCEPTANCE EXPIRES 03-13-03
PROJECT LANE MILES PUBLIC 0
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, NOT REQUIRED FROM DEVELOPER WERE RECEIVED FROM THE ROAD AND DRAINAGE DIVISION
PERMIT REQUIRED (509) 477-3600
NO PPT PERMIT ISSUED PRIOR TO DATE
PRIOR TO CONSTRUCTION

COPY

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2196
DATE ACCEPTED 04-13-01
ACCEPTANCE EXPIRES 03-13-03
PROJECT LANE MILES PUBLIC 0
PROJECT LANE MILES PRIVATE 1.31
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, NOT REQUIRED FROM DEVELOPER WERE RECEIVED FROM THE ROAD AND DRAINAGE DIVISION
PERMIT REQUIRED (509) 477-3600
NO PPT PERMIT ISSUED PRIOR TO DATE
PRIOR TO CONSTRUCTION

Gardner, Inc.
Planning
Engineering
Surveying
Construction Management
and Services

PREPARED UNDER THE DIRECT SUPERVISION OF
NELSON W. COREN, P.E.
WASHINGTON REGISTRATION
NO. 37401
FOR AND ON BEHALF OF
GLC ASSOCIATES INC.

REVISIONS	
05/08/01	ORIGINAL PUBLICATION
06/04/01	SPOKANE COUNTY REVIEW COMMENTS

Date: Mar 7, 1995
Scale: 1"=10'
Drawn by: MJ
Checked by: NWC
Job No.: 1231

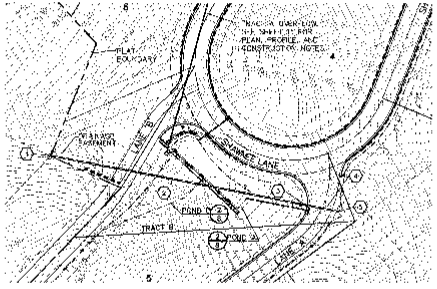
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
BY-PASS CULVERT
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN
PLAN AND
PROFILE

12 OF 12
Sheet Number

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-6000



GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft

CONSTRUCTION NOTES:

NOTE: ALL STATIONING SHOWN TO BE BY-PASS CULVERT ALIGNMENTS. CORRESPONDING STREET STATIONING IS SHOWN ON THE PROFILE.

1. CONCRETE HEADWALL AT CULVERT OUTLET, SEE DETAIL 3, SHEET 6.
2. 286 L.F. OF 18" H.D.P.E. STORM PIPE. S=0.1362, IE(E)=2175.43, IE(S)=2140.00.
3. STA 2+62, WSDOT 48" TYPE 2 CATCH BASIN, WITH MANHOLE RING AND COVER PER STANDARD PLAN B-1a HM LLLY-2196.00
4. 43 L.F. OF 18" H.D.P.E. STORM PIPE. S=0.1375, IE(E)=2166.93, IE(W)=2160.50
5. CONCRETE HEADWALL AT CULVERT INLET, PER DETAIL 3, SHEET 6.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # F-825
DATE ACCEPTED 8-16-01
ACCEPTANCE EXPIRES 8-16-03
PROJECT LANE MILES PUBLIC 0
PROJECT LANE MILES PRIVATE 1.21
REQUIRED ON-SITE DRAINAGE EASEMENTS
PROVIDED ENGINEER VISUALLY INSPECTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF SITE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NORTH MEADOWS FIRE STATION 9 (509) 456-3554
PRIOR TO CONSTRUCTION

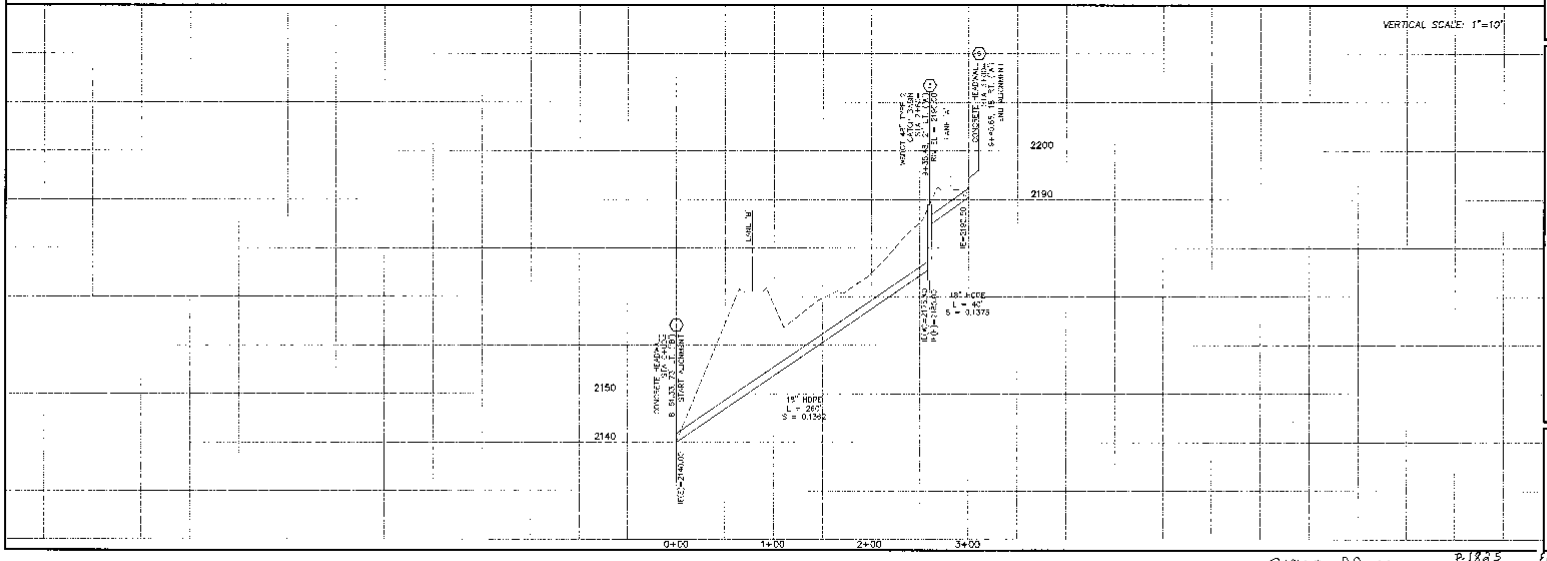
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # F-825
DATE ACCEPTED 8-16-01
ACCEPTANCE EXPIRES 8-16-03
PROJECT LANE MILES PUBLIC 0
PROJECT LANE MILES PRIVATE 1.21
REQUIRED ON-SITE DRAINAGE EASEMENTS PROVIDED ENGINEER VISUALLY INSPECTED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF SITE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NORTH MEADOWS FIRE STATION 9 (509) 456-3554
PRIOR TO CONSTRUCTION

9-17-01

DEVELOPER'S APPROVAL 9/7/01 DATE

DATUM
BASED ON CITY DATUM, CEN. NO. 32
N.E. CORNER OF ARRONDEE & SHAWNEE
(0.17' NNC & 1.21' SCC) CITY ELEVATION
1999.512 - 13.13 = NAVD 88 ELEV = 1982.382

VERTICAL SCALE: 1"=10'



Associates, Inc.
Planning
Engineering
Architecture
Landscape Architecture
Land Surveying

PREPARED UNDER THE DIRECT SUPERVISION OF
WILLIAM H. DEMING, P.E.
WASHINGTON REGISTRATION
NO. 17202
FOR AND ON BEHALF OF
CLO ASSOCIATES, INC

Scale: Horizontal 1"=50'
Vertical 1"=10'
Date: 08/16/01 SPOKANE COUNTY REVIEW COMMENTS

Job No. 1825
File No. 1825
Date: 9/01
Designed By: WHD
Checked By: WHD

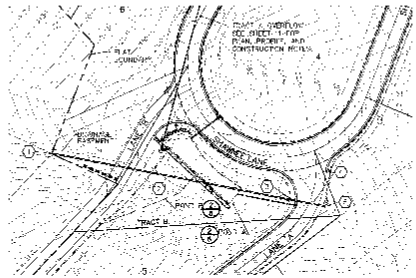
STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
BY-PASS CULVERT
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

12 OF 12
Sheet Number

P1825-PP-12.TIF P.1825 Eng. Road Drainage

SEC. 14, T.26 N., R.42 E.,W.M.
SPOKANE COUNTY, WASHINGTON



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

GRAPHIC SCALE
0 10 20 30 40
(IN FEET)
1 inch = 20 ft.

CONSTRUCTION NOTES:

NOTE: ALL STATIONS REFER TO THE BY-PASS CULVERT ALIGNMENTS, CORRESPONDING STREET STATIONS SHOWN ON THE PROFILE.

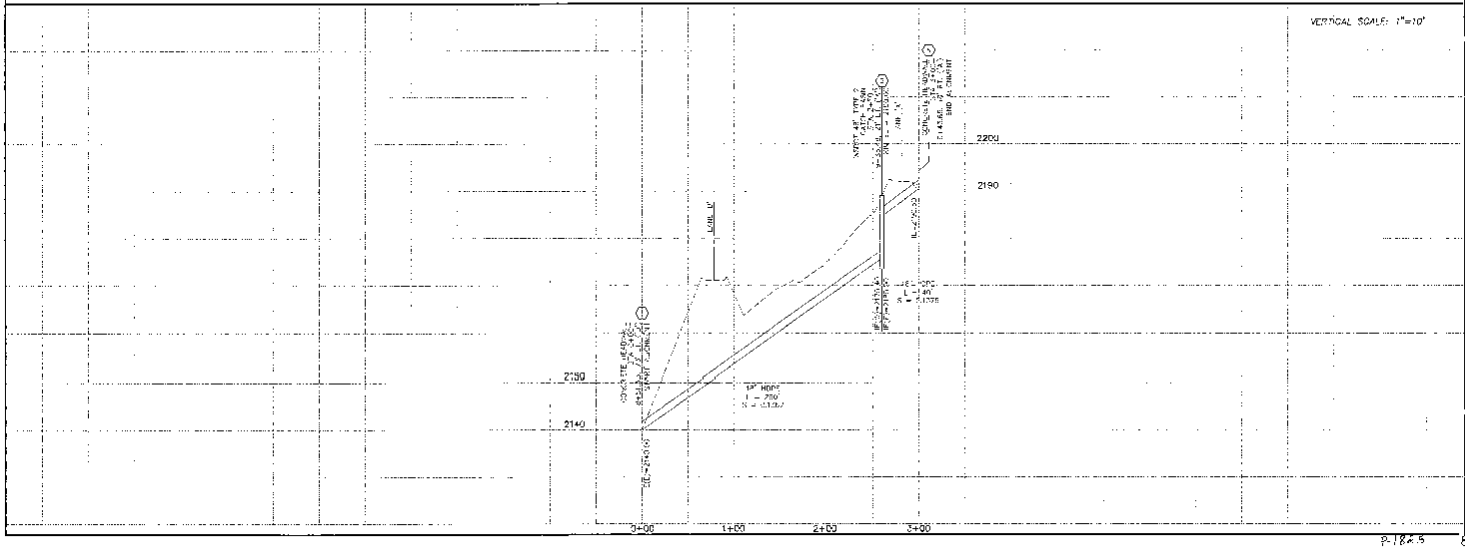
1. CONCRETE HEADWALL AT CULVERT OUTLET, PER DETAIL 3, SHEET 8.
2. 200 L.F. OF 18" H.D.P.E. STORM PIPE. S=0.0200, IE(C)=2175.40, E(S)=2170.00.
3. 514 [illegible] AND MODIFIED [illegible] AND [illegible] FOR E.L.=2170.00.
4. [illegible] OF 18" H.D.P.E. STORM PIPE. S=0.0375, IE(C)=2180.40, E(S)=2170.00.
5. CONCRETE HEADWALL AT CULVERT INLET, PER DETAIL 3, SHEET 8.

SPOKANE COUNTY LAND USE OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1825
DATE ACCEPTED: 09-12-01
ACCEPTANCE EXPIRES: 09-12-03
PROJECT LAND USE PLANNER: [illegible]
PROJECT LAND USE PLANNER TITLE: [illegible]

DEVELOPER'S APPROVAL 9/7/01 DATE

DATUM
[illegible]

VERTICAL SCALE: 1"=10'



P-1825

STREET CONSTRUCTION PLANS
SHAWNEE CANYON ESTATES
STREET AND STORM DRAINAGE
BY-PASS CULVERT
SPOKANE COUNTY, WASHINGTON

Sheet Title
STORM DRAIN PLAN AND PROFILE

12 OF 12
Sheet Number

Eng. Road Drainage