IMPROVEMENT PLANS

MCHARGUE INDUSTRIAL PARK
WATER / SEWER PLANS
NEZ PERCE COUNTY

AGENCY TELEPHONE NUMBERS

NEZ PERCE COUNTY PLANNING & BUILDING	(208) 799-3197
NEZ PERCE COUNTY BUILDING OFFICIAL CONTACT: ARLYN TIETZ	(208) 799-3035
CITY OF LEWISTON WATER & WASTEWATER DIVISION CONTACT: DAVID SIX	(208) 743-7461
AVISTA UTILITIES CONTACT: BILL SPEARS	(208) 798-1473
CENTURY LINK CONTACT: JULIO MENDEZ	(208) 798-8380
CABLE ONE CONTACT: DAN SMITH	(208) 746-3336
UNDERGROUND UTILITY LOCATE (CALL 48 HOURS BEFORE YOU DIG)	1-800-342-1585

811 Know what's **below.** **Call** before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

DEVELOPER:
MIKE MCHARGUE
911 VISTA AVENUE
LEWISTON, IDAHO 83501

CONTACT: MIKE MCHARGUE (208) 743-4278

APPLICABLE STANDARD DETAILS

1-7	BACKFILL - CLASS 'F'
1-8	IDENTIFYING TAPE DETAIL
4-1	POTABLE & NON-POTABLE WATERLINE SEPARATION
4-2	GATE VALVE BOX W/ ASSEMBLY
4-4	THRUST BLOCKING DETAIL
4-5	TYPICAL WATER METER OR UTILITY MARKER LOCATION
4-12	FIRE HYDRANT W/ SHUT-OFF VALVE
5-1	WASTEWATER PRIVATE SERVICE CONNECTION
5-2	WASTEWATER SERVICE TAP OPTIONS
5-3	WASTEWATER TYPE 1 MANHOLE
5-6	WASTEWATER CONCRETE MANHOLE COLLAR
5-7	WASTEWATER MANHOLE FRAME & COVER
5-8	WASTEWATER MANHOLE CHANNEL DETAIL

CONTRACTOR TO OBTAIN A CURRENT CITY OF LEWISTON STANDARDS BOOKLET FROM THE PUBLIC WORKS DEPARTMENT OR OBTAIN ONLINE @ www.cityoflewiston.org FOLLOWING THIS PATH - City Departments/Public Works/Engineering/Construction Standard Drawings

LEGEND

Symbol	Proposed	Symbol	Existing
		---XXX---	EXISTING CONTOUR
		(XXX)	EXISTING GRADE
		o	EXISTING PROPERTY CORNER
		(	EXISTING UNDERGROUND POWER
SS	PROPOSED SANITARY SEWER	SS	EXISTING SEWER MAIN
W	PROPOSED WATER LINE	W	EXISTING WATER MAIN
SD	PROPOSED STORM DRAIN	WL	EXISTING WATER LATERAL
	PROPOSED CENTERLINE	SD	EXISTING STORM DRAIN
	PROPOSED SEWER MANHOLE	GAS	EXISTING GAS LINE
	PROPOSED GATE VALVE	CU	EXISTING U/G COMMUNICATIONS
	PROPOSED FIRE HYDRANT		EXISTING SEWER MANHOLE
	PROPOSED FITTINGS WITH THRUST BLOCK		EXISTING CATCH BASIN
			EXISTING GATE VALVE

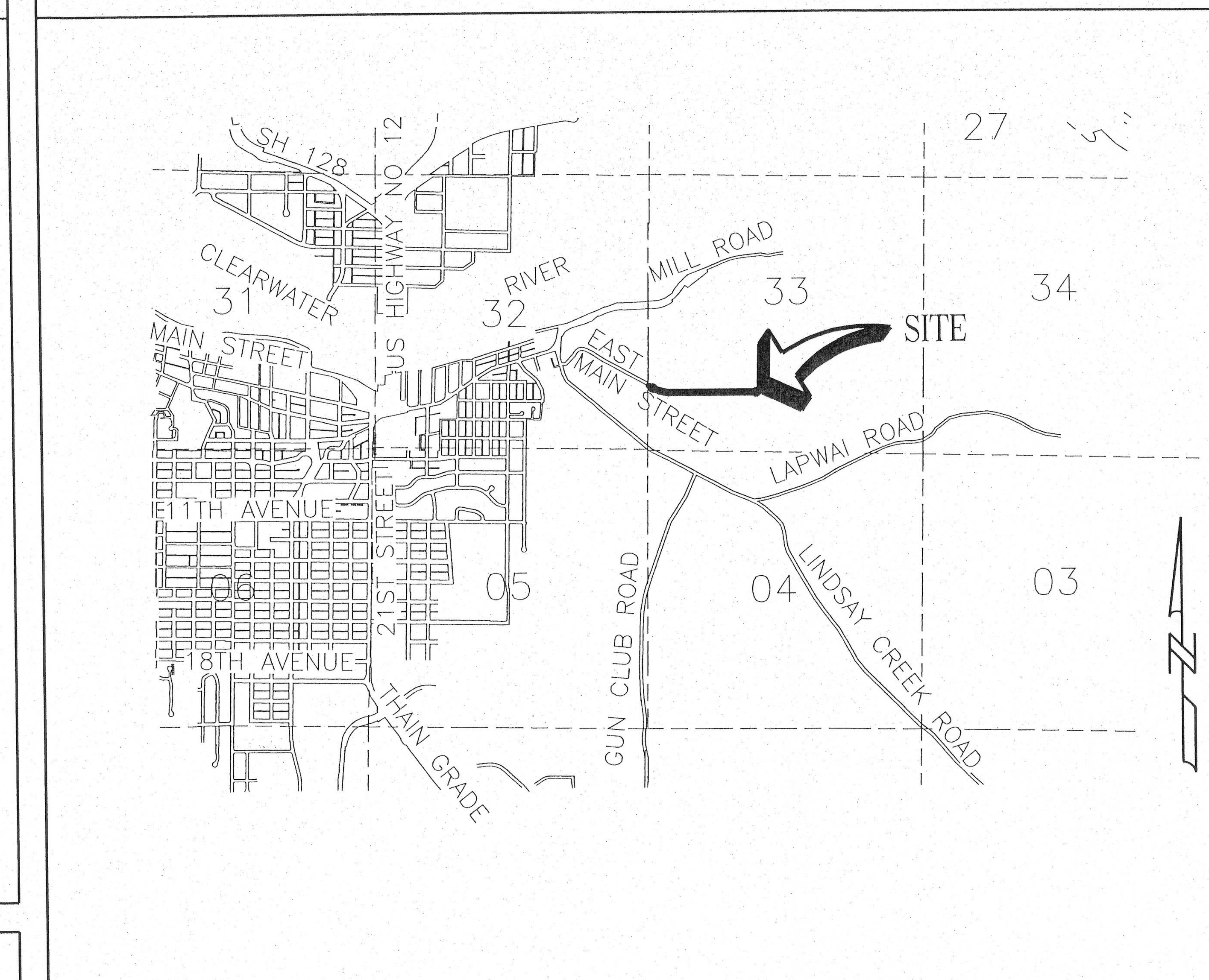
RIGHT-OF-WAY
CENTER LINE OF STREET

SPECIAL INSPECTIONS

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	DATE	INITIAL
1. ALL UTILITY TRENCHES & STRUCTURES							
TRENCH SUBGRADE	Native (6" to 8" Lifts Max.)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
PIPE BEDDING	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
1st FOOT [12"] OF FILL OVER PIPE	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
TRENCH BACKFILL UNDER EASEMENT / NON-TRAFFICKED AREA	Native Soil Free of Unsuitable Material w/ 4" Max. Particle Size (8" Max. Lift)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
2. STORM DRAIN MAINS			Certified & Visual by City		Certified & Visual by City		
GASKETED PE Storm Sewer Pipe	Polyethylene, ADS N-12 or Equal			Per Plan			
ALIGNMENT AND GRADE	N/A	Per Manufacturer's Instructions		Each Joint			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions	If required by City Engineer	Between Access Holes			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop		N/A	Certified & Visual by City		
MANHOLES	Concrete	City Standard	Public Works Policy No 2012-2				
VIDEO INSPECTION	N/A						
3. WATER MAINS			Certified & Visual by City		Certified & Visual by City		
DUCTILE IRON or PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class as Req'd)			Per Plan			
ALIGNMENT AND GRADE	N/A	AWWA C-600, AWWA C-605		Each Joint			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	AWWA C-600, AWWA C-605		Each Joint	Certified & Visual by City		
THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans/or City Std Dwg # 4-4					
HYDROSTATIC PRESSURE	N/A	2 Hrs, NTE Allowable Leakage Per AWWA C-600, AWWA C-605		150% Working Pressure OR 1½ times the Working Pressure in the Water System			
CHLORINATION/BACTERIA	N/A	AWWA C-651		Bacterial Testing: two negative testing samples 24 hours apart	City of Lewiston		
4. WASTEWATER MAINS				N/A			
PVC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034		Per Plan			
ALIGNMENT AND GRADE	N/A	N/A		Each Joint			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
MANHOLES	Concrete	Hydrostatic Test		Between Access Holes			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop					
VIDEO INSPECTION	N/A	No Perforations, Dents or Dimples, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes			
5. ASPHALTIC CONCRETE PAVING							
HOT MIX ASPHALT	ITD Class II 1/2" - Appvd Mix Design Required (2004 ITD Spec 405, 702, and 703.05)	AASHTO T 166, Method C, Specific Gravity of HMA AASHTO T 209, Test for Maximum Specific Gravity WAQTC TM-8, In-Place Density of Bituminous Mixes	92%-95% Max. Theoretical Density	1Test Per 750 Ton-Min 1 Test			
CRUSHED AGGREGATE BASE COURSE	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	1 Tests Per 500 LF-Min 2 Tests			
6. EROSION & SEDIMENT CONTROLS	Per Approved Plan	Per Plan and Manufacturers' Instructions		1/Wk or After Every Rainfall			
7. TRAFFIC CONTROL	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous			
8. RECORD DRAWINGS	AutoCAD Elect File, Bond Paper, 22" x 34" Min Size	City Checklist		Before Public Improvements Accepted			
9. ENGINEER'S CERTIFICATION							

NOTE: 1) SPECIAL INSPECTIONS TO BE COORDINATED BY CONTRACTOR AND PERFORMED BY THE COMPANIES LISTED ABOVE. 24 HOUR NOTICE TO THESE COMPANIES IS REQUIRED PRIOR TO INSPECTION.

VICINITY MAP



SITE PERMIT QUANTITIES

DOMESTIC WATER LINE	2,030 L.F.
FIRE HYDRANTS	7 EA.
MANHOLES	7 EA.
SEWER LINE	1,754 L.F.
STORM DRAIN LINE	50 L.F.

SHEET INDEX

RECEIVED APR 8 2014 CITY OF LEWISTON BUILDING SERVICES

No.	DATE	BY	DESCRIPTION
1	4-01-14	JDM	CITY OF LEWISTON PLAN REVIEW #U14-000005 - 03-20-14

#2 Resub Utility

COVER SHEET
MCHARGUE INDUSTRIAL PARK
MIKE MCHARGUE
911 VISTA AVENUE, LEWISTON, ID 83501

KELTIC ENGINEERING, INC.
315 Adams Lane ◇ Lewiston, Idaho 83501 ◇ (208) 743-2135 ◇ (208) 743-2136 fax
9425 North Nevada Street, Ste 204 ◇ Spokane, WA 99218 ◇ (509) 464-3000 ◇ (509) 464-3005 fax
Development ♧ Planning ♧ Design ♧ Construction Management

PROFESSIONAL ENGINEER REGISTERED 6064 4/8/2014 STATE OF IDAHO ERIC HASENOEHRL

DRAWN BY: JDM	CHECKED BY: EFH
DESIGNED BY: EFH	
DATE: 02/10/14	
LAST REV.: 04/01/14	
PROJECT NO. 13-0112	
SHEET NO. 1 OF 4	

U14-000005 0000 East Main St.