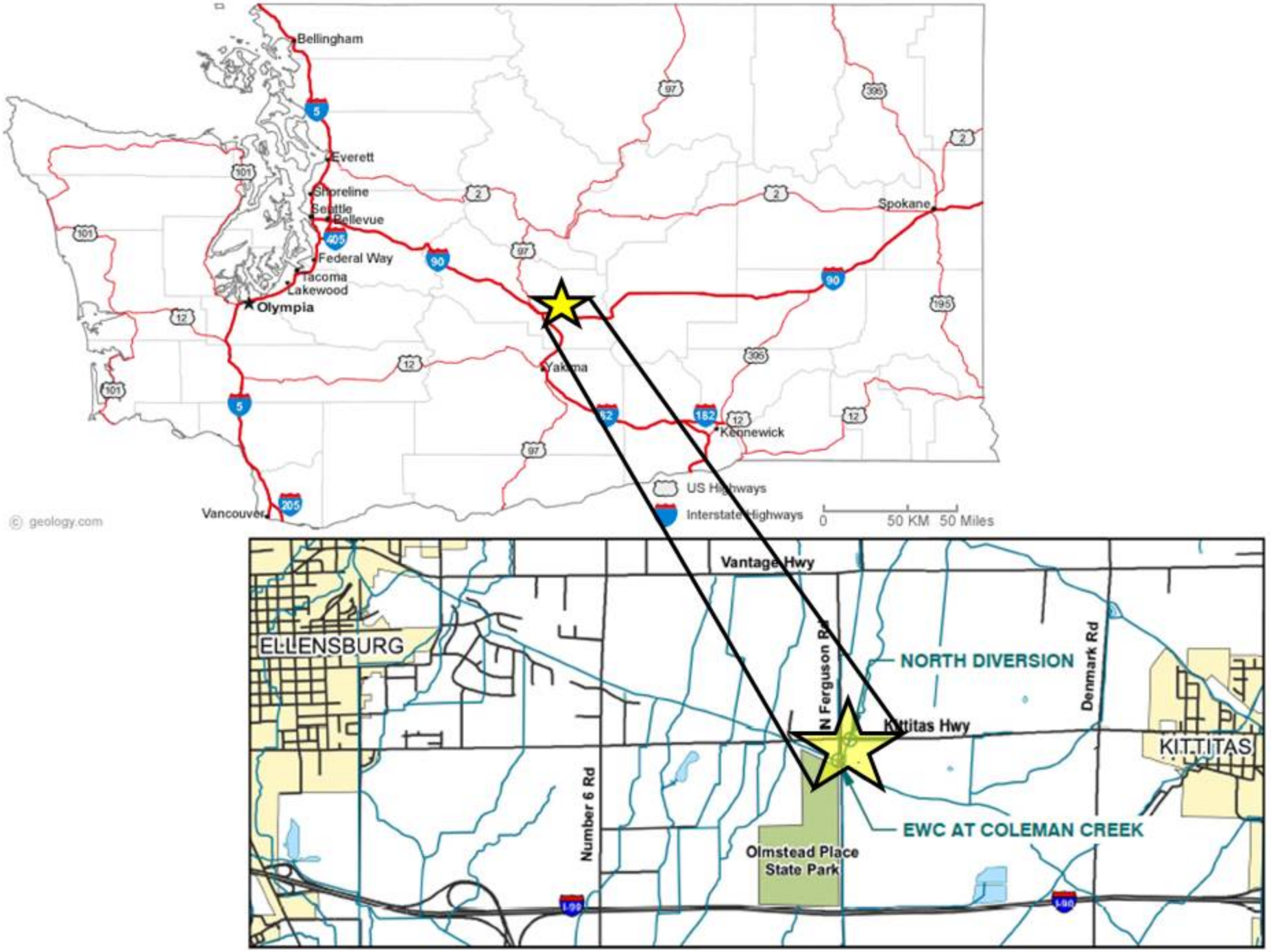
Bellingham
Everett
Shoreline
Seattle
Bellevue
Federal Way
Tacoma
Lakewood
Olympia
Vancouver
Yakima
Kennewick
Spokane
US Highways
Interstate Highways
0 50 KM 50 Miles
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Vantage Hwy
ELLENSBURG
N Ferguson Rd
NORTH DIVERSION
Denmark Rd
Kittitas Hwy
KITTITAS
Number 6 Rd
EWC AT COLEMAN CREEK
Olmstead Place
State Park

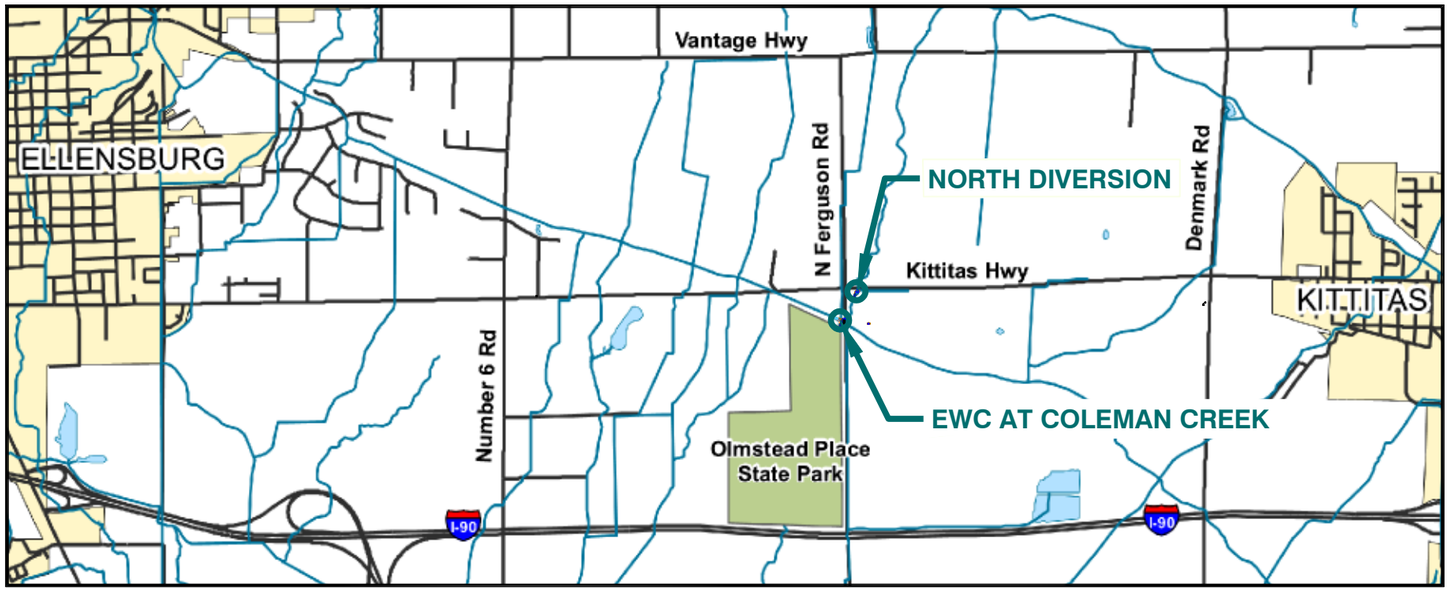
conserving natural resources for our future

KITTITAS COUNTY CONSERVATION DISTRICT

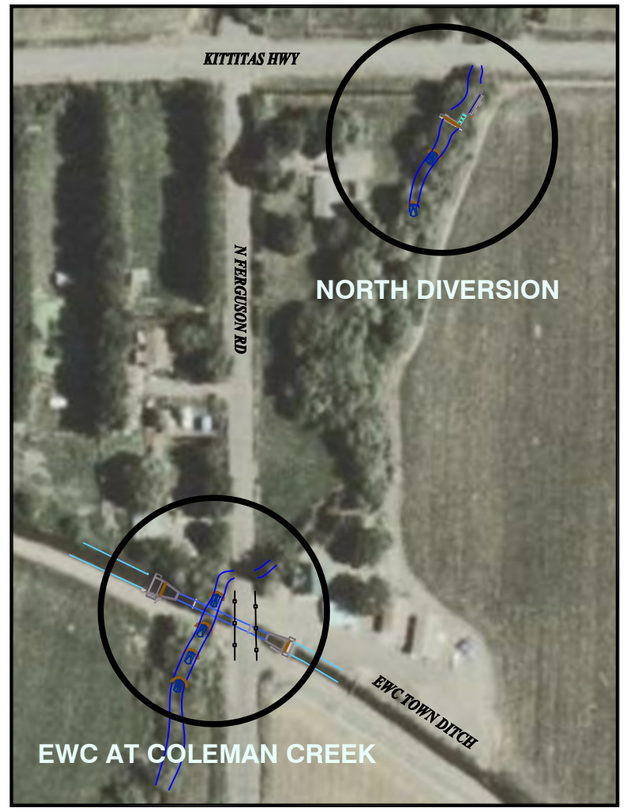
Ellensburg Water Company at Coleman Creek Project

Fall 2011

Volume II of II



VICINITY MAP



PROXIMITY MAP

1" = 100'

0 1" 2"

DRAWING IS NOT TO SCALE
IF BAR IS NOT 2" LONG

EWC TOWN DITCH CROSSING

NORTH DIVERSION

DESIGNED BY:

RH2 ENGINEERS PLANNERS SCIENTISTS

NOT FOR CONSTRUCTION
AGENCY REVIEW ONLY

RANDY L. ASPLUND STATE OF WASHINGTON 22780 REGISTERED PROFESSIONAL ENGINEER SIGNED: 04/29/10

PAUL R. CROSS STATE OF WASHINGTON 22808 REGISTERED PROFESSIONAL ENGINEER SIGNED: 04/29/10

LEGEND

EXISTING SYMBOLS

SURVEY

- CONTROL POINT
- ×1515.0 SPOT ELEVATION

SURFACE FEATURES

- BERM
- BUILDING
- ROCK FACING
- STREET SIGN
- TIMBER FOOT BRIDGE

UTILITIES

- CULVERT
- EXISTING IRRIGATION PIPE
- SANITARY SEWER MANHOLE
- TELEPHONE RISER
- UTILITY POLE

EXISTING LINETYPES

SURVEY

- MAJOR CONTOUR
- MINOR CONTOUR
- ROW/PARECEL BOUNDARIES

SURFACE FEATURES

- EDGE OF PAVEMENT
- EXISTING STREAM/CANAL
- FENCE
- EXISTING GUARDRAIL
- RETAINING WALL (6" OR 8" TYP)
- STREAMBED/DITCH

UTILITIES

- OHP — POWER (OVERHEAD)

PROPOSED SYMBOLS

SURFACE FEATURES

- LIGHT POLE
- ROCK BOULDERS
- TIMBER STRUCTURE

SURFACE HATCHING

- DITCH FILL
- RIP RAP

UTILITIES

- FLOW METER
- MANHOLE
- PIPE ELBOW (FLxFL)

PROPOSED LINETYPES

SURFACE FEATURES

- CONCRETE WALL
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED CANAL
- PROPOSED STREAM
- PROPOSED GUARDRAIL

UTILITIES

- ELECTRIC CONTROL CONDUIT
- POWER SUPPLY CONDUIT
- IRR IRR — PROPOSED PVC PIPE

BASIS OF SURVEY & UTILITY INFORMATION

SURVEY NOTES

1. THE SURVEY WAS CONDUCTED BY TRIAD ASSOCIATES. THE CONTRACTOR MAY EXPERIENCE VARIATIONS BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION OF UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF UTILITIES DISTURBED DURING CONSTRUCTION. REPAIRS ARE INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL CLEAN UP ALL AREAS AFFECTED BY ACTIVITIES TO THE SATISFACTION OF THE AGENCY AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY IF REQUIRED BY THE CONTRACTING AGENCY.
5. THE CONTRACTOR SHALL PERFORM WORK TO CONTROL SOIL EROSION AND POLLUTION PER TECHNICAL SPECIFICATIONS. RESTORATION OF ALL DISTURBED AREAS SHALL BE PERFORMED TO PRECONSTRUCTION CONDITION AND TO THE SATISFACTION OF KCCD.
6. ALL EQUIPMENT USED WITHIN THE STREAM CHANNEL SHALL BE OUTFITTED WITH VEGETABLE OIL (OR LIKE PRODUCT) NATURAL LUBRICANTS FOR HYDRAULIC SYSTEMS. THIS REQUIREMENT DOES NOT APPLY TO DRIVE TRAIN SYSTEMS.
7. CONTRACTOR SHALL COORDINATE STAGING AREA FOR EQUIPMENT AND SUPPLIES WITH LANDOWNERS.

BASIS OF SURVEY

BASIS OF BEARING: NAD83/91 WASHINGTON STATE PLANE SOUTH ZONE, US FOOT
DATUM: NAVD '88
SURVEY CONDUCTED BY TRIAD ASSOCIATES 08/19/2009

DISTRICT PERSONNEL

BOARD OF DIRECTORS
MARK MOORE, CHAIRMAN
LYNN BROWN, CHAIRMAN
JEFF BRUNSON, AUDITOR
DALE DYK
RON GIBB

DISTRICT MANAGER
ANNA LAEL

DISTRICT ENGINEER
RYAN ROBERTS, P.E.

CONTACT PERSONNEL

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KITTITAS COUNTY CONSERVATION DISTRICT	RYAN ROBERTS, P.E.	(509) 925-8585 EXT. 4
RH2 ENGINEERING	PAUL CROSS, P.E.	(509) 946-5181 EXT. 5452
ELLENSBURG WATER COMPANY	LARRY BROWNE	(509) 925-5596

ABBREV. LEGEND

ARR	ARRANGED
O/C	ON CENTER
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPE	CORRUGATED POLYETHYLENE (PIPE)
CVR	COVER
D/S	DOWNSTREAM
DIA	DIAMETER
EL	ELEVATION
EWC	ELLENSBURG WATER COMPANY
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HEIGHT
HH	HEX HEAD
ID	INNER DIAMETER
IE	INVERT ELEVATION
IPS	IRON PIPE SIZE
L	LENGTH
LF	LINEAR FEET
MH	MANHOLE
OD	OUTER DIAMETER
OHW	ORDINARY HIGH WATER MARK
PIP	PLASTIC IRRIGATION PIPE
PP/TR	POWER POLE/TRANSFORMER
RE	RIM ELEVATION
SCH	SCHEDULE
SS	STAINLESS STEEL
STA	STATION
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP	TYPICAL
U/S	UPSTREAM
UNC	UNIFIED COARSE (THREAD)
W	WIDTH
WSE	WATER SURFACE ELEVATION

CALL 48 HOURS BEFORE YOU DIG
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DEPT. OF ECOLOGY 1-800-258-5990

GENERAL CONDITIONS

1. THE PERMITTING DOCUMENTS INCLUDED AS APPENDICES OF THE CONTRACT DOCUMENTS ARE CONSIDERED PART OF THE WORK. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL ATTACHED PERMITTING DOCUMENTS AND PROVIDE A BID AS NECESSARY TO ASSURE COMPLIANCE WITH THESE DOCUMENTS. THE NOTES AND DIRECTIONS IN THESE PLANS AND SPECS ARE INTENDED ONLY TO CLARIFY AND SUPPLEMENT THOSE IN THE PERMITTING DOCUMENTS. ANY PERCEIVED DISCREPANCY BETWEEN THESE PLAN NOTES AND DETAILS, AND THE PERMITTING DOCUMENTS, SHALL BE NOTED IMMEDIATELY BY THE CONTRACTOR TO THE ENGINEER FOR CLARIFICATION. IN THE EVENT OF A DISCREPANCY, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
2. ALL CONSTRUCTION ACTIVITY SHALL BE CONDUCTED IN A MANNER THAT MINIMIZES THE NEGATIVE IMPACT ON THE STREAM, RIPARIAN ZONE, AND WATER QUALITY. ALL STREAM BYPASS AND TESC MATERIALS AND MEASURES SHALL MEET THE APPROVAL OF THE OWNER, ENGINEER, AND APPLICABLE PERMITTING AUTHORITIES AT ALL TIMES. ANY DIRECTION BY THE ENGINEER, OWNER, OR APPLICABLE PERMITTING AUTHORITIES TO CORRECT SITE MAINTENANCE DEFICIENCIES SHALL BE UNDERTAKEN IMMEDIATELY, AND SHALL BE THE CONTRACTOR'S TOP PRIORITY. THIS MAY, AT THE DIRECTION OF THE ENGINEERING, OWNER, OR APPLICABLE PERMITTING AUTHORITIES, INCLUDE STOPPING ALL OTHER WORK UNTIL THE SITUATION NOTED IS REMEDIED.

GENERAL NOTES

1. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND NOT NECESSARILY COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TRUE LOCATION SO AS TO AVOID DAMAGE OR DISTURBANCE
2. ALL CONSTRUCTION STAKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTOR TO RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION.
4. TEMPORARY SLOPES SHALL CONFORM TO ALL APPLICABLE SAFETY REGULATIONS AND SHALL BE COVERED WITH PLASTIC OR OTHER APPROVED MATERIAL DURING WET WEATHER TO REDUCE EROSION AND SLOPE FAILURE POTENTIAL.
5. SEE PLANS PG. D05 AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROL DETAILS.
6. SEE SPECIFICATIONS FOR SOILS REPORT.
7. DO NOT DISTURB EXISTING MONUMENTS OR SURVEY CONTROL POINTS.
8. ALL VEHICLES ARE TO BE CLEANED OF ALL EXCESS CONCRETE AND DIRT PRIOR TO LEAVING SITE. USE EXISTING DRIVEWAY TO WASH DOWN TRUCKS INCLUDING TIRES PRIOR TO ENTERING PAVED ROADS.
9. MAINTAIN ACCESS TO OWNER FACILITIES AT ALL TIMES UNLESS APPROVED COUNTY TRAFFIC CONTROL PLAN ALLOWS OTHERWISE.
10. PARKING FOR CONSTRUCTION PERSONNEL SHALL BE LIMITED TO AREAS WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE AUTHORIZED BY THE OWNER.

SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED.

REFERENCE BUBBLES

(ID / #XX) PLAN REFERENCE BUBBLE – REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL ORIGINATED.

(ID / #XX) SECTION REFERENCE BUBBLE – REFERS READER TO THE DRAWING ON WHICH THE SECTION IS LOCATED.

WHERE, ID = SECTION/DETAIL REFERENCE NUMBER
#XX = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SHEET INDEX

SHT NO.	DESCRIPTION	DWG NO.
1	Cover Sheet	CVR
2	General Information	G01
3	Survey Control and Demolition Plan	P01
4	Dewatering and Temp Sediment and Erosion Control	P02
5	Town Ditch Plan and Profile	P03
6	Coleman Creek at EWC Plan and Profile	P04
7	Coleman Creek at North Diversion Plan and Profile	P05
8	Traffic Control and Road Details	TC1
9	Inverted Siphon Details	D01
10	Canal Structure Details	D02
11	North Diversion Structure Details	D03
12	North Diversion Structure Details	D04
13	North Diversion Structure Details	D05
14	Moving Brush Trolley Details	D06
15	Diversion Yard Details	D07
16	Pipe Details	D08
17	Steel Details	D09
18	Rock Weir Details	D10
19	Electrical Legend	E01
20	Electrical Site Plan, One-Line, and Schedules	E02
21	Diversion Gate Control Logic	E03
22	Cleaner Motor Control Logic	E04
23	Electrical Details	E05
24	Electrical Cabinet and Control Panel Detail	E06

RANDY L. ASPINALL — STATE OF WASHINGTON — 22780 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

PAUL R. CROSS — STATE OF WASHINGTON — 22808 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Diversion

NOT FOR CONSTRUCTION
FOR REVIEW ONLY

GENERAL INFORMATION

RH2 ENGINEERS PLANNERS SCIENTISTS

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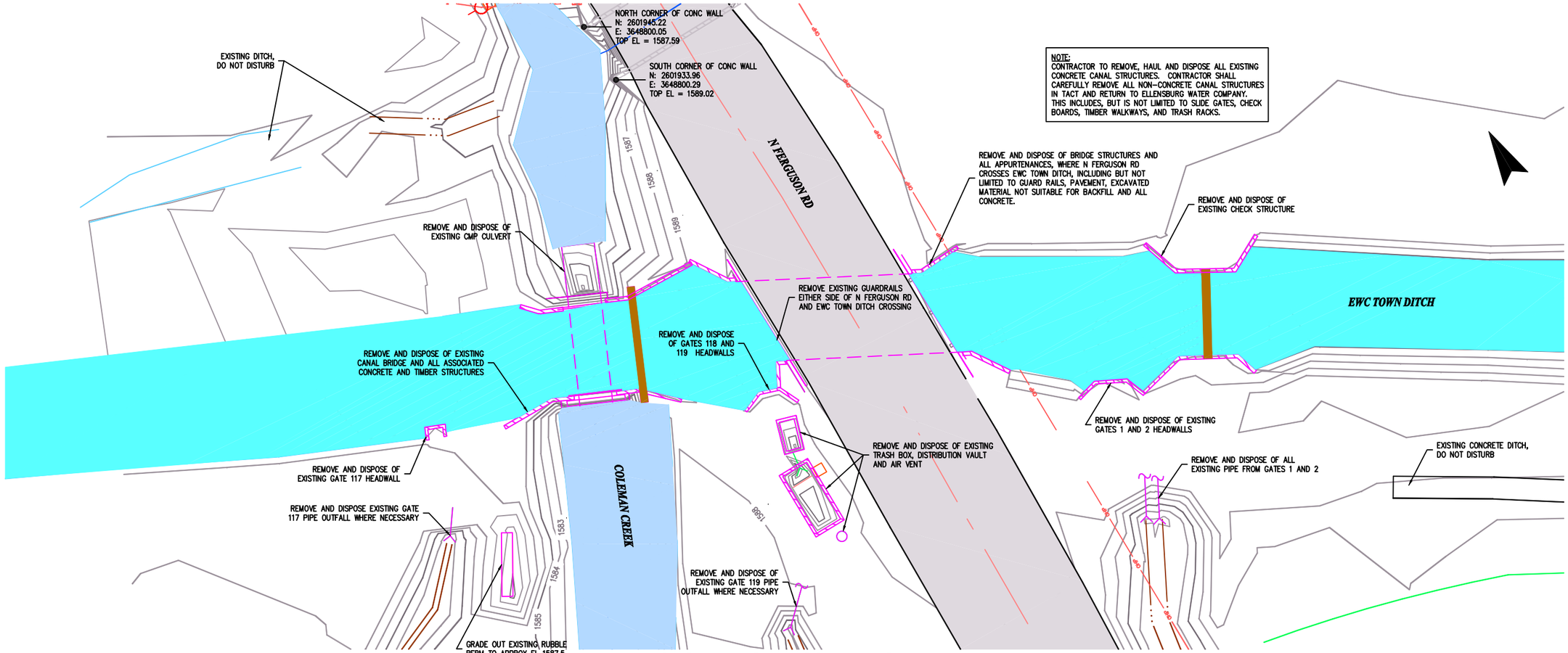
114 Columbia Point Drive, Suite C

SILVERDALE 360.876.7960
2021 NW Myhre Rd, Suite 107

TACOMA 253.272.3059
621 Pacific Avenue Suite 104

SCALE: SHOWN
0 1" 2"
DRAWING IS NOT TO SCALE IF BAR IS NOT 2" LONG

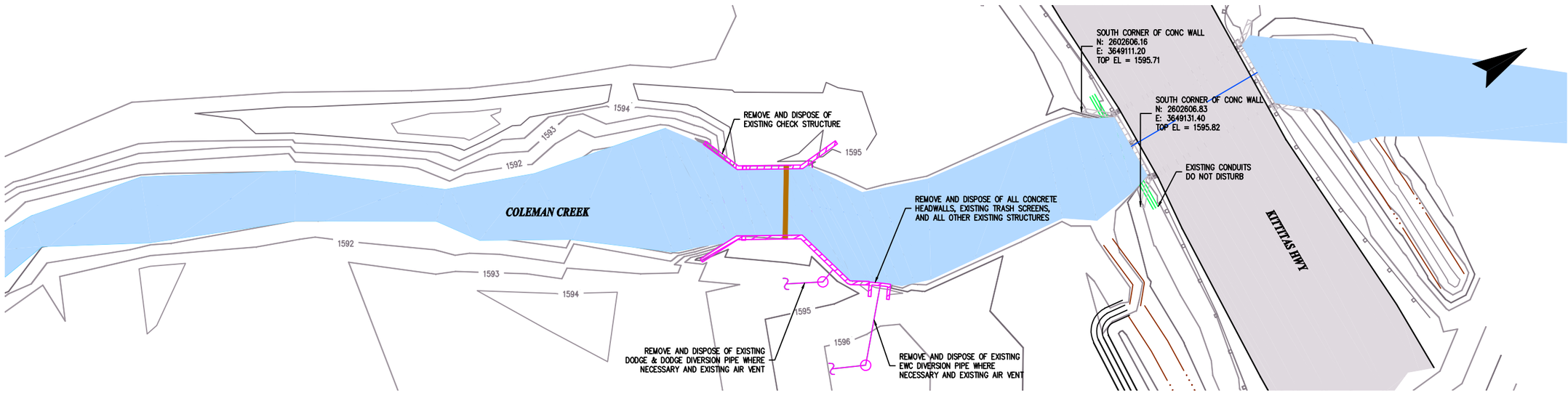
PLOT: 1	DWG NO. G01
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 2
CLIENT: KCCD	24
JOB NO.: 709-072	
FILENAME: CCR-D-G01	



NOTE:
CONTRACTOR TO REMOVE, HAUL AND DISPOSE ALL EXISTING CONCRETE CANAL STRUCTURES. CONTRACTOR SHALL CAREFULLY REMOVE ALL NON-CONCRETE CANAL STRUCTURES IN TACT AND RETURN TO ELLENSBURG WATER COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO SLIDE GATES, CHECK BOARDS, TIMBER WALKWAYS, AND TRASH RACKS.

EWC TOWN DITCH AT COLEMAN CREEK

1" = 10'



NORTH DIVERSION AT COLEMAN CREEK

1" = 10'

RANDY L. ASPLUND
STATE OF WASHINGTON
22780
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

PAUL R. CROSS
STATE OF WASHINGTON
22808
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Restoration

SURVEY CONTROL AND DEMOLITION PLAN

NOT FOR CONSTRUCTION
AGENCY REVIEW ONLY

RH2 ENGINEERS PLANNERS SCIENTISTS

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2021 NW Mhyre Rd, Suite 107

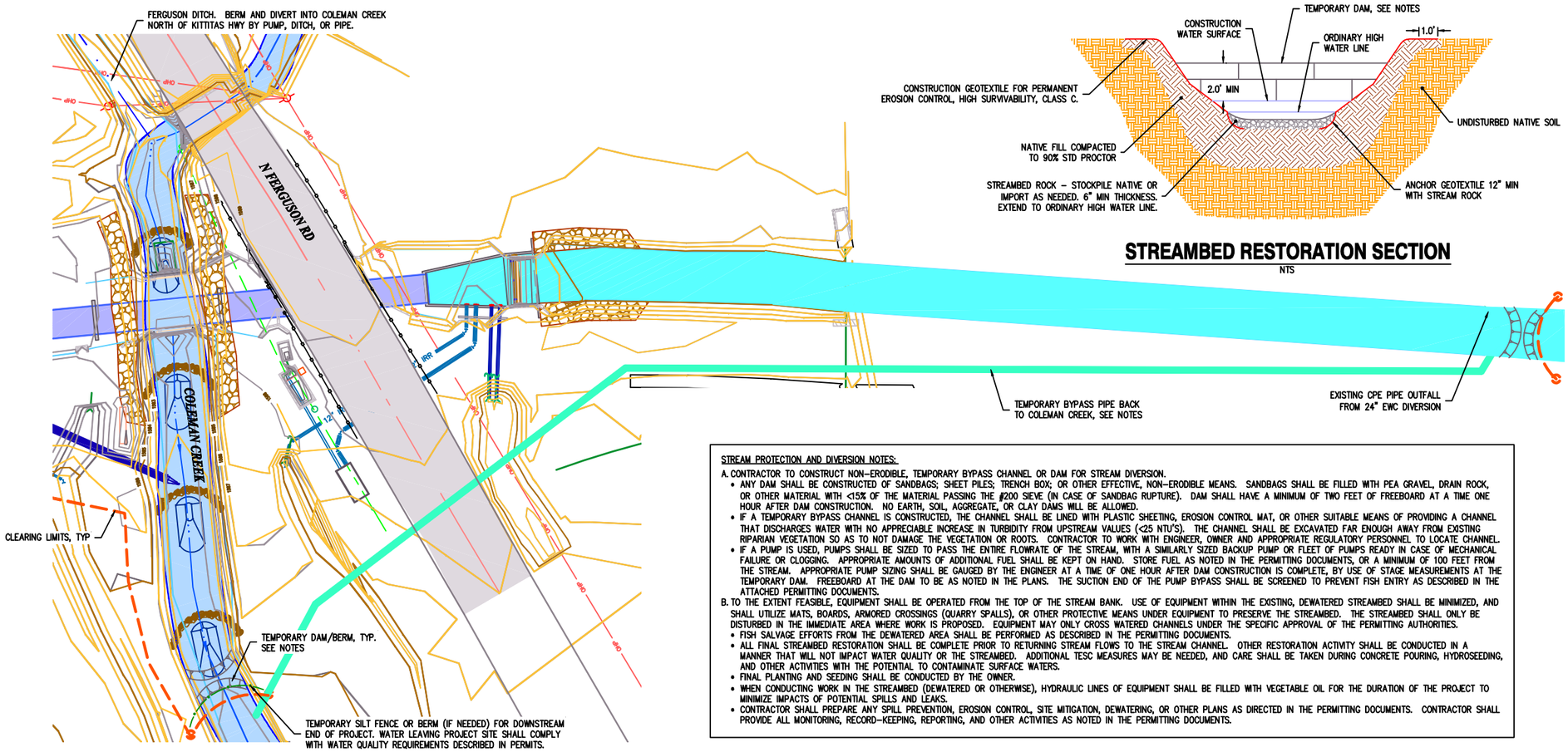
TACOMA 253.272.3059
621 Pacific Avenue Suite 104

SCALE: SHOWN
0 1" 2"
DRAWING IS NOT TO SCALE IF BAR IS NOT 2" LONG

PLOT: 10	DWG NO. P01
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 3
CLIENT: KCCD	24
JOB NO.: 709-072	
FILENAME: CCR-D-DEMO	

EWC TOWN DITCH AT COLEMAN CREEK
1" = 20'

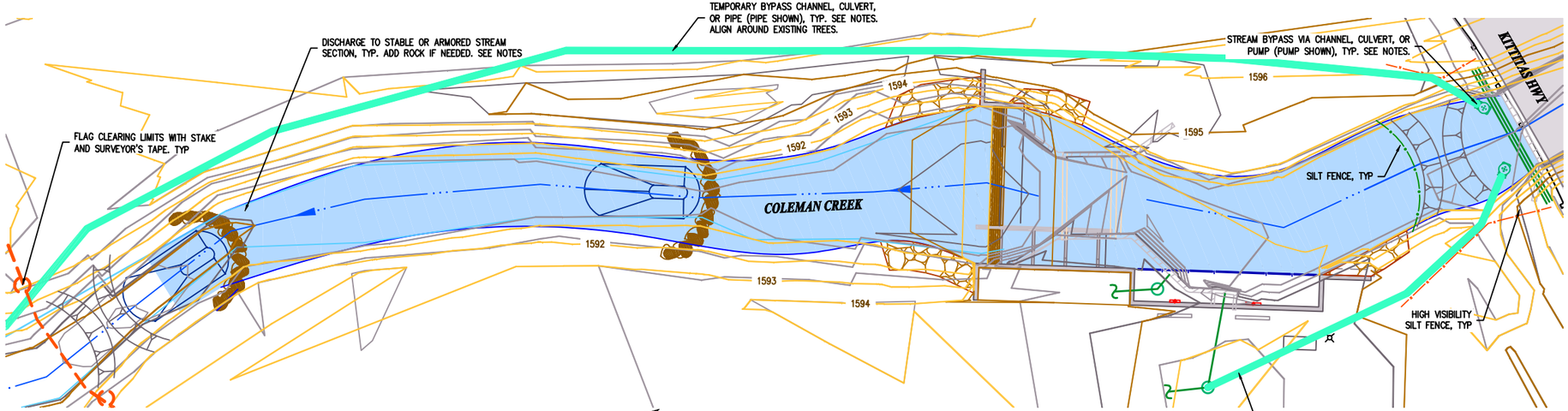
STREAMBED RESTORATION SECTION
NTS



STREAM PROTECTION AND DIVERSION NOTES:

A. CONTRACTOR TO CONSTRUCT NON–ERODIBLE, TEMPORARY BYPASS CHANNEL OR DAM FOR STREAM DIVERSION.
- ANY DAM SHALL BE CONSTRUCTED OF SANDBAGS; SHEET PILES; TRENCH BOX; OR OTHER EFFECTIVE, NON–ERODIBLE MEANS. SANDBAGS SHALL BE FILLED WITH PEA GRAVEL, DRAIN ROCK, OR OTHER MATERIAL WITH <15% OF THE MATERIAL PASSING THE #200 SIEVE (IN CASE OF SANDBAG RUPTURE). DAM SHALL HAVE A MINIMUM OF TWO FEET OF FREEBOARD AT A TIME ONE HOUR AFTER DAM CONSTRUCTION. NO EARTH, SOIL, AGGREGATE, OR CLAY DAMS WILL BE ALLOWED.
- IF A TEMPORARY BYPASS CHANNEL IS CONSTRUCTED, THE CHANNEL SHALL BE LINED WITH PLASTIC SHEETING, EROSION CONTROL MAT, OR OTHER SUITABLE MEANS OF PROVIDING A CHANNEL THAT DISCHARGES WATER WITH NO APPRECIABLE INCREASE IN TURBIDITY FROM UPSTREAM VALUES (<25 NTU'S). THE CHANNEL SHALL BE EXCAVATED FAR ENOUGH AWAY FROM EXISTING RIPARIAN VEGETATION SO AS TO NOT DAMAGE THE VEGETATION OR ROOTS. CONTRACTOR TO WORK WITH ENGINEER, OWNER AND APPROPRIATE REGULATORY PERSONNEL TO LOCATE CHANNEL.
- IF A PUMP IS USED, PUMPS SHALL BE SIZED TO PASS THE ENTIRE FLOWRATE OF THE STREAM, WITH A SIMILARLY SIZED BACKUP PUMP OR FLEET OF PUMPS READY IN CASE OF MECHANICAL FAILURE OR CLOGGING. APPROPRIATE AMOUNTS OF ADDITIONAL FUEL SHALL BE KEPT ON HAND. STORE FUEL AS NOTED IN THE PERMITTING DOCUMENTS, OR A MINIMUM OF 100 FEET FROM THE STREAM. APPROPRIATE PUMP SIZING SHALL BE GAUGED BY THE ENGINEER AT A TIME OF ONE HOUR AFTER DAM CONSTRUCTION IS COMPLETE, BY USE OF STAGE MEASUREMENTS AT THE TEMPORARY DAM. FREEBOARD AT THE DAM TO BE AS NOTED IN THE PLANS. THE SUCTION END OF THE PUMP BYPASS SHALL BE SCREENED TO PREVENT FISH ENTRY AS DESCRIBED IN THE ATTACHED PERMITTING DOCUMENTS.

B. TO THE EXTENT FEASIBLE, EQUIPMENT SHALL BE OPERATED FROM THE TOP OF THE STREAM BANK. USE OF EQUIPMENT WITHIN THE EXISTING, DEWATERED STREAMBED SHALL BE MINIMIZED, AND SHALL UTILIZE MATS, BOARDS, ARMORED CROSSINGS (QUARRY SPALLS), OR OTHER PROTECTIVE MEANS UNDER EQUIPMENT TO PRESERVE THE STREAMBED. THE STREAMBED SHALL ONLY BE DISTURBED IN THE IMMEDIATE AREA WHERE WORK IS PROPOSED. EQUIPMENT MAY ONLY CROSS WATERED CHANNELS UNDER THE SPECIFIC APPROVAL OF THE PERMITTING AUTHORITIES.
- FISH SALVAGE EFFORTS FROM THE DEWATERED AREA SHALL BE PERFORMED AS DESCRIBED IN THE PERMITTING DOCUMENTS.
- ALL FINAL STREAMBED RESTORATION SHALL BE COMPLETE PRIOR TO RETURNING STREAM FLOWS TO THE STREAM CHANNEL. OTHER RESTORATION ACTIVITY SHALL BE CONDUCTED IN A MANNER THAT WILL NOT IMPACT WATER QUALITY OR THE STREAMBED. ADDITIONAL TESC MEASURES MAY BE NEEDED, AND CARE SHALL BE TAKEN DURING CONCRETE POURING, HYDROSEEDING, AND OTHER ACTIVITIES WITH THE POTENTIAL TO CONTAMINATE SURFACE WATERS.
- FINAL PLANTING AND SEEDING SHALL BE CONDUCTED BY THE OWNER.
- WHEN CONDUCTING WORK IN THE STREAMBED (DEWATERED OR OTHERWISE), HYDRAULIC LINES OF EQUIPMENT SHALL BE FILLED WITH VEGETABLE OIL FOR THE DURATION OF THE PROJECT TO MINIMIZE IMPACTS OF POTENTIAL SPILLS AND LEAKS.
- CONTRACTOR SHALL PREPARE ANY SPILL PREVENTION, EROSION CONTROL, SITE MITIGATION, DEWATERING, OR OTHER PLANS AS DIRECTED IN THE PERMITTING DOCUMENTS. CONTRACTOR SHALL PROVIDE ALL MONITORING, RECORD–KEEPING, REPORTING, AND OTHER ACTIVITIES AS NOTED IN THE PERMITTING DOCUMENTS.



NORTH DIVERSION AT COLEMAN CREEK
1" = 10'

EROSION AND SEDIMENT CONTROL MEASURES:

1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO, OR IN CONJUNCTION WITH, ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY THE ENGINEER, OWNER, OR REGULATORY AGENCY. THE CONTRACTOR SHALL BE COGNIZANT OF INCOMING WEATHER PATTERNS AND PLAN ACCORDINGLY.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION, OR REVISED AS CONSTRUCTION ACTIVITIES DICTATE.
5. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED AS NEEDED TO PREVENT SEDIMENT FROM TRACKING ONTO NEARBY ROADS AND PREVENT SEDIMENT–LADEN WATERS FROM ENTERING SURFACE WATERS, INCLUDING ROADSIDE DITCHES. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND SEDIMENT TRACKING TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
6. DEWATERING IS TO BE EXPECTED ON THIS PROJECT. CONTRACTOR SHALL PERFORM DEWATERING AS NEEDED AND BY WHATEVER MEANS NECESSARY TO CONSTRUCT THE PROJECT, INCLUDING ANY DEWATERING NEEDED TO KEEP STREAM BEDS AND TRENCHES DRY FOR COMPACTION OF BACKFILL. ALL DEWATERING WATER SHALL BE DISCHARGED TO A VEGETATED AREA A MINIMUM OF 100 FEET FROM ANY SURFACE WATERS. CONTRACTOR SHALL MOVE DISCHARGE LOCATION OR REPAIR DISCHARGE LOCATION AS NECESSARY TO ASSURE THAT DEWATERING ACTIVITIES ARE NOT DETRIMENTAL TO NEARBY SURFACE WATERS, THE LIMITS OF WHICH ARE DESCRIBED IN THE PROJECT PERMITS. CONTRACTOR SHALL KEEP A PUMP ON HAND AND/OR PROVIDE SUFFICIENT DAMMING DOWNSTREAM OF PROJECT TO PREVENT SEEPAGE WATER FROM LEAVING THE DEWATERED STREAMBED WITHOUT BEING PUMPED OUT.
7. TESC MATERIALS ON HAND – THE CONTRACTOR SHALL KEEP A SUFFICIENT SUPPLY OF TESC MATERIALS ON HAND TO REMEDY ANY FAILURE OF TESC BMPS THAT IS DETRIMENTAL TO WATER QUALITY. THESE MATERIALS INCLUDE, BUT ARE NOT LIMITED TO: SANDBAGS, PLASTIC SHEETING, EROSION CONTROL BLANKET, QUARRY SPALLS OR OTHER ROCK, STRAW OR MULCH. SPILL CLEANUP KITS ARE REQUIRED TO BE ON SITE AT ALL TIMES, IN QUANTITIES OR SIZES APPLICABLE FOR THE EQUIPMENT AND MATERIALS BEING USED.
8. THE TESC FACILITIES SHALL BE INSPECTED BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF REVIEWS OF THE ESC FACILITIES. TESC FACILITIES SHALL BE INSPECTED AT THE BEGINNING AND END OF EACH WORK WEEK DURING NORMAL WORKING CONDITIONS, AND HOURLY DURING RAIN EVENTS. CONTRACTOR SHALL HAVE AN ESC LEAD THAT IS AVAILABLE FOR TESC WORK DURING NON–WORKING HOURS.
9. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR SEVEN CONSECUTIVE DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI–MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

SIPHON BYPASS NOTES:

1. SIPHON BYPASS PIPE SHALL BE GRAVITY OR PUMP FED.
2. CONTRACTOR MAY ADJUST BYPASS LOCATION TO ACCOMMODATE CONSTRUCTION.
3. BYPASS PIPE SHALL NOT CROSS OVER ROADWAY EXCEPT DURING ROAD CLOSURE ACCORDING TO COUNTY APPROVED TRAFFIC CONTROL PLAN.
4. SIPHON STREAM BYPASS SYSTEM TO ACCOMMODATE ALL CONSTRUCTION AT EWC TOWN DITCH/COLEMAN CREEK BARRIER SITE.
5. CONTRACTOR TO PROVIDE SILT FENCE AND/OR DAM AT EITHER END OF SIPHON CONSTRUCTION IF NECESSARY. SILT FENCE IS NECESSARY WHERE WATER IS PRESENT.

PROJECT CONSTRUCTION SEQUENCE:

1. HOLD THE PRE–CONSTRUCTION MEETING.
2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
3. FLAG OR FENCE CLEARING LIMITS.
4. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S) AS NEEDED.
5. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
6. CONSTRUCT SEDIMENT TRAPS AS NEEDED.
7. CLEAR AND GRADE BEGINNING PORTION OF SITE. ONLY 400 LF OF TRENCH AREA TO BE CLEARED AHEAD OF CONSTRUCTION AT ANY GIVEN TIME. CLEARING WITHIN STREAMBED AND STREAM BANK BUFFER SHALL BE LIMITED TO THE AREA WHICH CAN HAVE ALL WORK AND RESTORATION COMPLETED WITHIN THE WORKING WEEK. DISTURBED STREAMBED AND BUFFER AREAS SHALL NOT BE LEFT DISTURBED OVER WEEKENDS, HOLIDAYS, OR OTHER NON–WORKING PERIODS.
8. MAINTAIN AND RELOCATE EROSION CONTROL MEASURES AS NECESSARY TO REMAIN IN ACCORDANCE WITH PLANS, SPECS, PROJECT PERMITS, AND STATE STANDARDS.
9. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AS DESCRIBED IN THE PLANS, SPECS, AND PERMITS, AND REMOVE BMPS AS APPROPRIATE.

RANDY L ASPINALL — STATE OF WASHINGTON — 22780 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

PAUL R CROSS — STATE OF WASHINGTON — 22808 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: 04/29/10

Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Diversion
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DEWATERING AND TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

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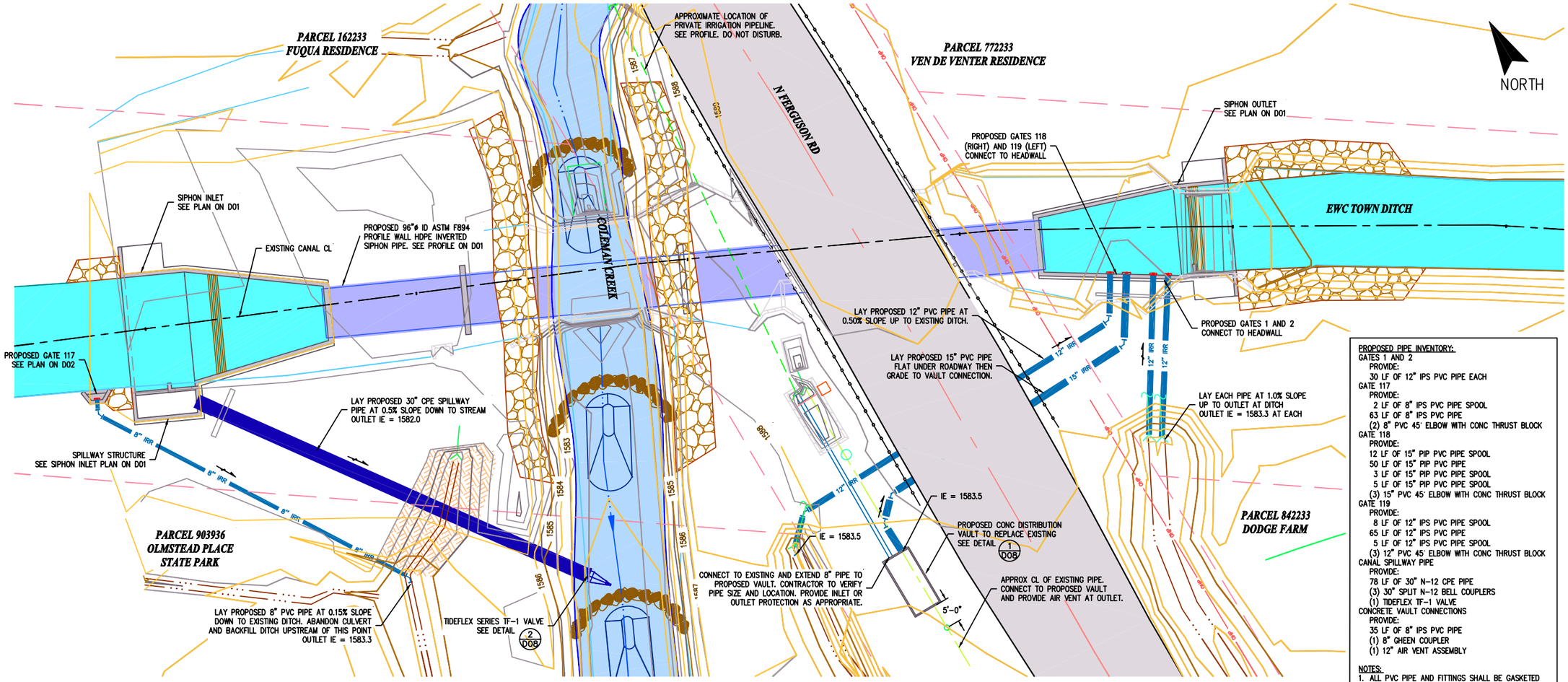
RICHLAND 509.946.5181 114 Columbia Point Drive, Suite C
SILVERDALE 360.876.7960 2021 NW Myhre Rd, Suite 107
TACOMA 253.272.3059 621 Pacific Avenue Suite 104

SCALE: SHOWN
0 1" 2"
DRAWING IS NOT TO SCALE IF BAR IS NOT 2" LONG

PLOT: 10	DWG NO. P02
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 4
CLIENT: KCCD	24
JOB NO.: 709–072	
FILENAME: CCR–P–TESC	



EWC TOWN DITCH CROSSING COLEMAN CREEK

1" = 10'

PROPOSED PIPE INVENTORY:

GATES 1 AND 2
- PROVIDE:
  - 30 LF OF 12" IPS PVC PIPE EACH

GATE 117
- PROVIDE:
  - 2 LF OF 8" IPS PVC PIPE SPOOL
  - 63 LF OF 8" IPS PVC PIPE
  - (2) 8" PVC 45° ELBOW WITH CONC THRUST BLOCK

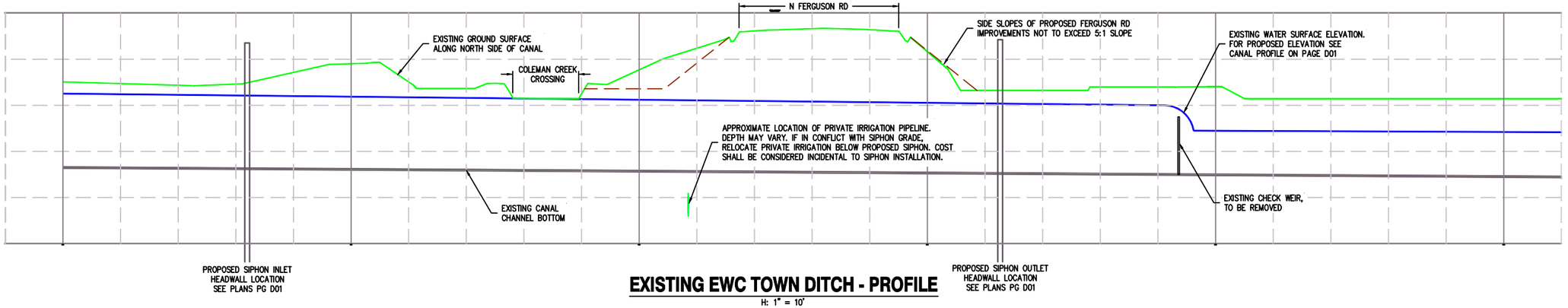
GATE 118
- PROVIDE:
  - 12 LF OF 15" PIP PVC PIPE SPOOL
  - 50 LF OF 15" PIP PVC PIPE
  - 3 LF OF 15" PIP PVC PIPE SPOOL
  - 5 LF OF 15" PIP PVC PIPE SPOOL
  - (3) 15" PVC 45° ELBOW WITH CONC THRUST BLOCK

GATE 119
- PROVIDE:
  - 8 LF OF 12" IPS PVC PIPE SPOOL
  - 65 LF OF 12" IPS PVC PIPE
  - 5 LF OF 12" IPS PVC PIPE SPOOL
  - (3) 12" PVC 45° ELBOW WITH CONC THRUST BLOCK

CANAL SPILLWAY PIPE
- PROVIDE:
  - 78 LF OF 30" N-12 CPE PIPE
  - (3) 30" SPLIT N-12 BELL COUPLERS
  - (1) TIDEFLEX TF-1 VALVE

CONCRETE VAULT CONNECTIONS
- PROVIDE:
  - 35 LF OF 8" IPS PVC PIPE
  - (1) 8" GHEEN COUPLER
  - (1) 12" AIR VENT ASSEMBLY

NOTES:
1. ALL PVC PIPE AND FITTINGS SHALL BE GASKETED
2. ALL PVC PIPE AND FITTINGS SHALL BE SDR 32.5
3. REFER TO SHEET D18 FOR PIPE DETAILS.
4. FORM AND POUR PIPE COLLARS 3-5 FEET DOWNSTREAM OF ALL PIPED HEADWALL ENTRANCES OF PIPES 8-30 INCHES IN DIAMETER. SEE DETAIL 3 ON PG D01.



EXISTING EWC TOWN DITCH - PROFILE

H: 1" = 10'
V: 1" = 2.5'

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Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Diversion

ELLENSBURG WATER COMPANY
EWC TOWN DITCH PLAN AND PROFILE

RH2 ENGINEERS PLANNERS SCIENTISTS

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SCALE: SHOWN
0 1" 2"
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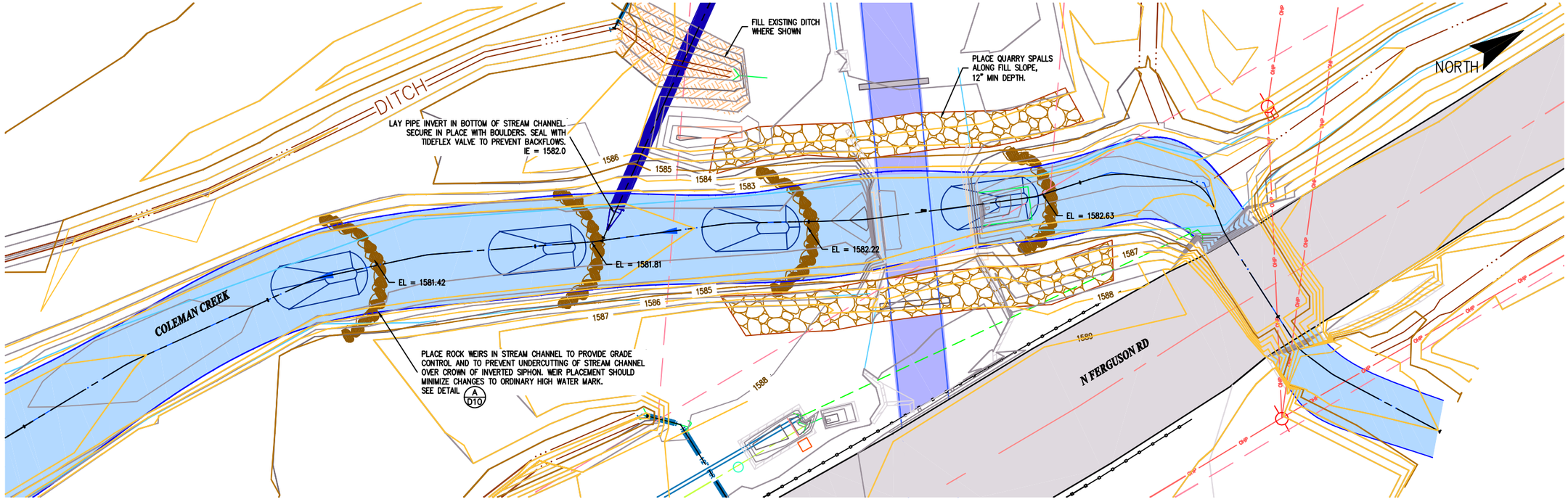
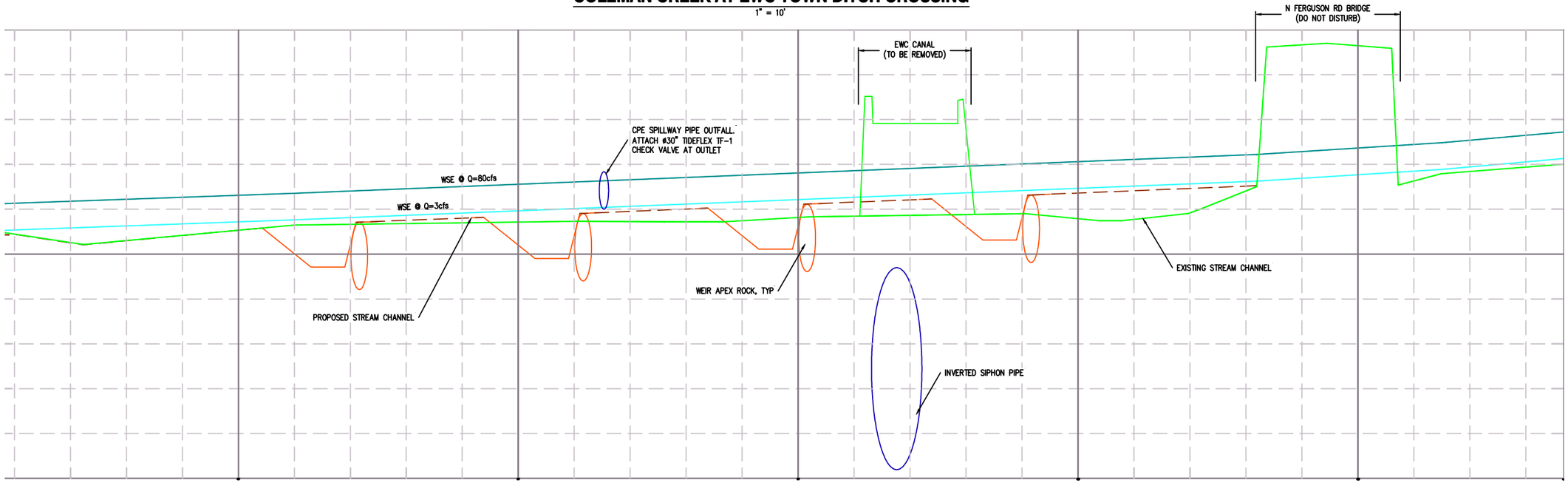
PLOT: 10	DWG NO. P03
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 5
CLIENT: KCCD	
JOB NO.: 709-072	24
FILENAME: CCR-D-PLANS	



COLEMAN CREEK AT EWC TOWN DITCH CROSSING

1" = 10'



COLEMAN CREEK AT EWC - PROFILE

H: 1" = 10'
V: 1" = 2.5'

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Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Restoration

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COLEMAN CREEK AT EWC TOWN DITCH
PLAN AND PROFILE

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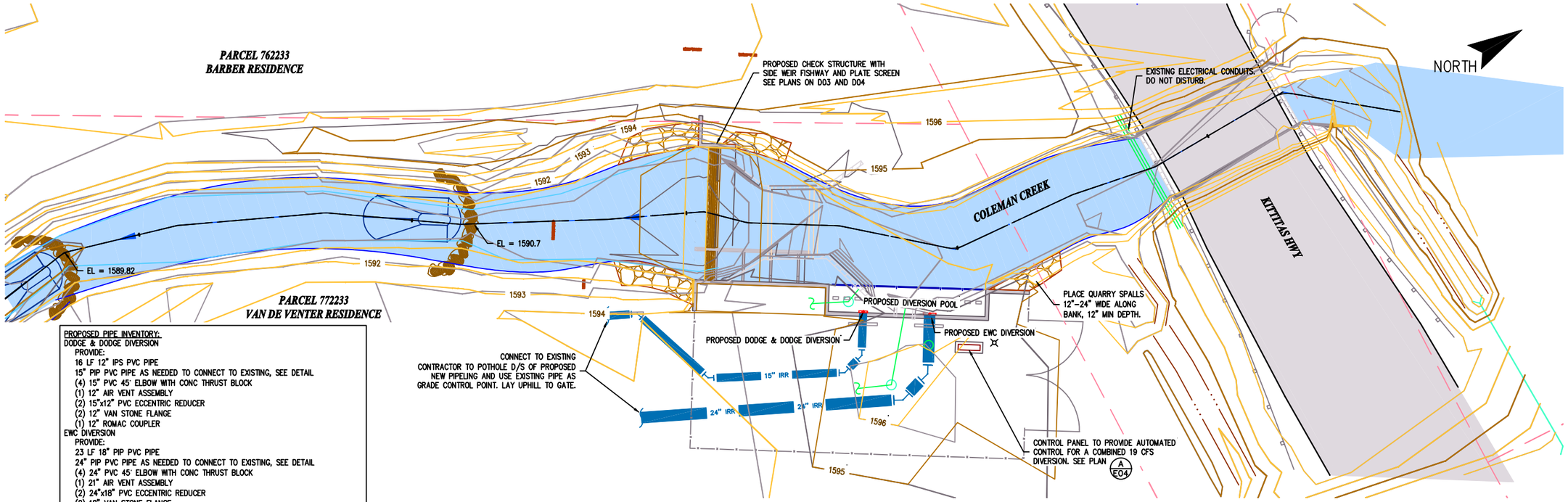
SCALE: SHOWN
0 1" 2"
DRAWING IS NOT TO SCALE IF BAR IS NOT 2" LONG

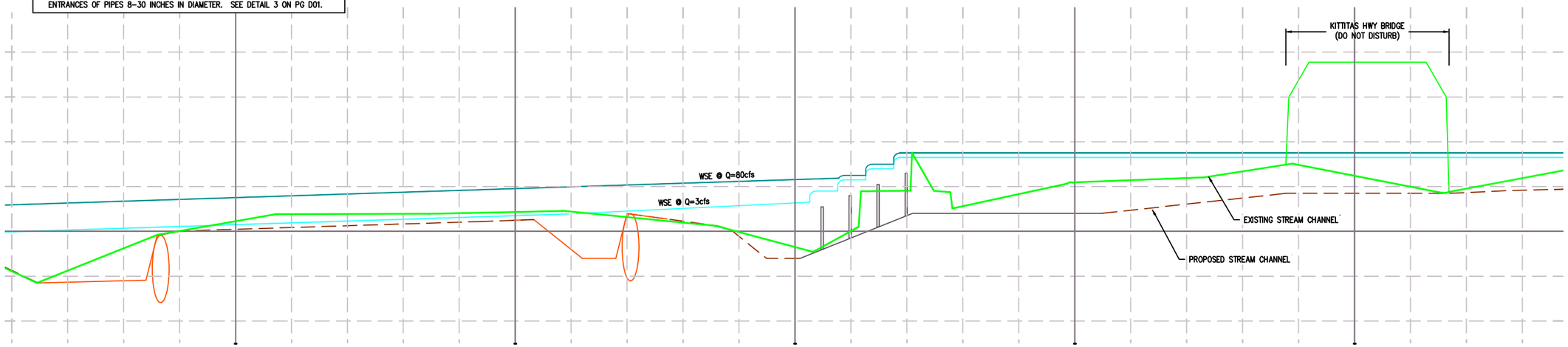
PLOT: 10	DWG NO. P04
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 6
CLIENT: KCCD	24
JOB NO.: 709-072	
FILENAME: CCR-D-PLANS	



NORTH DIVERSION BARRIER
1" = 10'

PROPOSED PIPE INVENTORY:
DODGE & DODGE DIVERSION
PROVIDE:
16 LF 12" IPS PVC PIPE
15" PIP PVC PIPE AS NEEDED TO CONNECT TO EXISTING, SEE DETAIL
(4) 15" PVC 45° ELBOW WITH CONC THRUST BLOCK
(1) 12" AIR VENT ASSEMBLY
(2) 15"x12" PVC ECCENTRIC REDUCER
(2) 12" VAN STONE FLANGE
(1) 12" ROMAC COUPLER
EWC DIVERSION
PROVIDE:
23 LF 18" PIP PVC PIPE
24" PIP PVC PIPE AS NEEDED TO CONNECT TO EXISTING, SEE DETAIL
(4) 24" PVC 45° ELBOW WITH CONC THRUST BLOCK
(1) 21" AIR VENT ASSEMBLY
(2) 24"x18" PVC ECCENTRIC REDUCER
(2) 18" VAN STONE FLANGE
(1) 18" ROMAC COUPLER

NOTES:
1. ALL PVC PIPE AND FITTINGS SHALL BE GASKETED
2. ALL PVC PIPE AND FITTINGS SHALL BE SDR 32.5
3. REFER TO SHEET D18 FOR PIPE DETAILS.
4. FORM AND POUR PIPE COLLARS 3-5 FEET DOWNSTREAM OF ALL PIPED HEADWALL ENTRANCES OF PIPES 8-30 INCHES IN DIAMETER. SEE DETAIL 3 ON PG D01.



NORTH DIVERSION - PROFILE
H: 1" = 10'
V: 1" = 2.5'

RANDY L. ASPLUND
STATE OF WASHINGTON
22750
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STATE OF WASHINGTON
22808
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SIGNED: 04/29/10

Kittitas County Conservation District
Ellensburg Water Company at Coleman Creek Project
Coleman Creek Diversion

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COLEMAN CREEK NORTH DIVERSION PLAN AND PROFILE

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SCALE: SHOWN
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PLOT: 10	DWG NO. P05
ENGINEER: EDK	
REVIEWED: PRC	
DATE: APR 30, 2010	SHEET NO. 7
CLIENT: KCCD	24
JOB NO.: 709-072	
FILENAME: CCR-D-PLANS	