STREET IMPROVEMENT PLANS

BARKER ROAD

SPOKANE COUNTY, WASHINGTON

SW 1/4 SECTION 20, T. 25 N., R. 45 E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	CONCRETE	
	BUILDINGS & STRUCTURES	
	MONUMENT	
	SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
	FIRE HYDRANT	
	SERVICE	
	METER	
	BLOWOFF	
	AIR VACUUM RELIEF STATION	
	DRAINAGE	
	DRAINAGE LINE	
	MANHOLE	
	INFIWELL	
	CATCH BASIN	
	DITCH	
	GAS	
	GAS LINE	
	VALVE	
	METER	
	TELE-POWER	
	BURIED TELEPHONE	
	POWER OR TELEPHONE POLE	
	GUY WIRE	
	TRANSFORMER PAD	
	TELEPHONE RISER	
	TELEPHONE VAULT	
	OVERHEAD POWER	
	GUY ANCHOR	
	POWER VAULT	
	LIGHT POLE	

AGENCIES

WATER
CONSOLIDATED MNG. DIST. #9
NORTH 130 GREENACRES ROAD
SPOKANE VALLEY, WA 99016
PHONE: 509-924-3855
FAX: 509-924-3856
CONTACT: SHANE SHEPPARD

FIRE
SPOKANE VALLEY FIRE DEPT.
2120 NORTH WALNUT ROAD
SPOKANE VALLEY, WA 99206
PHONE: 509-928-1700
FAX: 509-928-1701
CONTACT: TRAD HARNICK

HEALTH
SPOKANE REGIONAL HEALTH
1101 WEST COLLEGE AVENUE
SPOKANE, WASHINGTON 99201
PHONE: 509-324-1560-1
FAX: 509-324-1464
CONTACT: TERI COPLEY

SEWER
SPOKANE COUNTY UTILITIES
1026 WEST BROADWAY
SPOKANE, WASHINGTON 99260
PHONE: 509-477-7285
FAX: 509-477-7289
CONTACT: CHRIS HANSON

STREETS
SPOKANE COUNTY
1026 WEST BROADWAY AVE
SPOKANE, WASHINGTON, 99260
PHONE: 509-477-7280
FAX: 509-477-7639
CONTACT: MATT ZARECOR, P.E.

BUILDING OFFICIAL
SPOKANE COUNTY BLDG & PLAN
1026 WEST BROADWAY AVE.
SPOKANE, WASHINGTON, 99260
PHONE: 509-477-3675
FAX: 509-477-4703E
CONTACT: JOHN PEDERSON

CABLE
COMCAST BROADBAND-1717
EAST BUCKEYE SPOKANE,
WASHINGTON, 99207
PHONE: 509-755-7217
FAX: 509-755-4863
CONTACT: BRYAN RICHARDSON

GAS / POWER
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WASHINGTON 99220
PHONE: 509-495-8500
FAX: 1-509-495-8734
CONTACT: LUANN WEINGER

TELEPHONE
CENTURY LINK
904 NORTH COLUMBUS
SPOKANE, WASHINGTON, 99202
PHONE: 509-464-3044
FAX: 509-466-2104
CONTACT: KEVIN GOLTZ

SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-468-9400

INSPECTION
SPOKANE COUNTY
2530 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-200-6362
FAX: 509-926-0227
CONTACT: PAUL NELSON, P.E.

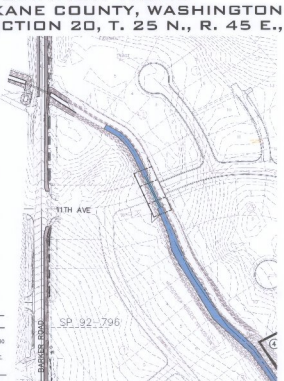
SURVEYOR
WHITE & BOLLINGER ENGINEERS
2530 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2017
FAX: 509-926-0227
CONTACT: JON GORDON, PLS.

ENGINEERING
WHITE & BOLLINGER ENGINEERS
2530 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2017
FAX: 509-926-0227
CONTACT: TODD WHIPPLE, P.E.

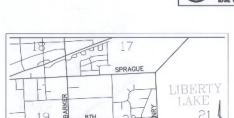
OWNER/DEVELOPER
BARKER ROADER
MR. BLACK
107 S. HOWARD STREET, ST. 500
SPOKANE, WASHINGTON 99201
PHONE: 509-622-3562
FAX: 509-622-3563
CONTACT: BRYAN WALKER

ABBREVIATIONS

ATC	LEN.	ATCH.	LNTH	GRADE BREAK	PRC	POINT OF REVERSE CURVE
BCR		BEGINNING OF CURVE RADIUS	FT.,FT.	FEET PER FOOT	PT	POINT OF TANGENCY
BDRY		BOUNDARY	HYD.	HYDRANT	RIM EL	RIM ELEVATION
CO.		SEWER CLEANOUT	I.E.	INVERT ELEVATION	RD	ROAD
CSTC		CRUSHED STONE	LN	LANE	RW	RIGHT OF WAY
		TOP COURSE	LT	LEFT	SI	STREET INTERSECTION
CT.		COURT	MH	MANHOLE	SS	SANITARY SEWER
DIA.		DIAMETER	MCR	MIDDLE OF CURVE RADIUS	STA	STATION
ECR		END OF CURVE RADIUS	PC	POINT OF CURVATURE	STA. LEN.	STATION LENGTH
EX.		EXISTING	PCC	PORTLAND	TC	TOP OF CURB
G		GRADE	PI	POINT OF INTERSECTION		



SITE PLAN
1"=100'



VICINITY MAP

SHEET INDEX

SHEET C0.0	COVER SHEET
SHEET C0.1	NOTES
SHEET C0.2	TYPICAL SECTIONS
SHEET C1.0	TOPOGRAPHIC SURVEY
SHEET C3.0	BARKER ROAD 14+00 TO 21+50
SHEET C3.1	BARKER ROAD 21+50 TO 27+00
SHEET C3.2	BARKER ROAD 27+00 TO 34+00
SHEET C3.3	CROSSING DETAILS
SHEET C3.4	WALL DETAILS
SHEET C3.5	GUARDRAIL DETAILS
SHEET C4.0	BARKER ROAD STRIPING PLAN
SHEET C9.0	EROSION CONTROL COVER
SHEET C9.1	EROSION CONTROL NOTES
SHEET C9.2	EROSION CONTROL DETAILS
SHEET C9.3	EROSION CONTROL DETAILS

* Subject to issuance of Floodplain Development Permit & ROW Permit prior to start of work.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 15-1393
DATE ADOPTED 09-12-17
PROJECT LENGTH 1,450 LF 0.27 MI
PROJECT LANE MILES PUBLIC .55
PROJECT LANE MILES PRIVATE .55
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS SHALL BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND OWNERSHIP OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE PURPOSES
VERIFY PROJECT DRAWING & NUMBER WITH COUNTY PROJECT MANAGER

SHEET
C0.0
JOB NUMBER
15-1393

NAVD 88 DATUM
BASED ON FOUND BRASS CAP, 0.2' FOR
SPOKANE COUNTY CONTROL MONUMENT
COMPLETION PACKAGE NO. 4, SHEET 16
OF 29, BY MOONY ENGINEERING, INC.
ELEVATION = 2338.16

SCALE:	PROJ #: 15-1393	CIVIL
HORIZONTAL: 1"=100'	DATE: 09/22/15	STRUCTURAL
VERTICAL: N/A	DRAWN: CEL	WATER
	REVIEWED: TRW	SEWER
		PETROLEUM
		OTHER

NO.	DATE	BY	REVISION
0	09/22/15	RJH	ORIGINAL PREPARATION

WCE
WHITE CRAIG WHITE BAUER
CONSULTING ENGINEERS
2530 N. SULLIVAN ROAD
P.O. BOX 29 SPOKANE VALLEY, WA 99037-0029

BARKER ROAD IMPROVEMENTS
COVER SHEET
BARKER ROAD
GREENACRES, WA

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH SPOKANE COUNTY AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY SPOKANE COUNTY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS, PRIOR TO INSTALLATION.
A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO SPOKANE COUNTY INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY SPOKANE COUNTY.

BASED ON REQUIREMENTS FROM SPOKANE COUNTY, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO SPOKANE COUNTY ENGINEER.

18. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.

19. ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 509-477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOOD PLAINS, DESIGNATED DRAINAGE WAYS, ETC.

20. THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT SHOULD A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS ETC. DETERMINED TO BE PART OF THE OVERALL PROJECT, INCLUDING BUT NOT LIMITED TO THE ARCHITECTURAL PLANS, MECHANICAL PLANS, ELECTRICAL PLANS, LANDSCAPE PLANS, GENERAL SPECIAL PROVISIONS, ETC., THAT WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER, OWNER OR OTHER PROFESSIONAL DURING THE BIDDING PROCESS, THAT IN ALL INSTANCES THE CONTRACTOR WILL BE REQUIRED TO BID THE HIGHER STANDARD. FAILURE TO DO SO MAY RESULT IN THE HIGHER STANDARD BEING REQUIRED BY THE OWNER, ENGINEER OR OTHER PROFESSIONAL WITH NO CHANGE IN VALUE TO THE CONTRACT VIA CHANGE ORDER OR OTHER MECHANISM.

21. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

22. DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONSTRUCT TO THESE PLANS IN LIEU OF FIELD STAKING. SHOULD INCONSISTENCIES BE APPARENT, THE CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER, AND SURVEYOR TO RECTIFY THE DISCREPANCY PRIOR TO CONSTRUCTION EFFORT BEING APPLIED.

GENERAL GRADING NOTES

1. CONTOURS AND / OR ELEVATIONS SHOWN ARE FOR FINISHED PAVING, SIDEWALK, SLAB, OR GROUND. ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.

2. ALL DISTURBED AREAS THAT ARE UNSURFACED OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

3. IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.

4. UNLESS OTHERWISE SHOWN, NO PROPOSED SLOPE SHALL EXCEED THREE (3) HORIZONTAL TO ONE (1) VERTICAL. ALL SLOPED AREAS MUST BE PROTECTED FROM EROSION.

5. IF STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS ARE STOCKPILED ON THE SITE, TOPSOIL MAY BE PLACED TO A HEIGHT OF FIVE FEET. SILT FENCE SHALL BE PLACED AROUND THE BASE OF THE STOCKPILE AND THE STOCKPILE SHALL BE SEEDED WITH NATIVE SEED MIX IMMEDIATELY AFTER STRIPPING OPERATIONS ARE COMPLETE.

6. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB, GUTTER, AND UTILITIES.

7. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCH MARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

8. ALL UTILITIES (MANHOLES, VALVE CONTROL, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.

9. GRADES WITHIN ASPHALT PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. ALL CURBS SHALL BE BUILT IN ACCORDANCE TO THE PLAN. CURBS OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

10. SPOT ELEVATIONS REPRESENT FLOW LINE OR TOP OF ASPHALT UNLESS OTHERWISE NOTED.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.

12. WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACEMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPES AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER POURED WITHOUT THE APPROVAL OF THE ENGINEER.

13. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.

14. PRE CAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.

15. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIR AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

16. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.

17. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

18. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

19. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

20. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

21. ALL UNSURFACED AREA DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL PLACE SOD OR HYDROSEED DISTURBED AREAS IN ACCORDANCE WITH CITY/COUNTY SPECIFICATIONS AND MAINTAINED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

22. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND SHALL BE CONSTRUCTED TO SAME.

23. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.

24. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

25. ENGINEER SHALL BE NOTIFIED WHEN "CURBING STRING LINE" HAS BEEN SET, PRIOR TO CURBING BEING INSTALLED.

STREET GENERAL NOTES

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER, ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, CURRENT EDITION", AND AS AMENDED.

2. 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 SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.

3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, TODD R. WHIPPLE, P.E. @ 893-2617, THE S.I.D./PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, ALLWEST, PAUL T. NELSON, P.E., @ 534-4481 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.

6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUAL, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1a.

7. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.

8. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR UNTIL CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN OUT THE DRYWELL OR CATCH BASIN TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

9. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

10. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.

11. FOR ANY CURB GRADES LESS THAN 0.8 % (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1979A
DATE ACCEPTED 08-19-15
ACCEPTANCE EXPIRES 08-19-17
PROJECT'S LANE MILES PUBLIC .35
PROJECT LANE MILES PRIVATE .0

NAVD 88 DATUM

SCALE:	
HORIZONTAL: N/A	
VERTICAL: N/A	
PROJ #:	15-1393
DATED:	08/20/15
DRAWN:	DEL
REVIEWED:	TRW

ORIGINAL PREPARATION
REVISIONS

WCE

BARKER ROAD IMPROVEMENTS
NOTES
BARKER ROAD
GREENACRES, WA

SHEET
C0.1

JOB NUMBER
15-1393

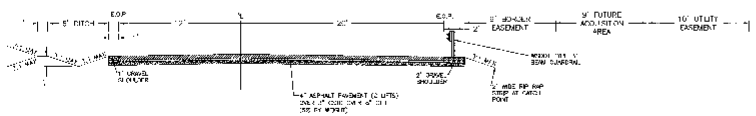
SW¼, SEC.20, T.25N., R.45E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

NOTE: 10' UTILITY EASEMENT ON RIGHT SIDE ADJACENT TO ROW FROM STA 15+21.76 TO 17+13.78.

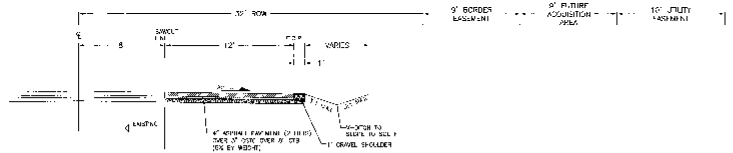
TYPICAL WIDENING SECTION - BARKER ROAD (A)

NOT TO SCALE
STA 14+50 TO 17+13.8'



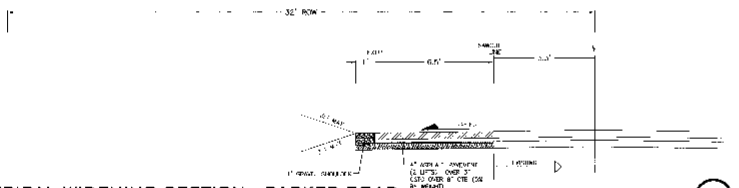
TYPICAL WIDENING SECTION - BARKER ROAD (B)

NOT TO SCALE
STA 17+13.81 TO 21+50.00



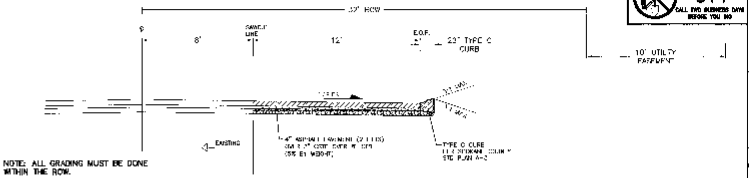
TYPICAL WIDENING SECTION - BARKER ROAD (C)

NOT TO SCALE
STA 21+50 TO 22+41.68



TYPICAL WIDENING SECTION - BARKER ROAD (G)

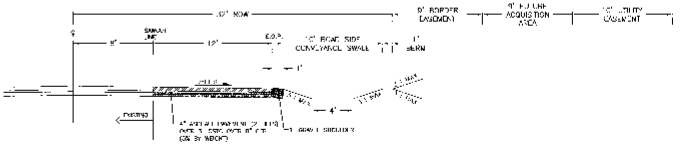
NOT TO SCALE
STA 30+59.77 TO 33+82.94



NOTE: ALL GRADING MUST BE DONE WITHIN THE ROW.

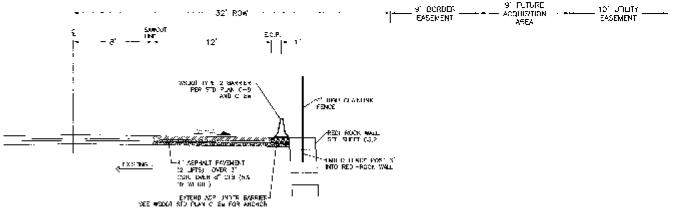
TYPICAL WIDENING SECTION - BARKER ROAD (D)

NOT TO SCALE
STA 22+41.68 TO 24+31.68



TYPICAL WIDENING SECTION - BARKER ROAD (E)

NOT TO SCALE
STA 24+31.68 TO 26+23.24
STA 27+84.99 TO 30+00
STA 31+25.00 TO 33+83.03



TYPICAL WIDENING SECTION - BARKER ROAD (F)

NOT TO SCALE
STA 30+00.00 TO 31+25.00

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 15-1393
DATE ACCEPTED: 08-19-15
ACCEPTANCE EXPIRES: 08-19-17
PROJECTS TAKE MILES: PUBLIC: 0.35
PROJECT LANE MILES: PRIVATE: 0
CONSTRUCTION COMMENCEMENT AND CERTIFICATE RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: [illegible]
NOTIFY PUBLIC WORKS 24 HOURS PRIOR TO CONSTRUCTION

NAVD 88 DATUM
BASED ON HORIZONTAL NO. 62 NAD
SPOKANE VALLEY PATHWAYS PHASE 4
CONSTRUCTION PACKAGE NO. 4 & RFT 5
DECEMBER 2004 BY THOMAS INC
LAND CORP. SAMCO

NO.	DATE	BY	REVISIONS
-	08/22/15	NJH	ORIGINAL PREPARATION

SCALE:		PROJ #:	15-1393
HORIZONTAL:	N.A.	DATE:	08/22/15
VERTICAL:	N.A.	DRAWN:	RMA
		REVIEWED:	TRW

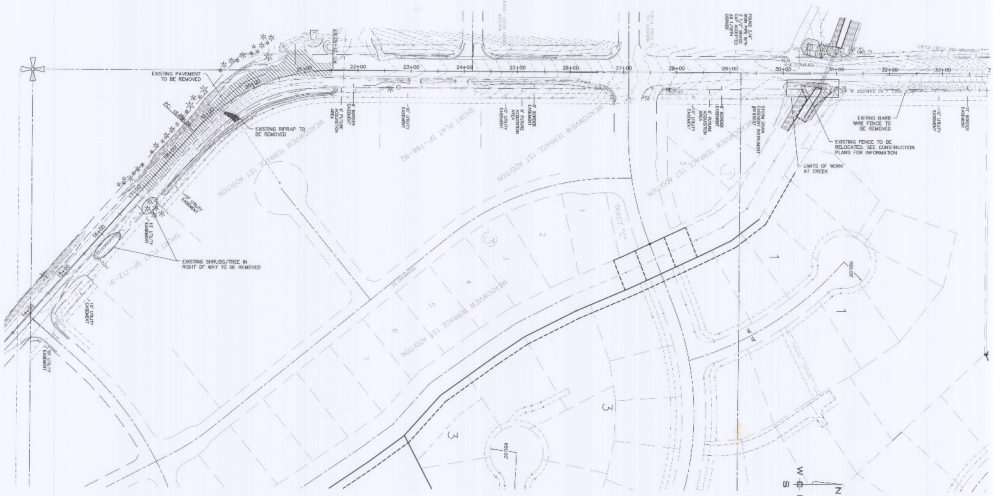
IWCE
INTERWEST CONSULTING GROUP
PLANNING • SURVEYING • ENGINEERING
SPOKANE WA • TOPP WA
115 S. ADAMS • PO BOX 1469

BARKER ROAD IMPROVEMENTS
TYPICAL SECTIONS
BARKER ROAD
GREENACRES, WA

SHEET
C0.2
JOB NUMBER
15-1393

SW¼, SEC.20, T.25N., R.45E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO WORKING DAYS BEFORE YOU DIG



SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 15-1393
DATE ADOPTED 2-2-2018
ACCEPTANCE EXPIRES 2-2-2019
PROJECT LANE MILES PUBLIC 0.25 mi
PROJECT LANE MILES PRIVATE 0 mi
CONSTRUCTION DOCUMENTATION AND QUANTITIES SHOWN HEREON ARE TO BE VERIFIED AND ACCEPTED BY THE SPOKANE COUNTY ENGINEER AS THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE PURPOSES AS PER RCW 36.75.050
NOTE: THIS DOCUMENT IS ORIGINAL WHEN THERE IS NO ENGRAVING

NAVD 88 DATUM
LATITUDE:47.6.42.8(N) 1.83 (0.055)
LONGITUDE:117.15.49.2 (W) 1.83 (0.055)
ORTHOMETRIC HEIGHT:2.2 (0.067) NGVD 29 (1.1) SHIFT 1.5
CF 35, W.SPOKAN PRECINCTS, INC
ELEVATION: 2236.03

1	08/02/18	NJH ORIGINAL PREPARATION
NO.	DATE	BY REVISION

SCALE:
HORIZONTAL: 1"=60'
VERTICAL: N/A

PROJ #:	15-1393
DATE:	06/02/18
DRAWN:	CEL
REVIEWED:	TRW

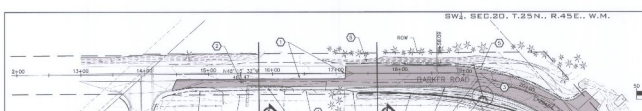
X	PRELIMINARY
	FOR REVIEW
	FOR BID
	FOR CONSTRUCTION
	AS-BUILT

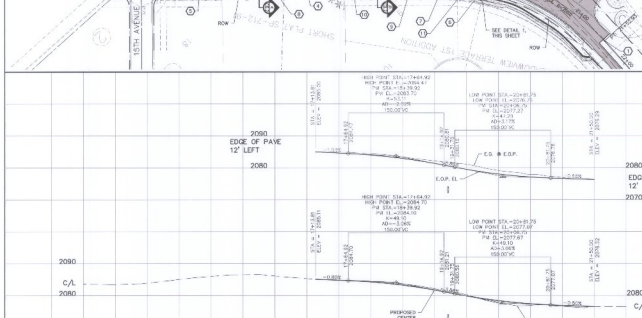
WCE
WHITE CIRCLE ENGINEERING
10109 E. SARANAC ROAD
SPOKANE, WA 99206
PH 509-892-1227 FX 509-926-0267

BARKER ROAD IMPROVEMENTS
TOPOGRAPHICAL SURVEY/DEMO PLAN
BARKER ROAD
GREENACRES, WA

SHEET
C1.0

JOB NUMBER
15-1393





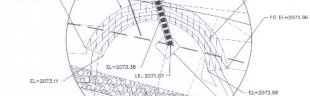
CONSTRUCTION NOTES

1. SAWCUT AND REMOVE 2' MINIMUM OF EXISTING PAVEMENT PROVIDING CLEAN VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING.
2. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION A, SHEET C0.2.
3. PROVIDE AND INSTALL SIDEWALK PAVEMENT PER BARKER ROAD TYPICAL SECTION B, SHEET C0.2. STA. 17+13.85 TO 21+55.00.
4. PROVIDE AND INSTALL 8" D.I. CULVERT UNDER EXISTING DRIVEWAY PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
5. PROVIDE AND INSTALL 1' DEEP V-DITCH PER SECTION B, SHEET C0.2. DITCH GRADE TO RUN PARALLEL WITH E.O.P. GRADE.
6. PROVIDE AND INSTALL ROCK WALL PER DETAIL 1, THIS SHEET, AND FIGURE 7, SHEET C3.3
7. PROVIDE AND INSTALL TYPE 31 GUARDRAIL PER WSDOT STANDARD PLANS C-20.10-03, C-22.40-01, C-1, AND C-1a. DESIGN GUARDRAIL STA 17+19.07, END STA 21+50.08. SEE DETAILS 1 & 2, SHEET C3.5 FOR MORE INFORMATION.
8. REMOVE EXISTING SHRUBS/BUSHES THAT ARE IN EXISTING ROW ONLY.
9. PROVIDE AND INSTALL 2' WIDE RIP RAP STRIP AT SLOPE CATCH POINT WITH 8" MINUS FROM STA. 17+35 TO 21+54.
10. PROVIDE AND INSTALL DITCH TO LOW POINT.
11. PROVIDE AND INSTALL 12" CMP CULVERT FROM V-DITCH TO EXISTING CATCH BASIN PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.

WALL DETAIL

SCALE: 1"=10'

1



WALL SECTION

NOT TO SCALE

X

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-20194A
DATE ACCEPTED 2/24/22
ACCEPTANCE EXPIRES 2/24/23
PROJECT NAME BARKER ROAD
PROJECT LANE MILES PRIVATE
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND ACKNOWLEDGMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
SEE PROJECT FILE FOR DETAILS
MUST READ REVISED 2 DIGITS DATE PRIOR TO ORDERING

NAVD 88 DATUM
BASED ON FOUND BLM BC BRR
CORNER, SECTION 20 T25N R45E
LONGITUDE/LATITUDE PLOTTING PC 1.0 BETA 10
DF 11 BY ROBAY ENGINEERING, INC.
GLOPP DPI: 2206.00

MO.	DATE	BY	REVISIONS
	08/03/16	RJH	ORIGINAL PREPARATION

SCALE:	PROJ #:	15-1393
HORIZONTAL: 1"=50'	DATE:	08/03/16
VERTICAL: 1"=50'	DRAWN:	CBL
	REVIEWED:	TRW

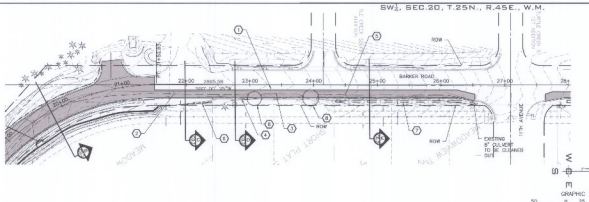
CIVIL	
STRUCTURAL	
ELECTRICAL	
ENTRY	
PLANNING	
LANDSCAPE	
OTHER	

WCE
WHITE CRESCENT ENGINEERING
2208 N DIVISION BOULEVARD
SPOKANE, WASHINGTON 99207
P: 509.489.0611 F: 509.489.0721

BARKER ROAD IMPROVEMENTS
BARKER ROAD FROM 14+00 TO 21+50
BARKER ROAD
GREENACRES, WA

SHEET
C3.0

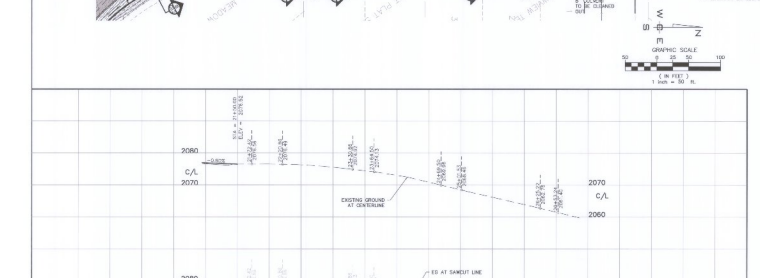
JOB NUMBER
15-1393



CONSTRUCTION NOTES

1. SAWCUT AND REMOVE 3" MINIMUM OF EXISTING PAVEMENT PROVIDING CLEAN VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING.
2. PROVIDE STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION C, SHEET CO.2. FROM STA 21+50 TO 22+41.68.
3. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION D, SHEET CO.2. STA 22+41.68 TO 24+31.68.
4. PROVIDE AND INSTALL TYPE "C" ASPHALT CURB PER SPOKANE COUNTY STANDARD PLAN A-3. CURB ALONG RIGHT SIDE OF PAVEMENT FROM STA 22+41.68 TO 24+31.68.
5. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION E, SHEET CO.2. FROM STA 24+31.68 TO 26+53.24.
6. PROVIDE AND INSTALL DITCH WITH 3:1 MAX SIDE SLOPES TO THE SOUTH.
7. PROVIDE AND INSTALL 4' WIDE CONVEYANCE SWALE PER TYPICAL SECTION E, SHEET CO.2.
8. GRADE EXISTING APPROACH TO MATCH TOP OF NEW TYPE "C" CURB. CONTRACTOR TO MAINTAIN 6% SLOPE OR LESS.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO WORKING DAYS BEFORE YOU DIG



EXISTING GRAVEL APPROACH DETAIL (1)
NTS

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC IMPROVEMENT DRAWING
CONSTRUCTION PLANS
PROJECT #: 2015-0004
DATE ACCEPTED: 08-19-15
ACCEPTANCE EXPIRES: 08-19-18
PROJECTS LANE MILES: PUBLIC: .38
PRIVATE: .00 PRIVATE MAINTENANCE: .00
CONSTRUCTION INSPECTION AND CERTIFICATE RECORD DRAWINGS: "AS BUILTS" ARE REQUIRED PRIOR TO FINAL ACCEPTANCE. ALL CHANGES MADE DURING PROJECT ARE DOCUMENTED FOLLOWED FOR SUBMITTAL. PERMIT REQUIRED: 2015-0171-0000
WRPC: 2015-0000 DATE
PWD FILE DESIGNATION

NAVD 88 DATUM
NAVD88 DATUM(NGVD 88 ADJ)
SPOKANE VALLEY MUDSHED FOR FUNK
CORNER SEC 20 T25N R45E W.M. SUBBE IS
12 ALL BY BOWN ENGINEERS INC.
ELEVATION=2885.06

NO.	DATE	BY	REVISIONS
	08/02/18	RJH	ORIGINAL PREPARATION

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

PROJ #:	15-1393
DATE:	08/02/18
DRAWN:	CEL
REVIEWED:	TRW

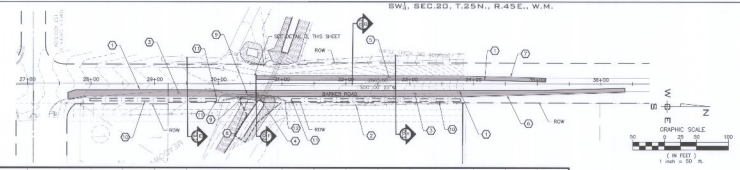
WCE
WHITE CIRELI, INCORPORATED
CIVIL ENGINEERS
SPOKANE, WA 99206
PH 509-927-7015 FAX 509-926-0227

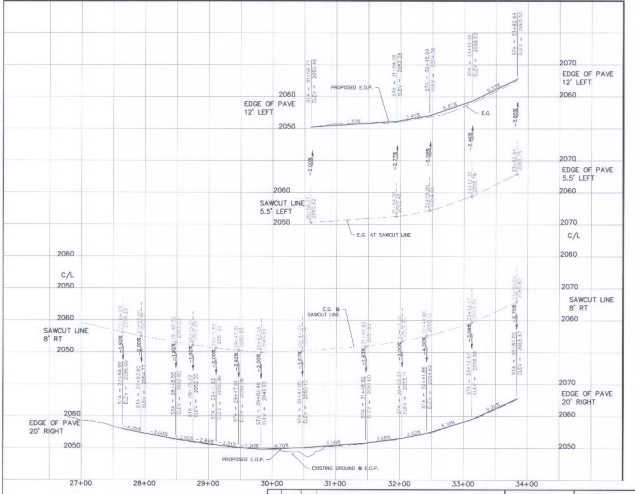
DESIGN
CIVIL
STRUCTURAL
SURVEYING
TRAFFIC
PLANNING
LANDSCAPE ARCHITECTURE
GIS

BARKER ROAD IMPROVEMENTS
BARKER ROAD FROM 21+50 TO 27+00
BARKER ROAD
GREENACRES, WA

SHEET
C3.1

JOB NUMBER
15-1393





CONSTRUCTION NOTES

1. SAWCUT AND REMOVE 2' MINIMUM OF EXISTING PAVEMENT PROVIDING CLEAN VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING.
2. REMOVE EXISTING BARB WIRE FENCE.
3. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION E, SHEET C3.3. FROM STA 27+44.89 TO 30+05.00 AND FROM STA 31+25.00 TO 33+83.03.
4. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION F, SHEET C3.3. FROM STA 30+60.00 TO 31+25.00.
5. PROVIDE AND INSTALL STREET PAVEMENT PER BARKER ROAD TYPICAL SECTION G, SHEET C3.3. FROM STA 33+58.77 TO 33+82.94.
6. FROM STA 33+82.94, 20' RT BEGIN TAPER TO THE LEFT TO STA 36+38.00, 12.86' RT. NEW ALP SHALL MATCH SAWCUT. TAPER SHALL HAVE A 8' MINIMUM WIDTH OF NEW PAVEMENT FOR ENTIRE LENGTH.
7. FROM STA 33+82.94, 12' LT, BEGIN TAPER TO THE RIGHT TO STA 35+13.25. NEW ALP SHALL MATCH SAWCUT. TAPER SHALL HAVE A 8' MINIMUM WIDTH OF NEW PAVEMENT FOR ENTIRE LENGTH.
8. PROVIDE AND INSTALL REER-ROCK HEADWALL PER DETAILS 1 AND 2, THIS SHEET AND DETAILS ON SHEET C3.3. SEE DESIGN PROVIDED BY INLAND PACIFIC ENGINEERING COMPANY.
9. RELOCATE EXISTING CHAINLINK FENCE TO CENTER OF NEW RETAINING WALL.
10. PROVIDE AND INSTALL 4' WIDE CONVEYANCE SWALE PER BARKER ROAD TYPICAL SECTION F, SHEET C3.3.
11. PROVIDE AND INSTALL 1.5' TALL BERM.
12. PROVIDE AND INSTALL WSDOT TYPE 2 CONCRETE BARRIER WITH CONNECTING PINS AND TERMINALS AS SHOWN IN WSDOT STANDARD PLAN C-8.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL DOCUMENT - ORIGINAL
CONSTRUCTION PLANS
PROJECT NAME: BARKER ROAD
DATE ACCEPTED: 06-21-15
ACCEPTANCE EXPIRES: 06-21-17
PROJECT: LANE MILES: PUBLIC: 3.2
PRIVATE: AND MILES: PRIVATE: 0
RECORD DRAWINGS: "AS-BUILT" AND REQUIRED PRIOR TO RELEASE OF MAINTENANCE BOND. ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE DURATION REQUIRED (SEE CTY CODE)
MAINT. BOND: 10% OF CONSTRUCTION COSTS
FINAL TO CONSTRUCTION
DATE: 06-21-15

NAVD 88 DATUM
LAYOUT ON FOUNDATION: RELIGHT-PAR
OWNER/DEVELOPER: ATTENTION TITLE
ZONE: R-1 (RESIDENTIAL) ZONE, V-1 SHEET 16
CD TO BY BOSAY ENGINEERING, INC.
LOCATION: 2S20X

V	06/05/18	RLH	ORIGINAL PREPARATION
NO.	DATE	BY	REVISIONS

SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=10'

PROJ #:	15-1393
DATE:	06/20/18
DRAWN:	GEL
REVIEWED:	TRW

K.C.R.
DESIGN ENGINEER
SIGNATURE
DATE
P.W. ENGINEER
SIGNATURE
DATE

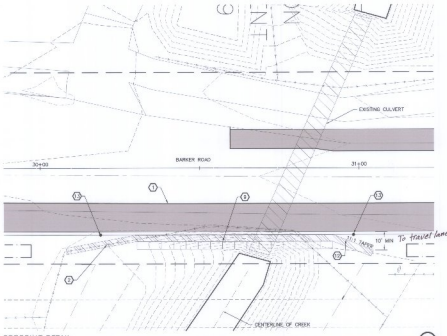
WCE
WHITE CRAIG ENGINEERS
STREET LEGENDS
SPOKANE, WA 99206
FT. THOMPSON 750 509-926-9371

BARKER ROAD IMPROVEMENTS
BARKER ROAD FROM 27+00 TO 34+00
BARKER ROAD
GREENACRES, WA

SHEET
C3.2

JOB NUMBER
15-1393

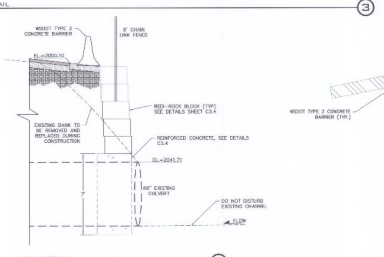
SW¼ SEC.20, T.25N., R.45E., W.M.



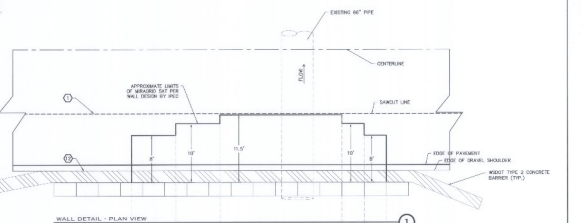
CROSSING DETAIL
SCALE: 1" = 10'

CONSTRUCTION NOTES

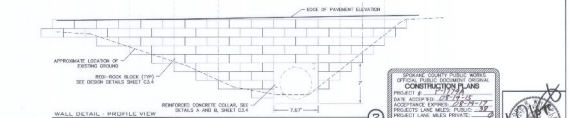
1. SAWCUT AND REMOVE 3" MINIMUM OF EXISTING PAVEMENT PROVIDING CLEAN VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING.
2. REMOVE EXISTING BARB WIRE FENCE.
3. NOT USED
4. NOT USED
5. NOT USED
6. NOT USED
7. NOT USED
8. PROVIDE AND INSTALL RED-ROCK HEADWALL PER DETAILS, THIS SHEET AND DETAILS ON SHEET C3.4. SEE DESIGN PROVIDED BY INLAND PACIFIC ENGINEERING COMPANY.
9. RELOCATE EXISTING CHAINLINK FENCE TO CENTER OF NEW RETAINING WALL.
10. NOT USED
11. NOT USED
12. PROVIDE AND INSTALL WSDOT TYPE 2 CONCRETE BARRIER WITH CONNECTING PINS AND TERMINALS AS SHOWN IN WSDOT STANDARD PLAN C-8.
13. PROVIDE AND INSTALL OBJECT MARKER. CONTRACTOR TO CONTACT SPOKANE COUNTY SIGNS AND MARKING INSPECTOR TO VERIFY PRODUCT TYPE.



WALL DETAIL
NOT TO SCALE



WALL DETAIL - PLAN VIEW
NOT TO SCALE



WALL DETAIL - PROFILE VIEW
NOT TO SCALE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL THE NUMBER BOTH BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 15-1393
DATE ACCEPTED: 07/24/17
PROJECT LANE MILES: PUBLIC 32.7
PROJECT LANE MILES: PRIVATE 0
ENGINEER OF RECORD: NEIL HANSON
THE ACCEPTANCE OF THESE PLANS AND SPECIFICATIONS DOES NOT EXEMPT THE ENGINEER OF RECORD FROM HIS RESPONSIBILITY FOR THE ADEQUACY OF THE DESIGN.
PERMIT INSURANCE ONLY NO SAFE
NOT FOR SUBMITTAL
DIRECTOR OF PUBLIC WORKS

NAVD 88 DATUM
LINCOLN COUNTY REF. NO. 007777
SPOKANE VALLEY BENCHMARK CM-15,1992
ELEVATION=2060.00 (NAVD88) FEET IS
LT 20 BY BENCH GROUNDLEVEL NE
ELEVATION=2064.06

REVISION	BY	ORIGINAL PREPARATION
NO. DATE	BY	RESPONSIBLE

SCALE:	PROJ #: 15-1393
HORIZONTAL: 1"=10'	DATE: 06/22/16
VERTICAL: N/A	DRAWN: CEL
	REVIEWED: TRW

IWCE
SPOKANE COUNTY ENGINEERS
1026 W. BROADWAY AVE. RM. 225
SPOKANE WA 99260-0170
PH 509-921-1927 / FAX 509-921-6021

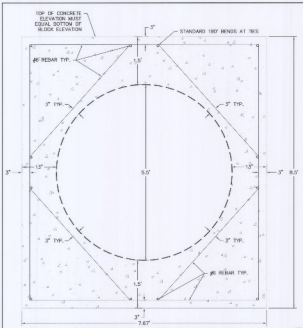
CIVIL
STRUCTURAL
SURVEYING
TRAFFIC
PLANNING
GEOTECHNICAL
GIS

BARKER ROAD IMPROVEMENTS
CROSSING DETAILS
BARKER ROAD
GREENACRES, WA

SHEET
C3.3

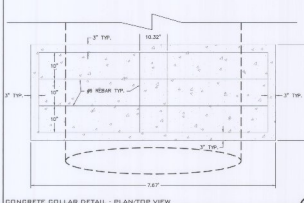
JOB NUMBER
15-1393

SW1, SEC.20, T.25N., R.45E., W.M.



CONCRETE COLLAR DETAIL - PROFILE/SIDE VIEW (A)

NOT TO SCALE



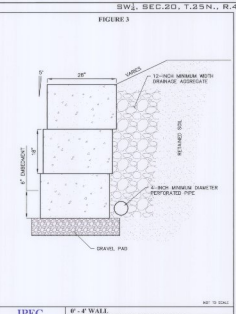
CONCRETE COLLAR DETAIL - PLAN/TOP VIEW (B)

NOT TO SCALE

NAVD 88 DATUM

BASED ON PUBLISHED NGS BENCHMARK "AJ0 R" SPOKANE VALLEY INTERSECTION PLAN) CONSTRUCTION PROVIDED NO. 1, SHEET 3 OF 36, BY BOWN ENGINEERS, INC. ELEVATION: 2059.00

FIGURE 3

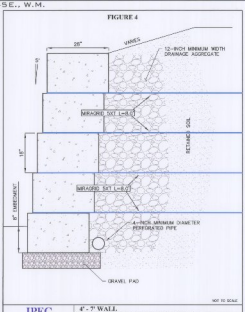


NOT TO SCALE

IPEC — Inland Pacific Engineering Company, Construction Engineering and Consulting

6' - 4' WALL
PROPOSED SEGMENTAL BLOCK RETAINING WALL
BARKER ROAD RETAINING WALLS
SPOKANE COUNTY, WA
PROJECT NO 15-1393
DATE 04-22-15

FIGURE 4

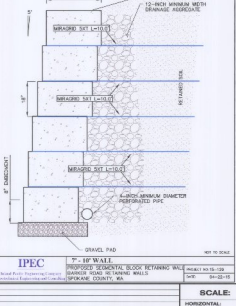


NOT TO SCALE

IPEC — Inland Pacific Engineering Company, Construction Engineering and Consulting

4' - 7' WALL
PROPOSED SEGMENTAL BLOCK RETAINING WALL
BARKER ROAD RETAINING WALLS
SPOKANE COUNTY, WA
PROJECT NO 15-1393
DATE 04-22-15

FIGURE 5

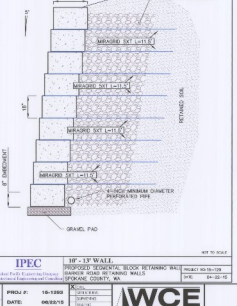


NOT TO SCALE

IPEC — Inland Pacific Engineering Company, Construction Engineering and Consulting

7' - 10' WALL
PROPOSED SEGMENTAL BLOCK RETAINING WALL
BARKER ROAD RETAINING WALLS
SPOKANE COUNTY, WA
PROJECT NO 15-1393
DATE 04-22-15

FIGURE 6

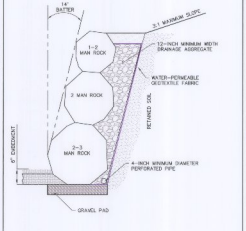


NOT TO SCALE

IPEC — Inland Pacific Engineering Company, Construction Engineering and Consulting

10' - 13' WALL
PROPOSED SEGMENTAL BLOCK RETAINING WALL
BARKER ROAD RETAINING WALLS
SPOKANE COUNTY, WA
PROJECT NO 15-1393
DATE 04-22-15

FIGURE 7



NOT TO SCALE

IPEC — Inland Pacific Engineering Company, Construction Engineering and Consulting

0-3' BOULDER WALL
PROPOSED BOULDER RETAINING WALL
BARKER ROAD RETAINING WALLS
SPOKANE COUNTY, WA
PROJECT NO 15-1393
DATE 04-22-15

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 15-1393
PLAN REVIEW: 05-21-15
ACCEPTANCE EXPIRES: 05-21-17
PROJECTS LINE MISES PUBLIC: 32
PROJECT LANE MISES PRIVATE: 0
CONSTRUCTION DOCUMENTS MUST BE ACCURATE AND CONTAIN SUFFICIENT INFORMATION TO ALLOW REVIEWER TO DETERMINE COMPLIANCE WITH SPOKANE COUNTY STANDARDS
PERMIT REQUIRED (360) 477-3662
NOTE: THIS SHEET IS A PORTION OF THE CONSTRUCTION PLANS

1	06/02/15	NJH	ORIGINAL PREPARATION
NO.	DATE	BY	REVISIONS

SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

PROJ. #: 15-1393
DATE: 06/02/15
DRAWN: NJH
REVIEWED: TRW

DESIGNED: SUPERVISED: DRAWN: NJH REVIEWED: TRW APPROVED: DATE:

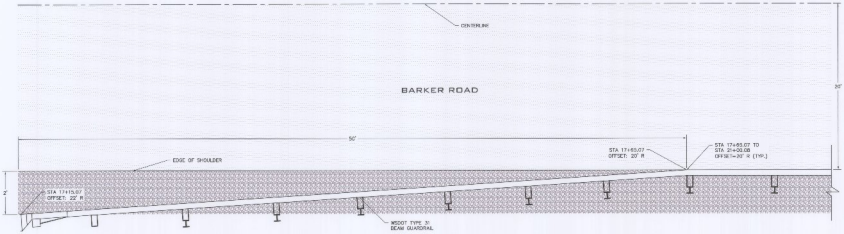
WCE
WHITE CONSULTING ENGINEERS, INC.
SPOKANE VALLEY, WA 99217
14 N MOWBRAY RD (509)928-9217

BARKER ROAD IMPROVEMENTS
BARKER ROAD WALL DETAILS
BARKER ROAD
GREENACRES, WA

SHEET
C3.4
JOB NUMBER
15-1393

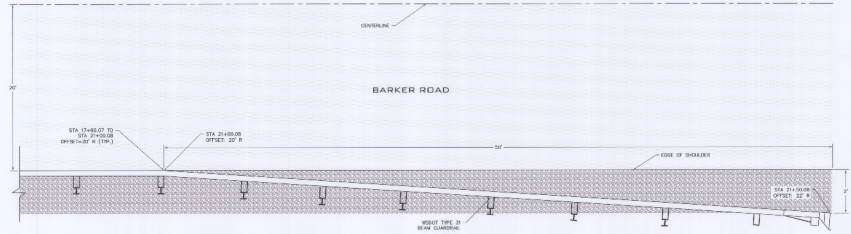
SW¼, SEC.20, T.25N., R.45E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG



GUARDRAIL DETAIL - BARKER ROAD
NOT TO SCALE

1



GUARDRAIL DETAIL - BARKER ROAD
NOT TO SCALE

2

BASIS OF CONTROL PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 15-1393
DATE ACCEPTED: 03-15-17
ACCEPTANCE EXPIRES: 03-15-19
PROJECT: BARKER ROAD IMPROVEMENTS
PROJECT: LAND MILES PROJECT
CONSTRUCTION DOCUMENTATION AND CERTIFICATE OF COMPLETION FOR THIS PROJECT HAS BEEN FILED TO COUNTY RECORD FILES, AND SUBJECT PROPERTY, THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE BY THE COUNTY ARE ACCEPTED.
MARK ROAD SERVICES / ROBERT DAVIS
PWS 10 INSPECTOR

NAVD 88 DATUM
BASED ON FOUND 2.5" BRASS CAP FOR EXCHANGE SALTY AUTOS (TYPICAL) CONSTRUCTION PROVIDED, NO 2' SAFEC TO CITY OF GREENACRES, WASHINGTON, NO ELEVATION 322.06

NO.	DATE	BY	REVISIONS
0	06/20/16	NJH	ORIGINAL PREPARATION

SCALE:	
HORIZONTAL:	N/A
VERTICAL:	N/A

PROJ #:	15-1393
DATE:	06/20/16
DRAWN:	RWA
REVIEWED:	TRW

CHECK
CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
LANDSCAPE
OTHER

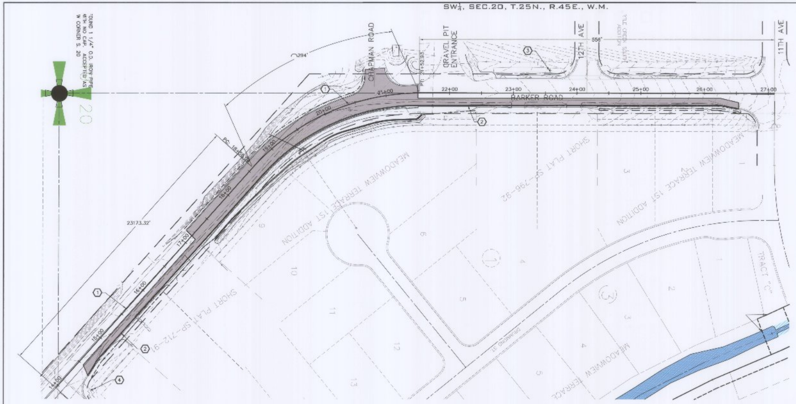
WCE
WESTERN CONSULTING ENGINEERS
2015 SOUTH 143rd PLACE
SEATTLE, WASHINGTON 98168
P: (206)242-7117 F: (206)242-7119

BARKER ROAD IMPROVEMENTS
GUARDRAIL DETAILS
BARKER ROAD
GREENACRES, WA

SHEET
C3.9

JOB NUMBER
15-1393

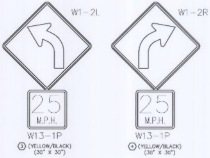
SW¼, SEC.20, T.25N., R.45E., W.M.



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

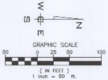
CONSTRUCTION NOTES

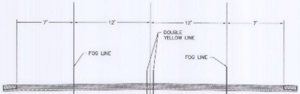
1. PROVIDE AND INSTALL 4" WIDE SOLID DOUBLE YELLOW CENTERLINE PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS
2. PROVIDE AND INSTALL 4" WIDE SOLID WHITE LINE (FOG LINE) PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
3. PROVIDE AND INSTALL LEFT TURN TRAFFIC SIGN PER DETAIL 2, THIS SHEET.
4. PROVIDE AND INSTALL RIGHT TURN TRAFFIC SIGN PER DETAIL 2, THIS SHEET.

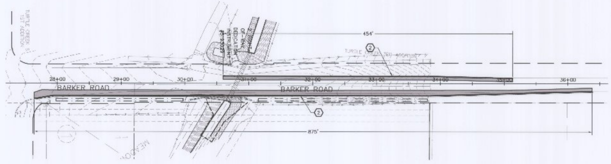


TRAFFIC SIGN (2)

NOT TO SCALE







TYPICAL STRIPING SECTION (1)

NOT TO SCALE

STRIPE	STATION
CENTERLINE – DOUBLE YELLOW	14+42.90 TO 20+48.13 21+30.63 TO 23+68.73 24+63.67 TO 26+65.00 27+58.28 TO 35+13.29
FOG LINE	AS SHOWN

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1779A
DATE ACCEPTED: 08-19-15
ACCEPTANCE EXPIRES: 08-19-17
PROJECTS LANE MILES: PUBLIC: .38
PROJECT LANE MILES PRIVATE: Ø
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

TODD R. WHIPPLE — STATE OF WASHINGTON — 25462 — REGISTERED PROFESSIONAL ENGINEER — 8/11/15

NAVD 88 DATUM
BASED ON FOUND B.M. NO. 62 PER SPOKANE VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V. SHEET 15 OF 23, BY BOVAY ENGINEERS, INC ELEVATION=2036.30

NO.	DATE	BY	REVISIONS
-	06/22/15	NJH	ORIGINAL PREPARATION

SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A

PROJ #: 15-1393
DATE: 06/22/15
DRAWN: NJH
REVIEWED: TRW

X CIVIL / STRUCTURAL / SURVEYING / TRAFFIC / PLANNING / LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PH: 509-893-2617 FAX: 509-926-0227

BARKER ROAD IMPROVEMENTS
CENTER AND FOG LINE STRIPING PLAN
BARKER ROAD
GREENACRES, WA

SHEET C4.0

JOB NUMBER 15-1393

SW1/4, SEC.20, T.25N., R.45E., W.M.

EROSION CONTROL PLANS

BARKER ROAD IMPROVEMENTS

LOCATED IN A PORTION OF SE 1/4, SEC. 20, T. 26 N., R. 43 E., W.M. SPOKANE, WASHINGTON

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

WCE GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH SPOKANE COUNTY AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY SPOKANE COUNTY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL. PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH SPOKANE COUNTY.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO SPOKANE COUNTY INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY SPOKANE COUNTY.

18. BASED ON REQUIREMENTS FROM SPOKANE COUNTY, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO SPOKANE COUNTY ENGINEER.

19. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF SPOKANE VALLEY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.

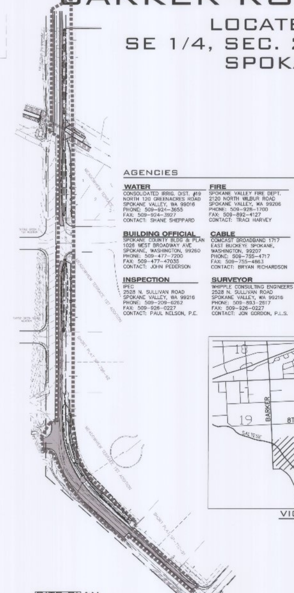
20. ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PRE-APPROVED SOURCE/DESTINATION AND COORDINATED WITH SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT SPOKANE COUNTY 509-477-3675. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO , GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOOD PLAINS, DESIGNATED DRAINAGE WAYS, ETC.

21. THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT SHOULD A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS ET.AL. DETERMINED TO BE PART OF THE OVERALL PROJECT, INCLUDING BUT NOT LIMITED TO THE ARCHITECTURAL PLANS, MECHANICAL PLANS, ELECTRICAL PLANS, LANDSCAPE PLANS, GENERAL SPECIAL PROVISIONS, ETC., THAT WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER, OWNER OR OTHER PROFESSIONAL, DURING THE BIDDING PROCESS, THAT IN ALL INSTANCES THE CONTRACTOR WILL BE REQUIRED TO BID THE HIGHER STANDARD. FAILURE TO DO SO MAY RESULT IN THE HIGHER STANDARD BEING REQUIRED BY THE OWNER, ENGINEER OR OTHER PROFESSIONAL WITH NO CHANGE IN VALUE TO THE CONTRACT VIA CHANGE ORDER OR OTHER MECHANISM.

22. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

23. DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONSTRUCT TO THESE PLANS IN LIEU OF FIELD STAKING. SHOULD INCONSISTENCIES BE APPARENT THE CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER, AND SURVEYOR TO RECTIFY THE DISCREPANCY PRIOR TO CONSTRUCTION EFFORT BEING APPLIED.

NAVD 88 DATUM
BASED ON FOUND B.M. NO. 62 PER SPOKANE VALLEY INTERCEPTOR PLANS CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION = 2036.00



SITE PLAN
SCALE: 1"=100'

AGENCIES

WATER
CONSOLIDATED IRRIG. DIST. #19
NORTH 120 GREENACRES ROAD
SPOKANE VALLEY, WA 99016
PHONE: 509-924-3655
FAX: 509-924-3927
CONTACT: SHANE SHEPPARD

FIRE
SPOKANE VALLEY FIRE DEPT.
2120 NORTH WILBUR ROAD
SPOKANE VALLEY, WA 99206
PHONE: 509-928-1700
FAX: 509-892-4127
CONTACT: TRACI HARVEY

HEALTH
SPOKANE REGIONAL HEALTH
1101 WEST COLLEGE AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-324-1560-1
FAX: 509-324-3603
CONTACT: DON COPLEY

SEWER
SPOKANE COUNTY UTILITIES
1028 WEST BROADWAY
SPOKANE, WASHINGTON 99260
PHONE: 509-477-7298
FAX: 509-477-4715
CONTACT: CHRIS KNUDSON

STREETS
SPOKANE COUNTY
1026 WEST BROADWAY AVE
SPOKANE, WASHINGTON, 99260
PHONE: 509-477-3600
FAX: 509-477-7655
CONTACT:MATT ZARECOR, P.E.

BUILDING OFFICIAL
SPOKANE COUNTY BLDG & PLAN
1026 WEST BROADWAY AVE
SPOKANE, WASHINGTON, 99260
PHONE: 509-477-7200
FAX: 509-477-47035
CONTACT: JOHN PEDERSON

CABLE
COMCAST BROADBAND 1717
EAST BUCKEYE SPOKANE,
WASHINGTON, 99207
PHONE: 509-755-4717
FAX: 509-755-4863
CONTACT: BRYAN RICHARDSON

GAS / POWER
AVISTA UTILITIES
1411 EAST MISSION AVENUE
SPOKANE, WASHINGTON 99220
PHONE:1-509-495-8536
FAX: 1-509-495-8734
CONTACT: LUANN WEINGER

TELEPHONE
CENTURY LINK
904 NORTH COLUMBUS
SPOKANE, WASHINGTON, 99202
PHONE: 509-623-0304
FAX: 509-455-2104
CONTACT: KEVIN GOLTZ

SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-466-9400

INSPECTION
IPEC
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-209-6262
FAX: 509-926-0227
CONTACT: PAUL NELSON, P.E.

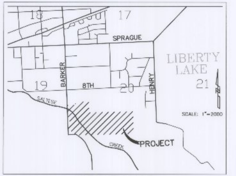
SURVEYOR
WHIPPLE CONSULTING ENGINEERS
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: JON GORDON, P.L.S.

ENGINEERING
WHIPPLE CONSULTING ENGINEERS
2528 N. SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PHONE: 509-893-2617
FAX: 509-926-0227
CONTACT: TODD WHIPPLE, P.E.

OWNER/DEVELOPER
BRYAN WALKER
NAI BLACK
107 S HOWARD STREET, ST 500
SPOKANE WASHINGTON 99201
PHONE: 509-622-3593
FAX: 509-622-3500
CONTACT: BRYAN WALKER

SHEET INDEX

C9.0 EROSION CONTROL PLAN
C9.1 EROSION CONTROL NOTES



VICINITY MAP

N
W E
S

GRAPHIC SCALE
100 0 50 100 200
(IN FEET)
1 inch = 100 ft.

LEGEND

- STORM DRAINAGE POND – NO CONCRETE TRUCK WASHOUT AREA.
- BMP C233: SILT FENCE, SHEET C9.1.
- BMP C220: STORM DRAIN INLET PROTECTION, SHEET C9.1.
- LIMITS OF DISTURBANCE

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1779A
DATE ACCEPTED: 08-19-15
ACCEPTANCE EXPIRES: 08-19-17
PROJECTS LANE MILES: PUBLIC: .38
PROJECT LANE MILES PRIVATE: Ø
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

NO.	DATE	BY	REVISIONS
-	06/22/15	NJH	ORIGINAL PREPARATION

SCALE: HORIZONTAL: N/A VERTICAL: N/A

PROJ #: 15-1393
DATE: 06/22/15
DRAWN: NJH
REVIEWED: TRW

X CIVIL / STRUCTURAL / SURVEYING / TRAFFIC / PLANNING / LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PH: 509 893 2617 FAX: 509 926 0227

BARKER ROAD IMPROVEMENTS
EROSION CONTROL COVER SHEET
BARKER ROAD
GREENACRES, WA

SHEET C9.0
JOB NUMBER 15-1393

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SW¼, SEC.20, T.25N., R.45E., W.M.

EROSION & SEDIMENT CONTROL
GENERAL NOTES AND INFORMATION

AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE E.S.C. PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE E.S.C. FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.

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

THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.

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

THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

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

THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.

PROPERTY OWNER:
PERMIT APPLICANT: **WHIPPLE CONSULTING ENGINEERS, (509)-893-2617**
CONTACT PERSON ON SITE: TBD

PROJECT LOCATION: **IN SPOKANE COUNTY, BARKER ROAD, IN SW 1/4 OF SECTION 20, TOWNSHIP 25 N RANGE 45 E. WM.**

PROJECT DESCRIPTION: THIS PROJECT PROPOSES TO WIDEN BARKER ROAD FROM 11TH AVENUE TO 13TH AVENUE.

DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND SEDIMENTATION FILTERS. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER SITE IS LANDSCAPED.

EXISTING VEGETATION: ROADWAY SHOULDERS AND WEEDS

PLAN PREPARATION DATE: MARCH 2015.

SOILS: **SPRINGDALE GRAVELLY SANDY LOAM, 0 TO 20 PERCENT SLOPES**

STABILIZATION OF DENUDED AREAS:
ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30-45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.

CONTROL OF POLLUTANTS:
ANY SPILLS WILL BE HANDLED ACCORDING TO D.O.E. AND D.O.H. GUIDELINES.

LIMITS OF GRADING:
DURING THE COURSE OF CONSTRUCTION, THE AMOUNT OF DISTURBED AREA SHALL BE KEPT TO A MINIMUM AS MUCH AS POSSIBLE.

MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF THE TEMPORARY E.S.C. MEASURES.

SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE E.S.C. STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

ALL TEMPORARY AND PERMANENT E.S.C. PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

ALL TEMPORARY E.S.C. MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

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 CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER TO WASH THE CONSTRUCTION DEBRIS FROM THE STREET.

ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY USING WATER. APPLICATIONS OF WATER MAY BE REQUIRED SEVERAL TIMES PER DAY DURING CONSTRUCTION ACTIVITY.

E.S.C. STANDARD PLAN NOTES FROM APPENDIX 9A OF THE
SPOKANE REGIONAL STORMWATER MANUAL

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS.

(A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALL OF TEMPORARY E.S.C. BMP'S;

(B) INSTALL TEMPORARY E.S.C. BMP'S, CONSTRUCTING SEDIMENT TRAPPING BMP'S AS ONE OF THE FIRST STEPS PRIOR TO GRADING;

(C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;

(D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;

(E) CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;

(F) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMP'S, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;

(G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);

(H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMP'S;

(I) INSTALL PERMANENT E.S.C. CONTROLS WHEN APPLICABLE; AND,

(J) REMOVE TEMPORARY E.S.C. CONTROLS WHEN;

2. PERMANENT E.S.C. CONTROLS WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;

3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION AND SEDIMENTATION PROBLEMS HAVE CEASED; AND,

4. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED E.S.C. PLAN ON FILE WITH THE LOCAL JURISDICTION.

5. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.

6. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

7. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.

8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.

9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AND UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.

10. INSPECT SEDIMENT CONTROL BMP'S WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.

11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.

12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 TO SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THRU JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT, BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THE TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.

13. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.

14. KEEP ROADS ADJACENT TO INLETS CLEAN.

15. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY FOR STORM EVENTS.

16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE, POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERABLE BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.

17. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.

18. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 W.A.C. FOR THE DEFINITION OF INERT WASTE). USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.

19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEMS REPAIRS, SOLVENT AND DEGREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.

20. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.

21. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING EVENT) AND MAINTAIN ALL **EROSION AND SEDIMENT CONTROL** BMP'S TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMP'S. NOTE THAT SILT FENCES SHALL BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.

22. REMOVE TEMPORARY E.S.C. BMP'S WITHIN 30 DAYS AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREA THAT ARE DISTURBED DURING REMOVAL PROCESS.

SRCAA GENERAL NOTES

1. DUST EMISSIONS DURING DEMOLITION, CONSTRUCTION, AND EXCAVATION PROJECTS MUST BE CONTROLLED. THIS MAY REQUIRE THE USE OF WATER SPRAYS, TARPS, SPRINKLERS, OR SUSPENSION OF ACTIVITY DURING CERTAIN WEATHER CONDITIONS.
2. MEASURES MUST BE TAKEN TO AVOID THE DEPOSITION OF DIRT AND MUD FROM UNPAVED SURFACES ONTO PAVED SURFACES. IF TRACKING OR SPILLS OCCUR ON PAVED SURFACES, MEASURES MUST BE TAKEN IMMEDIATELY TO CLEAN THESE SURFACES.
3. DEBRIS GENERATED AS A RESULT OF THIS PROJECT, MUST BE DISPOSED OF BY MEANS OTHER THAN BURNING (I.E., CONSTRUCTION WASTE, VEGETATIVE WASTE, ETC.).
4. SPOKANE CLEAN AIR (SRCAA) STRONGLY RECOMMENDS THAT ALL UNPAVED SURFACES (I.E., INGRESS, EGRESS, PARKING AREAS, ACCESS ROADS, ETC.) BE PAVED AND KEPT CLEAN TO MINIMIZE DUST EMISSIONS.
5. IF OBJECTIONABLE ODORS RESULT FROM THIS PROJECT, EFFECTIVE CONTROL APPARATUS AND MEASURES MUST BE TAKEN TO REDUCE ODORS TO A MINIMUM.
6. SPECIAL ATTENTION SHOULD BE GIVEN TO PROPER MAINTENANCE OF DIESEL POWERED CONSTRUCTION EQUIPMENT TO REDUCE THE IMPACT OF DIESEL EXHAUST, A SUSPECTED CARCINOGEN.
7. A NOTICE OF CONSTRUCTION AND APPLICATION FOR APPROVAL IS REQUIRED TO BE SUBMITTED AND APPROVED BY SRCAA PRIOR TO THE CONSTRUCTION, INSTALLATION, OR ESTABLISHMENT OF AN AIR POLLUTION SOURCE. THIS INCLUDES EMERGENCY GENERATORS RATED AT 500 HP(375 KW) OR HIGHER, NATURAL GAS HEATING EQUIPMENT UNITS RATED AT FOUR MMBTU/HOUR OR HIGHER (INPUT), AND HEATING EQUIPMENT UNITS FIRED WITH OTHER FUELS (I.E., DIESEL) RATED AT ONE MMBTU/HOUR (INPUT) OR HIGHER. CONTACT SPOKANE CLEAN AIR (SRCAA) FOR A NOTICE OF CONSTRUCTION APPLICATION.
8. NOTICE OF INTENT MUST BE SUBMITTED TO SRCAA PRIOR TO ANY DEMOLITION PROJECT OR ASBESTOS PROJECT. AN ASBESTOS SURVEY MUST BE DONE BY AN AHERA-ACCREDITED BUILDING INSPECTOR PRIOR TO THE DEMOLITION OR RENOVATION OF BUILDINGS TO DETERMINE IF ASBESTOS-CONTAINING MATERIAL IS PRESENT AT THE SITE. CONTACT SPOKANE CLEAN AIR (SRCAA) FOR A NOTICE OF INTENT APPLICATION.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: ___
DATE ACCEPTED: ___
ACCEPTANCE EXPIRES: ___
PROJECT LANE MILES: PUBLIC: ___
PROJECT LANE MILES: PRIVATE: ___
CONSTRUCTION DOCUMENTATION AND CONTROL TESTING REQUIRED. "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE PLANS AND DRAINAGE FACILITIES. THE MAINTENANCE PERMIT REQUIRED (ROW) STILL APPLIES.

NAVD 88 DATUM

	06/2015	NJH	ORIGINAL PREPARATION
NO.	DATE	BY	REVISIONS

SCALE:	
HORIZONTAL:	N/A
VERTICAL:	N/A

PROJ #:	15-1393
DATE:	06/23/15
DRAWN:	NJH
REVIEWED:	TRW

WCE

BARKER ROAD IMPROVEMENTS
EROSION CONTROL NOTES
BARKER ROAD
GREENACRES, WA

SHEET
C9.1

JOB NUMBER
15-1393

SW¼, SEC.20, T.25N., R.45E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

BMP C233: SILT FENCE

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL 2004 EDITION

PURPOSE: USE OF SILT FENCE REDUCES THE TRANSPORT OF COARSE SEDIMENT FROM A CONSTRUCTION SITE BY PROVIDING A TEMPORARY PHYSICAL BARRIER TO SEDIMENT AND REDUCING THE RUNOFF VELOCITIES OF OVERLAND FLOW. SEE FIGURE 7.3.20 OF THE EASTERN WASHINGTON STORMWATER MANUAL OR DETAIL BELOW FOR DETAILS ON SILT FENCE CONSTRUCTION.

CONDITIONS OF USE: SILT FENCE MAY BE USED DOWNSLOPE OF ALL DISTURBED AREAS. SILT FENCE IS NOT INTENDED TO TREAT CONCENTRATED FLOWS, NOR IS IT INTENDED TO TREAT SUBSTANTIAL AMOUNTS OF OVERLAND FLOW. ANY CONCENTRATED FLOWS MUST BE CONVEYED THROUGH THE DRAINAGE SYSTEM TO A SEDIMENT POND. THE ONLY CIRCUMSTANCE IN WHICH OVERLAND FLOW CAN BE TREATED SOLELY BY A SILT FENCE, RATHER THAT BY A SEDIMENT POND, IS WHEN THE AREA DRAINING TO THE FENCE IS ONE ACRE OR LESS AND FLOW RATES ARE LESS THAN 0.5 CFS.

SILT FENCES SHOULD NOT BE CONSTRUCTED IN STREAMS OR USED IN V-SHAPED DITCHES. THEY ARE NOT AN ADEQUATE METHOD OF SILT CONTROL FOR ANYTHING DEEPER THAT SHEET OR OVERLAND FLOW.

DESIGN AND INSTALLATION: DRAINAGE AREA OF 1 ACRE OR LESS OR IN COMBINATION WITH SEDIMENT BASIN IN A LARGER SITE.

MAXIMUM SLOPE STEEPNESS (NORMAL OR PERPENDICULAR TO FENCE LINE) 1:1.

MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE OF 100 FEET.

NO FLOWS GREATER THAN 0.5 CFS.

THE GEOTEXTILE USED SHALL MEET THE FOLLOWING STANDARDS. ALL GEOTEXTILE PROPERTIES LISTED BELOW ARE MINIMUM AVERAGE ROLL VALUES.

POLYMETRIC MESH AOS (ASTM D4751)	0.60MM MAX. FOR SLIT WOVENS (#30 SIEVE). 0.30MM MAX. FOR ALL OTHER GEOTEXTILE TYPES (#50 SIEVE). 0.15MM MAX. FOR ALL FABRIC TYPES (#100 SIEVE).
WATER PERMITTIVITY (ASTM D4491)	0.02/SEC MIN.
GRAB TENSILE STRENGTH (ASTM D4632)	180 LBS. MIN. FOR EXTRA STRENGTH FABRIC. 100 LBS. MIN. FOR STANDARD STRENGTH FABRIC
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX,
ULTRAVIOLET RESISTANCE (ASTM D4335)	70% MIN.

STANDARD STRENGTH FABRICS SHALL BE SUPPORTED WITH WIRE MESH, CHICKEN WIRE, 2-INCH X 2-INCH, SAFETY FENCE, OR JUST MESH TO INCREASE THE STRENGTH OF FABRIC. SILT FENCE MATERIALS ARE AVAILABLE THAT HAVE SYNTHETIC MESH BACKING ATTACHED.

FILTER FABRIC MATERIAL SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F. TO 120°F.

100 PERCENT BIODEGRADABLE SILT FENCE IS AVAILABLE THAT IS STRONG, LONG LASTING, AND CAN BE LEFT IN PLACE AFTER THE PROJECT IS COMPLETED, IF PERMITTED BY LOCAL REGULATIONS.

CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATIONS SHOWN IN THE PLANS. THE SILT FENCE SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES. A SILT FENCE SHALL NOT BE CONSIDERED TEMPORARY IF THE SILT FENCE MUST OPERATE BEYOND THE LENGTH OF THE CONTRACT. THE SILT FENCE SHALL PREVENT SOIL CARRIED BY RUNOFF WATER FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE, BUT SHALL ALLOW WATER TO PASS THROUGH THE FENCE.

THE MINIMUM HEIGHT OF THE TOP OF SILT FENCE SHALL BE 2 FEET AND THE MAXIMUM SHALL BE 2.5 FEET ABOVE THE ORIGINAL GROUND SURFACE.

DESIGN AND INSTALLATION: (CONTINUED) THE GEOTEXTILE SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE, OR AT AN APPROVED LOCATION AS DETERMINED BY THE ENGINEER, TO FORM GEOTEXTILE LENGTHS AS REQUIRED. ALL SEWN SEAMS SHALL BE LOCATED AT A SUPPORT POST. ALTERNATIVELY, TWO SECTIONS OF SILT FENCE CAN BE OVERLAPPED, PROVIDED THE CONTRACTOR CAN DEMONSTRATE, TO THE SATISFACTION OF THE ENGINEER, THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.

THE GEOTEXTILE SHALL BE ATTACHED ON THE UP-SLOPE SIDE OF THE POSTS AND SUPPORT SYSTEM WITH STAPLES, WIRE, OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE GEOTEXTILE SHALL BE ATTACHED IN A MANNER THAT REDUCES THE POTENTIAL FOR GEOTEXTILE TEARING AT THE STAPLES, WIRE, OR OTHER CONNECTION DEVICE. SILT FENCE BACKUP SUPPORT FOR THE GEOTEXTILE IN THE FORM OF A WIRE OF PLASTIC MESH IS DEPENDENT ON THE PROPERTIES OF THE GEOTEXTILE SELECTED FOR SUE. IF WIRE OR PLASTIC BACK-UP MESH IS USED, THE MESH SHALL BE FASTENED SECURELY TO THE UP-SLOPE OF THE POSTS WITH THE GEOTEXTILE BEING UP-SLOPE OF THE MESH BACK SUPPORT.

THE GEOTEXTILE AT THE BOTTOM OF THE FENCE HALL BE BURIED IN A TRENCH TO A MINIMUM DEPTH OF 4" BELOW THE GROUND SURFACE. THE TRENCH SHALL BE BACKFILLED AND THE SOIL TAMPED IN PLACE OVER THE BURIED PORTION OF THE GEOTEXTILE, SUCH THAT NO FLOW CAN PASS BENEATH THE FENCE AND SCOURING CAN NOT OCCUR. WHEN WIRE OR POLYMETRIC BACK-UP SUPPORT MESH IS USED, THE WIRE OR POLYMERIC MESH SHALL EXTEND INTO THE TRENCH A MINIMUM OF 3".

THE FENCE POSTS SHALL BE PLACED OR DRIVEN A MIN. OF 18'. A MIN. DEPTH OF 12" IS ALLOWED IF TOPSOIL OR OTHER SOFT SUBGRADE SOIL IS NOT PRESENT AND A MIN. DEPTH OF 18' CANNOT BE REACHED. FENCE POST DEPTHS SHALL BE INCREASED 6' IF THE FENCE IS LOCATED ON SLOPES PF 3:1 OR STEEPER AND THE SLOPE IS PERPENDICULAR TO THE FENCE. IF REQUIRED POST DEPTHS CANNOT BE OBTAINED, THE POSTS SHALL BE ADEQUATELY SECURED BY BRACING OR GUYING TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.

SILT FENCES SHALL BE LOCATED ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE, WHERE THE FENCE SHALL BE TURNED UPHILL SUCH THAT THE SILF FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.

IF THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE END OF THE FENCE. GRAVEL CHECK DAMS PLACED PERPENDICULAR TO THE BACK OF THE FENCE SHALL BE USED TO MINIMIZE CONCENTRATED FLOW AND EROSION ALONG THE BACK OF THE FENCE. THE GRAVEL CHECK DAMS SHALL BE APPROXIMATELY 1' DEEP AT THE BACK OF THE FENCE. IT SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERCEPTS THE THE GROUND SURFACE BEHIND THE FENCE. THE GRAVEL CHECK DAMS SHALL CONSIST OF CRUSHED SURFACING TOP COURSE, GRAVEL BACKFILL FOR WALLS, OR SHOULDER BALLAST. THE GRAVEL CHECK DAMS SHALL BE LOCATED EVERY 10' ALONG THE FENCE WHERE THE FENCE MUST CROSS THE CONTOURS. THE SLOPE OF THE FENCE LINE WHERE THE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3:1 WOOD, STEEL OR EQUIVALENT POSTS SHALL BE USED. WOOD POSTS SHALL HAVE MINIMUM DIMENSIONS OF 2"X2"X3' MIN. LENGTH, AND SHALL BE FREE OF DEFECTS SUCH AS KNOTS, SPLITS, OR GOUGES. STEEL POSTS SHALL CONSIST OF EITHER SIZE NO. 6 REBAR OR LARGER, ASTM A 120 STEEL PIPE WITH A MIN. DIAMETER. OR 1-INCH, U, T, L, OR C SHAPE STEEL POSTS WITH A MIN. WEIGHT OF 1.35 LBS./FT. OR OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE TO THE POST SIZES LISTED. THE SPACING OF THE SUPPORTS POSTS SHALL BE A MAXIMUM OR 6'.

FENCE BACK-UP SUPPORT, IF USED, SHALL CONSIST OF STEEL WIRE WITH A MAX. MESH SPACING OF 2', OR A PREFABRICATED POLYMERIC MESH. THE STRENGTH OF WIRE ON POLYMERIC MESH SHALL BE EQUIVALENT TO OR GREATER THAT 180 LBS. GRAB TENSILE STRENGTH. THE POLYMERIC MESH MUST BE AS RESISTANT TO ULTRAVIOLET. RADIATION AS THE GEOTEXTILE IT SUPPORTS.

SILT FENCE INSTALLATION USING THE SLICING METHOD SPECIFICATION DETAILS FOLLOW.

THE BASE OF BOTH END POSTS MUST BE AT LEAST 2-4"ABOVE THE TOP OF THE SILT FENCE FABRIC ON THE MIDDLE POSTS FOR DITCH CHECKS TO DRAIN PROPERLY. USE A HAND LEVEL OR STRING LEVEL, IF NECESSARY, TO MARK BASE POINTS BEFORE INSTALLATION.

INSTALL POSTS 3-4' APART IN CRITICAL RETENTION AREAS. AND 6-7' APART IN STANDARD APPLICATIONS.

INSTALL POSTS 24" DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC. ENABLING POSTS TO SUPPORT THE FABRIC FROM THE UPSTREAM WATER PRESSURE.

INSTALL POSTS WITH NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC.

ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITH THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. IN ADDITION, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENING TO PREVENT SAGGING.

WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.

NO MORE THEN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL.

THE ROPE LOCK SYSTEM MUST BE USED IN ALL DITCH CHECK APPLICATIONS.

THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATION BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE GROUND IF NECESSARY.

COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE WITH THE FRONT WHEEL OF A TRACTOR, SKID STEER, OR ROLLER EXERTING 60 PSI, COMPACT THE UPSTREAM SIDE FIRST AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS

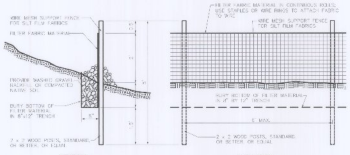
MAINTENANCE STANDARDS: ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.

IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.

IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF THE FLOWS PARALLEL TO THE FENCE, IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.

SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE INSTALLED.

IF THE FILTER FABRIC OR GEOTEXTILE HAS DETERIORATED DUE TO ULTRAVIOLENT BREAKDOWN, IT SHALL BE REPLACED.



SILT FENCE DETAIL (1)

NOT TO SCALE

BMP C105: STABILIZED CONSTRUCTION ENTERANCE

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL 2004 EDITION

PURPOSE: CONSTRUCTION ENTRANCES ARE STABILIZED TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PAVED ROADS BY VEHICLES OR EQUIPMENT BY CONSTRUCTING A STABILIZED PAD OF QUARRY SPALLS AT ENTRANCES TO CONSTRUCTION SITES.

CONDITIONS OF USE: CONSTRUCTION ENTRANCES SHALL BE STABILIZED WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND TRAVELING ON PAVED ROADS OR OTHER PAVED AREAS WITHIN 1,000 FEET OF THE SITE.

ON LARGE COMMERCIAL, HIGHWAY, AND ROAD PROJECTS, THE DESIGNER AND OR CONTRACTOR SHOULD INCLUDE ENOUGH MATERIALS IN THE CONTRACT TO ALLOW FOR ADDITIONAL STABILIZED ENTRANCES NOT SHOWN IN THE INITIAL CONSTRUCTION SWPPP. IT IS DIFFICULT TO DETERMINE EXACTLY WHERE ACCESS TO THESE PROJECTS WILL TAKE PLACE; ADDITIONAL MATERIALS WILL ENABLE THE CONTRACTOR TO INSTALL THEM WHERE NEEDED.

DESIGN AND INSTALLATION: SEE FIGURE 7.3.2 OF THE EASTERN WATER STORMWATER MANAGEMENT MANUAL OR DETAIL BELOW.

THE SURFACE MATERIAL SHALL BE 4"-8" QUARRY SPALLS. SMALLER CRUSHED ROCK SUCH AS BASE COURSE MAY BE APPROPRIATE IN SOME SITUATIONS BUT, SINCE IT IS MORE LIKELY TO BE TRACKED OFF-SITE, MUST BE APPROVED BY THE LOCAL JURISDICTION.

A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

GRAB TENSILE STRENGTH (ASTM D4751)	200 PSI MIN.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX.
MULLEN BURST STRENGTH (ASTM D3786-80A)	400 PSI MIN.
AOS (ASTM D4751)	20-45 (U.S. STANDARD SIEVE SIZE)

IF SITE CONDITIONS DO NOT WARRANT THE USE OF GEOTEXTILE, IT IS NOT REQUIRED.

MAINTENANCE STANDARDS: IF QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

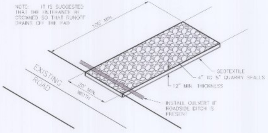
IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.

ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED BY SHOVELING OR STREET SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED RO STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS. THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED.

ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD, WHICH END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.

IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTERANCE(S), FENCING (SEE BMPS C103 AND C104) SHALL BE INSTALLED TO CONTROL TRAFFIC.

UPON PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.



ROCK CONSTRUCTION ENTRY (2)

NOT TO SCALE

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1779A
DATE ACCEPTED: 08-19-15
ACCEPTANCE EXPIRES: 08-19-17
PROJECTS LANE MILES: PUBLIC: .58
PROJECT LANE MILES PRIVATE: ∅
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

NAVD 88 DATUM
BASED ON FOUND B.M. NO. 62 PER SPOKANE VALLEY INTERCEPTOR PLANS CONSTRUCTION PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC. ELEVATION=2056.00

NO.	DATE	BY	REVISIONS
-	06/22/15	NJH	ORIGINAL PREPARATION

SCALE:	
HORIZONTAL:	N/A
VERTICAL:	N/A

PROJ #:	15-1393
DATE:	06/22/15
DRAWN:	NJH
REVIEWED:	TRW

CIVIL / STRUCTURAL / SURVEYING / TRAFFIC / PLANNING / LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
2528 NORTH SULLIVAN ROAD
SPOKANE VALLEY, WA 99216
PH 509-893-2617 FAX 509-926-0227

BARKER ROAD IMPROVEMENTS
EROSION CONTROL BMP'S
BARKER ROAD
GREENACRES, WA

SHEET C9.2
JOB NUMBER 15-1393

BMP C220: STORM DRAIN INLET PROTECTION

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL, 2004 EDITION

PURPOSE: TO PREVENT COARSE SEDIMENT FROM ENTERING DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

CONDITIONS OF USE: WHERE STORM DRAIN INLETS ARE TO BE MADE OPERATIONAL BEFORE PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA, PROTECTION SHOULD BE PROVIDED FOR ALL STORM DRAIN INLETS DOWNSLOPE AND WITHIN 500 FEET OF A DISTURBED OR CONSTRUCTION AREA, UNLESS THE RUNOFF THAT ENTERS THE CATCH BASIN WILL BE CONVEYED TO A SEDIMENT POND OR TRAP. INLET PROTECTION MAY BE USED ANYWHERE TO PROTECT THE DRAINAGE SYSTEM. IT IS LIKELY THAT THE DRAINAGE SYSTEM WILL REQUIRE CLEANING.

TABLE 7.3.5 (IN THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL) LISTS SEVERAL OPTIONS FOR INLET PROTECTION. ALL OF THE METHODS FOR STORM DRAIN INLET PROTECTION ARE PRONE TO PLUGGING AND REQUIRE A HIGH FREQUENCY OF MAINTENANCE. DRAINAGE AREAS SHOULD BE LIMITED TO 1 ACRE OR LESS. EMERGENCY OVERFLOWS MAY BE REQUIRED WHERE STORMWATER PONDING WOULD CAUSE A HAZARD. IF AN EMERGENCY OVERFLOW IS PROVIDED, ADDITIONAL END-OF-PIPE TREATMENT MAY BE REQUIRED.

DESIGN AND INSTALLATION: EXCAVATED DROP INLET PROTECTION – AN EXCAVATED IMPOUNDMENT AROUND THE STORM DRAIN. SEDIMENT SETTLES OUT OF THE STORMWATER PRIOR TO ENTERING THE STORM DRAIN.

- DEPTH 1–2 FT AS MEASURED FROM THE CREST OF THE INLET STRUCTURE.
- SIDE SLOPES OF EXCAVATION NO STEEPER THAN 2:1.
- MINIMUM VOLUME OF EXCAVATION 35 CUBIC YARDS.
- SHAPE THE BASIN TO FIT THE SITE WITH THE LONGEST DIMENSION ORIENTED TOWARD THE LONGEST INFLOW AREA.
- INSTALL PROVISIONS FOR DRAINING TO PREVENT STANDING WATER PROBLEMS.
- CLEAR THE AREA OF ALL DEBRIS.
- GRADE THE APPROACH TO THE INLET UNIFORMLY.
- DRILL WEEP HOLES INTO THE SIDES OF THE INLET.
- PROTECT WEEP HOLES WITH SCREEN WIRE AND WASHED AGGREGATE.
- SEAL WEEP HOLES WHEN REMOVING STRUCTURE AND STABILIZING AREA.
- IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE TO THE DOWN SLOPE STRUCTURE TO PREVENT BYPASS FLOW.

BLOCK AND GRAVEL FILTER – A BARRIER FORMED AROUND THE STORM DRAIN INLET WITH STANDARD CONCRETE BLOCKS AND GRAVEL. SEE FIGURE 4.15 IN THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL.

- HEIGHT 1–2 FT ABOVE THE INLET.
- RECESS THE FIRST ROW 2" INTO THE GROUND FOR STABILITY.
- SUPPORT SUBSEQUENT COURSES BY PLACING A 2X4 THROUGH THE BLOCK OPENING.
- DO NOT USE MORTAR.
- LAY SOME BLOCKS IN THE BOTTOM ROW ON THEIR SIDE FOR DEWATERING THE POOL.
- PLACE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS OVER ALL BLOCK OPENINGS.
- PLACE GRAVEL JUST BELOW THE TOP OF BLOCKS ON SLOPES 2:1 OR FLATTER.
- AN ALTERNATIVE DESIGN IS A GRAVEL DONUT.
- INLET SLOPE OF 3:1.
- OUTLET SLOPE OF 2:1.
- 1-FOOT WIDE LEVEL STONE AREA BETWEEN THE STRUCTURE AND THE INLET.
- INLET SLOPES STONES 3" IN DIAMETER OR LARGER.
- OUTLET SLOPE USE GRAVEL 1/2" TO 3/4" AT A MINIMUM THICKNESS OF 1 FOOT.

GRAVEL AND WIRE MESH INLET – A GRAVEL BARRIER PLACED OVER TOP OF THE INLET. THIS STRUCTURE DOES NOT PROVIDE AND OVERFLOW.

- HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS.
- COARSE AGGREGATE.
- HEIGHT 1 FOOT OR MORE, 18" WIDER THAN INLET ON ALL SIDES.
- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE.
- IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS.
- PLACE COARSE AGGREGATE OVER THE WIRE MESH.
- THE DEPTH OF THE GRAVEL SHOULD BE AT LEAST 12" OVER THE ENTIRE INLET OPENING AND EXTEND AT LEAST 18" ON ALL SIDES.

DESIGN AND INSTALLATION CONTINUED: CATCH BASIN FILTERS – INSERTS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES. THE LIMITED SEDIMENT STORAGE CAPACITY INCREASES THE AMOUNT OF INSPECTION AND MAINTENANCE REQUIRED, WHICH MAY BE DAILY FOR HEAVY SEDIMENT LOADS. THE MAINTENANCE REQUIREMENTS CAN BE REDUCED BY COMBINING A CATCH BASIN FILTER WITH ANOTHER TYPE OF INLET PROTECTION. THIS TYPE OF INLET PROTECTION PROVIDES FLOW BYPASS WITHOUT OVERFLOW AND THEREFORE MAY BE A BETTER METHOD FOR INLETS LOCATED ALONG ACTIVE RIGHTS-OF-WAY.

- 5 CUBIC FEET OF STORAGE.
- DEWATERING PROVISIONS.
- HIGH-FLOW BYPASS THAT WILL NOT CLOG UNDER NORMAL USE AT A CONSTRUCTION SITE.
- THE CATCH BASIN FILTER IS INSERTED IN THE CATCH BASIN JUST BELOW THE GRATING.

CURB INLET PROTECTION WITH WOODEN WEIR – BARRIER FORMED AROUND CURB INLET WITH A WOODEN FRAME AND GRAVEL.

- WIRE MESH WITH 1/2" OPENINGS.
- EXTRA STRENGTH FILTER FABRIC TO THE FRAME.
- PILE COARSE WASHED AGGREGATE AGAINST THE WIRE/FABRIC.
- PLACE WEIGHT ON FRAME ANCHORS.

BLOCK AND GRAVEL CURB INLET PROTECTION – BARRIER FORMED AROUND AN INLET WITH CONCRETE BLOCKS AND GRAVEL. SEE FIGURE 7.3.16 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL.

- WIRE MESH WITH 1/2" OPENINGS.
- PLACE 2 CONCRETE BLOCKS ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. THESE ARE SPACER BLOCKS.
- PLACE A 2X4 STUD THROUGH THE OUT HOLES OF EACH SPACER BLOCK TO ALIGN THE FRONT BLOCKS.
- PLACE BLOCKS ON THEIR SIDES ACROSS THE FRONT OF THE INLET AND ABUTTING THE SPACER BLOCKS.
- PLACE WIRE MESH OVER THE OUTSIDE VERTICAL FACE.
- PILE COARSE AGGREGATE AGAINST THE WIRE TO THE TOP OF THE BARRIER.

CURB AND GUTTER SEDIMENT BARRIER – SANDBAG OR ROCK BERM (RIPRAP AND AGGREGATE) 3 FEET HIGH AND 3 FEET WIDE IN A HORSESHOE SHAPE. SEE FIGURE 7.3.17 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL.

- CONSTRUCT HORSESHOE SHAPED BERM, FACED WITH COARSE AGGREGATE IF USING RIPRAP, 3 FEET HIGH AND 3 FEET WIDE, AT LEAST 2 FEET FROM THE INLET.
- CONSTRUCT A HORSESHOE SHAPED SEDIMENTATION TRAP ON THE OUTSIDE OF THE BERM SIZED TO SEDIMENT TRAP STANDARDS FOR PROTECTING A CULVERT INLET.

MAINTENANCE STANDARDS:

- CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE INSERT BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
- FOR SYSTEMS USING STONE FILTERS: IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED. SINCE CLEANING OF GRAVEL AT CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE USED TO USE THE CLOGGED STONES FILL AND PUT FRESH STONE AROUND THE INLET.
- DO NOT WASH SEDIMENT INTO STORM DRAINS WHILE CLEANING. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA STOCKPILE AND STABILIZE AS APPROPRIATE.

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH INLET SEDIMENT FILTER (3)

NOT TO SCALE

BMP C151: CONCRETE HANDLING

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL, 2004 EDITION

PURPOSE: CONCRETE WORK CAN GENERATE PROCESS WATER AND SLURRY THAT CONTAIN FINE PARTICLES AND HIGH PH, BOTH OF WHICH CAN VIOLATE WATER QUALITY STANDARDS IN THE RECEIVING WATER. THIS BMP IS INTENDED TO MINIMIZE AND ELIMINATE CONCRETE PROCESS WATER AND SLURRY FROM ENTERING WATERS OF THE STATE.

CONDITIONS OF USE: ANY TIME CONCRETE IS USED, THESE MANAGEMENT PRACTICES SHALL BE UTILIZED. CONCRETE CONSTRUCTION PROJECTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- CURBS
- SIDEWALKS
- ROADS
- BRIDGES
- FOUNDATIONS
- FLOORS
- RUNWAYS

DESIGN AND INSTALLATION: CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.

UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.

HAND TOOLS INCLUDING, BUT NOT LIMITED TO, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT.

EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN AREAS THAT DO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.

WASHDOWN FROM AREAS SUCH AS CONCRETE AGGREGATE DRIVEWAYS SHALL NOT DRAIN DIRECTLY TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.

WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.

MAINTENANCE STANDARDS: CONTAINERS SHALL BE CHECKED FOR HOLES IN THE LINER DAILY DURING CONCRETE POURS AND REPAIRED THE SAME DAY.

CONCRETE TRUCK WASHOUT STANDARDS (4)

NOT TO SCALE

BMP C140: DUST CONTROL

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL, 2004 EDITION

PURPOSE: DUST CONTROL PREVENTS WIND TRANSPORT OF DUST FROM DISTURBED SOIL SURFACES ONTO ROADWAYS, DRAINAGE WAYS, AND SURFACE WATERS. WIND EROSION IS A SIGNIFICANT CAUSE OF SOIL MOVEMENT FROM CONSTRUCTION SITES IN EASTERN WASHINGTON. ALTHOUGH WIND EROSION CAN CONTRIBUTE TO WATER QUALITY IMPACTS, DUST CONTROL IS REGULATED IN MANY AREAS OF EASTERN WASHINGTON PRIMARILY THROUGH LOCAL AIR QUALITY AUTHORITIES. WHERE SUCH AN ENTITY EXISTS, CONTACT THE LOCAL AIR QUALITY AUTHORITY FOR APPROPRIATE AND REQUIRED BMPS FOR DUST CONTROL TO IMPLEMENT AT YOUR PROJECT SITE.

CONDITIONS OF USE: IN AREAS (INCLUDING ROADWAYS) SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON-SITE AND OFF-SITE IMPACTS TO ROADWAYS, DRAINAGE WAYS, SURFACE WATERS ARE LIKELY.

DESIGN AND INSTALLATION: CONTACT YOUR LOCAL AIR POLLUTION CONTROL AUTHORITY FOR GUIDANCE AND TRAINING ON OTHER DUST CONTROL MEASURES. COMPLIANCE WITH THE LOCAL AIR POLLUTION CONTROL AUTHORITY CONSTITUTES COMPLIANCE WITH THIS BMP.

WATER APPLIED TO CONSTRUCTION SITES FOR DUST CONTROL MUST NOT LEAVE THE SITE AS SURFACE RUNOFF.

SEE ALSO "TECHNIQUES FOR DUST PREVENTION AND SUPPRESSION," ECOLOGY PUBLICATION NUMBER 96-433, REVISED APRIL 2002.

TECHNIQUES THAT CAN BE USED FOR CONSTRUCTION PROJECTS INCLUDE:

VEGETATE OR MULCH AREAS THAT WILL NOT RECEIVE VEHICLE TRAFFIC. IN AREAS WHERE PLANTING, MULCHING, OR PAVING IS IMPRACTICAL, APPLY GRAVEL OR LANDSCAPING ROCK.

LIMIT DUST GENERATION BY CLEARING ONLY THOSE AREAS WHERE IMMEDIATE ACTIVITY WILL TAKE PLACE, LEAVING THE REMAINING AREA(S) IN THE ORIGINAL CONDITION, IF STABLE. MAINTAIN THE ORIGINAL GROUND COVER AS LONG AS PRACTICAL.

CONSTRUCT NATURAL OR ARTIFICIAL WINDBREAKS OR WINDSCREENS. THESE MAY BE DESIGNED AS ENCLOSURES FOR SMALL DUST SOURCES.

SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED. TO PREVENT CARRYOUT OF MUD ONTO STREETS, REFER TO STABILIZED CONSTRUCTION ENTRANCE (BMP C105).

IRRIGATION WATER CAN BE USED FOR DUST CONTROL. IRRIGATION SYSTEMS SHOULD BE INSTALLED AS A FIRST STEP ON SITES WHERE DUST CONTROL IS A CONCERN.

SPRAY EXPOSED SOIL AREAS WITH A DUST PALLIATIVE, FOLLOWING THE MANUFACTURER'S INSTRUCTIONS AND CAUTIONS REGARDING HANDLING AND APPLICATION. USED OIL IS PROHIBITED FROM USE AS A DUST SUPPRESSANT. LOCAL GOVERNMENTS MAY APPROVE OTHER DUST PALLIATIVES SUCH AS CALCIUM CHLORIDE OR PAM.

PAM (BMP C126) ADDED TO WATER AT A RATE OF 0.5 LBS PER 1,000 GALLONS OF WATER PER ACRE AND APPLIED FROM A WATER TRUCK IS MORE EFFECTIVE THAN WATER ALONE. THIS IS DUE TO THE INCREASED INFILTRATION OF WATER INTO THE SOIL AND REDUCED EVAPORATION. IN ADDITION, SMALL SOIL PARTICLES ARE BONDED TOGETHER AND ARE NOT AS EASILY TRANSPORTED BY WIND. ADDING PAM MAY ACTUALLY REDUCE THE QUANTITY OF WATER NEEDED FOR DUST CONTROL, ESPECIALLY IN EASTERN WASHINGTON. SINCE THE EFFICIENT COST OF PAM IS ABOUT $4.00 PER POUND, THIS IS AN EXTREMELY COST-EFFECTIVE DUST CONTROL METHOD.

TECHNIQUES THAT CAN BE USED FOR UNPAVED ROADS AND LOTS INCLUDE:

- LOWER SPEED LIMITS. HIGH VEHICLE SPEEDS INCREASES THE AMOUNT OF DUST STIRRED UP FROM UNPAVED ROADS AND LOTS.
- UPGRADE ROAD SURFACE STRENGTH BY IMPROVING PARTICLE SIZE, SHAPE, AND MINERAL TYPES THAT MAKE UP THE SURFACE AND BASE MATERIALS.
- ADD SURFACE GRAVEL TO REDUCE THE SOURCE OF DUST EMISSION. LIMIT THE AMOUNT OF FINE PARTICLES (THOSE SMALLER THAN .075 MILLIMETERS) TO 10 TO 20 PERCENT.
- USE GEOTEXTILE FABRIC TO INCREASE THE STRENGTH OF NEW ROADS OR ROADS UNDERGOING RECONSTRUCTION.
- ENCOURAGE THE USE OF ALTERNATE, PAVED ROUTES, IF AVAILABLE.
- RESTRICT USE BY TRACKED VEHICLES AND HEAVY TRUCKS TO PREVENT DAMAGE TO ROAD SURFACE AND BASE.
- APPLY CHEMICAL DUST SUPPRESSANTS USING THE ADMIX METHOD, BLENDING THE PRODUCT WITH THE TOP FEW INCHES OF MATERIAL. SUPPRESSANTS MAY ALSO BE APPLIED AS SURFACE TREATMENTS.
- PAVE UNPAVED PERMANENT ROADS AND OTHER TRAFFICKED AREAS.
- USE VACUUM STREET SWEEPERS.
- REMOVE MUD AND OTHER DIRT PROMPTLY SO IT DOES NOT DRY AND THEN TURN INTO DUST.
- LIMIT DUST-CAUSING WORK ON WINDY DAYS.

MAINTENANCE STANDARDS: SPRAY AREA AS NECESSARY TO KEEP DUST TO A MINIMUM. WATER APPLIED TO CONSTRUCTION SITES FOR DUST CONTROL MUST NOT LEAVE THE SITE AS SURFACE RUNOFF.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: C-1229A
DATE ACCEPTED: 10-19-15
ACCEPTANCE EXPIRES: 10-19-17
PROJECT'S LANE MILES PUBLIC: .38
PROJECT LANE MILES PRIVATE: 0

NAVD 88 DATUM

BASED ON SPOKANE COUNTY BENCHMARK ... ELEVATION=2018.03

NO.	DATE	BY	REVISIONS
	09/22/15	NJH	ORIGINAL PREPARATION

SCALE:	
HORIZONTAL:	N/A
VERTICAL:	N/A

PROJ #:	15-1393
DATE:	09/22/15
DRAWN:	NJH
REVIEWED:	TRW

WCE

BARKER ROAD IMPROVEMENTS
EROSION CONTROL BMP'S
BARKER ROAD
GREENACRES, WA

SHEET C9.3

JOB NUMBER 15-1393

MEADOWVIEW TERRACE

FIRST ADDITION
STREET AND DRAINAGE PLANS

SECTION 20, T.25 N., R.45 E., W.M.
SPOKANE COUNTY, WASHINGTON

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER. ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN SPOKANE COUNTY REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY ENGINEER OF RECORD.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH SPOKANE COUNTY AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH M.U.T.C.D. TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (SPOKANE COUNTY) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, AND AVAILABLE TO THE SPOKANE COUNTY INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE RECORD DRAWINGS.

14. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.

16. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY IS SUBJECT TO THE JURISDICTION OF THE SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. THE CONTRACTOR SHALL SUBMIT A PHASING PLAN FOR ALL WORK IN PUBLIC ROADS AND R.O.W.'S TO SPOKANE COUNTY BEFORE BEGINNING ANY WORK ON THESE ROADS. CONTRACTOR SHALL BEGIN WORK ONLY AFTER SPOKANE COUNTY APPROVES THE PHASING PLAN, AND A PRECONSTRUCTION MEETING IS HELD BETWEEN SPOKANE COUNTY, THE ENGINEER AND THE CONTRACTOR.

18. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE PERIOD BETWEEN 6:00 A.M. AND 10:00 P.M. EVERYDAY UNLESS OTHERWISE APPROVED BY SPOKANE COUNTY.

19. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE SPOKANE COUNTY ENGINEER AND NOTIFICATION OF THE ENGINEER OF RECORD.

20. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTOR'S SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

NAVD'88 DATUM

BASED ON FOUND B.M. NO. 57
REF. SPOKANE VALLEY ...
PLANS, CONSTRUCTION PACKAGE ...
SURVEYED BY ...
ELEVATION ...

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

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

VICINITY MAP

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SWALE DETAILS	SHEET 19

LEGEND

EXISTING	GENERAL	PROPOSED
	ROADWAY CENTER LINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	FENCE	
	CURB	
	PAVEMENT	
	GRAVEL	
	CONCRETE	
	BUILDINGS & STRUCTURES	
	SANITARY SEWER	
	SANITARY SEWER	
	MANHOLE	
	CLEANOUT	
	SEWER SERVICE	
	WATER	
	WATER LINE	
	VALVE	
	FIRE HYDRANT	
	SERVICE	
	METER	
	BLOWOFF	
	AIR VACUUM RELIEF STATION	
	STORM DRAINAGE	
	DRAINAGE LINE	
	MAN-HOLE	
	DRYWELL	
	CATCH BASIN	
	DITCH	
	NATURAL GAS	
	GAS LINE	
	VALVE	
	METER	
	TELEPHONE – POWER	
	BURIED TELEPHONE	
	POWER OR TELEPHONE POLE	
	BURIED POWER	
	TRANSFORMER PAD	
	TELEPHONE RISER	
	TELEPHONE VAULT	
	OVERHEAD POWER	
	GUY ANCHOR	
	POWER VAULT	
	LIGHT POLE	

ABBREVIATIONS

ACT. L.	ACTUAL LENGTH
B'DRY	BOUNDARY
CO	SEWER CLEANOUT
CT	COURT
DIA.	DIAMETER
EL	ELEVATION
EXIST	EXISTING
G	GRADE
HYD	HYDRANT
I.E.	INVERT ELEVATION
LN	LANE
LT	LEFT
MH	MANHOLE
PC	POINT OF CURVE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
RD	ROAD
RIM EL	RIM ELEVATION
RT	RIGHT
SAN	SANITARY SEWER
S	STREET INTERSECTION
STA	STATION
STA L.	STATION LENGTH
WM	WATER MAIN
W/	WITH
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA)
BC	BACK OF CURB

STORM DRAINAGE NOTES

1. SEE STREET PLAN AND PROFILE SHEETS FOR MANHOLE AND CATCH BASIN TYPES AND LOCATIONS.

2. PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL PONDS WITHIN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO SPOKANE COUNTY POND IRRIGATION SYSTEM GUIDELINES.

3. ALL PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

4. CONTRACTOR SHALL PROVIDE SPOKANE COUNTY WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL POND CONSTRUCTION.

5. ALL PONDS WITHIN THE COUNTY RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE PONDS FOLLOWING THE ROAD PAVING WORK.

6. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS, THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

7. ALL LANDSCAPE AREAS ARE TO BE IRRIGATED BY AN AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY.

SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED.

LAWN AREAS: LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING).

ADJUSTMENTS: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.

WATER POWER SUPPLY: THE OWNER/ GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1779A
DATE ACCEPTED: 06-23-03
ACCEPTANCE EXPIRES: 06-23-2004
PROJECT LANE MILES PUBLIC: ...
PROJECT LANE MILES PRIVATE: ...
ANY ACTION OR IMPROVEMENT ... PERMIT REQUIRED ...

STREET GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1995", AND AS AMENDED.

2. 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 SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.

3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

4. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, TODD WHIPPLE, @ 458-6840, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, ... INC., PAUL NILSON, P.E., @ 534-9711 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.

6. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.

7. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND MANHOLES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.

IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE MANHOLES OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER.

8. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

9. FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

10. PRIOR TO CONSTRUCTION CONTRACTOR SHALL COORDINATE WITH ADJACENT LANDOWNERS REGARDING LANDOWNERS ACCESS TO THEIR PROPERTIES DURING 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.

Dwight Walker (signature) — 6-19-03
DEVELOPER'S APPROVAL — DATE

CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
SPOKANE COUNTY, WASHINGTON

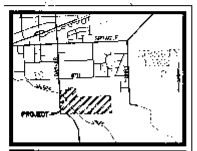
DATE / DESCRIPTION
06/23/03 ORIGINAL PREPARATION
06/09/03 REVISED SUBMITTAL SPOKANE COUNTY

STREET COVER SHEET

PROJECT #
DRAWN BY:
DESIGNED BY: KJD
CHECKED BY: TBW

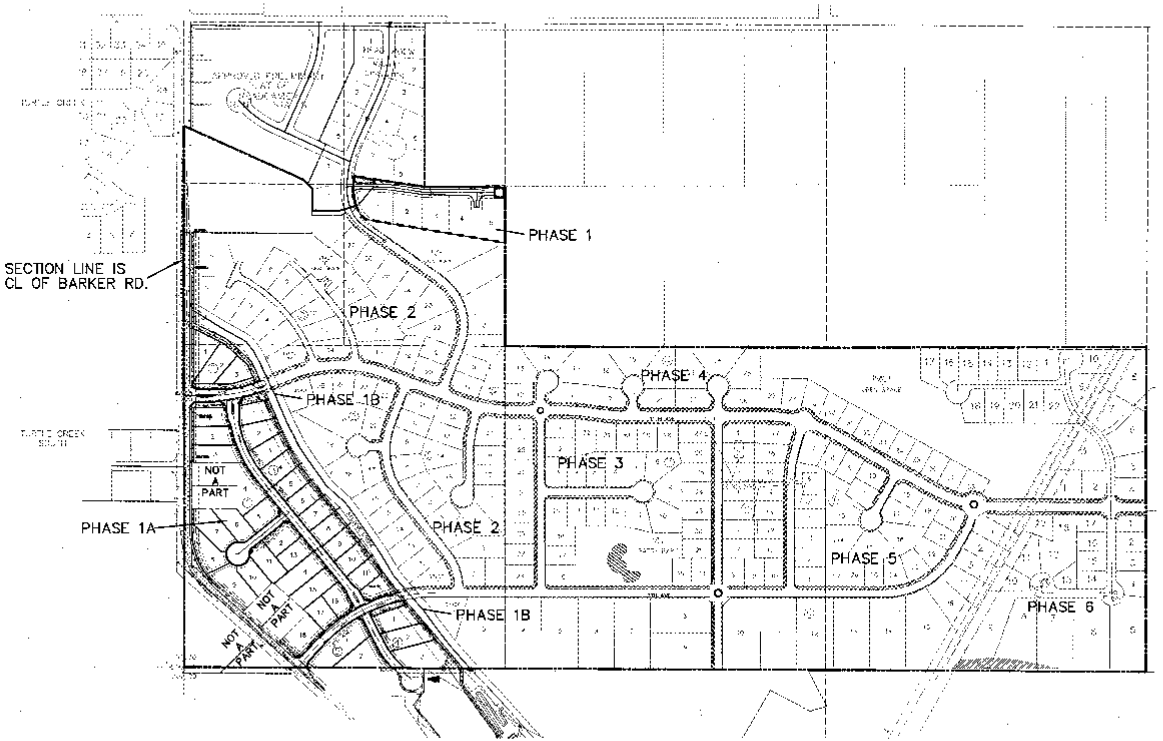
1 OF 19

P-1779A Eng Road Drainage



VICINITY MAP

THIS SHEET IS FOR INFORMATION ONLY



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-17798
DATE ACCEPTED: 06-23-03
ACCEPTANCE EXPIRES: 06-23-05
PROJECT LANE MILES PUBLIC: 0.6
PROJECT LANE MILES PRIVATE: 0.6
PERMIT REQUIRED FOR ALL WORK WITHIN THE ROAD RIGHT-OF-WAY. ROAD RIGHT-OF-WAY INCLUDES ROADWAY, SHOULDERS, SIDEWALKS, AND DRAINAGE FACILITIES. PERMIT REQUIRED FOR ALL WORK WITHIN THE ROAD RIGHT-OF-WAY. ROAD RIGHT-OF-WAY INCLUDES ROADWAY, SHOULDERS, SIDEWALKS, AND DRAINAGE FACILITIES FOR MORE INFORMATION CONTACT THE ENGINEERING DEPARTMENT AT 509-477-3600
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT ENGINEER 48 TO 72 BUSINESS DAYS PRIOR TO START OF WORK ACTIVITY

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

CAUTION: NOTIFY 1-1 CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THIS PLAN IS BASED ON INFORMATION OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19

DEVELOPER'S APPROVAL

6-9-03
DATE

NORTH 200 0 100 200
SCALE: 1" = 200'

P-17798 Eng Rev & Drainage

ELC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
SPOKANE COUNTY, WASHINGTON

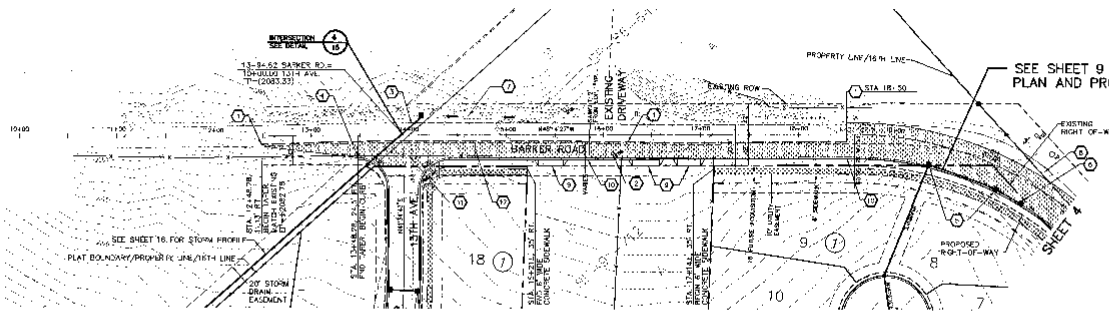
DATE	DESCRIPTION
7-23-03	CENTRAL REPRESENTATION
6-4-03	SECOND SUBMITTAL SPOKANE COUNTY

STREET OVERALL PLAN

PROJECT #0201044A
DRAWN BY: KJG
DESIGNED BY: KJG
CHECKED BY: TJW

2 OF 19

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON



SEE SHEET 9 FOR STORM PLAN AND PROFILE

CONSTRUCTION NOTES

1. SAWCUT EXISTING ACP. TACKCOAT PRIOR TO PLACING NEW ACP. NEW ACP SHALL MATCH SAWCUT.
2. COORDINATE RELOCATION OF EXISTING UTILITIES AND POWER POLE WITH UTILITY COMPANIES AS REQUIRED.
3. REMOVE AND REPLACE ACP AS REQUIRED FOR INSTALLATION OF STORM DRAIN PIPE. CONTRACTOR SHALL MATCH THE EXISTING STRUCTURAL SECTION.
4. MATCH CURB TO EXISTING ACP PER DETAIL B, SHEET 17.
5. INSTALL SPOKANE COUNTY TYPE 1 INLET AND TYPE 2 GRATE PER SPOKANE COUNTY STANDARD PLAN B-10 AND B-13.
6. INSTALL SPOKANE COUNTY CATCH BASIN TYPE 1 AND INLET TYPE 1 WITH TYPE 2 GRATE PER SPOKANE COUNTY STANDARD DETAIL R-4.8-10, AND B-13. SEE SHEET 17 FOR INLET APRON DETAIL.
7. SEE SHEET 16 FOR EXISTING DITCH RECONSTRUCTION.
8. REMOVE EXISTING ASPHALT. SEE SHEET 16 FOR CROSS-SECTION.
9. URBAN DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4, STA. 15+46 RT. @ 26' WIDE, STA. 16+44 RT. @ 28' WIDE, AND STA. 18+88 RT. @ 24' WIDE.
10. CURB AND GUTTER TYPE B PER SPOKANE COUNTY STANDARD PLAN A-5.
11. REMOVE EXISTING BARB WIRE FENCE.
12. REMOVE AND RELOCATE SIGN.

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C11	350.00	294.77	158.76	286.15	48°-15'18"
C21	30.00	47.03	29.81	42.36	89°46'11"
C22	30.00	46.83	29.58	41.78	89°37'49"

WARNING !!!
NATURAL GAS PIPELINE APPROXIMATELY
20' EAST OF BARKER ROAD CENTERLINE
BEFORE DIGGING IN VICINITY CALL 456-8000 OR IN
EMERGENCY CALL AVISTA UTILITIES AT 489-0500

LEGEND

NEW ASPHALT

◆ NAVD'88 DATUM
BASED ON FOUND U.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, RY RAYAY ENGINEERS, INC.
ELEVATION - 2036.00

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

CAUTION: NOTICE TO CONTRACTOR

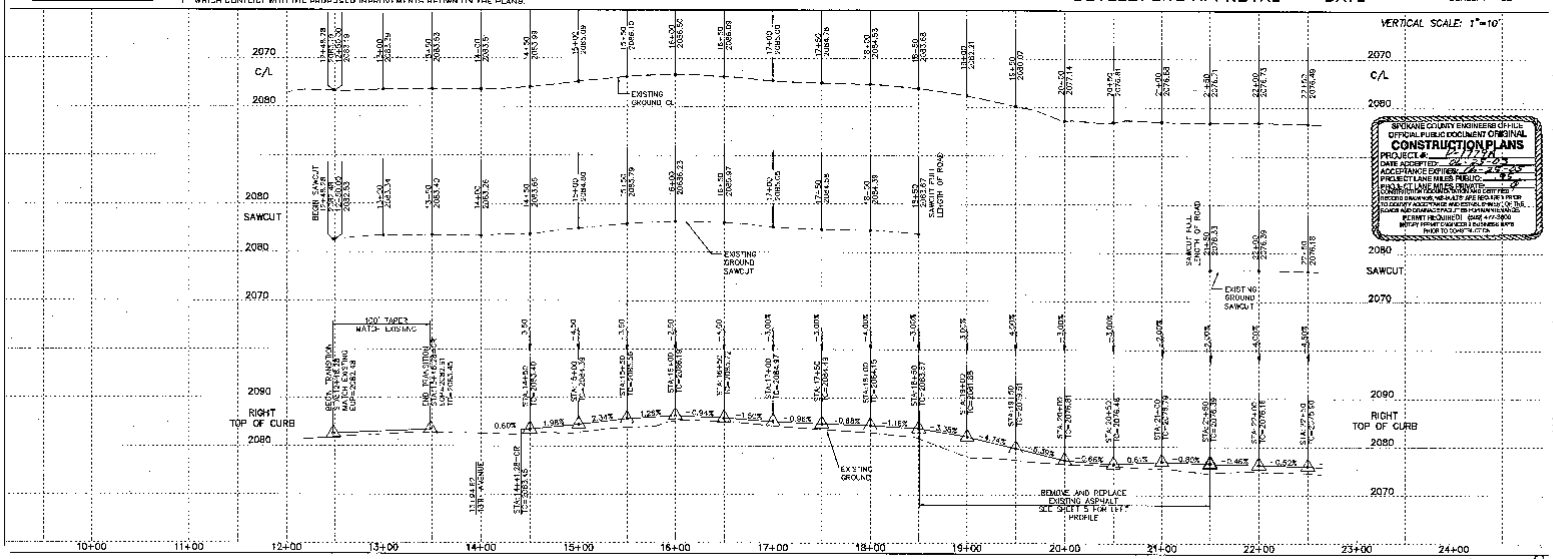
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS HAVE BEEN TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE UNDERGROUND UTILITY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19.

DEVELOPER'S APPROVAL — DATE 6-9-03

NORTH — SCALE: 1" = 50'

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1779A
DATE ADOPTED: 06-23-03
ACCEPTANCE EXPIRES: 06-23-05
PROJECT LANE MILES PUBLIC: 0.6
PRIVATE LANE MILES PRIVATE: 0
CONSTRUCTION PLANS EXPIRE AND BECOME INVALID UNLESS ENGINEER HAS SUBMITTED AND CERTIFIED RECORD DRAWINGS, AND SUBMITTED AND ESTABLISHED THE 10 COUNTY ACCEPTANCE AND ESTABLISHED THE 10 YR. DATE OF ACCEPTANCE, PER SPOKANE COUNTY STANDARDS.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CLC ASSOCIATES
INC.
ENGINEERS • PLANNERS • SURVEYORS
SPOKANE, WASHINGTON

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
BARKER ROAD - STA. 10+00 TO 22+50-RIGHT
SPOKANE COUNTY, WASHINGTON

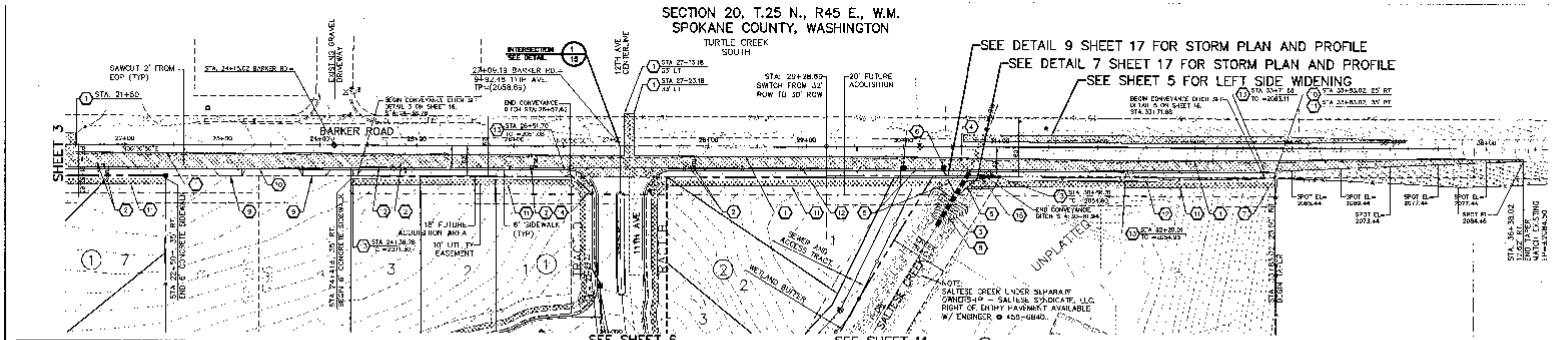
DATE	DESCRIPTION
01-15-03	ORIGINAL PREPARATION
1-21-03	REALIGNED BARKER RD PER COUNTY
4-24-03	REVISED
05-20-03	SECOND REVISION TO FINAL SPOKANE COUNTY

BARKER RD. PLAN AND PROFILE

PROJECT # 5030045
DRAWN BY: T.H.E./J.R.
DESIGNED BY: BAR
CHECKED BY: TRW

P-1779A Eng Red Drawing

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON



CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C23	30.00	47.13	29.99	42.42	88°35'56"
C24	30.00	47.13	30.01	42.42	90°31'04"

NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR PLANS, (UNOFFICIAL PACKAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC. ELEVATION=2110.00)

WARNING !!!
NATURAL GAS PIPELINE APPROXIMATELY 20' EAST OF BARKER ROAD CENTERLINE BEFORE DIGGING IN VICINITY CALL 456-800 OR IN EMERGENCY CALL AVISTA UTILITIES AT 489-0500

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

CAUTION: NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND ELEVATION OF FACILITIES AND UTILITIES AS SHOWN ON THESE PLANS IS BASED ON MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXTRA CLOSELY ON EXISTING. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO PROVIDE EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CONSTRUCTION NOTES

1. SAWCUT EXISTING ACP. TACKCOAT PRIOR TO PLACING NEW ACP. NEW ACP SHALL MATCH SAWCUT.
2. COORDINATE RELOCATION OF EXISTING UTILITIES AND POWER POLE WITH UTILITY COMPANIES AS REQUIRED.
3. EXTEND EXISTING 54" CULVERT 60 L.F.±, W/ 60"x54" LEAN CONCRETE SPLASH PAD TO INVERT. NOTE: DUE TO MEANDERING NATURE OF CREEK CENTERLINE CONNECTION MAY BE SKEW TO 15° W/APPROPRIATE FITTINGS. IF SKEW IS GREATER THAN OR EQUAL TO 15.1 INSTALL 72" WING.
4. REMOVE AND DISPOSE OF EXISTING GUARDRAIL.
5. INSTALL 10" HDPE STORM DRAIN PIPE. SEE DETAILS 7 AND 9. SHEET 17 FOR PROFILE INFORMATION.
6. INSTALL SPOKANE COUNTY TYPE 1 INLET WITH TYPE 2 GRATE PER SPOKANE COUNTY STANDARD PLAN B-8. SEE INLET APRON DETAIL 1, SHEET 17.
7. COORDINATE RELOCATION OF UTILITY POLE TO MIN. 5 FT. OFF PVMT. EDGE OR 2' BEHIND FACE OF CURB.
8. REGRADE OVER PIPE AT 3:1 SLOPE.
9. URBAN DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. STA. 23+07.85 RT. 24' WIDE, AND STA. 23+94.92 RT 024' WIDE.
10. CURB AND GUTTER TYPE B PER SPOKANE COUNTY STANDARD PLAN A-3.
11. 6' WIDE SIDEWALK, SEE BARKER ROAD CROSS SECTION PER SHEET 15.
12. REMOVE EXISTING BARB WIRE FENCE.
13. CURB INLET TYPE 1 PER SPOKANE COUNTY STANDARD PLAN B-8, L=6'.
14. 8" CMP CULVERT. STA. 26+57.82, 30.02 RT, E(S)=2059.90. STA. 26+79.00 46.93 RT, E(N)=2056.10.
15. INSTALL SPOKANE COUNTY TYPE 1 INLET WITH TYPE 2 GRATE PER SPOKANE COUNTY STANDARD PLAN B-8. STA. 30+81.94, RIM EL=2049.97.

LEGEND

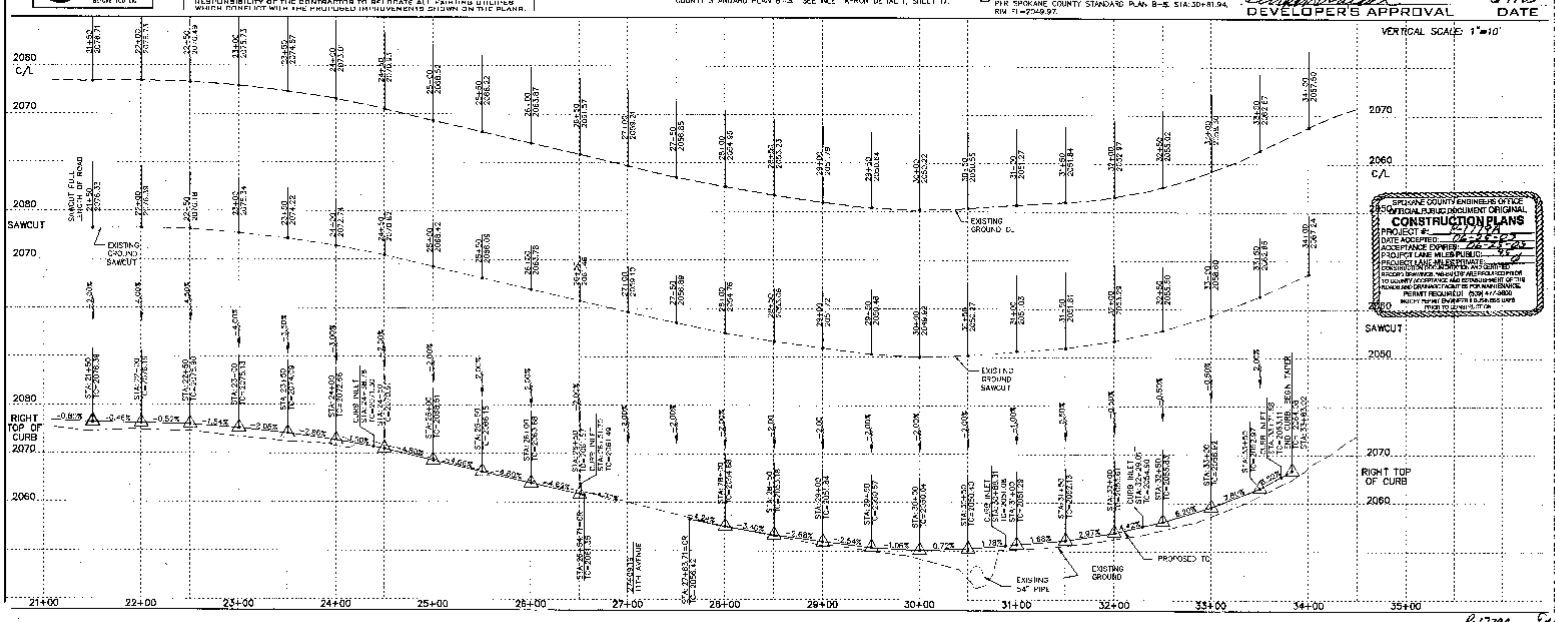
NEW ASPHALT

FOR LEGEND, SEE SHEET 1 OF 19

NORTH 50 0 25 50
SCALE: 1" = 50'

DEVELOPER'S APPROVAL — DATE 6-9-03

VERTICAL SCALE: 1"=10'



SPOKANE COUNTY ENGINEER'S OFFICE
VERIFICATION OF OFFICIAL/PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 03-1-7-1-1
DATE ACCEPTED: 06-25-03
ACCEPTANCE EXPIRES: 06-25-05
PROJECT LANE MILES/PUBLIC: 0
PROJECT LANE MILES/PRIVATE: 0
CONSISTING OF THIS SHEET, AND SUBMITTED BY DEVELOPER'S ENGINEER. REVIEWED FOR CONFORMANCE WITH COUNTY ORDINANCE AND ESTABLISHMENT OF THE BONDS AND GUARANTEE FOR MAINTENANCE.
PERMIT REQUIRED (SCOP 47-0600)
NOTIFY PUBLIC WORKS 3 BUSINESS DAYS PRIOR TO CONSTRUCTION

CLC ASSOCIATES
903 WEST 7TH AVENUE
P.O. BOX 2070
SPOKANE, WASHINGTON 99210-2070
WORK SESSION WEEKS
P.O.B. 509 BATH
SPOKANE, WASHINGTON
(509) 624-4500
(509) 624-4500
PROJECT MANAGER: CHRISTOPHER L. CLARK
LEAD ENGINEER: CHRISTOPHER L. CLARK

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
BARKER ROAD STA. 22+50 TO 33+83 STA. 1+17
SPOKANE COUNTY, WASHINGTON

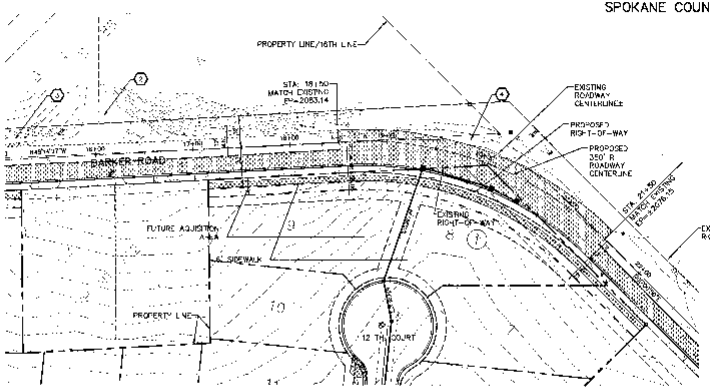
DATE	DESCRIPTION
04-25-03	ORIGINAL PREPARATION
05-30-03	REVISED SUBMITTAL SPOKANE COUNTY

BARKER RD PLAN AND PROFILE

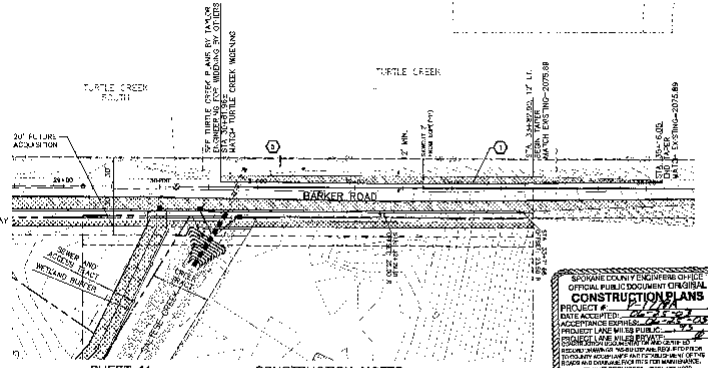
PROJECT #: 03-0001-15
DRAWN BY: LMB, KJG
DESIGNED BY: SAR
CHECKED BY: SAR

P-17790 Eng Bond Drawing

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON



SHEET 6



SHEET 11

◆ NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION=2038.00

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C11	350.00	294.77	156.79	286.14	48°12'18"

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

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR DESIGNATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORD DATA OBTAINED FROM THE UTILITY COMPANIES WHENEVER POSSIBLE. MEASUREMENTS TAKEN IN THE FIELD HAVE BEEN INCORPORATED WHERE RELIEF WAS FOUND EXACT OR COMPLETE. THE CONTRACTOR MUST FIELD VERIFY LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO MINIMIZE SERVICE FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLANS.

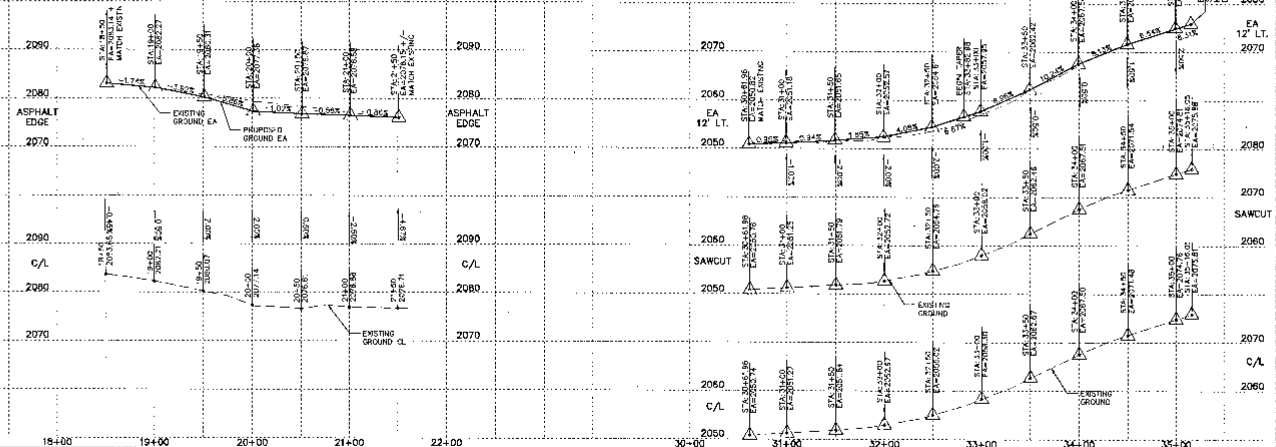
FOR LEGEND, SEE SHEET 1 OF 19

CONSTRUCTION NOTES

1. SAWCUT EXISTING ACP. TACKCOAT PRIOR TO PLACING NEW ACP. NEW ACP MATCH SAWCUT.
2. RESHAPE EXISTING DIRT DRIVEWAY ENTRANCE PER DETAIL 1, ON SHEET 16.
3. REGRADE EXISTING DITCH PER DETAIL 2 ON SHEET 16.
4. REMOVE EXISTING ASPHALT STA: 18+50 – 21+50. SEE SHEET 3 FOR RIGHT PROFILE.
5. STANDARD 527F URBAN DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4.

SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2-1174
DATE ACCEPTED: 06-23-03
ACCEPTANCE EXPIRES: 06-23-05
PROJECT LANE MILES PUBLIC: 0.3
PROJECT LANE MILES PRIVATE: 0
SIGNED: [illegible]
DEVELOPER'S APPROVAL 6-19-03
DATE
NORTH NO SCALE: 1" = 50'

VERTICAL SCALE: 1"=10'



ELC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
BARKER ROAD STA. LEFT WIDENING
SPOKANE COUNTY, WASHINGTON

DATE	REVISIONS
04/28/03	ORIGINAL PREPARATION
12/31/03	REALIGNED BARKER RD. PER COUNTY
1/7/04	REVISED PER COUNTY
06/07/03	RECORD SUBMITTAL-SPOKANE COUNTY

BARKER RD PLAN & PROFILE

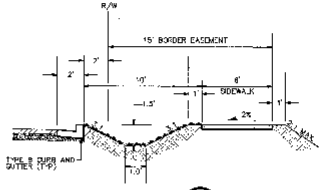
PROJECT #: 03-0045
DRAWN BY: MMM,JJ
DESIGNED BY: GAR
CHECKED BY: TRW

P-17798

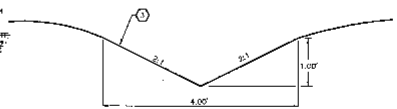
SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. INSTALL WSDOT TYPE 2 GRATE INLET IN TYPE "A" GRATE PER STANDARD PLAN B-4c. SEE INLET APRON DETAIL SHEET 17.
2. INSTALL WSDOT 48" TYPE 2 CATCH BASIN PER STANDARD PLAN B-1a.
3. GRADE SWALE PER DETAIL 1 THIS SHEET FOR STORM SEWER OUTFALL. SWALE WILL BE REMOVED ONCE PHASE 2 HAS BEEN CONSTRUCTED. SWALE LENGTH = 85 LF.
4. INSTALL SPOKANE COUNTY TYPE 1 INLET WITH TYPE 2 GRATE PER SPOKANE STANDARD PLANS B-10 AND R-13. SEE INLET APRON DETAIL 1 SHEET 17.
5. INSTALL BEAM TYPE GUARDRAIL PER WSDOT STANDARD DRAWINGS. SPACE POSTS AT 5' MAX O.C. INSTALL (4) "END OF ROAD" MARKERS (MUTCD OM4-1) AT 10' O.C.
6. 22' DRIVEWAY FOR PRIVATE DRIVE PER SPOKANE COUNTY STANDARD PLAN A-4.
7. 18' DRIVEWAY FOR GRAVEL SEWER ACCESS DRIVE PER SPOKANE COUNTY STANDARD PLAN A-4.
8. INSTALL STOP SIGN/STREET SIGN NAME PER SPOKANE COUNTY STANDARD DETAIL A-16.
9. INSTALL CROSS-GUTTER PER SPOKANE COUNTY STANDARD DETAIL M-18, TYPE 1.
10. CONSTRUCT CURB RAMP PER SPOKANE COUNTY STANDARD DETAIL A-5, DESIGN "B".
11. PLUG-IN DRY LINE TO PLAT BOUNDARY STA 13+20.1', WITH CAP FOR FUTURE STORM SEWER DESIGN.
12. INSTALL SPOKANE COUNTY TYPE 1 INLET ~~WITH TYPE 2 GRATE~~ PER SPOKANE COUNTY STANDARD PLAN B-4 ~~STA 11+00.22, RIM=2064.00, L=2064.00, TC=2066.10~~ 11+10.22 L=6'

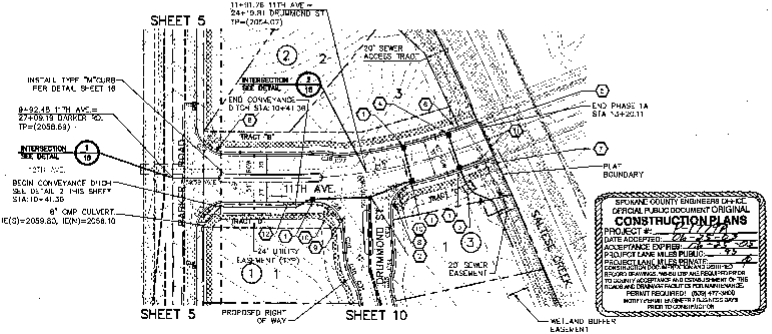


CONVEYANCE DITCH (2)
11TH AVENUE
NOT TO SCALE



SECTION A–A: SWALE DETAIL (1)
NOT TO SCALE

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C12	550.00	205.23	103.82	204.04	21°22'46"
C23	30.00	47.11	29.99	42.43	89°58'56"
C24	30.00	47.15	30.01	42.43	90°01'04"
C26	30.00	11.06	5.58	11.00	21°07'30"
C27	30.00	12.36	6.27	12.27	23°36'13"
C28	30.00	47.53	29.80	42.98	89°48'56"
C32	30.00	40.78	24.24	37.71	77°52'41"



SPOKANE COUNTY ENGINEERS DIVISION
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 17-0168
DATE ADMITTED: 06-25-18
ACCEPTANCE EXPIRES: 06-25-20
PROJECT LANE MILES PUBLIC: 0.75
CONSTRUCTION OF: MEADOWVIEW TERRACE
REVISED DRAWINGS MUST BE MILES REPORTED TO COUNTY ENGINEERS PRIOR TO ACCEPTANCE OF THE TRACKING AND ACCEPTANCE FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
WORK TIMES: M-F BETWEEN 7:00 AM AND 5:00 PM
NEED TO CONTACT INSPECTOR

NAVD'88 DATUM

BASED ON POLYNO R.M. NO. 62
PER SPOKANE VALLEY INTERCONTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY RONAY ENGINEERING, INC.
ELEVATION: 2056.00

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

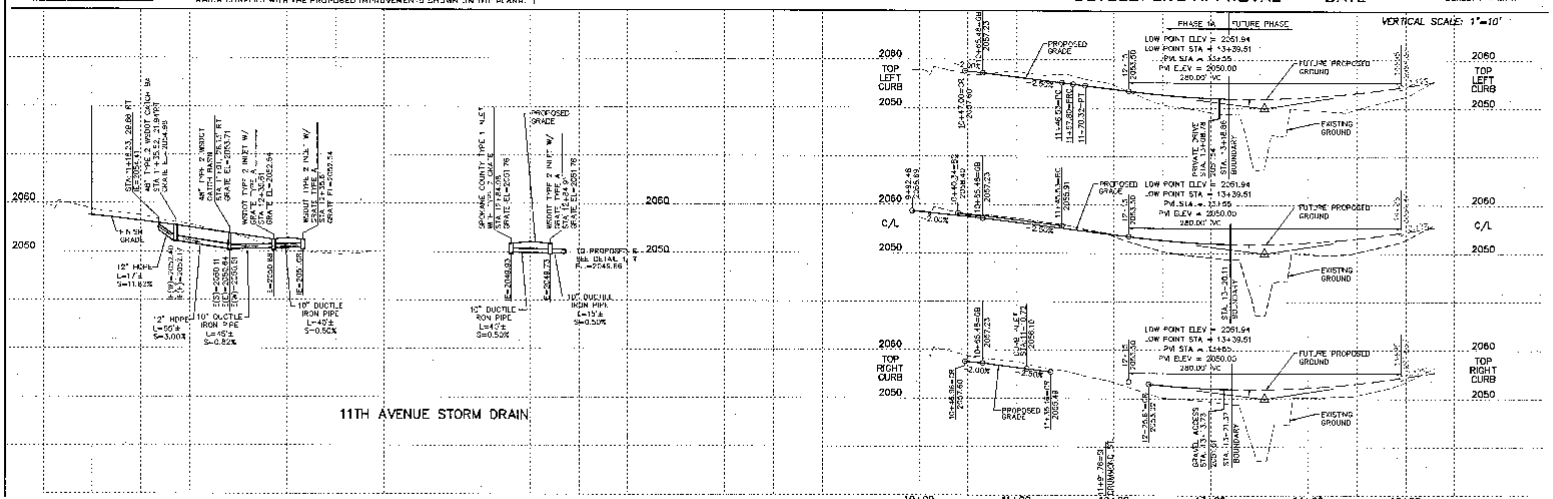
CAUTION: NOTICE TO CONTRACTORS

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, UNLESS OTHERWISE MEASUREMENTS TAKEN IN THE FIELD, THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REVEAL THE EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN.

FOR LEGEND, SEE SHEET 1 OF 18.

DEVELOPER'S APPROVAL — DATE 6/19/03

NORTH — SCALE: 1" = 40'



P-1779A Eng Roads & Drainage

CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
11TH AVENUE - STA 10+00 TO 13+20.11
SPOKANE COUNTY, WASHINGTON

EXPIRES: 3/31/2004

DATE	DESCRIPTION
6-25-03	ORIGINAL PRESENTATION
8-27-03	2ND AND SUBSEQUENT SUBMITTAL

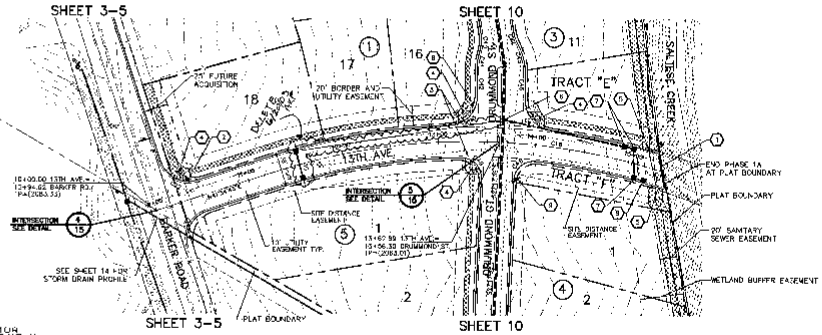
11TH AVE. PLAN AND PROFILE

ANGLES & BEARINGS
DRAWN BY: LHC/KJE
CHECKED BY: HAN
CHECKED BY: TRW

6 OF 19

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CURVE TABLE					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C16	650.00	549.28	292.74	533.08	48°25'53"
C21	30.00	47.03	29.91	42.36	89°48'11"
C22	30.00	47.22	30.09	42.49	90°01'42"
C43	30.00	45.44	28.38	41.22	86°47'23"
C47	30.00	41.27	27.23	40.35	84°33'00"
C48	20.00	32.61	21.23	29.11	93°24'39"
C49	20.00	32.61	21.23	29.11	93°24'39"



CONSTRUCTION NOTES

1. INSTALL DEAN TYPE GUARDRAIL PER W.S.D.O.T. STANDARD DRAWINGS. SPACE POSTS AT 5' MAX. O.C. INSTALL (4) "END OF ROAD" MARKERS (M.U.T.C.D. OM4-1) AT 10' O.C.
2. INSTALL SIGN SIGN & STREET NAME SIGN PER SPOKANE COUNTY STANDARD DETAIL A-16.
3. INSTALL CROSS-GUTTER PER SPOKANE COUNTY STANDARD DETAIL B-18, TYPE 1.
4. CONSTRUCT CURB RAMP PER SPOKANE COUNTY STANDARD DETAIL A-5, DESIGN "B".
5. 16' DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4.
6. INSTALL WSDOT 48" TYPE 3 MANHOLE PER STANDARD PLAN B-22c.
7. INSTALL W.S.D.O.T. GRATE INLET TYPE 2 WITH GRATE "A" PER W.S.D.O.T. STD PLAN B-42. SEE INLET APRON DETAIL 1, SHEET 18.
8. INSTALL SPOKANE COUNTY TYPE 1 INLET WITH TYPE 2 GRATE PER SPOKANE STANDARD PLAN B-10 AND B-13. SEE INLET APRON DETAIL SHEET 17.
9. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STANDARD DETAIL A-16.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-17AA
DATE ACCEPTED: 06-21-03
ACCEPTANCE EXPIRES: 06-21-05
PROJECT LANE MILES PUBLIC: 1.75
PROJECT LANE MILES PRIVATE: 0
SIGNATURE DENOTES ACCEPTANCE OF CONDITIONS INCLUDED ON THIS PLAN OR THE SPECIFICATIONS ADOPTED BY THE SPOKANE COUNTY BOARD OF COMMISSIONERS AND SETS FORTH THE OBLIGATION OF THE DEVELOPER TO PROVIDE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY PERMIT OFFICE 48 HOURS PRIOR TO START OF CONSTRUCTION

◆ NAVD'88 DATUM
BASED ON FOUND U.S. N.G. 63
PER SPOKANE VALLEY INTERPOLATION
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 21, BY UDVAY ENGINEERS, INC.
ELEVATION=2086.00

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
(ALL TYPE BUSINESS DAYS BEFORE YOU DIG)

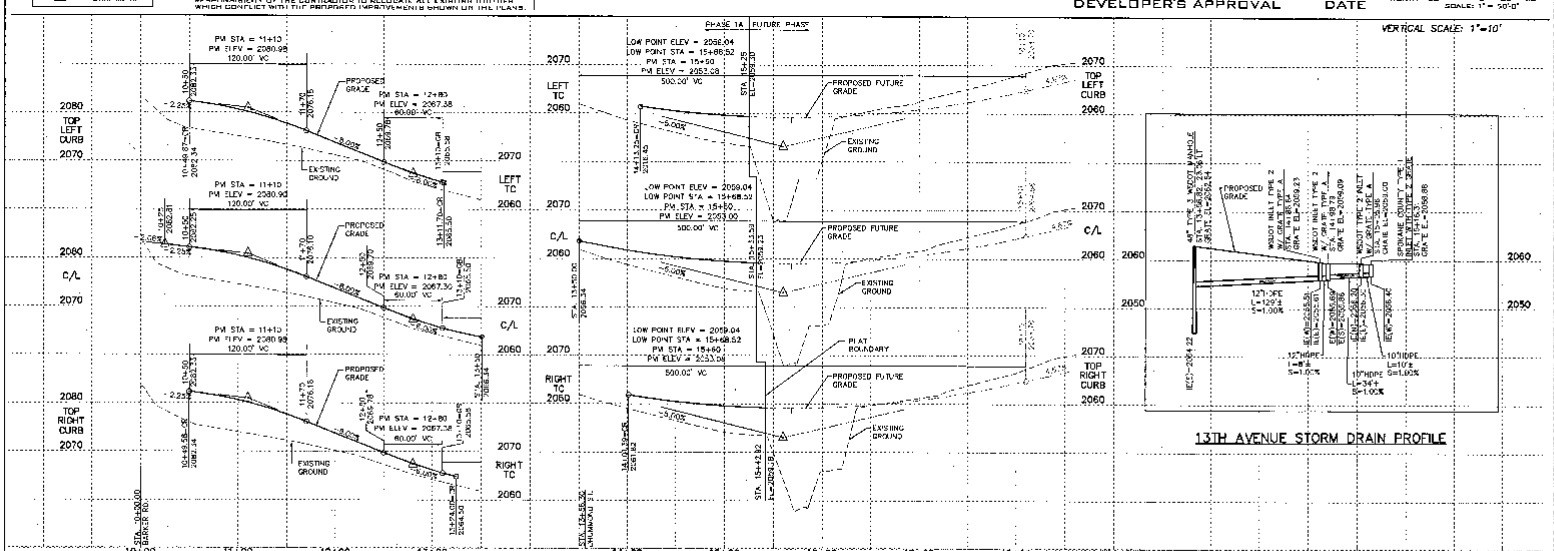
CAUTION: NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19.

DEVELOPER'S APPROVAL

6-19-03
DATE

NORTH SCALE: 1" = 50'



13TH AVENUE STORM DRAIN PROFILE

CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
13TH AVENUE - STA. 10+00 TO 15+33.59
SPOKANE COUNTY, WASHINGTON

13TH AVE. PLAN AND PROFILE

DATE	DESCRIPTION
04/25/03	1st SUBM. PREPARATION
05/07/03	SECOND SUBMITTAL SPOKANE COUNTY

PROJECT #: P-17AA
DRAWN BY: JDR, KJD
DESIGNED BY: RAK
CHECKED BY: RDW

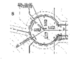
P-17AA Eng Rad Drainage

SECTION 20, T.25 N., R.45 E., W.M.
SPOKANE COUNTY, WASHINGTON

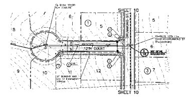
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C36	20.00	31.42	20.00	28.28	90°00'00"
C37	20.00	31.42	20.00	28.28	90°00'00"
C38	20.00	19.80	10.79	19.00	56°42'37"
C39	20.00	19.80	10.79	19.00	56°42'32"

CONSTRUCTION NOTES

1. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STANDARD DETAIL A-15.
2. INSTALL CROSS-GUTTER PER SPOKANE COUNTY STANDARD DETAIL D-16, TYPE 1.
3. CONSTRUCT CURB RAMP PER SPOKANE COUNTY STANDARD DETAIL A-3, DESIGN "B".
4. INSTALL STORM DRAIN PIPE PER PROFILE ON SHEET 9.



12TH COURT CUL-DE-SAC
SCALE: 1"=50'



NAVD'88 DATUM
BASED ON FOUND B.M. NO. 63
PER SPOKANE VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION=2026.02

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000

CAUTION: NOTICE TO CONTRACTOR

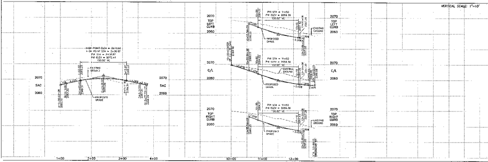
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19.

DEVELOPER'S APPROVAL   6-19-03 DATE

SPOKANE COUNTY ENGINEER'S OFFICE
CONSTRUCTION PLANS

VERTICAL SCALE: 1"=10'



CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE FIRST ADDITION
12TH COURT - STA. 10+00 TO 12+69.15
SPOKANE COUNTY, WASHINGTON

DATE / REVISION BY
ORIGINAL PREPARATION
REVISED PER COMMENTS, SPOKANE COUNTY

12TH COURT PLAN AND PROFILE

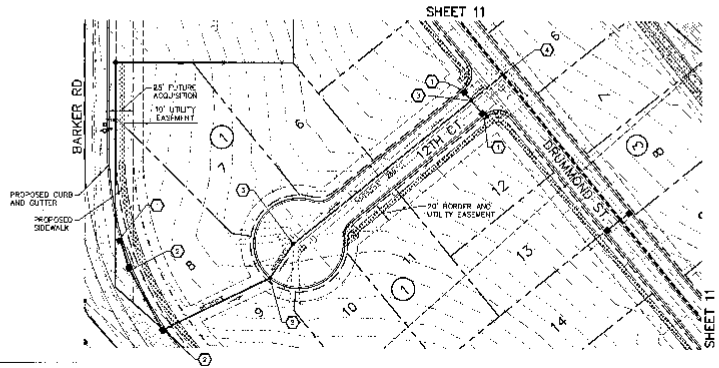
PROJECT ENGINEER
DRAWN BY
DESIGNED BY
CHECKED BY

P-1779A Eng Road & Drainage

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. INSTALL WSDOT GRATE INLET TYPE 2 w/ TYPE "A" GRATE PER WSDOT STANDARD PLAN B-5c. PLEASE REFER TO SHEET 17 FOR INLET APRON DETAIL
2. INSTALL SPOKANE COUNTY TYPE 1 ~~CATCH BASIN TYPE~~ INLET AND TYPE 2 GRATE PER SPOKANE COUNTY STANDARD PLANS B-5,R-10, AND R-13. SEE INLET APRON DETAIL 1 S-1.1 17
3. INSTALL 48" WSDOT TYPE 2 CATCH BASIN WITH SOLID COVER PER WSDOT STANDARD PLAN B-1a.
4. INSTALL 48" WSDOT TYPE 3 MANHOLE PER WSDOT STANDARD PLAN B-23c.



◆ NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
HEN SPOKANE VALLEY INTERCEPTOR PLANS, RECONNAISSANCE PAUCAGE NO. V, SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION=2036.00

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-6000
(Wash. Tele. Relay Serv. 800-676-6311)

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS REPRESENTED TO CONTINUED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, REFERENCED IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION SERVICE AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

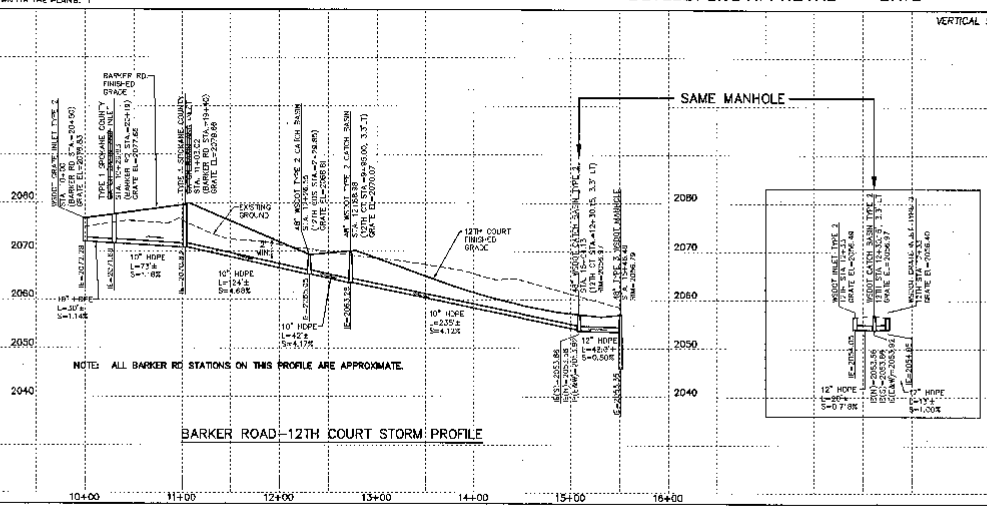
FOR LEGEND, SEE SHEET 1 OF 19.

SPOKANE COUNTY ENGINEER CHECK
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1779A
DATE ACCEPTED: 06-23-03
ACCEPTANCE EXPIRES: 06-23-05
PRODUCT LANE MILES PUBLIC: 1.3
PRODUCT LANE MILES PRIVATE:
PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH THE RECORDS DRAWINGS, SPECIFICATIONS AND OTHER REQUIREMENTS ON FILE WITH SPOKANE COUNTY ENGINEER AND SPOKANE COUNTY ROADS AND DRAINAGE FACILITIES. SPOKANE COUNTY ROADS AND DRAINAGE FACILITIES MAY BE ACCEPTED FOR MAINTENANCE AND OPERATION ONLY AFTER THE ENGINEER HAS FILED A WRITTEN NOTICE TO THE BOARD OF COUNTY COMMISSIONERS THAT THE ROADS AND DRAINAGE FACILITIES ARE IN GOOD CONDITION AND ACCEPTABLE FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3600
NOTIFY ENGINEERING 24 HOURS BEFORE CONSTRUCTION (509) 477-3700

DEVELOPER'S APPROVAL — DATE 6-9-03

NORTH — SCALE: 1" = 50'

VERTICAL SCALE: 1"=10'



NOTE: ALL BARKER RD STATIONS ON THIS PROFILE ARE APPROXIMATE.

BARKER ROAD–12TH COURT STORM PROFILE

CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
12TH COURT · BARKER ROAD STORM
SPOKANE COUNTY, WASHINGTON

STORM PLAN AND PROFILE

PROJECT #: 8009C45
DRAWN BY: ABB
DESIGNED BY: RAR
CHECKED BY: TJW

9 OF 19

P-1779A Eng Road & Drainage

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

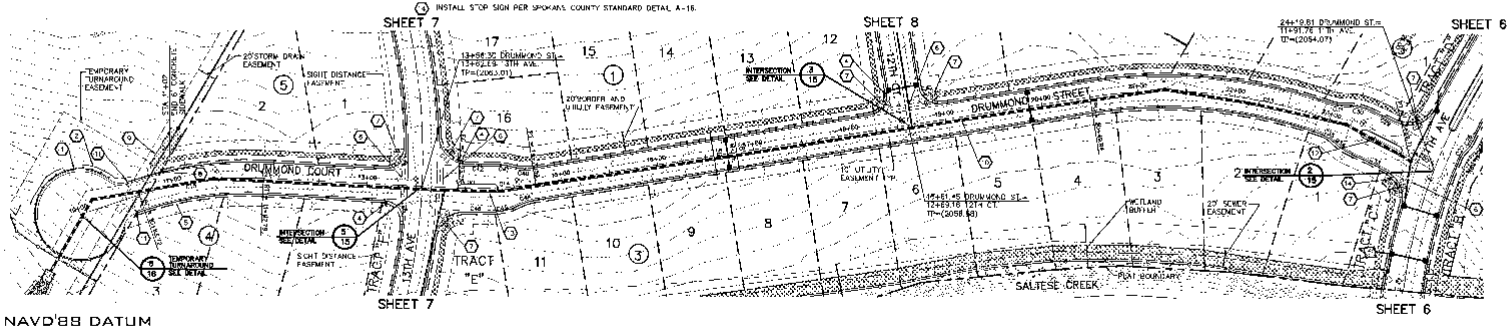
1. INSTALL FLEXIBLE GUIDE POSTS PER W.S.D.O.T. STANDARD PLAN H-1. SURFACE MOUNT AT 10' O.C. AROUND TEMPORARY CUL-DE-SAC.
2. CONSTRUCT DITCH PER DETAIL 1, SHEET 18 AND SECTION A, SHEET 19 1:2 DEPTH, 2:1 SIDE SLOPES MAXIMUM.
3. NOT USED.
4. INSTALL STREET NAME SIGN PER SPOKANE COUNTY STANDARD DETAIL A-16.
5. NOT USED.
6. INSTALL CROSS-GUTTER PER SPOKANE COUNTY STANDARD DETAIL B-18, TYPE 1.
7. CONSTRUCT CURB RAMP PER SPOKANE COUNTY STANDARD DETAIL A-5, DESIGN "B".
8. CONSTRUCT 12-FOOT DRIVEWAY PER SPOKANE COUNTY STANDARD DETAIL A-4
9. CONSTRUCT 12-FOOT MDF SEWER ACCESS ROAD. ROAD SHALL BE 6-INCHES OF C.S.T.C. ON COMPACTED SUBGRADE.
10. INSTALL STORM DRAIN PIPE PER PROFILE, SEE SHEET 11.
11. END CURB AND MATCH ASPHALT PER DETAIL 5, SHEET 17.
12. INSTALL CURBED MEDIAN PER DETAIL SHEET 16.
13. INSTALL CURBED MEDIAN PER SHEET 16.
14. INSTALL STOP SIGN PER SPOKANE COUNTY STANDARD DETAIL A-18.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C13	500.00	339.76	176.73	333.25	38°56'02"
C14	365.00	79.34	39.81	79.20	11°48'23"
C15	200.00	129.06	66.97	126.93	37°07'18"
C28	30.00	47.03	29.90	42.36	89°48'56"
C29	524.50	29.66	14.84	29.66	3°14'26"
C30	68.50	27.62	14.06	27.37	23°05'47"
C31	30.00	11.77	5.94	11.69	22°22'41"
C32	30.00	40.78	24.24	37.71	77°92'41"
C33	475.50	42.02	21.02	42.00	5°03'46"
C34	59.30	33.21	17.05	32.76	32°08'45"
C35	30.00	13.95	7.11	13.83	26°39'00"
C36	50.00	31.42	20.00	28.28	90°00'00"

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
C37	20.00	31.42	20.00	28.28	90°00'00"
C40	42.50	19.56	9.96	19.39	26°23'11"
C41	59.50	20.74	10.48	20.64	19°58'29"
C42	350.00	25.94	12.98	25.94	4°07'23"
C43	30.00	43.44	26.36	41.27	83°47'23"
C44	42.50	14.42	7.28	14.36	19°30'47"
C45	29.50	26.64	13.65	25.81	25°50'17"
C46	159.50	31.73	15.88	31.73	4°25'25"
C47	30.00	44.07	27.27	40.18	84°10'00"
C48	20.00	32.67	21.25	29.11	93°34'39"
C49	20.00	32.67	21.25	29.11	93°34'39"



◆ NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY RIVAY ENGINEERS, INC.
ELEVATION=2036.00

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

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE LOCATION AND/OR ELEVATION OF UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS HAS BEEN CHECKED IN RECORDS OF THE VARIOUS UTILITY COMPANIES. THERE MAY BE UTILITIES OR IMPROVEMENTS TRANSVERSE TO THE ALIGNMENT SHOWN ON THE PLANS. THE CONTRACTOR MUST ALSO BE ALERTED ON AS BUILT, EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION OFFICE AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

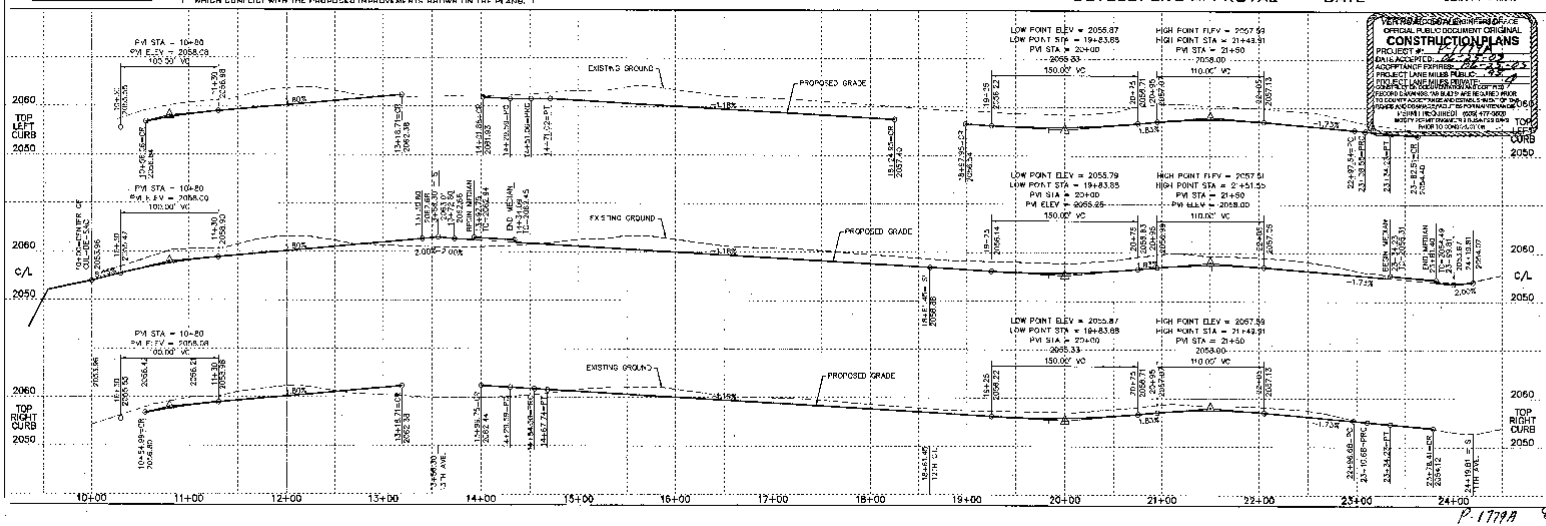
SEE SHEET 11 OF 19 FOR STORM DRAIN PROFILE

FOR LEGEND, SEE SHEET 1 OF 19

DEVELOPER'S APPROVAL

6-19-03
DATE

NORTH
SCALE: 1" = 40'-0"



OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 17-174
DATE ACCEPTED 06-25-03
ACCEPTANCE EXPIRES 06-25-05
PROJECT LANE MILES PUBLIC 0.25
PROJECT LANE MILES PRIVATE 0.00
PRIVATE ROAD MAINTENANCE EXPIRES
PRIOR TO COUNTY ACCEPTANCE AND DETAILS WITH "OK" TO ISSUE ACCEPTANCE CONTACT REVIEW ENGINEER AT 509-983-1900 REQUIRED (509) 477-3600
MODIFY PRIVATE ROAD WITH 15 DAYS OF EXPIRATION PRIOR TO COUNTY ACCEPTANCE

LLL ASSOCIATES
SURVEYING • CIVIL ENGINEERING
MARKHAM PLAZA
E. 107 N. MAIN
CHENEY, WASHINGTON 99004
(509) 235-6181
FAX (509) 235-6182
ARCHITECTURE
PROJECT MANAGEMENT
LANDUSER ARCHITECTURE
SURVEYING

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
DRUMMOND STREET
STA. 0+00 TO 24+19.81
SPOKANE COUNTY, WASHINGTON

DRUMMOND PLAN AND PROFILE

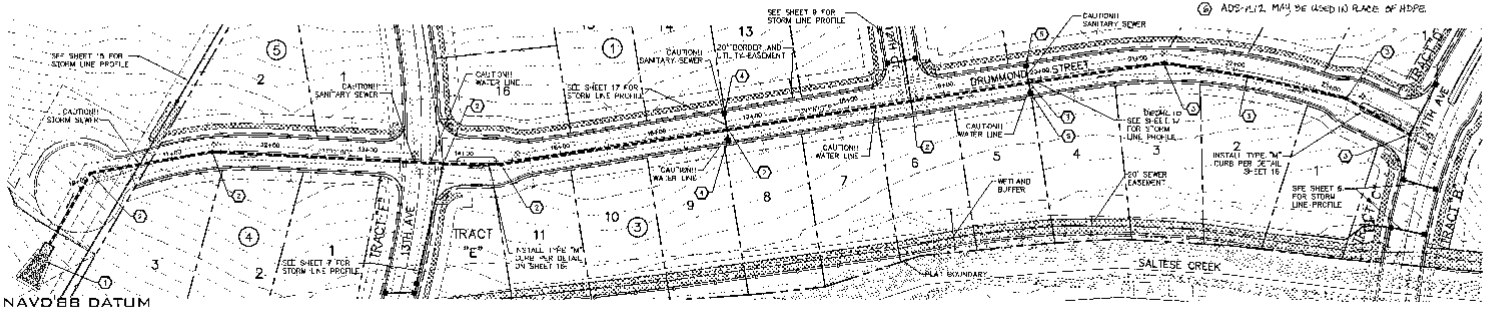
PROJECT #: 97070145
DRAWN BY: LMB/JJG
DESIGNED BY: BAR
PREPARED BY: LMB

P. 1779A

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. CONTRACTOR SHALL INSTALL RIP-RAP WITH GABION BASKETS SEE SHEET 16 FOR MORE DETAILS.
2. INSTALL 48" TYPE 3 WSDOT MANHOLE PER STANDARD PLAN B-23c. SEE BELOW FOR INVERT AND RIM ELEVATIONS.
3. INSTALL 48" TYPE 2 WSDOT CATCH BASIN W/ SOLID COVER PER WSDOT STANDARD PLAN B-1a. SEE BELOW FOR INVERT AND RIM ELEVATIONS.
4. INSTALL WSDOT GRATE INLET TYPE 2 WITH GRATE TYPE "A" PER WSDOT STANDARD PLAN B-4c. REFER TO SHEET 17 FOR INLET APRON DETAIL (#1) AND PROFILE (#8).
5. INSTALL SPOKANE RESIDENTIAL INLET TYPE 1 W/ TYPE 2 GRATE PER SPOKANE STD PLANS G-9.01 & G-9.03 & 9-13. REFER TO SHEET 17 FOR INLET APRON DETAIL (#1) AND PROFILE (#10).
6. ADS-N12 MAY BE USED IN PLACE OF HDPE.



FOR LEGEND, SEE SHEET 1 OF 19

◆ NAVD'88 DATUM
BASED ON FOUND H.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY RIVAY ENGINEERING, INC.
ELEVATION=2036.00

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL AT LEAST 48 HOURS BEFORE YOU DIG

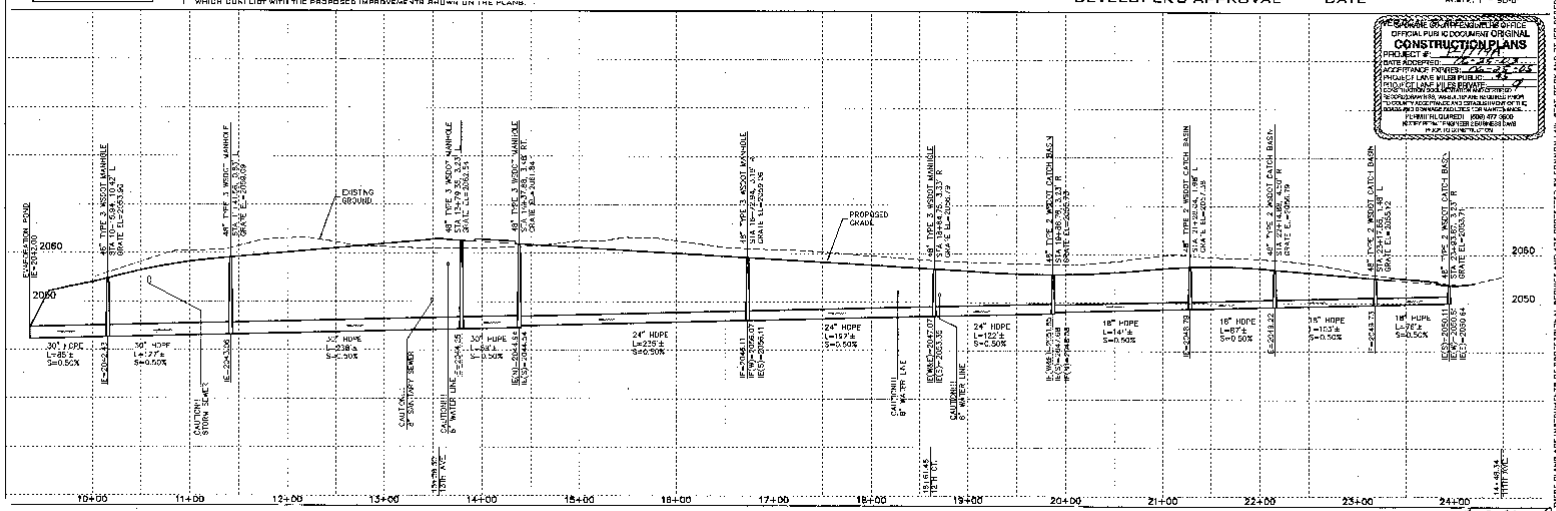
CAUTION: NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS being EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

Bryan Walker
DEVELOPER'S APPROVAL

6-19-03
DATE

NORTH 30 0 30 60 90
SCALE: 1" = 30'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: F-17798
DATE ADOPTED: 6-23-03
ACCEPTANCE PAPERS: 6-23-03
ENGINEER LAKE HILLS PUBLIC: 6-23-03
PROJECT LANE HILLS ENGINEER: 7
"CONSTRUCTION PLANS MAY BE ALTERED ONLY UPON WRITTEN AUTHORIZATION FROM THE COUNTY ENGINEER."
"CONSTRUCTION PLANS EXPIRE TWO YEARS FROM DATE OF APPROVAL"
"ALL DRAINAGE FACILITIES OR WATER MAINS SHALL BE INSPECTED BY THE COUNTY ENGINEER."
PLEASE REQUIRED (509) 477-3600
RETURN "AS-BUILT" PLANS FOR CERTIFICATION
PLEASE REQUIRED



F-17798

CLC ASSOCIATES
919 WEST THE DRIVE, IV
SUITE 201
SPOKANE
WASHINGTON 99201
P 509 624 9474
F 509 624 9474
W www.clc-inc.com
WORK LOCATION
PROJECT MANAGER
LANDSCAPE ARCHITECT
LAND SURVEYOR

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
DRUMMOND STREET
STORM PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER R. WHITE
STATE OF WASHINGTON
CERTIFICATE NO. 35368
THIS DOCUMENT IS THE PROPERTY OF CLC ASSOCIATES

DATE	DESCRIPTION
04/25/02	ORIGINAL PRESENTATION
06/20/03	SECOND SUBMITTAL SPOKANE COUNTY

PROJECT #: 5020045
DRAWN BY: JCS
DESIGNED BY: BAK
CHECKED BY: TRW

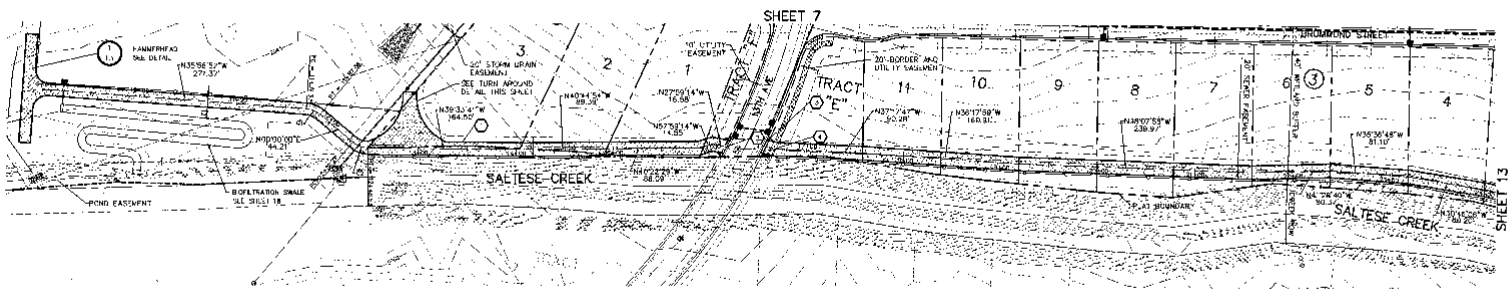
STORM PLAN AND PROFILE

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

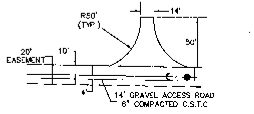
1. CONSTRUCT 14-FOOT WIDE SEWER ACCESS ROAD. PER DETAIL 2, SHEET 13.
2. NOT USED.
3. 16' DRIVEWAY APPROACH PER SPOKANE COUNTY STANDARD DETAIL A 7.
4. CONSTRUCT REINFORCED CURB AND SIDEWALK PER DETAIL 9, SHEET 17.

CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	CHORD	DELTA
C1	15.69	25.00	8.11	15.43	35°56'52"
C2	17.28	25.00	8.99	16.92	39°33'41"



◆ NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
M.H. HUANAS VALLEY INTERCEPTOR
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION=2035.00

FOR LEGEND, SEE SHEET 1 OF 19.



TURNAROUND DETAIL 1

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

CAUTION: NOTICE TO CONTRACTOR

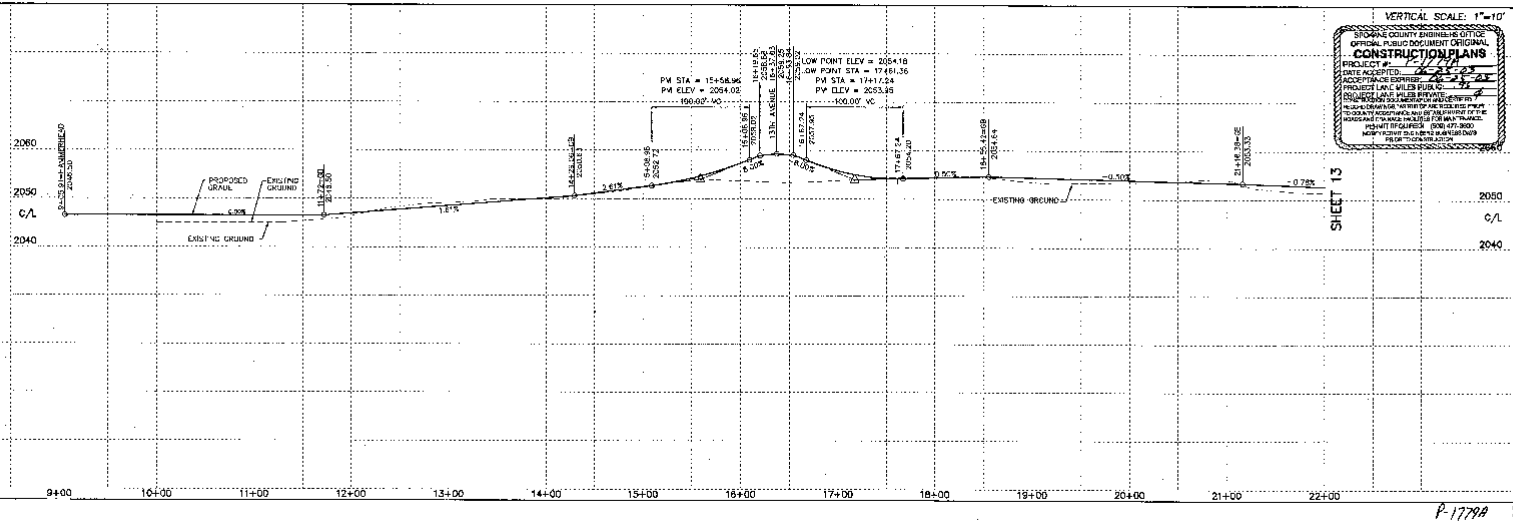
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO RECEIVE EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL AND THE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

DEVELOPER'S APPROVAL — DATE 6-19-03

SCALE: 1" = 50'

VERTICAL SCALE: 1"=10'

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1779A
DATE ACCEPTED: 6-23-03
ACCEPTANCE EXPIRES: 6-23-05
PROJECT LANE MILES PUBLIC: 0.0
PROJECT LANE MILES PRIVATE: 0.7
SIGNATURE DOCUMENTS ON FILE WITH THE PROJECT ENGINEER
PERMIT REQUIRED: (509) 477-3600
INSPECTION REQUIRED: (509) 456-0429
PRIOR TO CONSTRUCTION



CLL ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
ACCESS ROAD STA. 9+58 TO 23+00
SPOKANE COUNTY, WASHINGTON

DATE	REVISION
12/23/02	ORIGINAL PRESENTATION
6/30/03	SECOND SUBMITTAL SPOKANE COUNTY

PROJECT #: 1302CH5
DRAWN BY: LMB/MJU
DESIGNED BY: DAB
CHECKED BY: TRW

ACCESS RD PLAN & PROFILE

12 OF 19

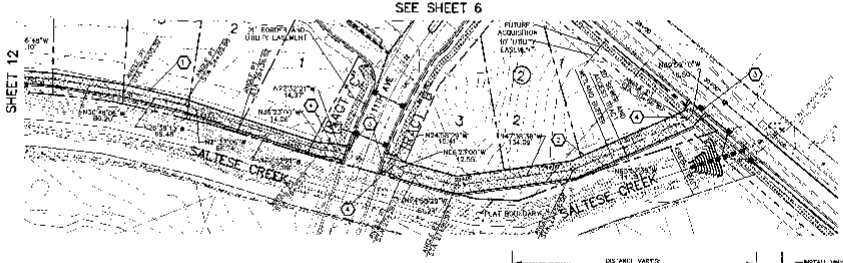
P-1779A Eng Road & Drainage

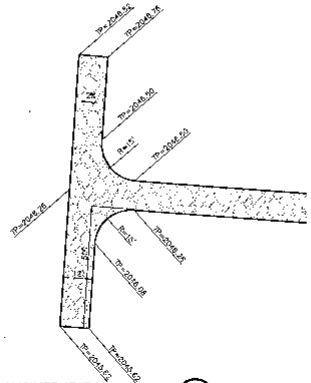
SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

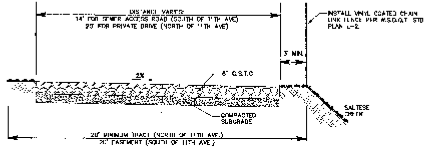
CONSTRUCTION NOTES

1. CONSTRUCT 14-FOOT WIDE SEWER ACCESS ROAD. SEE DETAIL 2, THIS SHEET.
2. CONSTRUCT 20-FOOT WIDE PRIVATE DRIVE PER DETAIL 2, THIS SHEET.
3. 16' DRIVEWAY APPROACH PER SPOKANE COUNTY STANDARD DETAIL A-7.
4. CONSTRUCT REINFORCED CURB AND SIDEWALK PER DETAIL 2, SHEET 16.

SEE SHEET 6







NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
PER SPOKANE VALLEY INTERCEPTOR PLANS, CONSTRUCTION PACKAGE NO. V, SHEET 13 OF 20, BY DOVAY ENGINEERS, INC.
ELEVATION = 2096.00

FOR LEGEND, SEE SHEET 1 OF 19.

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

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

DEVELOPER'S APPROVAL

6-4-03
DATE

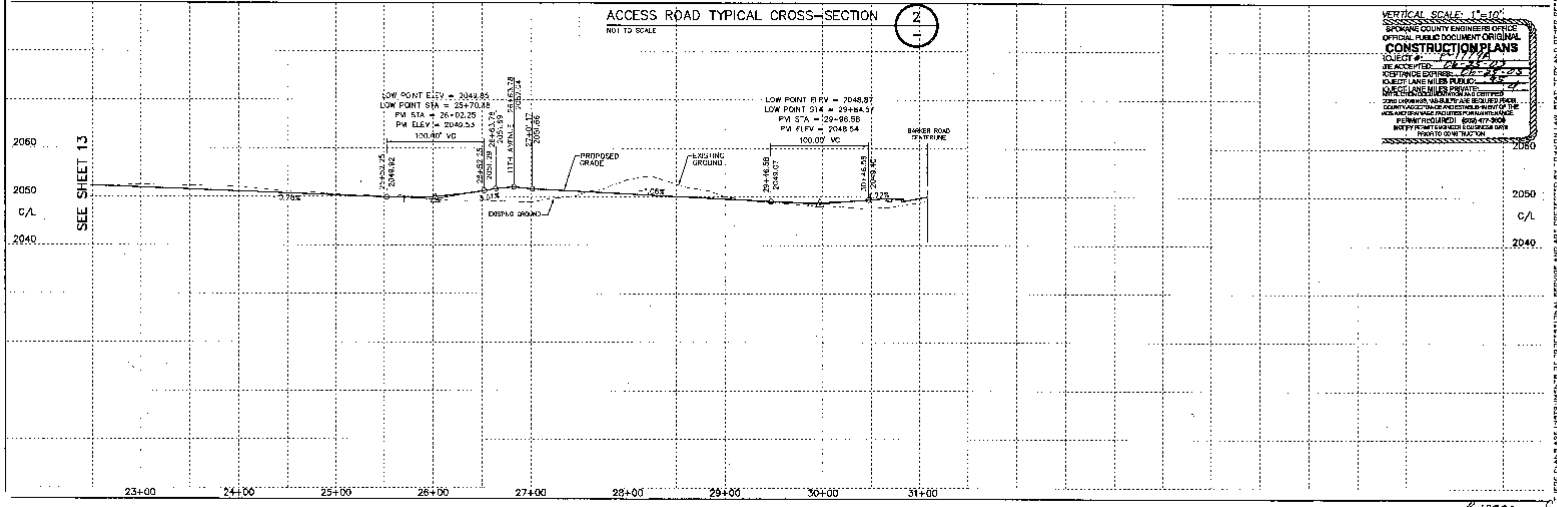
NORTH 50 0 25 50
SCALE: 1" = 50'

ACCESS ROAD TYPICAL CROSS-SECTION (2)

NOT TO SCALE

VERTICAL SCALE: 1"=10'

SEE SHEET 13



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: C-1779
WE ACCEPTED: 06-23-03
MAINTENANCE EXPIRES: 06-23-05
PUBLIC LANE MILES PUBLIC: 0.25
PRIVATE: 0
THE ENGINEER HAS CERTIFIED THAT ALL REQUIRED PLANS, COUNTY AGENCY TRACE PROTECTIVE EASEMENT OF THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE.
PLEASE NOTIFY THE COUNTY ENGINEER OF ANY CHANGES PRIOR TO COMPLETION

CLC ASSOCIATES
707 WEST 7TH AVENUE
SUITE 200
SPOKANE, WA 99204
PHONE (509) 624-1464
FAX (509) 624-2561
E-MAIL: CLC@CLCASSOC.COM
CIVIL ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
LAND DEVELOPERS

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
ACCESS ROAD STA. 23+00 TO 31+00
SPOKANE COUNTY, WASHINGTON

DATE	DESCRIPTION
04-25-03	ORIGINAL PRESENTATION
05-27-03	SECOND SUBMITTAL TO SPOKANE COUNTY

ACCESS RD PLAN & PROFILE

PROJECT # 3030-03
DRAWN BY: LNR, KAG
DESIGNED BY: RAH
CHECKED BY: TBW

13 OF 19

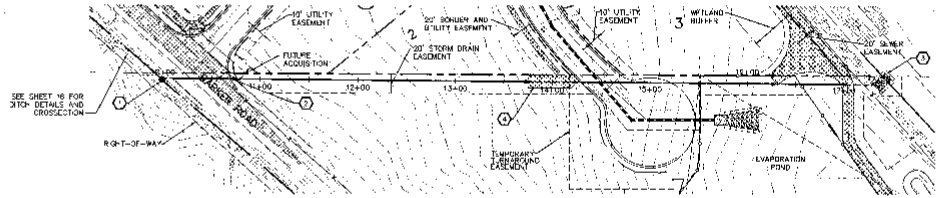
P-1779A

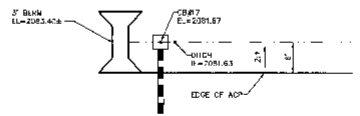
Eng Road & Drainage

SECTION 20, T.25 N., R45 E., W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1. INSTALL WSDOT TYPE 2 GRATE INLET WITH TYPE "A" GRATE PER WSDOT STANDARD PLAN B-4c. SEE SHEET 17 FOR INLET APRON DETAIL.
2. INSTALL 48" WSDOT TYPE 3 MANHOLE PER WSDOT STANDARD PLAN B-23c
3. INSTALL LIGHT, LOOSE RIP-RAP PER W.S.D.O.T. STANDARD SPECIFICATION 9-13.1. RIP-RAP SHALL BE PLACED ON CREEK BOTTOM AND 4 FEET ABOVE CREEK FLOWLINE ON BOTH SIDES. EXTEND RIP-RAP 5 FEET UPSTREAM AND DOWNSTREAM OF PIPE OUTLET. INSTALL GABION BASKETS PER POND DETAIL SHEET 18.
4. INSTALL 12' WIDE GRAVEL ACCESS RD PER DETAIL 7-5 SHEET.

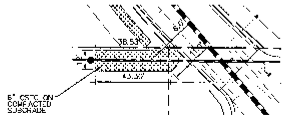




DITCH DETAIL
NOT TO SCALE

NAVD'88 DATUM
BASED ON FOUND B.M. NO. 62
PER SPOKANE VALLEY INTERVISION
PLANS, CONSTRUCTION PACKAGE NO. V,
SHEET 15 OF 20, BY BOVAY ENGINEERS, INC.
ELEVATION=2036.00

FOR LEGEND, SEE SHEET 1 OF 19.



ACCESS RD DETAIL
NOT TO SCALE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
(ALL 700 & SPARES PAGES BEFORE YOU DIG)

CAUTION: NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY COMPANIES FOR LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION AND FURTHER MUST ASSUME THE RESPONSIBILITY FOR THE CONTRACTOR TO AVOID ALL EXISTING UTILITIES WHICH COMPLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

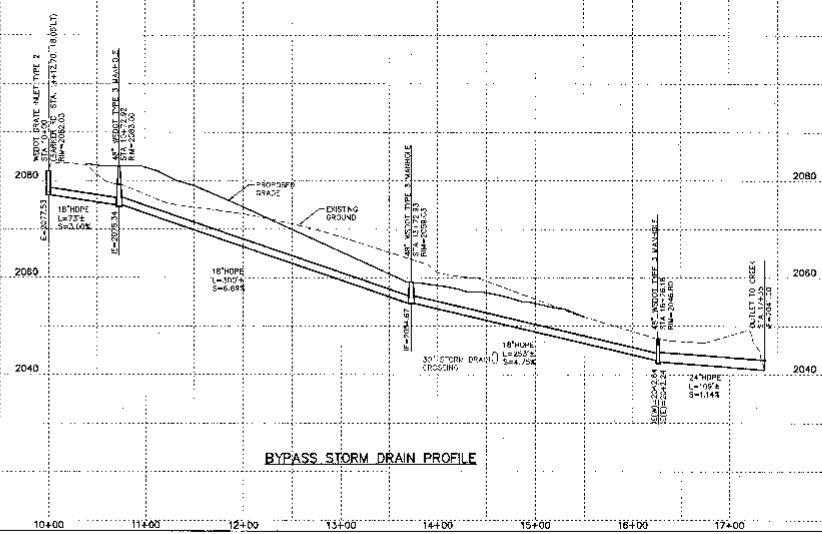
Bryan Walker
DEVELOPER'S APPROVAL

6-8-03
DATE

NORTH 50 0 25 50
SCALE: 1" = 50'

VERTICAL SCALE: 1"=10'

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED
ACCEPTANCE EXPIRES
PROJECT LANE MILES PUBLIC
PROJECT LANE MILES PRIVATE
CONSTRUCTION PACKAGE # OF ___ TOTAL ___
RECORD DRAWINGS: "AS-BUILTS" ARE REQUIRED FOR THIS COUNTY ACCEPTANCE AND ISSUE OF A "CLEAR" PERMIT
ROADWAY & DRAINAGE FACILITIES - DO NOT ACCEPT
PERMIT REQUIRED (509) 477-4800
NOTIFY PERMIT BUILDER 24 HRS PRIOR TO CONSTRUCTION



BYPASS STORM DRAIN PROFILE

ELC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
BYPASS STORM PLAN AND PROFILE
SPOKANE COUNTY, WASHINGTON

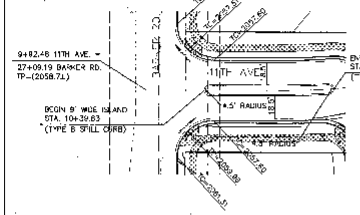
DATE	DESCRIPTION
04/30/03	ORIGINAL PREPARATION
06/07/03	REVISED SUBMITTAL SPOKANE COUNTY

PROJECT #: 1005045
DRAWN BY: JLH
DESIGNED BY: SAR
CHECKED BY: TRM

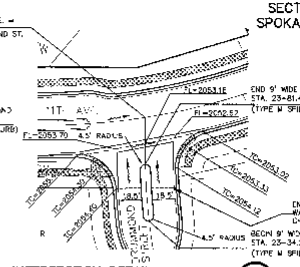
STORM PLAN AND PROFILE

P-17798 Orig. Rec'd 9/11/03

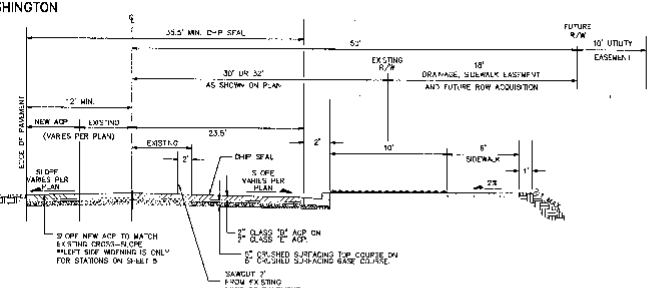
SECTION 20, T25N, R45E, W.M.
SPOKANE COUNTY, WASHINGTON



INTERSECTION DETAIL 1
SCALE: 1" = 40'



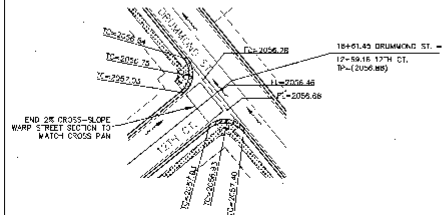
INTERSECTION DETAIL 2
SCALE: 1" = 40'



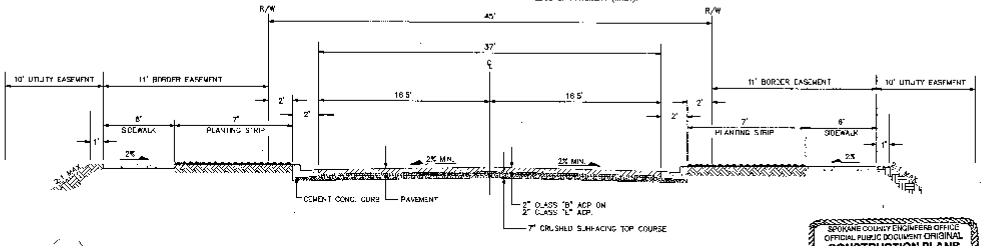
BARKER ROAD TYPICAL CROSS-SECTION
NOT TO SCALE

32' ROW
STA: 14+41.28 – 18+60
21+60 – 28+54.71
27+63.71 – 29+28.69

30' ROW
STA. 29+29.70 – 33+82.02
* AN ADDITIONAL 2' OF RIGHT-OF-WAY TO BE DEDICATED AT TIME OF FINAL PLAT
** CHIP SEAL FROM STA.17+48.23 TO STA.36+35.02
CHIP SEAL EXTENDS FROM EDGE OF PAVEMENT (WEST) EDGE OF PAVEMENT (EAST).



INTERSECTION DETAIL 3
SCALE: 1" = 40'

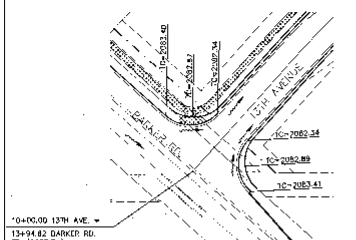


11TH AVENUE TYPICAL CROSS-SECTION
NOT TO SCALE

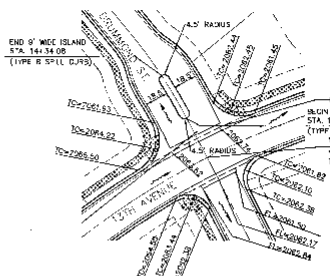
STA: 11+48.53 – 12+25.81
ADJUST PROFILE CROSS-SLOPE TO MATCH CROSS GUTTER

STA: 12+25.81 – 13+21.37

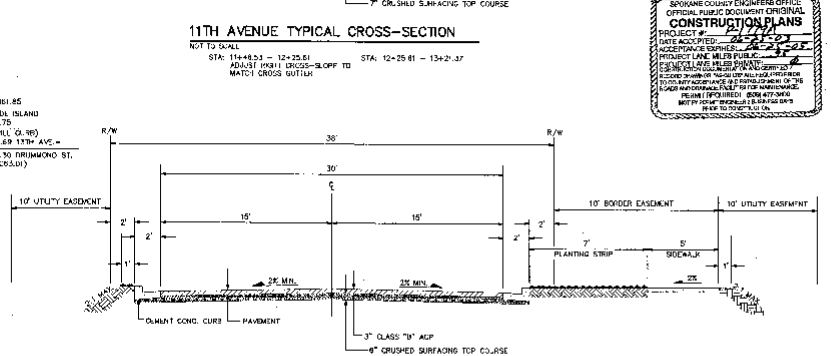
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 21/701
DATE ACCEPTED: 06-21-93
ACCEPTANCE EXPIRES: 06-21-95
PROJECT LANE MILES PUBLIC: 0.6
ESTIMATED LANE MILES PRIVATE: 0.3
CERTIFICATION OF COMPLETION RECEIVED: 07-28-93
SECOND 2YR-WARRANTY INSPECTION RECEIVED: 07-28-95
ROAD IMPROVEMENTS FULFILLED FOR MAINTENANCE
PERMIT (REQUIRED) 0096 477-5490
MOTIF FOR PERMIT (REQUIRED) 0.0-0.0 0.0-0.0
RELEASE TO SUPERVISOR ON



INTERSECTION DETAIL 4
SCALE: 1" = 40'



INTERSECTION DETAIL 5
SCALE: 1" = 40'



12TH COURT, DRUMMOND STREET, DRUMMOND COURT AND 13TH AVENUE
TYPICAL CROSS-SECTION
NOT TO SCALE

*12TH CT STA. 10+55.59 – 12+32.66
13TH AVE STA: 10+45.58 – 13+24
14+01.38 – 15+28
DRUMMOND ST. STA: 14+70 – 18+24.98
18+24.97 – 18+87.95 **
18+97.96 – 22+87
DRUMMOND CT. STA: 10+55 – 13+18.71

**WARP LEFT CROSS-SLOPE TO MATCH CROSS GUTTER

NAVD '88 DATUM
BASED ON HORIZ. N.W. NO. 62
CITY OF SPOKANE VERTICAL CONTROL NETWORK
PLANE COORDINATES FOR NO. 62
ORIGINAL SOURCE: N.W. PLANE COORDINATES FOR NO. 62 BY ROYAL ENGINEERS, INC.
LAST ADJUSTED: 2000-01

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

CAUTION: NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE FIELD-FIX ANCHOR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY OWNERS AND, WHERE APPLICABLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19

DEVELOPER'S APPROVAL — DATE 6-7-93

CLE ASSOCIATES
707 WEST 11TH AVENUE
SPOKANE
WASHINGTON 99204
P. O. BOX 1748 99210
(509) 624-9217
COLVILLE, WASHINGTON
ARCHITECTURE
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
LAND SURVEYING

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
SPOKANE COUNTY, WASHINGTON

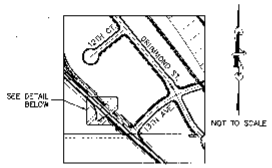
DATE	REVISIONS
04/26/93	ORIGINAL PREPARATION
05/07/93	SECOND SUBMITTAL SPOKANE COUNTY

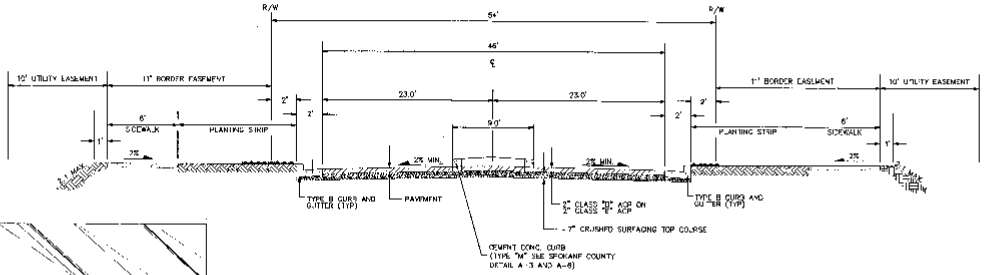
PROJECT # 90-0048
DRAWN BY: KJS
DESIGNED BY: RAP
CHECKED BY: TJW

STREET & DRAINAGE DETAILS

P-17798 Eng Bond Drawing

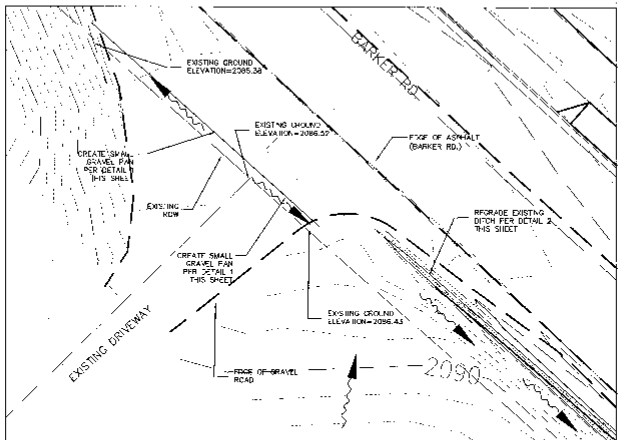
SECTION 20, T25N, R45E, W.M.
SPOKANE COUNTY, WASHINGTON





11TH AVENUE ENTRANCE TYPICAL CROSS-SECTION

NOT TO SCALE STA: 10+39.83 – 11+46.53



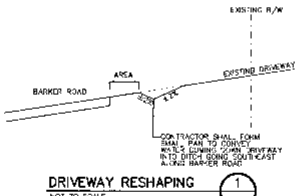
DRIVEWAY DRAINAGE DETAIL (4)

NOT TO SCALE

DRUMMOND STREET ENTRANCES TYPICAL CROSS-SECTION

NOT TO SCALE STA: 3+82.75 – 1+34.38
23+34.23 – 23+81.40

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL AUDIO DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 6-17-94
DATE ACCEPTED: 06-29-03
ACCEPTANCE EXPIRES: 06-29-04
PROJECT LANE MILES PUBLIC: 2.4
PROJECT LANE MILES PRIVATE: 0
CONTACT SPOKANE COUNTY DEPARTMENT OF PUBLIC WORKS DRAWINGS, MODELS, OR ARE REQUIRED FROM COUNTY AUDIO FORMAT MUST BE AS SUBMITTED ON THE ROADWAY CONVEYANCE FACILITIES OR MAY BE REQUIRED.
PLEASE REQUIRE (509) 477-3600
BETTY CRAIG ENGINEERING SUPERVISOR
PRIOR TO CONSTRUCTION



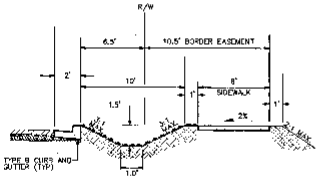
DRIVEWAY RESHAPING (1)

NOT TO SCALE

NOTE: DITCH SHALL FOLLOW EXISTING PROFILE OF THE EDGE OF ACP WITH MINIMUM DEPTH SPECIFIED.

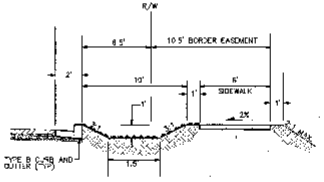
DITCH REGRADING (2)

NOT TO SCALE



CONVEYANCE DITCH (3)

BARKER ROAD
NOT TO SCALE



CONVEYANCE DITCH (5)

MARLIN ROAD
NOT TO SCALE

NAVD'88 DATUM

BASIS OF BEARING IS THE NORTH LINE OF THE NE 1/4 OF SECTION 20, T25N, R45E, W.M. AS SHOWN ON A RECORD OF SURVEY FILED IN BOOK 1 OF SURVEYS, PAGE 1, RECORDS OF SPOKANE COUNTY, WASHINGTON.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-6033
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS ERRONEOUSLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST FIELD VERIFY THE LOCAL UTILITY COMPANY CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19

DEVELOPER'S APPROVAL — DATE 6-19-03

P-17798 Eng. Roads Drainage

ELC ASSOCIATES

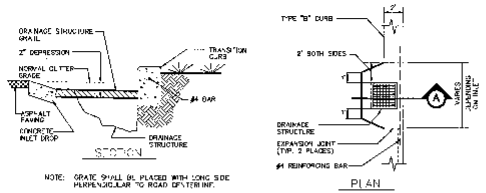
STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
SPOKANE COUNTY, WASHINGTON

DATE	DESCRIPTION
1	ORIGINAL PREPARATION
2	RECORD REPRODUCTION

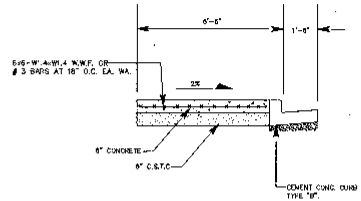
PROJECT # 3040045
DRAWN BY: KLR
DESIGNED BY: SAS
CHECKED BY: TRW

STREET & DRAINAGE DETAILS

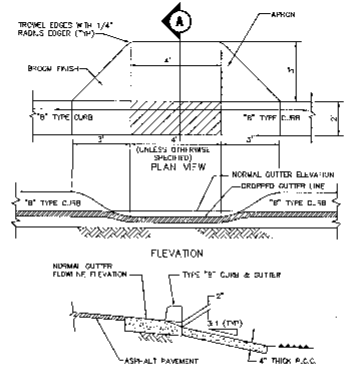
SECTION 20, T25N, R45E, W.M.
SPOKANE COUNTY, WASHINGTON



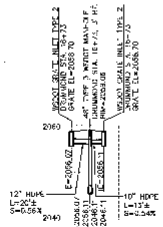
INLET APRON DETAIL (1)
NOT TO SCALE



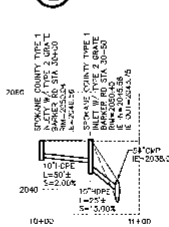
HEAVY DUTY SIDEWALK AT POND ACCESS (2)
NOT TO SCALE



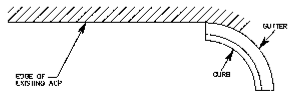
CURB INLET – TYPE "B" CURB DETAIL (3)
NOT TO SCALE



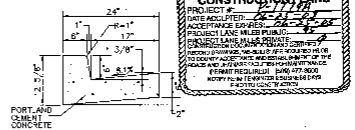
STORM PROFILE–DRUMMOND AVE (8)
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



STORM PROFILE–
BARKER AVENUE TO CREEK (9)
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

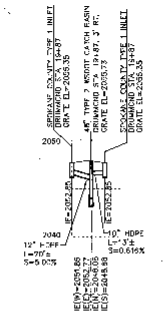


END CURB DETAIL (5)

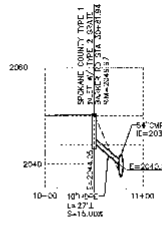


TYPE "B" CURB DETAIL (4)
NOT TO SCALE

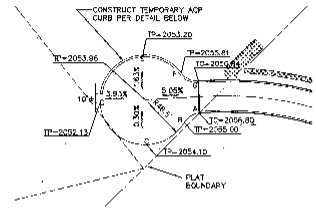
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 27788
DATE ADOPTED: 6-21-06
ACCEPTANCE EXPIRES: 06-21-08
PROJECT LANE MILES PUBLIC: 0.7
PRIVATE: 0
SUBMITTED LANE MILES PUBLIC: 0.7
PRIVATE: 0
SUBMITTED LOCATION: STREET: 33RD PL
RECORD DRAWINGS WILL BE REQUIRED WHEN
TO COUNTY ACCEPTANCE OF PUBLIC IMPROVEMENTS
PRIOR TO ACCEPTANCE OF PUBLIC IMPROVEMENTS
PERMIT REQUIRED (509) 477-3600
ROAD FLOW ENGINEER: DONALD R. CRIPE
FAX (509) 477-3600

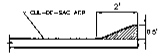


STORM PROFILE–DRUMMOND AVE (10)
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



STORM PROFILE–
BARKER AVENUE TO CREEK (7)
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'





TEMPORARY ACP CURB

DRUMMOND ST. TEMPORARY TURNAROUND (6)
SCALE: 1"=50'

NAVD'88 DATUM
BASED ON FOUND BW NO. 65
BW VERIFIED AS IN INTERSECTION
REDAS CORS INC. BN=AJ7408 NO. 3
SHEET 15 OF 20, BY GEOVAT DIRECTS, INC
FIELDBOOK 2006-20

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

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE NUMERICAL MEASUREMENTS TAKEN IN THE FIELD, THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY COMPANIES SEVERAL AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

FOR LEGEND, SEE SHEET 1 OF 19.

DEVELOPER'S APPROVAL — DATE 6-9-03

CLC ASSOCIATES
707 WEST 7TH AVENUE
SUITE 300
SPOKANE, WASHINGTON 99204
P 509.455.9078
F 509.455.9544
CLCASSOCIATES.COM
ARCHITECTS OF
FINE INTERIOR PLANNING
LANDSCAPE ARCHITECTURE
SITE PLANNING

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
FIRST ADDITION
SPOKANE COUNTY, WASHINGTON

EXPIRES 6/30/03
PREPARED UNDER THE DIRECT SUPERVISION OF: WALTER W. RUDOLPH, P.E. STATE OF WASHINGTON REGISTRATION NO. 17797
PREPARED BY: CLC ASSOCIATES

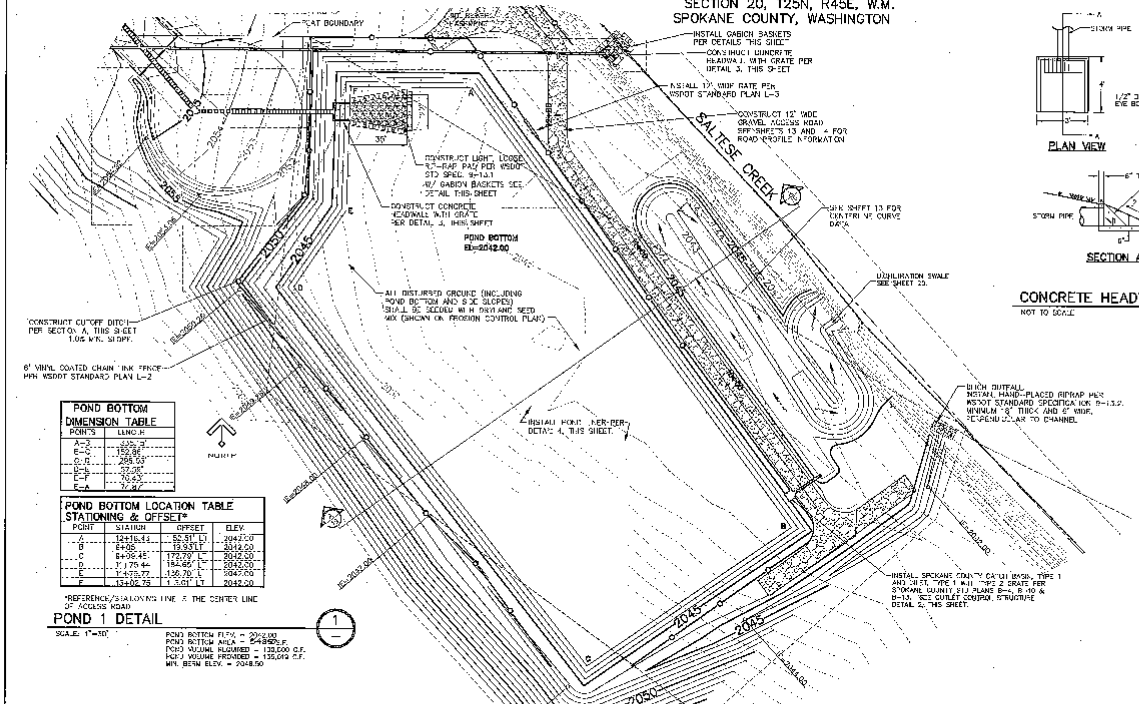
DATE	DESCRIPTION
2/28/03	INITIAL PREPARATION
4/28/03	SECOND SUBMITTAL SPOKANE COUNTY
6/9/03	

STREET & DRAINAGE DETAILS

PROJECT ENGINEER: RAS
DRAWN BY: RAS
DESIGNED BY: RAS
CHECKED BY: WWR

P-17798 Eng Road & Drainage

SECTION 20, T25N, R45E, W.M.
SPOKANE COUNTY, WASHINGTON



POND BOTTOM DIMENSION TABLE	
POINTS	LENGTH
A-B	205.31'
B-C	152.96'
C-D	284.53'
D-E	52.06'
E-F	70.45'
F-A	72.34'

POND BOTTOM LOCATION TABLE STATIONING & OFFSET*			
POINT	STATION	OFFSET	ELEV.
A	12+16.44	50.51' LT	2042.00
B	8+06	12.93' LT	2042.00
C	8+06.45	172.79' LT	2042.00
D	7+75.44	184.46' LT	2042.00
E	7+75.77	136.70' LT	2042.00
F	13+02.79	15.01' LT	2042.00

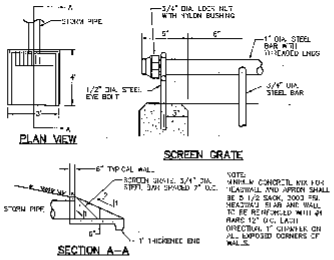
*REFERENCE/STATIONING LINE IS THE CENTER LINE OF ACCESS ROAD

POND 1 DETAIL

SCALE: 1"=20'

1

POND BOTTOM FLOW = 20,000
POND BOTTOM AREA = 54,962 S.F.
POND VOLUME REQUIRED = 135,000 C.F.
POND VOLUME PROVIDED = 135,012 C.F.
MIN. BERM ELEV. = 2048.50



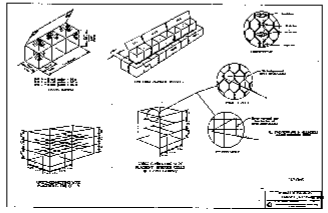
NOTE:
MINIMUM CONCRETE MIX 1104 (CASTING AND APRON SHALL BE 5 1/2 SACK, 3000 PSI MINIMUM) 18 AR AND WALL TO BE REINFORCED WITH #4 BARS 12" O.C. EACH DIRECTION, 1" CHAMFER ON ALL EXPOSED CORNERS OF WALL.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2C-1104
DATE ACCEPTED: 10-25-04
ACCEPTANCE EXPIRES: 10-25-05
PROJECT LEAD: LINDA PUBLICO
PROJECT ENGINEER: [illegible]
THIS PLAN IS VALID FOR ONE YEAR FROM THE ACCEPTANCE DATE. ACCEPTANCE EXPIRATION MAY BE EXTENDED BY WRITTEN REQUEST. COUNTY ACCEPTANCE DOES NOT ENTITLE THE MANDATORY ENGINEER TO THE MAINTENANCE PERMIT REQUIRED. (509) 477-3620
NO PTS, SHEETS, STOP PLANS OWN
PERMITTED DEVELOPMENT

CONCRETE HEADWALL WITH GRATE

NOT TO SCALE

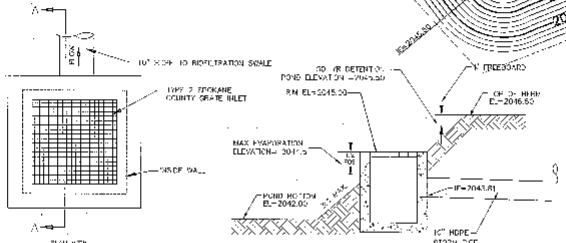
3



TYPICAL GABION BASKETS				
	L	W	H	V
A	6.0'	3.0'	3.0'	2.0'
B	6.0'	3.0'	1.5'	1.0'
C	6.0'	3.0'	1.0'	0.6'

GABION BASKETS

5

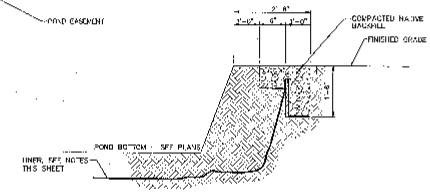


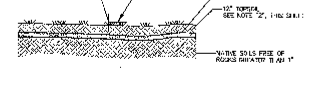
NAVD'88 DATUM
MATCH ON POND B.M. NO. 52
BM MAGNUM VALLEY ELIMINATION
POINT CONSTRUCTION MANAGEMENT
SPIRIT OF SPOKANE COMPANIES, INC.
[illegible]

OUTLET CONTROL STRUCTURE

SECTION A-A
NOT TO SCALE

2





POND LINER SECTION

NOT TO SCALE

4

GEOTEXTILE POND LINER CONSTRUCTION NOTES

1. GEOTEXTILE POND LINERS MAY BE CONSTRUCTED OVER SUBGRADE COMPOSED OF APPROPRIATE THICKNESS OF SUITABLE NATIVE SOILS COMPACTED AND PROOF-ROLLED TO A FIRM AND NON-YIELDING CONDITION TO LINE AND GRADES SHOWN ON THE PLAN SET.
2. GEOTEXTILE LINER MAY CONSIST OF 10-MIL-HIGH-DENSITY POLYETHYLENE (HDPE) (30 MIL MINIMUM THICKNESS), POLYVINYL CHLORIDE (PVC) (20 MIL MINIMUM THICKNESS), CLAYMAX TYPE BENTONITE CONTAINING FABRIC, OR OTHER APPROVED PERFORMANCE EQUIVALENT ADHERING A MAXIMUM PERMEABILITY OF 1 X 10^-9 CM/SEC.
3. GEOTEXTILE LINERS TO BE CONSTRUCTED PER MANUFACTURERS INSTRUCTIONS, INCLUDING SEAM SEALING AT COLL. EDGES AND ENDS.
4. THE POND LINER INSTALLATION CONTRACTOR SHALL PERFORM SUBTESTING DURING CONSTRUCTION TO DEMONSTRATE THAT THE LINER SEAMS ARE LESS PERMEABLE OR EQUAL TO THE SPECIFIED PERMEABILITY OF THE LINER MATERIAL AS A 10 S.
5. JOINT MATERIALS DOCUMENTED AS BEING INSTALLED PER MANUFACTURER'S INSTRUCTIONS WILL BE ASSUMED TO BE WITH IN ACCORDANCE WITH THE MANUFACTURER'S STATED LIMITS OF PERMEABILITY FOR THE LINER PRODUCT USED

DEVELOPER'S APPROVAL — DATE 6-8-03

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

CAUTION; NOTICE TO CONTRACTOR

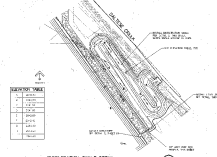
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON REPORTS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION OFFICE AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN.

CLC ASSOCIATES

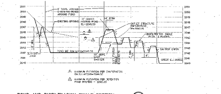
STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
PHASE 1A
SPOKANE COUNTY, WASHINGTON

POND DETAILS

PROJECT NUMBER
DRAWN BY: KJR
REVIEWED BY: MAG
CHECKED BY: TRW

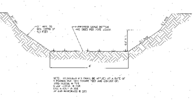


BIOFILTRATION SWALE DETAIL (1)



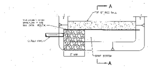
POND AND BIOFILTRATION SWALE SECTION (A)

NOT TO SCALE



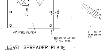
TYPICAL BIOFILTRATION SWALE SECTION (2)

NOT TO SCALE



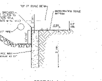
PLAN VIEW

NOT TO SCALE



LEVEL SPREADER PLATE

NOT TO SCALE



SECTION A–A

NOT TO SCALE

LEVEL SPREADER DETAIL (3)

NOT TO SCALE

NAVD'88 DATUM

UNDERGROUND SERVICE (USA) ONE-CALL NUMBER 456-8000

CAUTION: NOTICE TO CONTRACTOR

FOR LEGEND, SEE SHEET 1 OF 19.

DEVELOPER'S APPROVAL DATE

CLC ASSOCIATES

STREET IMPROVEMENT PLANS
MEADOWVIEW TERRACE
PHASE 1A
SPOKANE COUNTY, WASHINGTON

SWALE DETAILS

Eng Road & Drainage