

SOUTHPORT WATER MAIN EXTENSION & AIRPOINTE BUSINESS PARK

ALL UTILITY PATCH WORK IN THE CITY RIGHT-OF-WAY WILL BE TO RAISE THE UTILITIES AND MONUMENTS PRIOR TO THE PLACEMENT OF ASPHALT. IF THE CONTRACTOR/DEVELOPER CHOOSE NOT TO RAISE THE UTILITIES AND MONUMENT PRIOR TO PAVING, THEY WILL BE REQUIRED TO SAW CUT A ROUND HOLE AROUND THE UTILITIES, AND RAISE THE UTILITY FLUSH WITH THE STREET SURFACE. THE AREA AROUND THE UTILITY WILL BE PATCHED WITH CONCRETE PER THE APPROVED CITY STANDARDS.

D 2 J, INC.
LEWISTON, ID 83501

I, hereby certify that the PROJECT DRAWINGS were prepared by me or under my direct supervision and that I am a duly registered Engineer under the laws of the State of Idaho.

Professional Engineer's Lic. #6978
Terry W. Nab, P.E.

Terry Nab
Date: Oct. 17, 2011

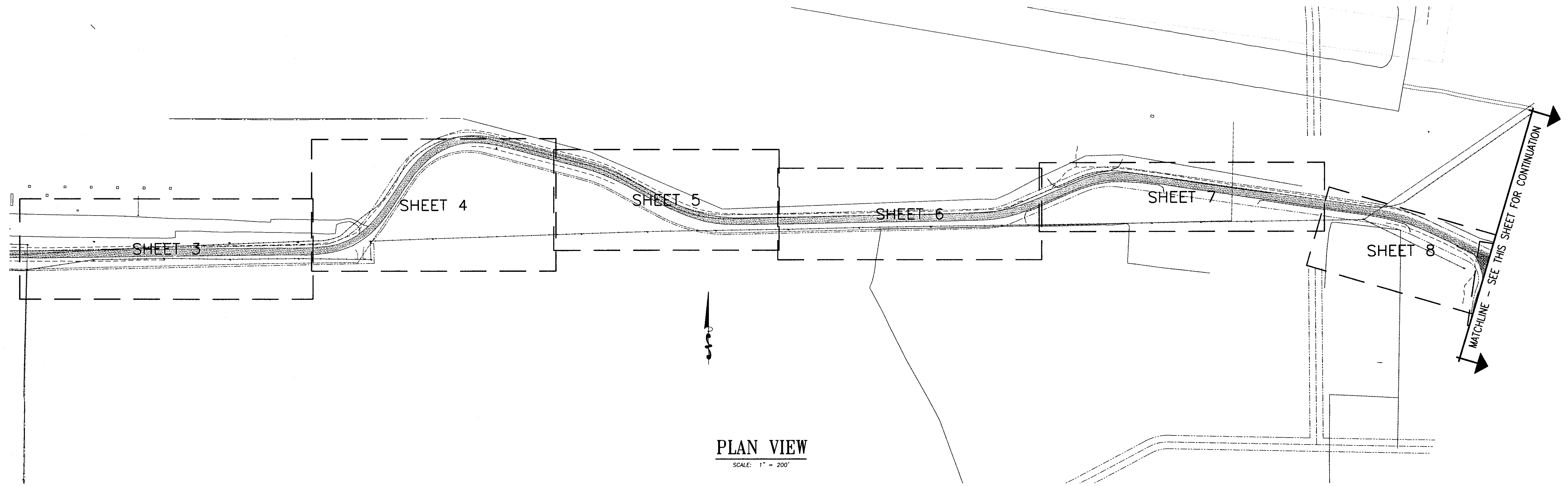
**PROGRESSIVE
ENGINEERING GROUP, INC**

PLANNING DESIGN CONSTRUCTION MANAGEMENT

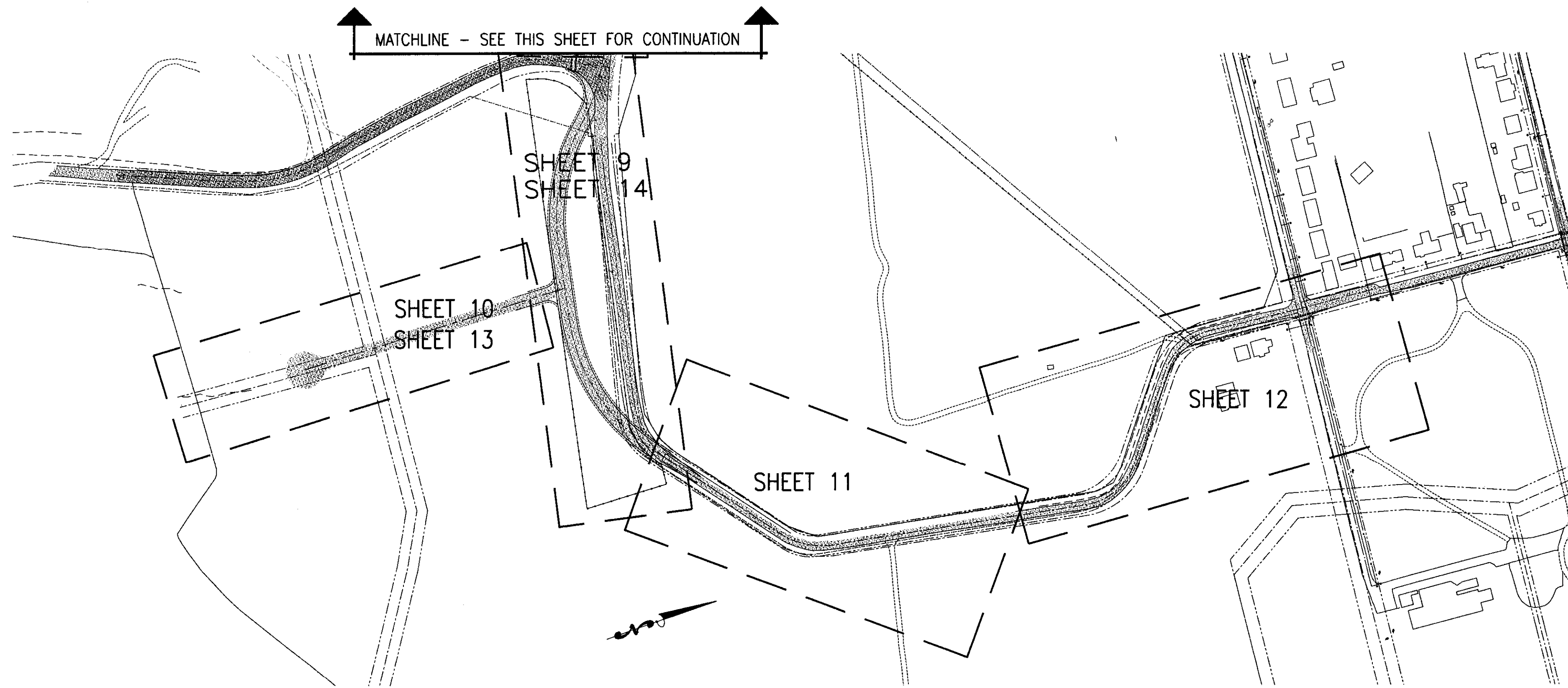
1208 IDAHO STREET
LEWISTON, IDAHO 83501
PH (208) 746-5406 FAX (208) 746-9732

CITY OF LEWISTON INSPECTION LIST

ITEM	MATERIAL	FREQUENCY	STANDARD	INSPECTOR/CO.	DATE	INITIAL
1. SOILS COMPACTION (All Utility Trenches)						
TRENCH SUBBASE	Native	1/200/4" Compacted L/H				
PIPE BEDDING	3/4" minus Crushed Aggregate	1/200/4" Compacted L/H	95% Per ASTM D-1557			
1ST 1" OF FILL OVER PIPE	3/4" minus Crushed Aggregate	1/200/12" Compacted L/H	95% Per ASTM D-1557			
TRENCH BACKFILL						
NEW CONST. Under Prop Road	Native, Max Agg NTE 4" MSD	1/200/8" Compacted L/H	95% Per ASTM D-1557			
NEW CONST. In Easement/Non-Trafficked Area	Native, Max Agg NTE 4" MSD	1/200/8" Compacted L/H	92% Per ASTM -1557			
TRENCH BACKFILL, Exist Road						
CUT PARALLEL TO CL	Native, Max Agg NTE 4" MSD	1/200/8" Compacted L/H	95% Per ASTM D-1557			
CUT PERP TO CENTERLINE	3/4" minus Crushed Aggregate	1/Perp Cut	95% Per ASTM D-1557			
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer	As Spec'd by Engineer			
2. STORM DRAIN MAINS						
Gasketed PE Storm Sewer Pipe	Polyethylene, ADS N-12 or Equal					
ALIGNMENT AND GRADE	N/A	Per Plan	Per Manufacturer's Instructions			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	Per Manufacturer's Instructions			
PRESSURE TEST	N/A	Between Access Holes	4 PSI for 15 Minutes, 1/2 PSI Drop			
MANHOLES	Concrete	N/A	City Std			
3. WATER MAINS						
Ductile Iron or PVC Water Main	AWWA C-151, C-900, C-905 (Class as Req'd)					
ALIGNMENT AND GRADE	N/A	Per Plan	AWWA C-600, AWWA C-605			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	AWWA C-600, AWWA C-605			
THRUST BLOCKS	Concrete, 2500 PSI Mix	Each Joint	Per Plan/Std Dwg			
HYDROSTATIC PRESSURE	N/A	150K Working Pressure @ Low Point	2 Hrs. NTE Allowable Leakage Per AWWA C-600, AWWA C-605			
CHLORINATION/BACTERIA	N/A	2 Consecutive Passing Tests, 24 Hours Apart	AWWA C-651	CITY OF LEWISTON		
4. SEWER MAINS						
PVC Sewer Main	PVC, SDR35	N/A	ASTM 3034			
ALIGNMENT AND GRADE	N/A	Per Plan	N/A			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Each Joint	Per Manufacturer's Instructions			
MANHOLES	Concrete	Each Joint	Hydrostatic Test			
PRESSURE TEST	N/A	Between Access Holes	4 PSI for 15 Minutes, 1/2 PSI Drop			
VIDEO INSPECTION	N/A	Between Access Holes	No Perforations, Dents, or Dimples >0.02			
5. CONCRETE CURB, GUTTER, AND SIDEWALK						
CONCRETE	3500 PSI Concrete w/MRA and AEA	Strength, Slump, Air & Cylinders, 1 Test/50 CY or Min 1 Test Daily	ASTM 1-22, 1-23, 1-119, 1-152, T-309, & WACIT TM-2			
ALIGNMENT AND GRADE	N/A	Per 10' Section	±0.02' from Design Grade/Alignment			
JOINTS/FLATNESS/STRAIGHTNESS	N/A	Per 10' Section	±0.02'/10' Segment			
FINISH	N/A	All	Flooded, Uniform, Light Broom Finish			
6. ASPHALTIC CONCRETE PAVING						
Hot Mix Asphalt	ITD Class II (3/4" or 1/2") App'd Mix Design		ITD Spec. Sec 405			
Aggregate	Per ITD Spec/App'd Mix Design	1/750 Ton, Min 1 Test	ITD Spec. Sec 703			
Density	92% of Rice Density/App'd Mix Design	1/500 LF, Min 2 Tests	ASTM D-1556			
7. Erosion & Sediment Controls						
	Per Plan	1/Wk of After Every Rainfall	Per Plan and Manufacturer's Instructions			
8. Traffic Control						
	Per Plan	Continuous	MUTCD/ATSSA			
9. Record Drawings						
	AutoCAD Elec File, Bond Paper, 22" x 34" Min size	Before Public Improvements Accepted	City Checklist			

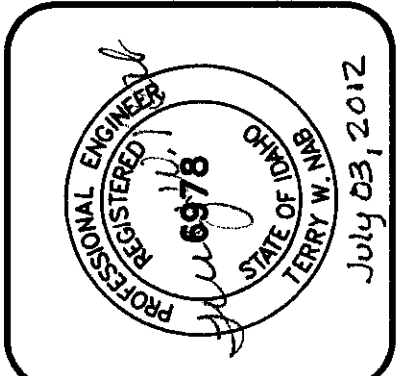


PLAN VIEW
SCALE: 1" = 200'



PLAN VIEW
SCALE: 1" = 200'

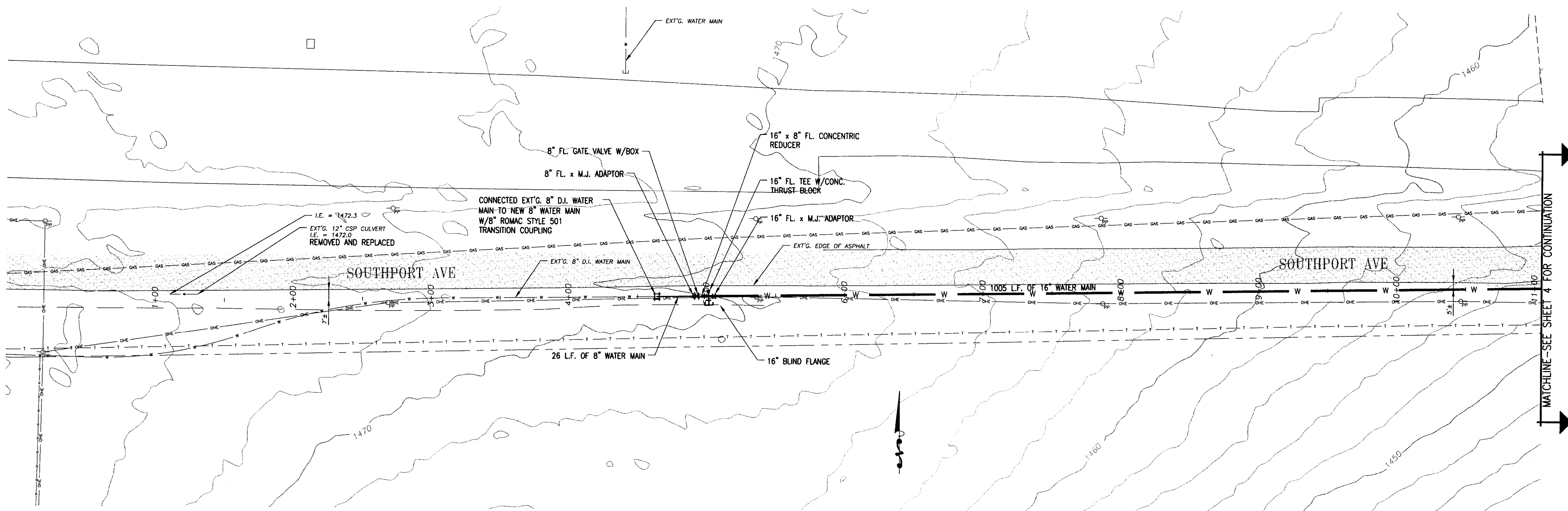
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NO.	DATE	BY	



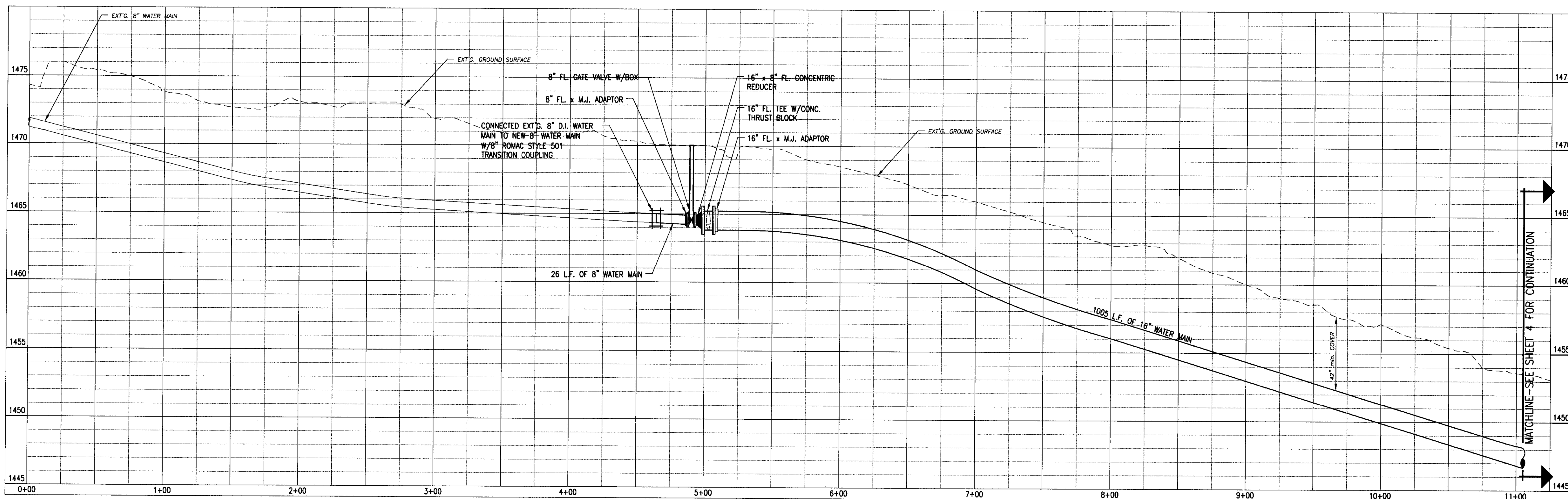
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D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 SHEET LAYOUT
 LEWISTON, IDAHO 83501

DRAWN BY:	CHECKED BY:
WRE	TWN
DESIGNED BY:	TWN
DATE:	02/23/11
LAST REV:	
PROJECT NO.:	08-005
SHEET 2	OF 17

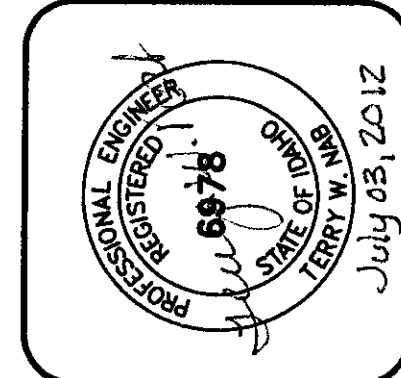


PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

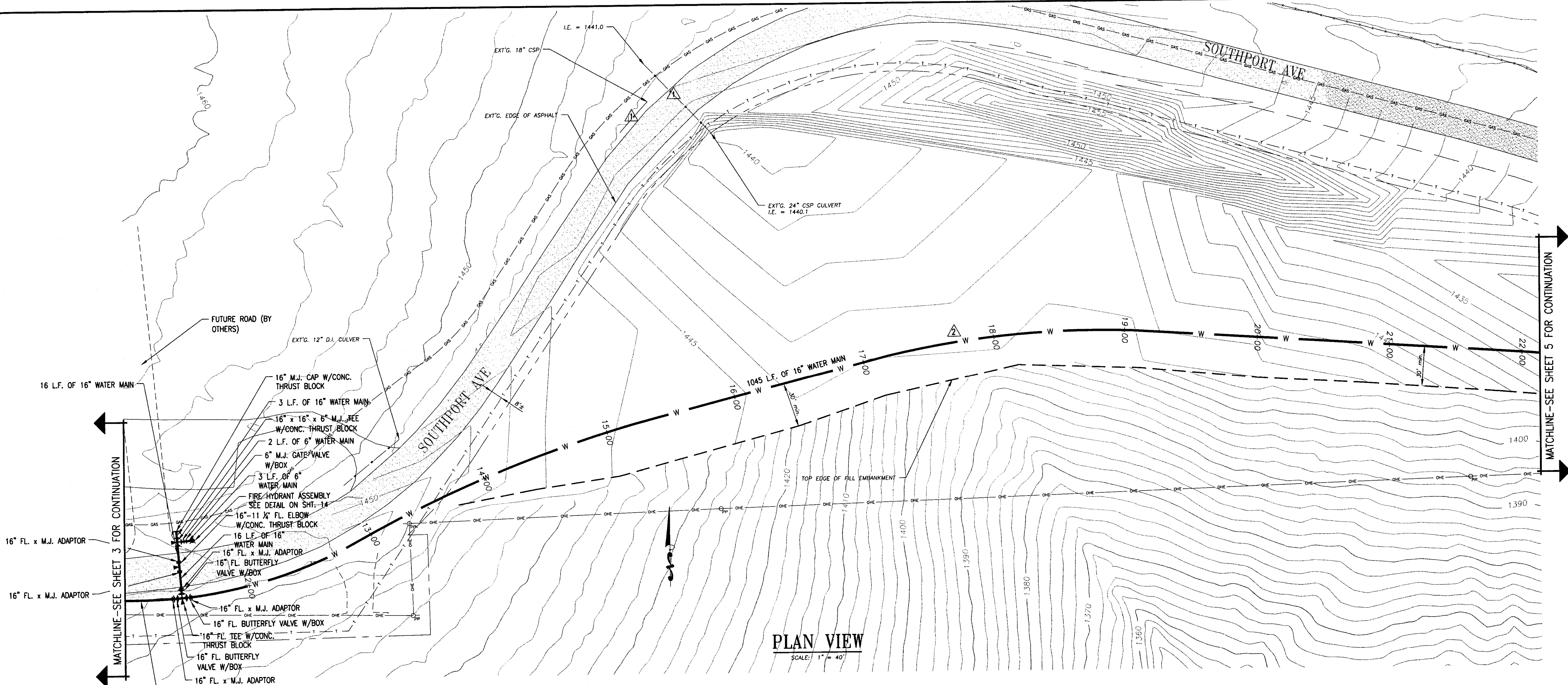
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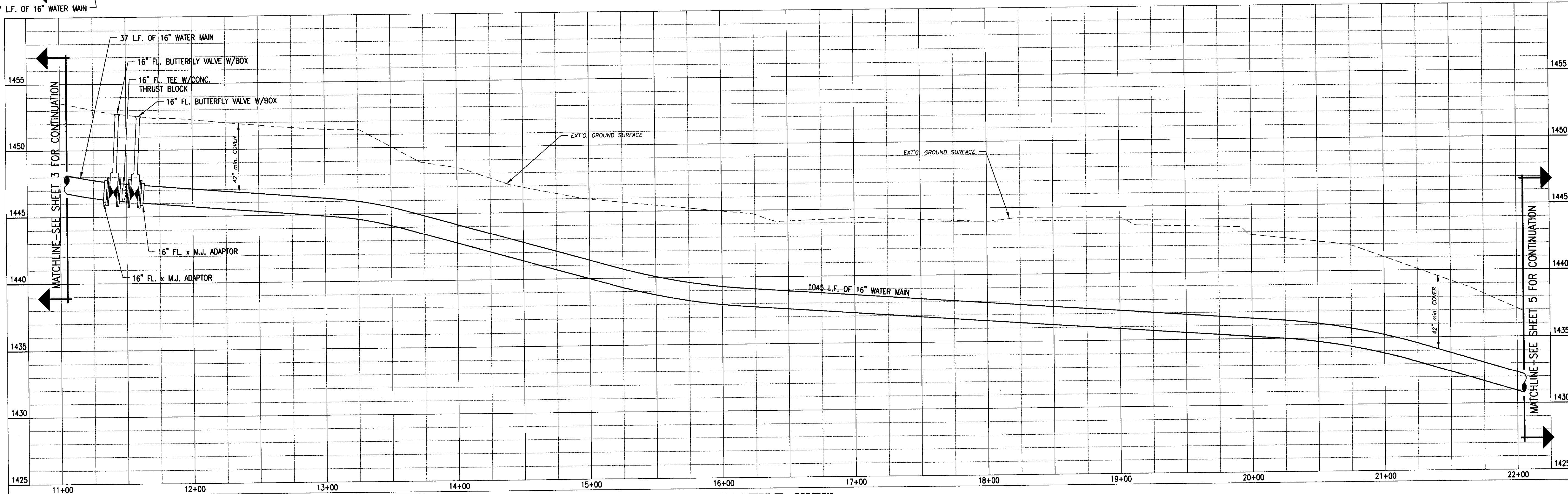
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D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK.
 STA. 0+00 TO STA. 11+05
 LEWISTON, IDAHO 83501

DRAWN BY: MVR	CHECKED BY: TWN
DESIGNED BY: TWN	
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LAST REV:	
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SHEET 3 OF 17	



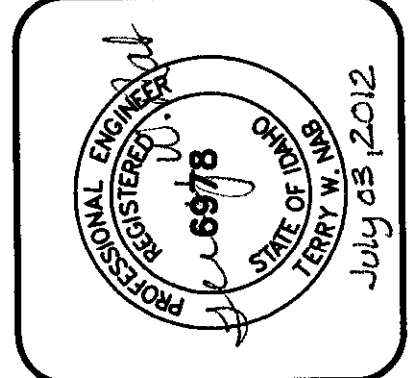
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SCALE: 1" = 40'



PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

RECORD DRAWING 06/21/12

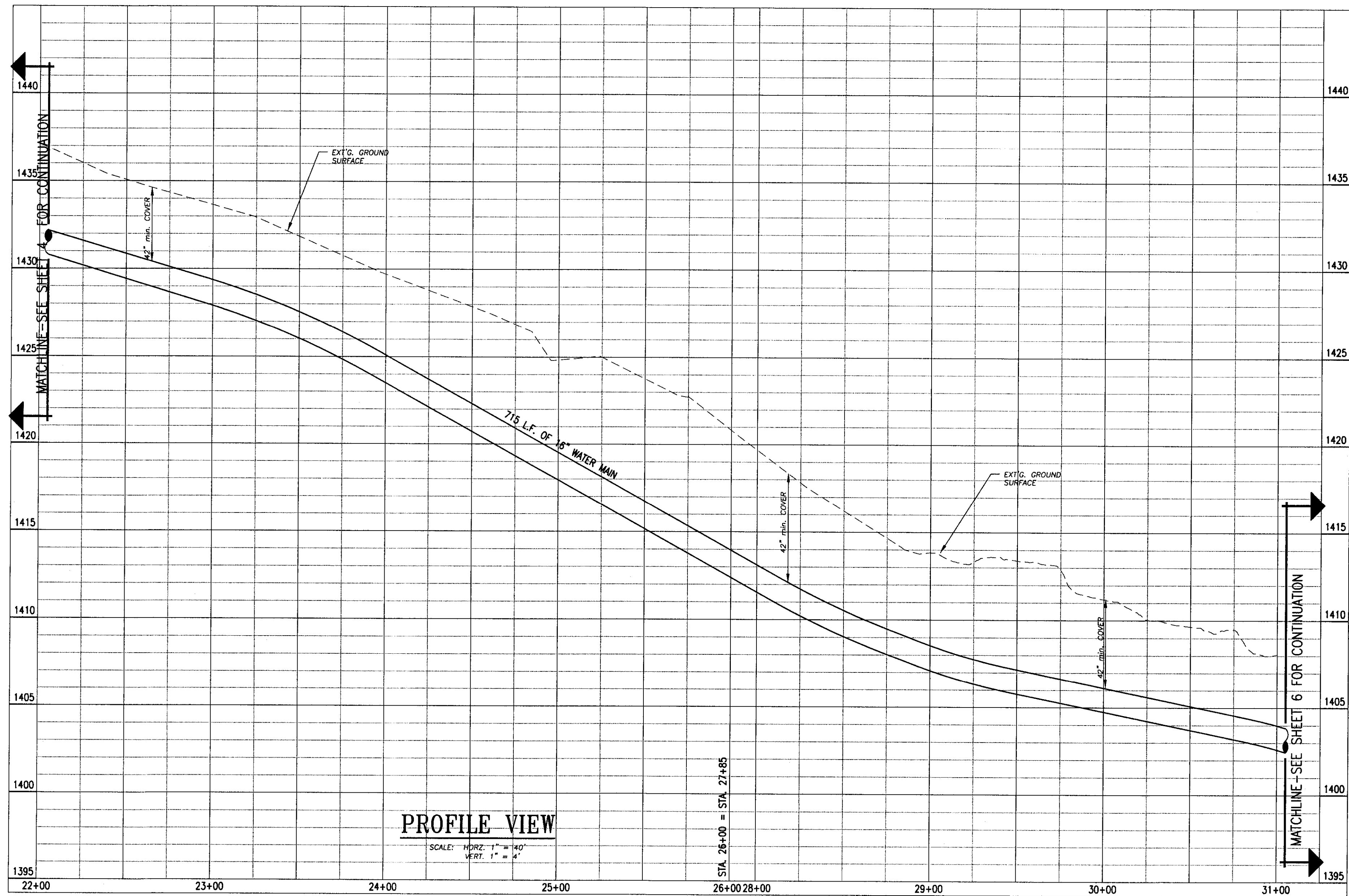
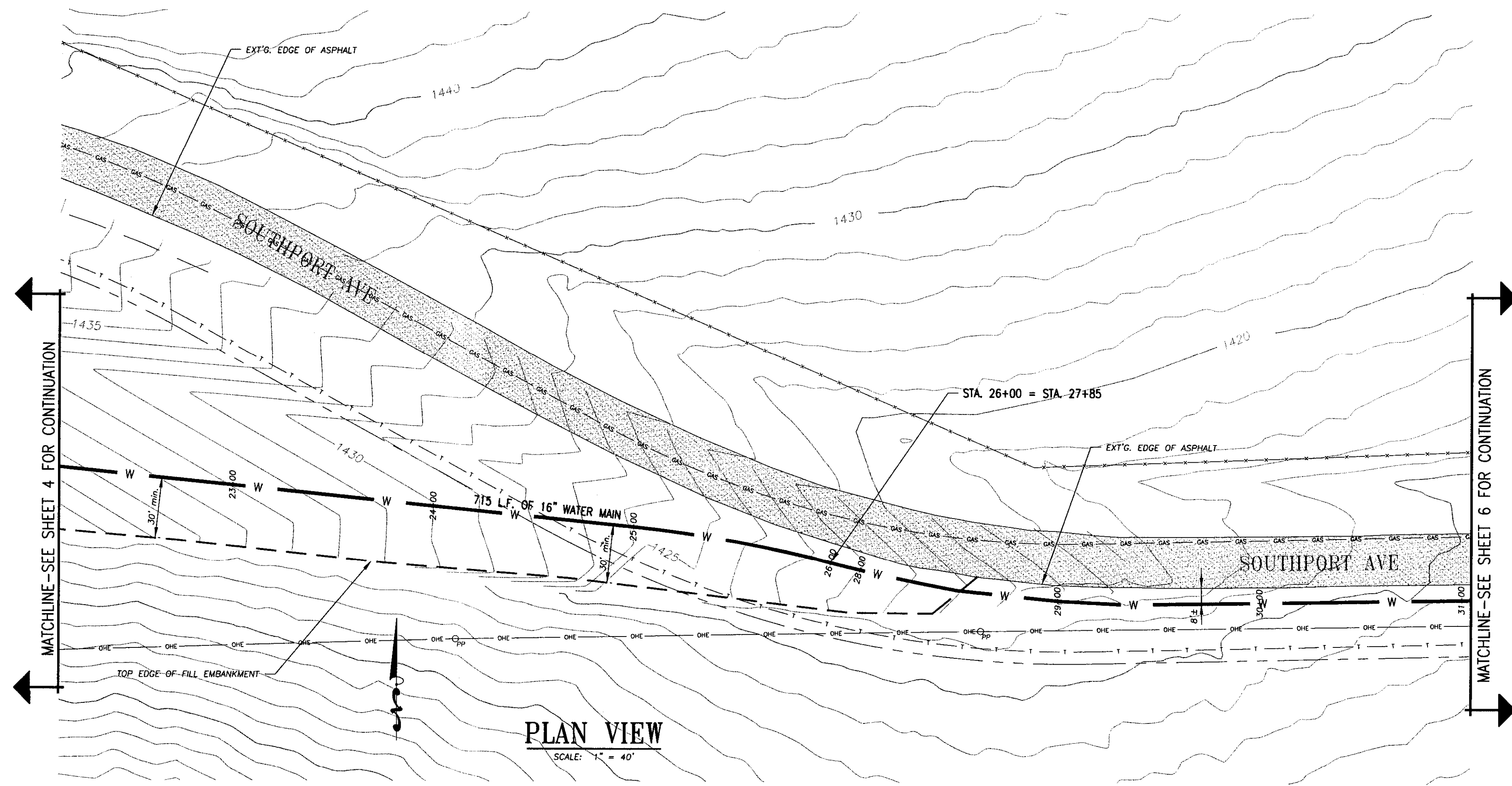
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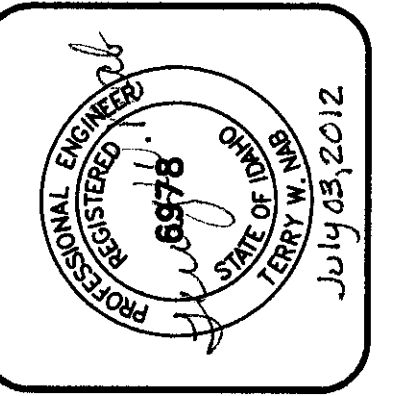
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 AIRPOINTE BUSINESS PARK
 STA. 11+05 TO STA. 22+05
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PROJECT NO: 08-005	
SHEET 4 OF 17	



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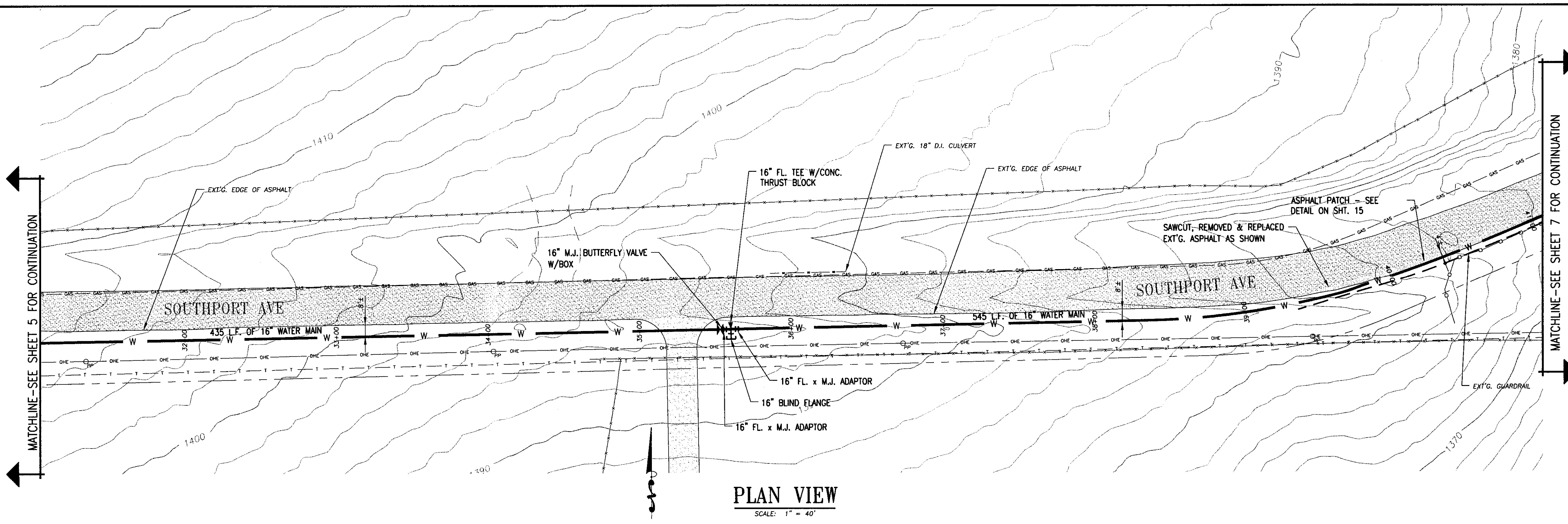
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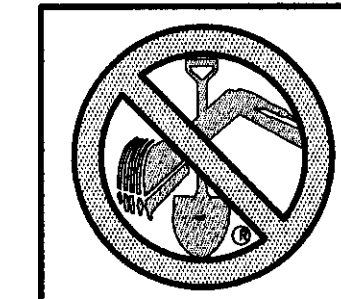
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 STA. 22+05 TO STA. 31+05
 LEWISTON, IDAHO 83501

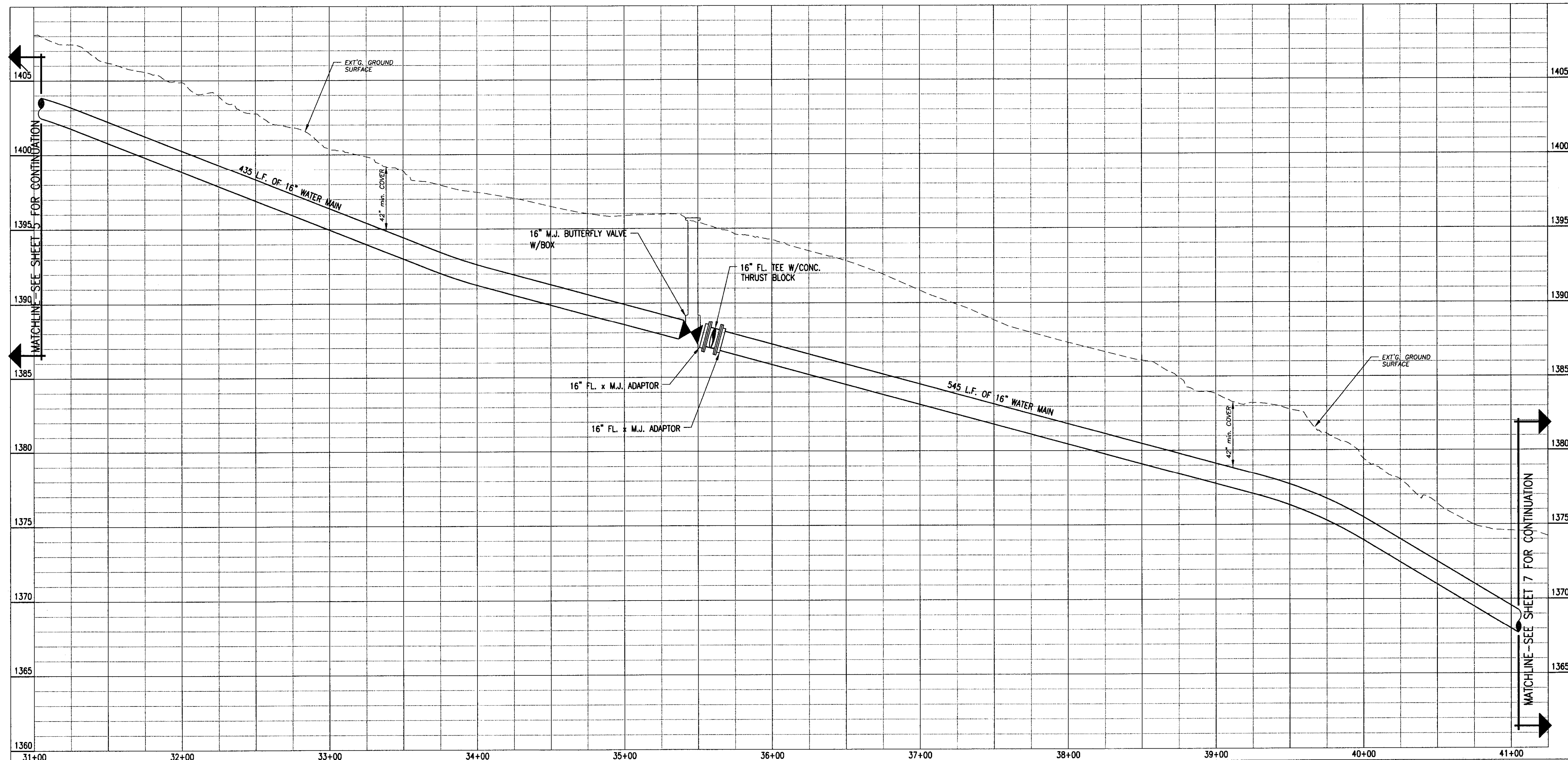
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SHEET 5 OF 17	



PLAN VIEW
SCALE: 1" = 40'



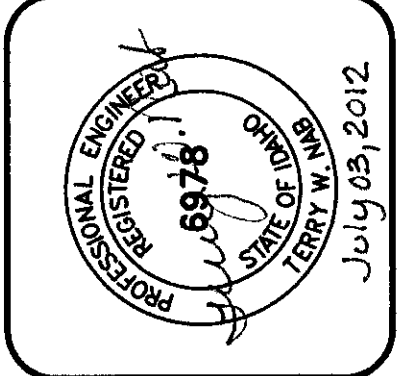
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PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

RECORD DRAWING 06/21/12

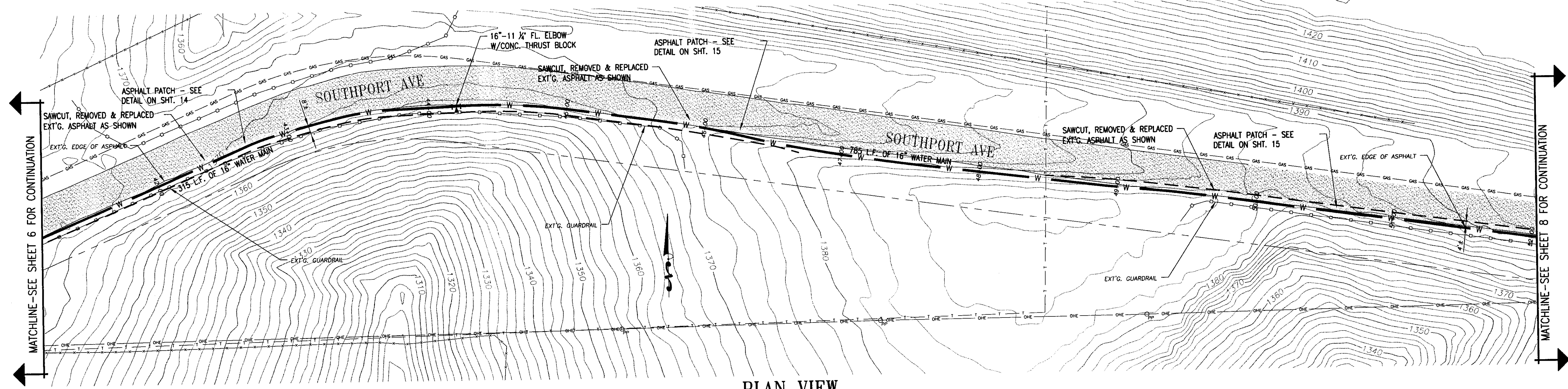
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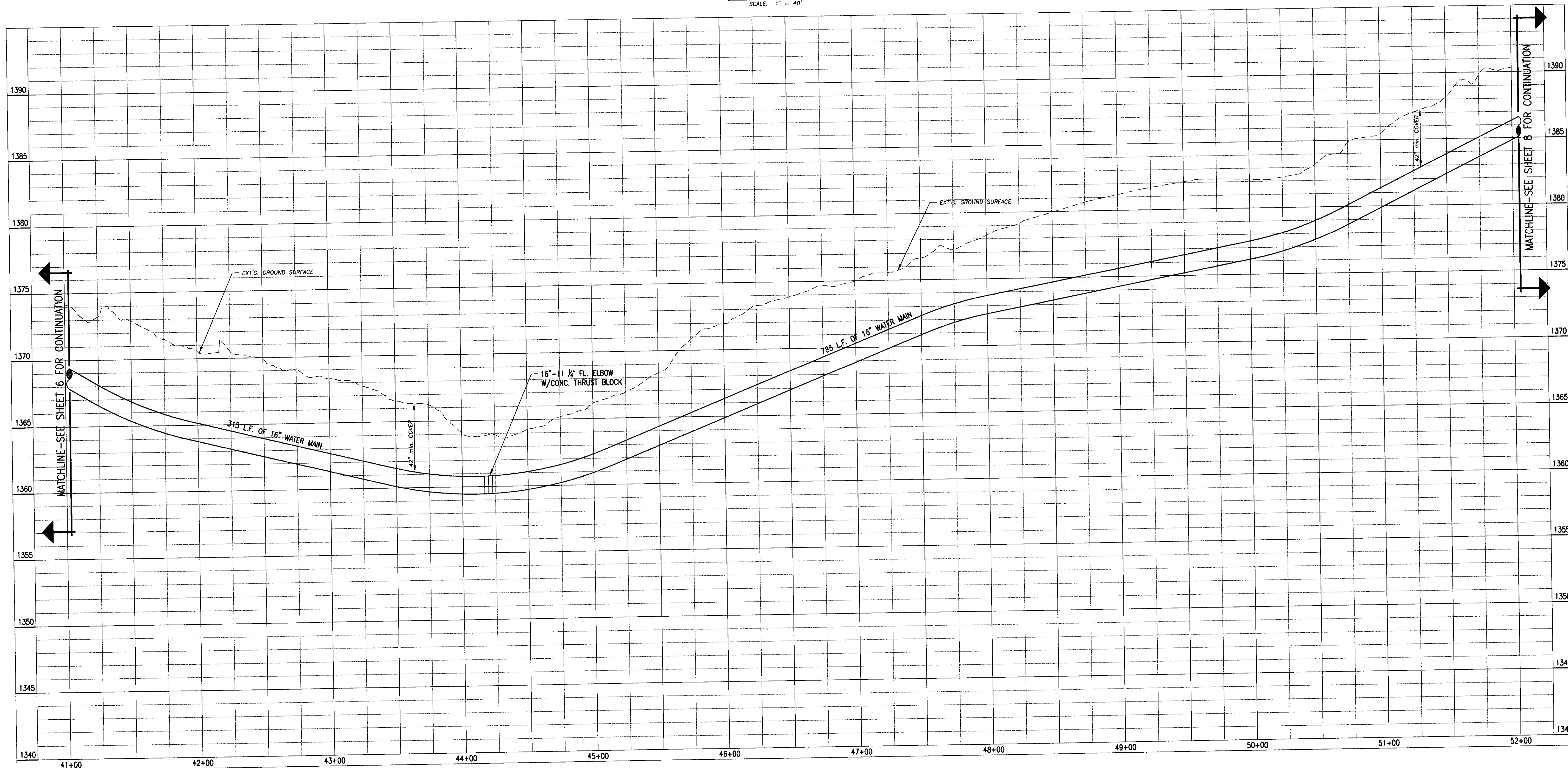
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SOUTHPORT WATER MAIN EXTENSION
AIRPORTE BUSINESS PARK
STA. 31+05 TO STA. 41+05
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SHEET 6	OF 17



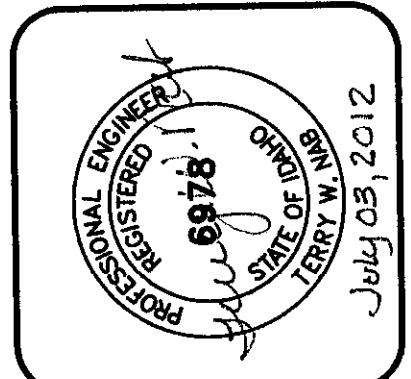
PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

RECORD DRAWING 06/21/12

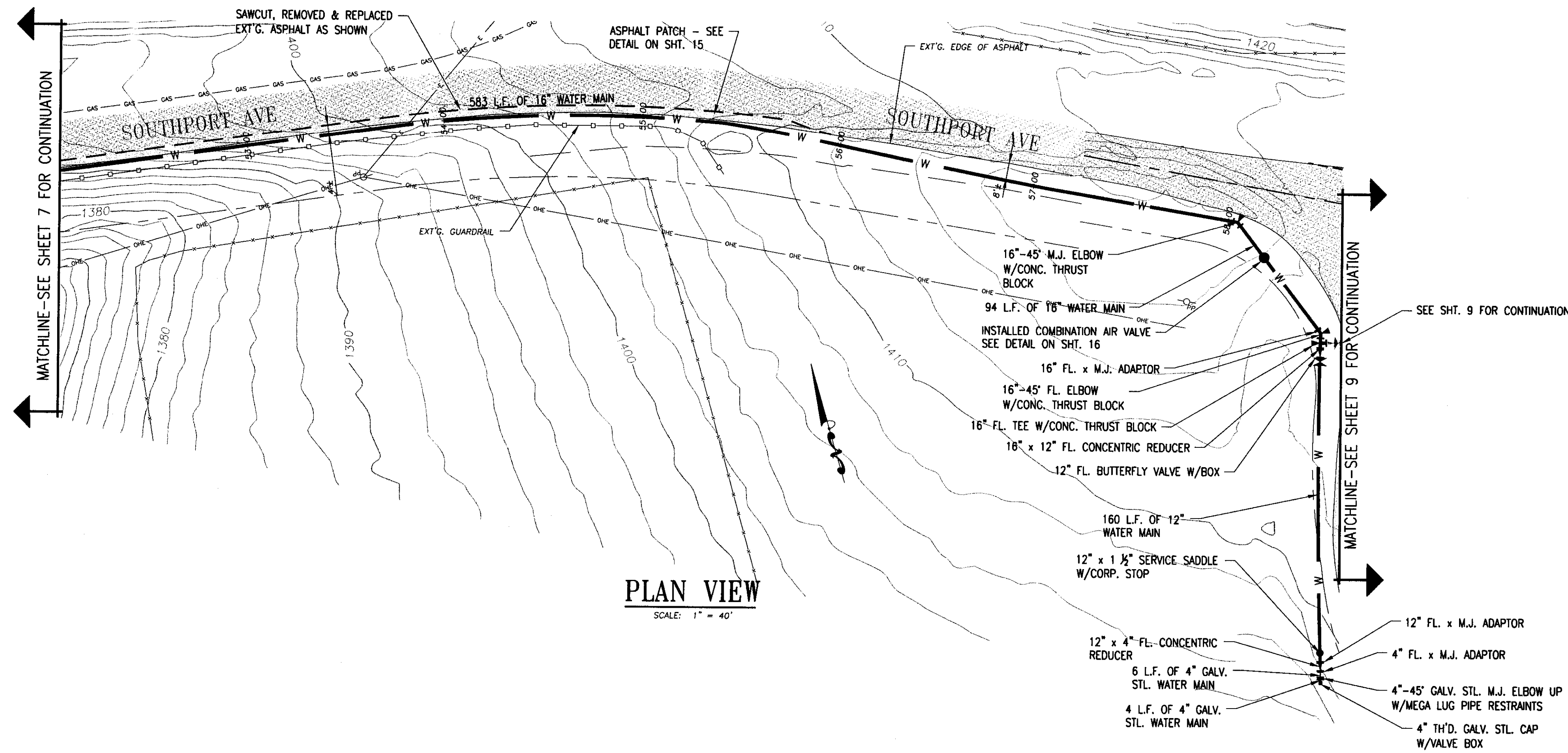
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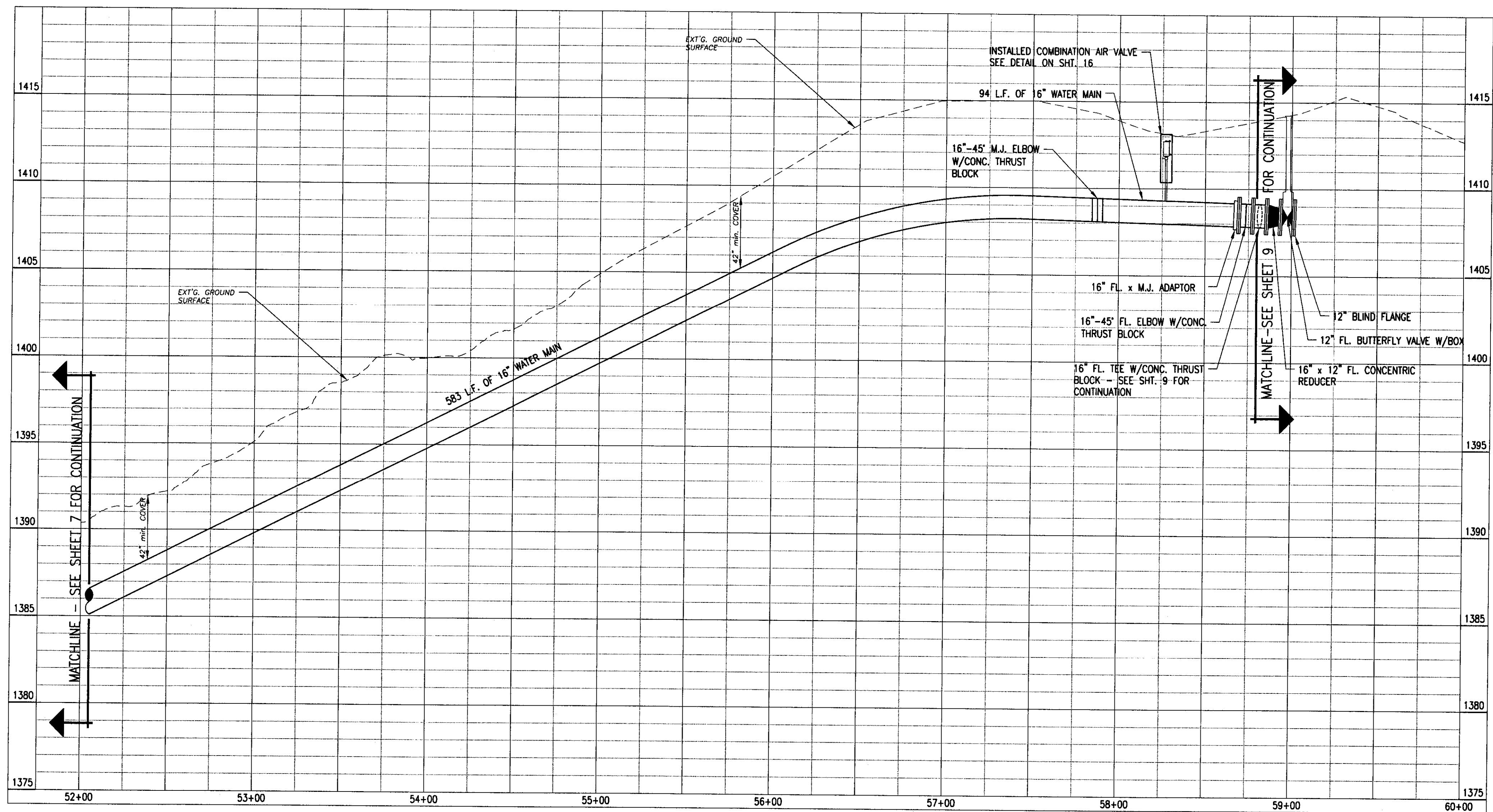
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 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 STA. 41+05 TO STA. 52+05
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SHEET 7 OF 17	

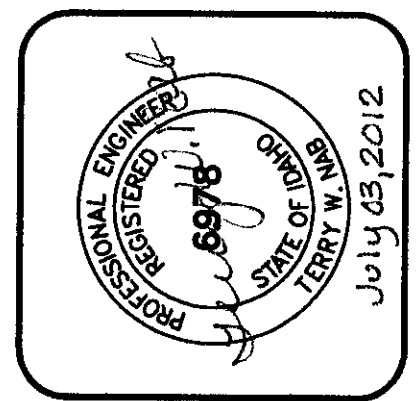


PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

NO.	DATE	BY	REVISIONS

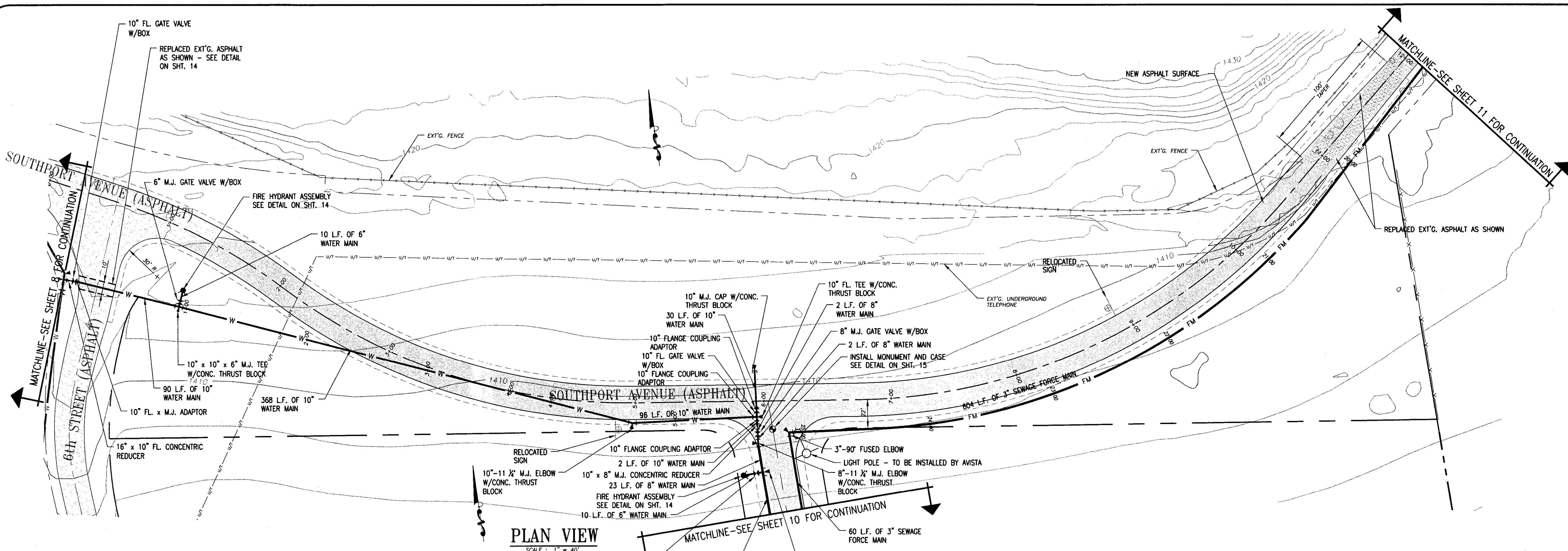


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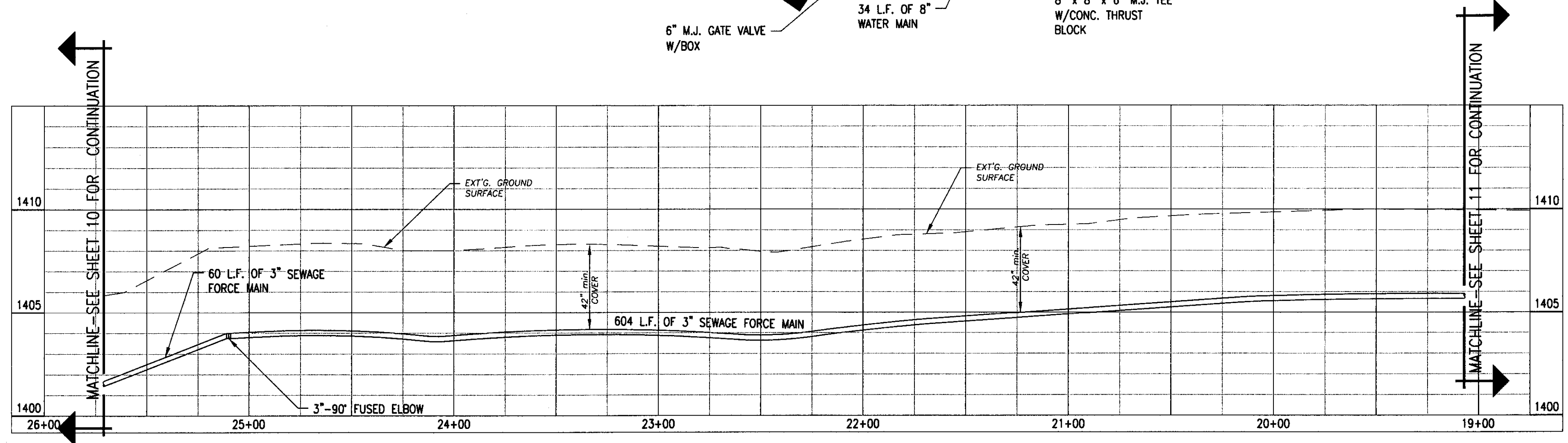
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 AIRPOINTE BUSINESS PARK
 STA. 52+05 TO STA. 58+82
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SHEET 8 OF 17	

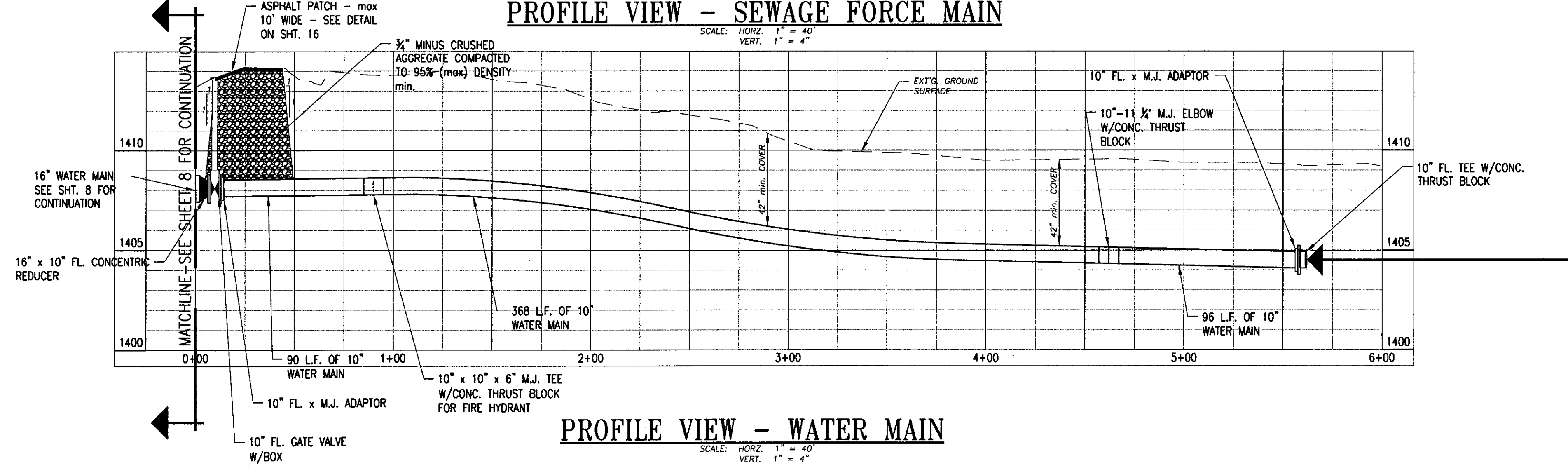
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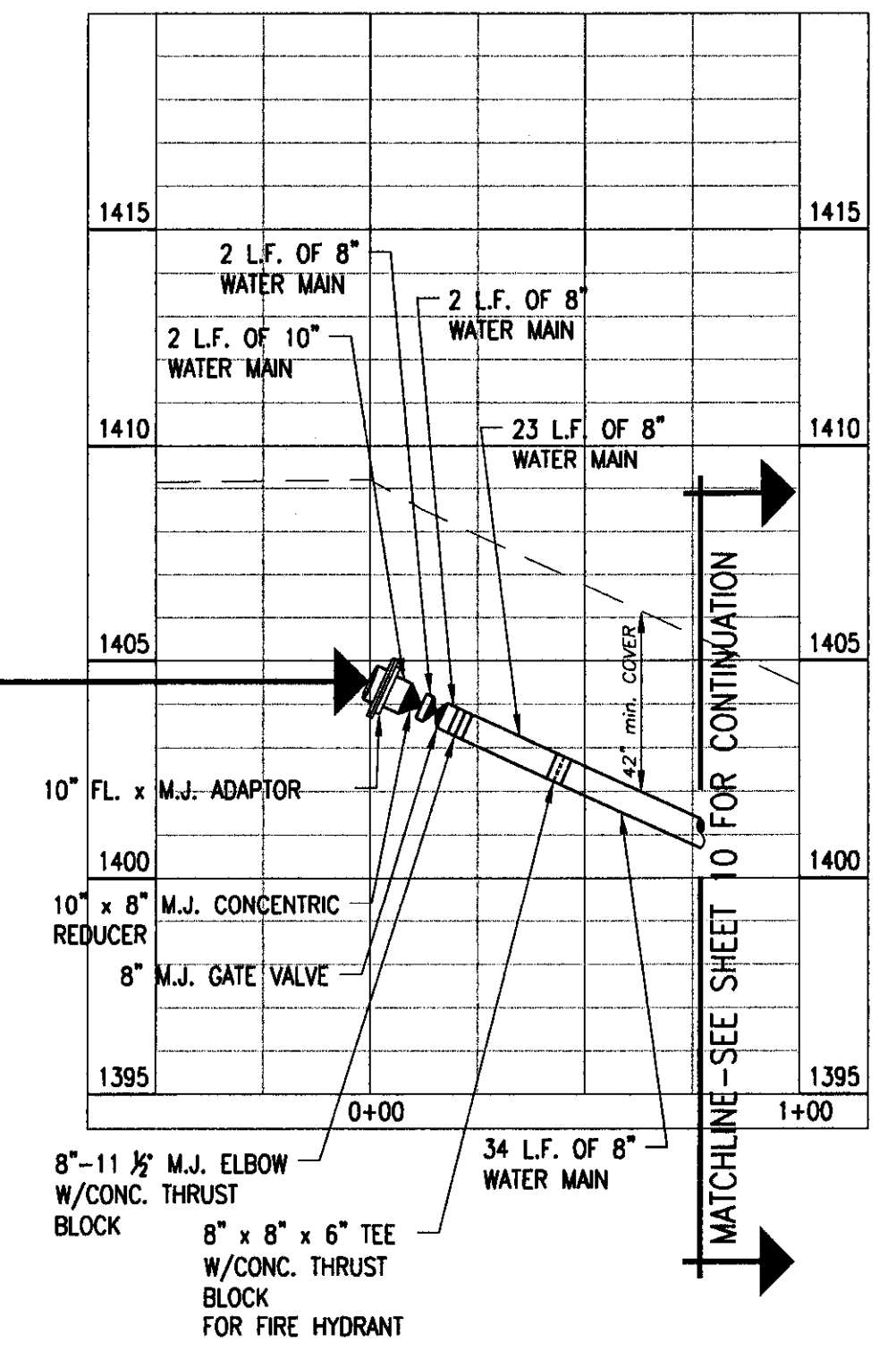
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SCALE: 1" = 40'



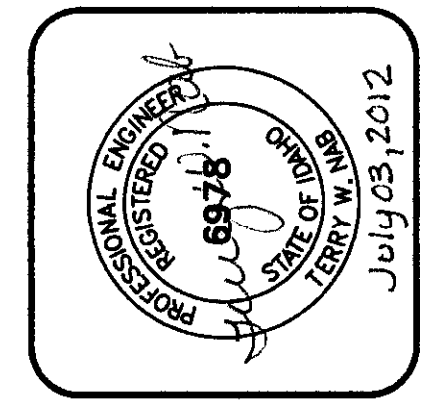
PROFILE VIEW - SEWAGE FORCE MAIN
SCALE: HORIZ. 1" = 40' VERT. 1" = 4'



PROFILE VIEW - WATER MAIN
SCALE: HORIZ. 1" = 40' VERT. 1" = 4'



NO.	DATE	BY	REVISIONS

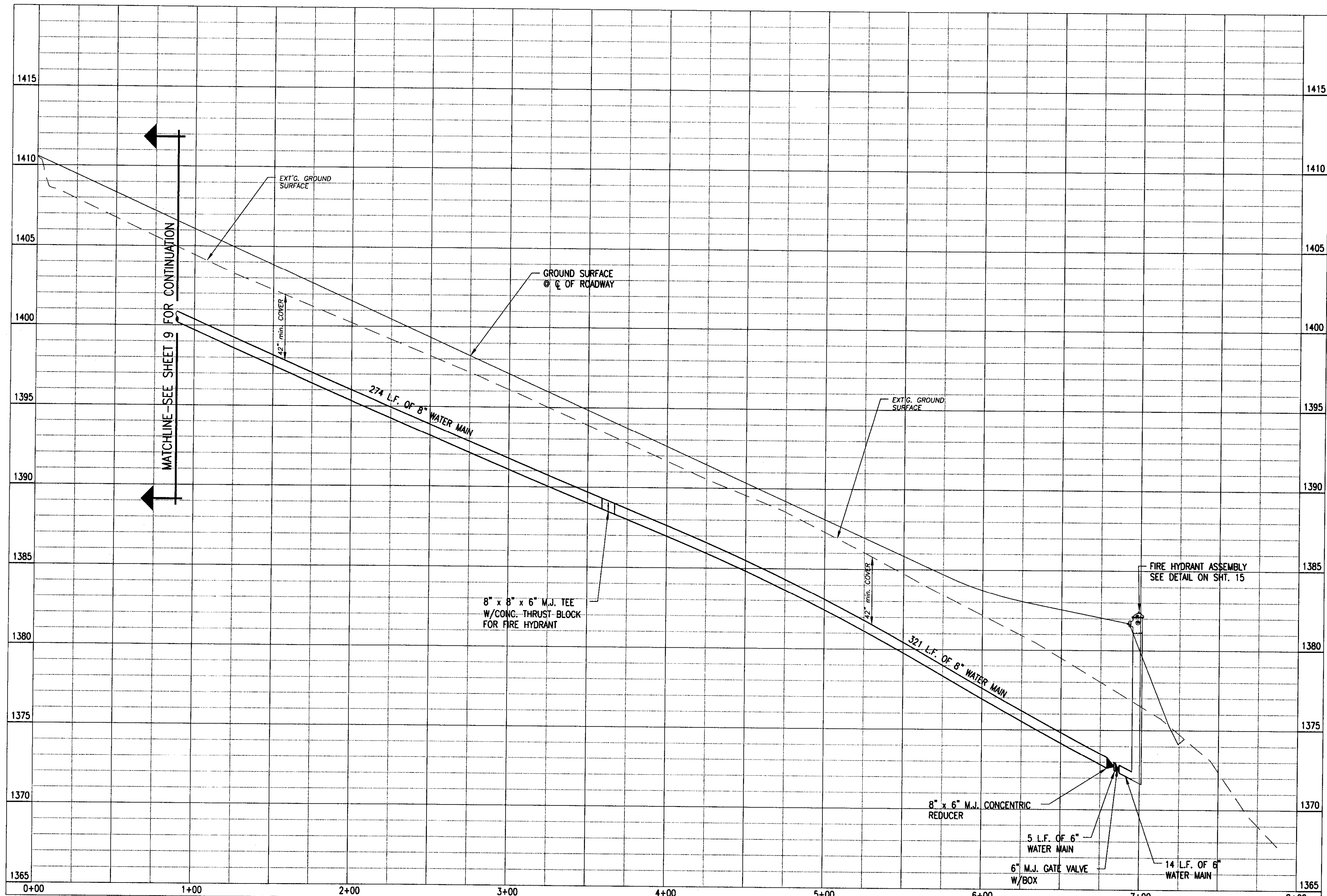
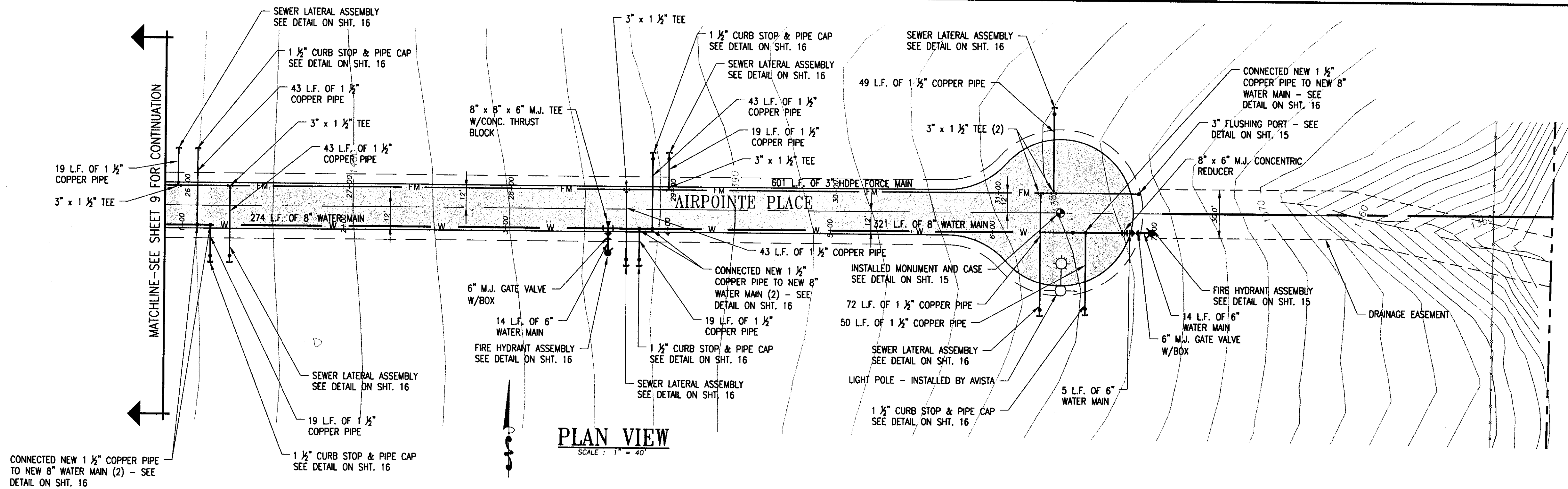


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 AIRPOINTE BUSINESS PARK
 STA. 0+00 TO STA. 12+04
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DATE: 06/21/12	
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PROJECT NO.: 08-005	
SHEET 9 OF 17	

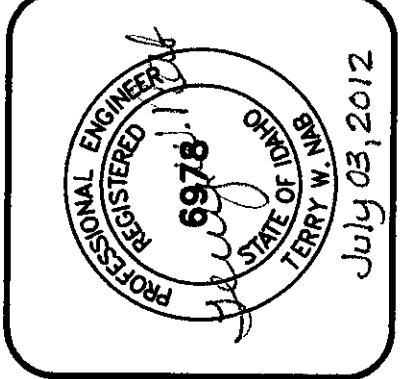
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PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

RECORD DRAWING 06/21/12

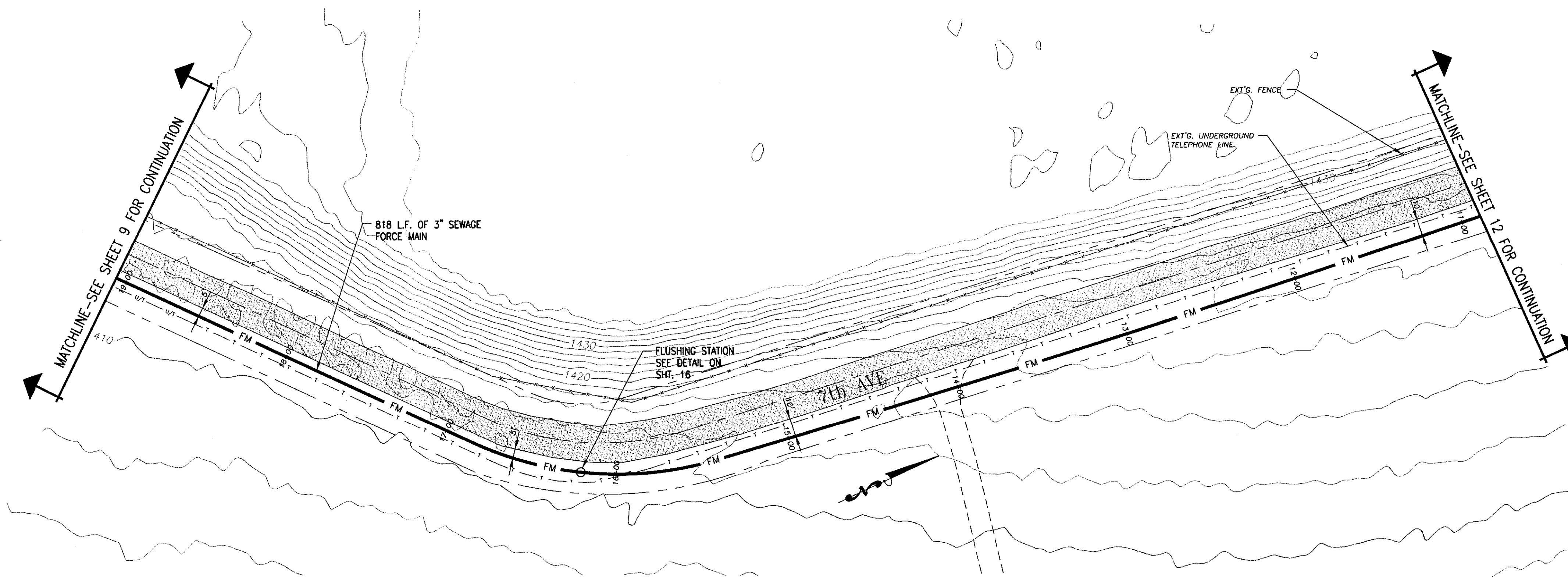
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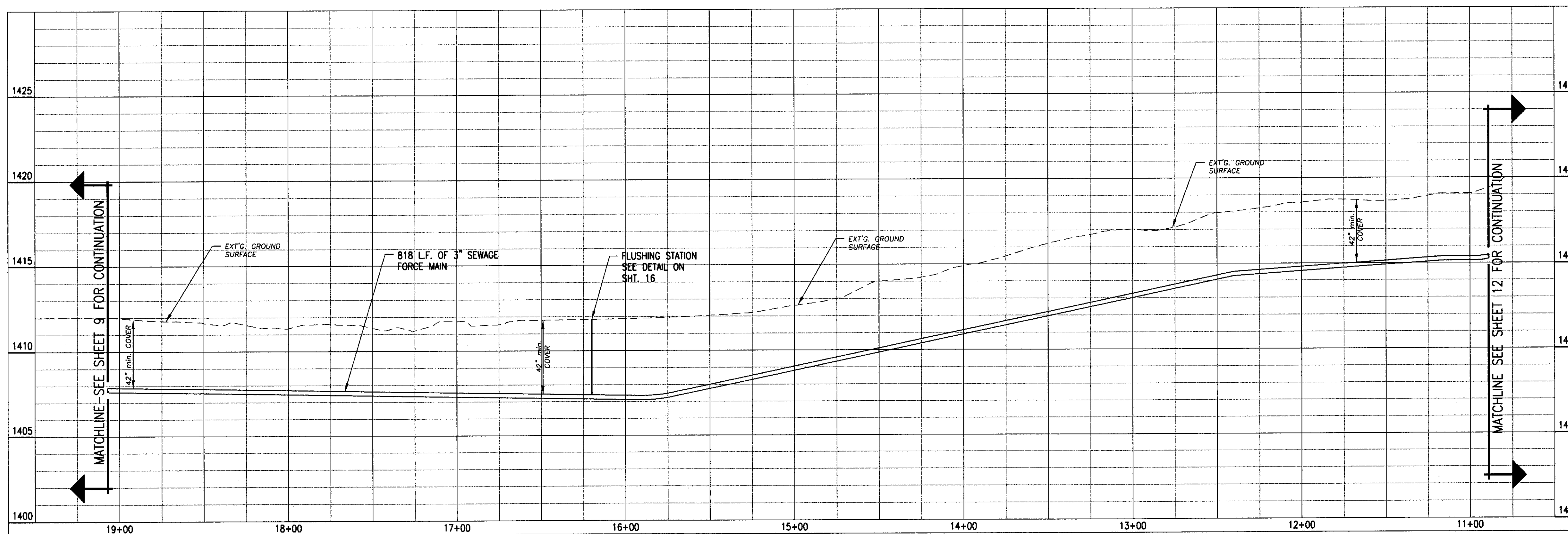
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 SOUTHPORT WATER MAIN EXTENSION
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 STA. 0+89 TO STA. 13+64
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LAST REV:	
PROJECT NO: 08-005	
SHEET 10 OF 17	



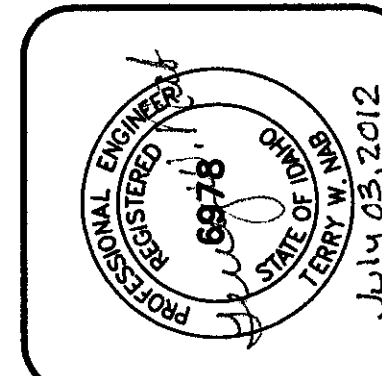
PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



NO.	DATE	BY	REVISIONS

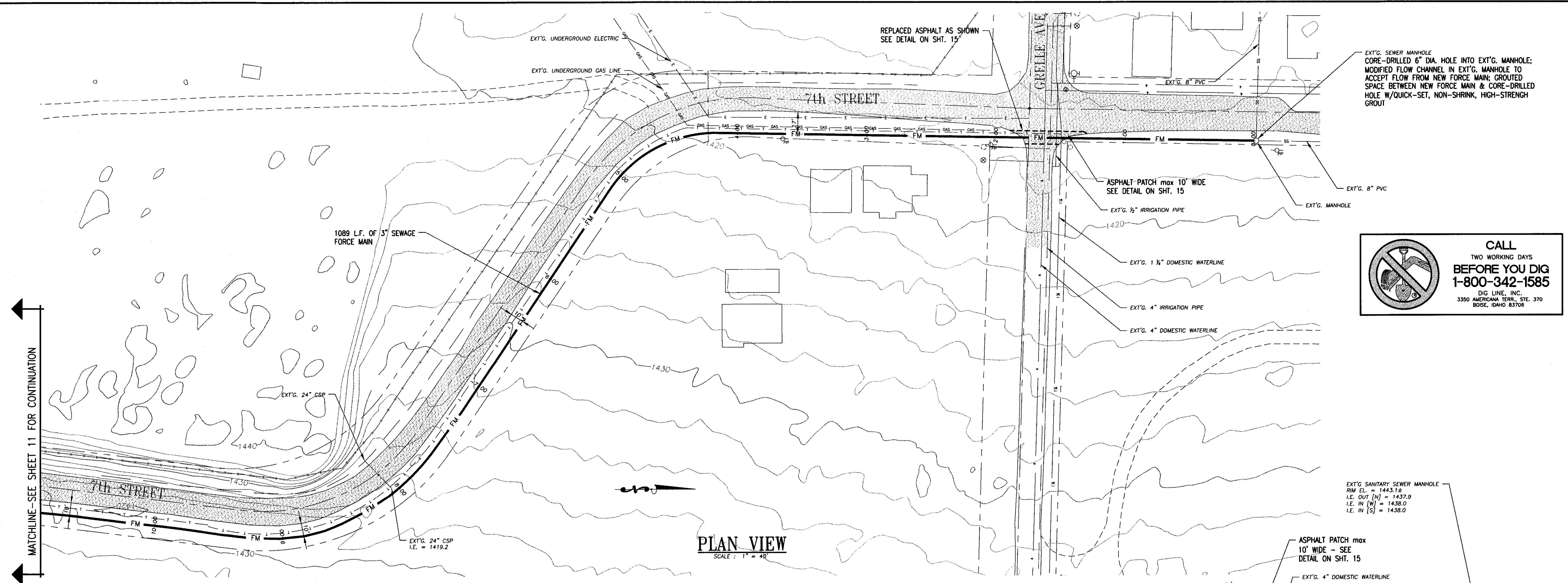


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SOUTHPORT SEWER MAIN EXTENSION
AIRPORTE BUSINESS PARK
STA. 19+06 TO STA. 10+89
LEWISTON, IDAHO 83501

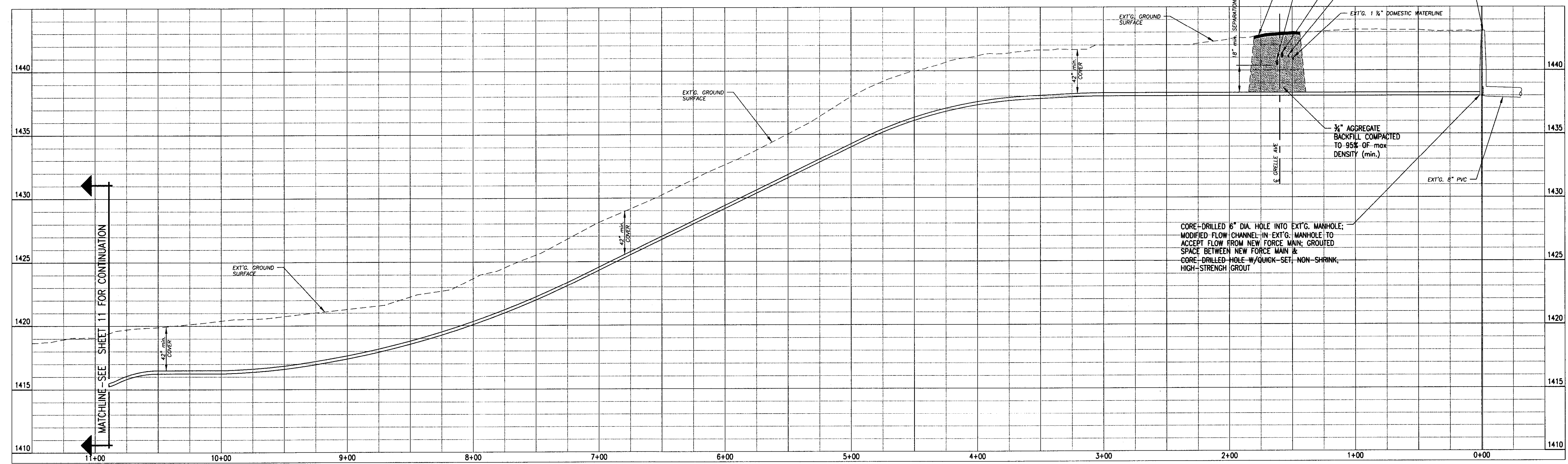
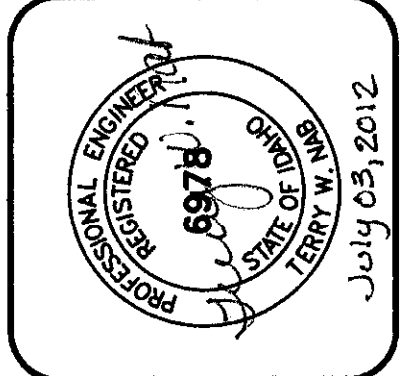
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DATE: 02/24/11	
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SHEET 11 OF 17	



PLAN VIEW
SCALE: 1" = 40'

MATCHLINE-SEE SHEET 11 FOR CONTINUATION

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PROFILE VIEW
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

MATCHLINE-SEE SHEET 11 FOR CONTINUATION

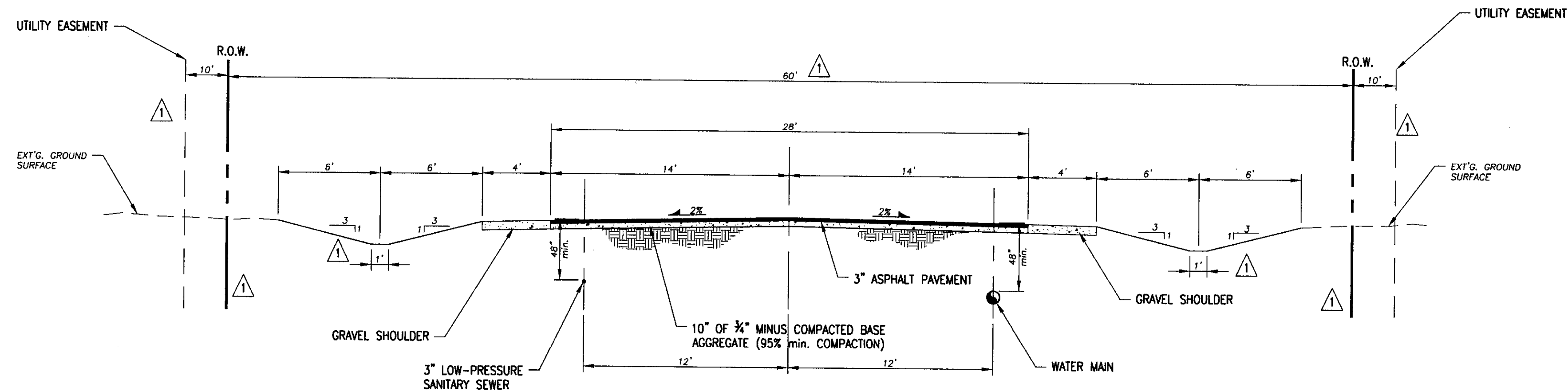
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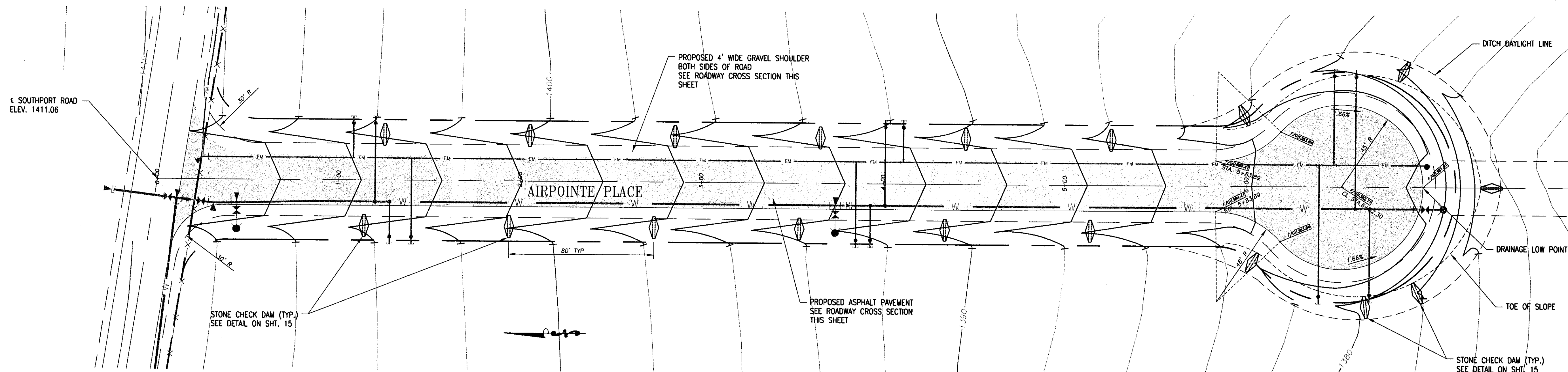
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SOUTHPORT WATER MAIN EXTENSION
AIRPORTE BUSINESS PARK
STA. 10+89 TO 0+00
LEWISTON, IDAHO 83501

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SHEET 12 OF 17	



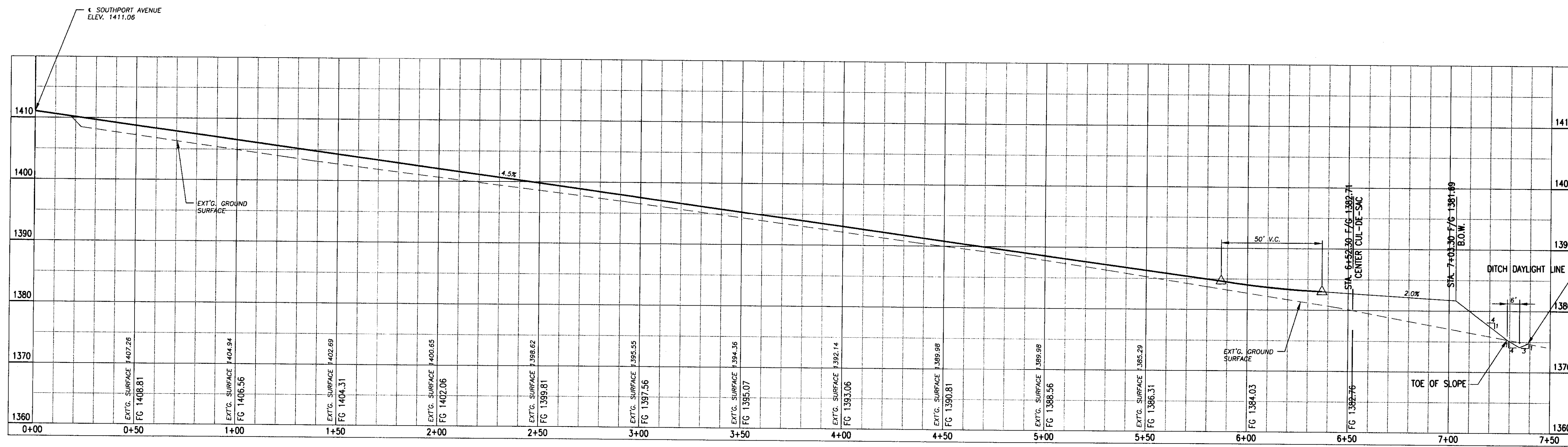
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SCALE: 1" = 5'



PLAN VIEW

SCALE: 1" = 30'

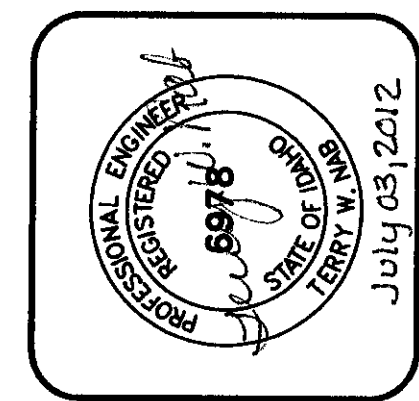


PROFILE VIEW

SCALE: HORIZ. 1" = 30'
VERT. 1" = 10'

RECORD DRAWING 06/21/12

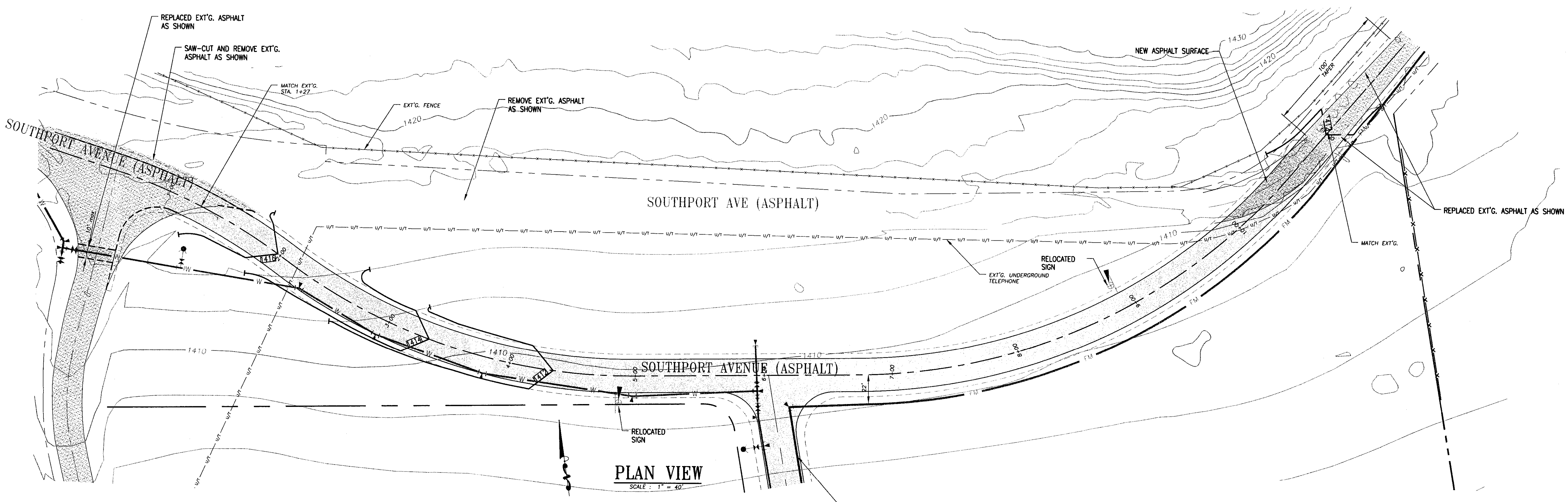
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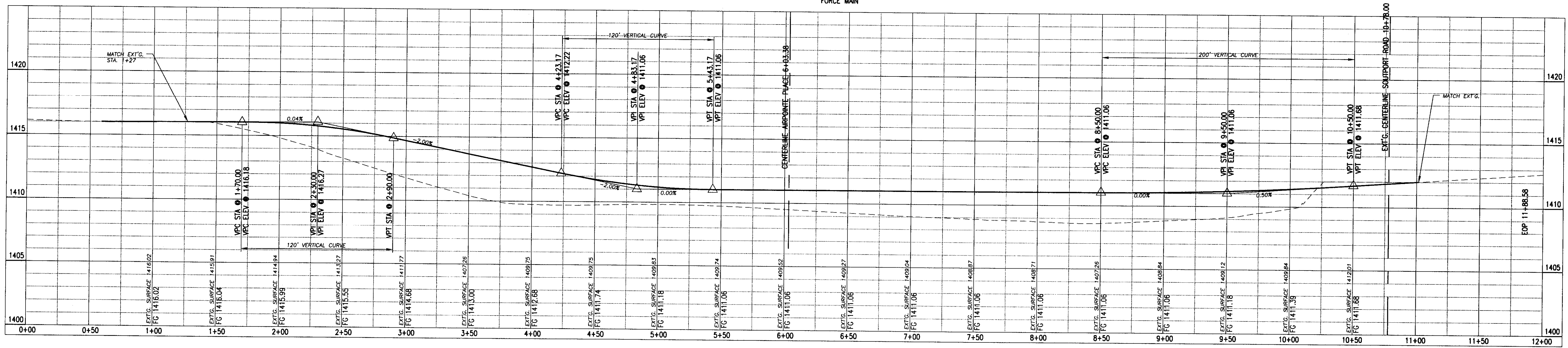
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 DESIGN & CONSTRUCTION MANAGEMENT
 1208 IDAHO STREET, LEWISTON, IDAHO 83501
 PH (208) 746-6408 FAX (208) 746-9732

D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 AIRPOINTE PLACE GRADING PLAN
 LEWISTON, IDAHO 83501

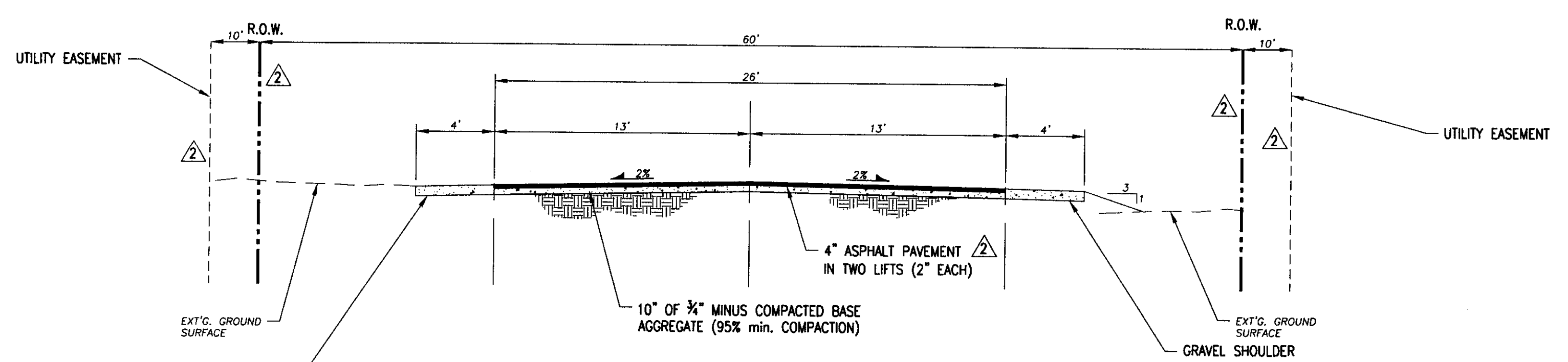
DRAWN BY: djb	CHECKED BY: TWN
DESIGNED BY: TWN	
DATE: 02/28/11	
LAST REV:	
PROJECT NO: 08-005	
SHEET 13 OF 17	



PLAN VIEW
SCALE: 1" = 40'



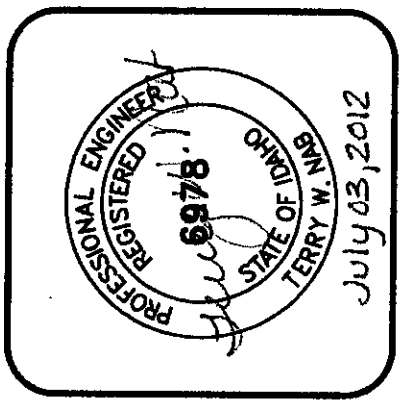
PROFILE VIEW - SOUTHPORT AVENUE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



ROADWAY CROSS SECTION (TYP.)
SCALE: 1" = 5'

RECORD DRAWING 06/21/12

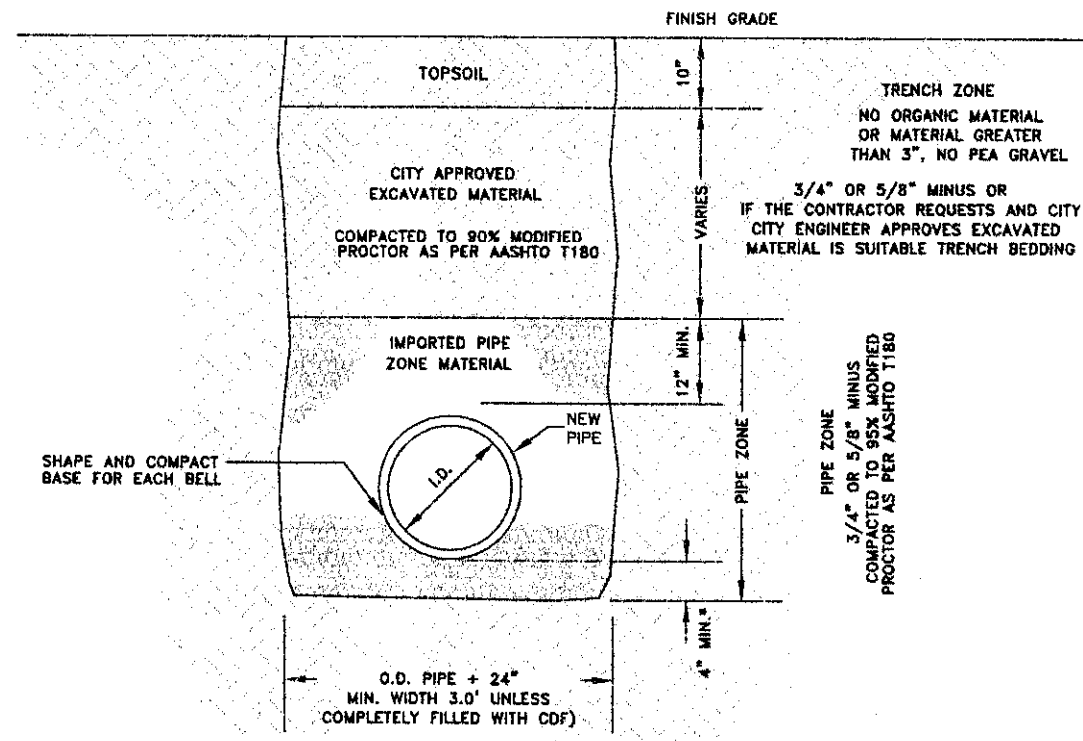
REVISED	DATE	BY



PROGRESSIVE ENGINEERING GROUP, INC
 DESIGN & CONSTRUCTION MANAGEMENT
 1208 IDAHO STREET
 LEWISTON, IDAHO 83501
 PH (208) 746-5406 FAX (208) 746-9752

D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 SOUTHPORT AVE GRADING PLAN
 LEWISTON, IDAHO 83501

DRAWN BY: WRE	CHECKED BY: TWN
DESIGNED BY: TWN	
DATE: 02/28/11	
LAST REV: 10/12/11	
PROJECT NO: 08-005	
SHEET 14 OF 17	

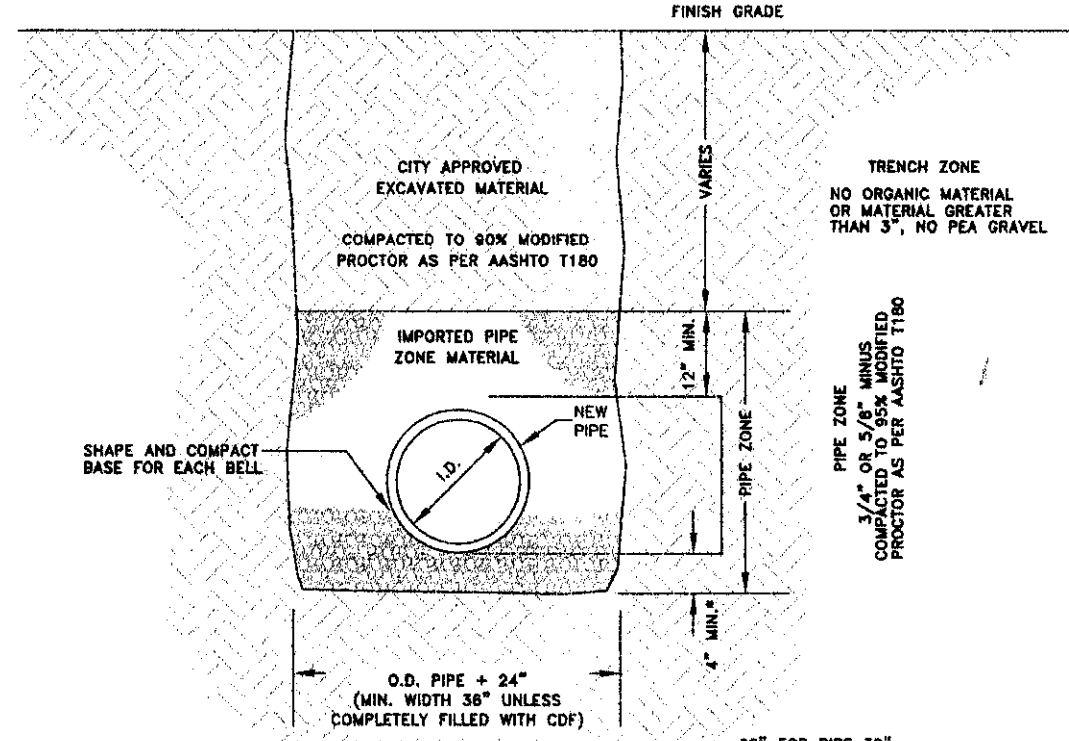


STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

CLASS 'A' BACKFILL SHALL BE USED IN AREAS OUTSIDE OF RIGHT-OF-WAY AND WHERE THERE IS TO BE RE-VEGETATION.

- NOTES:**
- CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
 - CLASS 'A' BACKFILL SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
 - TRENCH MATERIAL SHALL BE PLACED IN MAX. 6" LIFTS.
 - IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
 - TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
 - ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.
 - SPECIFICATIONS REGARDING PIPE BEDDING AND TRENCH BACKFILL WILL FOLLOW ISPEC SECTION 305 AND 306, UNLESS ABOVE STANDARDS ARE MORE RESTRICTIVE.

BACKFILL CLASS 'A'
CITY OF LEWISTON
STD. DWG 1-4

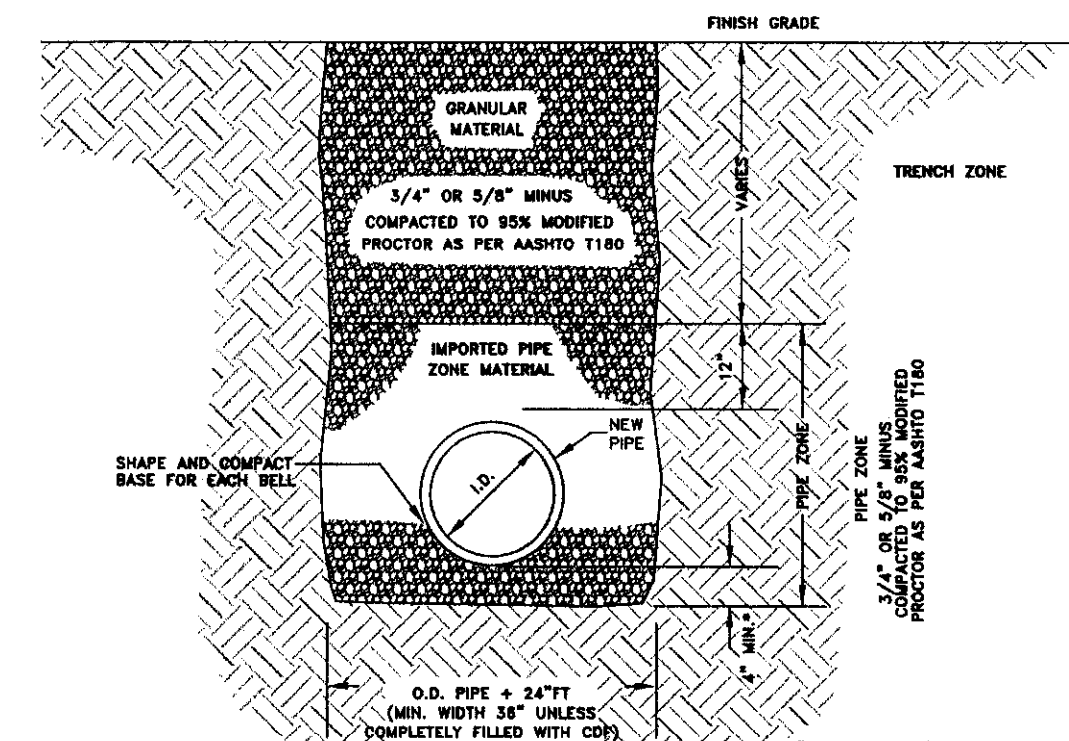


STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

CLASS 'C' BACKFILL SHALL BE USED IN AREAS WITHIN RIGHT-OF-WAY WHERE ASPHALT PAVEMENT, CONCRETE CURB, SIDEWALK, DRIVEWAY, AND GRAVEL SURFACING IS NOT ANTICIPATED.

- NOTES:**
- CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
 - CLASS 'C' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
 - TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
 - IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
 - TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
 - ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.
 - WITHIN RETENTION WALLS, COMPACTION EFFORT OBTAINED BY ENGINEER OF RECORD AND APPROVED BY CITY ENGINEER, TO ALLOW FOR INFILTRATION.
 - SPECIFICATIONS REGARDING PIPE BEDDING AND TRENCH BACKFILL WILL FOLLOW ISPEC SECTION 305 AND 306, UNLESS ABOVE STANDARDS ARE MORE RESTRICTIVE.

BACKFILL CLASS 'C'
CITY OF LEWISTON
STD. DWG 1-5

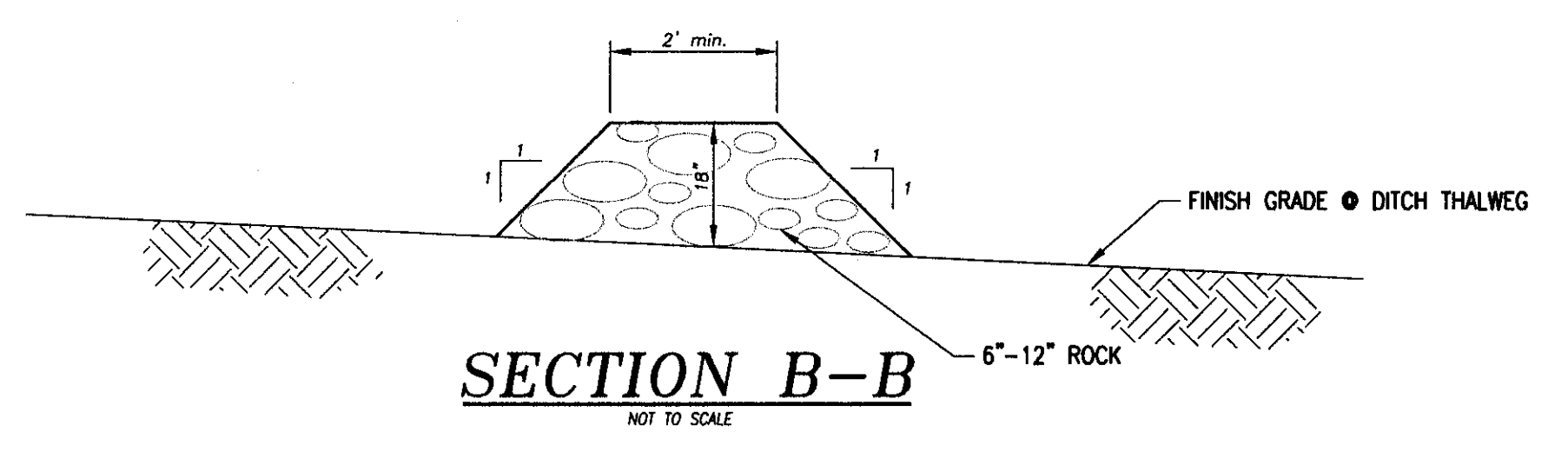


STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

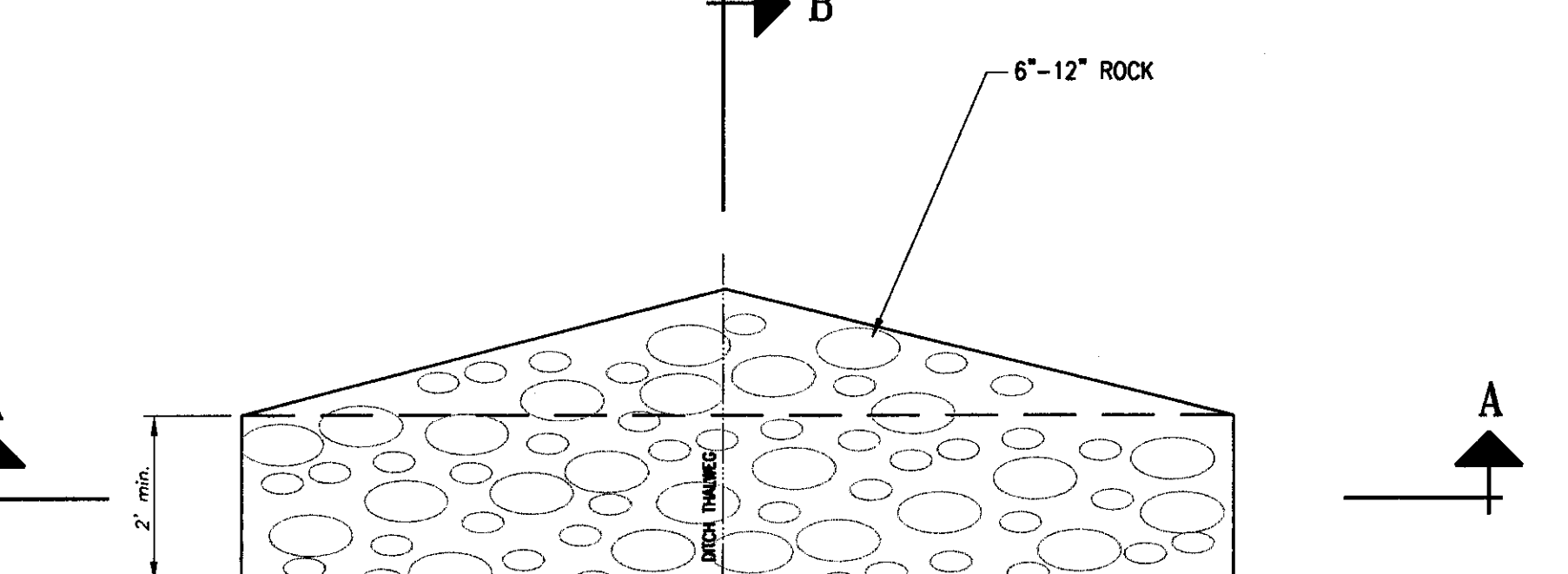
CLASS 'D' BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT, CONCRETE CURB, SIDEWALK, DRIVEWAY, AND GRAVEL SURFACING IS ANTICIPATED.

- NOTES:**
- CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
 - CLASS 'D' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
 - TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
 - IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
 - TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
 - ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.
 - SPECIFICATIONS REGARDING PIPE BEDDING AND TRENCH BACKFILL WILL FOLLOW ISPEC SECTION 305 AND 306, UNLESS ABOVE STANDARDS ARE MORE RESTRICTIVE.

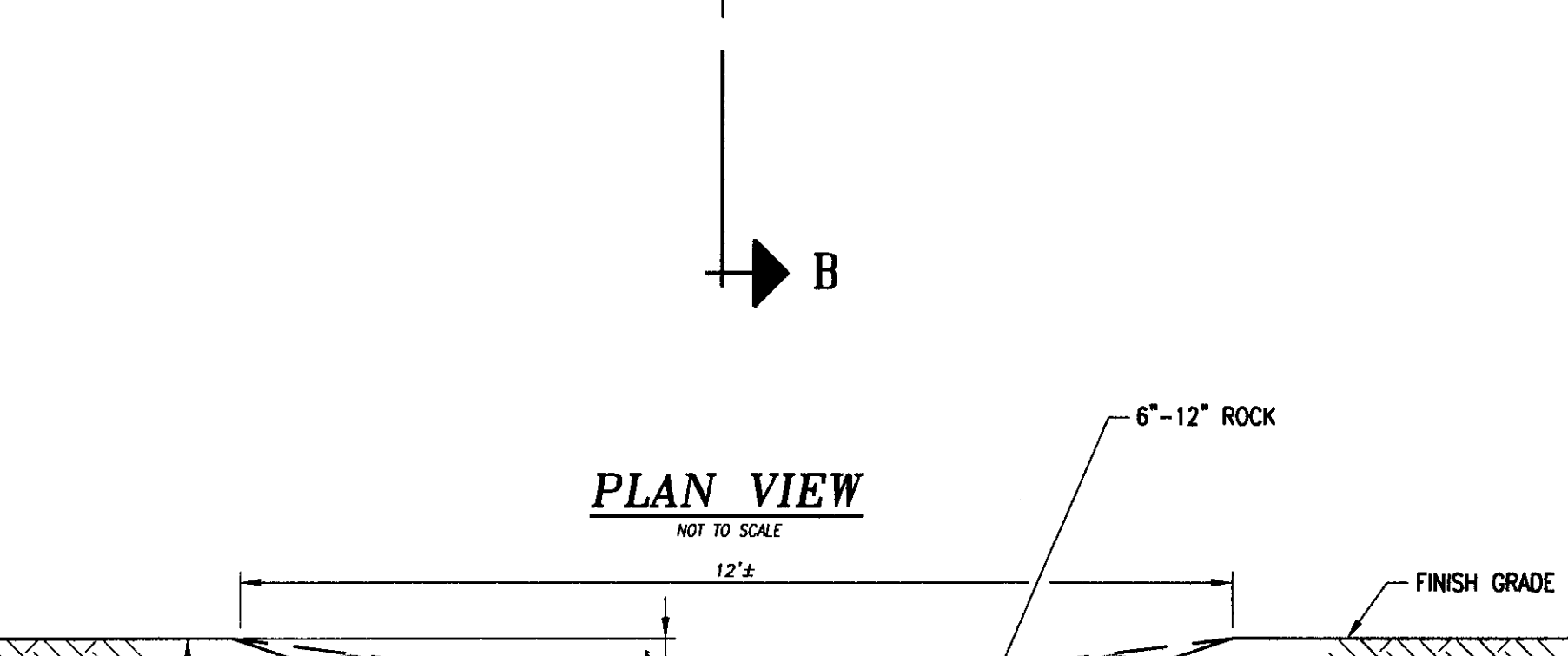
BACKFILL CLASS 'D'
CITY OF LEWISTON
STD. DWG 1-6



SECTION B-B
NOT TO SCALE

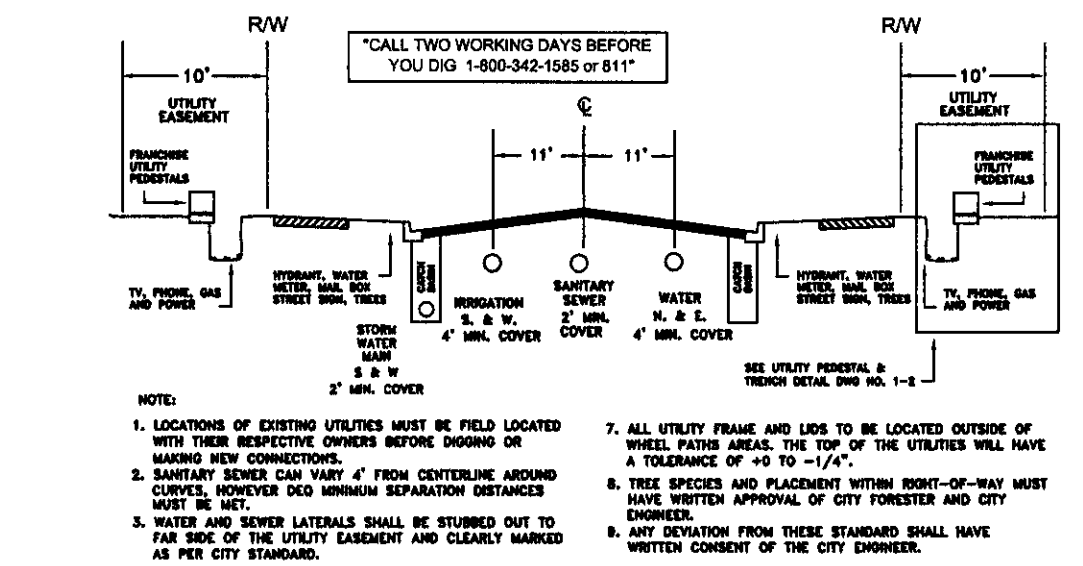


PLAN VIEW
NOT TO SCALE



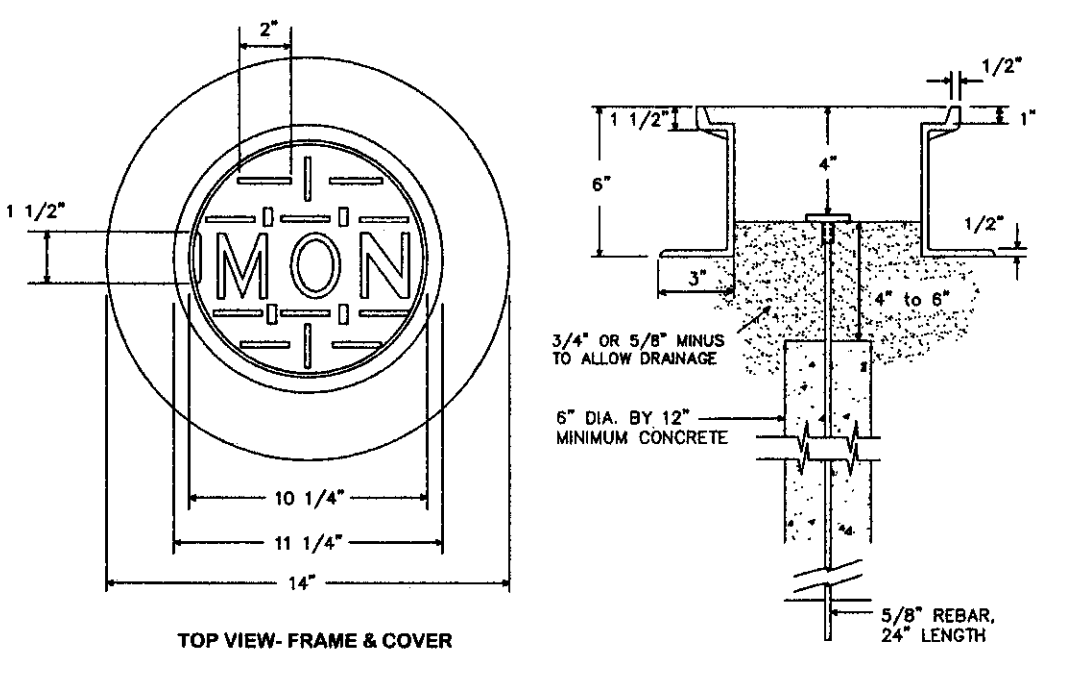
SECTION A-A
NOT TO SCALE

TRENCH EXCAVATION & BACKFILL DETAIL
NOT TO SCALE



- NOTES:**
- LOCATIONS OF EXISTING UTILITIES MUST BE FIELD LOCATED WITH THEIR RESPECTIVE OWNERS BEFORE DIGGING OR MAKING NEW CONNECTIONS.
 - UTILITY LOCATIONS SHALL BE FIELD LOCATED WITHIN 10' OF THE CENTERLINE OF THE UTILITY. ALL UTILITIES SHALL BE FIELD LOCATED WITHIN 10' OF THE CENTERLINE OF THE UTILITY. ALL UTILITIES SHALL BE FIELD LOCATED WITHIN 10' OF THE CENTERLINE OF THE UTILITY.
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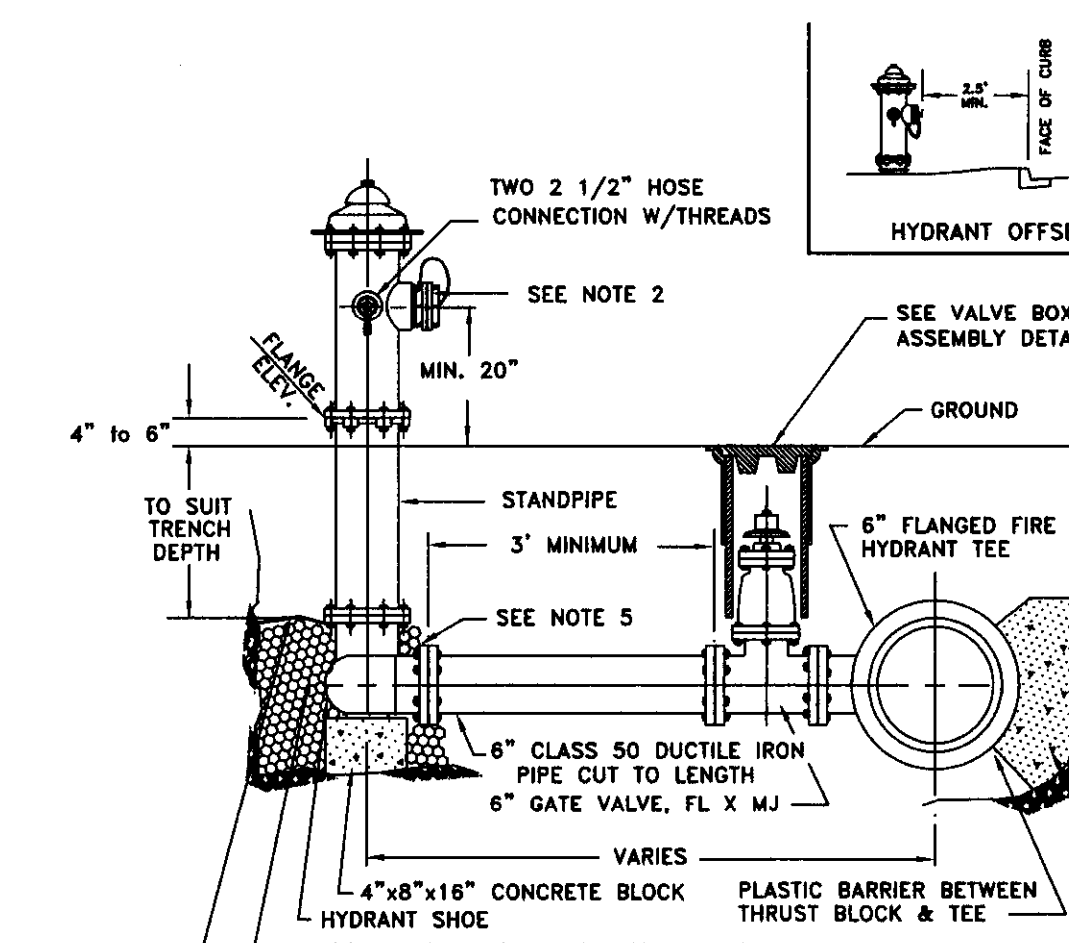
UTILITY LOCATIONS
CITY OF LEWISTON
STD. DWG 1-1



NOTES:

- MONUMENT CASE SHALL BE OLYMPIC FOUNDRY INC. PART NO. M1010 OR APPROVED EQUAL. SEE CITY STD. #1-10 ADJUST UTILITIES COLLARS.
- MONUMENT INSTALLATION TO BE COMPLETED BY A LICENSED SURVEYOR AFTER COMPLETION OF STREET CONSTRUCTION.
- MONUMENT SHALL CONSIST OF A METAL CAP ON A 5/8\"/>

STREET MONUMENT WITH FRAME AND COVER
CITY OF LEWISTON
STD. DWG 1-3



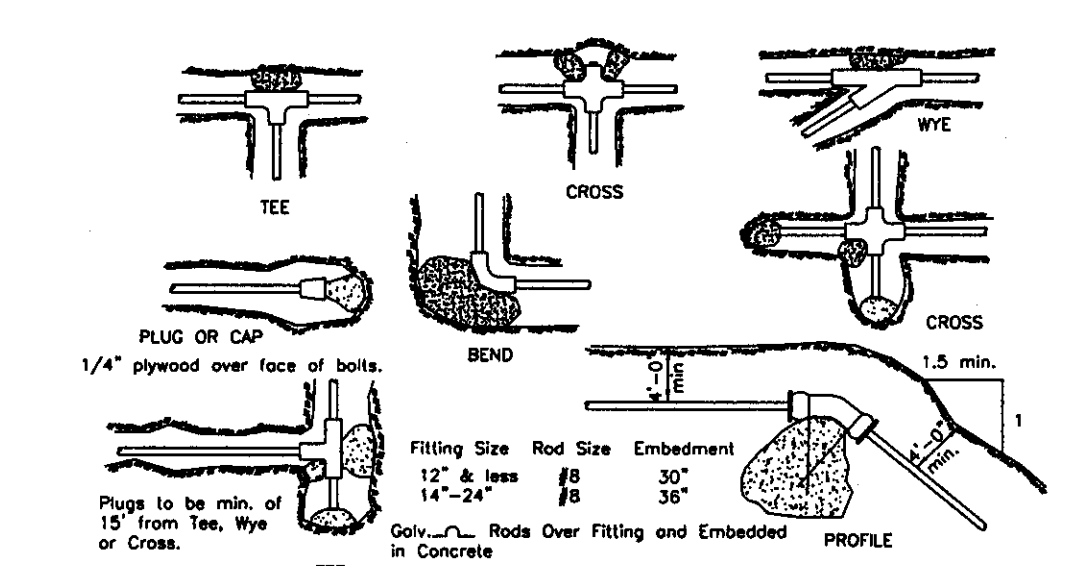
- NOTES:**
- FIRE HYDRANT SHALL BE MUELLER SUPER CENTURION, WATEROUS PACER WITH 1 1/2\"/>

FIRE HYDRANT W/ SHUT-OFF VALVE
CITY OF LEWISTON
STD. DWG 4-12

FIRE HYDRANT INSTALLATION DETAIL
NOT TO SCALE

STONE CHECK DAM DETAIL
NOT TO SCALE

UTILITY LOCATION DETAIL
NOT TO SCALE



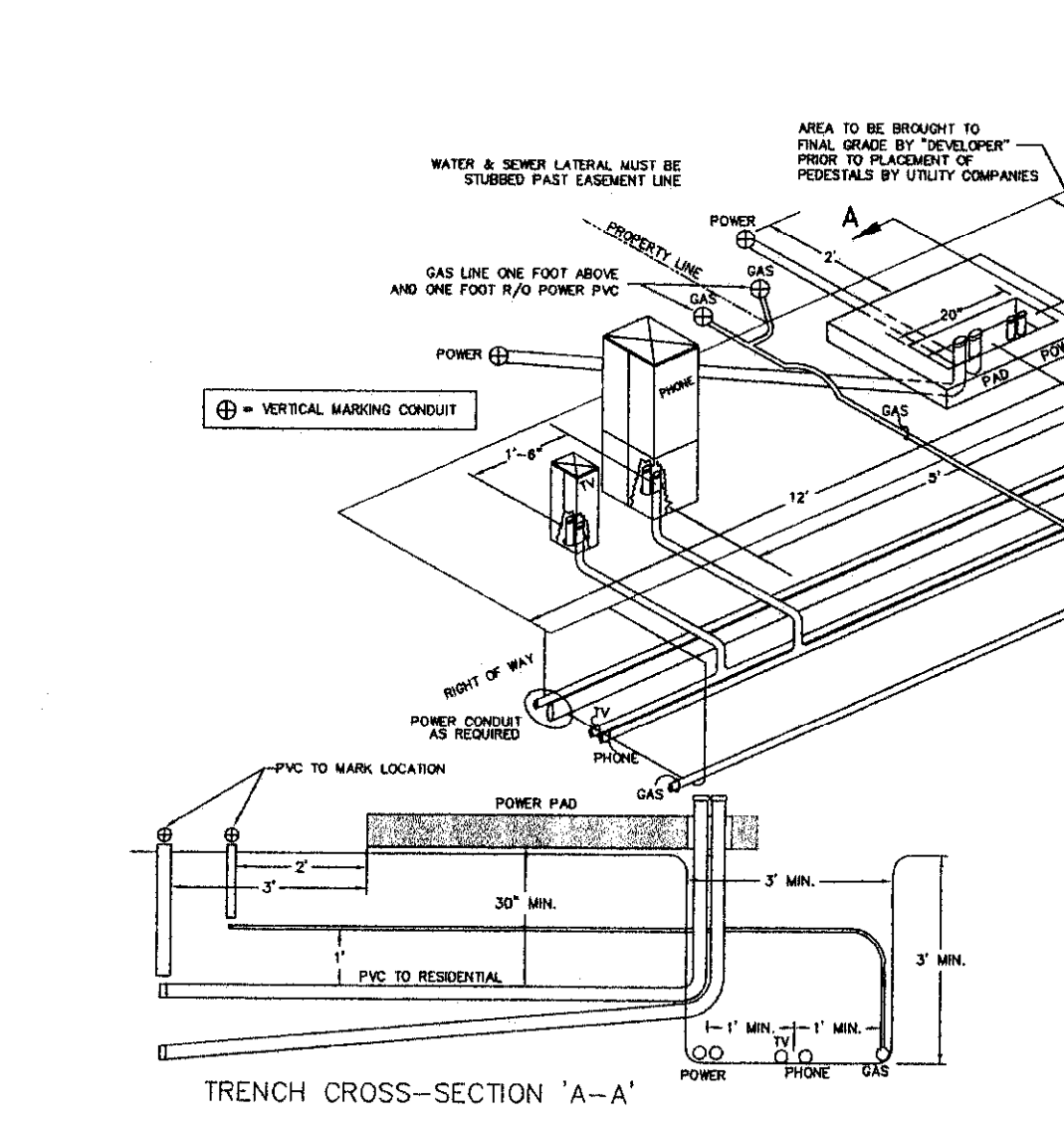
Fitting Size	BEARING AREA OF THRUST BLOCKS IN SQ. FT.			
	90° Bend Tee	45° Bend Tee	22 1/2° Bend Tee	11 1/4° Bend Tee
4	1.0	1.4	1.0	---
6	2.1	3.0	1.6	---
8	3.8	5.3	2.9	1.5
10	5.9	8.4	4.8	2.4
12	8.6	12.0	6.8	3.4
14	11.9	16.3	9.9	4.6
16	15.0	21.3	11.6	6.0
18	19.0	27.0	14.6	7.8
20	23.5	33.3	18.1	9.4
24	34.0	48.0	26.2	13.6

Fitting Size	VOLUME OF THRUST BLOCK IN CU. YD.			
	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	---	---	---	---
6	1.1	---	---	---
8	2.3	1.1	---	---
10	3.7	1.8	---	---
12	5.5	2.8	1.2	---
14	7.8	3.9	1.7	---
16	9.9	5.1	2.3	0.8
18	---	6.3	3.2	1.4
20	---	7.7	4.0	1.8
24	---	11.1	5.7	2.6

THRUST BLOCKING DETAIL
CITY OF LEWISTON
STD. DWG 4-4

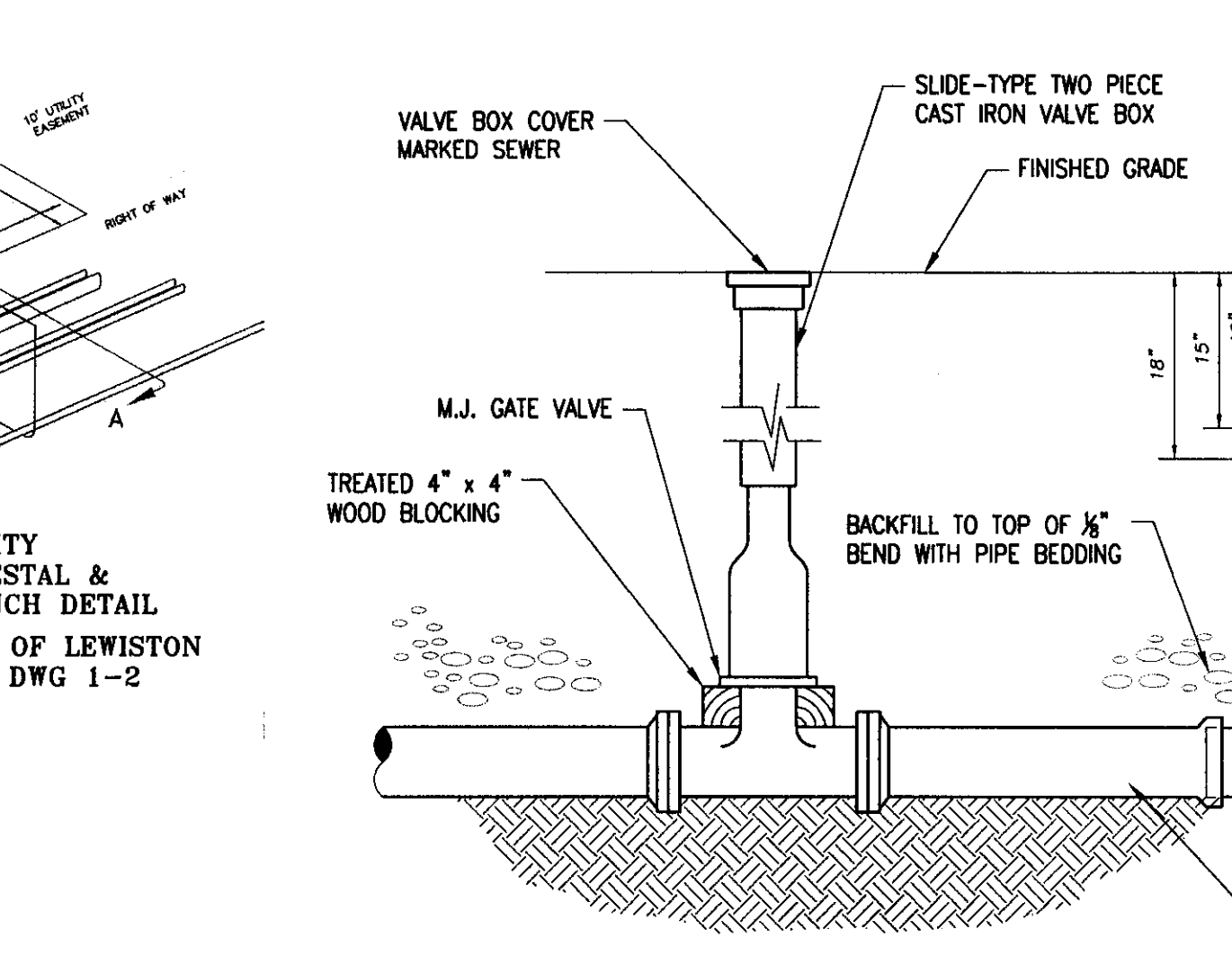
THRUST BLOCK DETAIL
NOT TO SCALE

STREET MONUMENT DETAIL
NOT TO SCALE



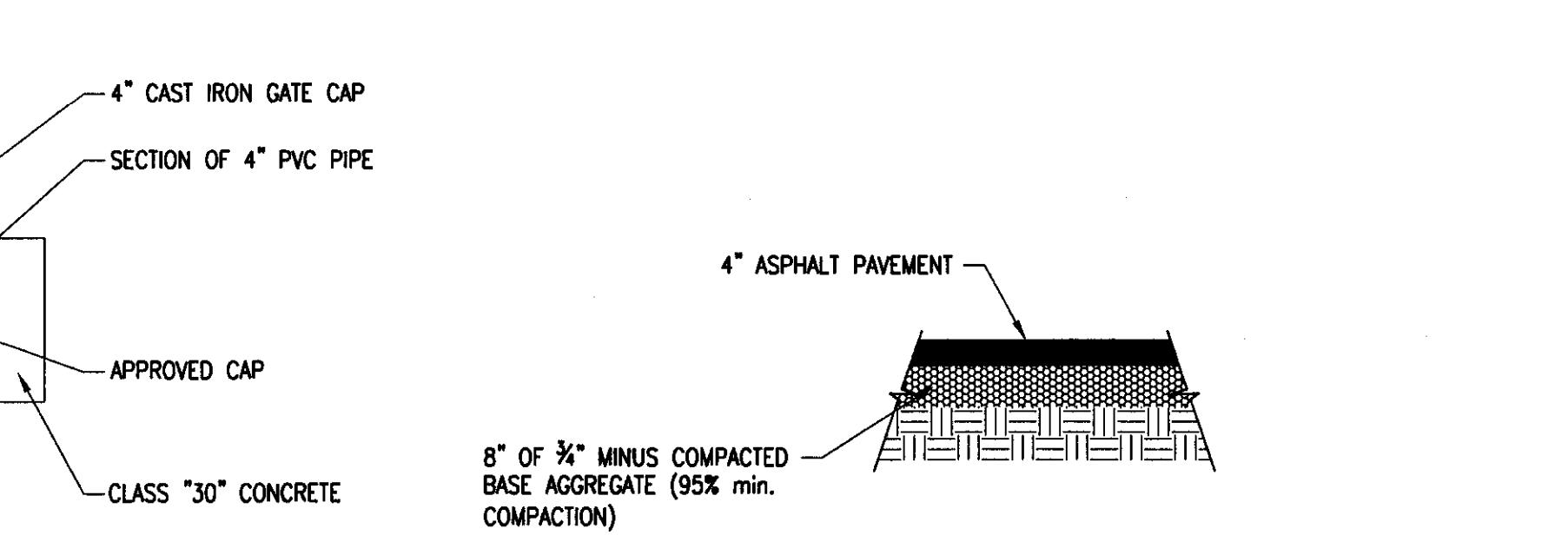
UTILITY DETAIL
NOT TO SCALE

FIRE HYDRANT INSTALLATION DETAIL
NOT TO SCALE



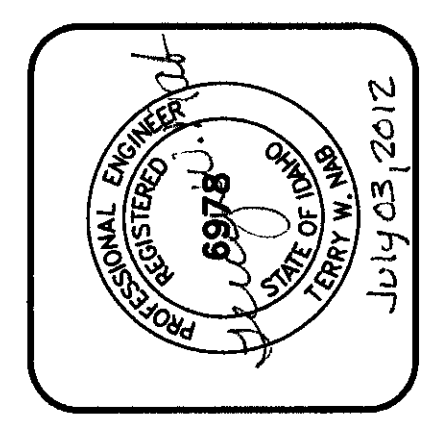
FLUSHING PORT DETAIL
NOT TO SCALE

STONE CHECK DAM DETAIL
NOT TO SCALE



ASPHALT PATCHING DETAIL
NOT TO SCALE

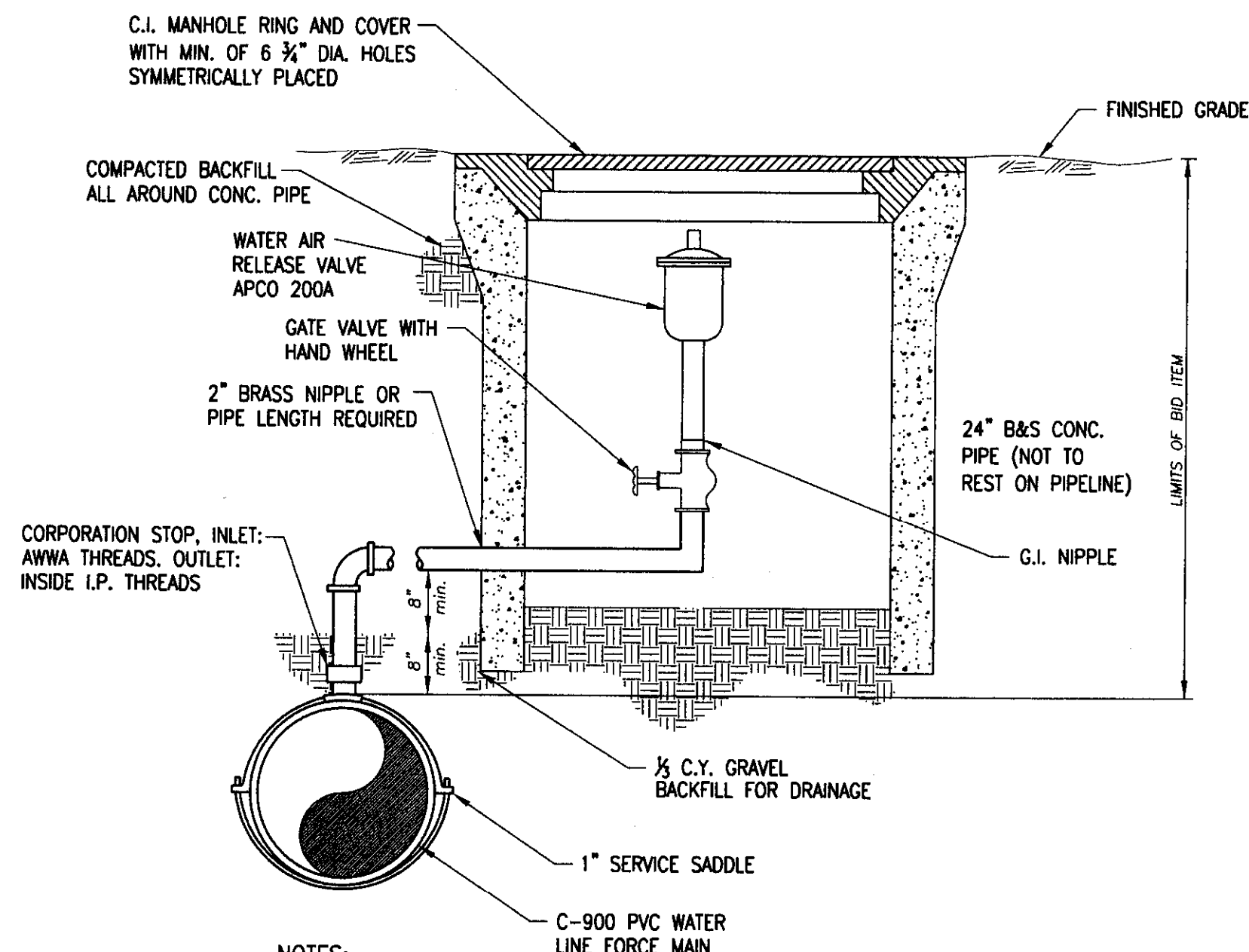
REVISIONS	
No.	DATE



PROGRESSIVE ENGINEERING GROUP, INC.
DESIGN & CONSTRUCTION MANAGEMENT
1208 IDAHO STREET
LEWISTON, IDAHO 83501
PH (208) 746-0400 FAX (208) 746-9702

D 2 J, INC.
SOUTHPORT WATER MAIN EXTENSION
AIRPOINTE BUSINESS PARK
DETAILS
LEWISTON, IDAHO 83501

DRAWN BY: JAY	CHECKED BY: TWN
DESIGNED BY: TWN	
DATE: 02/28/11	
LAST REV: 08-005	
PROJECT NO: 08-005	
SHEET 15 OF 17	

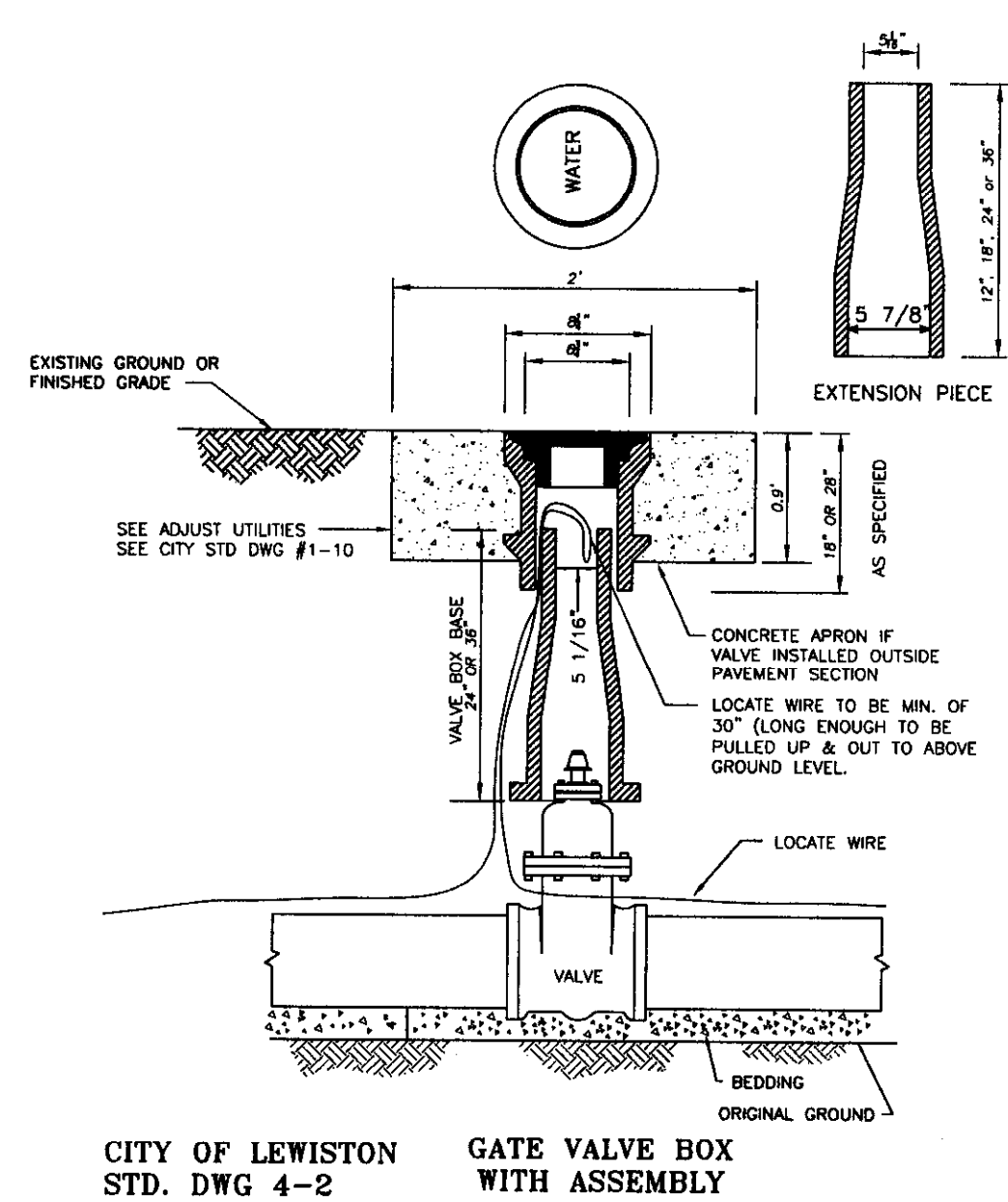


NOTES:

- CORPORATION STOP, GATE VALVE, AND CONNECTING PIPING SHALL BE THE SAME DIAMETER AS THE AIR VALVE INLET.
- USE APPROVED JOINTING COMPOUND ON ALL THREADED CONNECTIONS.
- ROTATE AIR VALVE TO PROVIDE MAXIMUM CLEARANCE FOR ACCESS TO GATE VALVE.
- AIR VALVE DETAILS SHOWN ON THE PLANS TAKE PRECEDENCE OVER THIS STANDARD DETAIL.

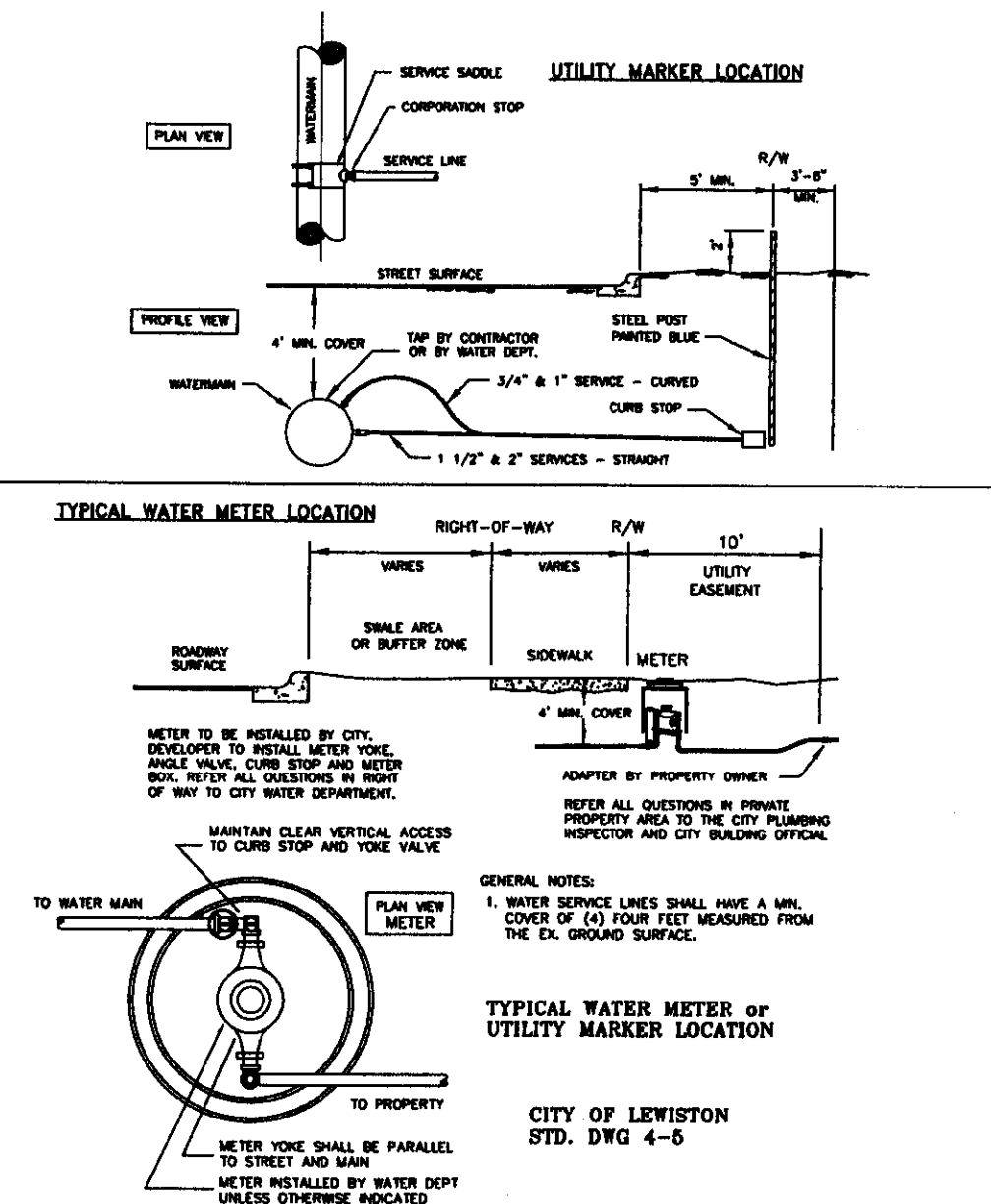
COMBINATION AIR VALVE

NOT TO SCALE



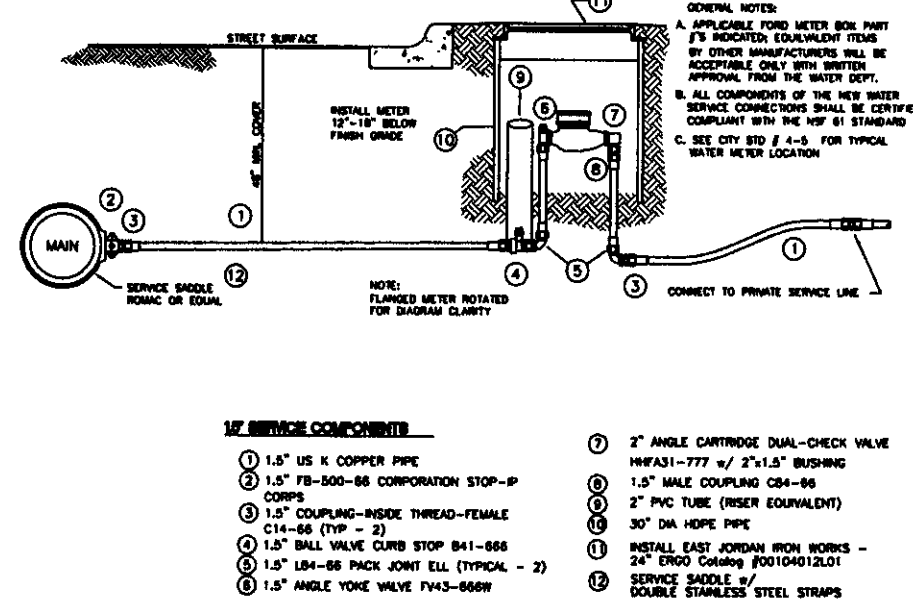
GATE VALVE INSTALLATION

NOT TO SCALE



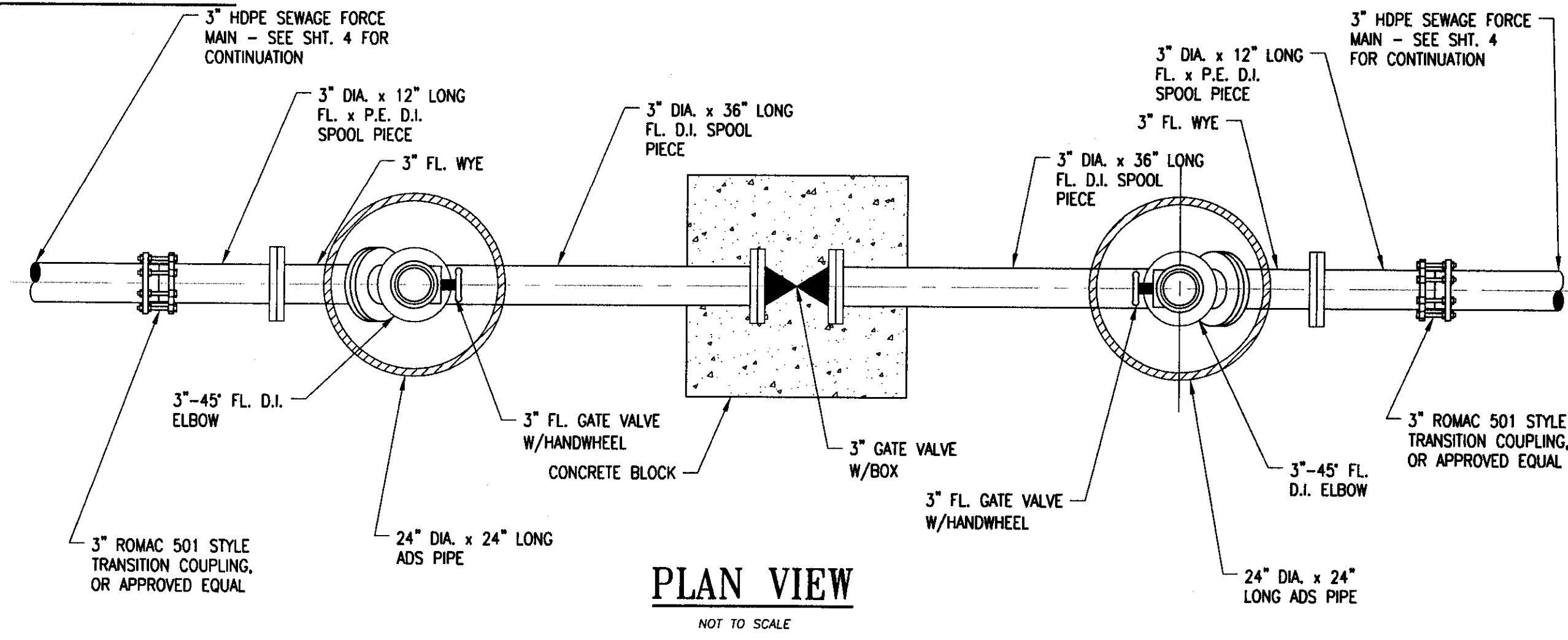
DETAIL FOR NEW 1 1/2" CONNECTION TO WATER MAIN

NOT TO SCALE



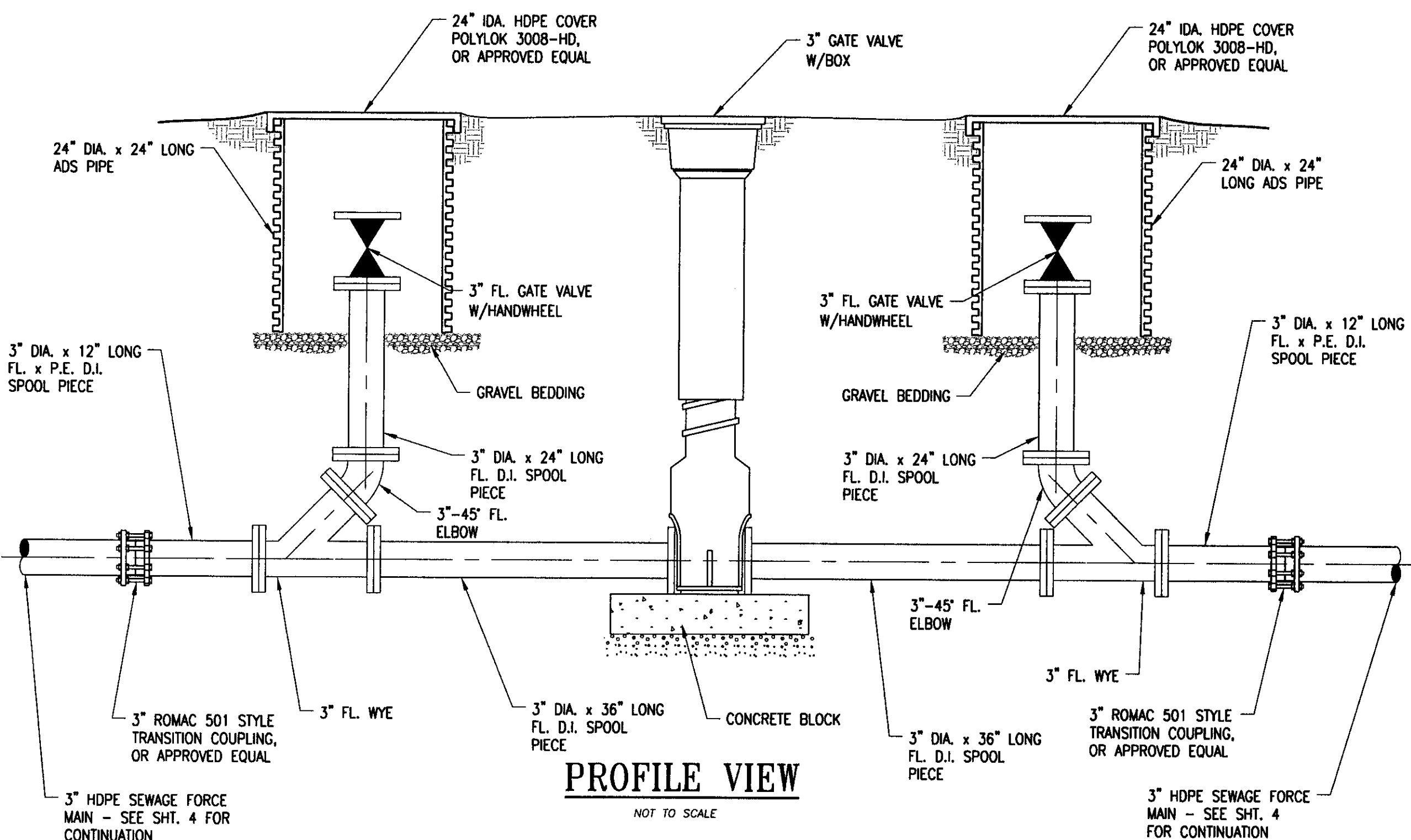
DETAIL FOR NEW 1 1/2" SERVICE CONNECTION TO WATER MAIN

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

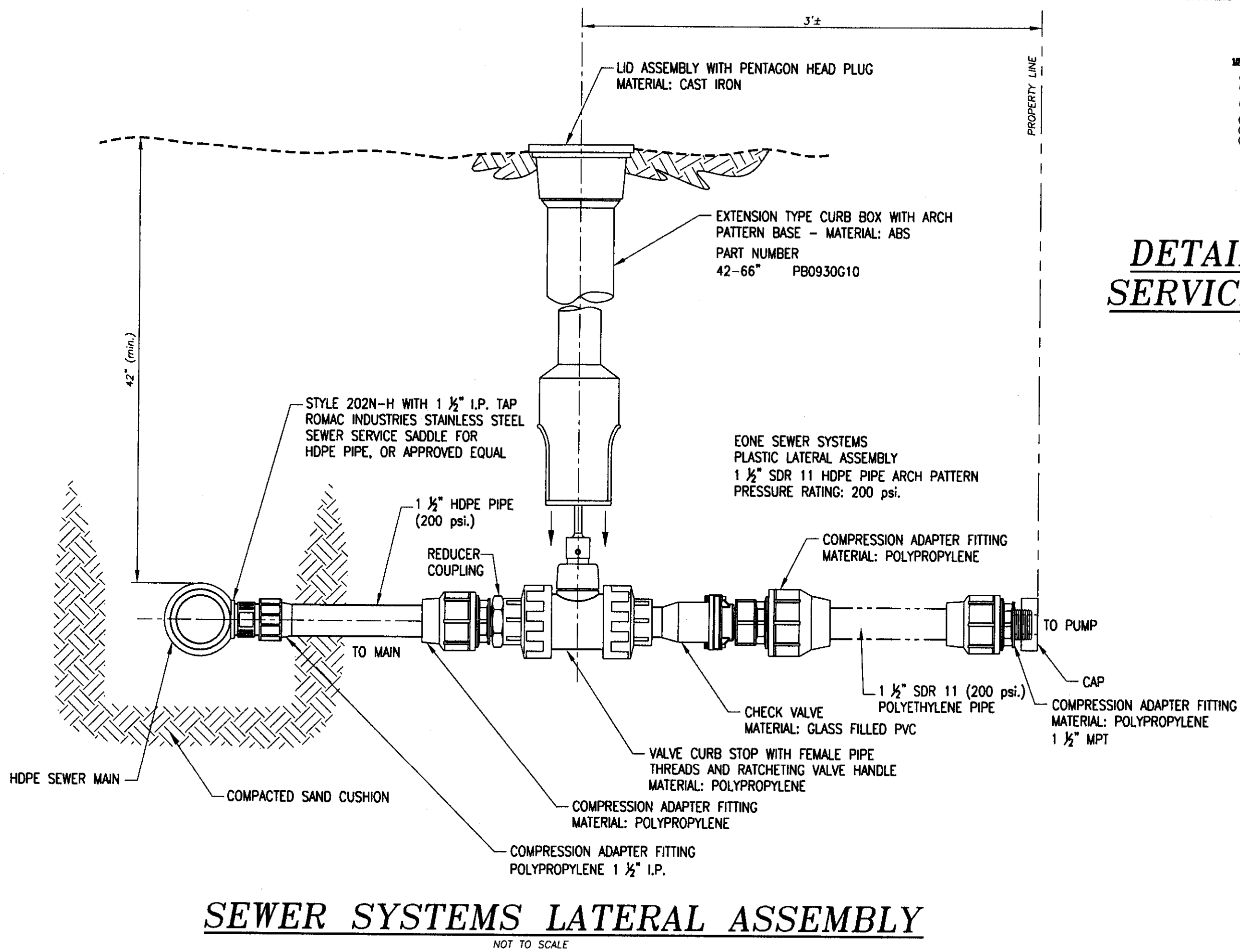


PROFILE VIEW

NOT TO SCALE

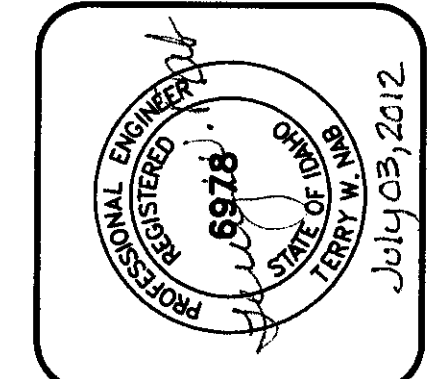
TYPICAL FLUSHING STATION

NOT TO SCALE



SEWER SYSTEMS LATERAL ASSEMBLY

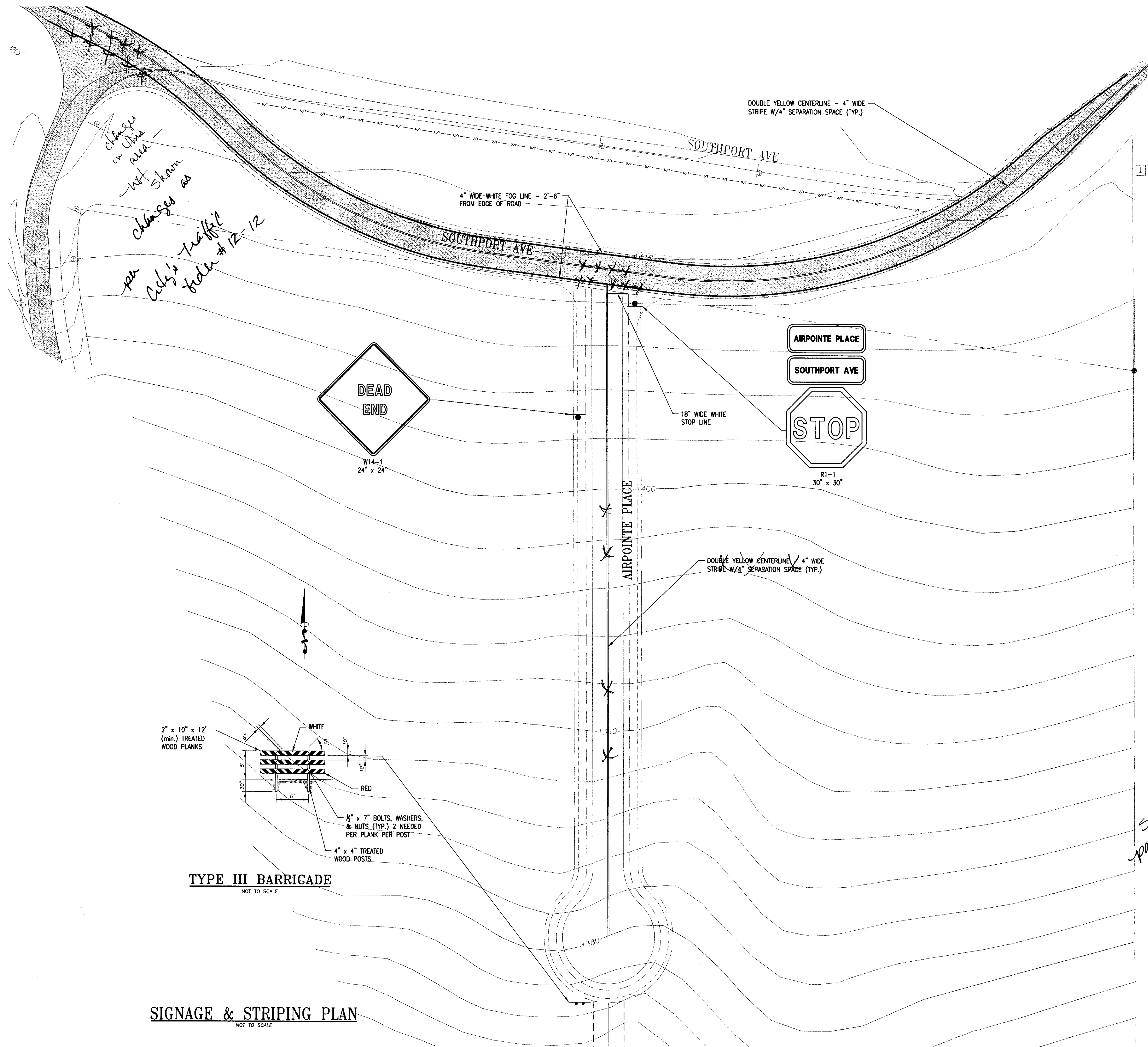
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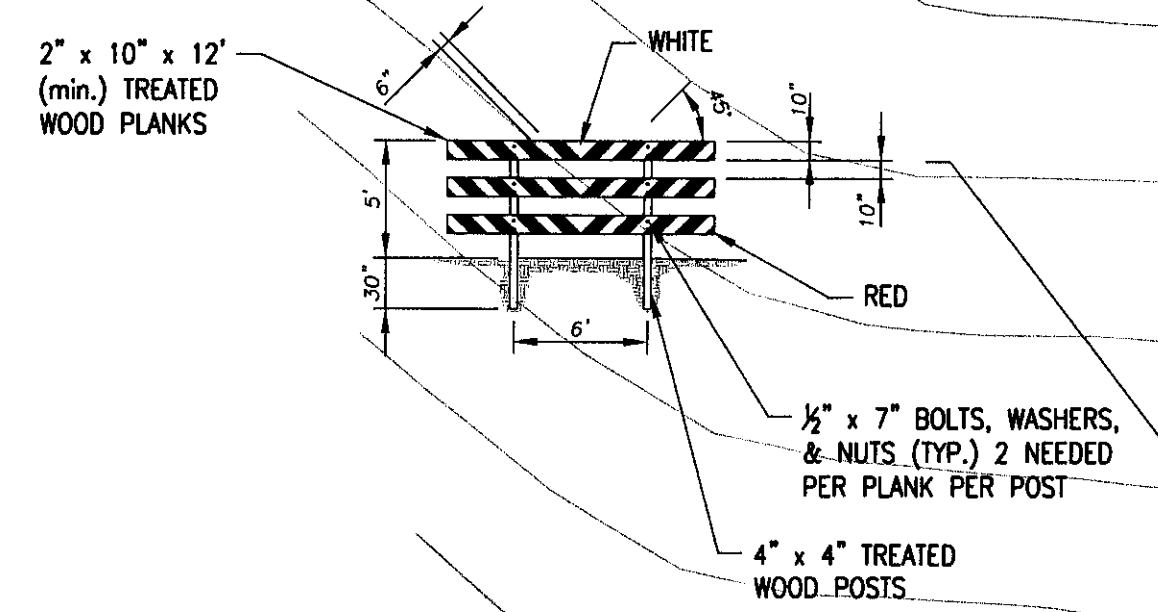
PROGRESSIVE ENGINEERING GROUP, INC
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 1208 IDAHO STREET
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 AIRPOINTE BUSINESS PARK
 DETAILS
 LEWISTON, IDAHO 83501

DRAWN BY: JAY	CHECKED BY: TWN
DESIGNED BY: TWN	
DATE: 06/21/12	
LAST REV:	
PROJECT NO.: 08-005	
SHEET 16 OF 17	



changes in this area - not shown changes as per City's traffic folder # 12-12

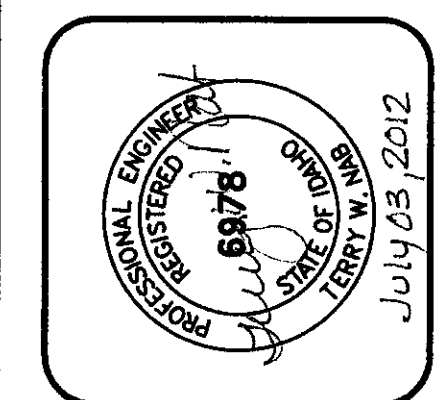


TYPE III BARRICADE
NOT TO SCALE

SIGNAGE & STRIPING PLAN
NOT TO SCALE

Signage & pavement markings as per City's traffic folder # 12-12

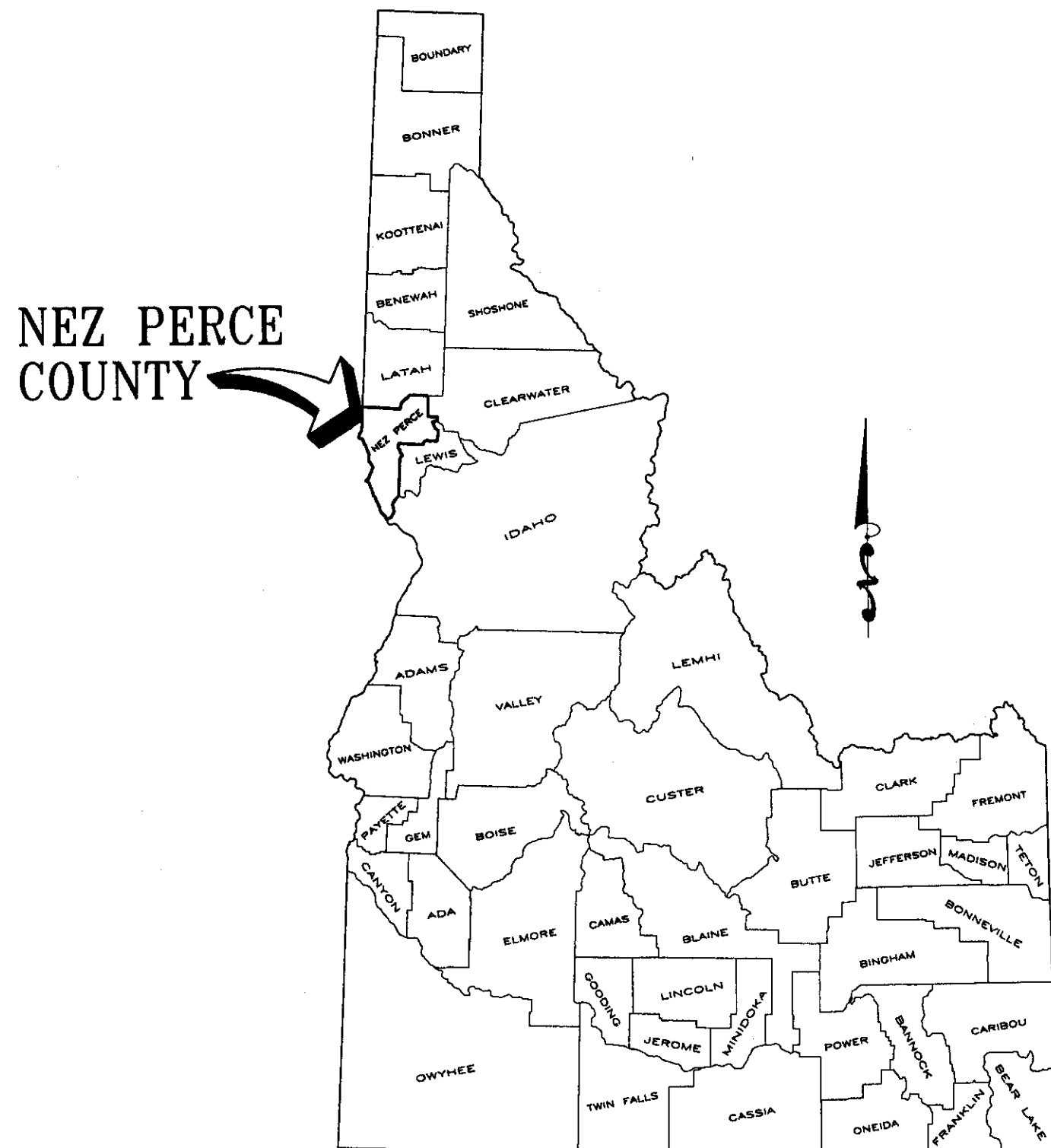
REVISIONS			
No.	DATE	BY	



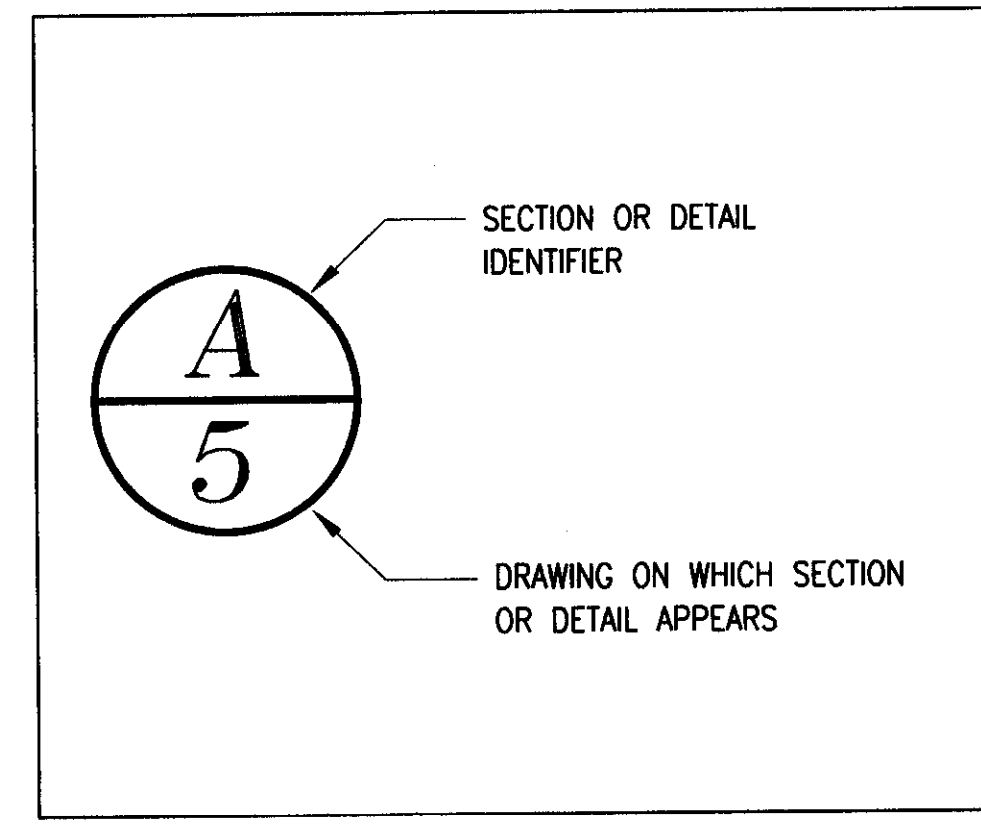
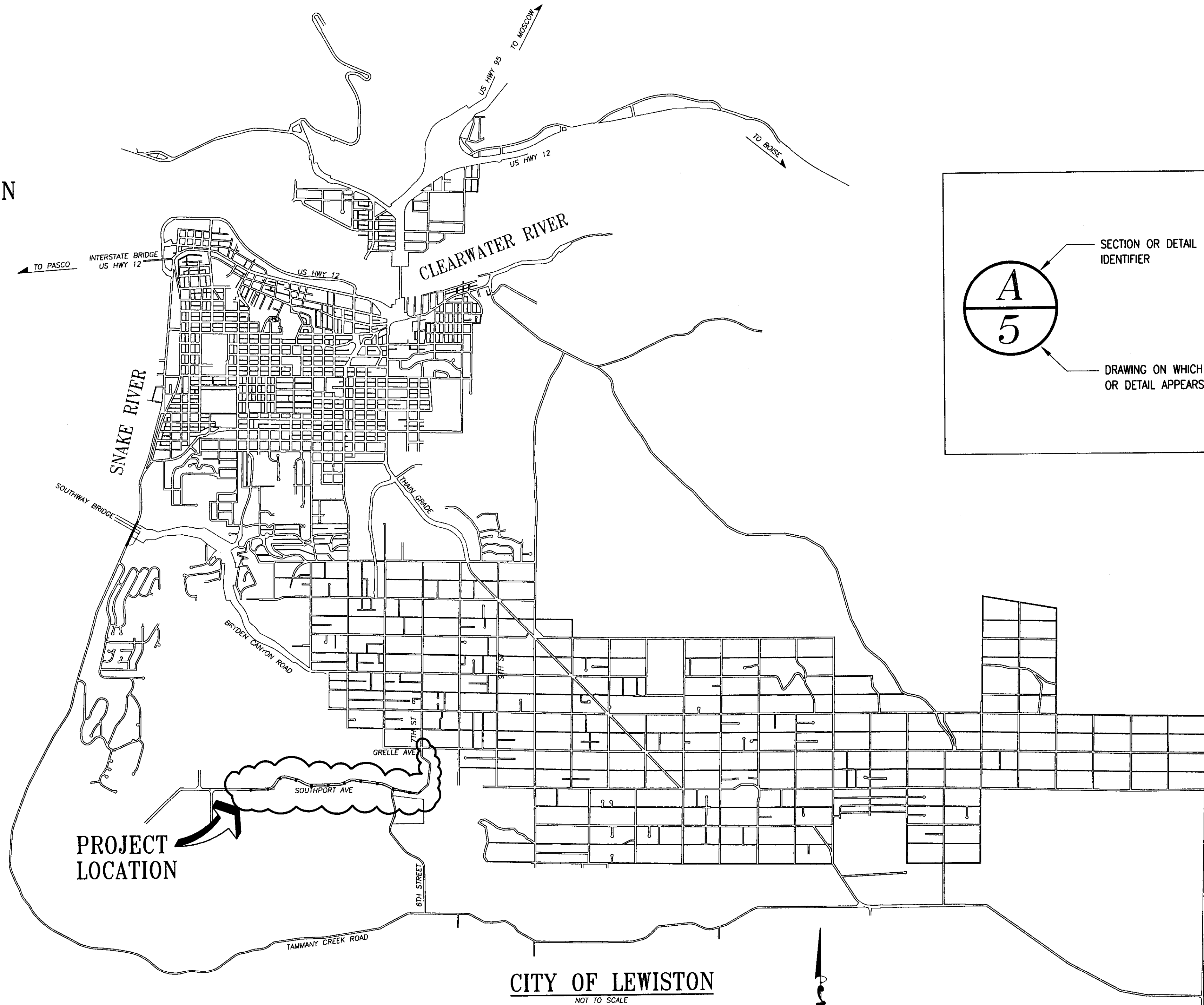
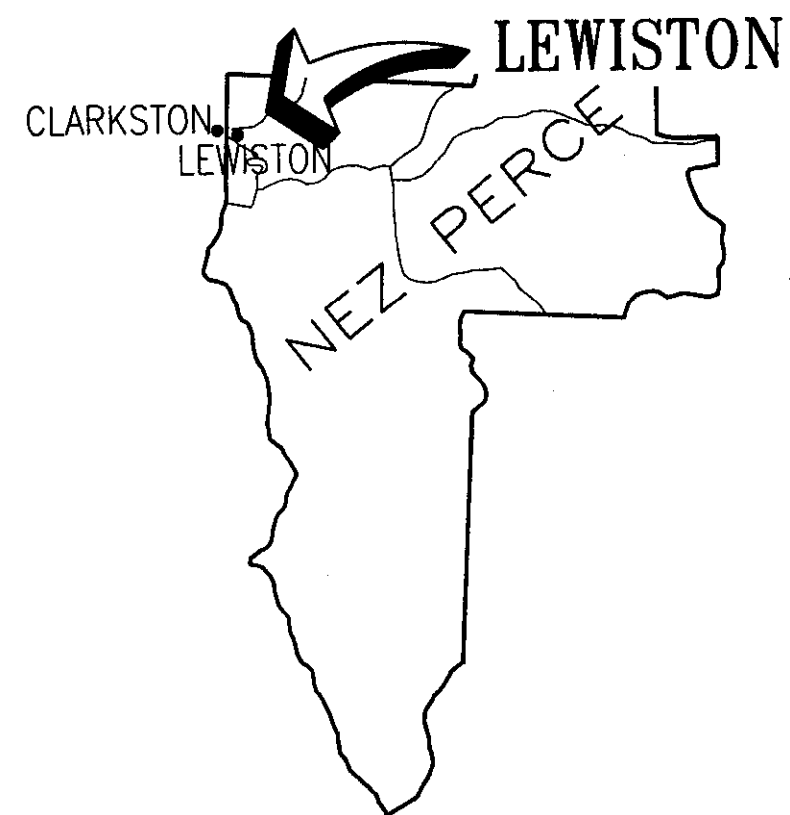
PROGRESSIVE ENGINEERING GROUP, INC
 PLANNING DESIGN & CONSTRUCTION MANAGEMENT
 1208 IDAHO STREET
 LEWISTON, IDAHO 83501
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D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 SIGNAGE & STRIPING PLAN
 LEWISTON, IDAHO 83501

DRAWN BY:	WRE	CHECKED BY:	TWN
DESIGNED BY:	TWN		
DATE:	02/28/11		
LAST REV:			
PROJECT NO.:	08-005		
SHEET 17	OF 17		



LOCATION MAP
NOT TO SCALE



LEGEND

— GAS — GAS —	EXT'G. GAS LINE	○	SANITARY MANHOLE
— E —	EXT'G. UNDERGROUND ELECTRICAL	⊙	WATER MANHOLE
— OHC —	EXT'G. OVERHEAD POWER	□	CATCH BASIN
— T — T — T —	EXT'G. TELEPHONE	⊗	EXT'G. GATE VALVE
— W — W — W — W —	EXT'G. WATER MAIN	⊗	PROPOSED GATE VALVE
— SS — SS —	EXT'G. SANITARY SEWER	⊙	WATER METER
— — — — —	EXT'G. EDGE OF ASPHALT	○	TREE
- - - - -	EXT'G. EDGE OF GRAVEL	⊕	EXT'G. FIRE HYDRANT
- - - - -	EXT'G. EASEMENT	⊕	PROPOSED FIRE HYDRANT
- - - - -	EXT'G. RIGHT-OF-WAY	⊕	POWER POLE
- - - - -	EXT'G. CENTER LINE	⊕	POWER POLE W/LIGHT
- - - - -	EXT'G. CREEK	⊕	LIGHT POLE
— x — x — x — x —	EXT'G. WIRE FENCE	⊕	SIGN POST
— o — o — o — o —	EXT'G. POST FENCE	⊕	TELEPHONE PEDESTAL
— — — — —	PROPOSED WATER MAIN	⊕	MONUMENT
— SS — SS —	PROPOSED SANITARY SEWER	⊕	90° ELBOW W/THRUST BLOCK
— 1800 —	EXT'G. CONTOUR	⊕	45° ELBOW W/THRUST BLOCK
— 1800 —	PROPOSED CONTOUR	⊕	22 ½° ELBOW W/THRUST BLOCK
— [] —	PROPOSED SAWCUT	⊕	11 ½° ELBOW W/THRUST BLOCK
— [] —	PROPOSED ASPHALT	⊕	TEE W/THRUST BLOCK
— [] —	PROPOSED CONCRETE	⊕	CONCENTRIC REDUCER
— [] —	PROPOSED ELEVATION		

TABLE OF CONTENTS

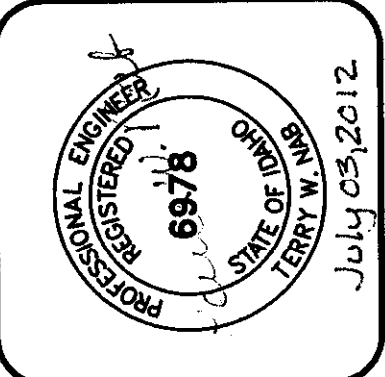
SHEET #	DESCRIPTION
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1	VICINITY, TABLE OF CONTENTS & LEGEND
2	SHEET LAYOUT
3	WATER MAIN PLAN & PROFILE STA. 0+00 TO STA. 11+05
4	WATER MAIN PLAN & PROFILE STA. 11+05 TO STA. 22+05
5	WATER MAIN PLAN & PROFILE STA. 22+05 TO STA. 31+05
6	WATER MAIN PLAN & PROFILE STA. 31+05 TO STA. 41+05
7	WATER MAIN PLAN & PROFILE STA. 41+05 TO STA. 52+00
8	WATER MAIN PLAN & PROFILE STA. 52+05 TO STA. 58+62
9	WATER MAIN PLAN & PROFILE STA. 0+00 TO STA. 12+04
10	WATER MAIN PLAN & PROFILE STA. 5+89 TO STA. 7+00
11	SEWER MAIN PLAN & PROFILE STA. 19+06 TO STA. 10+89
12	SEWER MAIN PLAN & PROFILE STA. 10+89 TO STA. 0+00
13	AIRPOINTE PLACE GRADING PLAN
14	SOUTHPORT AVE. GRADING PLAN
15	DETAILS
16	DETAILS
17	SIGNAGE & STRIPING PLAN

LOCATION OF UNDERGROUND UTILITIES

THE NUMBER & LOCATIONS OF ALL UNDERGROUND UTILITIES NOTED ON CONTRACT PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTORS SHALL MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXACT INFORMATION NECESSARY TO PROTECT ALL UNDERGROUND UTILITIES.

RECORD DRAWING 06/21/12

REVISIONS			
NO.	DATE	BY	DESCRIPTION

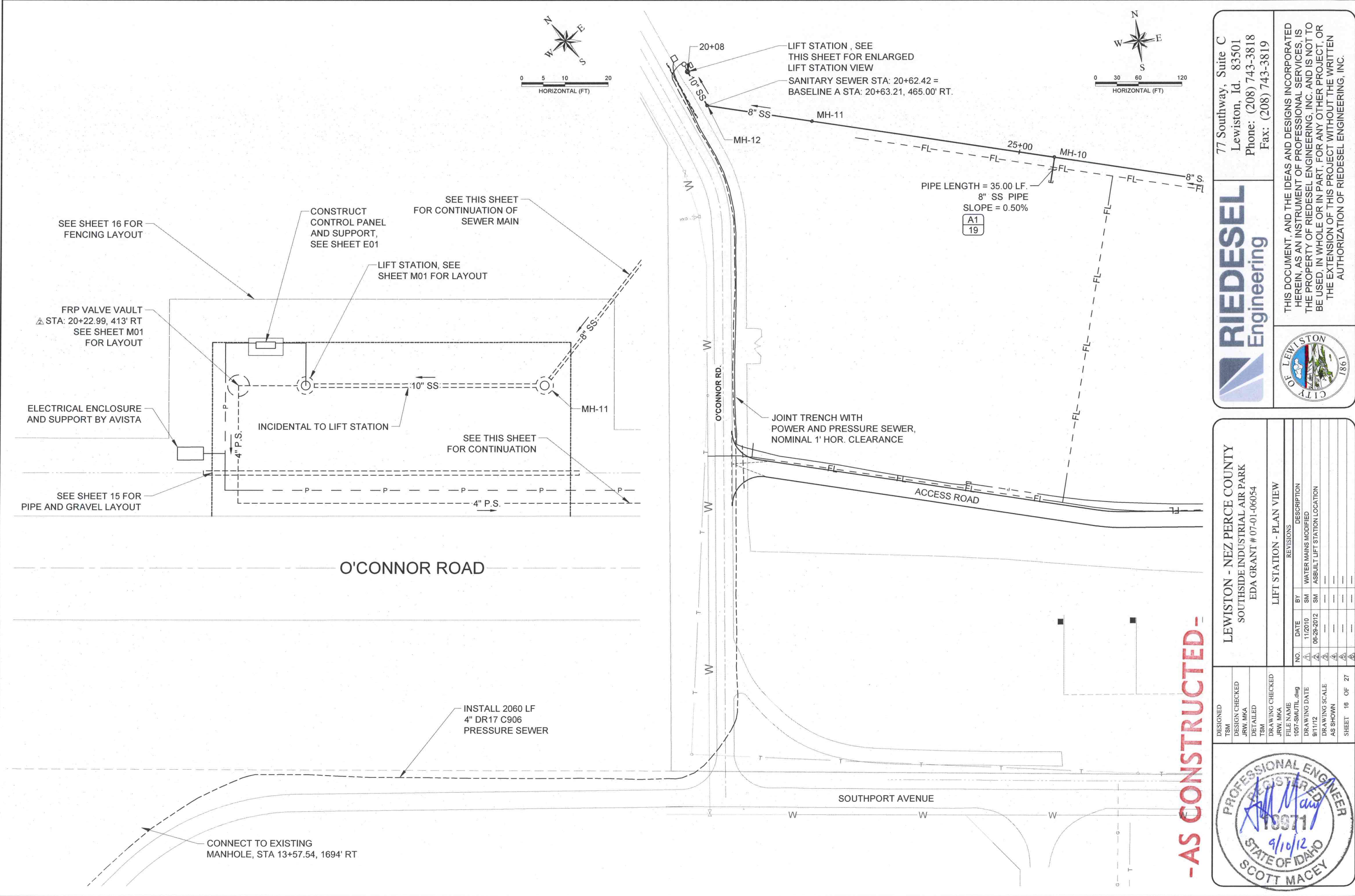
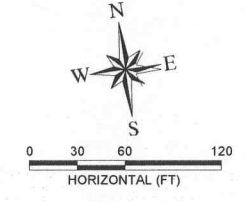
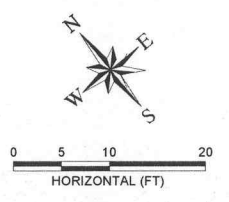


PROGRESSIVE ENGINEERING GROUP, INC.
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D 2 J, INC.
 SOUTHPORT WATER MAIN EXTENSION
 AIRPOINTE BUSINESS PARK
 VICINITY, TABLE OF CONTENTS & LEGEND
 LEWISTON, IDAHO 83501

DRAWN BY:	CHECKED BY:
DESIGNED BY: TWN	
DATE: 02/22/11	
LAST REV:	
PROJECT NO: 08-005	
SHEET 1 OF 17	

Z:\Company_Shared\DRAWING\08-005\ASBUILTS\08-005_SHT_1R_VICINITY.dwg, 1 VICINITY, b/29/2012 11:47:20 AM, Eitl, Epson Stylus Pro, p.c.3, 36x24 horiz, WRE



77 Southway, Suite C
 Lewiston, Id. 83501
 Phone: (208) 743-3818
 Fax: (208) 743-3819

RIEDEL
 Engineering

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LEWISTON - NEZ PERCE COUNTY
 SOUTHSIDE INDUSTRIAL AIR PARK
 EDA GRANT # 07-01-06054

LIFT STATION - PLAN VIEW

REVISIONS	
NO.	DESCRIPTION
1	WATER MAINS MODIFIED
2	ASBUILT LIFT STATION LOCATION

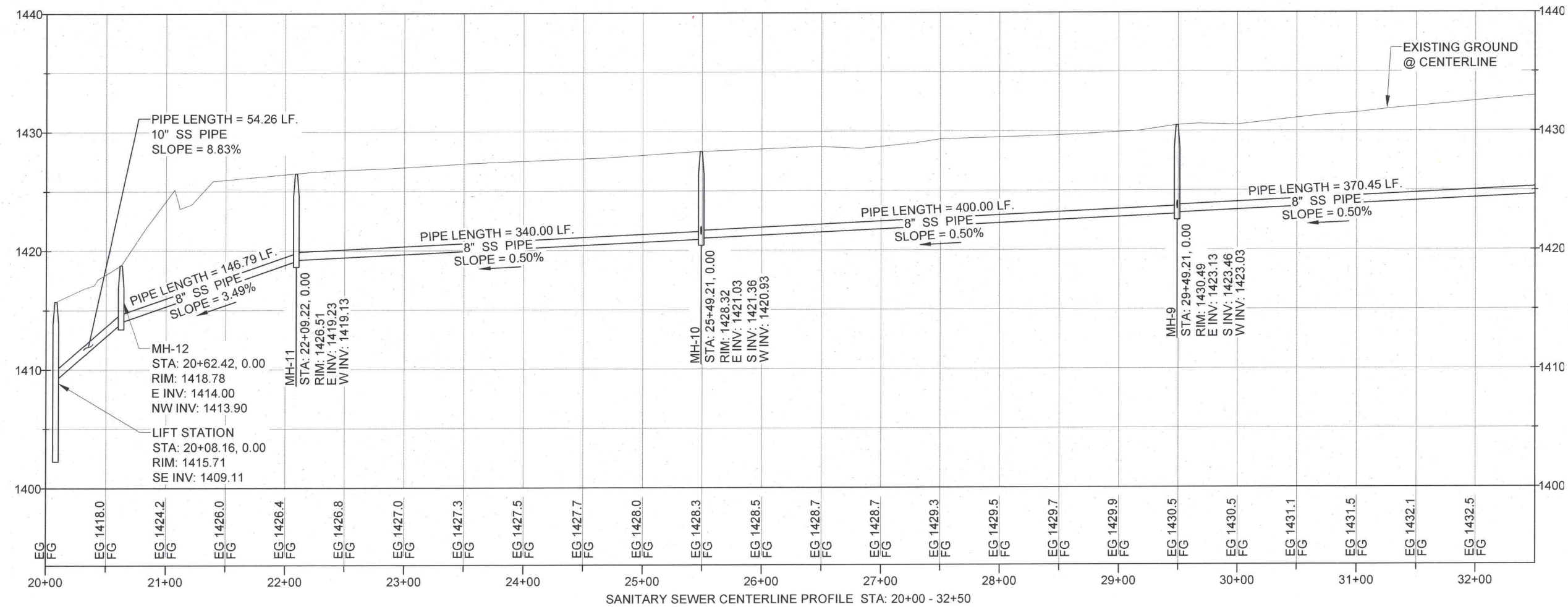
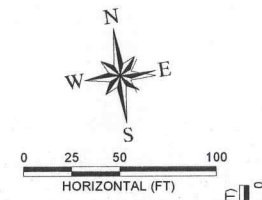
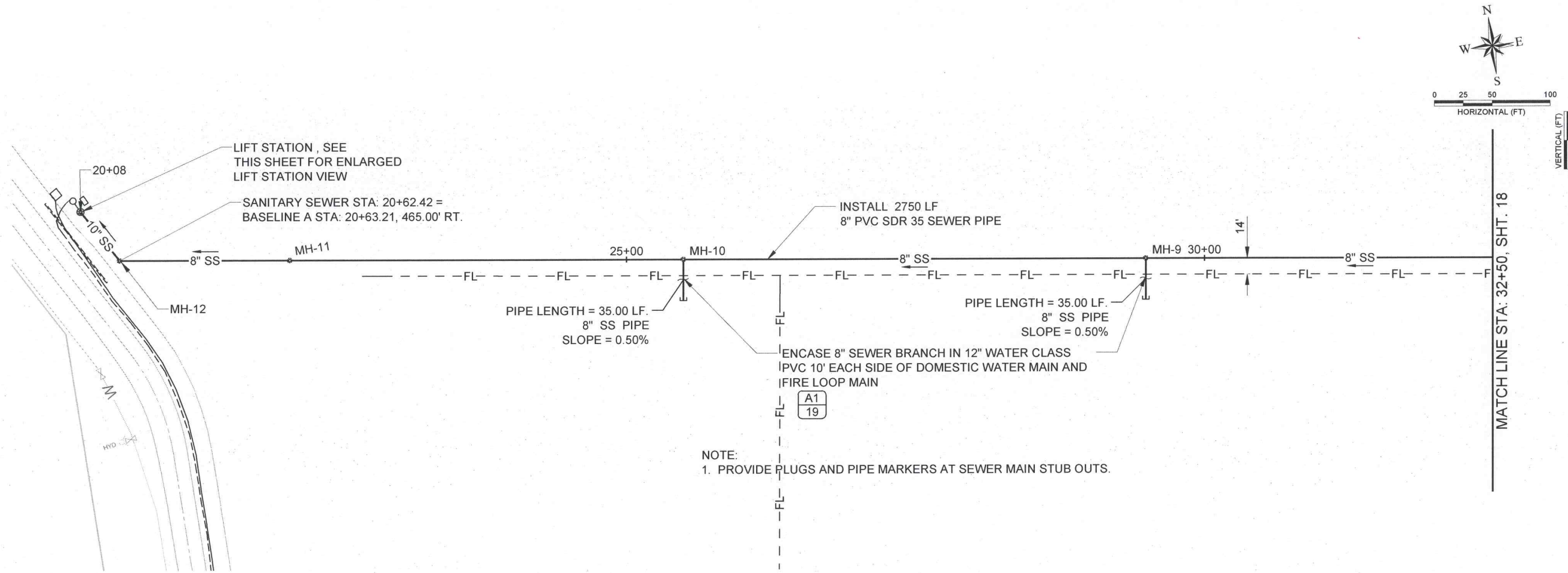
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DESIGN CHECKED	JRW, MKA
DETAILED	TSM
DRAWING CHECKED	JRW, MKA
FILE NAME	1057-SMUTIL.dwg
DRAWING DATE	9/11/12
DRAWING SCALE	AS SHOWN
SHEET	18 OF 27

PROFESSIONAL ENGINEER
 REGISTERED
 10071
 9/10/12
 STATE OF IDAHO
 SCOTT MACEY

E:\PROJECTS\1057 SOUTHIDE INDUS. AIRPARK\CADD\CIVIL 3D\DRAWINGS\1057-SMUTIL.DWG

-AS CONSTRUCTED-

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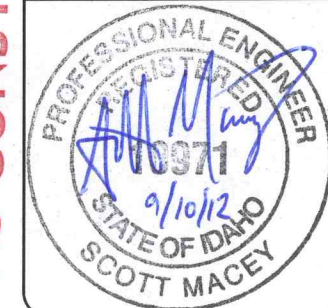
-AS CONSTRUCTED-

LEWISTON - NEZ PERCE COUNTY
SOUTHSIDE INDUSTRIAL AIR PARK
EDA GRANT # 07-01-06054

SANITARY SEWER - STA. 21+00.00-32+50.00

REVISIONS	
NO.	DESCRIPTION
1	WATER MAINS MODIFIED
2	
3	
4	
5	
6	

DESIGNED	TSM
DESIGN CHECKED	JRW, MKA
DETAILED	TSM
DRAWING CHECKED	JRW, MKA
FILE NAME	1057-SMUTL.dwg
DRAWING DATE	9/11/12
DRAWING SCALE	AS SHOWN
SHEET	17 OF 27

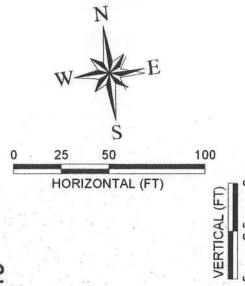
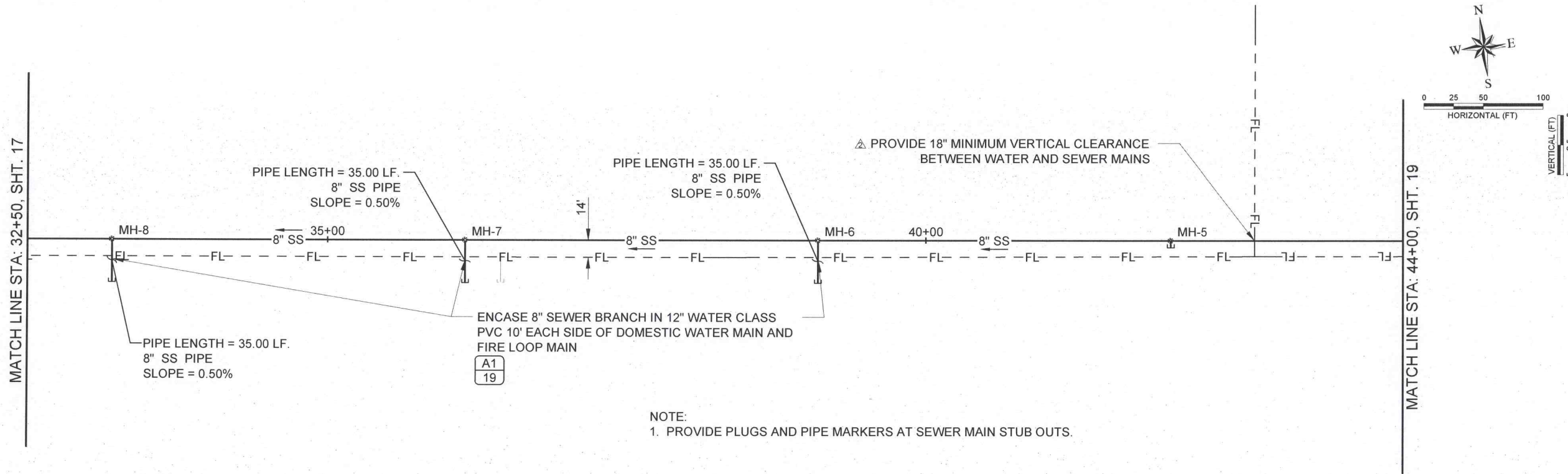


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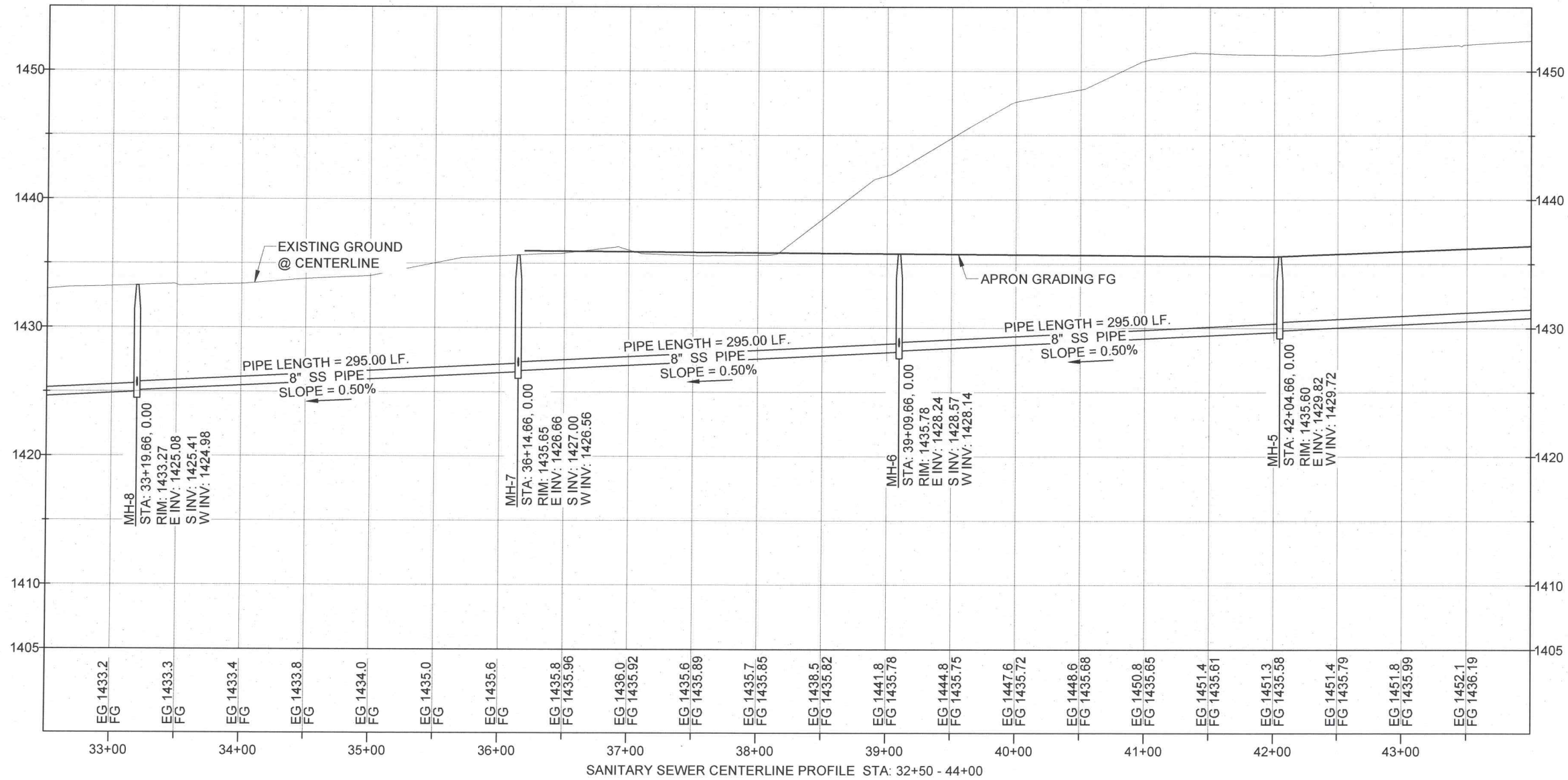
77 Southway, Suite C
Lewiston, Id. 83501
Phone: (208) 743-3818
Fax: (208) 743-3819



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NOTE:
1. PROVIDE PLUGS AND PIPE MARKERS AT SEWER MAIN STUB OUTS.



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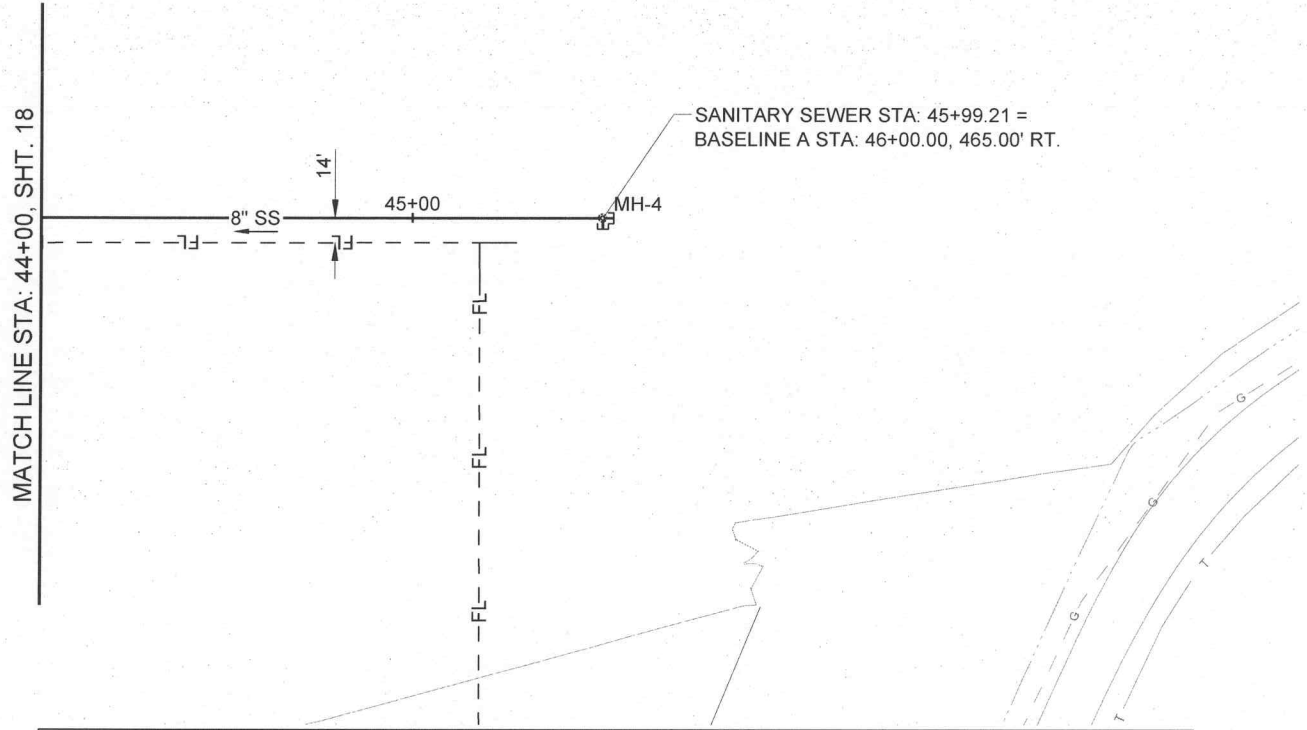
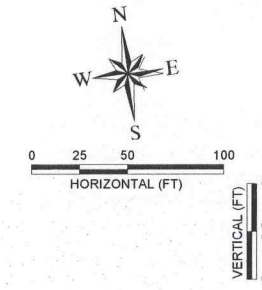
LEWISTON - NEZ PERCE COUNTY
SOUTH SIDE INDUSTRIAL AIR PARK
EDA GRANT # 07-01-06054

SANITARY SEWER - STA. 32+50.00-44+00.00

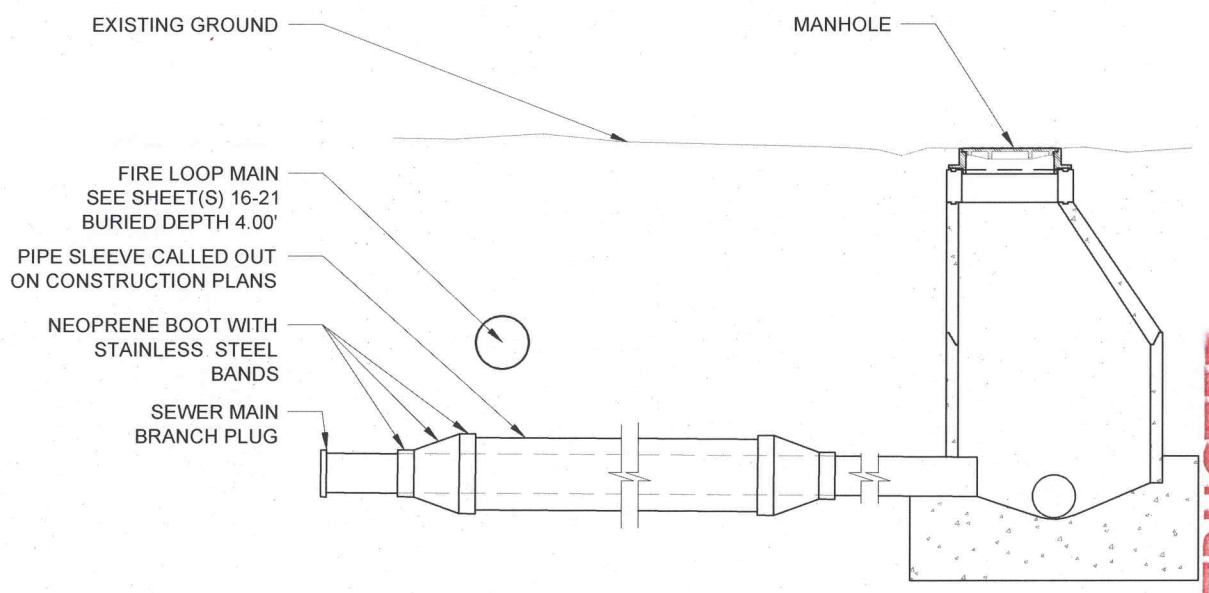
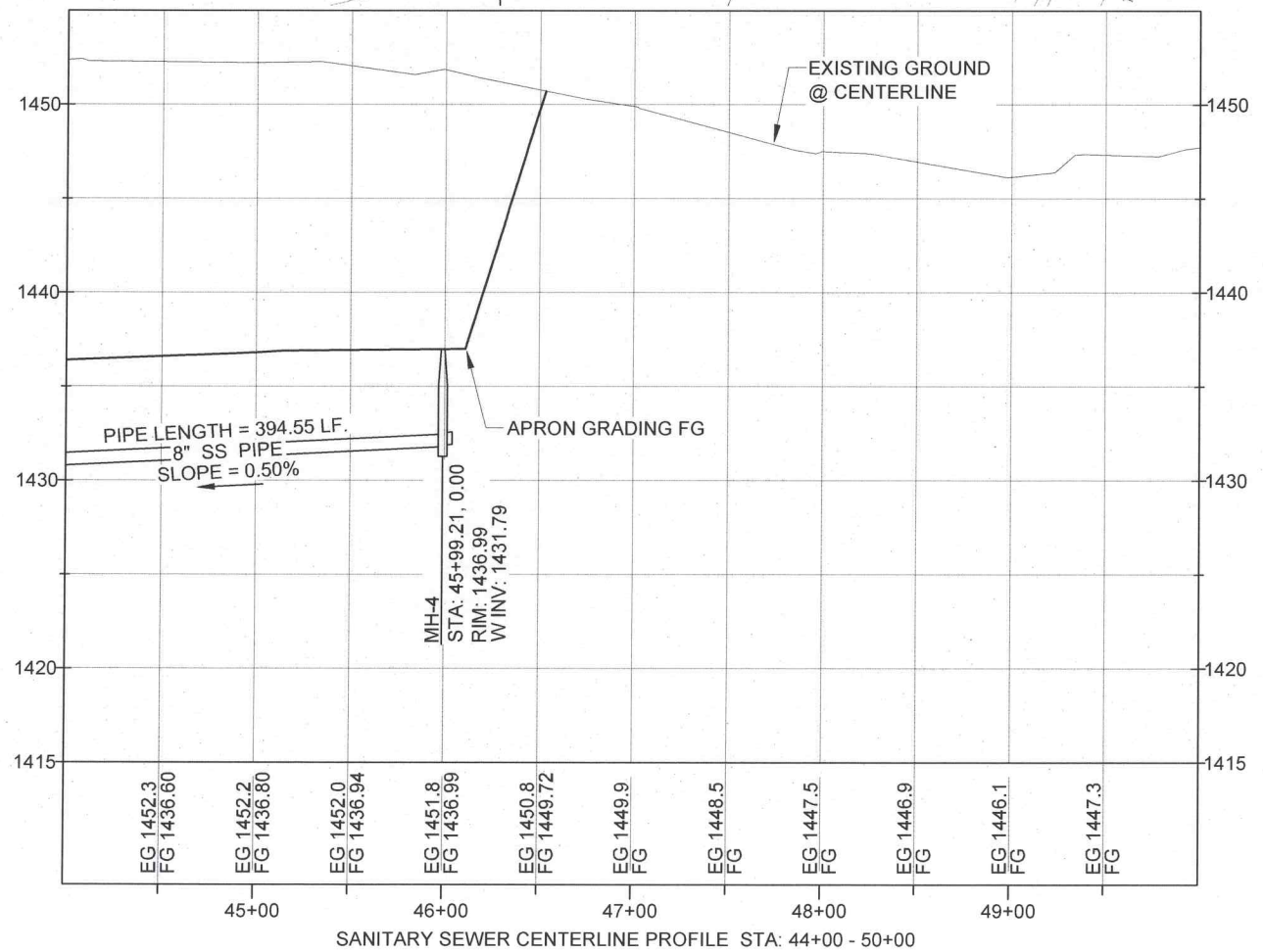
DESIGNED		DESIGN CHECKED		REVISIONS	
TSM	FILE NAME	JRW, MKA	DATE	NO.	DESCRIPTION
	1057-SMUTL.dwg		11/20/10	1	WATER MAINS MODIFIED
			06-29-2012	2	ANNOTATE CROSSING DETAIL
				3	
				4	
				5	

DESIGNED: TSM
DESIGN CHECKED: JRW, MKA
DETAILED: TSM
DRAWING CHECKED: JRW, MKA

FILE NAME: 1057-SMUTL.dwg
DRAWING DATE: 9/11/12
DRAWING SCALE: AS SHOWN
SHEET 18 OF 27



NOTE:
1. PROVIDE PLUGS AND PIPE MARKERS AT SEWER MAIN STUB OUTS.



A1 PIPE CROSSING DETAIL
19 NTS

NOTE:
SEWER MAIN PIPE SLEEVE NOT REQUIRED IF 18" VERT. SEPERATION O.D. TO O.D. IS MAINTAINED. SEE ISPWC STANDARD DETAIL SD-407.

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Lewisston, Id. 83501
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Fax: (208) 743-3819

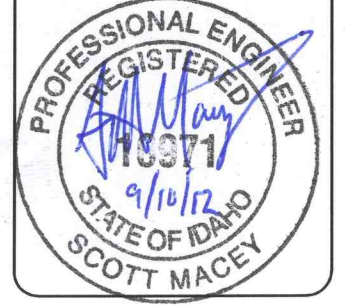
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LEWISTON - NEZ PERCE COUNTY
SOUTH SIDE INDUSTRIAL AIR PARK
EDA GRANT # 07-01-06054

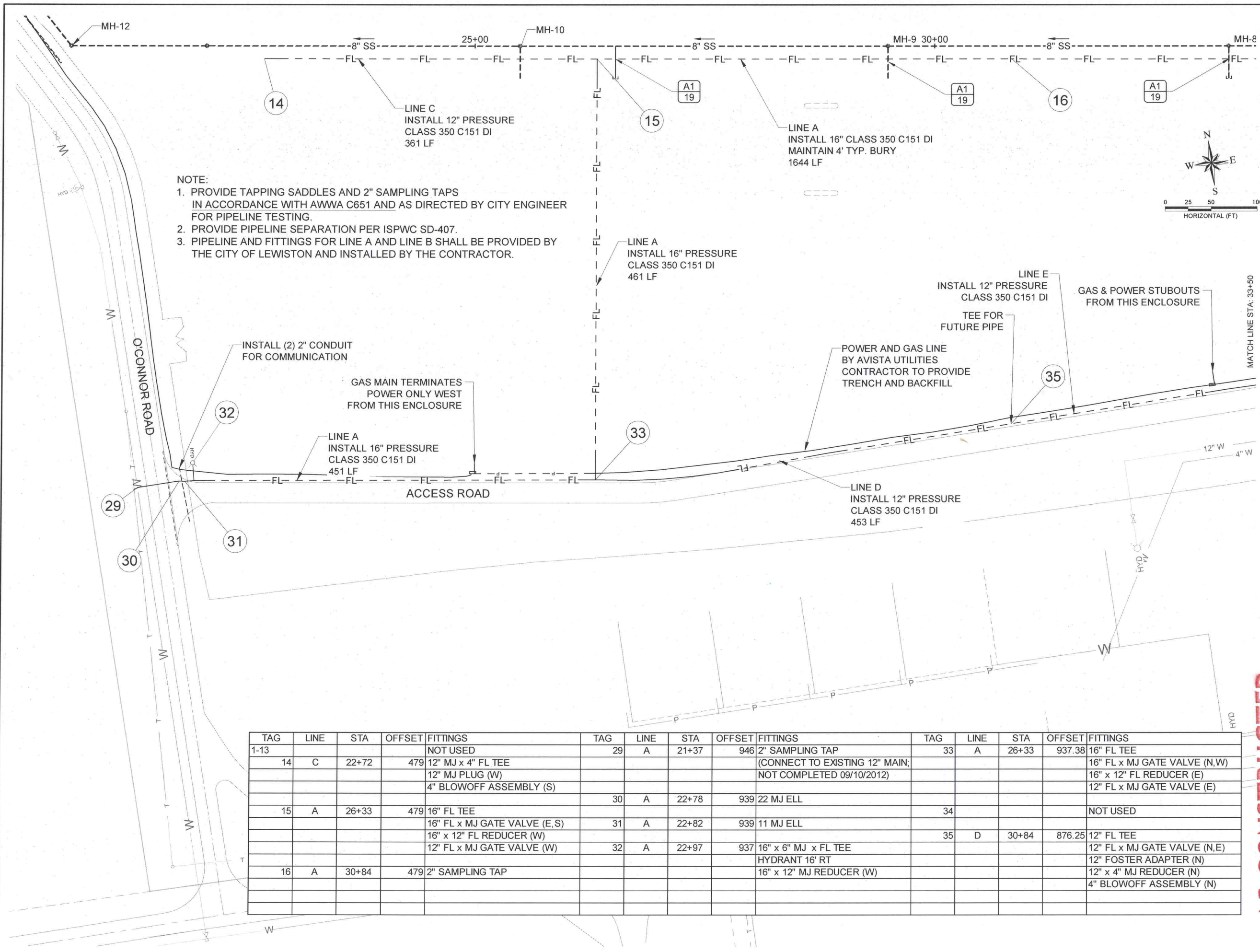
SANITARY SEWER - STA_ 44+00.00-56+00.00

NO.	DATE	BY	DESCRIPTION
1	11/20/10	SM	WATER MAINS MODIFIED

DESIGNED	TSM
DESIGN CHECKED	JRW, MKA
DETAILED	
DRAWING CHECKED	TSM
FILE NAME	1057-SMUTIL.dwg
DRAWING DATE	9/11/12
DRAWING SCALE	AS SHOWN
SHEET	19 OF 27



E:\PROJECTS\1057 SOUTH SIDE INDUS. AIRPARK\ADD\CIVIL\3D\DRAWINGS\1057-FIRE.DWG



- NOTE:
1. PROVIDE TAPPING SADDLES AND 2" SAMPLING TAPS IN ACCORDANCE WITH AWWA C651 AND AS DIRECTED BY CITY ENGINEER FOR PIPELINE TESTING.
 2. PROVIDE PIPELINE SEPARATION PER ISWPC SD-407.
 3. PIPELINE AND FITTINGS FOR LINE A AND LINE B SHALL BE PROVIDED BY THE CITY OF LEWISTON AND INSTALLED BY THE CONTRACTOR.

TAG	LINE	STA	OFFSET	FITTINGS	TAG	LINE	STA	OFFSET	FITTINGS	TAG	LINE	STA	OFFSET	FITTINGS
1-13				NOT USED	29	A	21+37	946	2" SAMPLING TAP	33	A	26+33	937.38	16" FL TEE
14	C	22+72	479	12" MJ x 4" FL TEE 12" MJ PLUG (W) 4" BLOWOFF ASSEMBLY (S)					(CONNECT TO EXISTING 12" MAIN; NOT COMPLETED 09/10/2012)					16" FL x MJ GATE VALVE (N,W) 16" x 12" FL REDUCER (E) 12" FL x MJ GATE VALVE (E)
15	A	26+33	479	16" FL TEE 16" FL x MJ GATE VALVE (E,S) 16" x 12" FL REDUCER (W) 12" FL x MJ GATE VALVE (W)	30	A	22+78	939	22 MJ ELL	34				NOT USED
16	A	30+84	479	2" SAMPLING TAP	31	A	22+82	939	11 MJ ELL	35	D	30+84	876.25	12" FL TEE 12" FL x MJ GATE VALVE (N,E) 12" FOSTER ADAPTER (N) 12" x 4" MJ REDUCER (N) 4" BLOWOFF ASSEMBLY (N)
					32	A	22+97	937	16" x 6" MJ x FL TEE HYDRANT 16" RT 16" x 12" MJ REDUCER (W)					

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77 Southway, Suite C
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LEWISTON - NEZ PERCE COUNTY
SOUTH SIDE INDUSTRIAL AIR PARK
EDA GRANT # 07-01-06034

DOMESTIC WATER AND FIRE LINES.

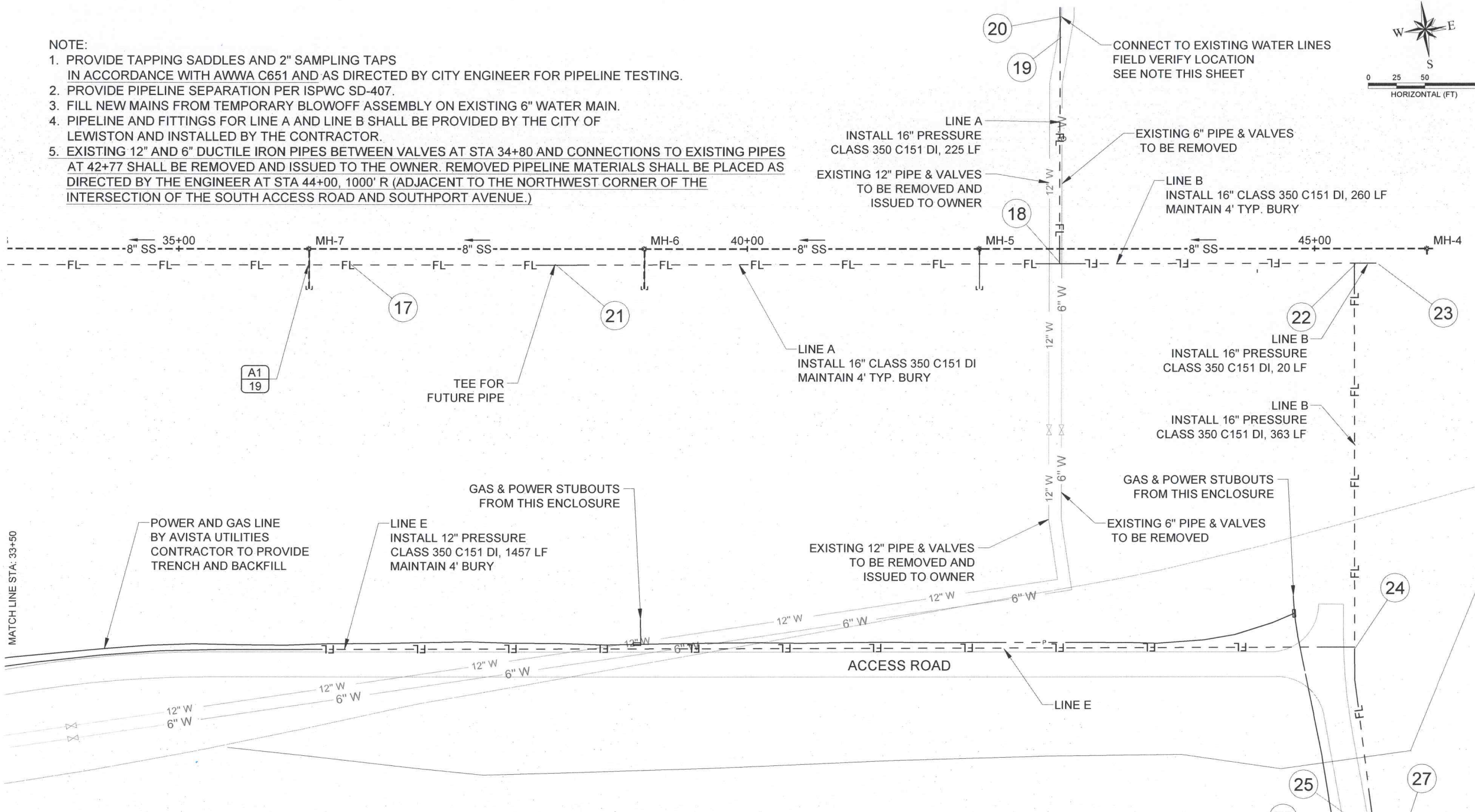
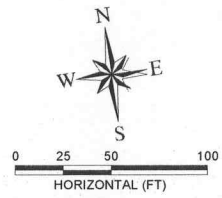
NO.	DATE	BY	DESCRIPTION
1	11/2010	SM	WATER MAINS MODIFIED
2	06-25-2012	SM	ADDENDA AND WATER MAIN CHANGES
3	09-10-2012	SM	ANNOTATE FUTURE PLANNED WORK BY CITY

DESIGNED: TSM
DESIGN CHECKED: JRW, MKA
DETAILED: TSM
DRAWING CHECKED: JRW, MKA
FILE NAME: 1057-FIRE.dwg
DRAWING DATE: 9/11/12
DRAWING SCALE: AS SHOWN
SHEET 20 OF 27

PROFESSIONAL ENGINEER
REGISTERED
10371
9/10/12
STATE OF IDAHO
SCOTT MACEY

NOTE:

1. PROVIDE TAPPING SADDLES AND 2" SAMPLING TAPS IN ACCORDANCE WITH AWWA C651 AND AS DIRECTED BY CITY ENGINEER FOR PIPELINE TESTING.
2. PROVIDE PIPELINE SEPARATION PER ISPWC SD-407.
3. FILL NEW MAINS FROM TEMPORARY BLOWOFF ASSEMBLY ON EXISTING 6" WATER MAIN.
4. PIPELINE AND FITTINGS FOR LINE A AND LINE B SHALL BE PROVIDED BY THE CITY OF LEWISTON AND INSTALLED BY THE CONTRACTOR.
5. EXISTING 12" AND 6" DUCTILE IRON PIPES BETWEEN VALVES AT STA 34+80 AND CONNECTIONS TO EXISTING PIPES AT 42+77 SHALL BE REMOVED AND ISSUED TO THE OWNER. REMOVED PIPELINE MATERIALS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AT STA 44+00, 1000' R (ADJACENT TO THE NORTHWEST CORNER OF THE INTERSECTION OF THE SOUTH ACCESS ROAD AND SOUTHPORT AVENUE.)



TAG	LINE	STA	OFFSET	FITTINGS	TAG	LINE	STA	OFFSET	FITTINGS	TAG	LINE	STA	OFFSET	FITTINGS
17	A	36+62	479	2" SAMPLING TAP	21	A	38+41	479	16" MJ TEE 16" MJ PLUG (N)	24	B	45+37	815	16" x 12" MJ x FL TEE 12" FL x MJ GATE VALVE (W)
18	A	42+76	479	16" FL TEE 16" FL x MJ GATE VALVE (N,E,W) 16" 45 MJ ELL (VERT) x 2 (N) (PROVIDES 18" VERT CLEARANCE)	22	B	45+37	479	16" MJ x FL TEE 16" FL GATE VALVE (S)	25	B	45+58	993	16" x 6" MJ x FL TEE HYDRANT 9" LT
19	A	42+76	276	16" MJ x 4" FL TEE (TEMP) 4" BLOWOFF ASSEMBLY (TEMP) 16" MJ SOLID SLEEVE	23	B	45+47	484.81	16" MJ x 6" FL TEE 16" MJ PLUG (E) 6" x 4" FL REDUCER 4" BLOWOFF ASSEMBLY (S)	26	B	45+63	1017	11 MJ ELL (VERT)
20	A	42+77	267	16" MJ SOLID SLEEVE CONNECT TO EXISTING						27	B	45+65	1026	11 MJ ELL (VERT)
										28	B	45+69	1048	CONNECT TO EXISTING

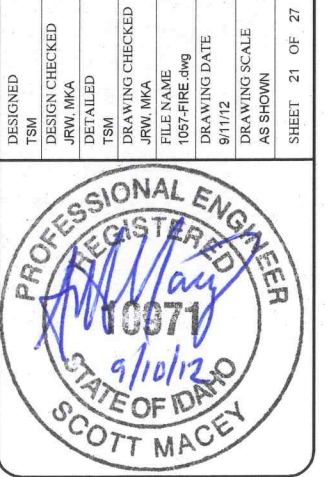
-AS CONSTRUCTED-

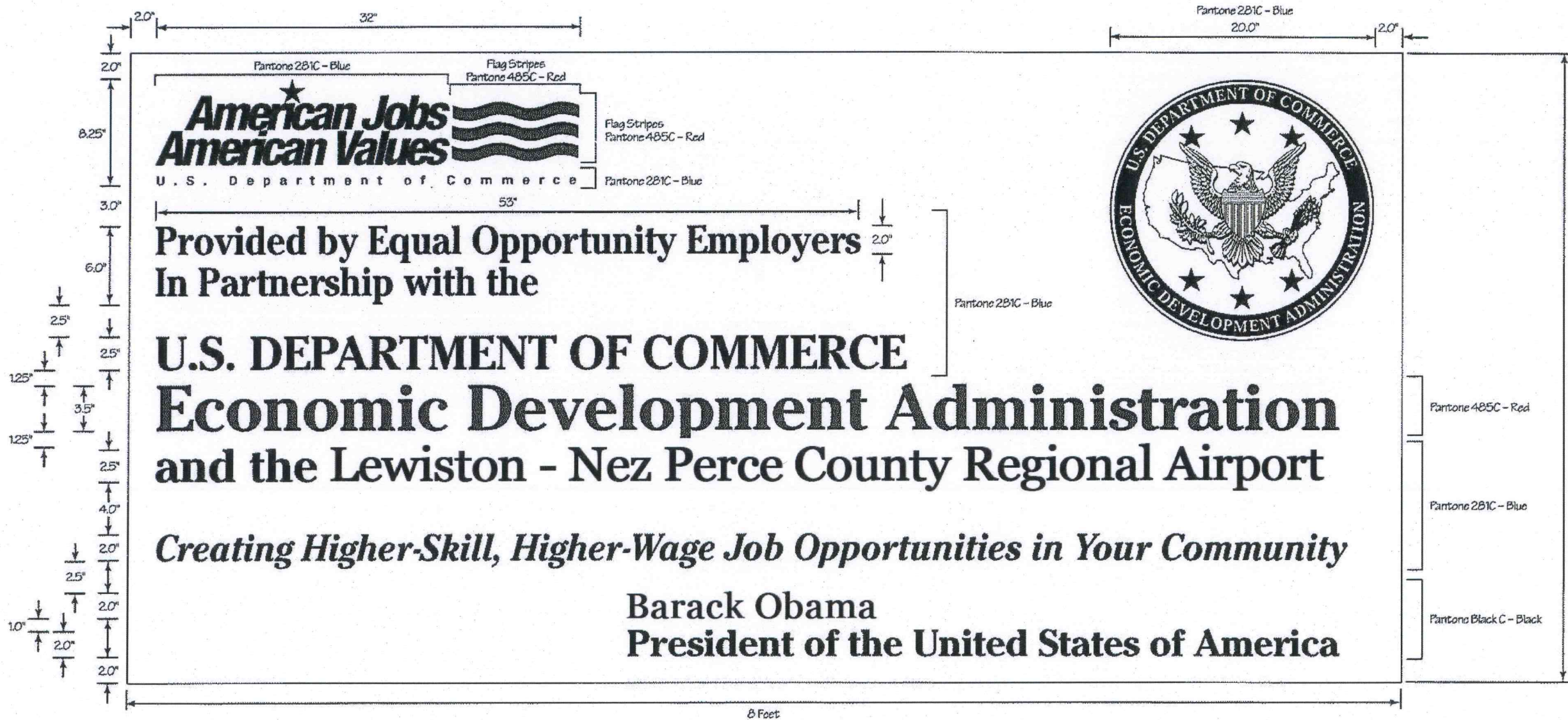
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DESIGNED		DESIGN CHECKED		DETAILED		DRAWING CHECKED	
TSM	JRW	MKA	MKA	TSM	JRW	MKA	MKA
FILE NAME	1057-FIRE.dwg						
DRAWING DATE	9/11/12						
DRAWING SCALE	AS SHOWN						
SHEET	21	OF	27				





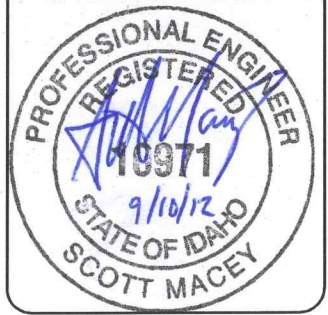
AA EDA SIGN DETAIL
22 N.T.S.

-AS CONSTRUCTED-

LEWISTON - NEZ PERCE COUNTY
SOUTH SIDE INDUSTRIAL AIR PARK
EDA GRANT # 07-01-06054

TRAFFIC CONTROL DETAILS			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	12-10-2010	GMF	REPRINTED & STAMPED

DESIGNED	TSM
DESIGN CHECKED	JRW, MKA
DETAILED	TSM
DRAWING CHECKED	JRW, MKA
FILE NAME	1057-TRAFFIC CONTROL.dwg
DRAWING DATE	9/10/12
DRAWING SCALE	AS SHOWN
SHEET	22 OF 27



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