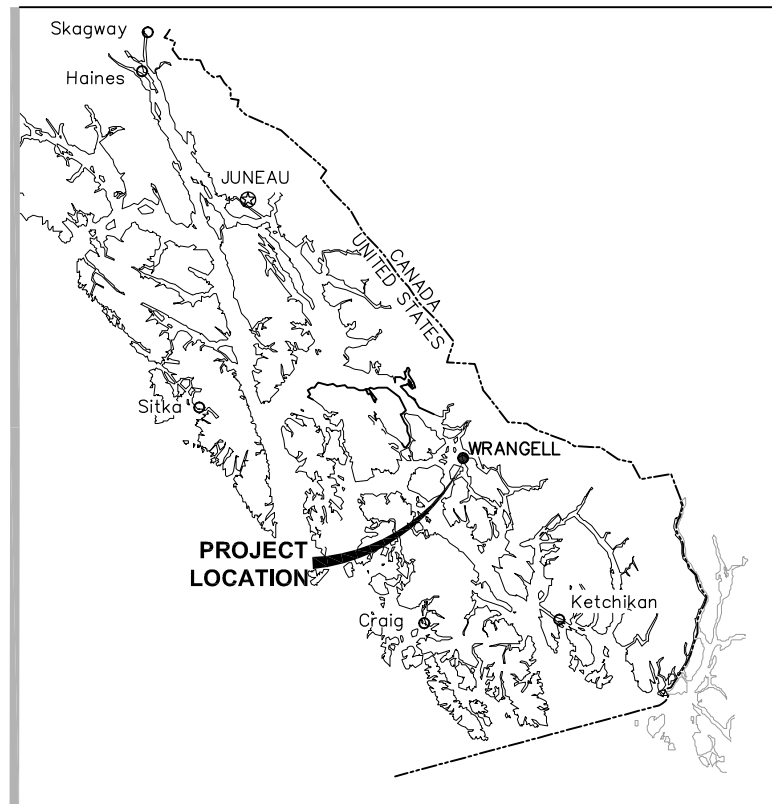
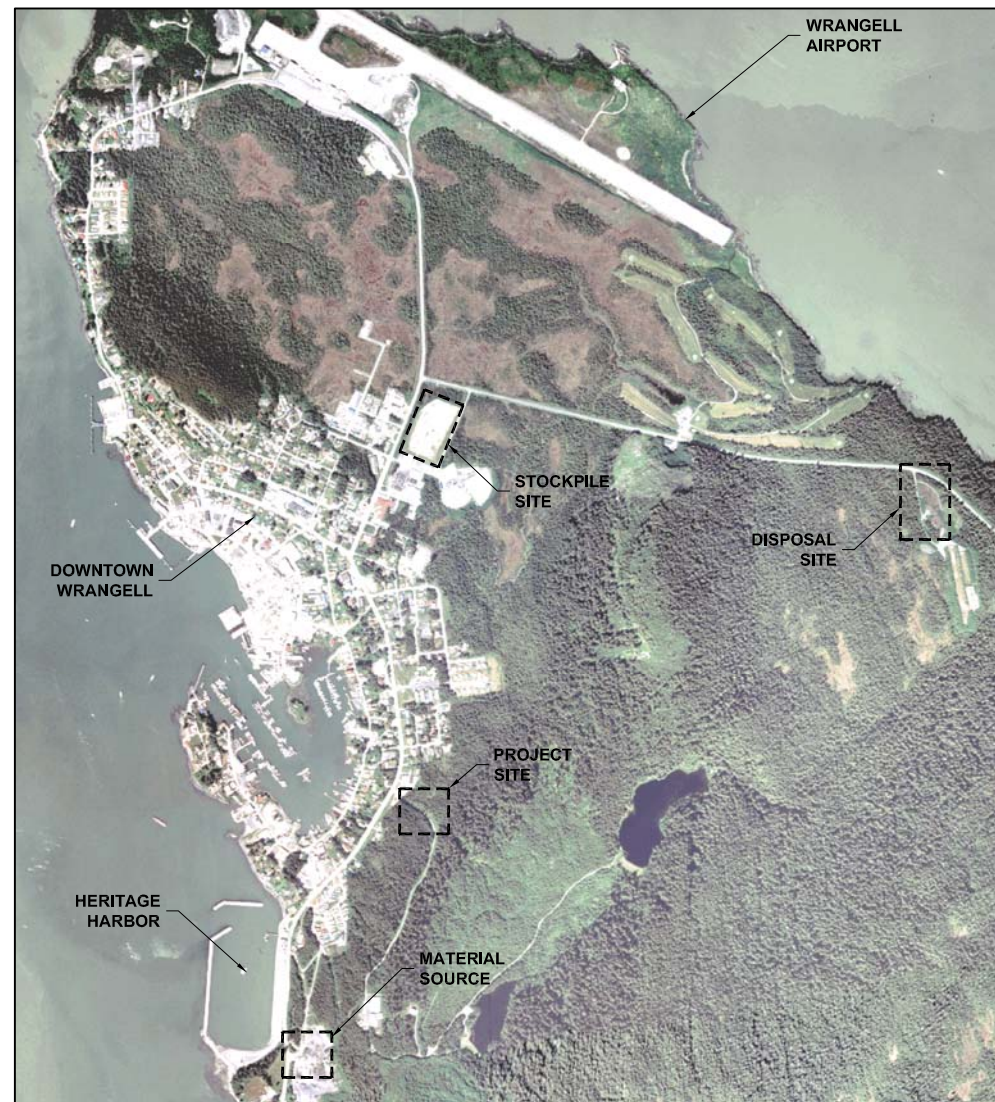


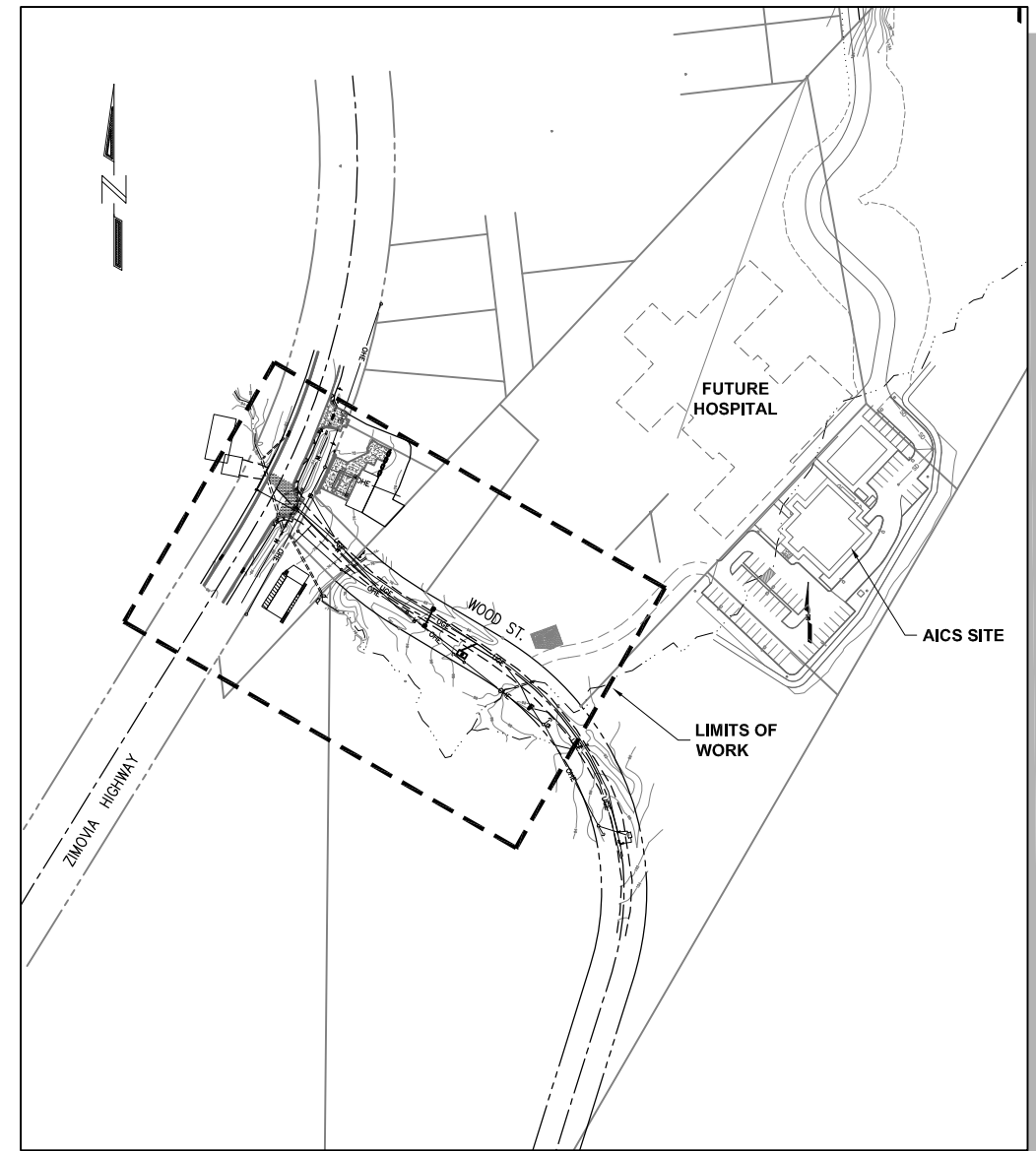
WOOD STREET IMPROVEMENT DESIGN



LOCATION MAP



VICINITY MAP



SITE PLAN

FOR BID

DIGITAL SIGNATURE:
Gary Walters
Gary Walters (Apr 5, 2016)

THIS DRAWING SET WAS CREATED AS AN ELECTRONIC DOCUMENT. IF THE ELECTRONIC DOCUMENT DOES NOT INCLUDE A VERIFIABLE DIGITAL SIGNATURE IN THE BOX ABOVE, PLEASE CONTACT THE ENGINEER OF RECORD FOR THE ORIGINAL CERTIFIED ELECTRONIC DOCUMENT.

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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TITLE SHEET	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			T1.01

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-T1.01.dwg

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-G2.01.dwg



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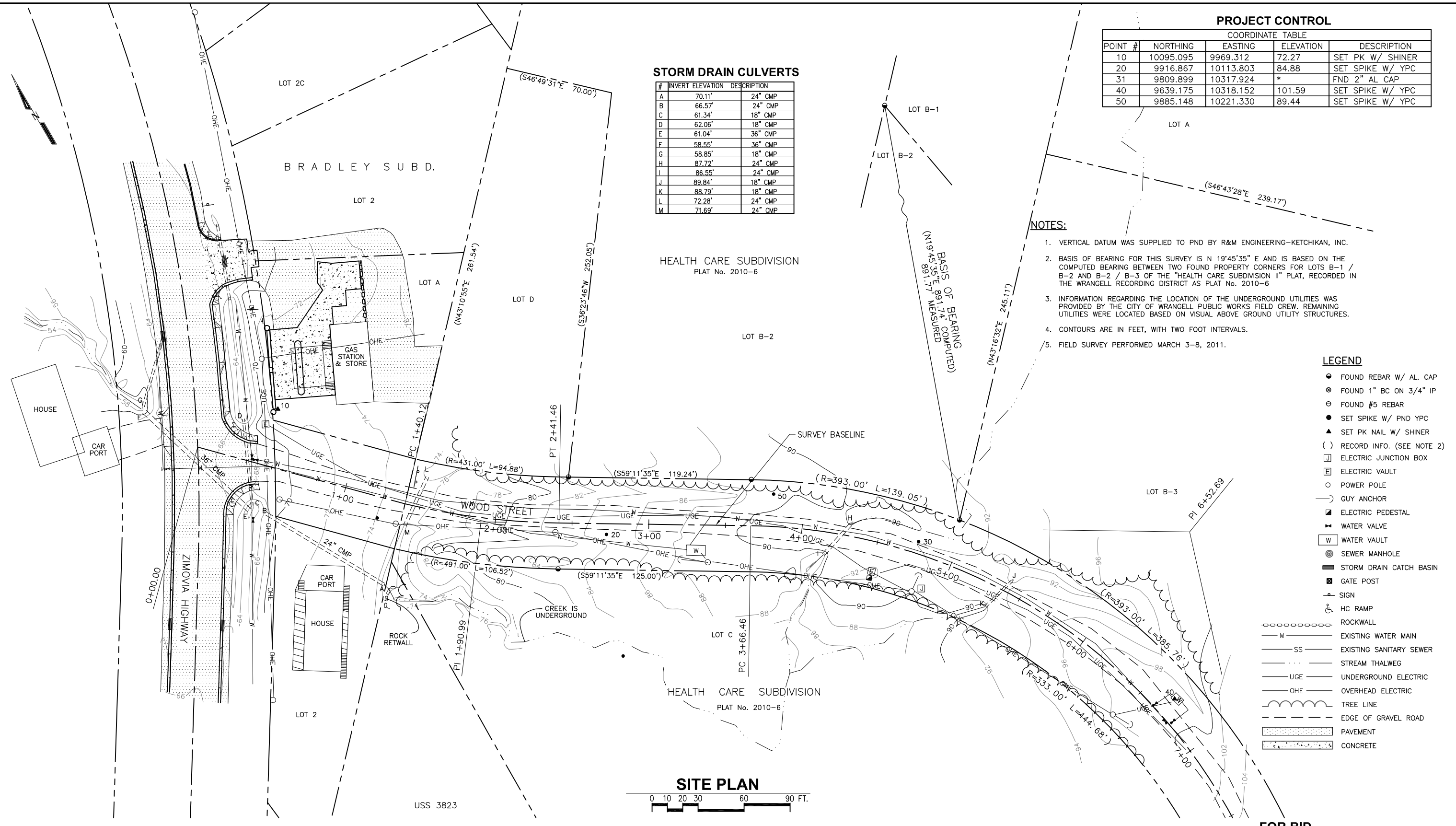


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REV	DATE	DESCRIPTION

PROJECT:	WOOD STREET IMPROVEMENTS		
TITLE:	SITE SURVEY		
DESIGNED BY:	MT	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	SR	SCALE:	NOTED
SHEET NO:	G2.01		



STORM DRAIN CULVERTS

#	INVERT ELEVATION	DESCRIPTION
A	70.11'	24" CMP
B	66.57'	24" CMP
C	61.34'	18" CMP
D	62.06'	18" CMP
E	61.04'	36" CMP
F	58.55'	36" CMP
G	58.85'	18" CMP
H	87.72'	24" CMP
I	86.55'	24" CMP
J	89.84'	18" CMP
K	88.79'	18" CMP
L	72.28'	24" CMP
M	71.69'	24" CMP

PROJECT CONTROL

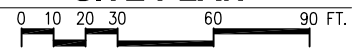
COORDINATE TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	10095.095	9969.312	72.27	SET PK W/ SHINER
20	9916.867	10113.803	84.88	SET SPIKE W/ YPC
31	9809.899	10317.924	*	FND 2" AL CAP
40	9639.175	10318.152	101.59	SET SPIKE W/ YPC
50	9885.148	10221.330	89.44	SET SPIKE W/ YPC

- NOTES:**
- VERTICAL DATUM WAS SUPPLIED TO PND BY R&M ENGINEERING-KETCHIKAN, INC.
 - BASIS OF BEARING FOR THIS SURVEY IS N 19°45'35" E AND IS BASED ON THE COMPUTED BEARING BETWEEN TWO FOUND PROPERTY CORNERS FOR LOTS B-1 / B-2 AND B-2 / B-3 OF THE "HEALTH CARE SUBDIVISION II" PLAT, RECORDED IN THE WRANGELL RECORDING DISTRICT AS PLAT No. 2010-6
 - INFORMATION REGARDING THE LOCATION OF THE UNDERGROUND UTILITIES WAS PROVIDED BY THE CITY OF WRANGELL PUBLIC WORKS FIELD CREW. REMAINING UTILITIES WERE LOCATED BASED ON VISUAL ABOVE GROUND UTILITY STRUCTURES.
 - CONTOURS ARE IN FEET, WITH TWO FOOT INTERVALS.
 - FIELD SURVEY PERFORMED MARCH 3-8, 2011.

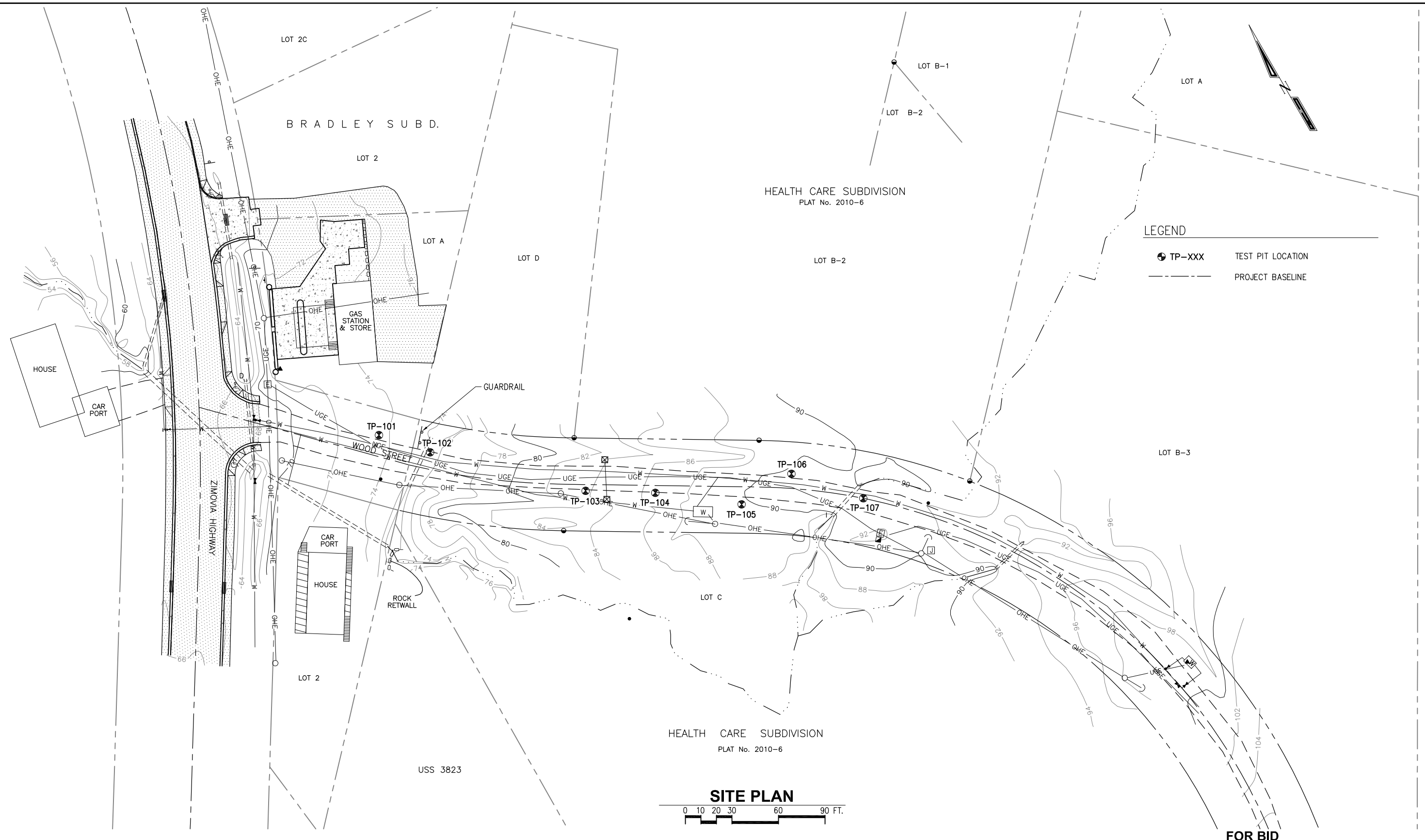
- LEGEND**
- FOUND REBAR W/ AL. CAP
 - ⊗ FOUND 1" BC ON 3/4" IP
 - ⊙ FOUND #5 REBAR
 - SET SPIKE W/ PND YPC
 - ▲ SET PK NAIL W/ SHINER
 - () RECORD INFO. (SEE NOTE 2)
 - ⊠ ELECTRIC JUNCTION BOX
 - ⊞ ELECTRIC VAULT
 - POWER POLE
 - GUY ANCHOR
 - ⊞ ELECTRIC PEDESTAL
 - ⊞ WATER VALVE
 - ⊞ WATER VAULT
 - ⊞ SEWER MANHOLE
 - ⊞ STORM DRAIN CATCH BASIN
 - ⊞ GATE POST
 - ⊞ SIGN
 - ⊞ HC RAMP
 - ⊞ ROCKWALL
 - W — EXISTING WATER MAIN
 - SS — EXISTING SANITARY SEWER
 - — STREAM THALWEG
 - UGE — UNDERGROUND ELECTRIC
 - OHE — OVERHEAD ELECTRIC
 - — TREE LINE
 - — EDGE OF GRAVEL ROAD
 - — PAVEMENT
 - — CONCRETE

SITE PLAN

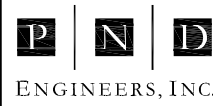


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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TEST PIT LOCATION PLAN	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			G3.01

SOILS CLASSIFICATION, CONSISTENCY AND SYMBOLS

CLASSIFICATION

Identification and classification of the soil is accomplished in general accordance with the ASTM version of the Unified Soil Classification System (USCS) as presented in ASTM Standard D 2487. The standard is a qualitative method of classifying soil into the following major divisions (1) coarse grained (2) fine-grained, and (3) highly organic soils. Classification is performed on the soils passing the 75 mm (3 inch) sieve and if possible the amount of oversize material (> 75 mm particles) is noted on the soil logs. This is not always possible for drilled test holes because the oversize particles are typically too large to be captured in the sampling equipment. Oversize materials greater than 300 mm (12 inches) are termed boulders, while materials between 75 mm and 300 mm are termed cobbles. Coarse grained soils are those having 50% or more of the non-oversize soil retained on the No. 200 sieve; if a greater percentage of the coarse grains is retained on the No. 4 sieve the coarse grained soil is classified as gravel, otherwise it is classified as sand. Fine grained soils are those having more than 50% of the non-oversize material passing the No. 200 sieve; these may be classified as silt or clay depending their Atterberg liquid and plastic limits or observations of field consistency. Refer to ASTM D 2487-93 for a complete discussion of the classification method.

SOIL CONSISTENCY – CRITERIA

Soil consistency as defined below and determined by normal field and laboratory methods applies only to non-frozen material. For these materials, the influence of such factors as soil structure, i.e. fissure systems, shrinkage cracks, slickensides, etc., must be taken into consideration in making any correlation with the consistency values listed below. In permafrost zones, the consistency and strength of frozen soils may vary significantly and unexplainably with ice content, thermal regime and soil type.

Relative Density of Sands According to results of Standard Penetration Test		Consistency of Clay in Terms of Unconfined Compressive Strength (tsf)	
N*(Blows/ft)	Relative Density		
Loose 0 – 10	0 – 40%	Very Soft	0.0 – 0.25
Dense 10 – 30	40 – 70%	Soft	0.25 – 0.5
Medium Dense 30 – 60	70 – 90%	Stiff	0.5 – 1.0
Very Dense > 60	90 – 100%	Firm	1.0 – 2.0
		Very Firm	2.0 – 4.0
		Hard	> 4.0

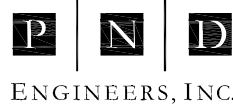
* Standard Penetration, "N": Blows per foot of a 140-pound hammer falling 30 inches on a 1.4" ID split-spoon sampler except where noted.

SAMPLER TYPE SYMBOLS

St 1.4" Split Spoon W/ 47# Hammer	Ts Shelby Tube
Ss 1.4" Split Spoon W/ 140# Hammer	Tm Modified 2.5" O.D. Shelby Tube
Sl 2.5" Split Spoon W/ 140# Hammer	Pb Pitcher Barrel
Sm 2.5" Split Spoon W/ 300# Hammer	Cs Core Barrel W/ Single Tube
Sh 2.5" Split Spoon W/ 340# Hammer	Cd Core Barrel W/ Double Tube
Sp 2.5" Split Spoon, Pushed	Bs Bulk Sample
Hs 1.4" Split Spoon Driven W/ Air Hammer	A Auger Sample
Hl 2.5" Split Spoon Driven W/ Air Hammer	G Grab Sample
Sx 2.0" Split Spoon Driven W/ 140# Hammer	
Sz 1.4" Split Spoon Driven W/ 340# Hammer	

NOTES

1. Split spoon sampler sizes presented above refer to the inside diameter of the sampler.



Designed: MH
Drawn: ALR
Checked: MH
Project No.: -
Date: DEC. 2003

STANDARD BOREHOLE LOG DETAILS

BOREHOLE LOGS FIGURE B-01

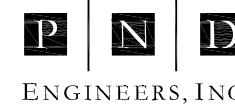
Depth (feet)	Water Table	GRAPHIC SYMBOL	SOIL DESCRIPTION Soil Name, Color, Moisture Content, Relative Density, Soil Structure, Mineralogy, Other Information	SAMPLES		Penetration Blows per 6/Inch (per Foot)*	GRAPH ■ BLOW COUNT (BPF)* 20 40 60 80 ● POCKET PEN. (TSF) ● ▲ VANE SHEAR (TSF) ▲	COMMENTS Casing Depth, Drilling Rate, Fluid Loss, Drill Pressure, Tests, Instrumentation Additional Information	Elevation (feet)
				Number	Type				
0			0' - 0.30' A.C. PAVEMENT						24.43
2			POORLY-GRADED GRAVEL W/ SILT AND SAND Gray, Dry, Subangular, Medium Dense, GP-GM	1	Ss	30	6-6-5-4 (9)	Begin drilling 10/24/03 8:00 a.m. 2' to 3' - Hard, loud drilling 1-ft min. boulder encountered	22.43

COLUMN DESCRIPTIONS

- 1 Depth Depth (in feet) below the ground surface.
- 2 Water Level Groundwater level recorded while drilling. Depths and times are recorded in comments column.
- 3 Graphic Log Graphic depiction of materials encountered.
- 4 Soil Description Description of materials encountered, including USCS soil descriptions.
- 5 Sample Number Sample identification number.
- 6 Sample Type Type of soil sample collected at depth interval depicted; symbols explained on Fig. B-01.
- 7 Sample Location Location soil sample taken.
- 8 Sample Recovery Percentage of sample recovered.
- 9 Sample Blows Number of blows to advance driven sampler each 6-inch interval using sampler type specified with a 30-inch drop. Blows per foot given in parentheses.
- 10 Graphs Graphic log depicting blow counts per foot with a specified split spoon, Pocket Penetration and Vane Shear tests depicted where taken on fine grained soils.
- 11 Comments Comments or observations on drilling/sampling by driller or PND field personnel.
- 12 Elevation Elevation (in feet) with respect to Mean Lower Low Water (MLLW) or other datum where specified.

GENERAL NOTES

- Soil Classifications are base on the Unified Soil Classification System. Field descriptions may have been modified to reflect laboratory test results.
- Descriptions on these boring logs apply only at the specific locations at the time the borings were drilled. They are not warranted to be representative of subsurface conditions at other locations or times.
- Split spoon blow counts shown are uncorrected raw data. Various hammer sizes and split spoon sizes were used and have not been corrected to a Standard Penetration Test (SPT). Blow counts may vary substantially between SPT and these methods.



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Drawn: ALR
Checked: MH
Project No.: -
Date: DEC. 2003

STANDARD BOREHOLE LOG DETAILS

BOREHOLE LOGS FIGURE B-02

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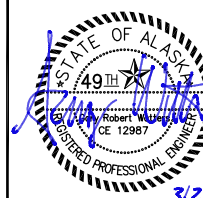
WOOD STREET IMPROVEMENTS

TEST PIT LOGS

DESIGNED BY:	SR	PROJECT NO:	114018.01	SHEET NO:	
DRAWN BY:	DRH	DATE:	MARCH 2016		
CHECKED BY:	GW	SCALE:	NOTED		

G3.02

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Depth (feet)	Water Table	Graphic Symbol	SOIL DESCRIPTION Soil Name, Color, Moisture Content, Relative Density, Soil Structure, Mineralogy, Other Information	SAMPLES			GRAPH BLOW COUNT POCKET PEN (tsf) VANE SHEAR (tsf)	COMMENTS Casing Depth, Drilling Rate, Fluid Loss, Drill Pressure, Tests, Instrumentation, Additional Information	Elevation (feet)
				Number	Type	Location			
0.0			SILTY GRAVEL (GM) With some cobbles and boulders<2.5'. Gray, moist, dense. 20% silt, 10% cobbles and boulders, 70% gravel.	1	G		Date: 3/23/2011	73.5	
2.5								BOULDERS Boulders<6', angular, gray to black with white, inclusions, dry.	
5.0								68.5	
7.5								66.0	
10.0								63.5	
12.5								61.0	
15.0								58.5	
17.5								56.0	
20.0								53.5	
Water table not encountered									
				Logged By: SR	WOOD STREET IMPROVEMENTS Wood Street Wrangell, Alaska				
				Data Entry: SR					
				Checked: MH	TEST PIT TP-101 FIGURE B-08				
				Project No.: 114018					
				Date: 03/23/2011					

Depth (feet)	Water Table	Graphic Symbol	SOIL DESCRIPTION Soil Name, Color, Moisture Content, Relative Density, Soil Structure, Mineralogy, Other Information	SAMPLES			GRAPH BLOW COUNT POCKET PEN (tsf) VANE SHEAR (tsf)	COMMENTS Casing Depth, Drilling Rate, Fluid Loss, Drill Pressure, Tests, Instrumentation, Additional Information	Elevation (feet)
				Number	Type	Location			
0.0			SILTY GRAVEL (GM) with boulders. Gray, Moist, dense. 20% silt, 60% gravel, 20% boulders.	1	G		Date: 3/23/2011	75.0	
2.5								BOULDERS Boulders<6', angular, gray to black with white, inclusions, dry.	
5.0								70.0	
7.5								67.5	
10.0								65.0	
12.5								62.5	
15.0								60.0	
17.5								57.5	
20.0								55.0	
Water table not encountered									
				Logged By: SR	WOOD STREET IMPROVEMENTS Wood Street Wrangell, Alaska				
				Data Entry: SR					
				Checked: MH	TEST PIT TP-102 FIGURE B-09				
				Project No.: 114018					
				Date: 03/23/2011					

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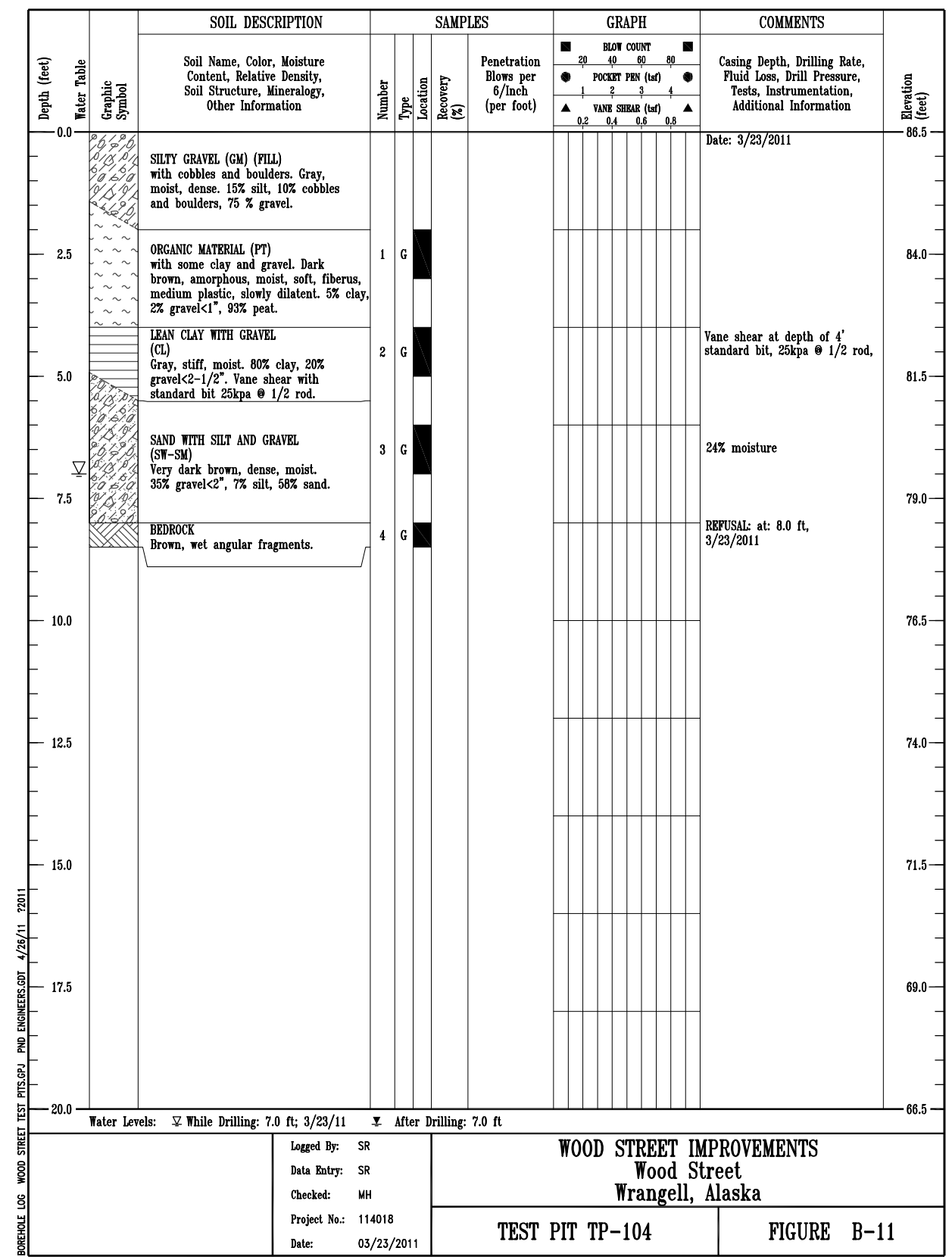
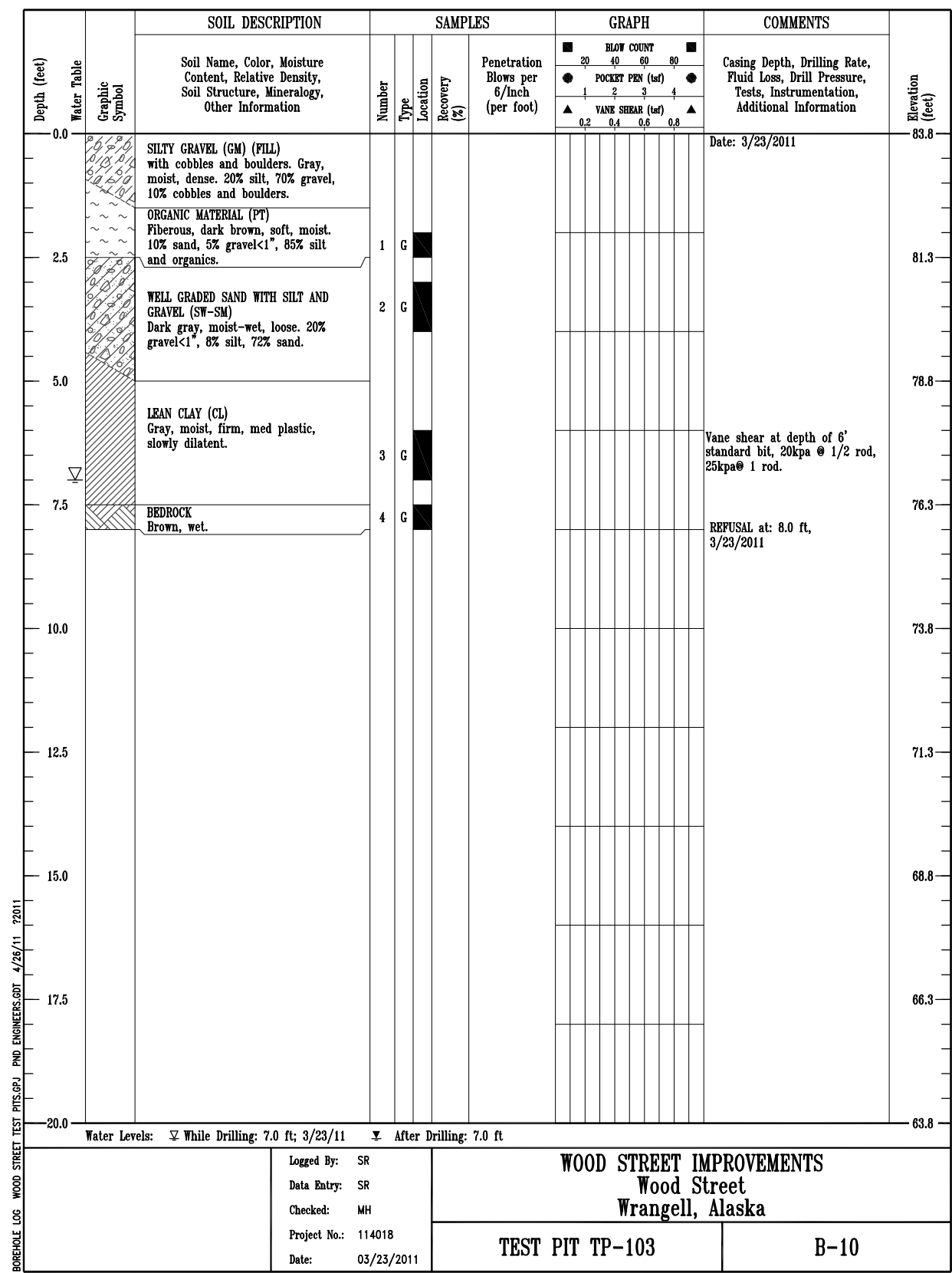
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TEST PIT LOGS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
			SHEET NO: G3.03

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-G3.04.dwg



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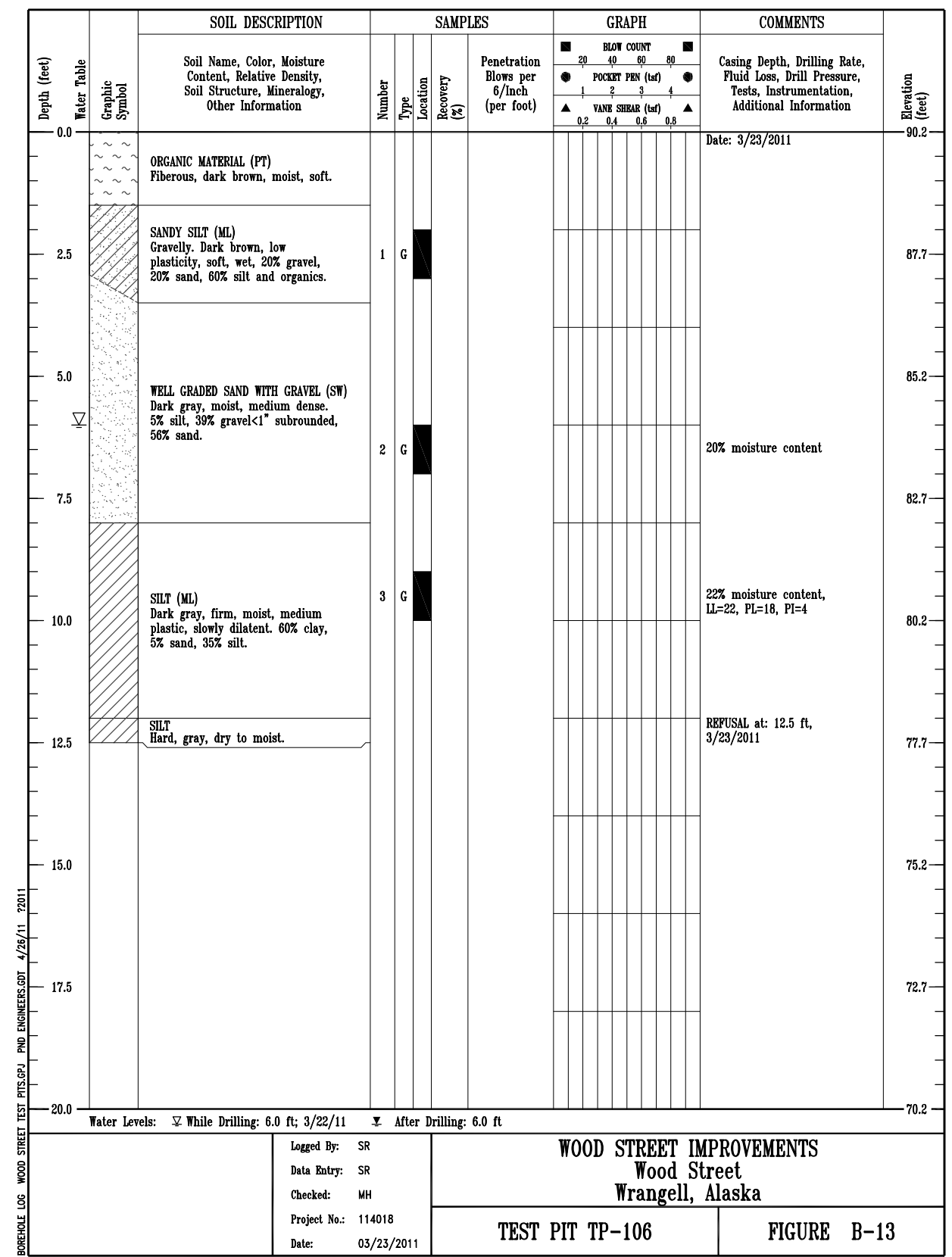
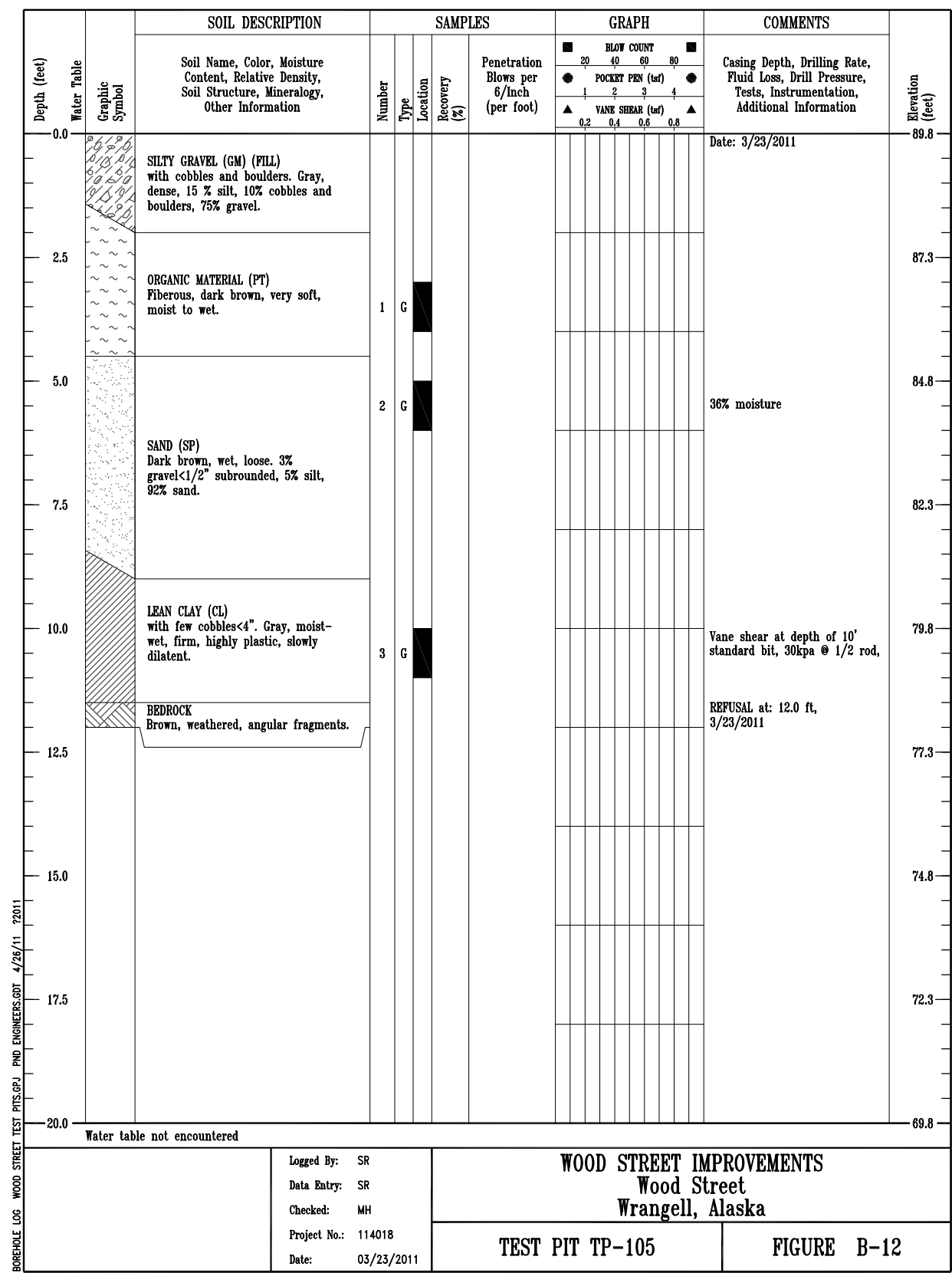
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REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TEST PIT LOGS	
DESIGNED BY: SR	PROJECT NO: 114018.01	SHEET NO:	
DRAWN BY: DRH	DATE: MARCH 2016	G3.04	
CHECKED BY: GW	SCALE: NOTED		

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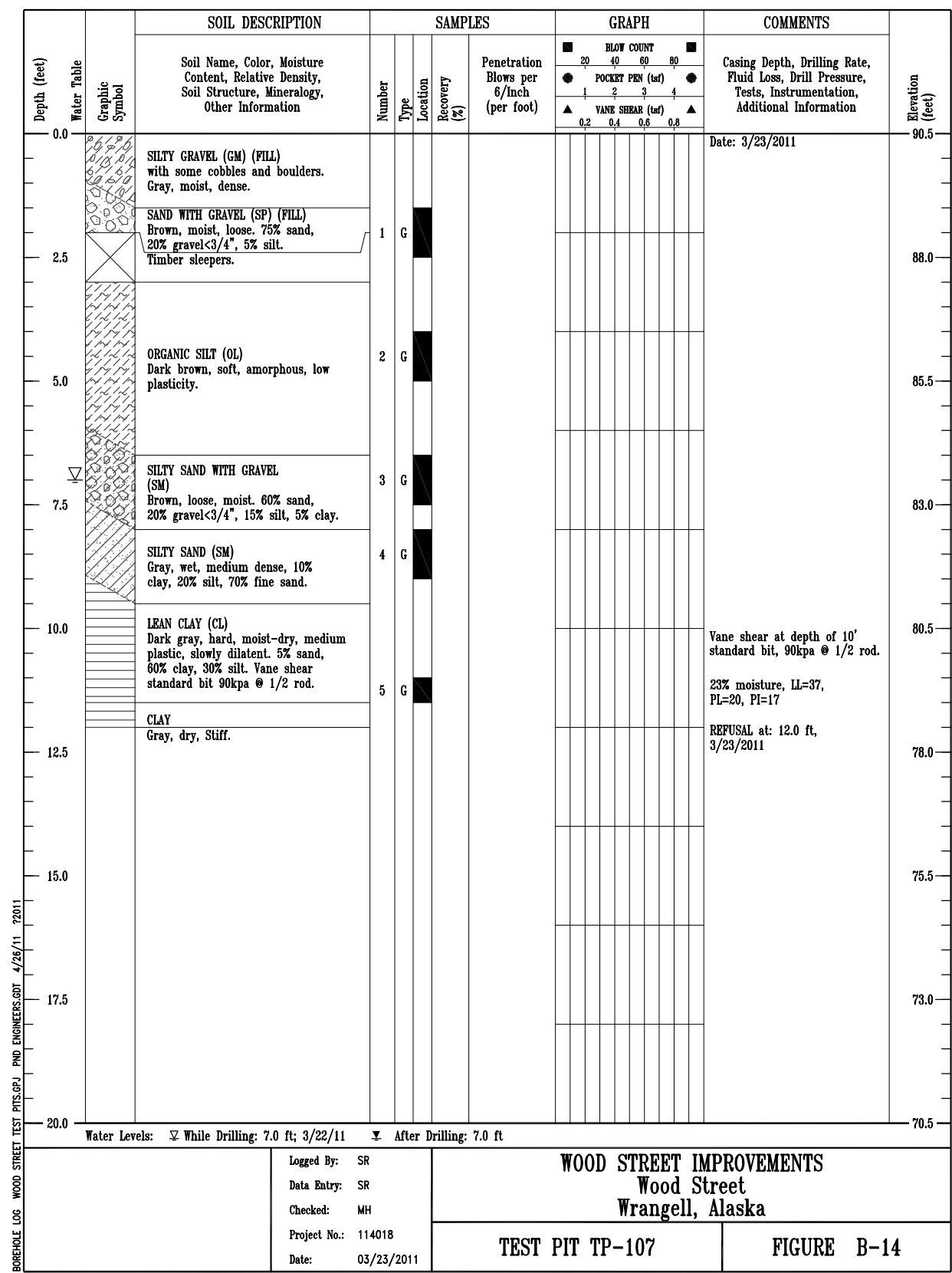
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REVISIONS		
REV	DATE	DESCRIPTION

WOOD STREET IMPROVEMENTS	
TEST PIT LOGS	
DESIGNED BY: SR	PROJECT NO.: 114018.01
DRAWN BY: DRH	DATE: MARCH 2016
CHECKED BY: GW	SCALE: NOTED
SHEET NO: G3.05	

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-G3.06.dwg



WOOD STREET IMPROVEMENTS
Wood Street
Wrangell, Alaska

TEST PIT TP-107 **FIGURE B-14**

Logged By: SR
 Data Entry: SR
 Checked: MH
 Project No.: 114018
 Date: 03/23/2011

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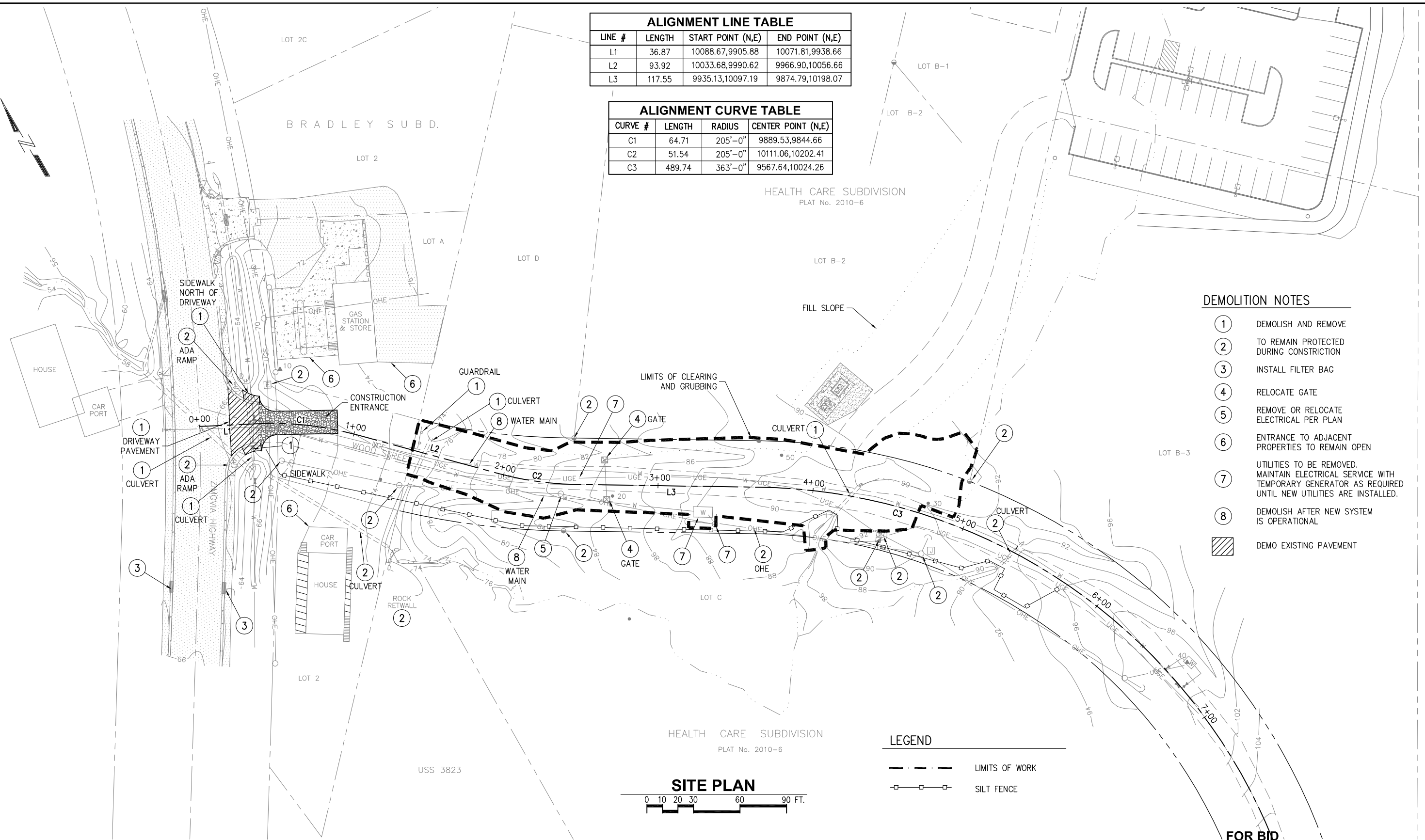
REVISIONS		
REV	DATE	DESCRIPTION

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WOOD STREET IMPROVEMENTS			
TEST PIT LOGS			
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			G3.06

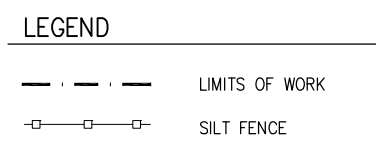
3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C1.01.dwg

ALIGNMENT LINE TABLE			
LINE #	LENGTH	START POINT (N,E)	END POINT (N,E)
L1	36.87	10088.67,9905.88	10071.81,9938.66
L2	93.92	10033.68,9990.62	9966.90,10056.66
L3	117.55	9935.13,10097.19	9874.79,10198.07

ALIGNMENT CURVE TABLE			
CURVE #	LENGTH	RADIUS	CENTER POINT (N,E)
C1	64.71	205'-0"	9889.53,9844.66
C2	51.54	205'-0"	10111.06,10202.41
C3	489.74	363'-0"	9567.64,10024.26



- DEMOLITION NOTES**
- ① DEMOLISH AND REMOVE
 - ② TO REMAIN PROTECTED DURING CONSTRUCTION
 - ③ INSTALL FILTER BAG
 - ④ RELOCATE GATE
 - ⑤ REMOVE OR RELOCATE ELECTRICAL PER PLAN
 - ⑥ ENTRANCE TO ADJACENT PROPERTIES TO REMAIN OPEN
 - ⑦ UTILITIES TO BE REMOVED. MAINTAIN ELECTRICAL SERVICE WITH TEMPORARY GENERATOR AS REQUIRED UNTIL NEW UTILITIES ARE INSTALLED.
 - ⑧ DEMOLISH AFTER NEW SYSTEM IS OPERATIONAL
- ▨ DEMO EXISTING PAVEMENT



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REVISIONS		
REV	DATE	DESCRIPTION

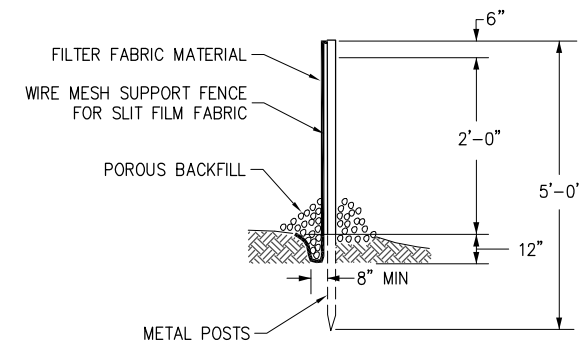
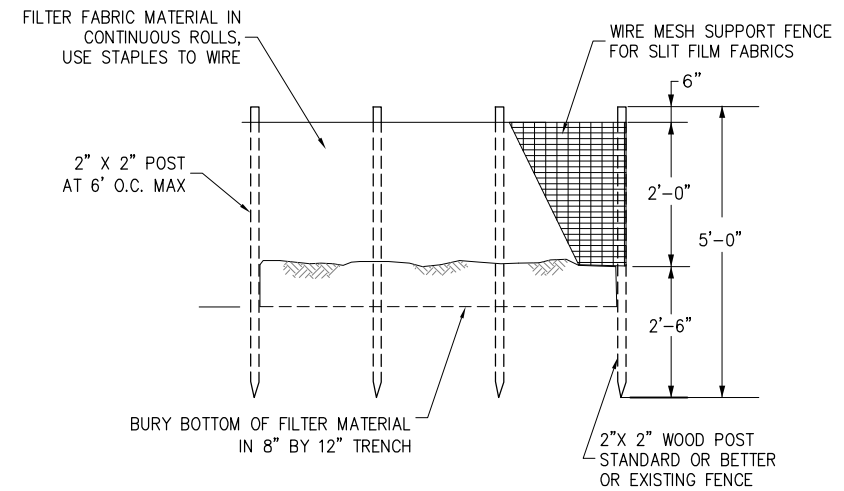
PROJECT: WOOD STREET IMPROVEMENTS		SHEET NO: C1.01	
TITLE: SITE PREPARATION PLAN			
DESIGNED BY: DRH	SR PROJECT NO: 114018.01	DATE: MARCH 2016	
CHECKED BY: GW	GW SCALE: NOTED		

GENERAL EROSION AND SEDIMENT CONTROL NOTES

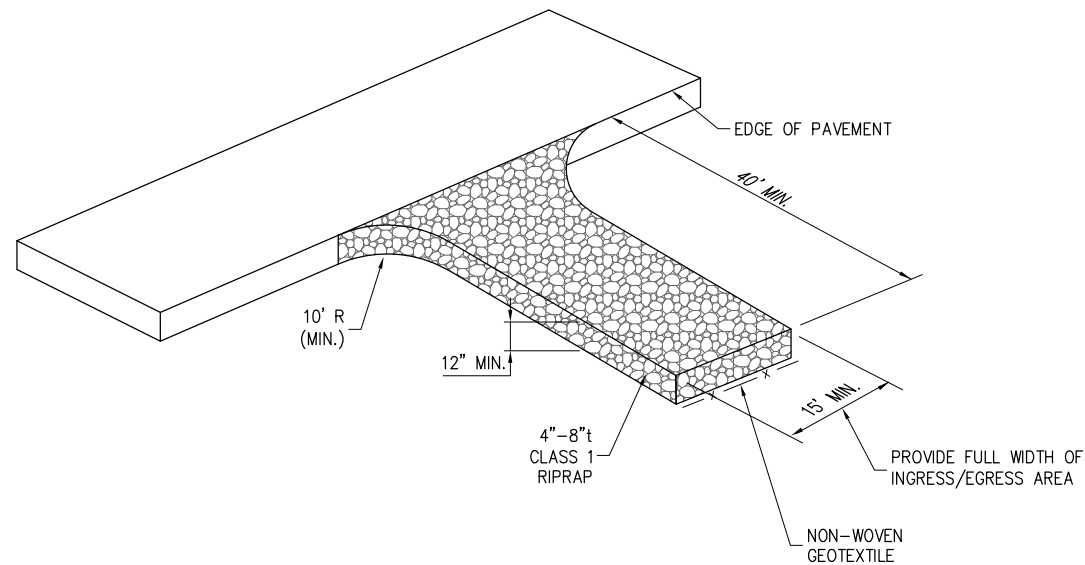
- 1) The implementation of these TESC plans and the construction, maintenance, replacement, and upgrading of these TESC facilities is the responsibility of the contractor until all construction is approved.
- 2) The TESC facilities shown on this plan must be constructed prior to or in conjunction with 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 TESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded as needed for unexpected storm events and modified to account for changing site conditions (e.g., additional sump pumps, relocation of ditches and silt fences, etc.).
- 4) The TESC facilities shall be inspected daily by the Contractor and maintained to ensure continued proper functioning. Written records shall be kept of weekly reviews of the TESC facilities during the wet season.
- 5) Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season or seven days during the dry season shall be immediately stabilized with the approved TESC methods (e.g., mulching, plastic covering, etc.).
- 6) Any area needing TESC measures not requiring immediate attention shall be addressed within fifteen (15) days.
- 7) The TESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within forty-eight (48) hours following a storm event.
- 8) At no time shall more than one (1) foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment-laden water into the downstream system.
- 9) Stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project. Where mulch for temporary erosion control is required, it shall be applied at a minimum thickness of 2 to 3 inches. No straw or hay bales permitted.
- 10) During the period of November 1 through March 31, all project disturbed areas greater than 5,000 square feet and where no further work is anticipated for a period of fifteen (15) days, shall be covered by one of the following cover measures: mulch or plastic covering.

SITE SPECIFIC EROSION CONTROL NOTES

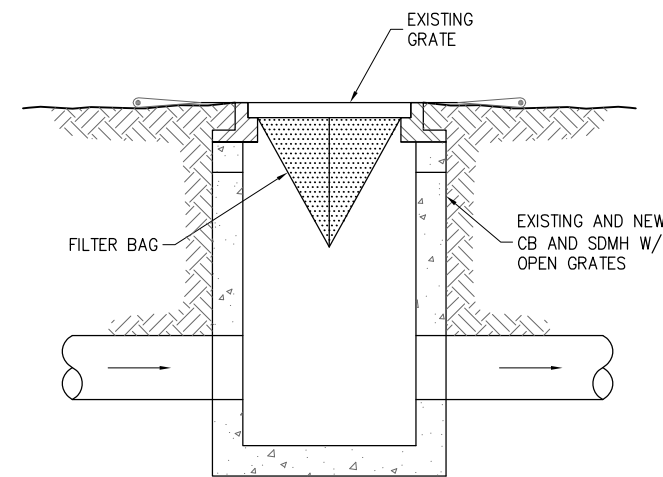
- 1) Contractor is required to ensure no tracking of mud onto paved surfaces and will be required to install a wheel wash if tracking is persistent and can not be prevented.
- 2) Contractor is required to clean any debris and tracked mud on paved surfaces immediately.
- 3) All erosion control work required to maintain a clean site and prevent the discharge of sediment and tracking from the site shall be considered incidental to the project.



SILT FENCE



CONSTRUCTION ENTRANCE



INLET PROTECTION

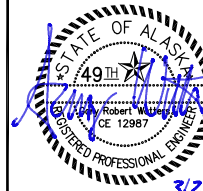
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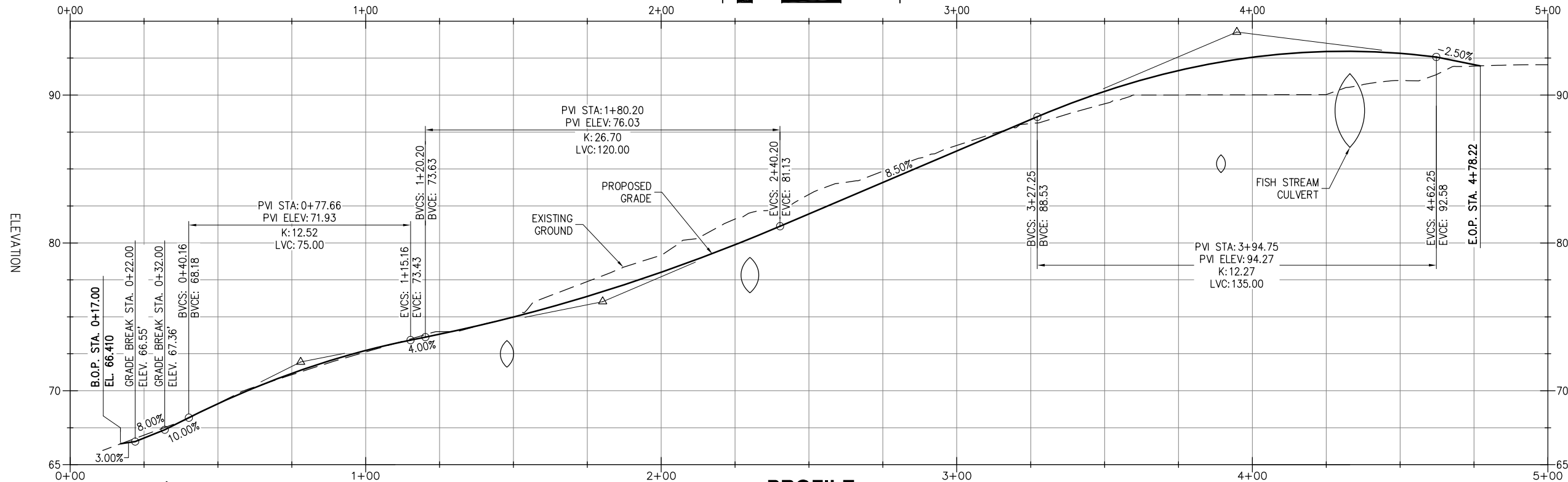
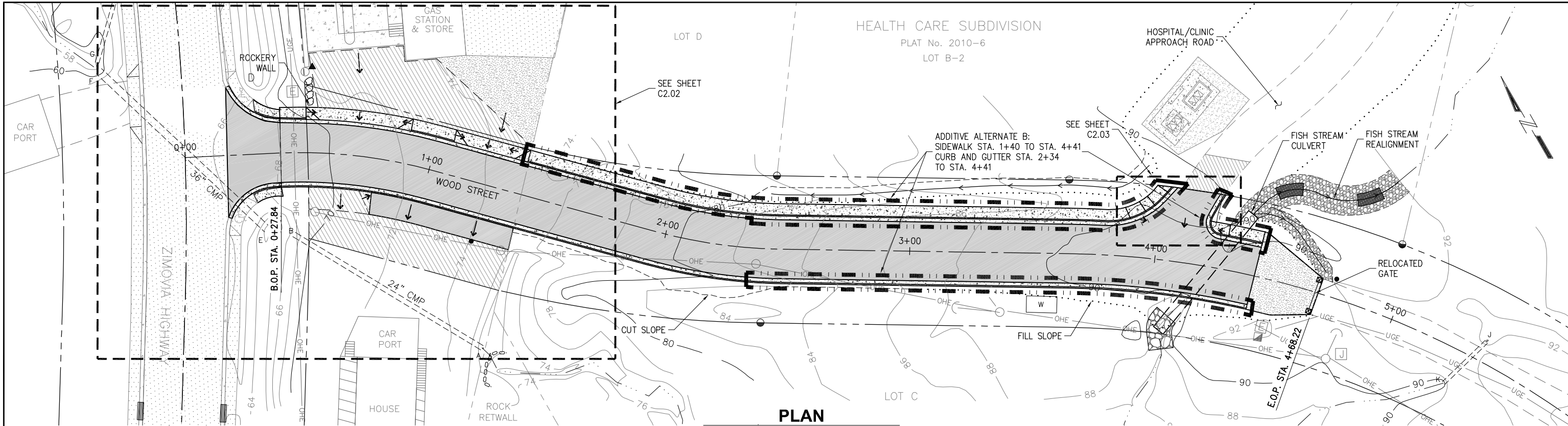
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TESC DETAILS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C1.02

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C1.02.dwg



PROFILE
SCALE: 1" = 20' HORIZONTAL
5x VERTICAL EXAGGERATION

FOR BID

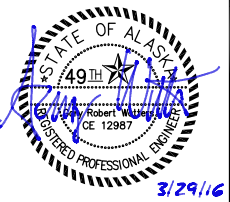
WOOD STREET IMPROVEMENTS

ROADWAY PLAN AND PROFILE

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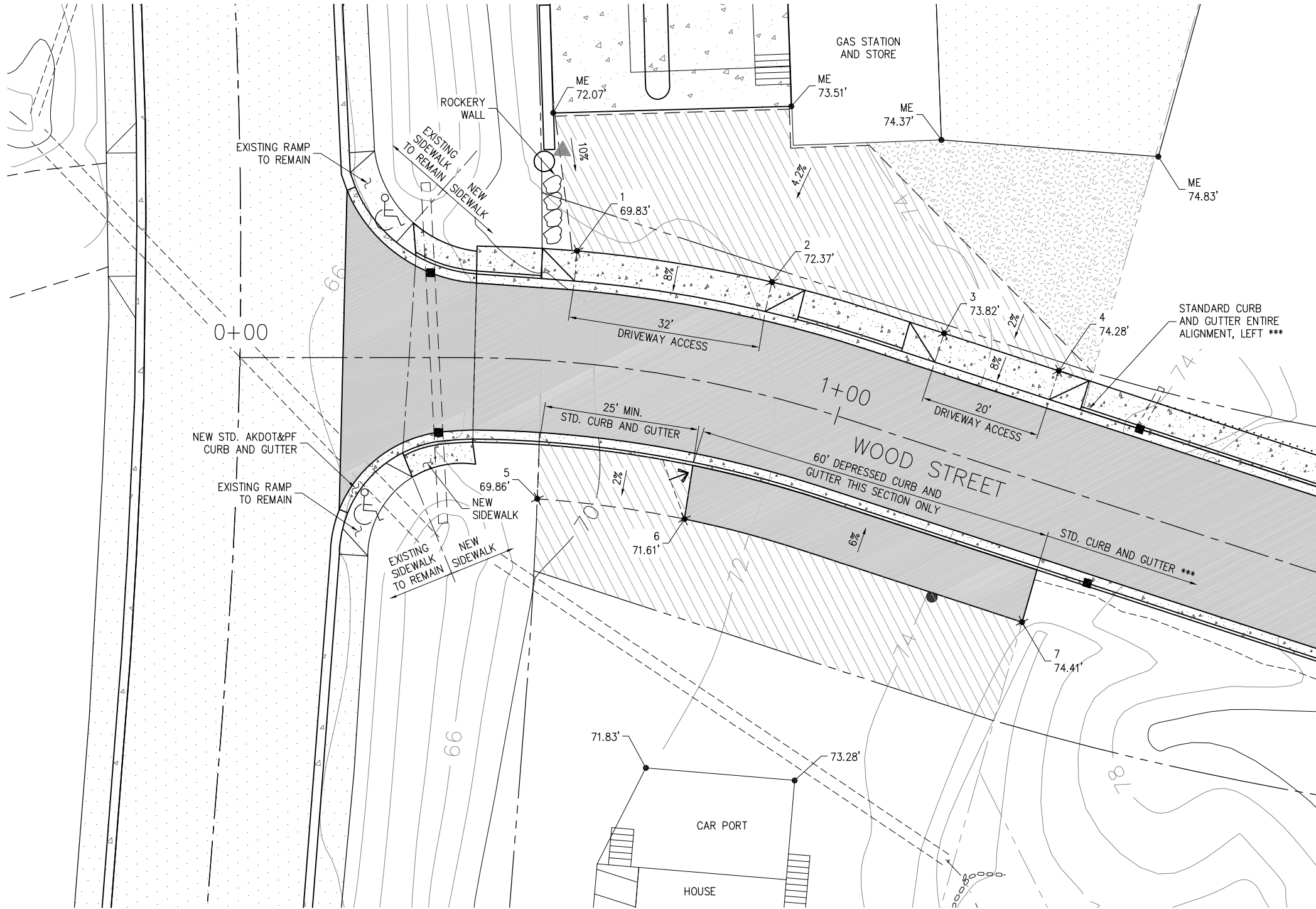


REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: ROADWAY PLAN AND PROFILE			
DESIGNED BY:	SR	PROJECT NO: 114018.01	SHEET NO:
DRAWN BY:	DRH	DATE: MARCH 2016	C2.01
CHECKED BY:	GW	SCALE: NOTED	

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C2.01.dwg

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C2.02.dwg



GRADING POINTS TABLE		
POINT #	STATION	OFFSET
1	0+54.32	18.5'L
2	0+84.38	18.5'L
3	1+12.63	18.5'L
4	1+32.63	18.5'L
5	0+50.86	23.0'R
6	0+78.63	23.0'R
7	1+39.79	23.0'R

LEGEND

- ME xx.xx' EXISTING ELEVATION TO BE MATCH
- xx.xx' PROPOSED ELEVATION
- [Pattern] EXISTING GRAVEL
- [Pattern] GRAVEL REGRADE
- [Pattern] PROPOSED ASPHALT
- [Pattern] NEW CONCRETE

*** SEE ADDITIVE ALTERNATE B NOTE ON SHEET C2.01



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REVISIONS		
REV	DATE	DESCRIPTION

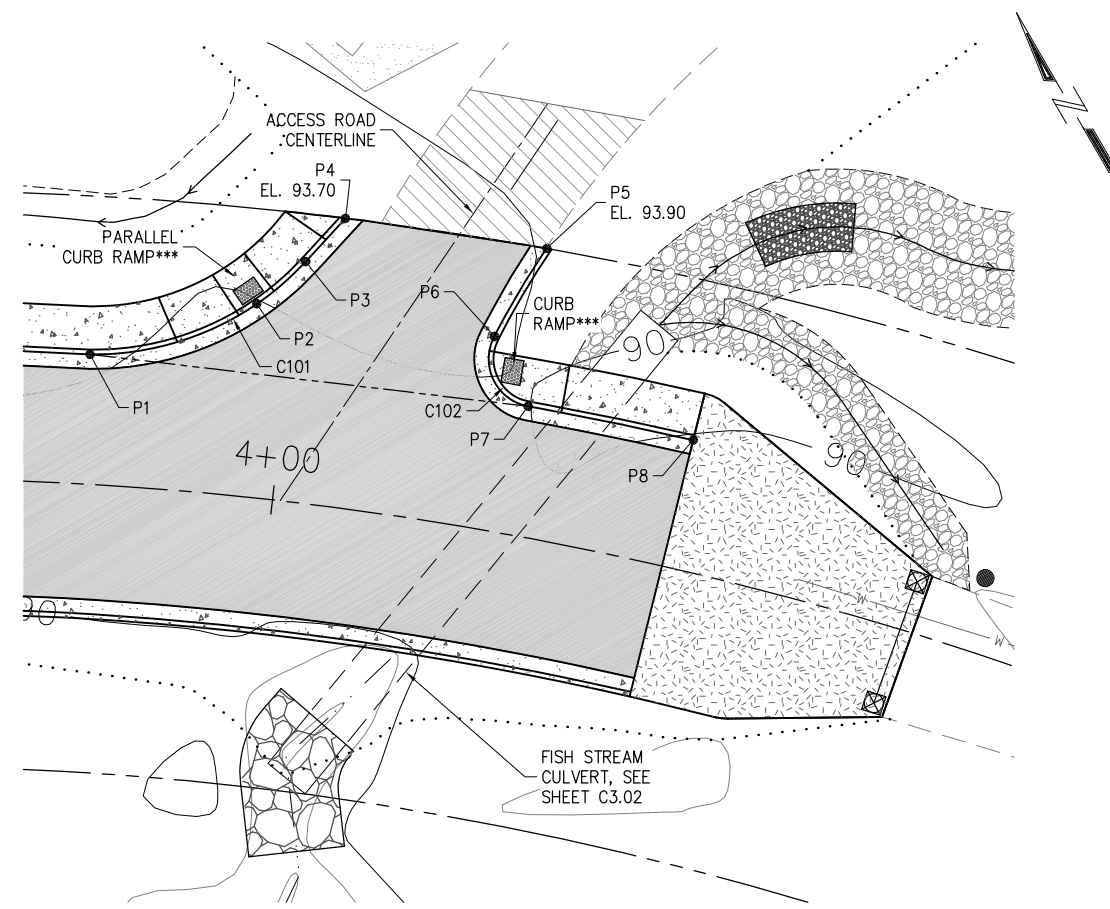
FOR BID

WOOD STREET IMPROVEMENTS

DRIVEWAY GRADING PLAN

DESIGNED BY:	SR	PROJECT NO:	114018.01	SHEET NO:	C2.02
DRAWN BY:	DRH	DATE:	MARCH 2016		
CHECKED BY:	GW	SCALE:	NOTED		

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C2.03.dwg



PLAN



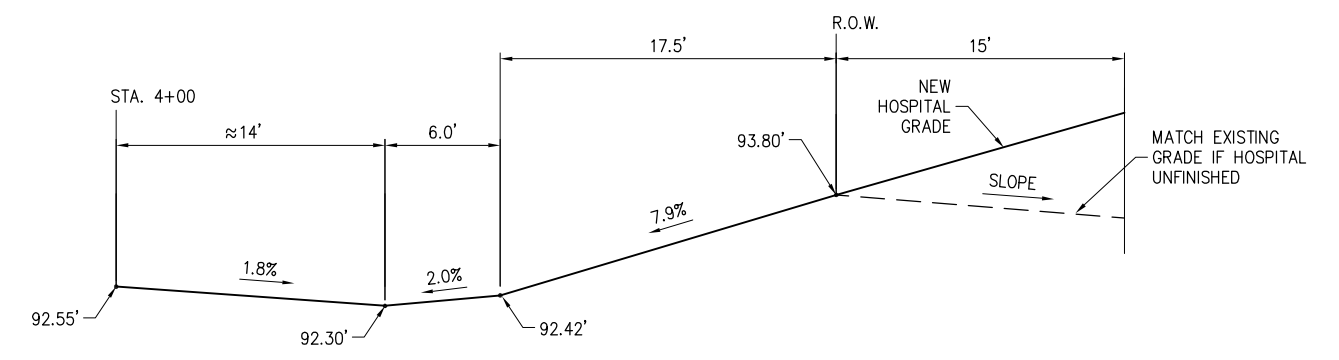
LEGEND

- PROPOSED ASPHALT
- NEW CONCRETE
- GRAVEL REGRADE
- HINGE LINE

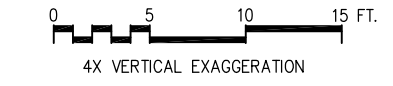
*** SEE ADDITIVE ALTERNATE B NOTE ON SHEET C2.01

POINT TABLE		
POINT #	STATION	OFFSET
P1	3+80.16	13.50'L
P2	3+96.33	20.13'L
P3	4+00.63	25.04'L
P4	4+03.97	30.00'L
P5	4+23.50	30.00'L
P6	4+20.69	22.32'L
P7	4+24.48	13.50'L
P8	4+41.40	13.50'L

ALIGNMENT CURVE TABLE			
CURVE #	LENGTH	RADIUS	CENTER POINT (N,E)
C101	25.18'	30'	9903.65,10233.93
C102	9.41'	5'	9854.20,10258.64



PROFILE



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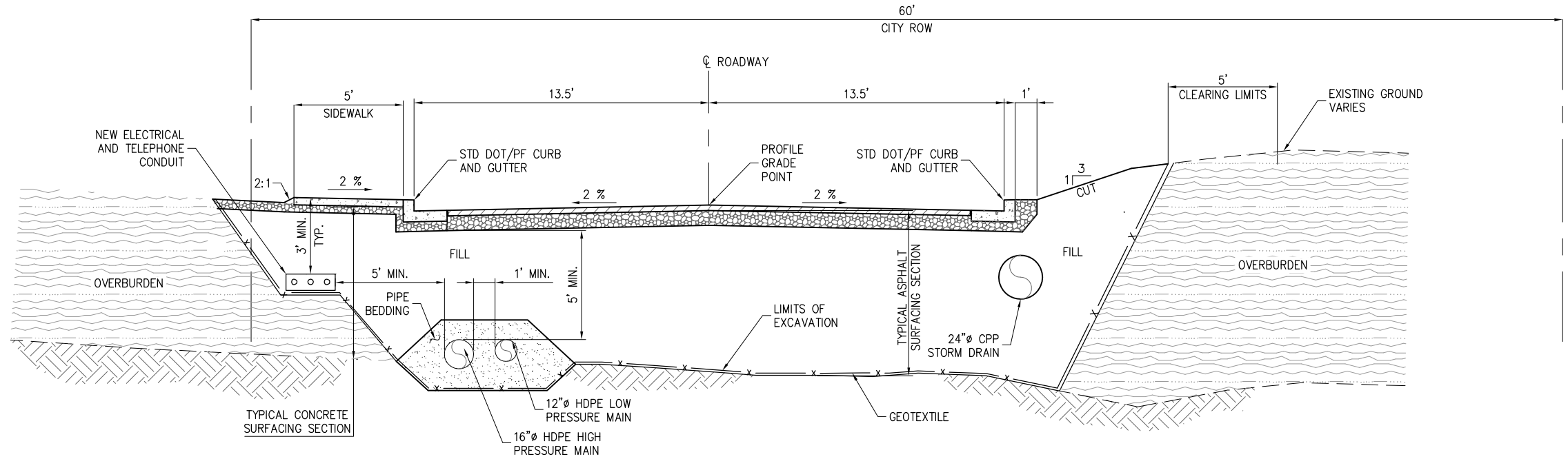
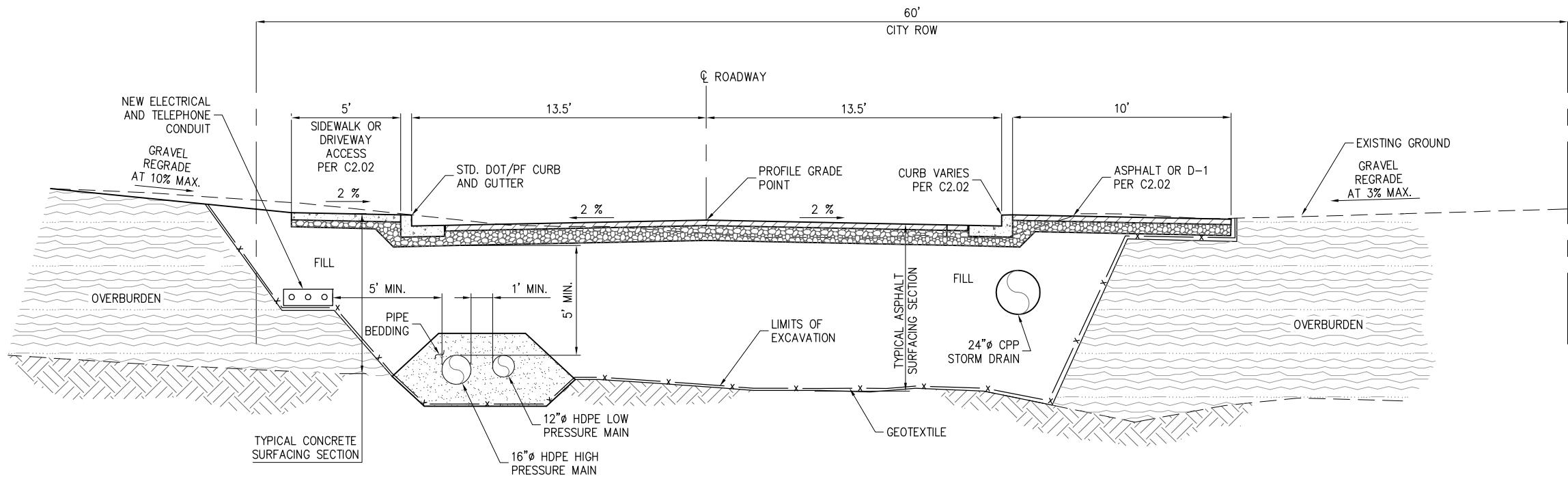
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: AICS APPROACH PLAN			
DESIGNED BY:	SR	PROJECT NO: 114018.01	SHEET NO:
DRAWN BY:	DRH	DATE: MARCH 2016	C2.03
CHECKED BY:	GW	SCALE: NOTED	

* EXCAVATE TO COMPETENT BEARING LAYER AS DETERMINED BY ON-SITE ENGINEER.
 ** PROTECT UTILITIES DURING EXCAVATION.



FOR BID

WOOD STREET IMPROVEMENTS

ROADWAY DETAILS

DESIGNED BY:	SR	PROJECT NO:	114018.01	SHEET NO:	C2.04
DRAWN BY:	DRH	DATE:	MARCH 2016		
CHECKED BY:	GW	SCALE:	NOTED		

REVISIONS		
REV	DATE	DESCRIPTION



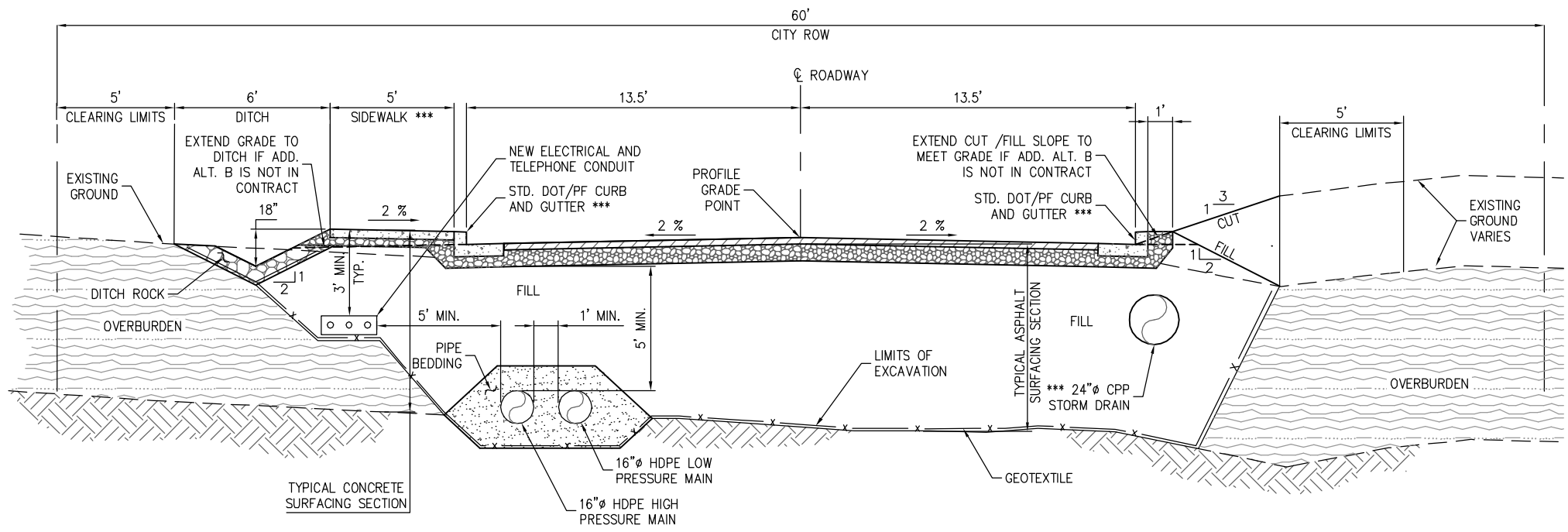
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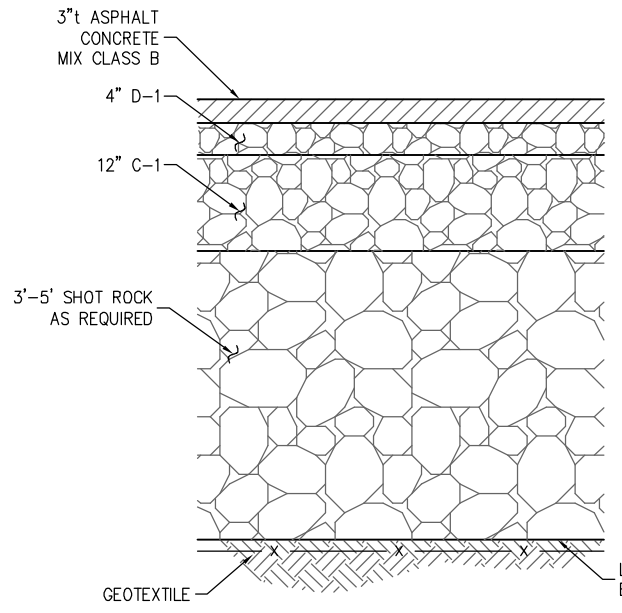
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3/29/16 Drawings 2011114018.01 - Wood Street Improvement 100% For Bid 2016 114018.01 - C2.04.dwg

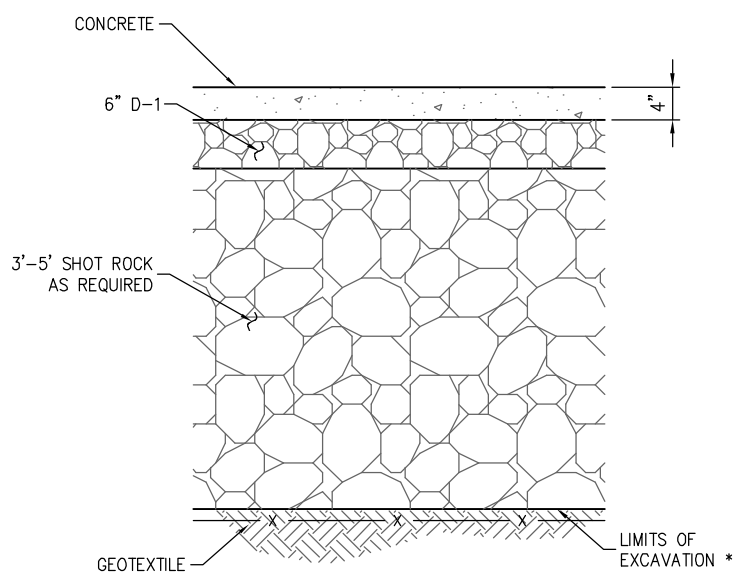
* EXCAVATE TO COMPETENT BEARING LAYER AS DETERMINED BY ON-SITE ENGINEER.
 ** PROTECT UTILITIES DURING EXCAVATION.
 *** SEE ADDITIVE ALTERNATE B NOTES ON SHEETS C2.01 AND C3.01.



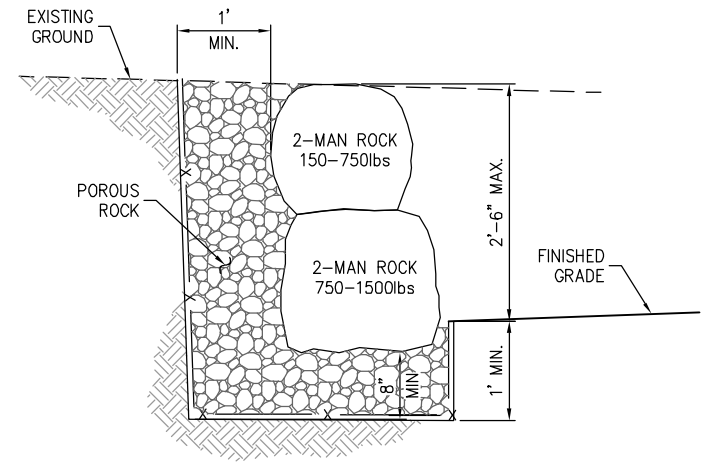
WOOD STREET SECTION TYPE C
 FROM STA. 2+34.00 TO STA. 4+41.20



TYPICAL ASPHALT SURFACING SECTION



TYPICAL SIDEWALK SURFACING SECTION



ROCKERY WALL

FOR BID

3/29/16 Drawings 2011114018.01 - Wood Street Improvement 100% For Bid 2016 114018.01-C2.05.dwg

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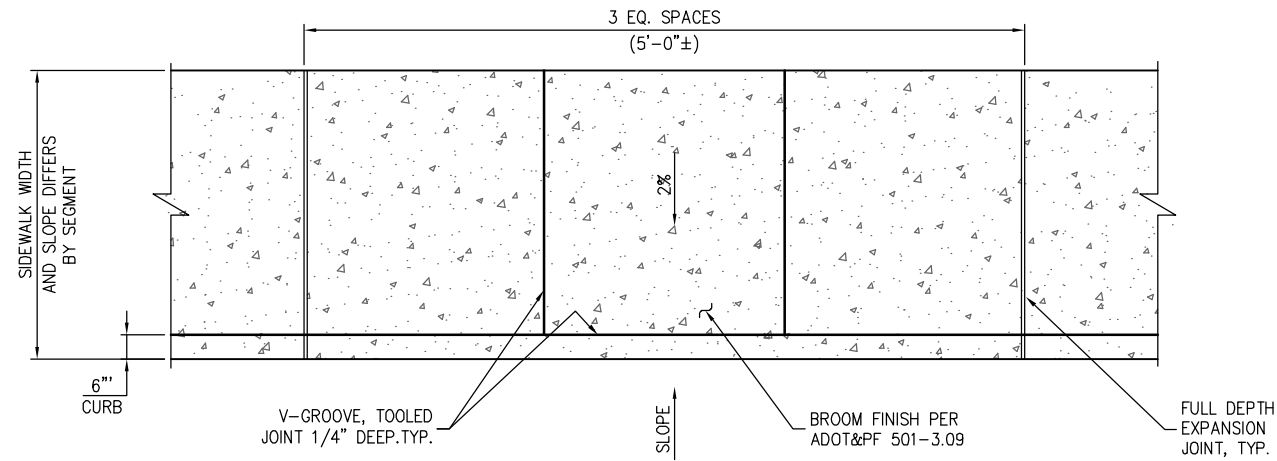


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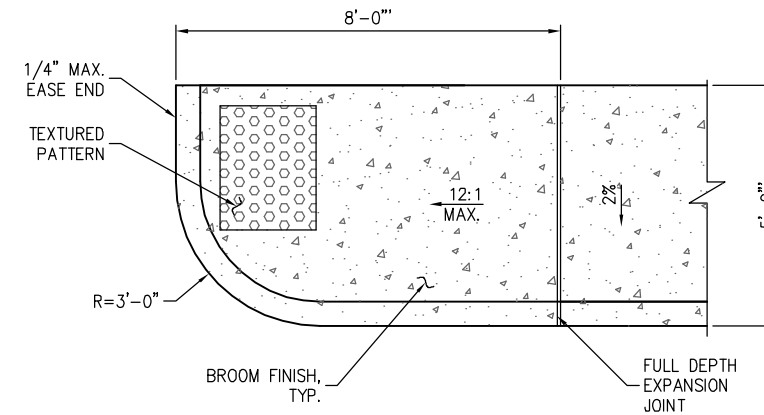


REVISIONS		
REV	DATE	DESCRIPTION

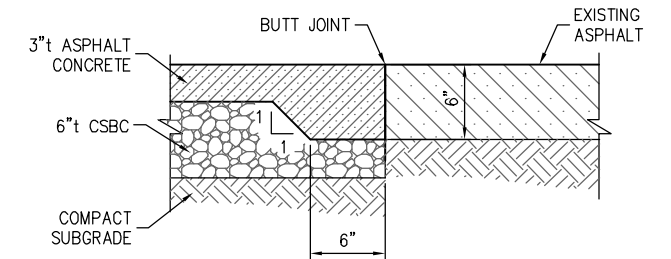
PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		ROADWAY DETAILS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C2.05



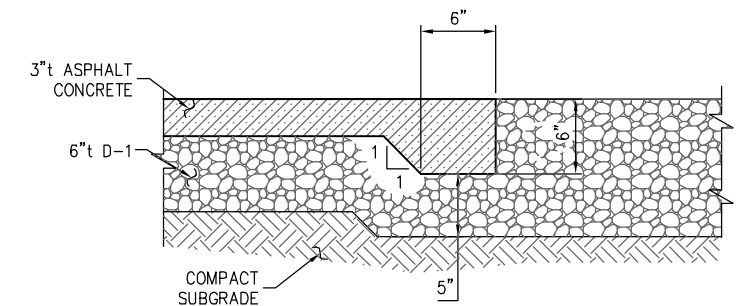
TYPE A & E SIDEWALK JOINT LAYOUT



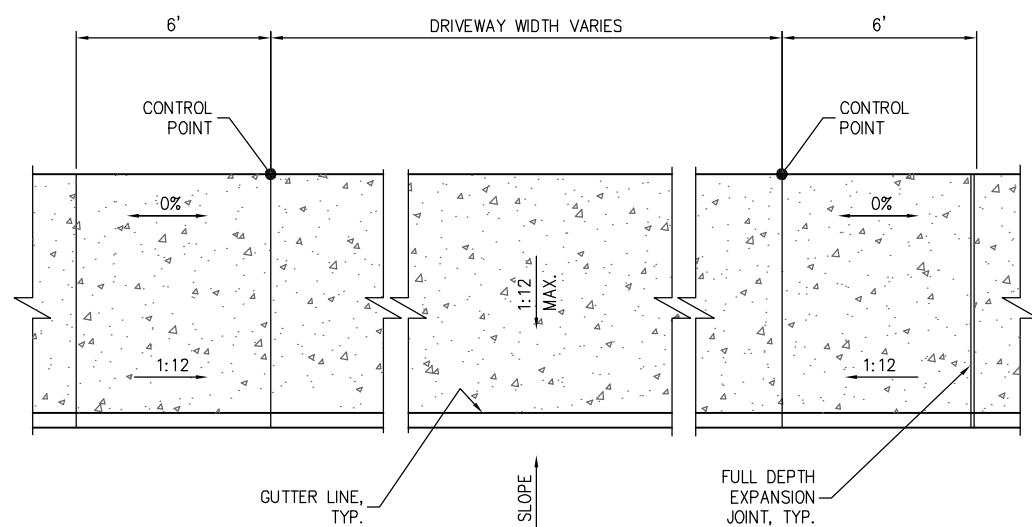
CURB CUT RAMP



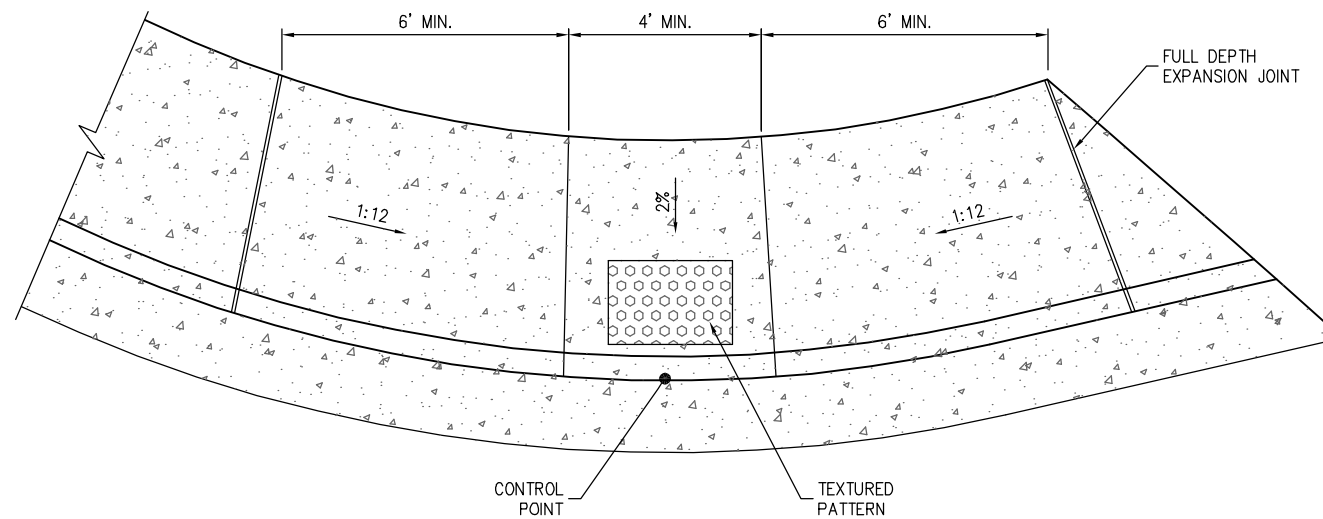
SAWCUT SECTION



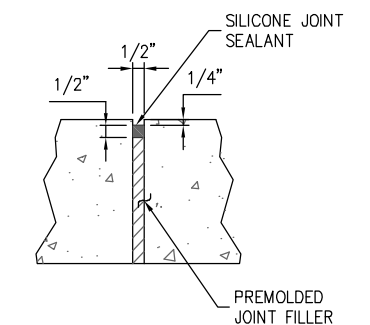
THICKENED ASPHALT EDGE SECTION



DRIVEWAY ACCESS



PARALLEL RAMP



FULL DEPTH EXPANSION JOINT

FOR BID

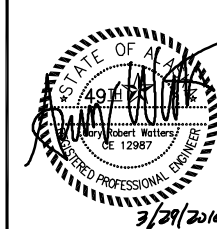
WOOD STREET IMPROVEMENTS

SIDEWALK DETAILS

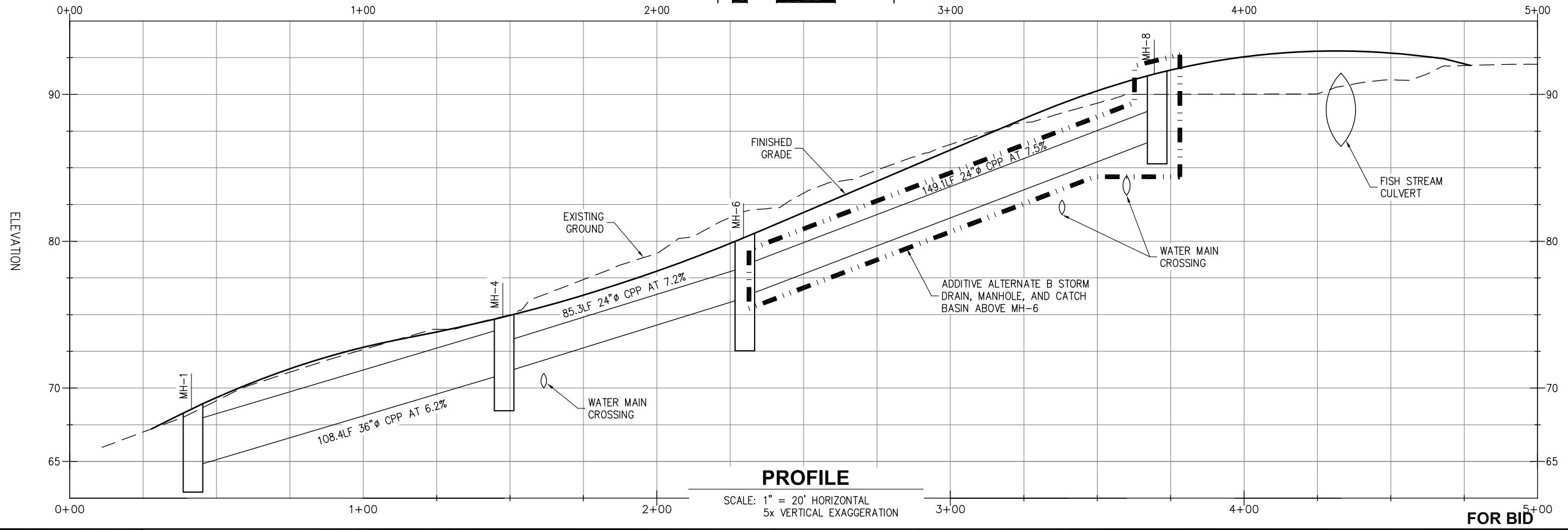
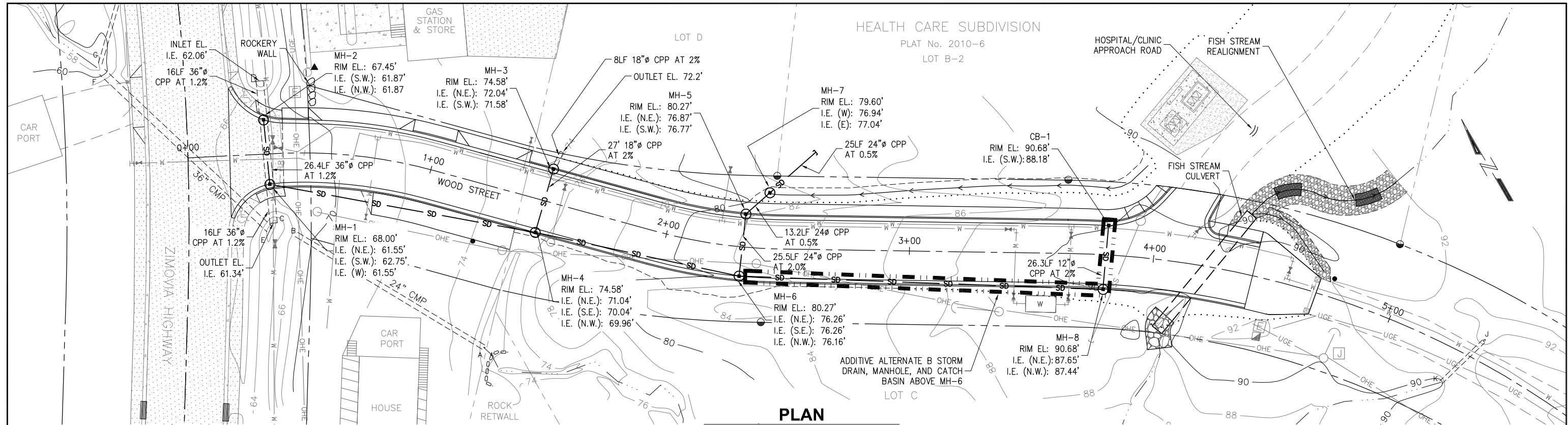
DESIGNED BY:	SR	PROJECT NO:	114018.01	SHEET NO:	C2.06
DRAWN BY:	DRH	DATE:	MARCH 2016		
CHECKED BY:	GW	SCALE:	NOTED		

REVISIONS		
REV	DATE	DESCRIPTION

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SCALE: 1" = 20' HORIZONTAL
5x VERTICAL EXAGGERATION

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3/29/16 Drawings 2011\114018.01 - Wood Street Improvement 100% For Bid 2016\114018.01-C3.01.dwg

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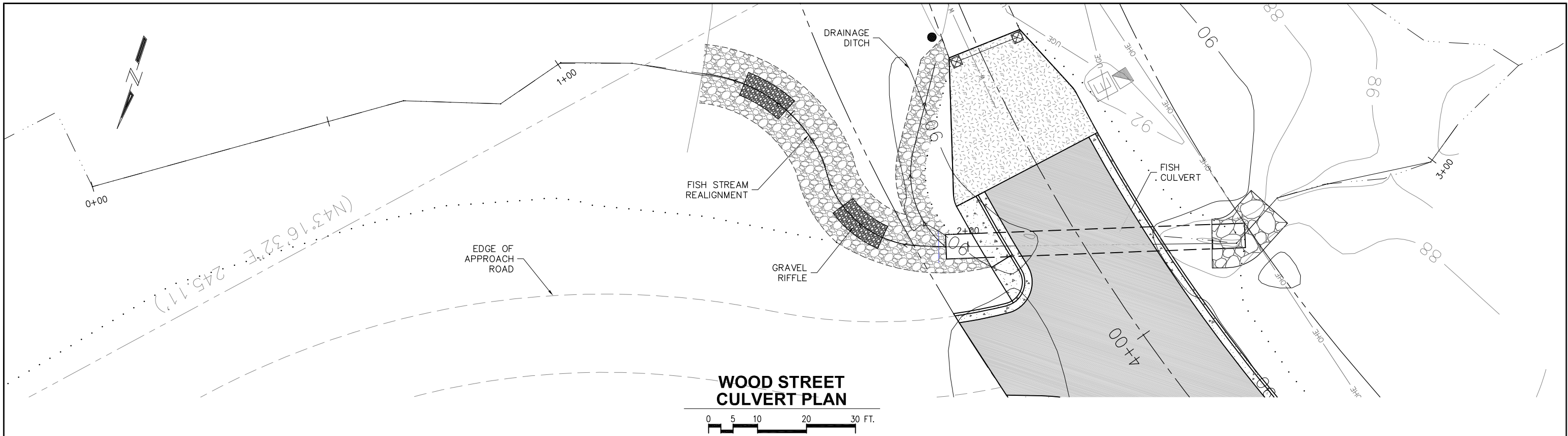
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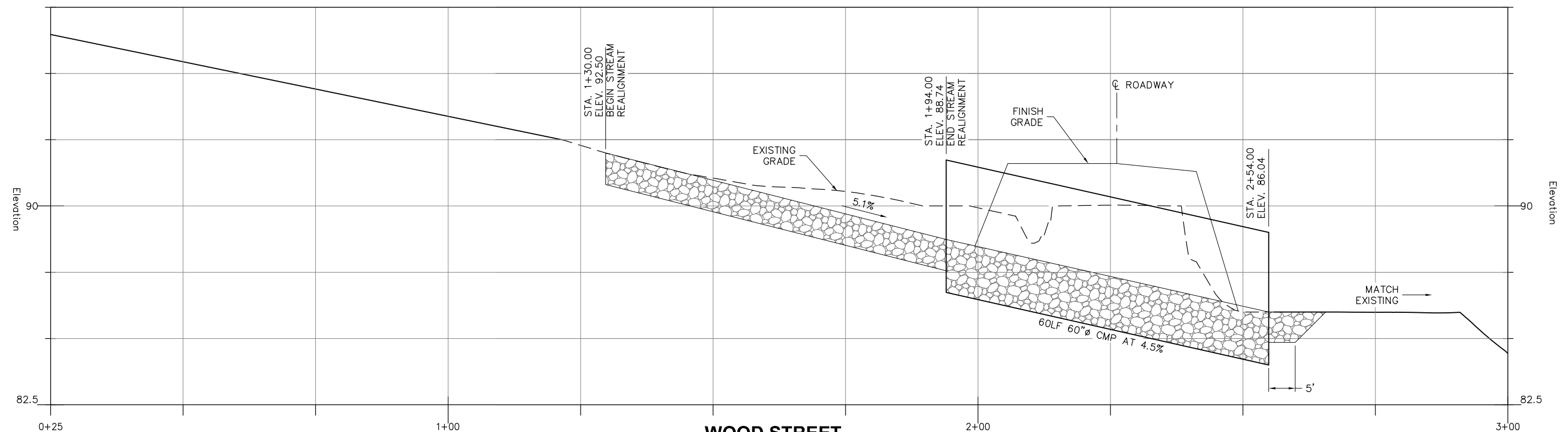
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: STORMWATER PLAN AND PROFILE			
DESIGNED BY:	SR	PROJECT NO: 114018.01	SHEET NO:
DRAWN BY:	DRH	DATE: MARCH 2016	C3.01
CHECKED BY:	GW	SCALE: NOTED	

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C3.02.dwg



WOOD STREET CULVERT PLAN



WOOD STREET CULVERT PROFILE

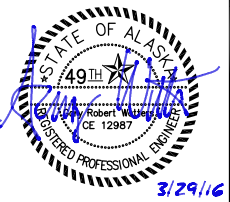
SCALE: 1" = 10' HORIZONTAL
??x VERTICAL EXAGGERATION

FOR BID

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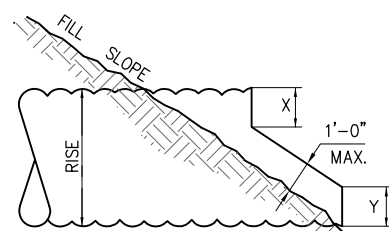
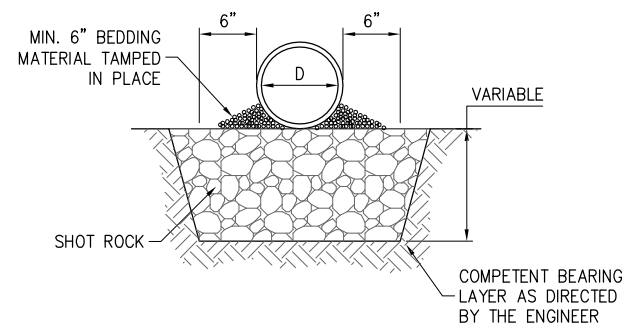
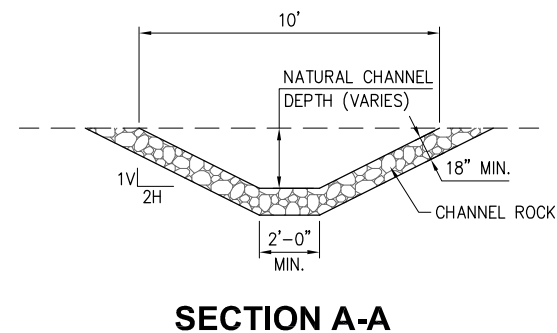
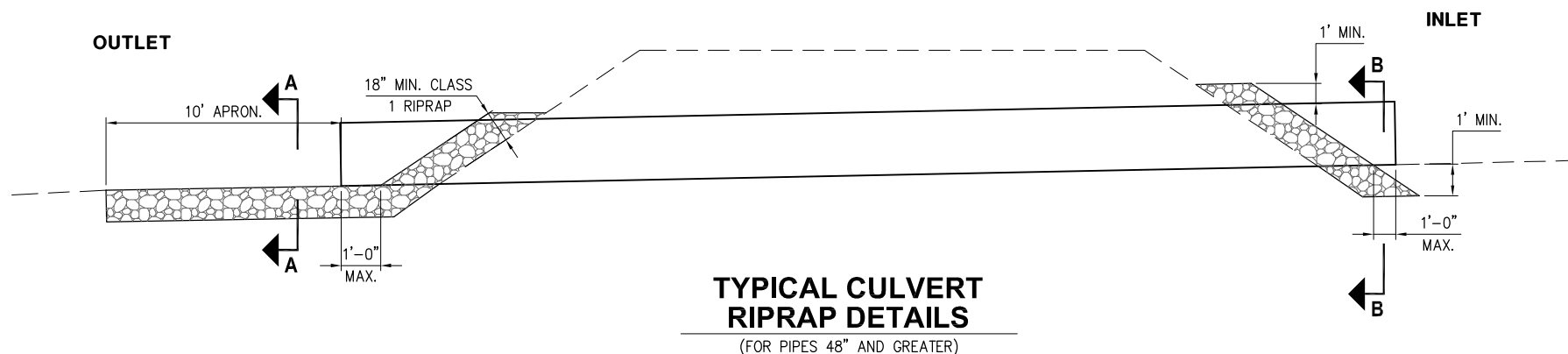


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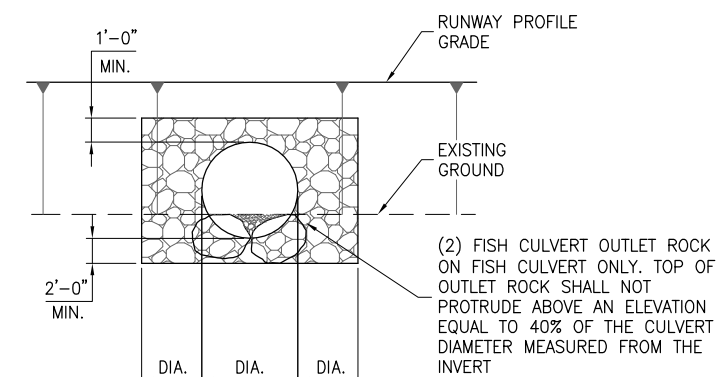


REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: FISH CULVERT PLAN AND PROFILE			
DESIGNED BY:	SR	PROJECT NO: 114018.01	SHEET NO:
DRAWN BY:	DRH	DATE: MARCH 2016	C3.02
CHECKED BY:	GW	SCALE: NOTED	



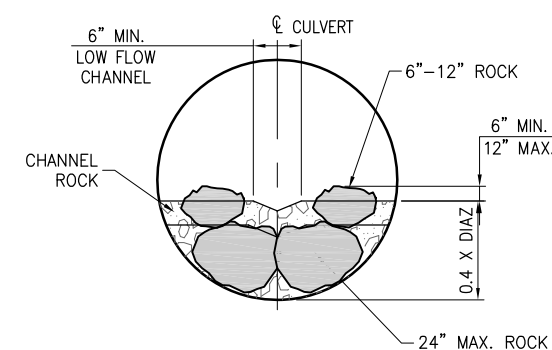
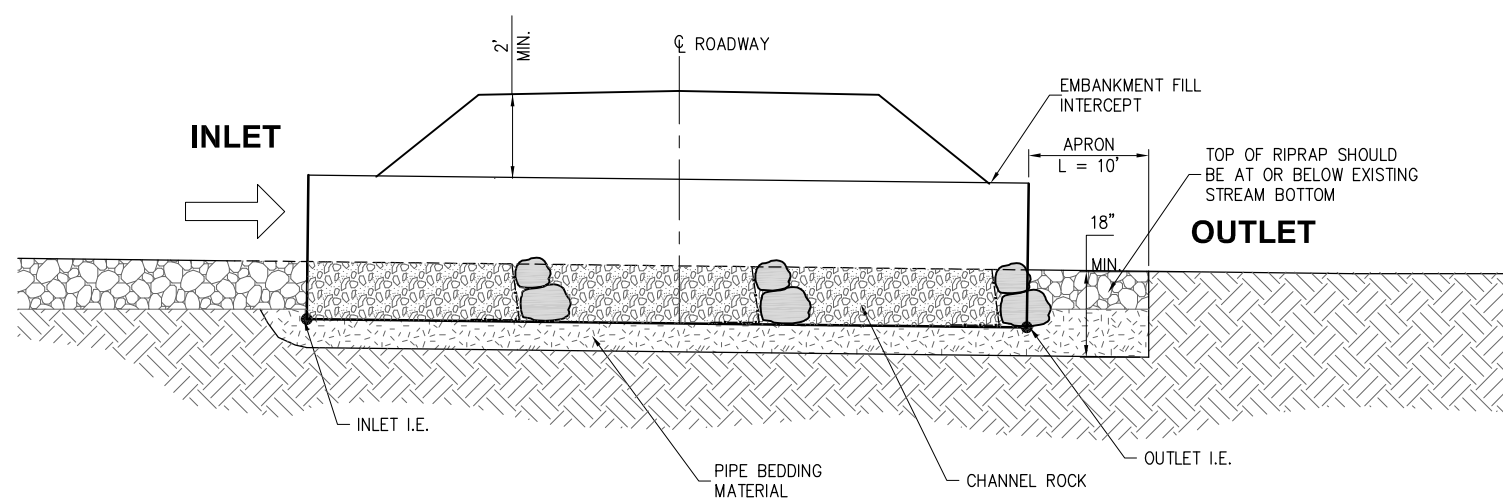
- 1) STEP BEVEL ALL PIPES.
- 2) BEVEL OF PIPE SHALL MATCH THE FILL SLOPE SHOWN ON THE DRAWINGS.
- 3) THE ENDS OF CULVERT SHALL NOT BE CUT ON A SKEW UNLESS SHOWN ON THE DRAWINGS.
- 4) $X = 1/4 D$ OR MANUFACTURERS STANDARDS.
- 5) $Y = 0.4D$



STABLE SUBGRADE
SUBEXCAVATION REQUIRED

BEVELED END DETAIL
NOT TO SCALE

SECTION B-B



FISH CULVERT INSTALLATION DETAIL
NOT TO SCALE

FISH CULVERT CROSS SECTION

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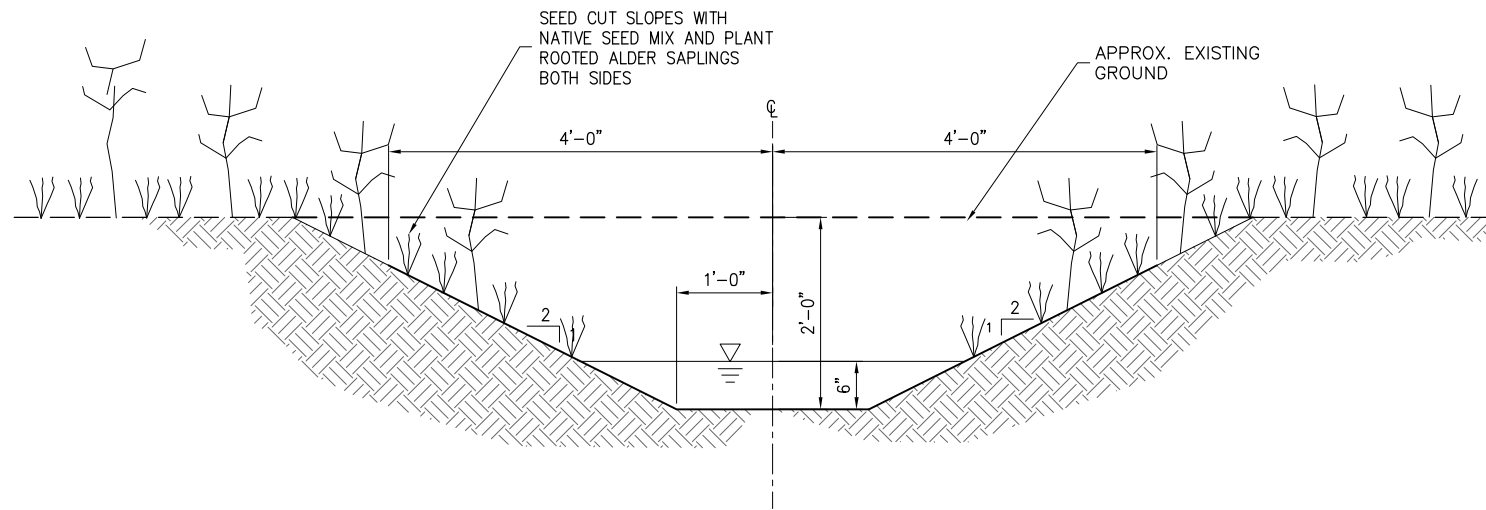
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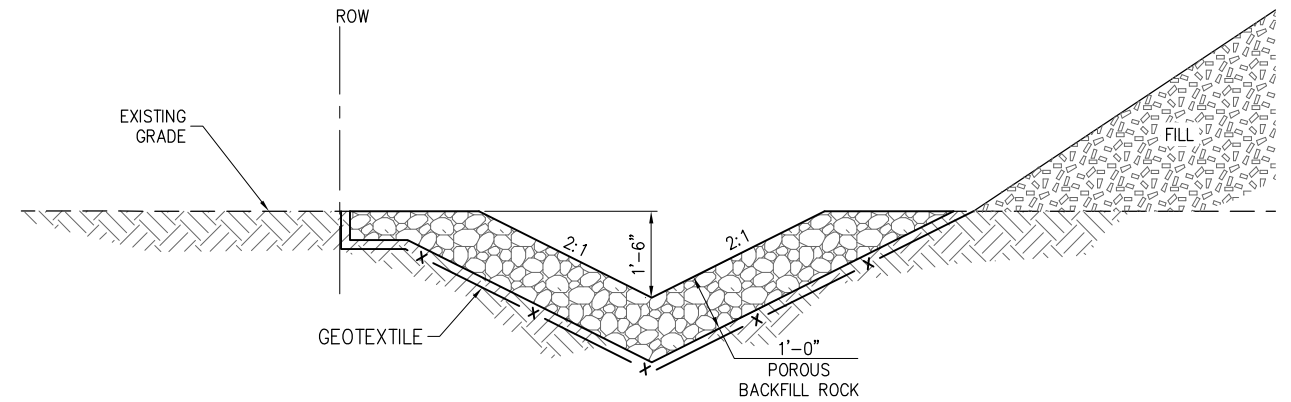
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: FISH CULVERT DETAILS			
DESIGNED BY: SR	PROJECT NO: 114018.01	SHEET NO: C3.03	
DRAWN BY: DRH	DATE: MARCH 2016		
CHECKED BY: GW	SCALE: NOTED		

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C3.04.dwg

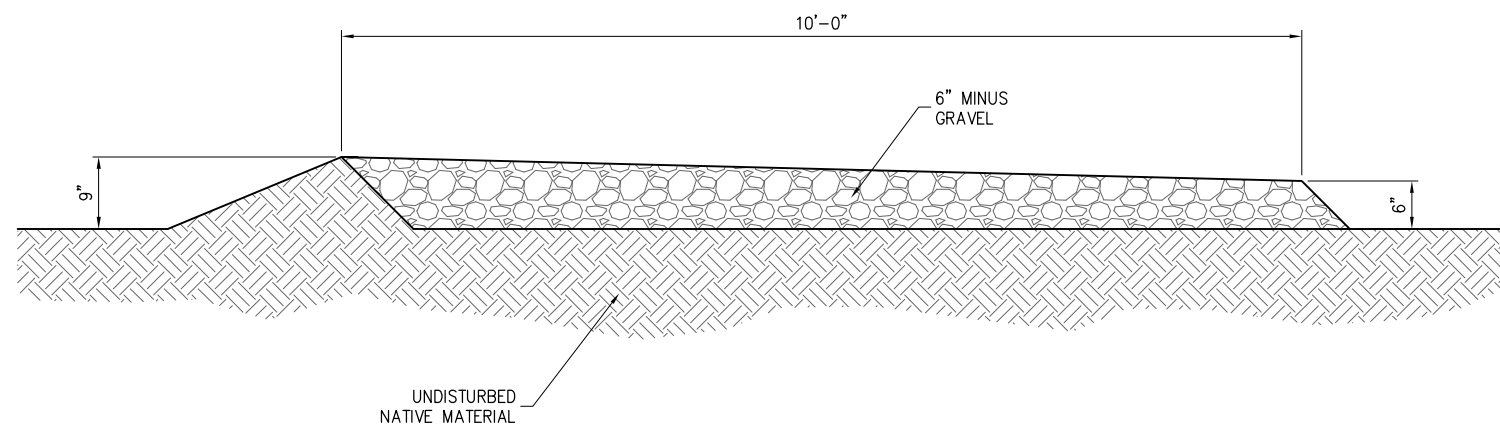


TYPICAL FISH STREAM SECTION

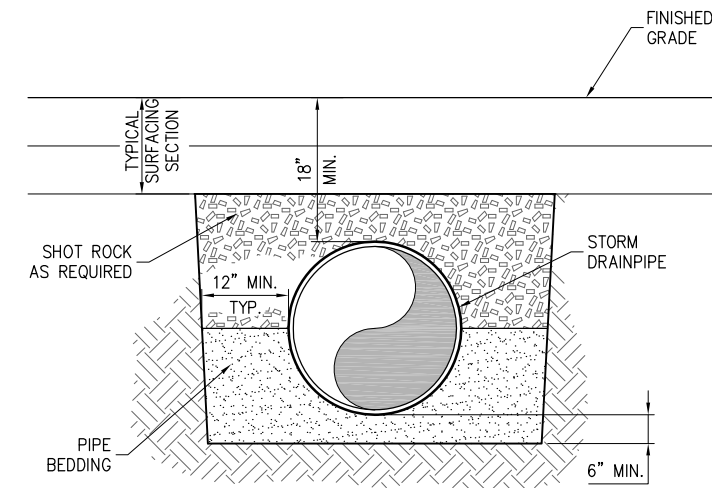


WOOD STREET DRAINAGE DITCH

STRUCTURE CONTROL TABLE				
No.	TYPE	SIZE	STATION	OFFSET
MH-1	STD. MANHOLE	72"Ø	0+32.87	12.39R
MH-2	STD. MANHOLE	60"Ø	0+31.57	13.99L
MH-3	STD. MANHOLE	60"Ø	1+48.37	13.50L
MH-4	STD. MANHOLE	60"Ø	1+48.03	13.50R
MH-5	STD. MANHOLE	60"Ø	2+31.80	13.50L
MH-6	STD. MANHOLE	72"Ø	2+31.32	12.00R
MH-7	STD. MANHOLE	60"Ø	2+41.97	22.87L
MH-8	STD. MANHOLE	60"Ø	3+80.05	14.21R
CB-1	INLET BOX TYPE A	STD.	3+80.89	12.04L



GRAVEL RIFFLE DETAIL



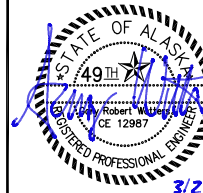
TYPICAL STORM DRAIN TRENCHING



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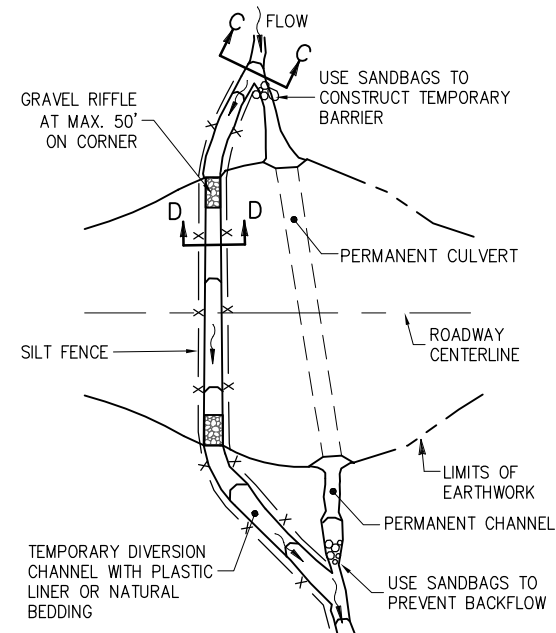
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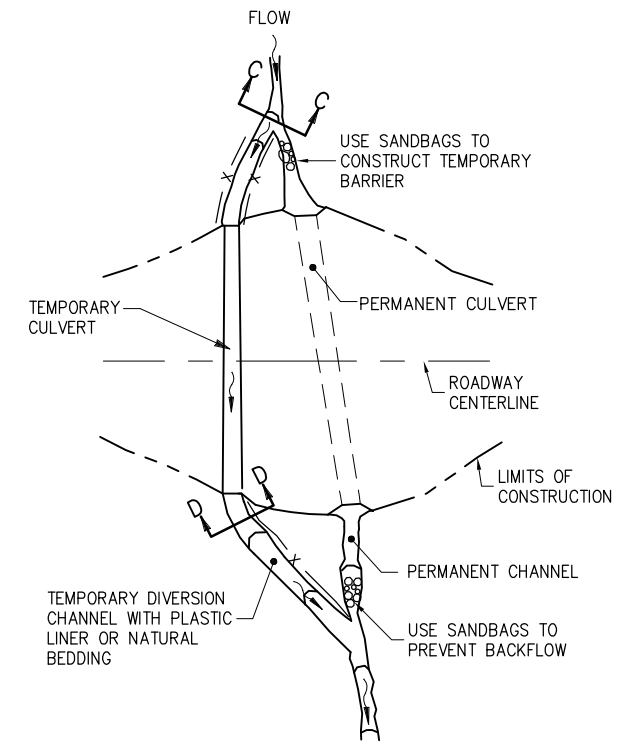
REVISIONS		
REV	DATE	DESCRIPTION

FOR BID			
PROJECT: WOOD STREET IMPROVEMENTS			
TITLE: STORM DRAIN DETAILS			
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C3.04

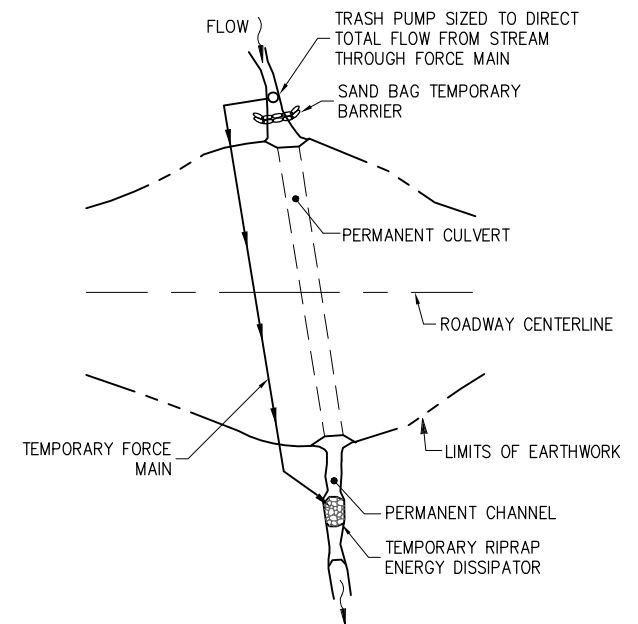
3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C3.05.dwg



TEMPORARY DIVERSION CHANNEL

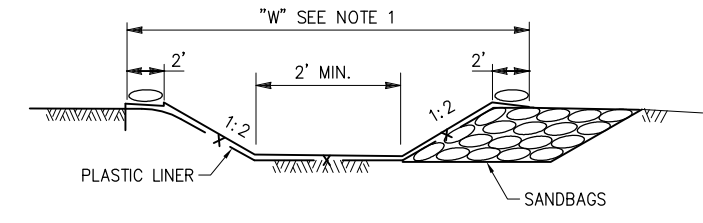


TEMPORARY CULVERT DIVERSION

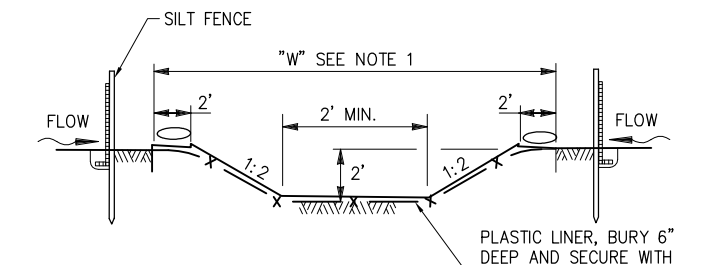


TEMPORARY TRASH PUMP DIVERSION

NOTE:
 1) THESE OPTIONS WOULD BE AVAILABLE TO THE CONTRACTOR IF NECESSARY DURING CONSTRUCTION.
 2) IF A TRASH PUMP IS USED DURING CONSTRUCTION THE INTAKE MUST BE OPERATED, AND MAINTAINED TO PREVENT FISH ENTRAPMENT, ENTRAINMENT, OR INJURY WITH THE USE OF PERFORATED PLATE AND WOVEN WIRE HAVING A MESH SIZE NOT GREATER THAN 3/32 INCHES OR PROFILE BAR AND WEDGEWIRE HAVING OPENINGS NOT GREATER THAN 1.75 MM. APPROACH VELOCITIES SHALL NOT EXCEED A PASSIVE VELOCITY OF 0.2 FEET PER SECOND (FPS) OR AN ACTIVE VELOCITY OF 0.4 FPS

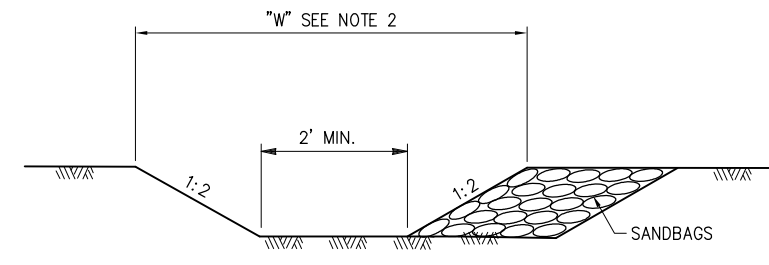


SECTION C-C

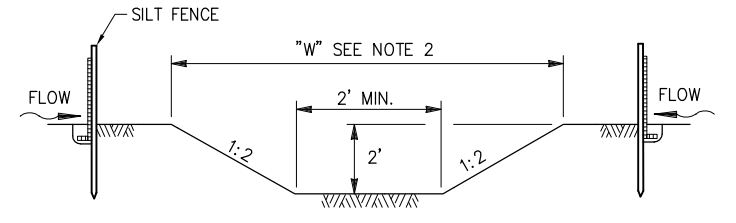


SECTION D-D

PLASTIC LINED DIVERSION CHANNEL



SECTION C-C



SECTION D-D

RIPRAP LINED DIVERSION CHANNEL

NOTE:
 1) "W" - MATCH STREAM WIDTH TO EXISTING.
 2) USE PLASTIC LINER ALONG THE ENTIRE LENGTH AND WIDTH OF THE TEMPORARY DIVERSION CHANNEL.
 3) CONSTRUCT CHANNEL AT A MINIMUM GRADE OF 0.5 PERCENT.
 4) DO NOT CONSTRUCT WITH LONGITUDINAL JOINTS IF USING A PLASTIC LINER. BURY THE UPSTREAM EDGE OF THE LINER A MINIMUM OF 6" DEEP AND SECURE SANDBAGS.

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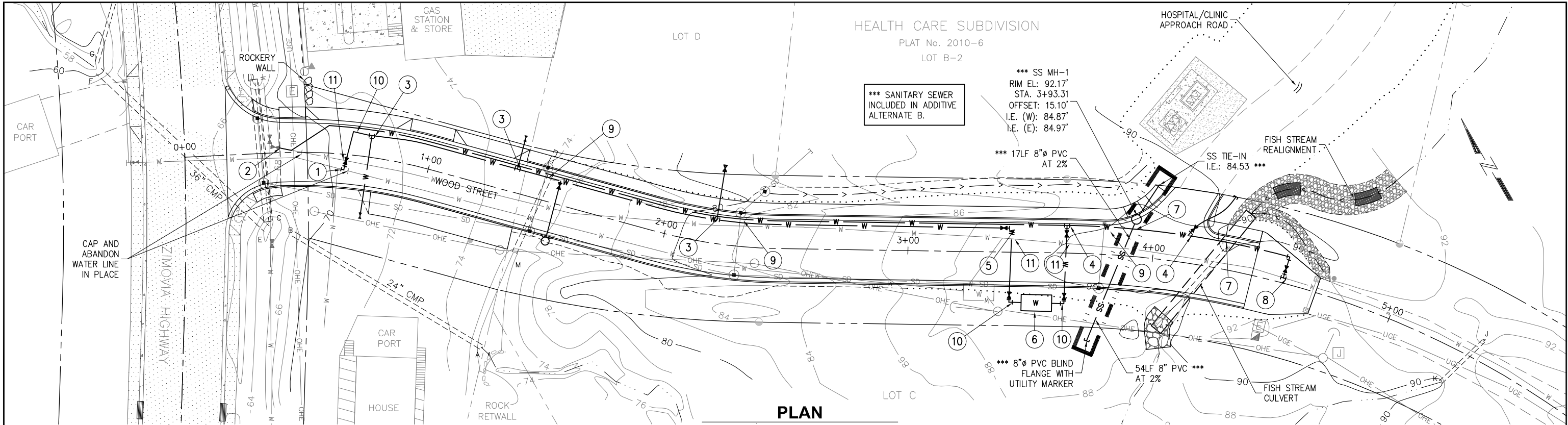


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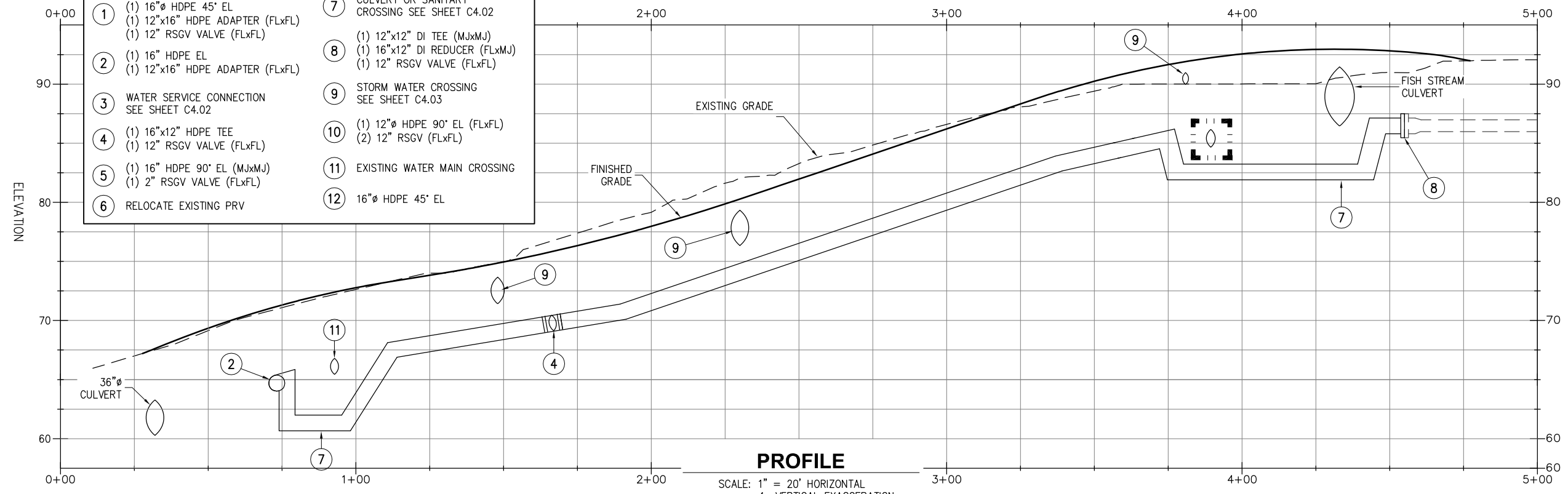


REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		TEMPORARY FISH STREAM DIVERSION OPTIONS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C3.05



UTILITY NOTES	
① (1) 16" HDPE 45° EL	⑦ CULVERT OR SANITARY CROSSING SEE SHEET C4.02
② (1) 16" HDPE EL	⑧ (1) 12"x12" DI TEE (MjxMj)
③ WATER SERVICE CONNECTION SEE SHEET C4.02	⑧ (1) 16"x12" DI REDUCER (FLxFL)
④ (1) 16"x12" HDPE TEE	⑧ (1) 12" RSGV VALVE (FLxFL)
④ (1) 12" RSGV VALVE (FLxFL)	⑨ STORM WATER CROSSING SEE SHEET C4.03
⑤ (1) 16" HDPE 90° EL (MjxMj)	⑩ (1) 12" HDPE 90° EL (FLxFL)
⑤ (1) 2" RSGV VALVE (FLxFL)	⑩ (2) 12" RSGV (FLxFL)
⑥ RELOCATE EXISTING PRV	⑪ EXISTING WATER MAIN CROSSING
	⑫ 16" HDPE 45° EL



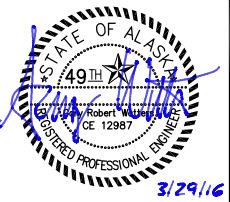
PROFILE
SCALE: 1" = 20' HORIZONTAL
4x VERTICAL EXAGGERATION

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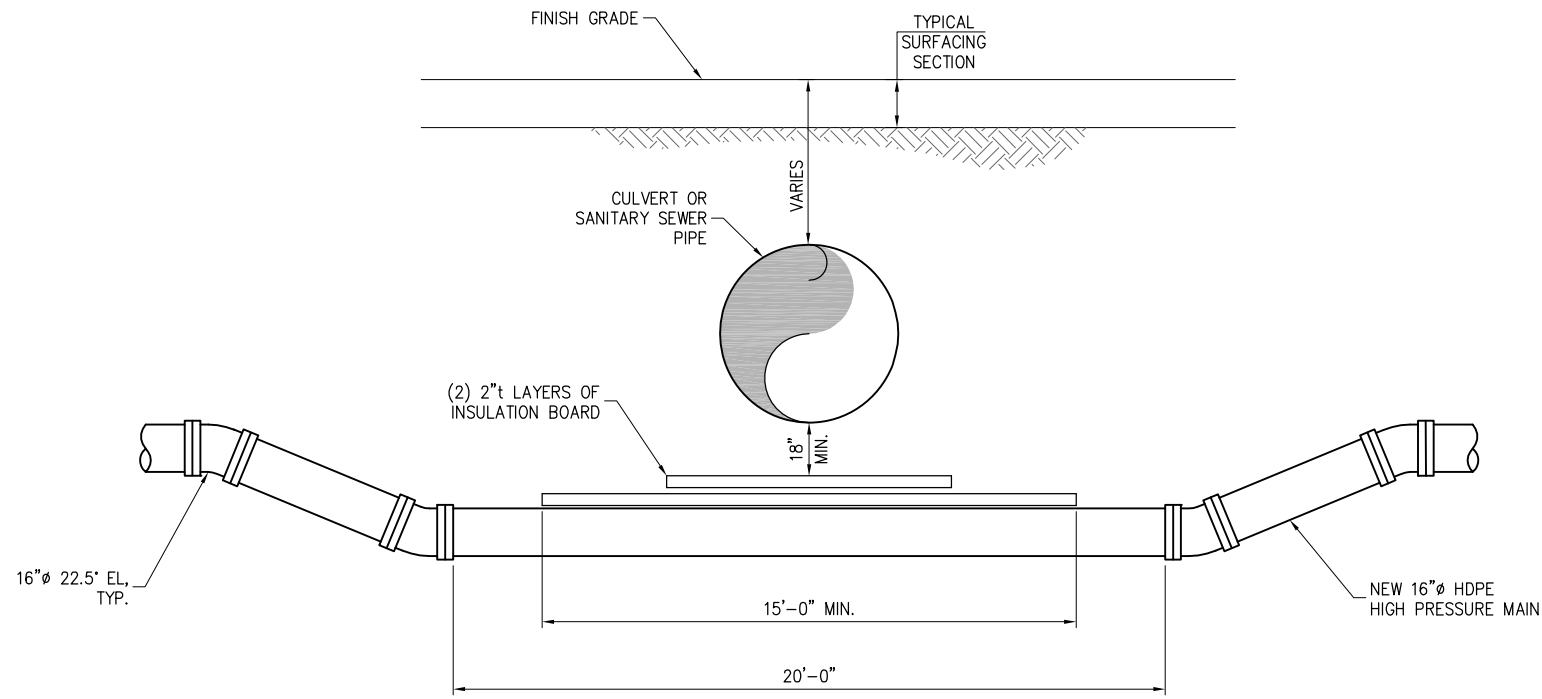
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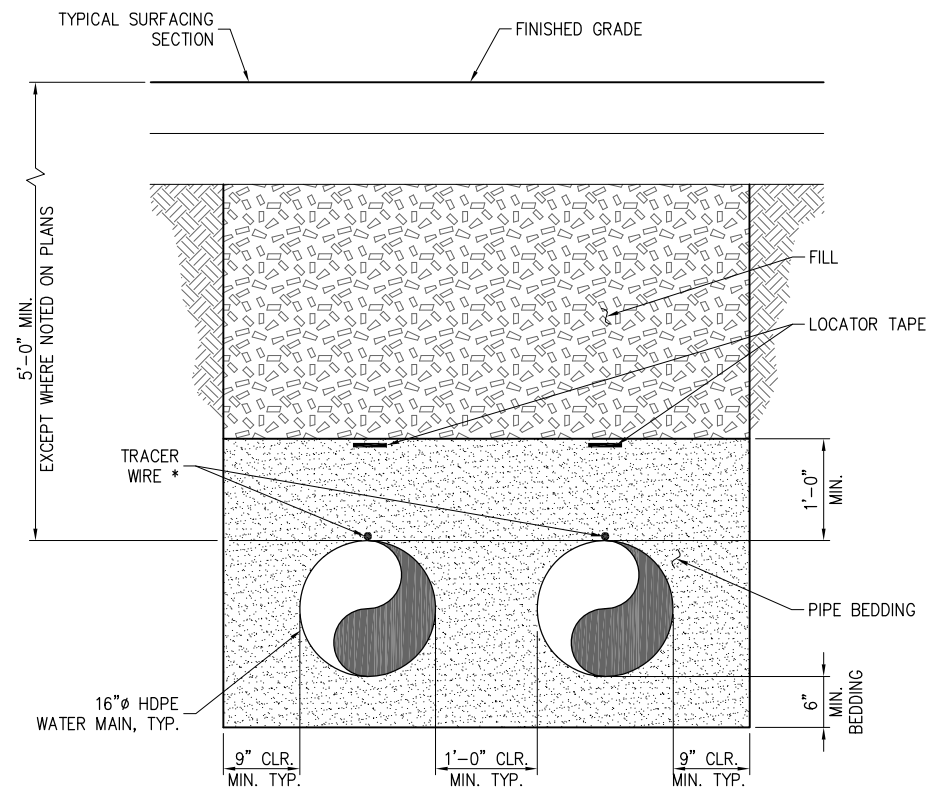
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		UTILITY PLAN AND PROFILE	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C4.01

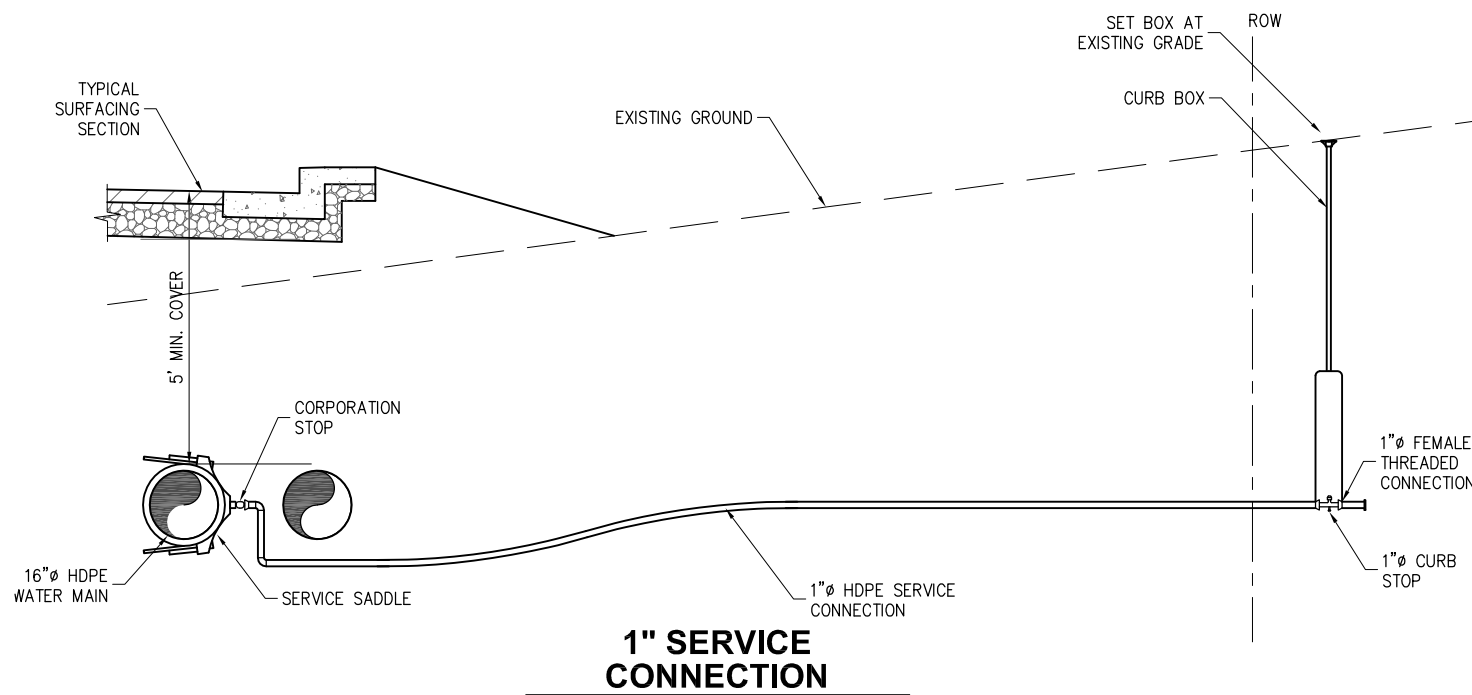
3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C4.01.dwg



**CULVERT OR
SANITARY SEWER CROSSING**

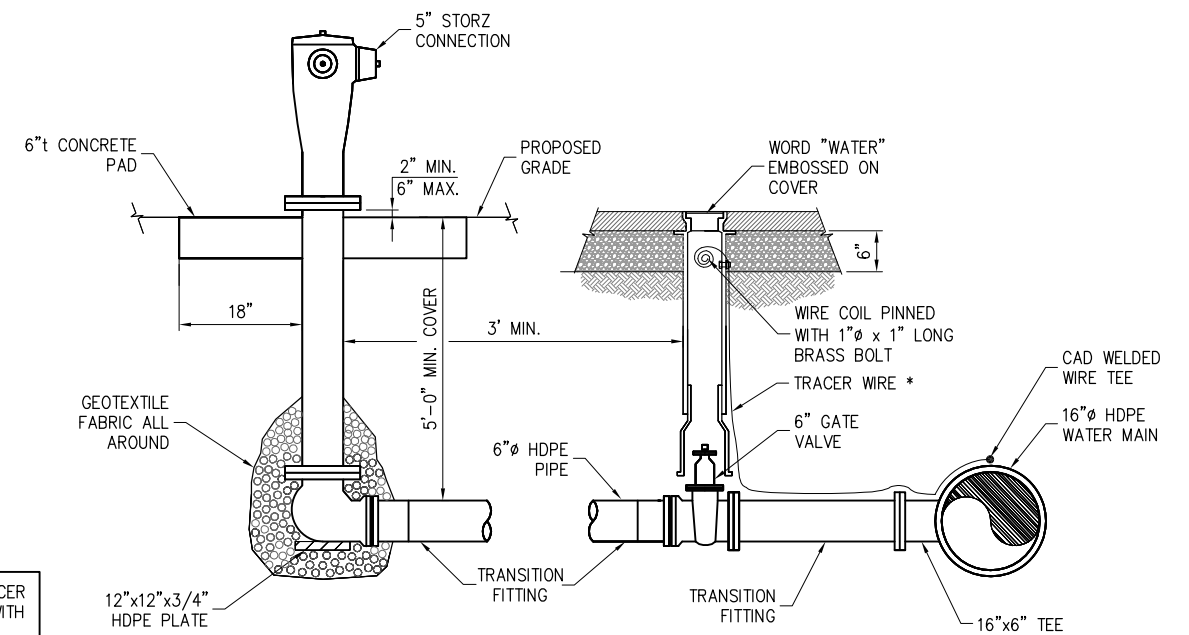


**TYPICAL
PIPE TRENCH**



**1" SERVICE
CONNECTION**

* INSTALL INSULATED No. 14 GAUGE, CONTINUOUS COPPER TRACER WIRE ALONG ENTIRE LENGTH OF WATER MAIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AT EACH VALVE BOX, CONNECT A BRANCH TRACE WIRE TO EXTEND TO THE SURFACE. DRILL HOLE IN VALVE BOX WITHIN 4-INCHES OF SURFACE AND COIL ENOUGH WIRE INSIDE OF EACH VALVE BOX TO EXTEND 12-INCHES ABOVE FINISHED GRADE.



HYDRANT ASSEMBLY

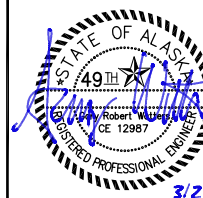
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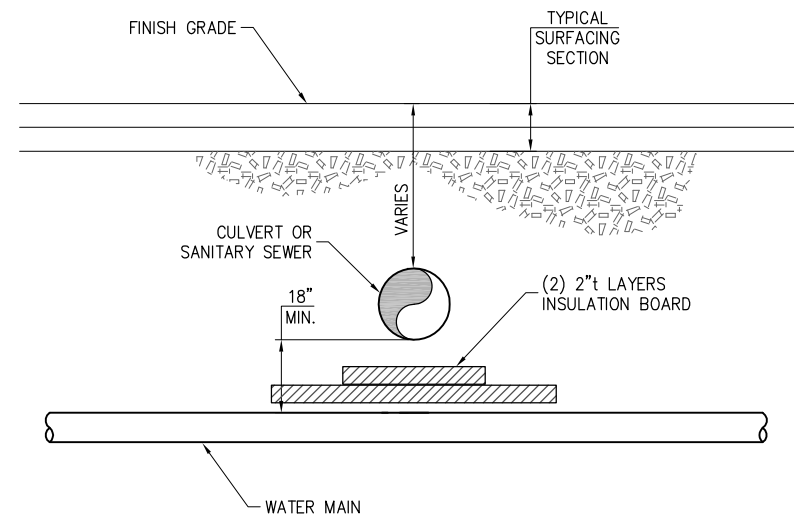


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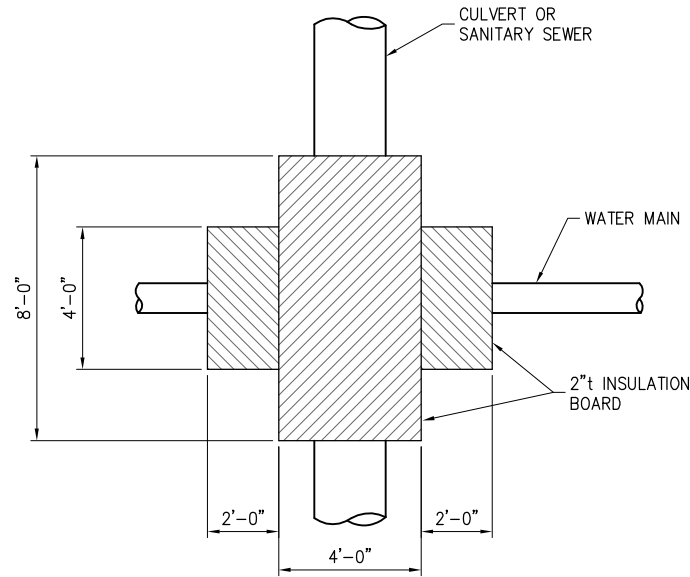


REVISIONS		
REV	DATE	DESCRIPTION

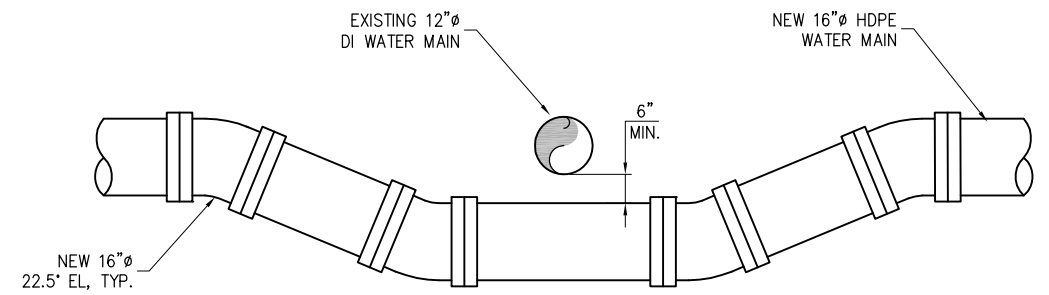
PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		WATER MAIN DETAILS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C4.02



STORMWATER CROSSINGS

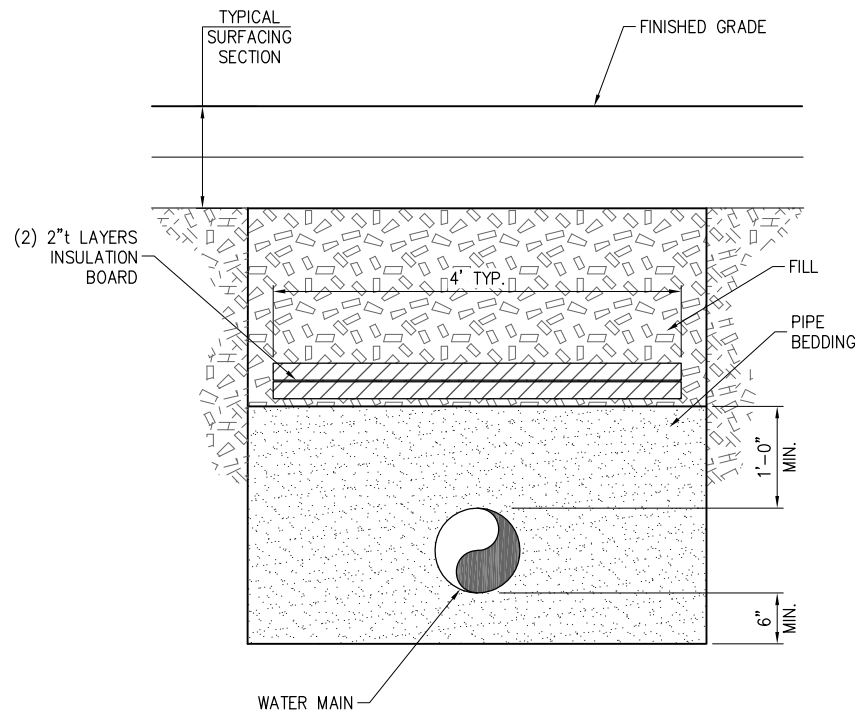


INSULATION PLAN



EXISTING WATER MAIN CROSSING

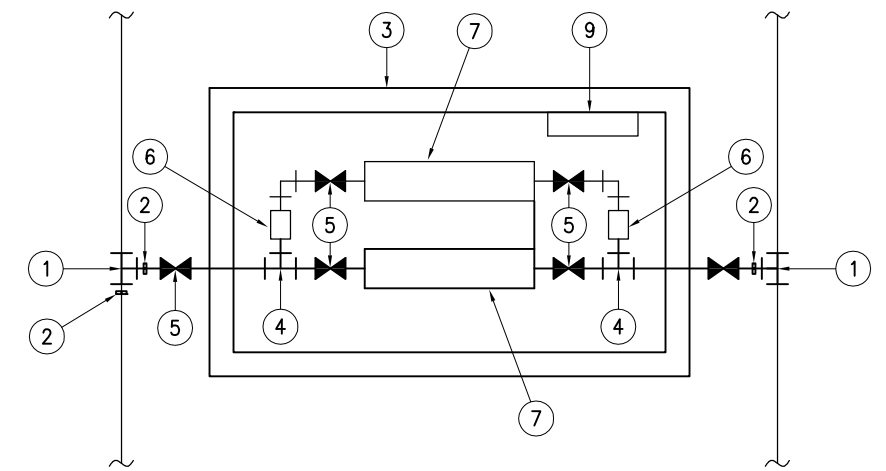
NOTE:
EXISTING 12" DI WATER MAINS TO BE DEMOLISHED, BUT ONLY AFTER THE NEW MAIN IS COMPLETELY INSTALLED



INSULATED TRENCHING
(IF LESS THAN 5' OF COVER)

UTILITY NOTES

- ① 16"x16" HDPE TEE (MJxMJ)
- ② 6" HDPE TO DI ADAPTER (FLxFL)
- ③ 10'x6' PRECAST VAULT
- ④ 6"x6" DI TEE (FLxFL)
- ⑤ 6" GATE VALVE (FLxFL)
- ⑥ SALVAGED LIQUID FILLED GAUGE REINSTALLED
- ⑦ SALVAGED 6" PRV REINSTALLED
- ⑧ THE BACKUP SYSTEM IS TO REMAIN IN EXISTING VAULT UNTIL THE NEW WATER MAIN IS IN SERVICE, THEN INSTALL IN THE NEW VAULT.
- ⑨ HEATER (SEE ELECTRICAL)



PLAN

PVR VAULT RELOCATION

FOR BID

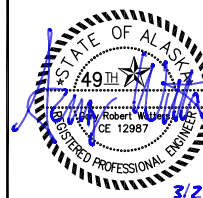
3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C4.03.dwg



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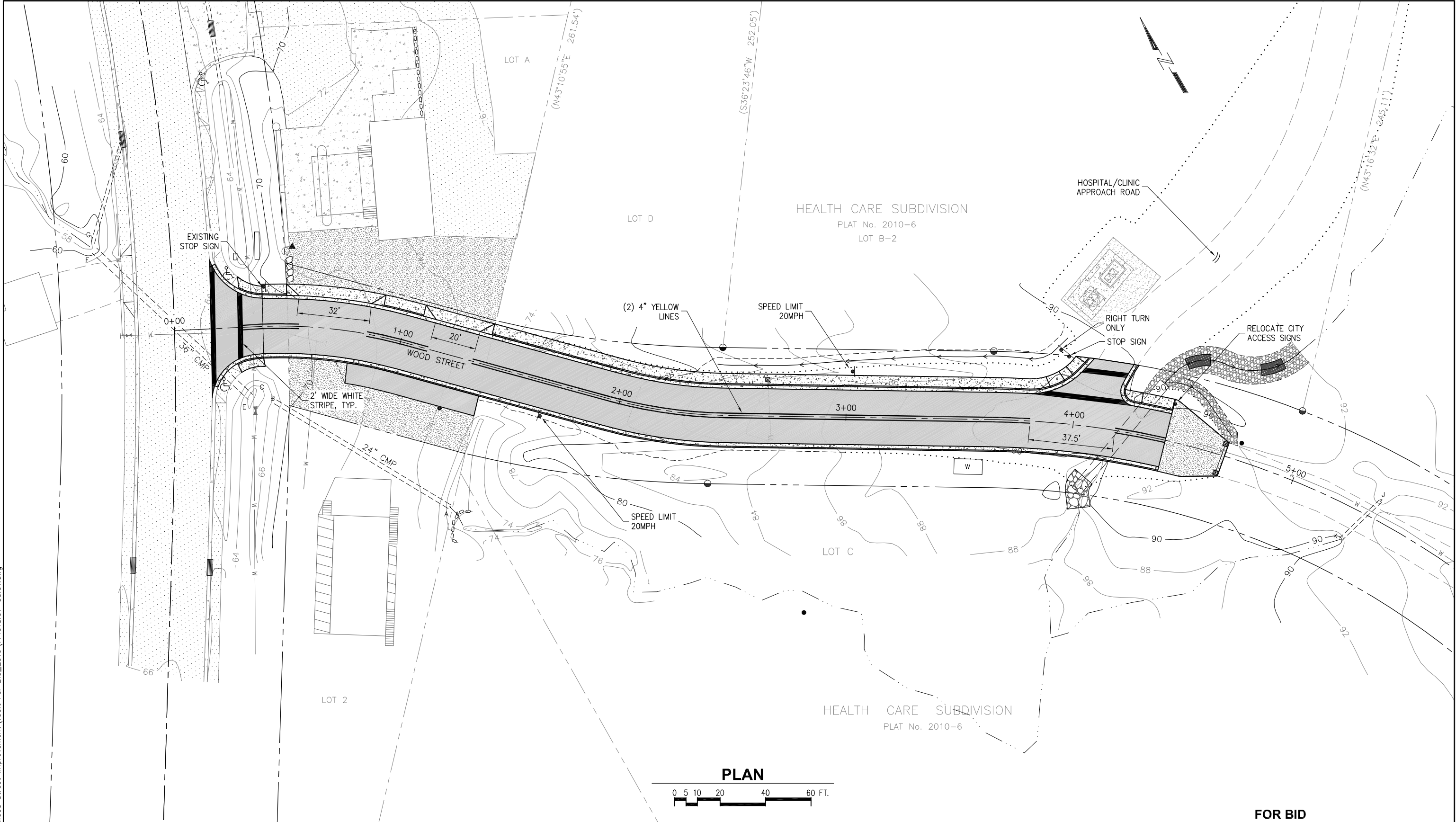
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		WATER MAIN DETAILS	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C4.03

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C5.01.dwg



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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		SIGNAGE AND STRIPING PLAN	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C5.01

NEW SIGN MOUNT PER
ADOT STD DWG S-00.10

NEW 1 1/2"
PERFORATED TUBING
INSTALL PER ADOT
STD DWG S-30.03

7'-0"
MIN.

TRAVELED
WAY VARIES 3'-0"
UNLESS SPECIFIED IN
TABLE REMARKS

NEW ROADWAY
SECTION

3'-0"
MIN.

MIN. 18"Ø
CONCRETE

SIGN INSTALLATION

FOR BID

**WOOD STREET
IMPROVEMENTS**

SIGNAGE AND STRIPING DETAILS

DESIGNED BY:	SR	PROJECT NO:	114018.01	SHEET NO:	C5.02
DRAWN BY:	DRH	DATE:	MARCH 2016		
CHECKED BY:	GW	SCALE:	NOTED		

REVISIONS

REV	DATE	DESCRIPTION

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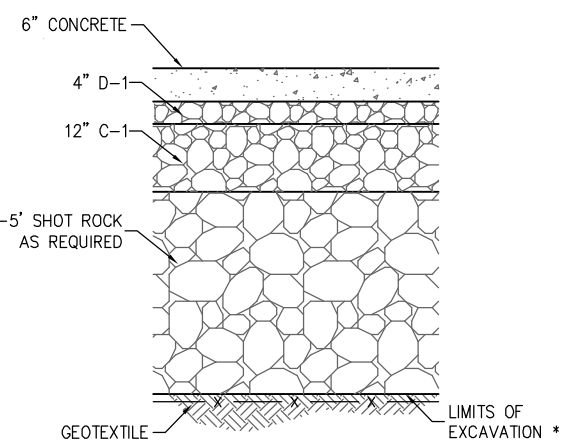
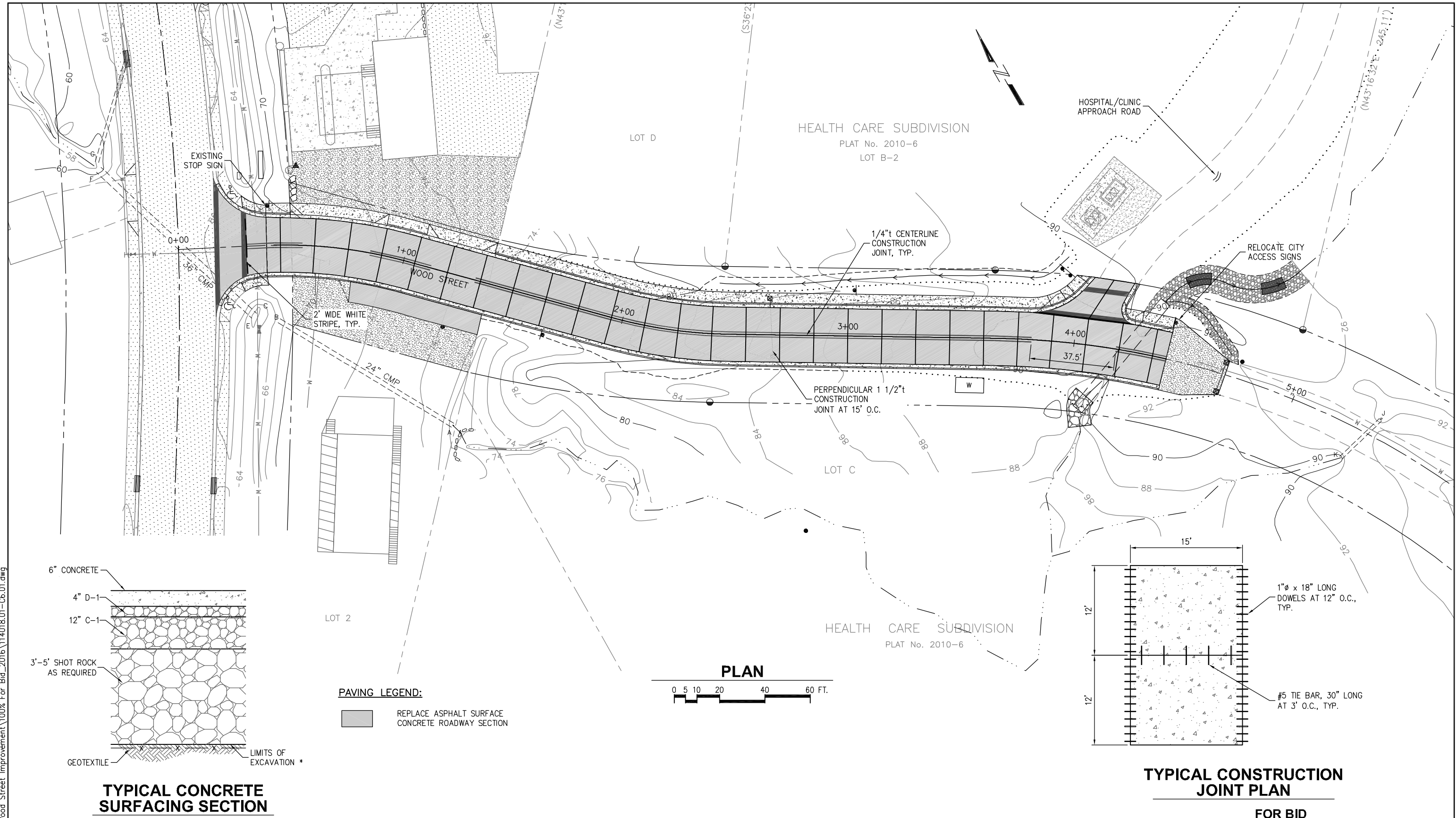


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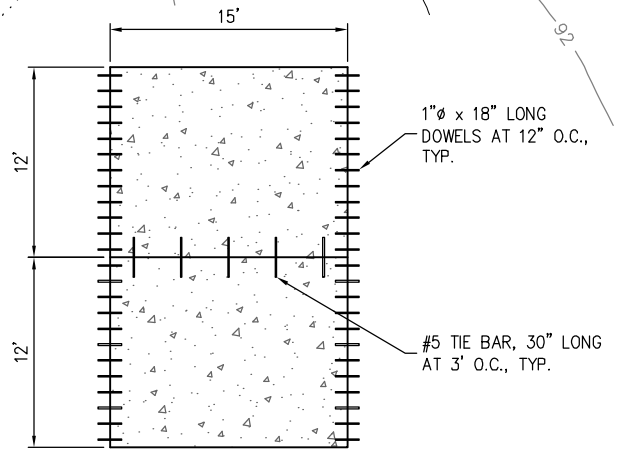
3/29/16 Drawings 2011\114018.01 - Wood Street Improvement\100% For Bid_2016\114018.01-C5.02.dwg

3/29/16 Drawings 2011\114018.01 - Wood Street Improvement 100% For Bid_2016\114018.01-C6.01.dwg



TYPICAL CONCRETE SURFACING SECTION

PAVING LEGEND:
 REPLACE ASPHALT SURFACE CONCRETE ROADWAY SECTION



TYPICAL CONSTRUCTION JOINT PLAN

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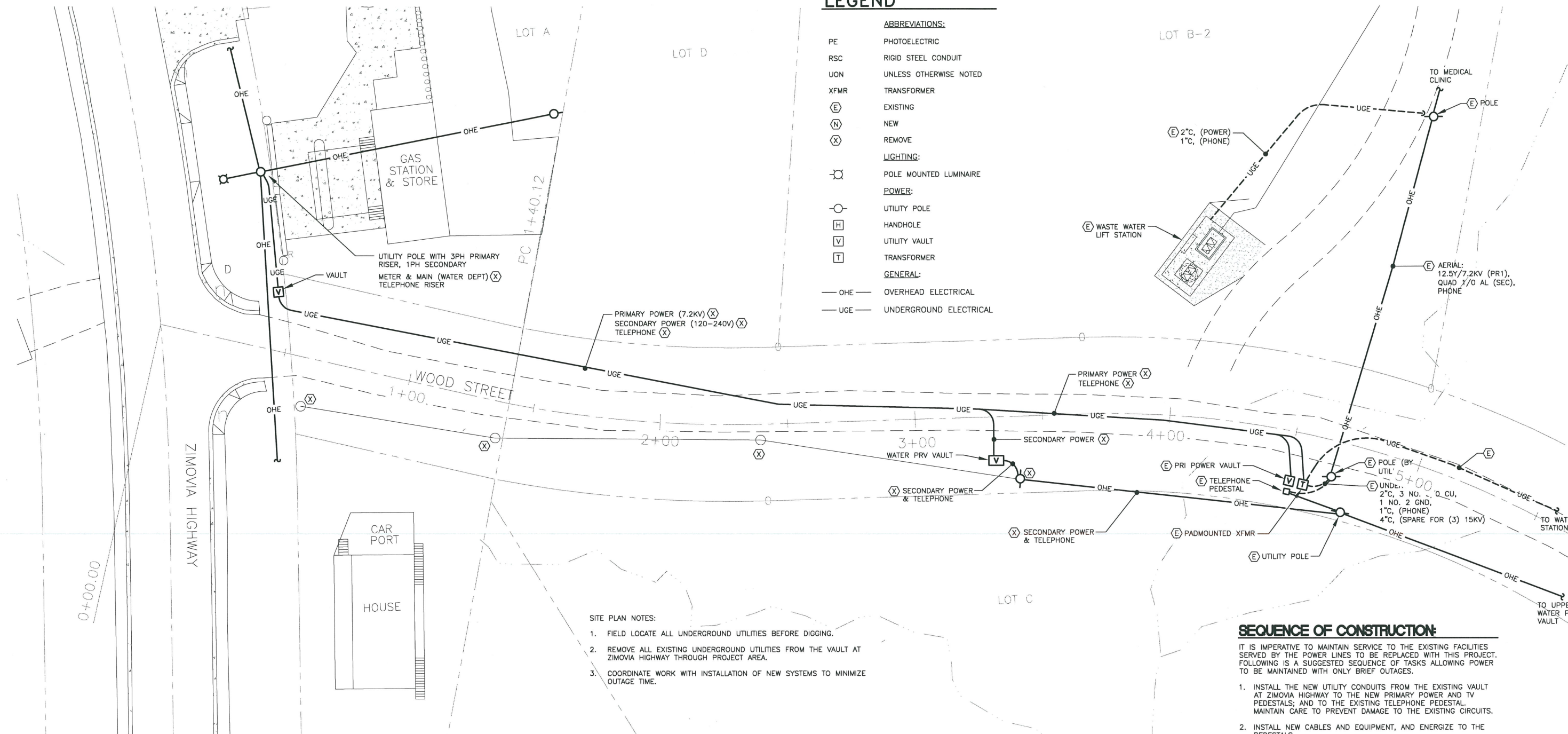


REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:		WOOD STREET IMPROVEMENTS	
TITLE:		CONCRETE PAVING ALTERNATE A PLAN	
DESIGNED BY:	SR	PROJECT NO:	114018.01
DRAWN BY:	DRH	DATE:	MARCH 2016
CHECKED BY:	GW	SCALE:	NOTED
SHEET NO:			C6.01

LEGEND

- ABBREVIATIONS:**
- PE PHOTOELECTRIC
 - RSC RIGID STEEL CONDUIT
 - UON UNLESS OTHERWISE NOTED
 - XFMR TRANSFORMER
 - (E) EXISTING
 - (N) NEW
 - (X) REMOVE
- LIGHTING:**
- (L) POLE MOUNTED LUMINAIRE
- POWER:**
- (U) UTILITY POLE
 - (H) HANDHOLE
 - (V) UTILITY VAULT
 - (T) TRANSFORMER
- GENERAL:**
- OHE — OVERHEAD ELECTRICAL
 - UGE — UNDERGROUND ELECTRICAL



- SITE PLAN NOTES:**
1. FIELD LOCATE ALL UNDERGROUND UTILITIES BEFORE DIGGING.
 2. REMOVE ALL EXISTING UNDERGROUND UTILITIES FROM THE VAULT AT ZIMOVIA HIGHWAY THROUGH PROJECT AREA.
 3. COORDINATE WORK WITH INSTALLATION OF NEW SYSTEMS TO MINIMIZE OUTAGE TIME.

- SEQUENCE OF CONSTRUCTION:**
- IT IS IMPERATIVE TO MAINTAIN SERVICE TO THE EXISTING FACILITIES SERVED BY THE POWER LINES TO BE REPLACED WITH THIS PROJECT. FOLLOWING IS A SUGGESTED SEQUENCE OF TASKS ALLOWING POWER TO BE MAINTAINED WITH ONLY BRIEF OUTAGES.
1. INSTALL THE NEW UTILITY CONDUITS FROM THE EXISTING VAULT AT ZIMOVIA HIGHWAY TO THE NEW PRIMARY POWER AND TV PEDESTALS; AND TO THE EXISTING TELEPHONE PEDESTAL. MAINTAIN CARE TO PREVENT DAMAGE TO THE EXISTING CIRCUITS.
 2. INSTALL NEW CABLES AND EQUIPMENT, AND ENERGIZE TO THE PEDESTALS.
 3. TRANSFER SERVICES FROM THE EXISTING CIRCUITS TO THE NEW CIRCUITS. COORDINATE WITH THE UTILITIES.
 4. REMOVE AND DISPOSE THE NOW ABANDONED CIRCUITS AND EQUIPMENT. COORDINATE WITH THE UTILITIES.
 5. COMPLETE INSTALLATION OF LIGHTING.
- CONFER WITH THE CUSTOMERS SERVED BY THESE UTILITIES, INCLUDING THE CELL TOWER AND WATER DEPARTMENT, TO DETERMINE OUTAGE AND SCHEDULE LIMITATIONS. COORDINATE OUTAGES ACCORDINGLY.
- PROVIDE DOCUMENTATION OF THIS CONSTRUCTION STRATEGY WITH DESIRED MODIFICATIONS TO THE PROJECT ENGINEER BEFORE CONSTRUCTION.

1 EXISTING SITE PLAN SCALE: 0 20' 40'

Apr. 17, 2013 - 11:32am F:\Projects\137 PN&D\88 Wood Street Road & Utility Improvements\Drawings\Working\E1.01.dwg (Layout Tab)



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Phone: 206-624-1387
Fax: 206-624-1388
mail@pndengineers.com

526 Main Street, Juneau, AK 99801
(907) 586-9788

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Apr 17, 2013

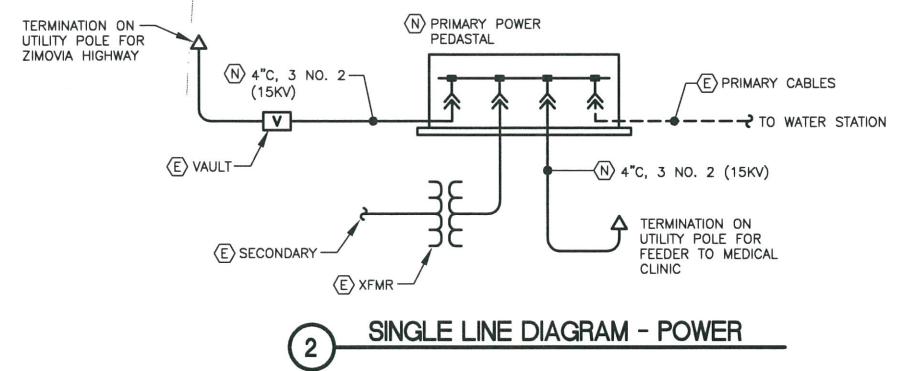
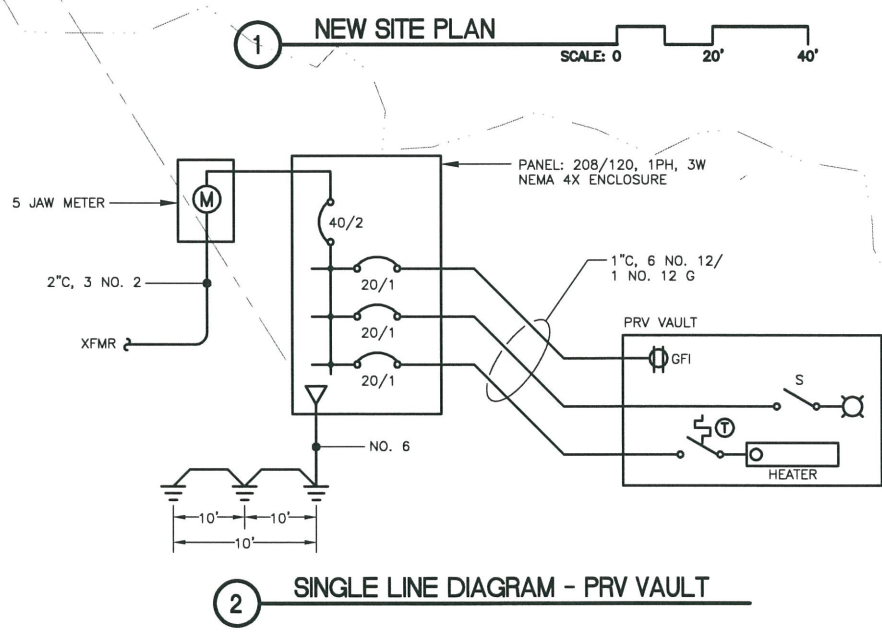
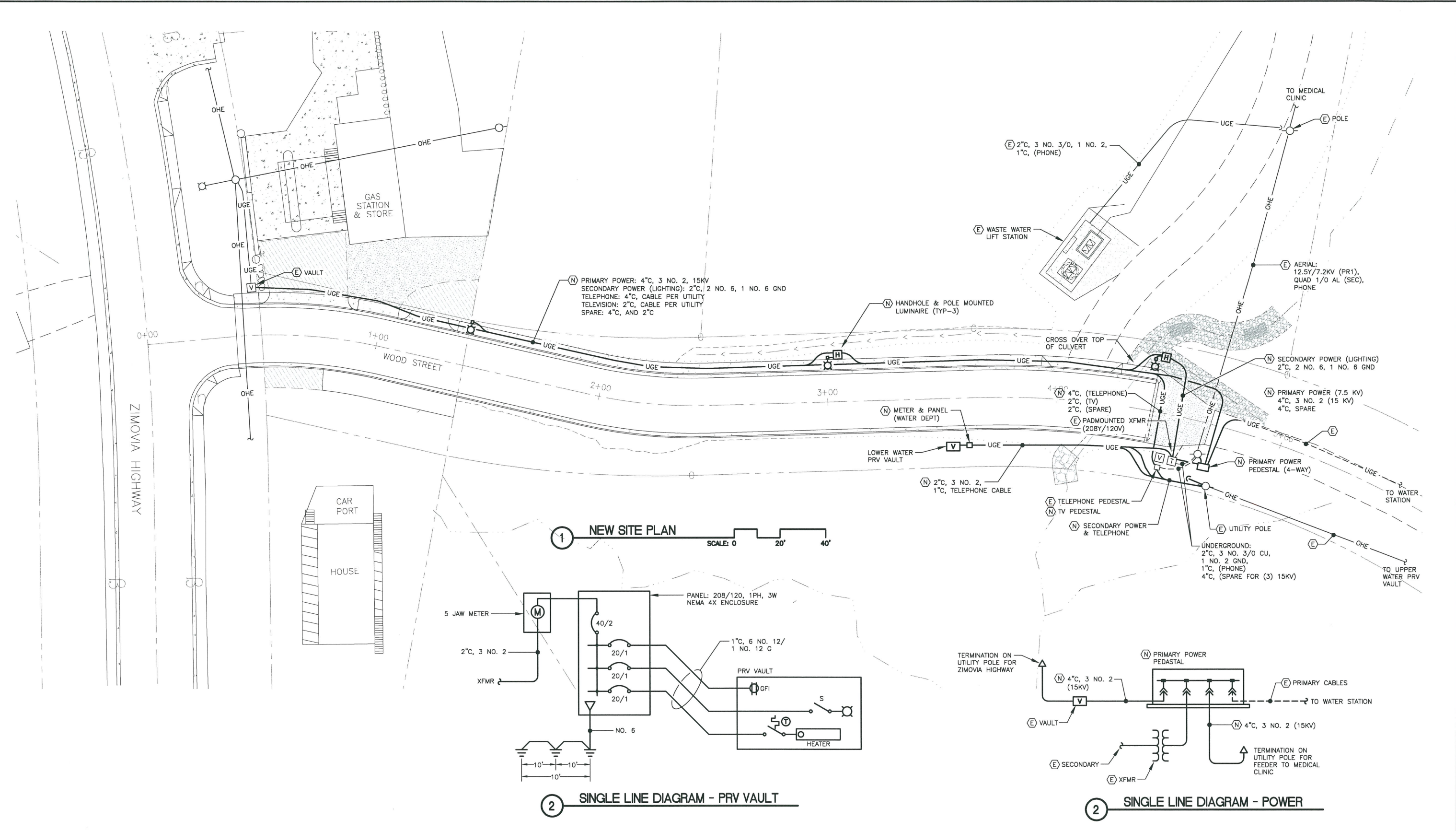
REVISIONS		
REV.	DATE	DESCRIPTION

PROJECT: **WOOD STREET IMPROVEMENT DESIGN**

TITLE: **EXISTING SITE PLAN - ELECTRICAL SYSTEMS**

DESIGNED BY: BCH	PROJECT NO: 114018.01	SHEET NO: E1.01
DRAWN BY: PEL	DATE: APRIL, 2013	
CHECKED BY: BCH	SCALE: NOTED	

Apr 17, 2013 - 11:32am F:\Projects\137 PH&D\WB Wood Street Road & Utility Improvements\Drawings\Working\E2.01.dwg (Layout tab)



1736 Fourth Avenue S., Suite A
Seattle, Washington 98134
Phone: 206-624-1387
Fax: 206-624-1388
mail@pndengineers.com



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REVISIONS		
REV.	DATE	DESCRIPTION

PROJECT: WOOD STREET IMPROVEMENT DESIGN			
TITLE: NEW SITE PLAN - ELECTRICAL SYSTEMS			
DESIGNED BY: BCH	PROJECT NO: 114018.01	SHEET NO: E2.01	
DRAWN BY: PEL	DATE: APRIL, 2013		
CHECKED BY: BCH	SCALE: NOTED		

