SUBIS ADDITION

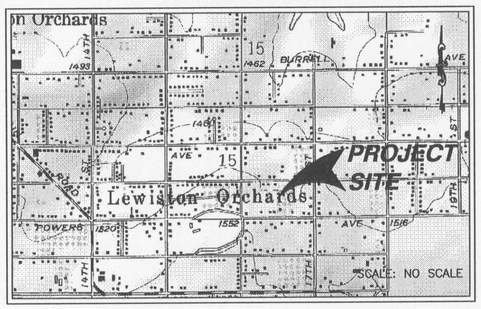
PART OF LOT 1, BLK 85, LEWISTON ORCHARDS TRACT #12, CITY OF LEWISTON, NEZ PERCE CO. IDAHO

11/16/07

RECEIVED MAR 13 2008

Subdivision Improvements

VICINITY MAP



CONTACT INFORMATION

PROJECT ADDRESS:	1633, 1635 ALDER AVE. LEWISTON, ID 83501
OWNER:	MARIANA SUBIS 3630 13TH STREET LEWISTON, ID 83501 PHONE: (208) 798-5491 FAX: (208) 746-4255
CIVIL ENGINEER: INSPECTOR:	C. RYAN FISKE, P.E. ANACLINE ENGINEERING 4045 EAGLE CT. LEWISTON, ID 83501 PHONE: (208) 791-8055 FAX: (208) 750-1082

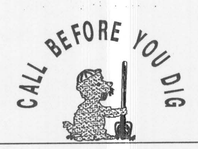
OPINION OF PROBABLE CONSTRUCTION QUANTITIES

SITE CUT = +182 C.Y.
SITE FILL = -2,610 C.Y.
STRUCTURAL FILL IMPORT = 2,425 C.Y.
STRIPPING (6") = 972 C.Y.
PAVEMENT = 14 TON
3/4" ROCK = 50 TON
HIGH BACK CURB & GUTTER = 10 L.F.
ROLLED CURB = 140 L.F.
WATER SERVICE LINE = 132 L.F.
IRRIGATION SERVICE LINE = 128 L.F.
STORM SERVICE LINE 6" = 90 L.F.
4" SEWER SERVICE LINE = 25 L.F. (L.O.S.D.)
6" SEWER SERVICE LINE = 25 L.F. (L.O.S.D.)
C-900 STORM SEWER MAIN 12" = 36 L.F.
ADS STORM SEWER MAIN 18" = 25 L.F.
WATER METER ASSEMBLY = 3 EA (L.O.I.D.)
IRRIGATION SERVICE = 3 EA (L.O.I.D.)
CATCH BASIN = 2 EA
2 SIDED FIRE DEPARTMENT SIGN = 1EA

NOTE: CUT AND FILL VOLUMES ARE A SURFACE TO SURFACE VOLUME AND DO NOT TAKE INTO ACCOUNT SITE CUT REQUIRED FOR LOT 'B' DRIVEWAY ACCESS, BUILDING FOOTINGS AND FLOOR SLAB VOLUMES. THE CONTRACTOR AND/OR DEVELOPER SHALL SATISFY FOR THEMSELVES THE QUANTITIES AND MATERIALS NEEDED TO COMPLETE THIS PROJECT.

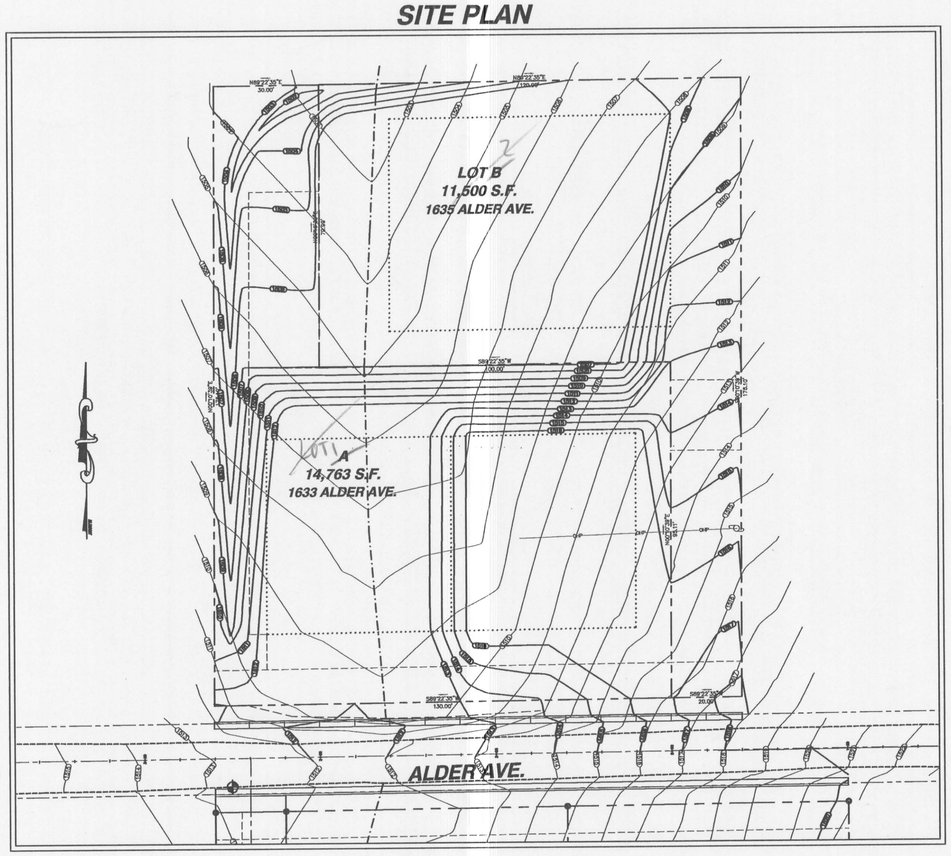
STANDARDS

1) IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (LATEST ED.)
2) NATIONAL ELECTRIC COUNCIL & LOCAL ELECTRIC CODES
3) AMERICAN WATER WORKS ASSOCIATION STANDARDS
4) IDAPA 58 & 10 STATE STANDARDS
5) CITY OF LEWISTON STANDARD DRAWINGS
6) INTERNATIONAL BUILDING CODE 2003
7) INTERNATIONAL FIRE CODE 2003
8) CENTRAL ORCHARDS SEWER DISTRICT STANDARDS



CONTRACTOR SHALL CALL 1-800-342-1585 & HAVE ALL UNDERGROUND UTILITIES LOCATED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION.

SITE PLAN



SHEET INDEX

LEGEND

CENTERLINE	
EXISTING R.O.W./PROPERTY LINE	
BUILDING SETBACK LINE	
FLOW LINE	
EDGE OF PAVEMENT	
BREAKLINE	
WATER MAIN	2"W
IRRIGATION MAIN	6"IRR
SANITARY SEWER	8"SAN
UNDERGROUND PHONE	PH
OVERHEAD POWER	OHP
STORM DRAIN LINE	18" SD
CONTOUR LINE	1081
UTILITY POLE	
SANITARY SEWER MANHOLE	S
FIRE HYDRANT	
WATER VALVE	
WATER METER	W
IRRIGATION SERVICE	
BRASS CAP OR PK NAIL	
PROPERTY CORNER	
SPIGOT	
UTILITY PEDESTAL	
FINISH GRADE	F.G.
BACK OF ROLLED CURB	B.R.C.
LIP OF CURB	LIP
MANHOLE OR DRYWELL	
CATCH BASIN	
FIRE DEPARTMENT SIGN	
TWO SIDED DIRE DEPT. SIGN	

RECEIVED MAR 13 2008 PUBLIC WORKS DEPT.

ENGINEERING DEPT. COPY

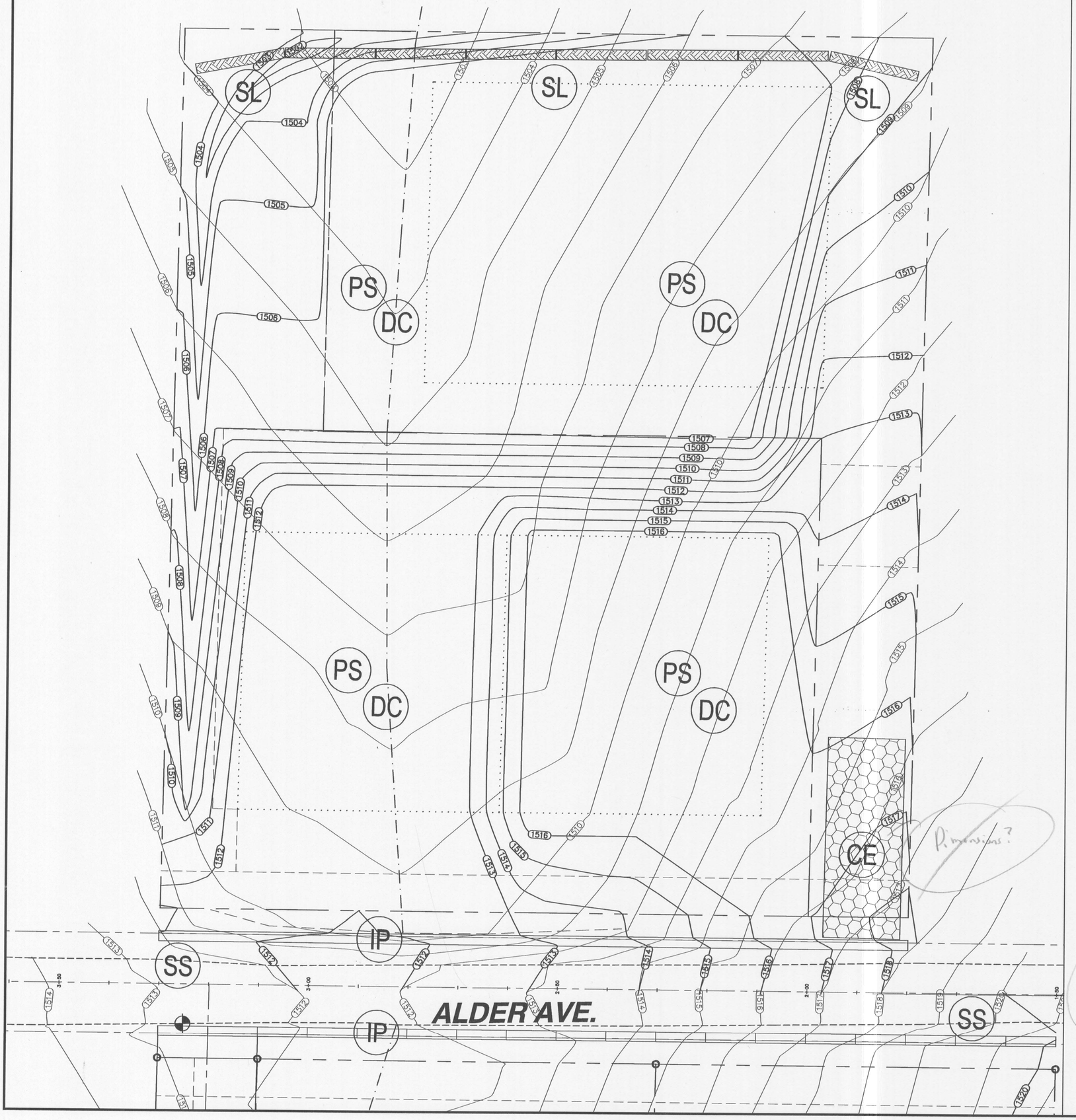
REGISTERED PROFESSIONAL ENGINEER 10962 3/5/08 STATE OF IDAHO CHARLES R. FISKE

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

NACLINE
ENGINEERING & DRAFTING
"an affordable alternative"

Subis Addition

08-000016



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

TRAFFIC CONTROL PLAN

ROAD CLOSED AHEAD

TO BE PLACED AT THE INTERSECTION OF:
1) ALDER & 17TH, 12' RT
2) ALDER & 16TH, 12' RT

ROAD CLOSED

TO BE PLACED AT:
1) ALDER AVE, STATION 1+40, CL
2) ALDER AVE, STATION 3+40, CL

Detour route?

NOTE: ALL TRENCHES IN THE RIGHT OF WAY SHALL BE CLOSED UP AT THE END OF EACH WORK DAY AND TRAFFIC CONTROL SIGNS SHALL BE PULLED OR COVERED. THE CONTRACTOR SHALL CONTACT THE SANITATION DEPARTMENT TO DETERMINE CITY SCHEDULE FOR TRASH WASTE, YARD WASTE AND RECYCLING PICK UPS AND WILL AVOID CONSTRUCTION IN THE RIGHT OF WAY DURING THESE SCHEDULED DAYS.

NOTE: THE CONTRACTOR WILL NOTIFY THE FIRE DEPARTMENT ON WHICH DAYS AND WHAT HOURS WORK IN THE RIGHT OF WAY WILL BE PERFORMED.

EROSION CONTROL LEGEND

CONSTRUCTION ENTRANCE (CE)
A stone pad, located at points of vehicular ingress and egress on a construction site, to reduce the soil transportation onto public roads and other paved areas. Location may vary from plan location.

DUST CONTROL (DC)
Reducing surface and air movement of dust during land disturbance, demolition or construction activities in areas subject to dust problems in order to prevent soil loss and reduce the presence of potentially harmful airborne substance.

PERMANENT SEEDING (PS)
Establishment of perennial vegetative cover by planting seed on rough-graded areas that will not be brought to grade for a period of a year or more or where permanent, long-lived vegetative cover is needed on fine-graded areas. Permanent seeding in turf areas shall match existing species. Permanent seeding on hill side shall be wheat grass variety.

STREET SWEEP (SS)
Where construction vehicle access routes intersect public streets, provisions shall be made to minimize the transportation of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a public street surface, the road shall be cleaned thoroughly. Periodic street sweeping may be required. Street washing shall be allowed only after sediment is first removed by sweeping.

INLET PROTECTION (IP)
The installation of various kinds of sediment trapping measures around drop inlets or curb inlet structures prior to permanent stabilization of the disturbed area, limited to drainage areas not exceeding one acre and not intended to control large, concentrated stormwater flows.

SEDIMENT LOGS (SL)
Sediment Logs consist of an outside open weave, containment fabric filled with curled fibers. Its purpose is to provide a flexible, lightweight porous, sediment control device, demonstrating the ability to conform to terrain details and dissipate water velocity in concentrated areas.

Dimensions?

Install non-distur site

NO.	DATE	BY	REVISIONS	FILENAME
0			ORIGINAL DRAWING	00104

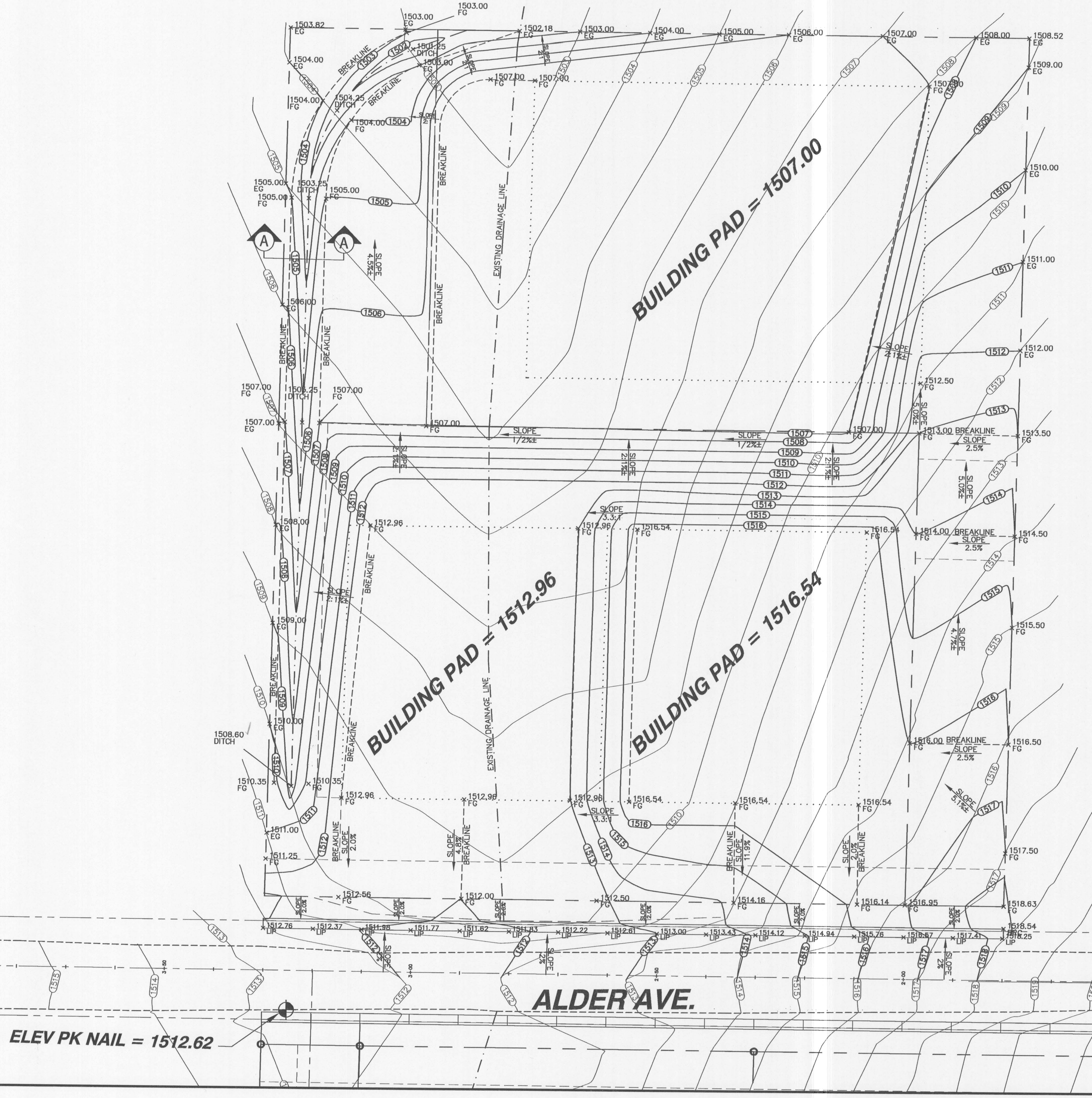
REGISTERED PROFESSIONAL ENGINEER 10962 STATE OF IDAHO CHARLES R. FISKE

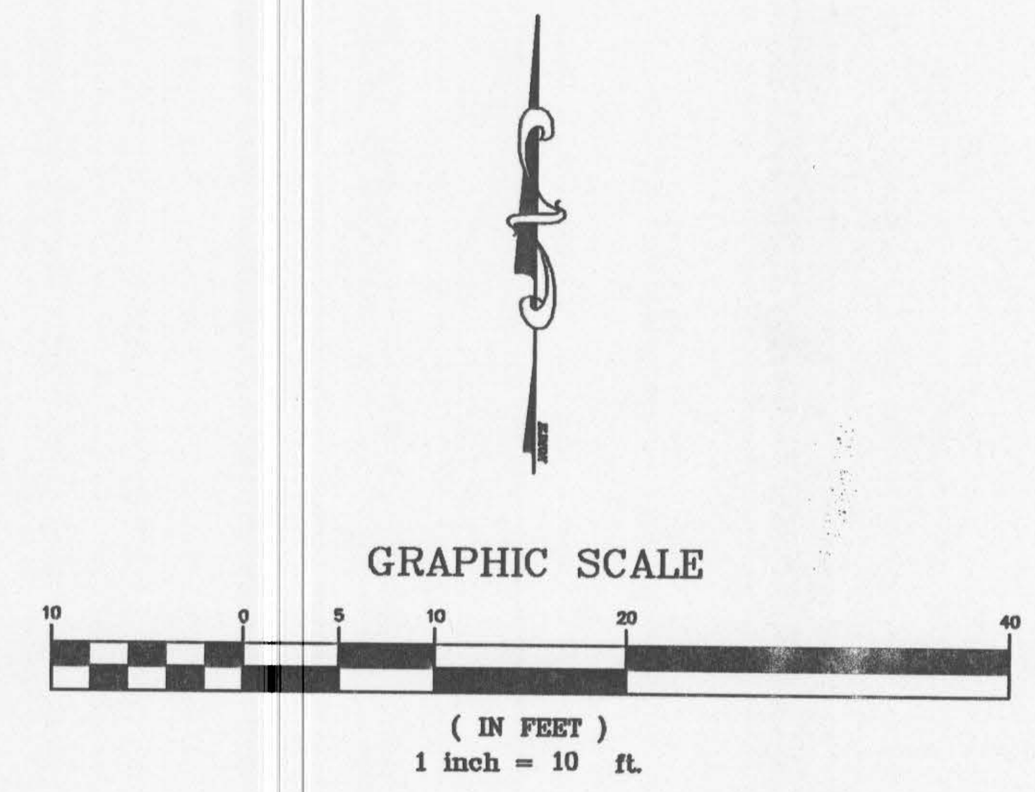
4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 791-1382
(208) 791-8065

NACLINE ENGINEERING & DRAFTING "an affordable alternative"

SUBIS ADDITION
LEWISTON, IDAHO
TRAFFIC CONTROL PLAN
E&S CONTROL PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY:	CRF
SCALE:	1" = 10'
DATE:	9/16/07
PROJECT NO.:	00104
SHEET 2	OF 8





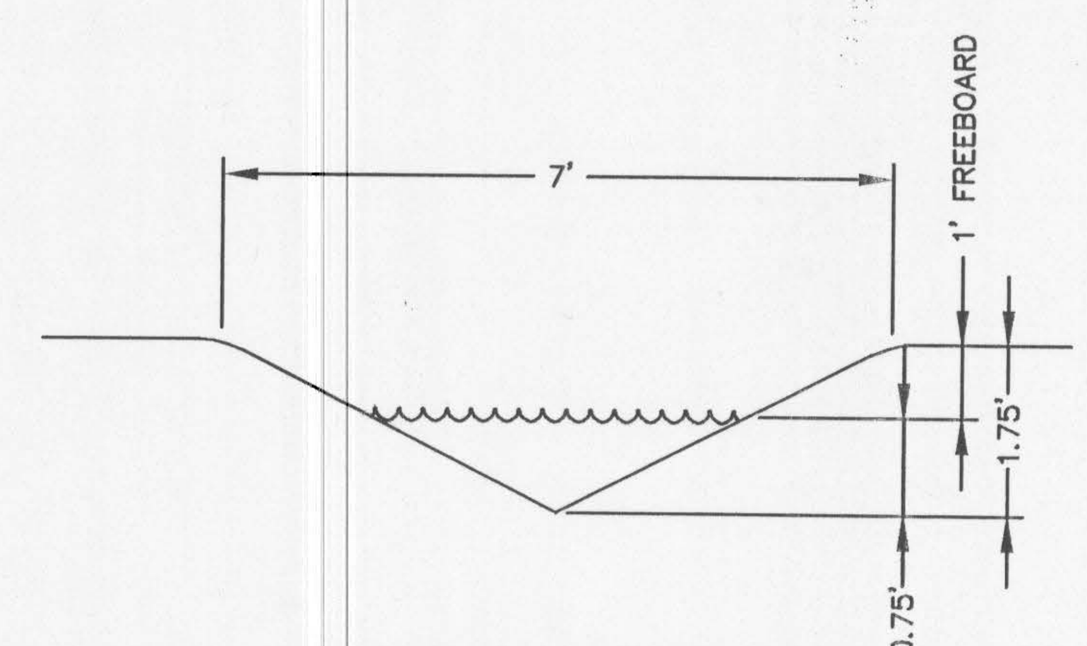
GRADING SPECIFICATIONS

PREPARATION OF GROUND: THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NON-COMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIALS, SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL AND, WHERE SLOPES ARE STEEPER THAN FIVE TO ONE AND THE FILL HEIGHT IS GREATER THAN 5 FEET, BY BENCHING INTO COMPETENT MATERIAL. THE BENCH UNDER THE TOE OF A FILL ON A SLOPE STEEPER THAN A FIVE TO ONE SHALL BE AT LEAST 10 FEET WIDE. WHEN FILL IS TO BE PLACED OVER CUT, THE BENCH OVER THE TOE OF FILL SHALL BE AT LEAST 10 FEET WIDE BUT THE CUT SHALL BE MADE BEFORE THE FILL AND SHALL BE SUITABLE FOUNDATION FOR FILL.

FILL MATERIAL: DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILL.

COMPACTION: ALL STRUCTURAL FILLS (UNDER RESIDENTIAL LOTS, BUILDINGS, AND PAVEMENT OR CONCRETE) SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY ACCORDING TO ASTM D1557 (MODIFIED PROCTOR). THE TOP 6 INCHES OF ALL ROAD SUBGRADES SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY. NON STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 85% OF MAXIMUM DENSITY ACCORDING TO ASTM D1557 (MODIFIED PROCTOR). ALL FILLS MUST BE CERTIFIED AS MEETING THESE SPECIFICATIONS BY A PROFESSIONAL ENGINEER. COMPACTION TESTS SHALL BE TAKEN ON EACH LIFT (MAXIMUM 8" LOOSE DEPTH IN STRUCTURAL FILLS AND 12" MAXIMUM LOOSE DEPTH IN NON STRUCTURAL FILLS) OF FILL PLACED.

TESTING: THE CONTRACTOR SHALL HIRE A MATERIAL TESTING LAB TO PERFORM MATERIALS TESTING OR OBSERVED TESTING (FOR ROCK FILL) AND PROVIDE THE TESTING RESULTS TO THE ENGINEER FOR APPROVAL.



DITCH SECTION A-A

NO SCALE

NO.	DATE	BY	FILENAME	REVISIONS
0			00104	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER 10962 STATE OF IDAHO CHARLES R. FISKE 3/3/08

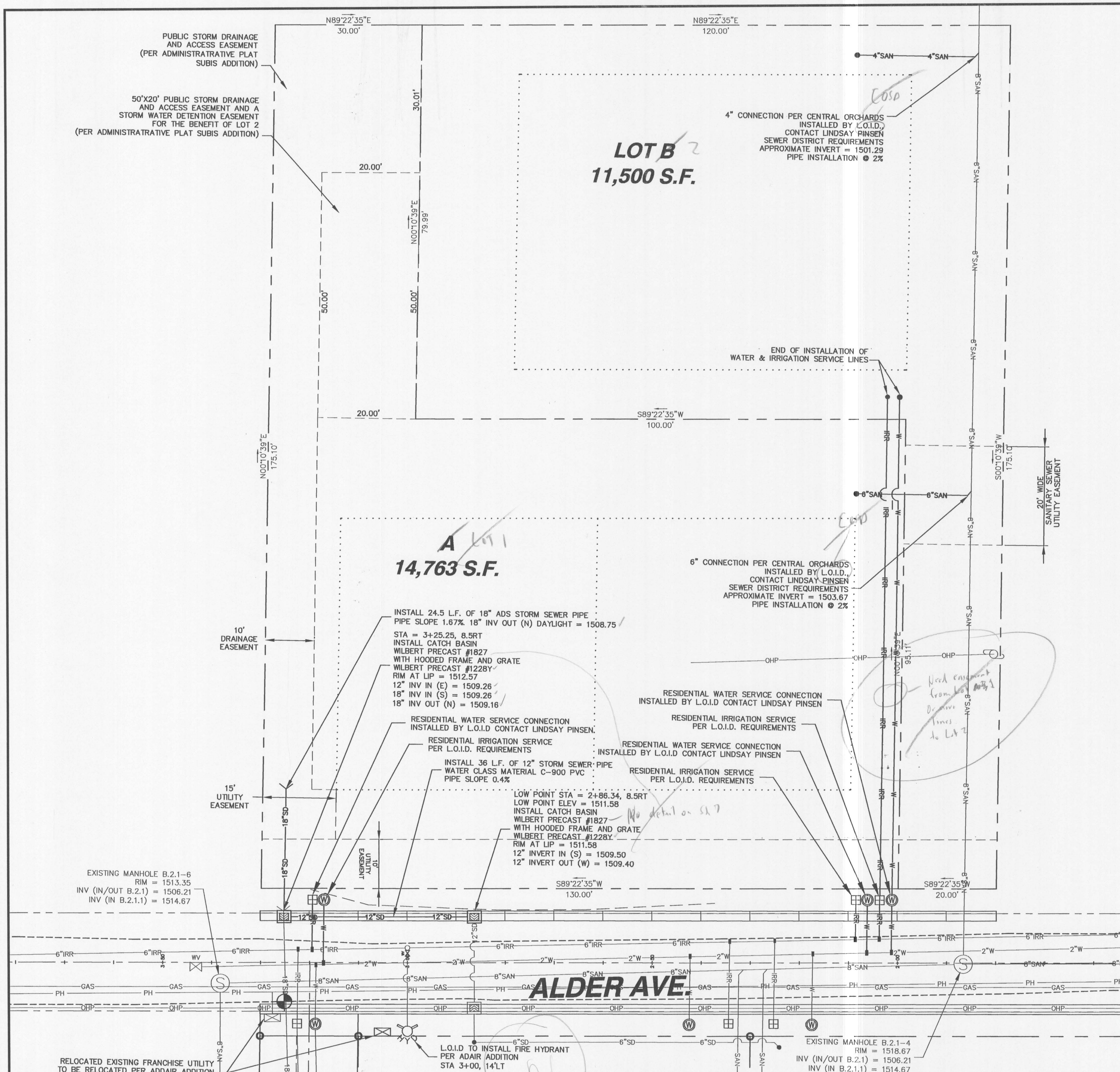
NACLINE ENGINEERING & DRAFTING
"an affordable alternative"
4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

SUBIS ADDITION

LEWISTON, IDAHO

GRADING PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 11/16/07	
PROJECT NO.: 00104	
SHEET 3 OF 8	



NOTE 1: FRANCHISE UTILITIES AS NEEDED.

NOTE 2: REMOVE EXISTING SPIGOTS AND SPIGOT IRRIGATION LINES AS NEEDED

NOTE 3: EACH HOME OWNER WILL NEED TO ADDRESS STORMWATER DETAINMENT BASED ON THE SQUARE FOOTAGE OF BUILDING CONSTRUCTED AND IMPERVIOUS SURFACES CREATED BY MEANS OF DITCHES, SWALES, DRYWELLS, INFILTRATAVE CHAMBERS, OR FRENCH DRAINS. OVERFLOW FROM THESE STRUCTURES MAY BE DIRECTED TO THE WESETERN DRAINAGE DITCH SEE CITY CHART BELOW.

IMPERVIOUS AREA (S.F.)	REQUIRED STORAGE (C.F.)
2000	64
3000	95
4000	127
5000	159
5500	175
6000	191
6500	207
7000	223
7500	239
8000	255
8500	270
9000	285
9500	302
10000	318

NOTE 4: THE EXISTING UTILITY INFORMATION SHOWN IS A COMPILATION OF FIELD DATA AND INFORMATION PROVIDED BY VARIOUS UTILITY ENTITIES. ANACLINE ENGINEERING, PLLC CANNOT WARRANTY THAT THE INFORMATION PROVIDED BY THE UTILITY ENTITIES IS ACCURATE OR TRUE. THEREFORE THE CONTRACTOR SHALL CONTACT THE "CALL DIG" NUMBER PRIOR TO ANY EXCAVATION.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

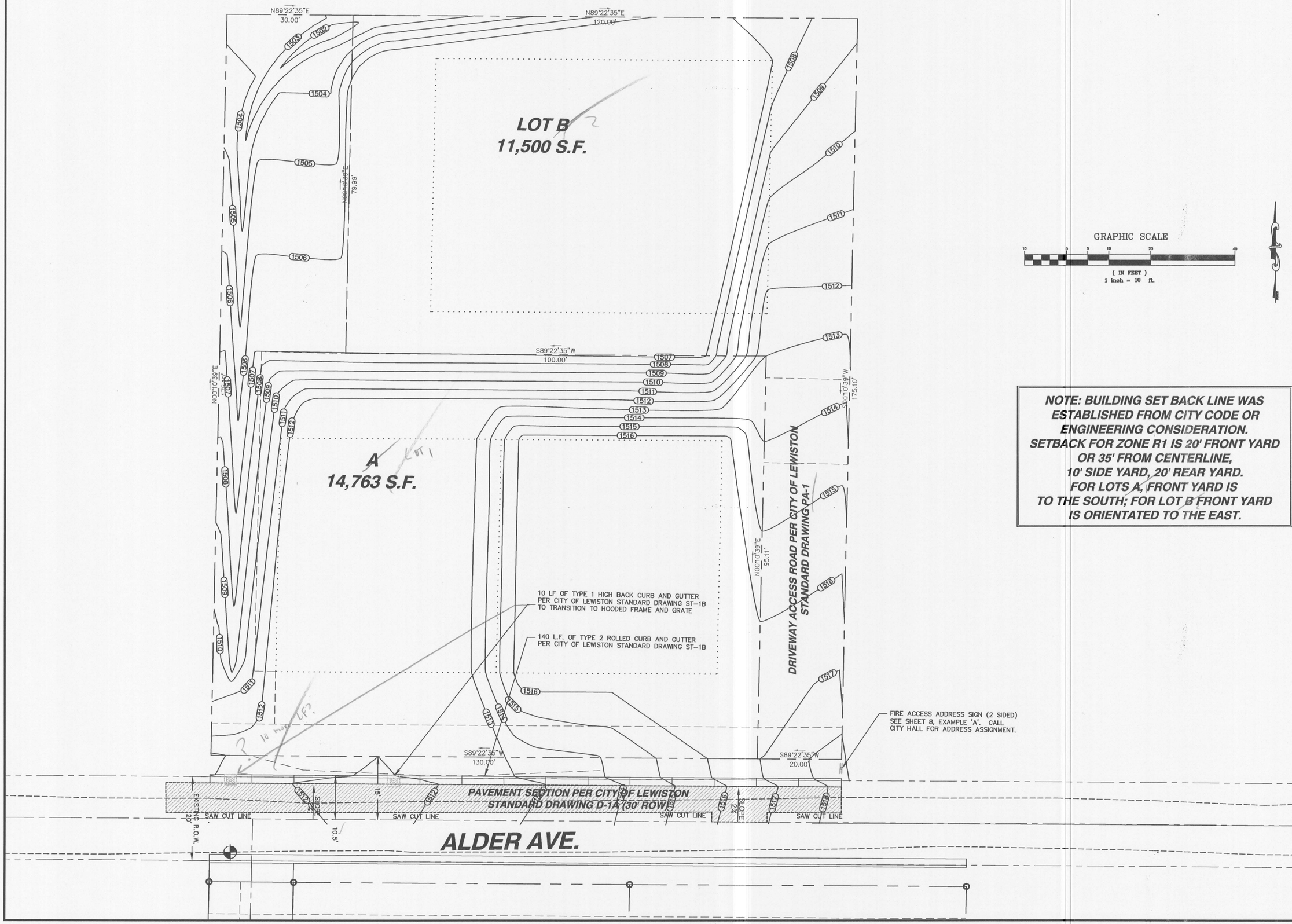
NO.	DATE	BY	FILENAME	REVISIONS
0			00104	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER 10962 STATE OF IDAHO CHARLES R. FISKE

ANACLINE ENGINEERING & DRAFTING "an affordable alternative"
4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

SUBIS ADDITION
LEWISTON, IDAHO
UTILITY PLAN

DRAWN BY: CRF
CHECKED BY: CRF
DESIGNED BY: CRF
SCALE: 1" = 10'
DATE: 9/16/07



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NOTE: BUILDING SET BACK LINE WAS ESTABLISHED FROM CITY CODE OR ENGINEERING CONSIDERATION. SETBACK FOR ZONE R1 IS 20' FRONT YARD OR 35' FROM CENTERLINE, 10' SIDE YARD, 20' REAR YARD. FOR LOTS A, FRONT YARD IS TO THE SOUTH; FOR LOT B FRONT YARD IS ORIENTATED TO THE EAST.

NO.	DATE	BY	FILENAME	REVISIONS	ORIGINAL DRAWING
					00104
					0

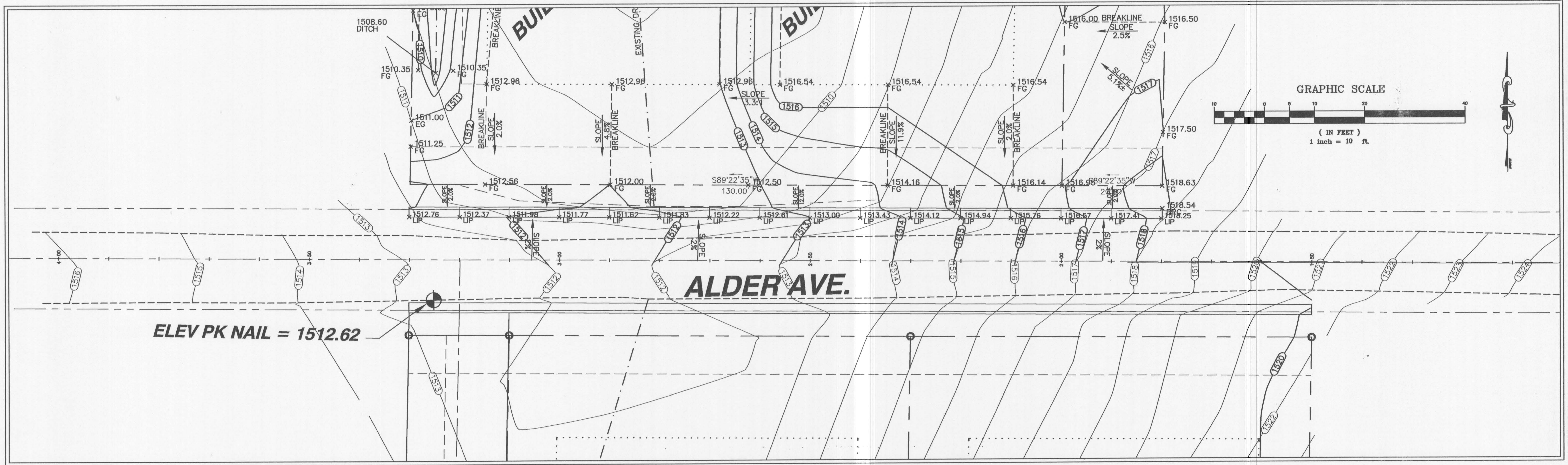
REGISTERED PROFESSIONAL ENGINEER CHARLES R. FISKE 10962 STATE OF IDAHO

4028 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8085

NACLINE ENGINEERING & DRAFTING "an affordable alternative"

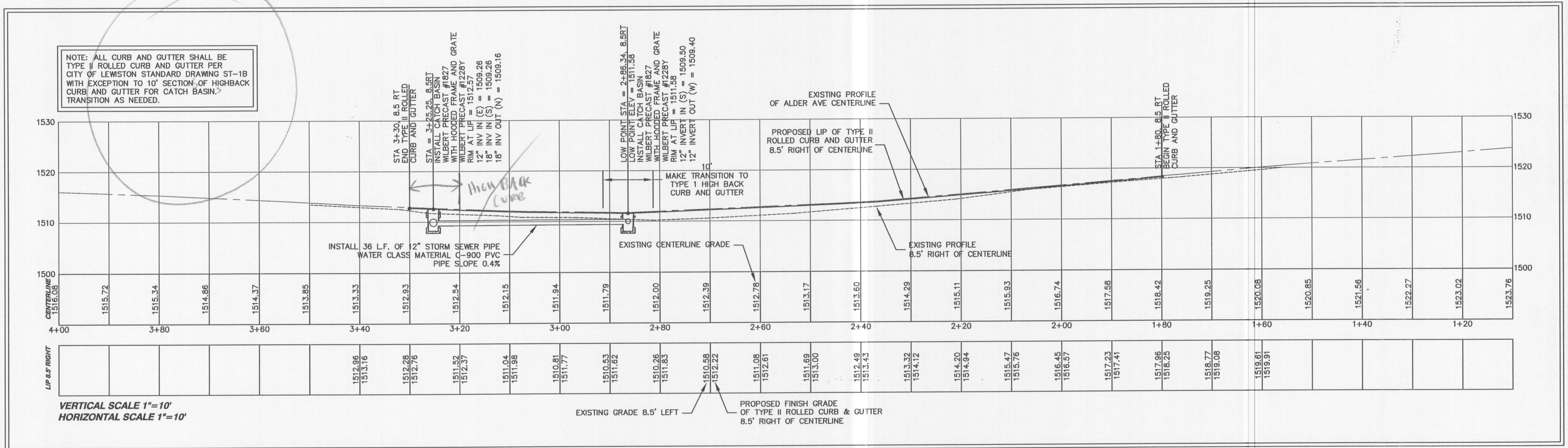
SUBIS ADDITION
LEWISTON, IDAHO
CIVIL PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY:	CRF
SCALE:	1" = 10'
DATE:	9/16/07
PROJECT NO.:	00104
SHEET	5 OF 8



ALDER AVE. PLAN VIEW

NOTE: A RIGHT-OF WAY PERMIT IS REQUIRED FOR ALL CONSTRUCTION IN THE RIGHT-OF-WAY


NOTE: ALL CURB AND GUTTER SHALL BE TYPE II ROLLED CURB AND GUTTER PER CITY OF LEWISTON STANDARD DRAWING ST-1B WITH EXCEPTION TO 10' SECTION OF HIGHBACK CURB AND GUTTER FOR CATCH BASIN. TRANSITION AS NEEDED.
STA 3+30, 8.5 RT END TYPE II ROLLED CURB AND GUTTER
STA = 3+25.25, 8.5RT INSTALL CATCH BASIN WILBERT PRECAST #1827 WITH HOODED FRAME AND GRATE WILBERT PRECAST #1228Y RIM AT LIP = 1512.57 12" INV IN (E) = 1509.26 18" INV IN (S) = 1509.26 18" INV OUT (N) = 1509.16
HIGH BACK CURB
LOW POINT STA = 2+86.34, 8.5RT LOW POINT ELEV = 1511.58 INSTALL CATCH BASIN WILBERT PRECAST #1827 WITH HOODED FRAME AND GRATE WILBERT PRECAST #1228Y RIM AT LIP = 1511.58 12" INVERT IN (S) = 1509.50 12" INVERT OUT (W) = 1509.40
10'
MAKE TRANSITION TO TYPE 1 HIGH BACK CURB AND GUTTER
EXISTING PROFILE OF ALDER AVE CENTERLINE
PROPOSED LIP OF TYPE II ROLLED CURB AND GUTTER 8.5' RIGHT OF CENTERLINE
STA 1+80, 8.5 RT BEGIN TYPE II ROLLED CURB AND GUTTER
INSTALL 36 L.F. OF 12" STORM SEWER PIPE WATER CLASS MATERIAL C-900 PVC PIPE SLOPE 0.4%
EXISTING CENTERLINE GRADE
EXISTING PROFILE 8.5' RIGHT OF CENTERLINE
1530
1520
1510
1500
CENTERLINE
1516.08 1515.72 1515.34 1514.86 1514.37 1513.85 1513.33 1512.93 1512.54 1512.15 1511.94 1511.79 1512.00 1512.39 1512.78 1513.17 1513.60 1514.29 1515.11 1515.93 1516.74 1517.58 1518.42 1519.25 1520.08 1520.85 1521.56 1522.27 1523.02 1523.76
4+00 3+80 3+60 3+40 3+20 3+00 2+80 2+60 2+40 2+20 2+00 1+80 1+60 1+40 1+20
LIP 8.5' RIGHT
1512.96 1513.16
1512.28 1512.76
1511.52 1512.37
1511.04 1511.98
1510.81 1511.77
1510.53 1511.62
1510.26 1511.83
1510.58 1512.22
1511.08 1512.61
1511.69 1513.00
1512.49 1513.43
1513.32 1514.12
1514.20 1514.94
1515.47 1515.76
1516.45 1516.57
1517.23 1517.41
1517.96 1518.25
1518.77 1519.08
1519.61 1519.91
EXISTING GRADE 8.5' LEFT
PROPOSED FINISH GRADE OF TYPE II ROLLED CURB & GUTTER 8.5' RIGHT OF CENTERLINE
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=10'

ALDER AVE. PROFILE

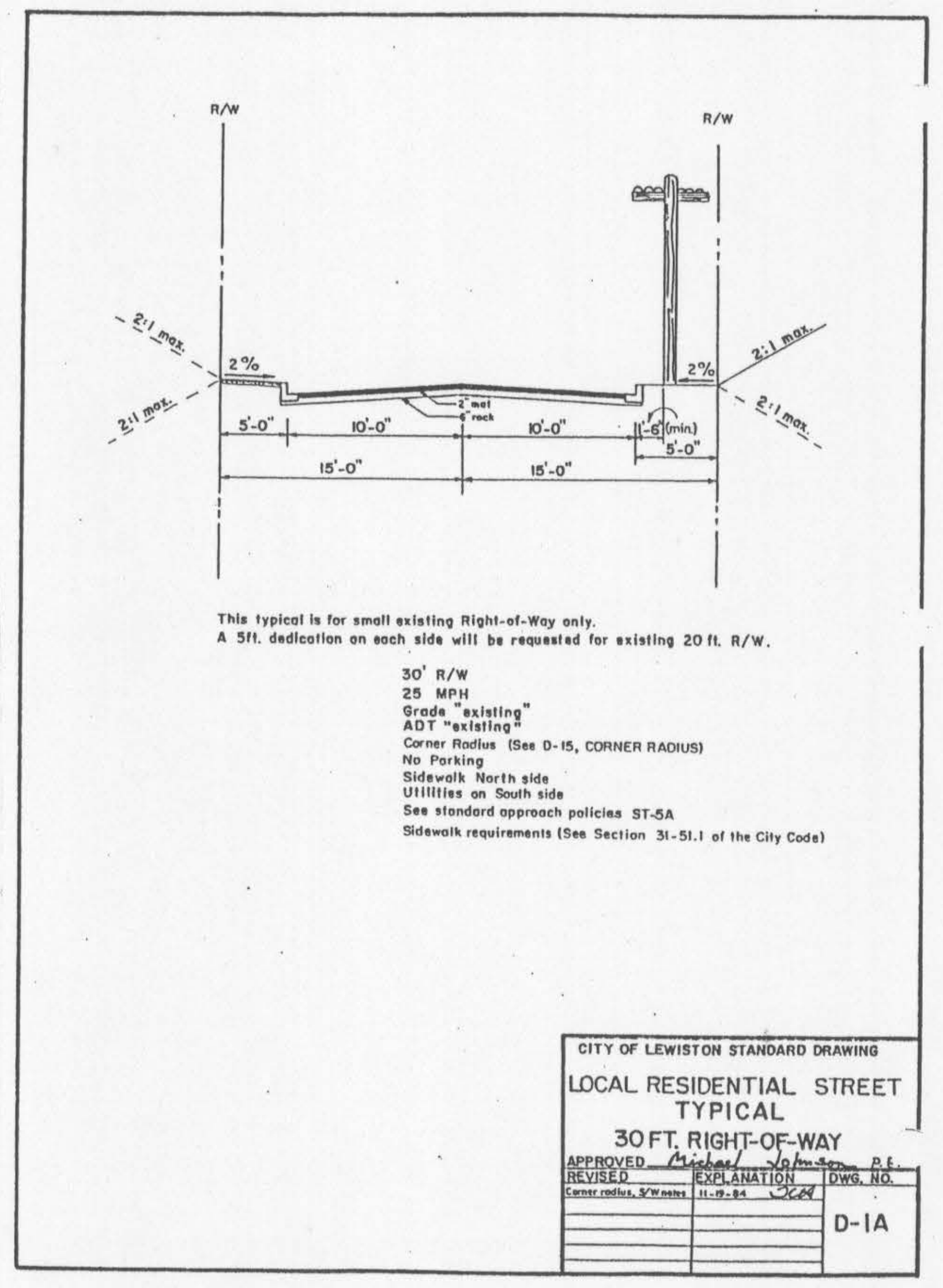
NO.	DATE	BY	FILENAME	REVISIONS
0			00104	ORIGINAL DRAWING

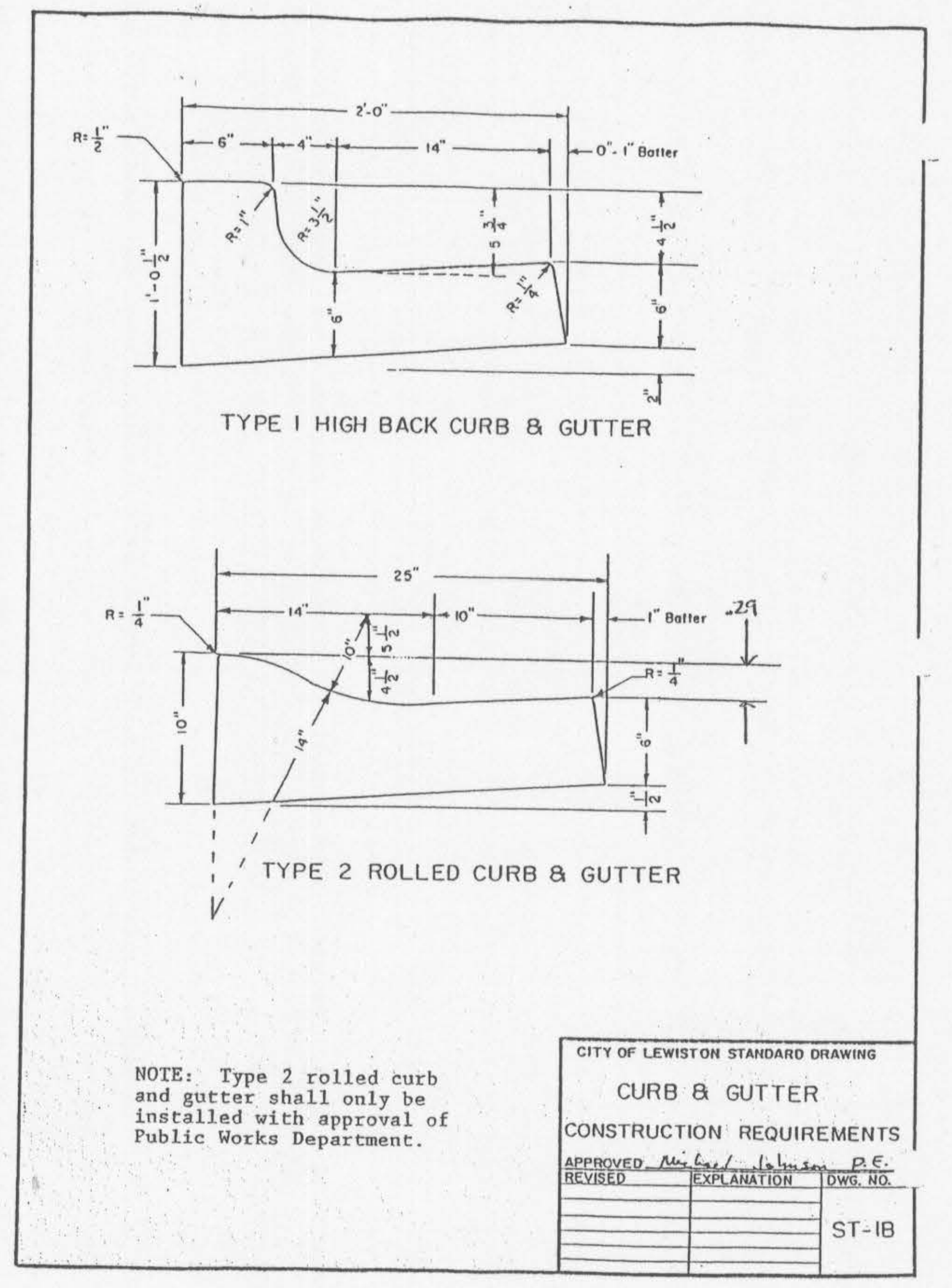
REGISTERED PROFESSIONAL ENGINEER 10962 3/6/08 STATE OF IDAHO CHARLES R. FISKE

NACLINE ENGINEERING & DRAFTING
"an affordable alternative"
4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

SUBIS ADDITION
LEWISTON, IDAHO
ALDER AVENUE
CURB & GUTTER PROFILE

DRAWN BY: CRF
CHECKED BY: CRF
DESIGNED BY: CRF
SCALE: 1" = 10'
DATE: 9/16/07
PROJECT NO.: 00104





INSPECTION - TESTING - FREQUENCY REQUIREMENTS

ITEM	MATERIAL	FREQUENCY	STANDARD	INSPECTOR/CO.	DATE	INITIAL
1. SOILS COMPACTION (All Utility Trenches)						
TRENCH SUBBASE	Native	1/200'/4" Compacted Lift		Contractors Materials Testing Sub		
PIPE BEDDING	3/4" minus Crushed Aggregate	1/200'/4" Compacted Lift	95% Per ASTM D-1557	Contractors Materials Testing Sub		
1st 1' OF FILL OVER PIPE	3/4" minus Crushed Aggregate	1/200'/12" Compacted Lift	95% Per ASTM D-1557	Contractors Materials Testing Sub		
TRENCH BACKFILL						
NEW CONST, Under Prop Road	Native, Max Agg NTE 4" MSD	1/200'/8" Compacted Lift	95% Per ASTM D-1557	Contractors Materials Testing Sub		
NEW CONST, In Easement/Non-trafficked Area	Native, Max Agg NTE 4" MSD	1/200'/8" Compacted Lift	92% Per ASTM D-1557	Contractors Materials Testing Sub		
TRENCH BACKFILL, Exist Road						
CUT PARALLEL TO CL	Native, Max Agg NTE 4" MSD	1/200'/8" Compacted Lift	95% Per ASTM D-1557	Contractors Materials Testing Sub		
CUT PERP TO CENTERLINE	3/4" minus Crushed Aggregate	1/Perp Cut	95% Per ASTM D-1557	Contractors Materials Testing Sub		
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer	As Spec'd by Engineer	Contractors Materials Testing Sub		
2. STORM DRAIN MAINS						
Gasketed PE Storm Sewer Pipe	Polyethylene, ADS N-12 or Equal			Civil Engineer will Inspect Contractors Work		
ALIGNMENT AND GRADE	N/A	Per Plan	Per Manufacturer's Instructions	Civil Engineer will Inspect Contractors Work		
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	Per Manufacturer's Instructions	Civil Engineer will Inspect Contractors Work		
PRESSURE TEST	N/A	Between Access Holes	4 PSI for 15 Minutes, 1/2 PSI Drop	Civil Engineer present durning Contractors Test		
MANHOLES	Concrete	N/A	City Std	Civil Engineer will Inspect Contractors Work		
3. WATER MAINS						
Ductile Iron or PVC Water Main	AWWA C-151, C-900, C-905 (Class as Req'd)			Civil Engineer will Inspect Contractors Work		
ALIGNMENT AND GRADE	N/A	Per Plan	AWWA C-600, AWWA C-605	Civil Engineer will Inspect Contractors Work		
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	AWWA C-600, AWWA C-605	Civil Engineer will Inspect Contractors Work		
THRUST BLOCKS	Concrete, 2500 PSI Mix	Each Joint	Per plan/Std Dwg	Civil Engineer will Inspect Contractors Work		
HYDROSTATIC PRESSURE	N/A	150% of Working Pressure @ Low Point	2 Hrs, NTE Allowable Leakage Per AWWA C 600, AWWA C-605	Civil Engineer present durning Contractors Test		
CHLORINATION/BACTERIA	N/A	2 Consecutive Passing Tests, 24 Hrs Apart	AWWA C-651	Contractor to Chlorinate, City of Lewiston to Test		
4. SEWER MAINS						
PVC Sewer main	PVC, SDR 35	N/A	ASTM 3034	Civil Engineer will Inspect Contractors Work		
ALIGNMENT AND GRADE	N/A	Per Plan	N/A	Civil Engineer will Inspect Contractors Work		
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	Per Manufacturer's Instructions	Civil Engineer will Inspect Contractors Work		
MANHOLES	Concrete	Each Joint	Hydrostatic Test	Civil Engineer will Inspect Contractors Work		
PRESSURE TEST	N/A	Between Access Holes	4 PSI for 15 Minutes, 1/2 PSI Drop	Civil Engineer present durning Contractors Test		
VIDEO INSPECTION	N/A	Between Access Holes	No Perforations, Dents or Dimples, No Bellies > 0.02'	Contractors Sub		
5. CONCRETE CURB, GUTTER & SIDEWALK						
CONCRETE	3500 PSI Concrete w/WRA and AEA	Strength, Slump, Air & Cylinders, 1 Test/50 CY or Min 1 Test Daily	AASHTO T-22, T-23, T-119, T-152, T-309, & WAQTC TM-2	Contractors Materials Testing Sub		
ALIGNMENT AND GRADE	N/A	Per 10' Section	± 0.02' from Design Grade/Alignment	City of Lewiston and Civil Engineer		
JOINTS/FLATNESS/STRAIGHTNESS	N/A	Per 10' Section	± 0.02'/10' Segment	City of Lewiston and Civil Engineer		
FINISH	N/A	All	Floated, Uniform, Light Broom Finish	City of Lewiston and Civil Engineer		
6. ASPHALTIC CONCRETE PAVING						
Hot Mix Asphalt	ITD Class II (5/8" or 1/2")/Appv'd Mix Design		ITD Spec. Sec. 405	Contractors Materials Testing Sub		
Aggregate	Per ITD Spec/Appv'd Mix Design	1/750 Ton, Min 1 Test	ITD Spec. Sec. 703	Contractors Materials Testing Sub		
Density	92% of Rice Density/Appv'd Mix Design	1/500 LF, Min 2 Tests	ASTM D-1556	Contractors Materials Testing Sub		
7. Erosion & Sediment Controls	Per Plan	1/Wk or After Every Rainfall	Per Plan and Manufacturers' Instructions	Contractor		
8. Traffic Control	Per Plan	Continuous	MUTCD/ATSSA	Contractor		
9. Record Drawings	AutoCADD Elect File, Bond Paper, 22" x 34" Min Si	Before Public Improvements Accepted	City Checklist	Contractors To Provide Redlined Drawings		

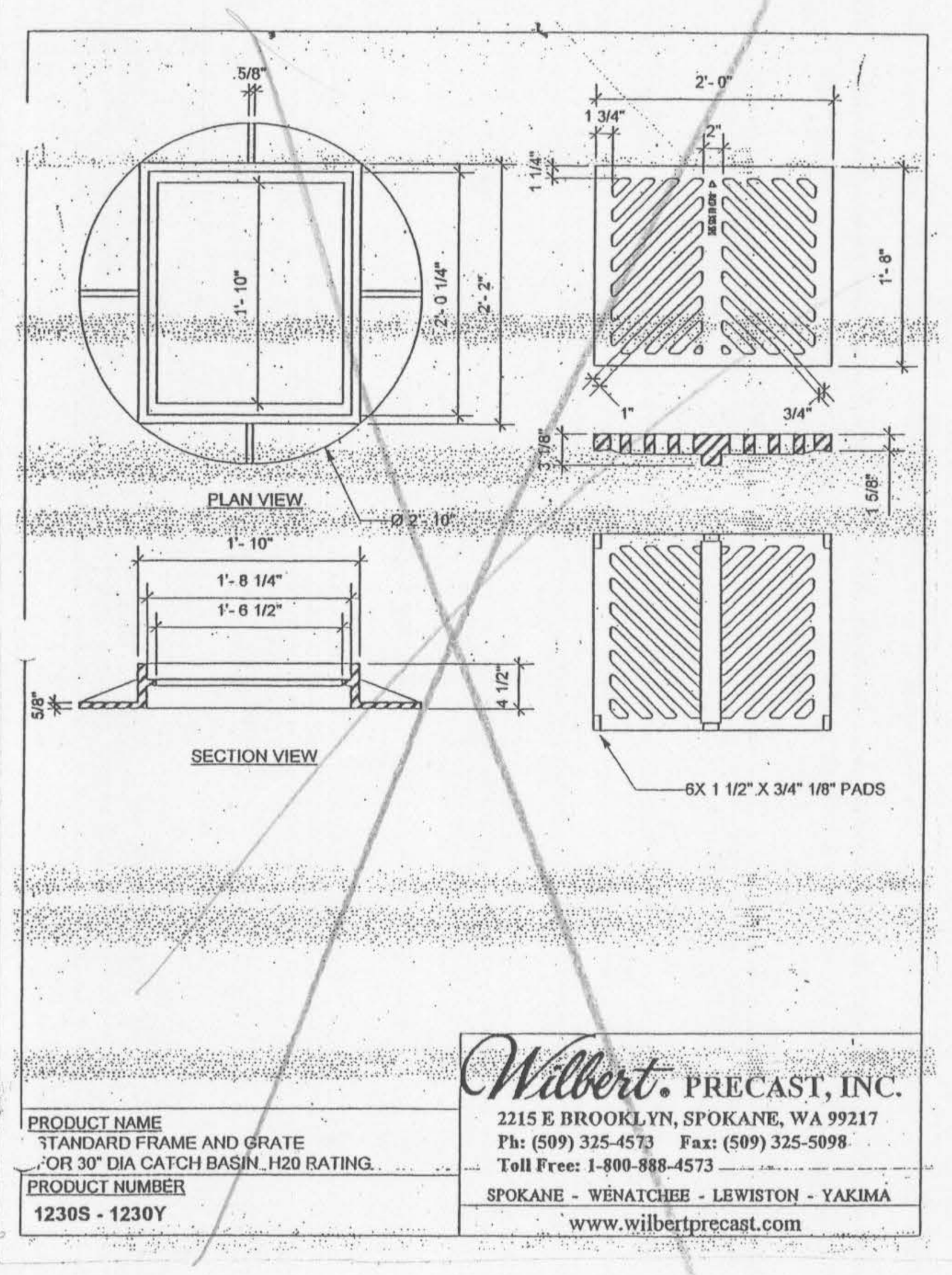
\\server6\engr\Standards\Inspection Checklist.xls

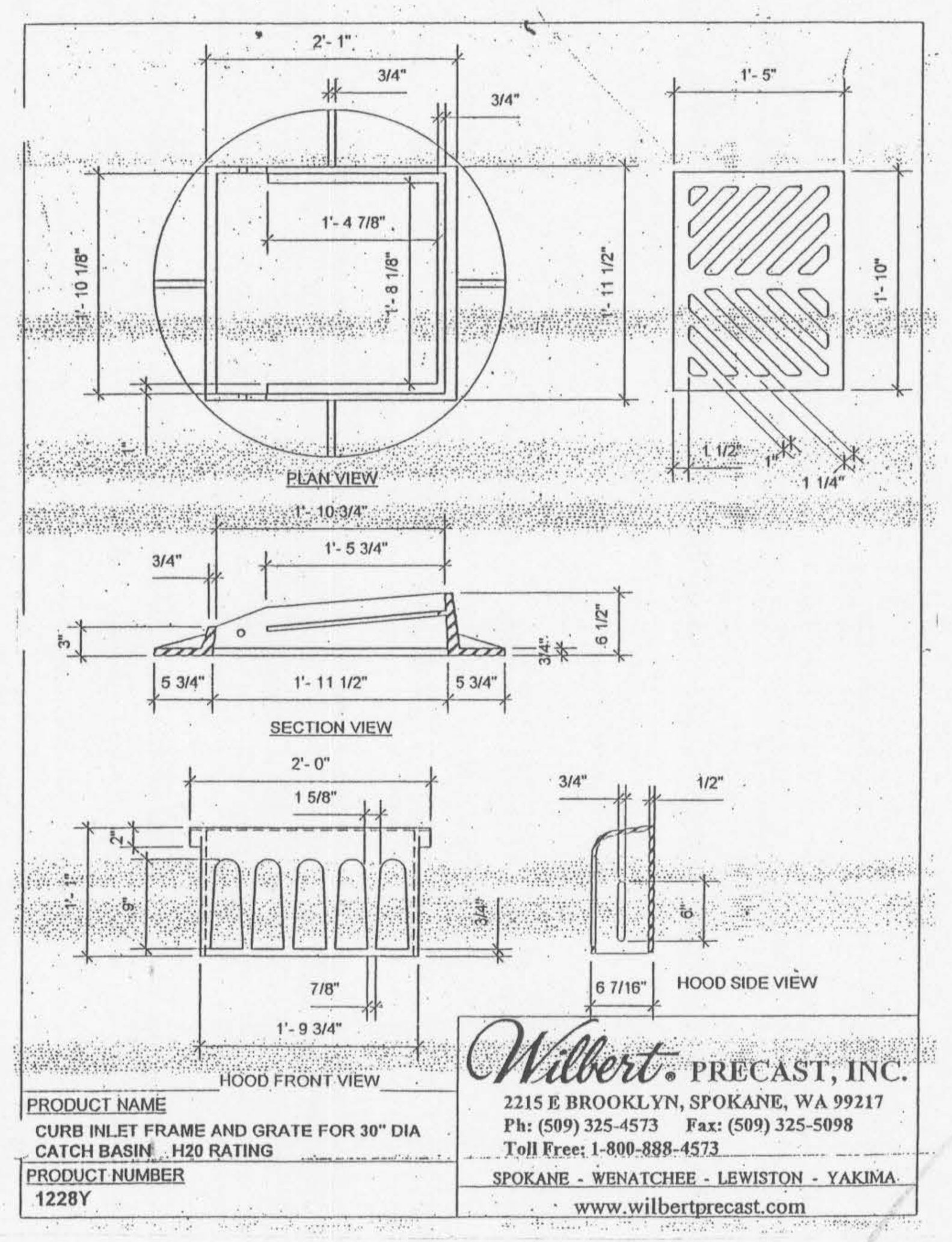
CITY OF LEWISTON 1861

DEVELOPER'S CONTACT LIST

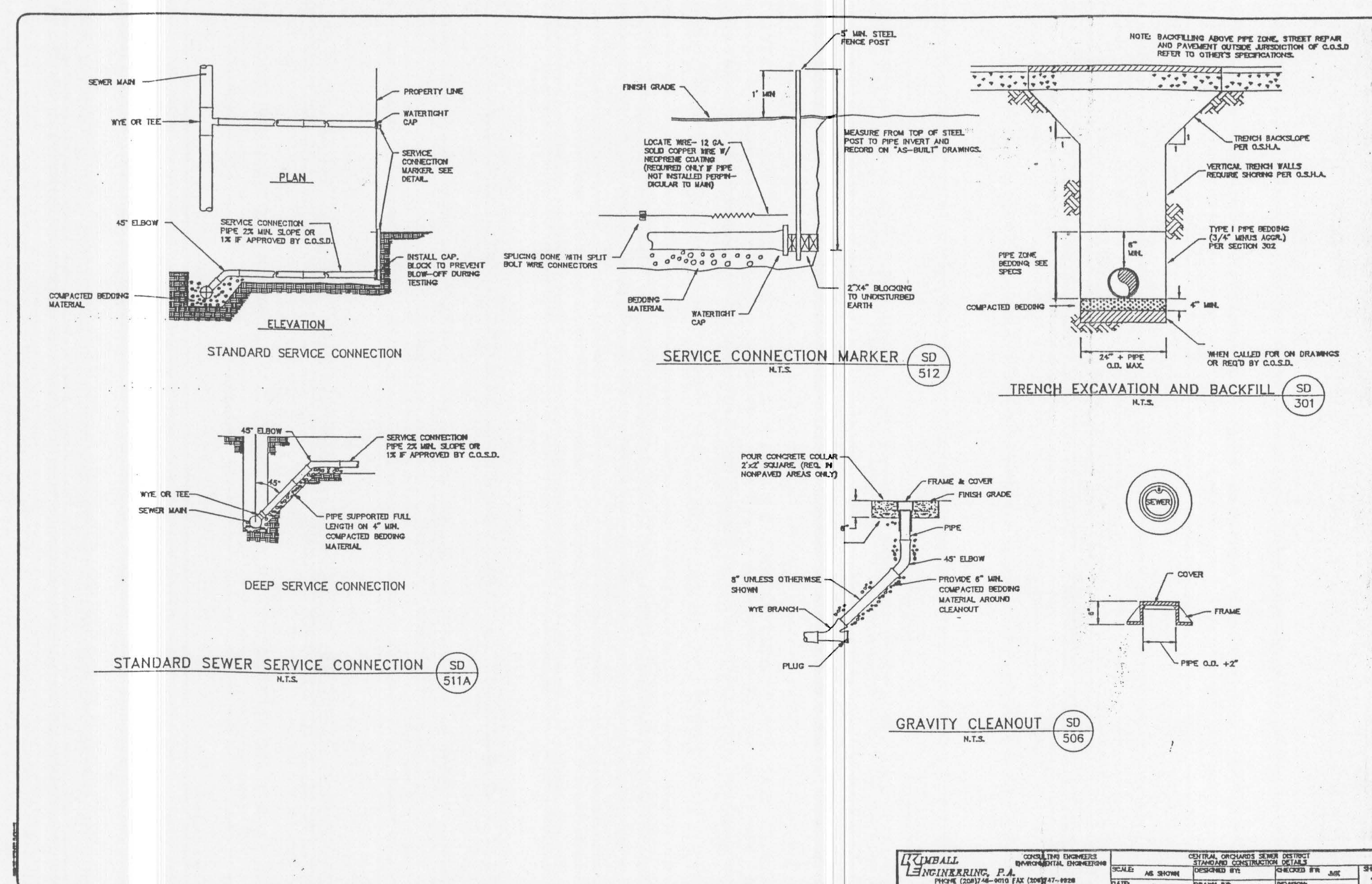
AIRPORT 406 BURRELL AVE.	ROBIN TURNER AIRPORT MANAGER	Phone # 208-746-3671 x 244 Fax # 208-798-0591
AVISTA 1330 FAIR ST. CLARKSTON	KENNY RAY CONSTRUCTION DESIGN REP	Phone # 208-798-1472 Fax # 208-798-1499
BUILDING – COMMERCIAL 215 D ST.	JERRY HUME BUILDING OFFICIAL	Phone # 208-746-1319 x 294 Fax # 208-746-5595
BUILDING – RESIDENTIAL 215 D ST.	DAN BARNETT BUILDING INSPECTOR	Phone # 208-746-1319 x 205 Fax # 208-746-5595
BUSINESS LICENSING 215 D ST	SUE GEHRKE BUSINESS LICENSING	Phone # 208-746-1319 x 256 Fax # 208-746-5595
CENTRAL ORCHARDS SEWER DISTRICT 1522 POWERS AVE.	BILL LARSON MANAGER	Phone # 208-746-9689 Fax # 208-746-9680
CITY WATER/SEWER	DAVE SIX SYSTEM MANAGER	Phone # 208-746-3671 x 262 Fax # 208-750-1924
ENGINEERING – COMMERCIAL 1134 F ST. – 2ND FLOOR	SHAWN STUBBERS ASSISTANT CITY ENGINEER	Phone # 208-746-3671 x 290 Fax # 208-746-9667
ENGINEERING – RESIDENTIAL 1134 F ST. – 2ND FLOOR	SHERRI KOLE ENGINEERING TECHNICIAN	Phone # 208-746-3671 x 259 Fax # 208-746-9667
FIRE 1245 IDAHO ST.	LINDA STEPUTAT FIRE MARSHAL	Phone # 208-743-3554 Fax # 208-746-3801
HEALTH DEPARTMENT 215 10TH ST.	STEVEN GREGOR ENVIRONMENTAL HEALTH SPECIALIST	Phone # 208-799-3100 Fax # 208-799-0349
LEWISTON ORCHARDS IRRIGATION DISTRICT 1520 POWERS AVE.	BARNEY METZ MANAGER	Phone # 208-746-8235 Fax # 208-746-6484
→ CITY SEWER INDUSTRIAL PRETREATMENT 3106 N & S HIGHWAY	AL SINNER ENVIRONMENTAL PROGRAM SUPERVISOR	Phone # 208-750-1195 Fax # 208-750-1198
QWEST 528 6TH AVE. LEWISTON	KIM BIGGS DESIGN ENGINEER	Phone # 208-798-0607 Fax # 208-746-7826
SANITATION 1134 F ST. – 2ND FLOOR	SHAWN STUBBERS ASSISTANT CITY ENGINEER	Phone # 208-746-3671 x 297 Fax # 208-746-9667
ZONING – COMMERCIAL 215 D ST.	JOHN MURRAY PLANNER	Phone # 208-746-1318 x 250 Fax # 208-746-5595
ZONING – RESIDENTIAL 215 D ST.	BRIAN RUSCHE PLANNER	Phone # 208-746-1318 x 202 Fax # 208-746-5595

Updated on 8/8/06





Add detail for #1827



STANDARD SERVICE CONNECTION
DEEP SERVICE CONNECTION
STANDARD SEWER SERVICE CONNECTION SD 511A
SERVICE CONNECTION MARKER SD 512
TRENCH EXCAVATION AND BACKFILL SD 301
GRAVITY CLEANOUT SD 506
KIMBALL ENGINEERING, P.A.
CENTRAL ORCHARDS SEWER DISTRICT STANDARD CONSTRUCTION DETAILS

REVISIONS

NO.	DATE	BY	FILENAME
0			00104

ORIGINAL DRAWING

NACLINE ENGINEERING & DRAFTING
"an affordable alternative"
4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

SUBIS ADDITION
LEWISTON, IDAHO
CITY, LOID, LOSD, & CIVIL DETAILS

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: N/A	
SCALE: N/A	
DATE: 9/16/07	
PROJECT NO.: 00104	
SHEET 7 OF 8	

ADDRESS SIGNS AND REGULATORY PLACARDS FOR FIRE ACCESS ROADS AND MULTIPLE BUILDINGS UNDER ONE ADDRESS

INTENT

To establish uniform requirements for address signs and regulatory placards in accordance with International Fire Code Section 505.

REQUIREMENTS

Identification of Fire Department access roads by address and posting of informational placards for structures greater than 150 feet from a public right-of-way is accomplished as follows:

- **Color:** White background with green letters and numerals.
- **Size:**
  - Letters or numbers shall be at least 3 inches high with 3/8-inch-wide strokes.
  - Signs or placards shall be at least 12 inches high and 20 inches wide, but no more than 20 inches high and 28 inches wide.
- **Content:**

  Signs and placards are restricted to read only the authorized information intended for their purpose; see Examples A and B. All other signs are subject to City of Lewiston Ordinance 30 and 31-86 through 31-92.
- **Visibility:**
  - Address shall be spelled out in full; see Example A.
  - Signs or placards shall be visible when approaching from either direction on a public right-of-way.
  - Bottom edge of signs or placards shall not be less than 5 feet above the road bed.
  - Top edge of signs or placards shall not be greater than 8 feet above the road bed.
  - Visibility of signs or placards shall not be blocked by vegetation or other sight obscuring obstructions.
  - Directional arrows may be required; see Examples A and B.
- **Location:**
  - Signs and placards shall be located on private property at the entrance to Fire Department access roads within 3 feet of the public right-of-way, or as directed by the Fire Department.
  - Placards may be required at 75-foot intervals.
  - Placards may be required at approved turnarounds.
  - Placards may be required at the end of Fire Department access roads when an unimproved portion of a private road continues beyond that point; see Example B.

  Additional signs or placards may be required due to various conditions peculiar to each site; see Examples A and B.

Addresses with multiple buildings shall install building numbers/letters on each building in a logical sequence. Numbers/letters shall be visible from access roads. Size of numbering/lettering and placement on the building are determined by the Lewiston Fire Department.

Owner of the property must furnish to the Fire Department a plot plan of the property noting the arrangement and numbering/lettering of buildings.

Steven M. Cooper

Steven M. Cooper, Fire Chief

FIRE APPARATUS ACCESS ROADS

INTENT

To establish requirements by the Lewiston Fire Department for fire apparatus access roads in accordance with Sections 501 and 503 of the 2000 International Fire Code as described herein.

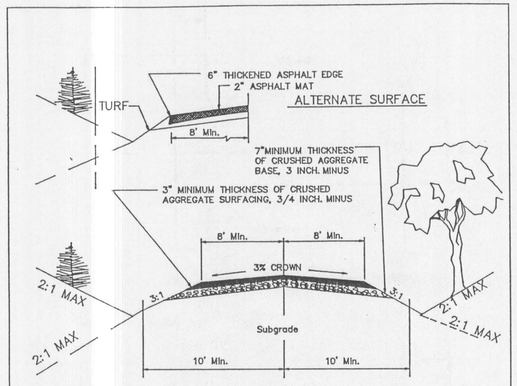
REQUIREMENTS

As specified in Section 501.4 of the 2000 IFC, Fire Department access roads shall be installed prior to and maintained during the time of construction. An exception to this would be granting a permit for construction of a noncombustible foundation.

1. All buildings that have an exterior wall located over 150 feet from the curb line of a dedicated public street shall be provided with Fire Department access roadways which shall be totally unobstructed, including the parking of motor vehicles.
2. Access road specifications shall meet the requirements listed in Section 503, paragraph 503.2, of the 2000 International Fire Code. Roads shall have a minimum width of not less than 20 feet and a vertical clearance of not less than 13 feet 6 inches. Vertical clearances or widths may be increased when in the opinion of the Fire Chief vertical clearances or widths are not adequate to provide fire apparatus access. Group U private accessory buildings may be authorized a modified access road. See Exceptions in paragraph 4.
3. The 150 feet from the required access roadway to all exterior walls of buildings shall be measured in a straight line around the exterior of the buildings. See Example 1.
   a. If topographical conditions exist that would make it impossible for hose lines to be advanced to a certain portion of a building from a required access road, an additional roadway will be required to accommodate access to that particular portion of the building.
   b. Approved Fire Department turnarounds are required when the modified access roads are greater than 150 feet from the curb line of the public street. See Examples 2 and 3.
   c. When a private driveway extends farther than the approved modified access road, then a barrier or sign shall be installed indicating the end of the fire access roadway.
4. The Fire Department access may be modified if the building is provided with an approved automatic fire sprinkler system or other approved fire protection.

   Exception: Access roadways for Group U occupancies may be modified as follows:
   a. Minimum unobstructed width shall be 16 feet with a 12-foot-wide driving surface. These widths allow for the parking of one fire engine and side passage of portable equipment and Fire Department personnel.
   b. Group U private accessory buildings of less than 1000 square feet do not require access roadways as outlined above; however, private property owners are encouraged to build such roads to aid in building safety.
5. For occupancies of an especially hazardous nature or where special hazards exist in addition to the normal hazards of the occupancy, or where fire access is unduly difficult, the Fire Chief is authorized to require additional safeguards consisting of additional firefighting appliances. See Section 901.4.3 of the IFC.
6. Required access roadways shall be kept a minimum of 26 feet in width in the immediate vicinity of any building over 36 feet in height above natural grade. At least one required access roadway shall be located within a minimum of 15 feet and a maximum of 25 feet from the building, and shall be positioned parallel to one entire side of the building.
7. Adjacent to required fire hydrants, access roadways shall be a minimum of 26 feet in width, 20 feet in either direction from the fire hydrant.
8. Access doors or opening(s) shall be required as specified in the International Building Code on the exterior wall of a building along required access roadways.
9. Required access roadways shall be required on two sides of a building when the width of the building exceeds 150 feet and the length exceeds 150 feet, or 22,500 square feet of one or more stories or levels.
10. Required access roadways shall be required along the two long dimensions of a building exceeding 100 feet in width and 440 feet in length.
11. Maximum grades for access roadways will be 11 percent. See Example 4.
12. The minimum turning radius for all fire access roads shall be 30 feet inside turning radius for hammer head types and 45 feet turning radius for circle type turnarounds. See Examples 2 and 3.
13. If access roadways are not looped, then the provided dead-end access roadways will meet the requirements as specified in Examples 2 and 3.

    Note: Curves and topographical conditions could alter the requirements for turnarounds and the width of access roadways.
14. The Fire Department access roadway surface shall be constructed to a minimum standard requirement. See Examples 4 and 5.
    a. Final approval of the finished surface on the roadway is under the authority of the City's Public Works Department, Engineering Division.
    b. Where roadways encounter bedrock, surface and drainage conditions are subject to approval by the City's Public Works Department, Engineering Division.
    c. The aggregate surface depth shown in Example 4 may be reduced if the designated fire access road is certified by a Professional Civil Engineer licensed in Idaho as being adequate to carry the weight of fire apparatus in all weather conditions. The fire access road is required to have signage to identify its location and prevent parked vehicles from impeding the required width.



Each layer of aggregate shall be compacted to 95% of the maximum density as determined by AASHTO T99-70, standard proctor test.
11% max.grade
15-20' corner radius
175' centerline radius
Swale drainage

This standard shall apply to all new accessways on private property that serve dwellings and storage buildings located further than 150 feet from approved fire department vehicle access. Approval of construction under this standard is conditioned upon the following:

1. The accessway shall be a dead-end with no street to street through traffic allowed.
2. A fire vehicle turn-around shall be provided at the end of the accessway. Turn-arounds shall be in accordance with City Standards. Alternative turn-arounds may be constructed in constrained topography with prior approval of the Public Works Director.
3. Construction of the accessway shall not create drainage low spots or direct drainage onto adjoining properties.
4. Reductions in the aggregate surface depth may be allowed if certified by a Professional Civil Engineer licensed to practice in Idaho.

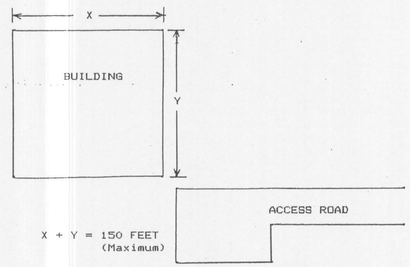
CITY OF LEWISTON STANDARD DRAWING

ALL-WEATHER AGGREGATE SURFACE FIRE APPARATUS ACCESS ROAD

APPROVED TIMOTHY C. HOMAN P.E.

REVISED	EXPLANATION	DWG. NO.
3-10-92	GRADATION \ AGAD	PA-1

SOP 202.03
EXAMPLE 1



EXAMPLE A:

4322 GRELLE AVENUE
← FIRE ACCESS ROAD
NO PARKING

4321 43RD STREET
FIRE ACCESS ROAD →
NO PARKING

EXAMPLE B:

END
FIRE ACCESS
↓ ROAD

FIRE ACCESS ROAD
NO PARKING
DO NOT BLOCK

NO.	DATE	BY	FILENAME	REVISIONS
0			00104	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER CHARLES R. FISKE STATE OF IDAHO 9360

4605 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 790-1082
(208) 791-8685

NACLINE ENGINEERING & DRAFTING "an affordable alternative"

SUBIS ADDITION
LEWISTON, IDAHO
FIRE DEPT. DETAILS
FIRE DEPT. NOTES

DRAWN BY:	CHECKED BY:
CRF	CRF
DESIGNED BY:	
N/A	