

CONSTRUCTION PLANS FOR:

**NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75/COMMERCE 75**

MATT SANTINI
MAYOR

CALVIN COOLEY
MAYOR PRO TEM

COUNCIL MEMBERS

KARI HODGE - WARD ONE
CARY ROTH - WARD THREE
GARY FOX - WARD FIVE

JAYCE STEPP - WARD TWO
CALVIN COOLEY - WARD FOUR
TAFF WREN - WARD SIX

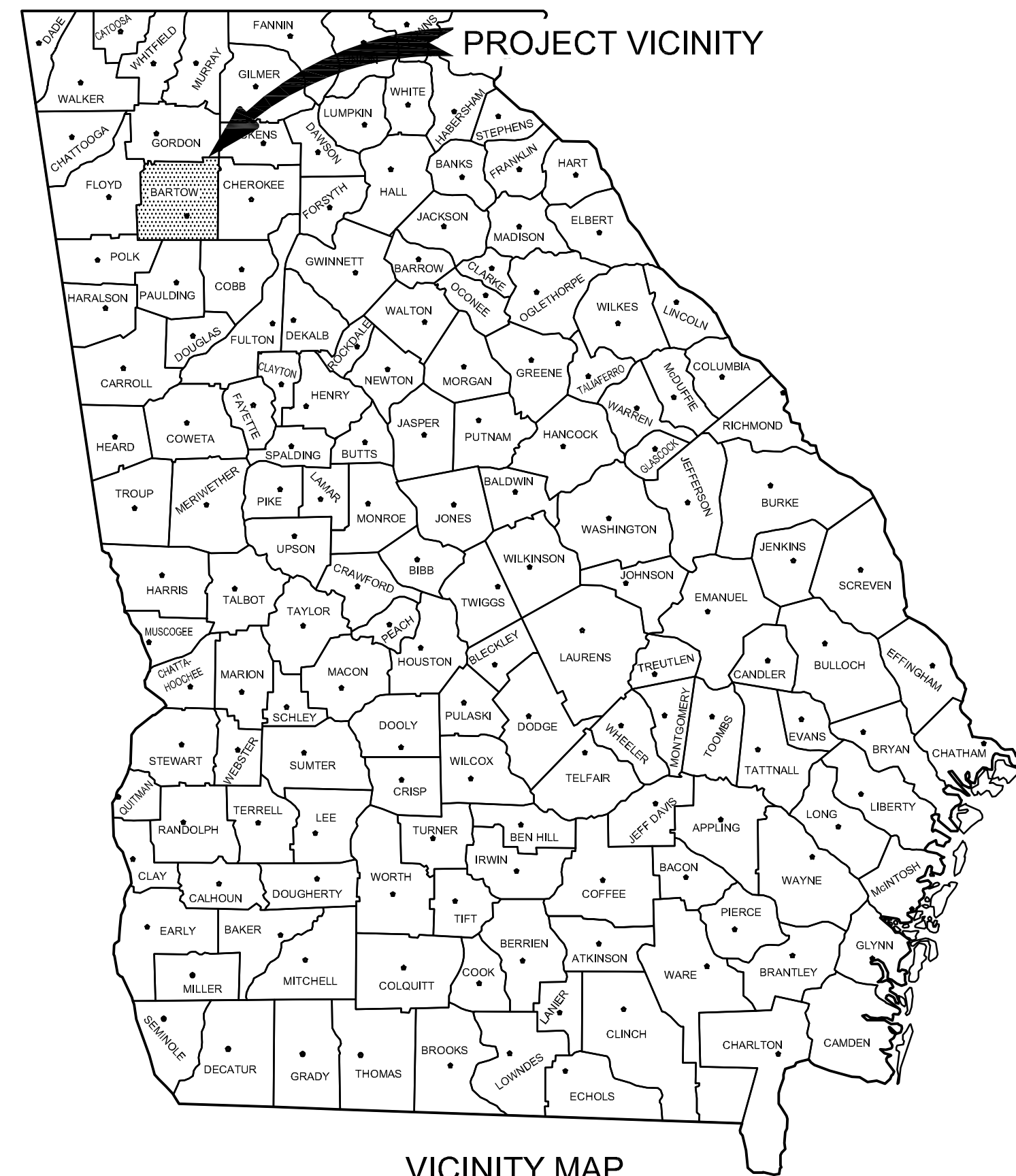
DAN PORTA - CITY MANAGER
JULIA DRAKE - CITY CLERK
MICHAEL DICKSON - GAS SYSTEM DIRECTOR
BRIAN FRIERY - GAS SYSTEM ENGINEER



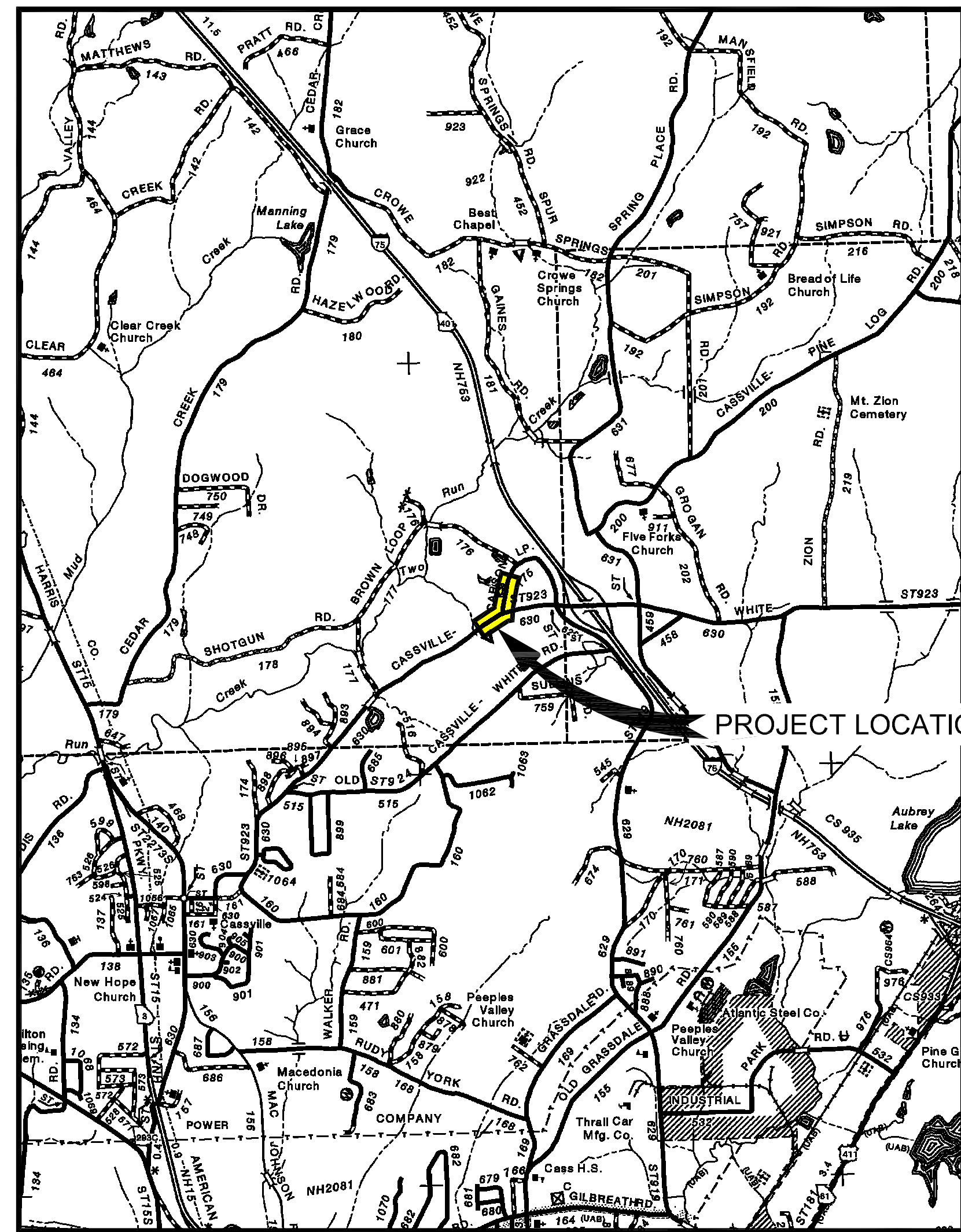
City of Cartersville
G A S S Y S T E M

P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120
Telephone: 770-387-5642 • Fax: 770-387-5638 • www.cityofcartersville.org

PROJECT NO. SP-21-001/SP-21-002 DATE: APRIL 2021



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET DESCRIPTION

SHEET NUMBER

DETAILS:		
LOCATION	.....	DET-01
MAP LEGENDS-GENERAL NOTES	.....	DET-02
MISCELLANEOUS DETAILS	.....	DET-03
2" REGULATING STATION: STATION PLAN AND PROFILE DETAIL	.....	DET-04
2" REGULATING STATION: STATION SITE PLAN	.....	EC-DET-01
SILT & EROSION CONTROL DISTURBED AREA STABILIZATION	.....	EC-DET-02
MISCELLANEOUS SILT & EROSION CONTROL DETAILS	.....	EC-DET-02

SP-21-001: COMMERCE CENTRE AT 75:

CONSTRUCTION PLAN: BEGIN PROJECT TO STA. 31+50	.....	PLN-01
EROSION CONTROL PLAN-PHASE I: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-I
EROSION CONTROL PLAN-PHASE II: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-II
EROSION CONTROL PLAN-PHASE III: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-III

SP-21-002: COMMERCE 75:

CONSTRUCTION PLAN: BEGIN PROJECT TO STA. 31+50	.....	PLN-01
EROSION CONTROL PLAN-PHASE I: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-I
EROSION CONTROL PLAN-PHASE II: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-II
EROSION CONTROL PLAN-PHASE III: BEGIN PROJECT TO STA. 31+50	.....	ERO-01-III

GENERAL NOTES

- Topographic data was obtained from construction plans provided by the Southland Engineering of Cartersville, Georgia by CAD file with the exception of the existing and proposed natural gas facilities owned and operated by the City of Cartersville, Georgia.
- Proposed steel line pipe shall be installed with a cover of 48" from existing grade and shall be installed at greater depths where required by the plans or as directed. Proposed polyethylene line pipe shall be installed with a cover of 36" from existing grade and shall be installed at greater depths where required by the plans or as directed. A minimum 24" separation shall be maintained between the proposed pipe and existing structures and utilities.
- Marking tape shall be installed with a cover of 18" above the center line of all proposed steel and polyethylene pipe. Locate wire shall be installed with a cover of 6" above the center line of all proposed polyethylene pipe.
- Proposed line pipe shall be bored across all paved roadways and driveways unless otherwise called for in the plans. Bores will be paid for at the price bid for bores according to size separate from the line pipe price bid. Bores have been proposed across proposed driveways in the case the driveways have been paved prior to construction, otherwise, the crosses shall be open cut.
- Locations of underground utilities shown on the plans are not guaranteed as to accuracy nor completeness. It shall be the Contractor's responsibility to request field locations through the Utility Protection Center and any utility owners thought to have facilities in the area.
- It shall be the Contractor's responsibility to maintain a superintendent on the project at all times during construction with a thorough knowledge and understanding of the plans and specifications. The Contractor shall provide all necessary surveying, layout staking and expertise required to construct the proposed natural gas facilities at the locations shown in the plans.
- This project will be constructed in two parts. Project No. SP-21-001 will begin at Sta. 0+00 and will extend to Sta. 6+50 and all work will be paid for at the unit prices bid for Project No. SP-21-001 and there will be no additional compensation. Project No. SP-21-002 will begin at Sta. 6+50 and will extend to the end of the project and all work will be paid for at the unit prices bid for Project No. SP-21-002 and there will be no additional compensation.


LEGEND OF NATURAL GAS FACILITIES

— 36" HP GAS —	EXISTING HIGH-PRESSURE MAIN	Ⓐ	PROPOSED MAGNESIUM ANODE
— 36" LP GAS —	EXISTING LOW-PRESSURE MAIN	Ⓜ	EXISTING FLANGED LINE VALVE
— 36" PE GAS —	EXISTING POLYETHYLENE MAIN	Ⓜ	EXISTING WELDED/FUSION LINE VALVE
----- 36" LP GAS -----	EXISTING MAIN TO BE ABANDONED	Ⓜ	PROPOSED FLANGED LINE VALVE
----- 36" PE GAS -----	EXISTING ABANDONED MAIN	Ⓜ	PROPOSED WELDED/FUSION LINE VALVE
[- - - - -]	EXISTING CASING PIPE	Ⓜ	EXISTING FARM TAP REGULATOR
— 36" HP GAS —	PROPOSED HIGH-PRESSURE MAIN	Ⓜ	PROPOSED FARM TAP REGULATOR
— 36" LP GAS —	PROPOSED LOW-PRESSURE MAIN	Ⓜ	EXISTING METER
— 36" PE GAS —	PROPOSED POLYETHYLENE MAIN	Ⓜ	PROPOSED METER
[- - - - -]	PROPOSED CASING PIPE	Ⓜ	EXISTING CATHODIC PROTECTION RECTIFIER
→ FLOW ←	ONE-WAY FEED & DIRECTION	Ⓜ	PROPOSED CATHODIC PROTECTION RECTIFIER
← FLOW →	TWO-WAY FEED & DIRECTION	Ⓜ	EXISTING REGULATING STATION
Ⓜ	EXISTING CATHODIC PROTECTION TEST STATION	Ⓜ	PROPOSED REGULATING STATION
Ⓜ	PROPOSED CATHODIC PROTECTION TEST STATION		
Ⓜ	EXISTING CATHODIC PROTECTION BOND STATION		
Ⓜ	PROPOSED CATHODIC PROTECTION BOND STATION		



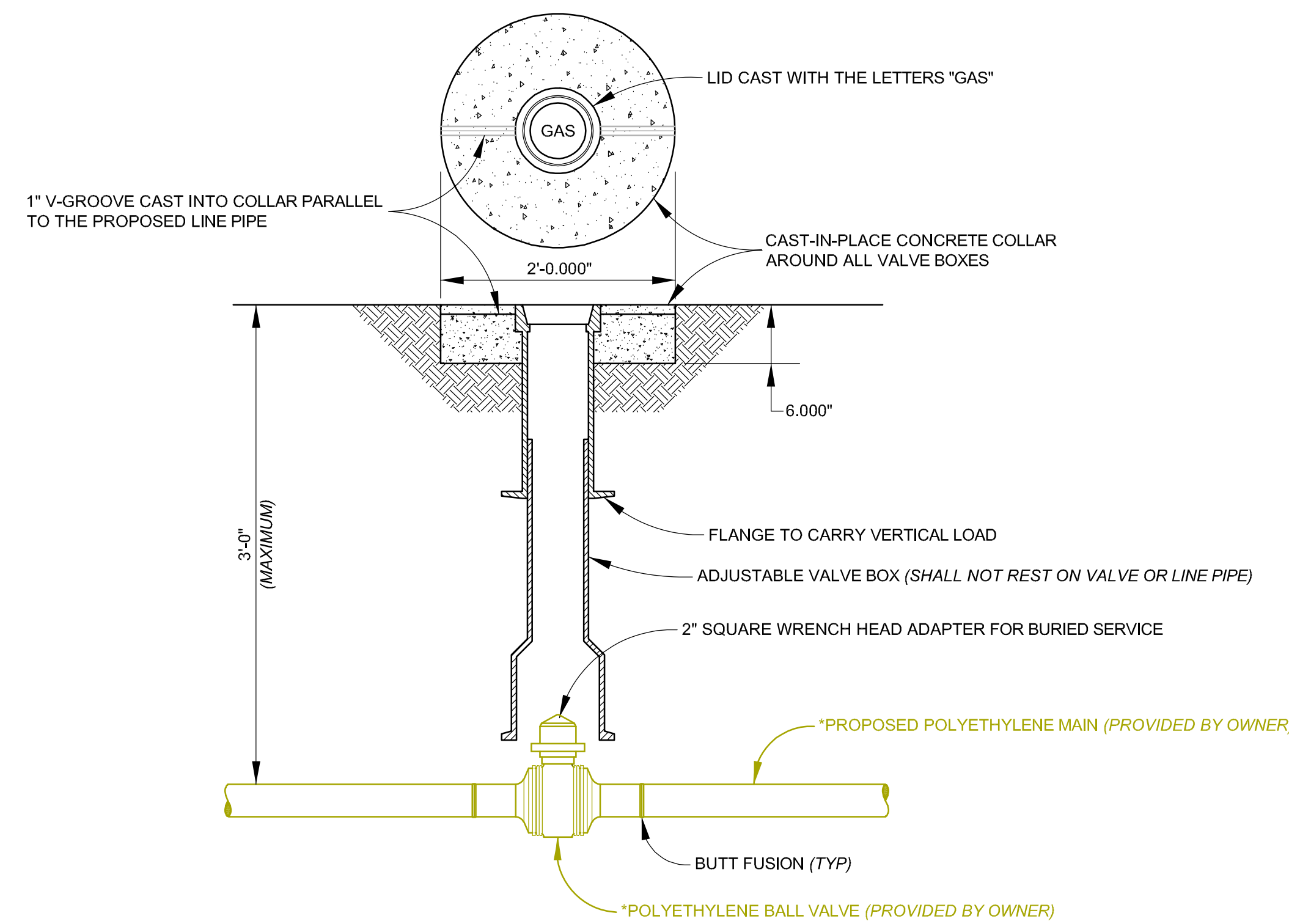
Know what's below.
Call before you dig.

NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75/COMMERCE 75
LOCATION MAP-LEGENDS-GENERAL NOTES

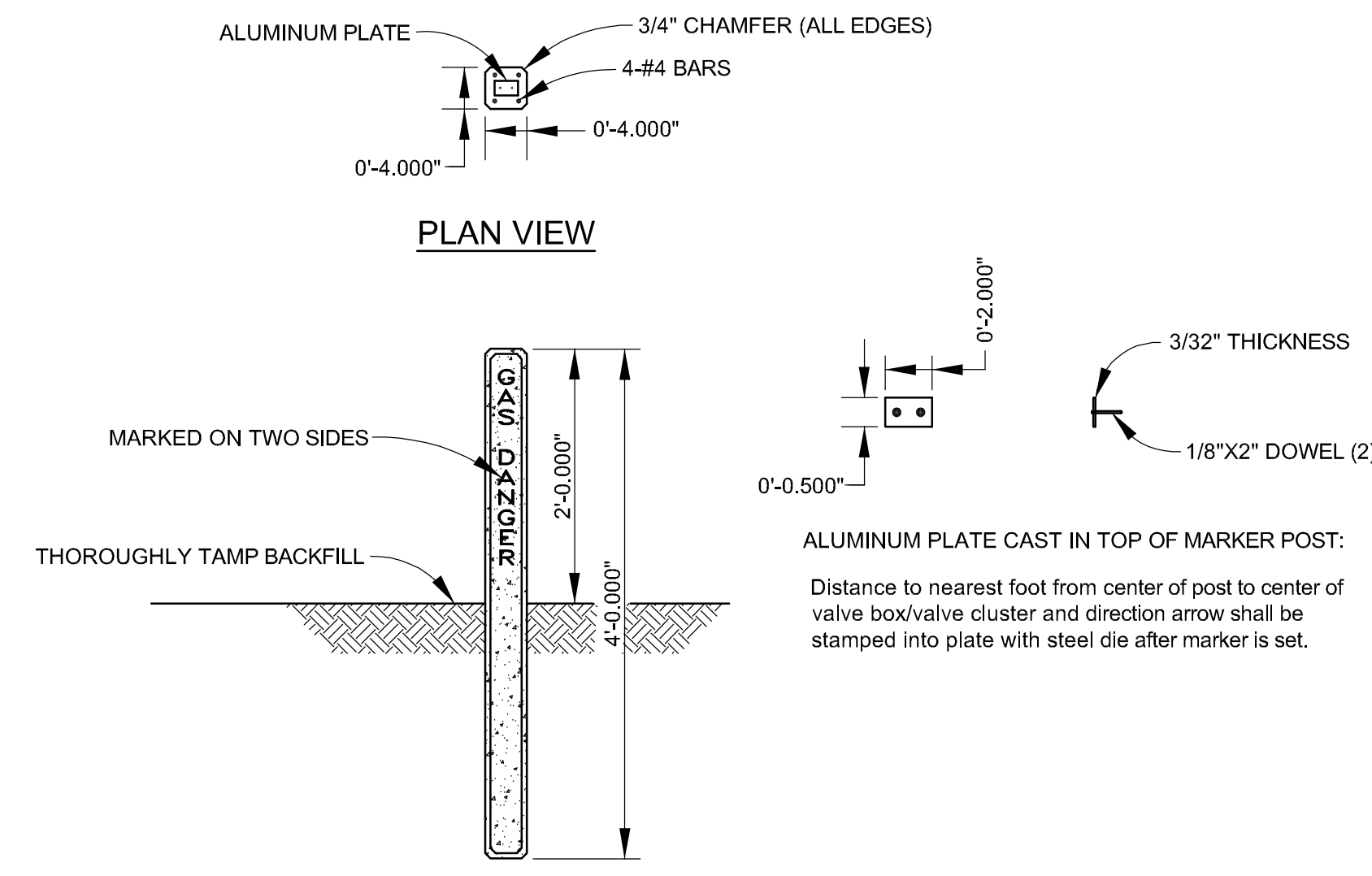

City of Cartersville
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DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: NO SCALE
PROJ NO: SP-21-001/2
SHEET: DET-01

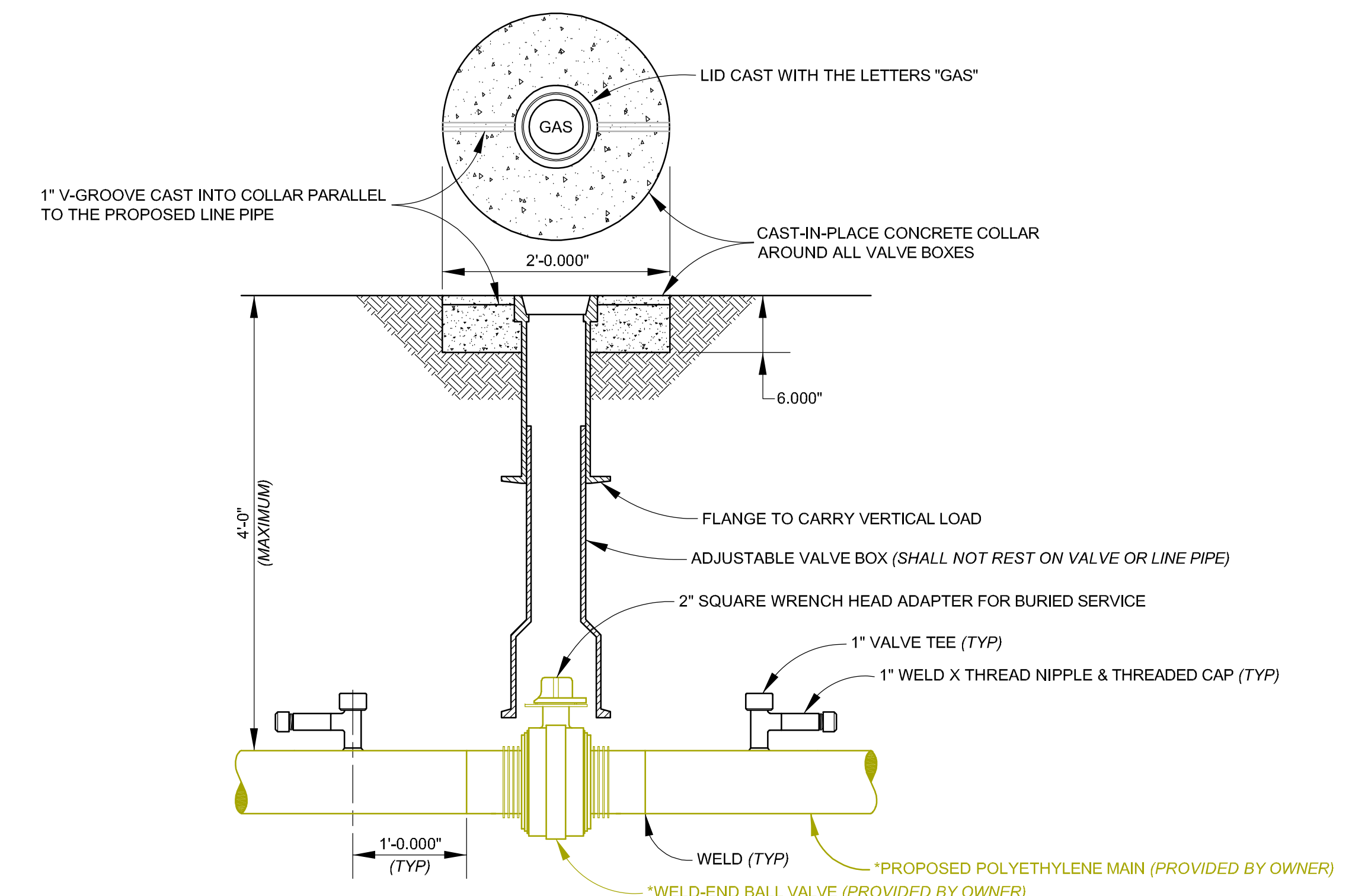
*Note: Items shown in the color "dark yellow" on this plan denote those items provided by the Owner.



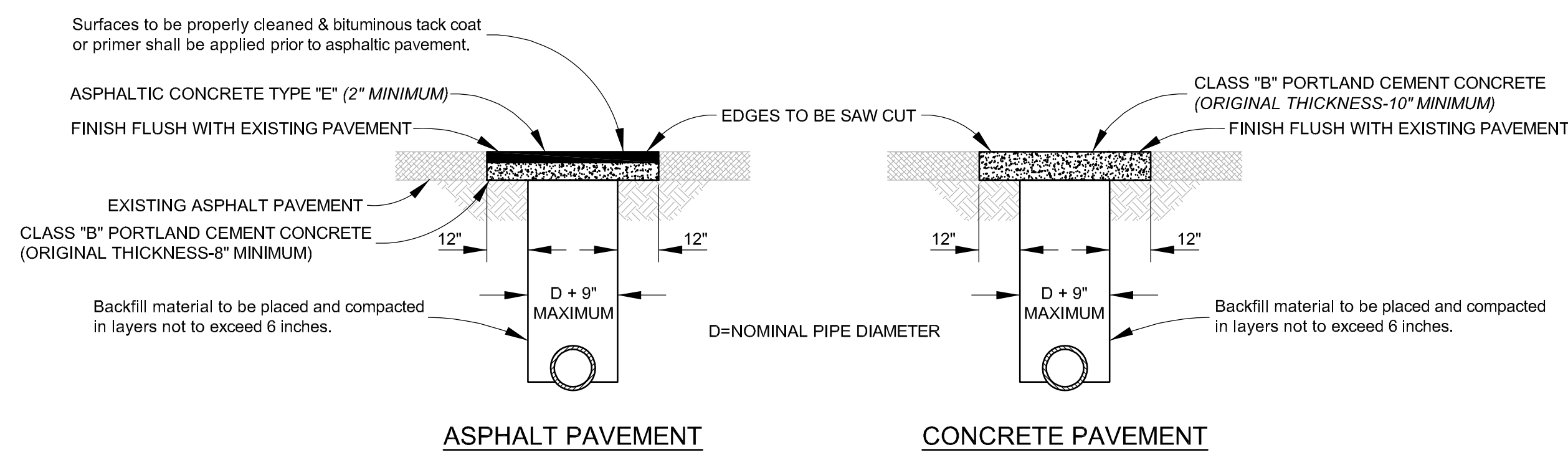
TYPICAL LINE VALVE ASSEMBLY DETAIL
NOT TO SCALE



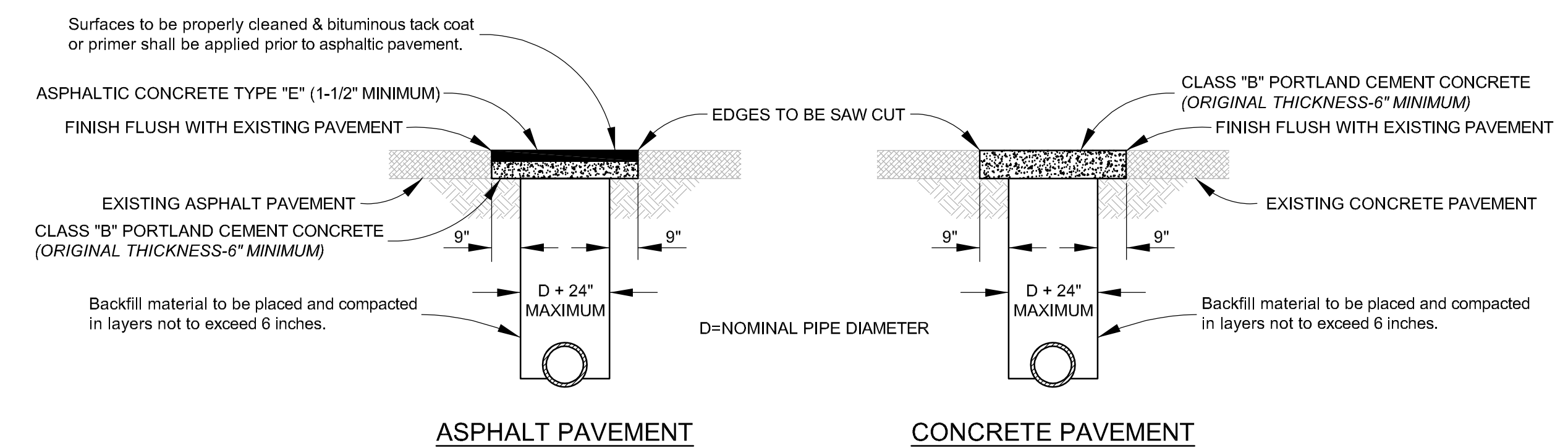
VALVE MARKER DETAIL
NOT TO SCALE




TYPICAL LINE VALVE ASSEMBLY DETAIL
NOT TO SCALE



TYPICAL PAVEMENT REMOVAL DETAILS FOR ROADWAYS
NOT TO SCALE




TYPICAL PAVEMENT REMOVAL DETAILS FOR DRIVEWAYS
NOT TO SCALE

NATURAL GAS MAIN EXTENSION COMMERCE CENTRE AT 75/COMMERCE 75	
MISCELLANEOUS DETAILS	
 <p>City of Cartersville G A S S Y S T E M P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120 Telephone: 770-387-9642 • Fax: 770-387-9538 • www.cityofcartersville.org</p>	DESIGNED: B.S.F. DATE: APRIL 2021 SCALE: NO SCALE PROJ NO: SP-21-001/2 SHEET: DET-02

**NATURAL GAS MAIN EXTENSION
COMMERCE 75**

2" REGULATING STATION

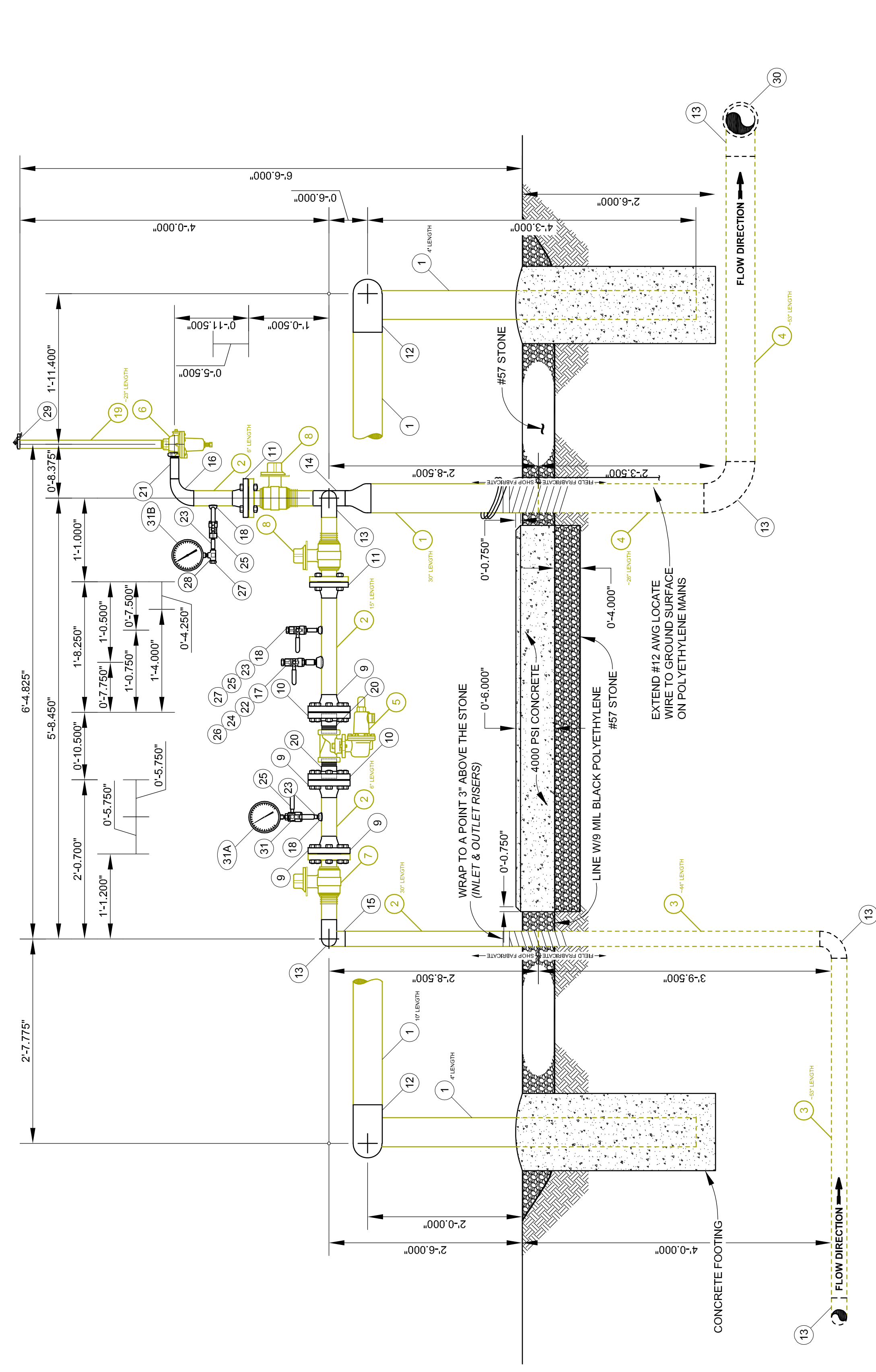
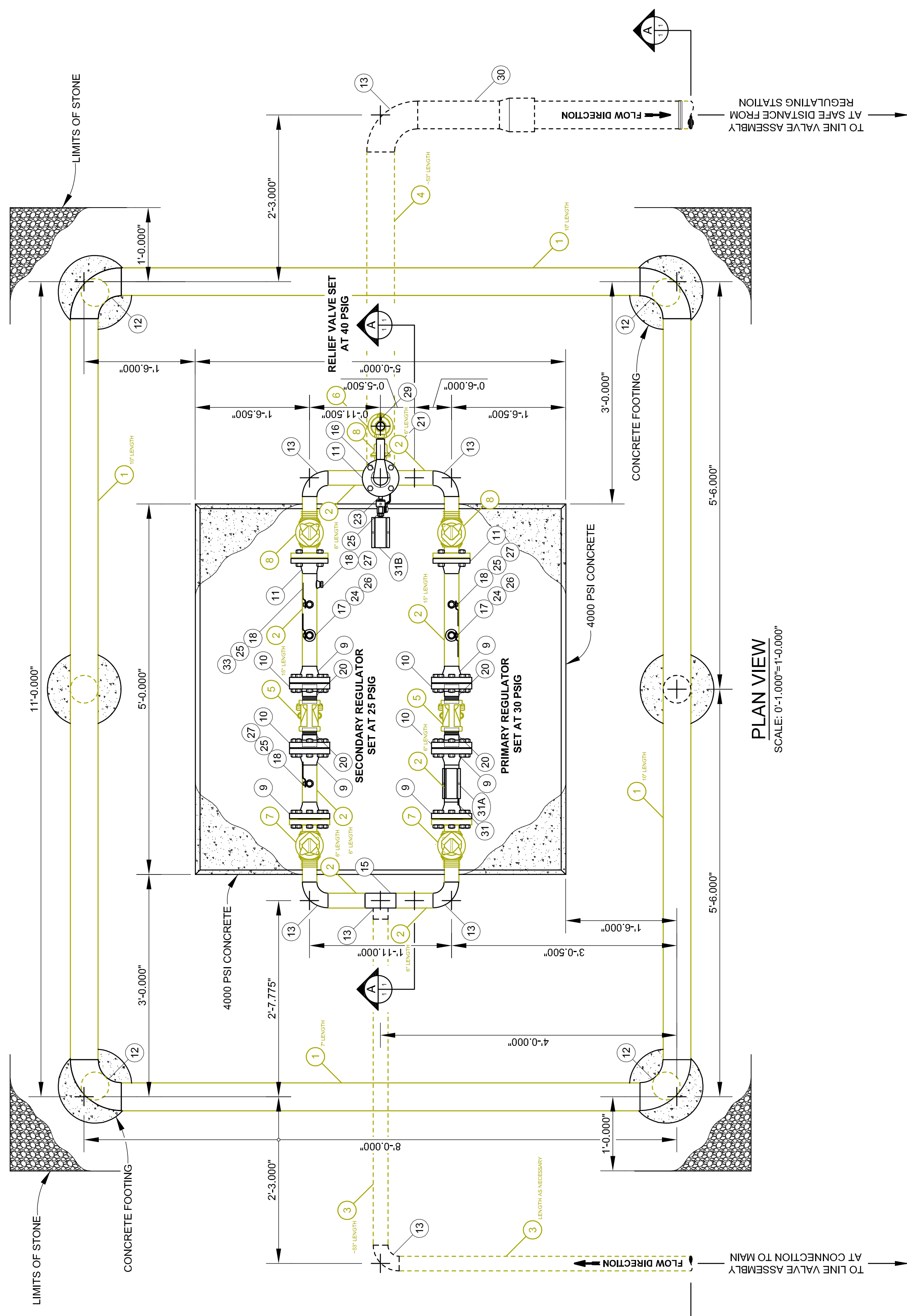
STATION PLAN AND PROFILE DETAIL



City of Cartersville
G A S S Y S T E M

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DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: AS SHOWN
PROJ NO: SP-21-002
SHEET: DET-03



SECTION A-A
SCALE: 0'-1.000"=1'-0.000"

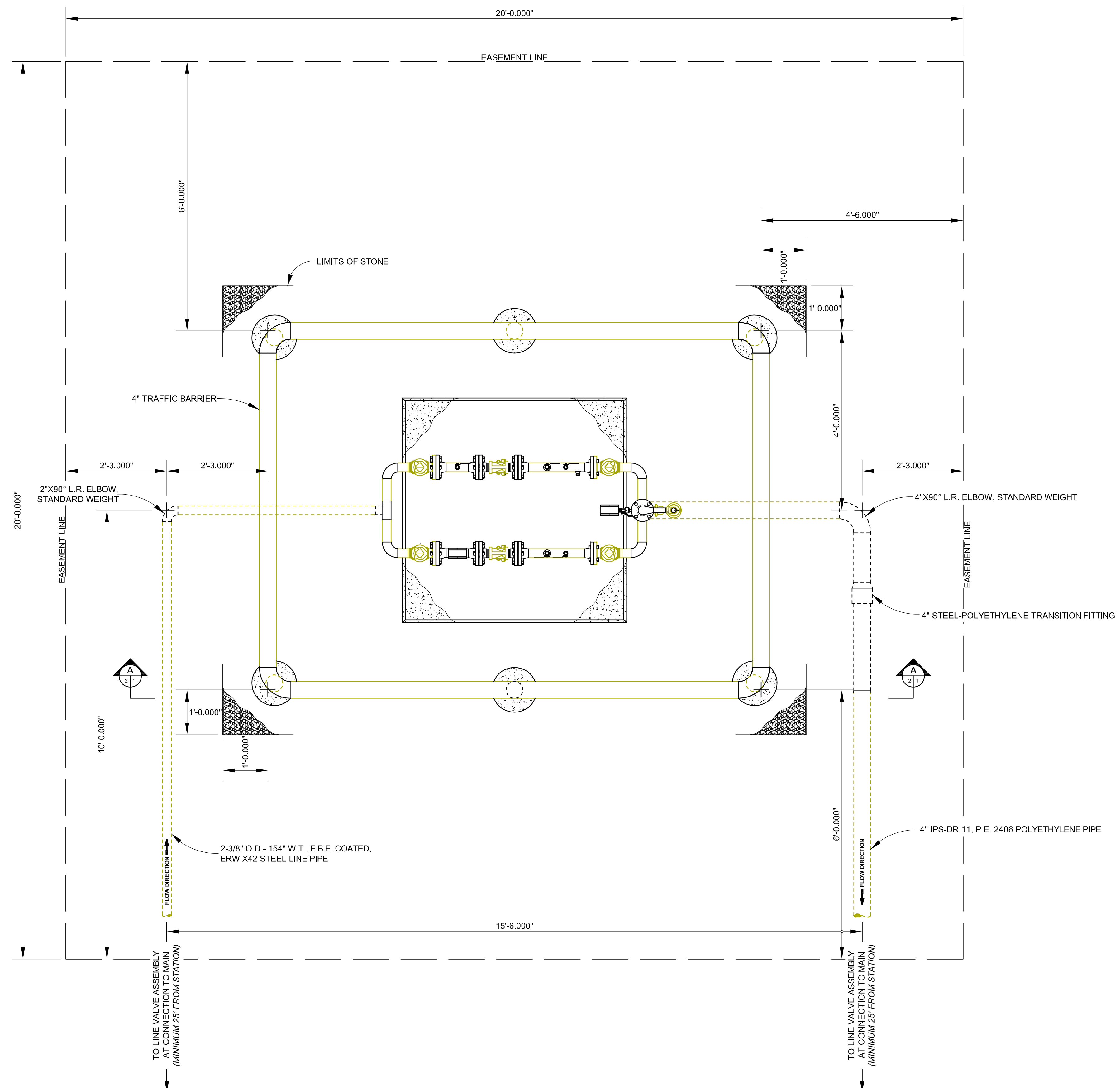
ITEM NO.	QTY.	UNIT	DESCRIPTION
1	61	L.F.	4-1/2" O.D., 188" W.T., BARE ERW X42 STEEL LINE PIPE
2	11	L.F.	2-3/8" O.D., 154" W.T., BARE ERW X42 STEEL LINE PIPE
3	15	L.F.	2-3/8" O.D., 154" W.T., F.B.E. COATED ERW X42 STEEL LINE PIPE
4	7	L.F.	4-1/2" O.D., 188" W.T., F.B.E. COATED ERW X42 STEEL LINE PIPE
5	2	EA.	2" FISHER TYPE 627 DUCTILE IRON THREADED REGULATOR, 1/4" ORIFICE, 15-40 PSIG SPRING RANGE, 100# W.P.
6	1	EA.	1" FISHER TYPE 288H ALUMINUM THREADED RELIEF VALVE, 15-50 PSIG SPRING RANGE, 100# W.P.
7	2	EA.	2" BALON SERIES "US" WELD X FLANGE END BALL VALVE W/ LOCK PLATE, ANSI CLASS 300, 740# W.P.
8	3	EA.	2" BALON SERIES "US" WELD X FLANGE END BALL VALVE W/ LOCK PLATE, ANSI CLASS 150, 265# W.P.
9	6	EA.	2" WELDING NECK FLANGE, ANSI CLASS 300, 740# W.P.
10	4	EA.	2" SLIP-ON FLANGE, ANSI CLASS 300, 740# W.P.
11	3	EA.	2" WELDING NECK FLANGE, ANSI CLASS 150, 265# W.P.
12	4	EA.	4"X90" BUTT WELD ELBOW, LONG RADIUS, STANDARD WEIGHT, SCHEDULE 40
13	8	EA.	2"X90" BUTT WELD ELBOW, LONG RADIUS, STANDARD WEIGHT, SCHEDULE 40
14	1	EA.	2" BUTT WELD CROSS, STANDARD WEIGHT, SCHEDULE 40
15	1	EA.	2"X2" BUTT WELD TEE, STANDARD WEIGHT, SCHEDULE 40
16	1	EA.	2"X1" BUTT WELD REDUCING ELBOW, STANDARD WEIGHT, SCHEDULE 40
17	2	EA.	1/2" THREAD-O-LET, STANDARD WEIGHT, SCHEDULE 40
18	6	EA.	1/4" THREAD-O-LET, STANDARD WEIGHT, SCHEDULE 40
19	2	L.F.	1" IPS-133" W.T., SMLS B, WELD X THREAD STEEL LINE PIPE
20	4	EA.	2"X3" LENGTH, SMLS B, THREAD X WELD STEEL NIPPLE
21	1	EA.	1"X4" LENGTH, SMLS B, THREAD X WELD STEEL NIPPLE
22	2	EA.	1/2"X3" LENGTH STAINLESS STEEL THREADED NIPPLE
23	6	EA.	1/4"X3" LENGTH STAINLESS STEEL THREADED NIPPLE
24	2	EA.	1/2" STAINLESS STEEL BALL VALVE, 2,000# W.P.
25	5	EA.	1/4" STAINLESS STEEL BALL VALVE, 2,000# W.P.
26	2	EA.	1/2" STAINLESS STEEL HEX HEAD PLUG, CLASS 2000
27	5	EA.	1/4" STAINLESS STEEL HEX HEAD PLUG, CLASS 2000
28	1	EA.	1/4" STAINLESS STEEL THREADED TEE, CLASS 2000
29	1	EA.	1" WEATHER CAP W/INDICATING FLAG
30	1	EA.	4" STEEL TO POLYETHYLENE WELDED TRANSITION FITTING
31	2	EA.	PSIG PRESSURE GAUGE (GAUGE "A": 0-600 PSIG, GAUGE "B": 0-60 PSIG)

GENERAL NOTES

- All above ground piping and appurtenances shall be cleaned, primed and painted in accordance with the specifications. All material constructed of stainless steel, plastic, brass, anodized aluminum or other materials rated for outdoor use shall not be painted. The station shall not be placed into service until the final paint coat has been applied and cured and all workmanship is acceptable to the Owner.
- Thread sealant for use with natural gas shall be utilized on all threaded connections. All bolted flange openings shall be wrapped with an outdoor rated tape as called for in the specifications three-quarters around the diameter of the flange allowing for drainage of condensation.
- Where applicable, relief valve orientation shall be such that diaphragm removal, pilot adjustment screw and pilot supply filter vent valve are downstream of regulating run. Rotate pilot and/or pilot supply filter as necessary.
- The overall dimensions shown in this detail will be obtained by constructing this station with attention to the pipe dimensions indicated beside the item numbers shown in the detail. Overall dimensions do not include allowances for gaskets. Bid limits of the regulating station shall extend to the limits of stone 1'-0" beyond the traffic barrier.
- Items shown in the color "dark yellow" on this plan denote those items provided by the Owner.

STATION CAPACITY DATA

REGULATOR: FISHER 2" TYPE 627-1/4" ORIFICE
RELIEF: FISHER TYPE 288H
 Regulator Capacity: 60,000 SCFH AT 60 PSIG (Set + Buildup)
 Residential Service: 160 LoIs (250 SCFH/LoI)



NATURAL GAS MAIN EXTENSION COMMERCE 75	
2" REGULATING STATION STATION SITE PLAN	
 City of Cartersville <small>G A S S Y S T E M</small> <small>P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120</small> <small>Telephone: 770-387-9642 • Fax: 770-387-9638 • www.cityofcartersville.org</small>	DESIGNED: B.S.F.
	DATE: APRIL 2021
	SCALE: 3/4"=1'-0"
	PROJ NO: SP-21-002
SHEET: DE1-04	

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PERMANENT PLANT SPECIES, SEEDING RATES AND PLANTING DATES

SPECIES	RATES PER ACRE	RATES PER 1,000 SQ. FT.	PLANTING DATES BY MLRA			REMARKS
			M-L	P	C	
Bahia, Pensacola: Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	---	4/1-5/31	3/1-5/31	Low growing; sod producing; will spread into Bermuda lawns.
Bahia, Wilmington: Alone or with temporary cover With other perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lb.	3/15-5/31	3/1-5/31	---	Same as above.
Bermuda, Common: (Hulled seed) Alone With other perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lb.	---	4/1-5/31	3/15-5/31	Quick cover; low growing; sod forming; needs full sun.
Bermuda, Common: (Unhulled seed) With temporary cover With other perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lb.	---	10/15-2/28	11/1-1/31	Plant with Winter annuals. Plant with Tall Fescue.
Bermuda Sprigs: Common lawn and Forage hybrids	40 cu.ft. Sod plugs 3'x3'	0.9 cu. ft.	4/15-6/15	4/1-6/15	4/1-5/31	1 cu. ft. = 650 sprigs; 1 bu = 1.25 cu. ft. or 800 sprigs
Crown Vetch: With winter annuals or cool season grasses	15 lbs.	0.3 lbs.	9/1-10/15	9/1-10/15	---	Mix with 30 lbs. Tall Fescue or 15 lbs. Rye; inoculate seed; plant only North of Atlanta.
Fescue, Tall: Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lbs.	3/1-4/1 or 8/15-9/30	8/15-10/15 or 2/15-4/15	---	Mix with perennial Lespedeza or Crown Vetch; not for droughty soils or heavy use areas.
Lespedeza, Sericea: Scarified Unscarified Seed-bearing hay	60 lbs. 75 lbs. 3 tons	1.4 lbs. 1.7 lbs. 138 lbs.	4/1-5/31 9/1-2/28 10/1-2/1	3/15-5/31 9/1-2/28 10/1-2/28	3/1-5/15 9/1-2/28 9/15-1/15	Widely adapted and low maintenance; takes 2-3 years to establish; inoculate seed with EL inoculate; mix with Weeping Lovegrass, Common Bermuda, Bahia or Tall Fescue. Mix with Tall Fescue or winter annuals. Cut when seed is mature but before it shatters. Add Tall Fescue or winter annuals.
Lespedeza, Ambro Virgata or Appalaw: Scarified Unscarified	60 lbs. 75 lbs.	1.4 lbs. 1.7 lbs.	4/1-5/31 9/1-2/28	3/15-5/31 9/1-2/28	3/1-5/15 9/1-2/28	Spreading growth with height of 18"-24"; good in urban area; slow to develop good stands; mix with Weeping Lovegrass, Common Bermuda, Bahia Tall Fescue or winter annuals; do not mix with Sericea Lespedeza; inoculate see with EL inoculate.
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) Plants	3'x3' spacing		11/1-3/31	11/1-3/15	11/15-2/28	Plant in small clumps for wildlife food and cover.
Lovegrass, Weeping: Alone With other perennials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	4/1-5/31	3/15-5/31	3/15-5/31	Quick cover; drought tolerant; grows well with Sericea Lespedeza on road-banks and other steep slopes; short lived.
Maidencane sprigs:	2'x3' spacing		2/1-3/31	2/1-3/31	2/1-3/31	For very wet sites such as riverbanks and shorelines. Dig sprigs locally.
Panicgrass, Atlantic Coastal:	20 lbs.	0.5 lb.	---	3/1-4/30	3/1-4/30	Grows well on coastal sand dunes; mix with Sericea Lespedeza but not on sand
Reed Canary Grass: Alone With other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	8/15-10/15	9/1-10/15	---	Grows similar to Tall Fescue; for wet sites FLATWOODS
Sunflower, Aztec Maximilian:	10 lbs.	0.2 lb.	4/15-5/31	4/15-5/31	4/1-5/31	Mix with Weeping Lovegrass or other low growing grasses or legumes.
Switchgrass:	20 lbs.	0.4 lb.	4/1-5/31	4/1-5/31	4/1-5/31	For streambank plantings, drainage ditches, and wet areas.

1. Rates are for broadcast seed. If a seed drill is used, reduce the rates by one-half.
2. The resource areas are defined in the MLRAs of Georgia map.

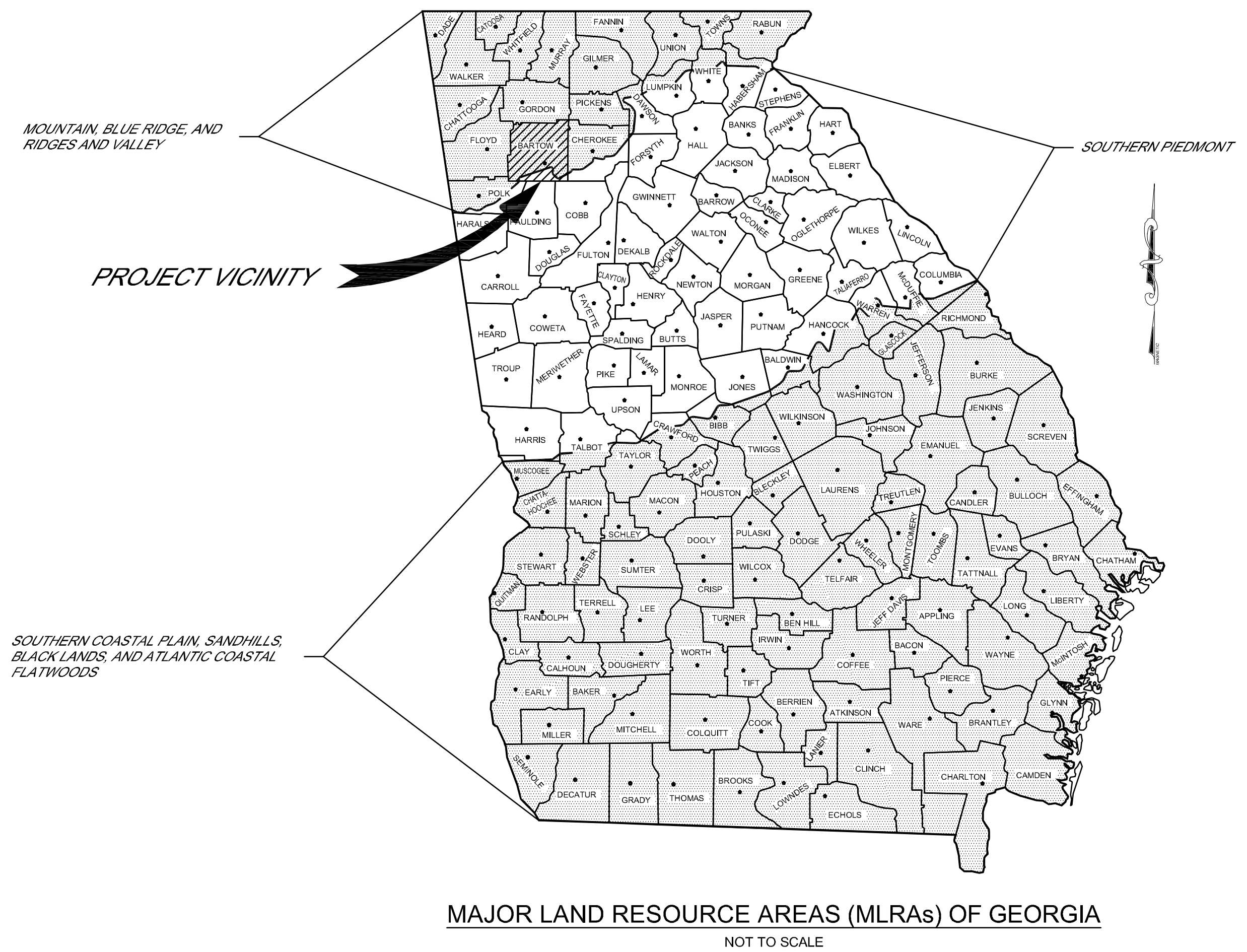
SUGGESTED SEEDBED DEPTHS

SLOPE	SEEDBED DEPTH
3:1 or Flatter	Less than 4" Depth
2:1 to 3:1	1" to 4" Depth
2:1 or Steeper	Depressions every 6"-8" hand dug, if necessary

FERTILIZER, LIME & MULCH REQUIREMENTS

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME RATE (TONS/ACRE)	MULCH RATE (TONS/ACRE)
Cool season grasses	First	6-12-12	1500	50-100	2	2-1/2
	Second	6-12-12	1000	---		
	Maintenance	10-10-10	400	30		
Cool season grasses and legumes	First	6-12-12	1500	0-50	2	2-1/2
	Second	0-10-10	1000	---		
	Maintenance	0-10-10	400	---		
Warm season grasses	First	6-12-12	1500	50-100	2	2-1/2
	Second	6-12-12	800	50-100		
	Maintenance	10-10-10	400	30		
Warm season grasses and legumes	First	6-12-12	1500	50	2	2-1/2
	Second	0-10-10	1000	---		
	Maintenance	0-10-10	400	---		

Ds3 DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)



MAJOR LAND RESOURCE AREAS (MLRAs) OF GEORGIA
NOT TO SCALE

ACTIVITY SCHEDULE

DESCRIPTION OF ACTIVITY	JUNE				JULY				AUGUST				SEPTEMBER				OCTOBER				
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
Installation of silt & erosion control devices																					
Installation of pipeline & appurtenances																					
Maintenance of silt & erosion control devices																					
Dressing and permanent grassing																					
Removal of silt & erosion control devices																					

GENERAL SILT & EROSION CONTROL NOTES

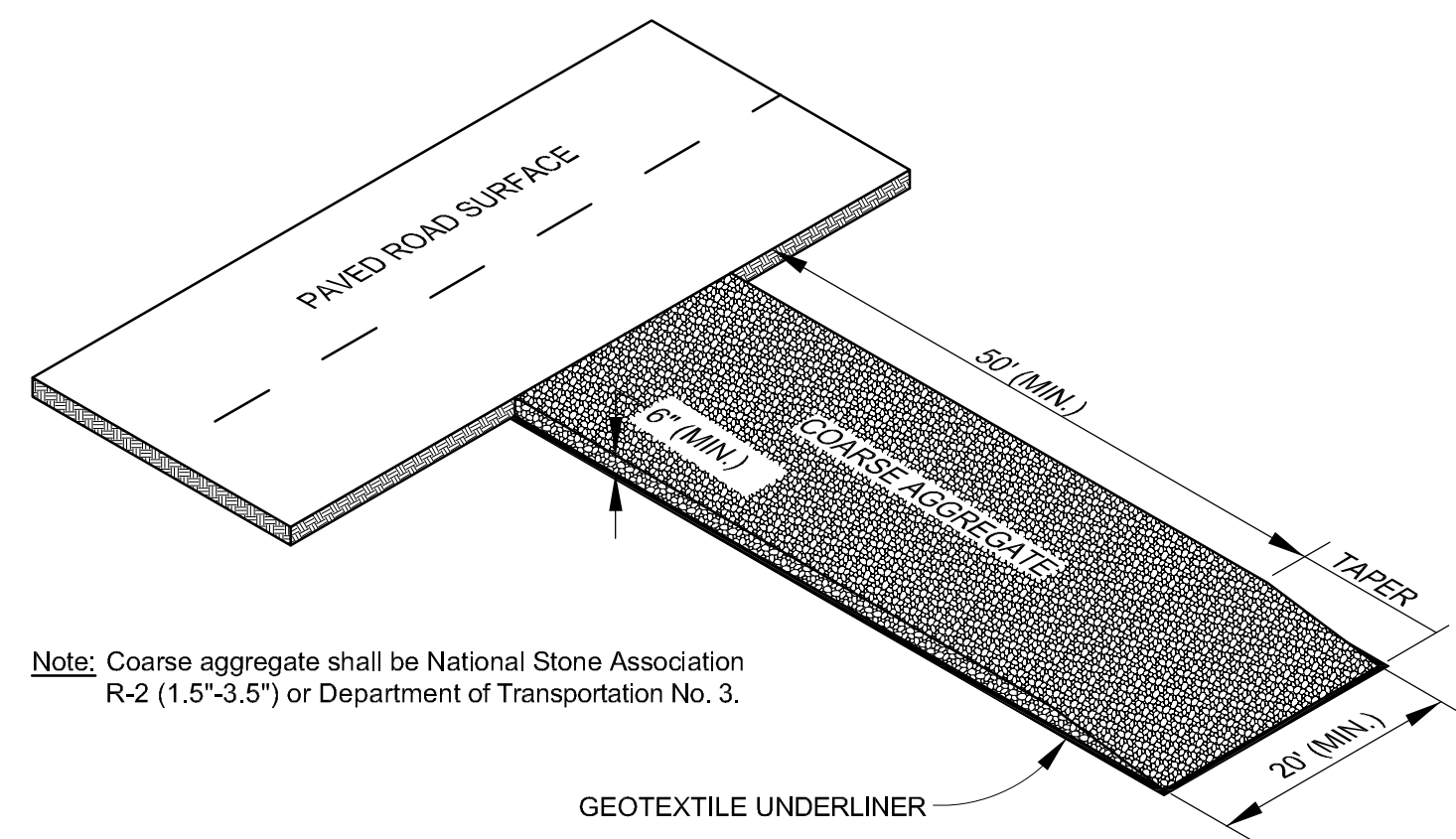
- The construction of this project requires Best Management Practices (BMPs) in the prevention of sedimentation and the control of erosion. All silt and erosion control devices installed, constructed and maintained on this project shall conform to the standards and specifications set forth by the "Manual for Erosion and Sediment Control in Georgia", latest edition and must withstand up to a 25-year rainfall event.
- The Contractor will be responsible for the prevention of sedimentation and erosion control in all areas disturbed by construction until permanent grassing has been established and sedimentation and erosion is no longer evident. All areas disturbed shall be mulched and remain mulched until a permanent stand of grass is achieved.
- The Contractor will be responsible for the protection of all existing silt and erosion control devices installed and constructed under this project.
- All silt and erosion control devices installed in accordance with the erosion control plan shall be properly maintained at all times until permanent grassing has been established in all areas disturbed by construction and sedimentation and erosion is no longer evident. Such silt and erosion control devices shall be cleaned of accumulated silt before the devices reach half full and all devices shall be maintained in good working order. The installer shall inspect such silt and erosion control devices for proper installation and working order on a daily basis and immediately following each rainfall event. Any such devices that become damaged or is not in proper working order shall be immediately remedied or replaced. All silt or sediment leaving such areas disturbed by construction shall be immediately removed, cleaned and restored to as near as original condition as possible. If necessary, additional silt and erosion control measures will be required outside the areas disturbed by construction to prevent further sedimentation and erosion.
- Once permanent grassing has been established in all areas where the Contractor has been required to install silt and erosion control devices and sedimentation and erosion is no longer evident, the Contractor shall properly remove all silt and erosion control devices from the project site.
- Portions of the silt and erosion control for this project are the responsibility of the site developer. The limits of the silt and erosion control required by these plans are depicted on each plan sheet.

NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75/COMMERCE 75
SILT & EROSION CONTROL
DISTURBED AREA STABILIZATION

DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: NO SCALE
PROJ NO: SP-21-0012
SHEET: EC-DET-01

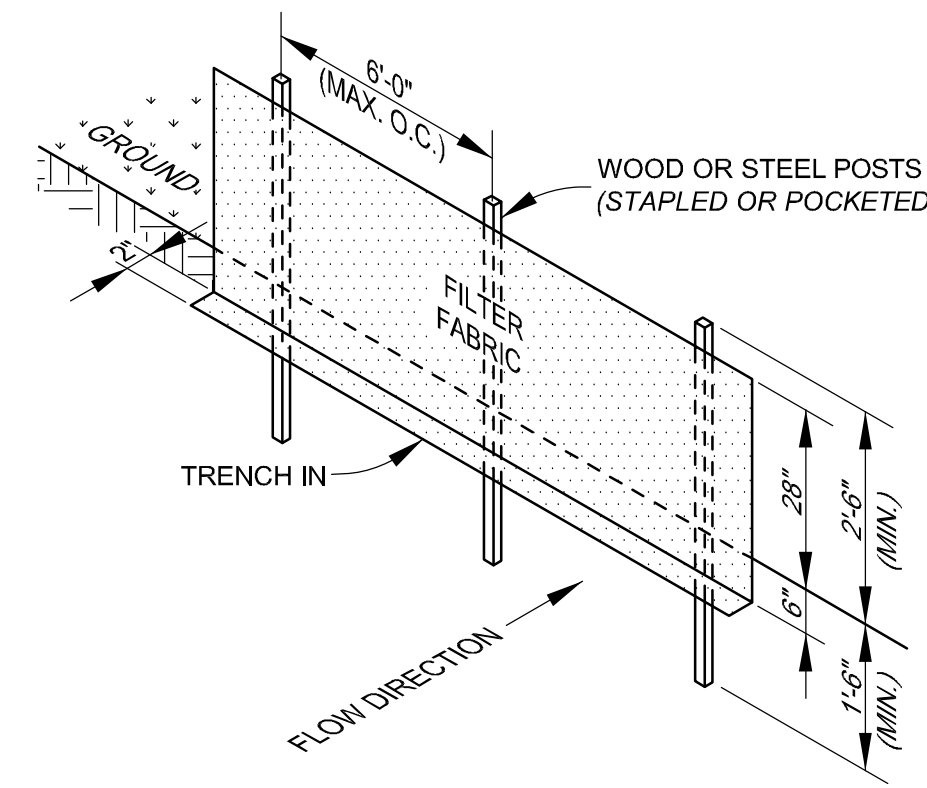
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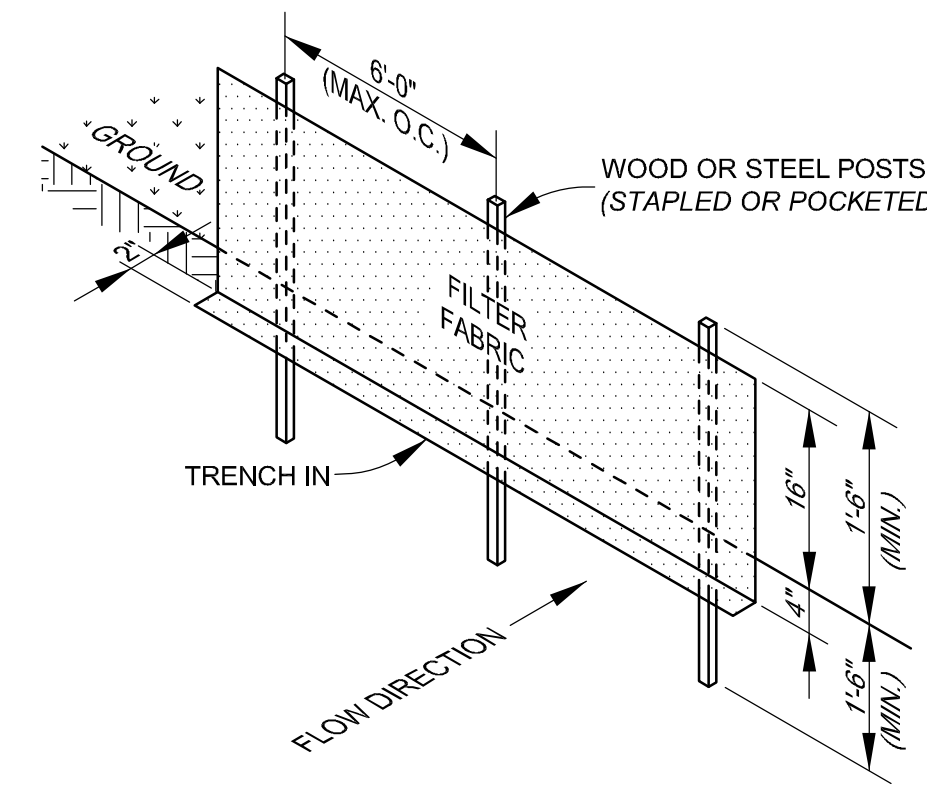


Note: Coarse aggregate shall be National Stone Association R-2 (1.5"-3.5") or Department of Transportation No. 3.

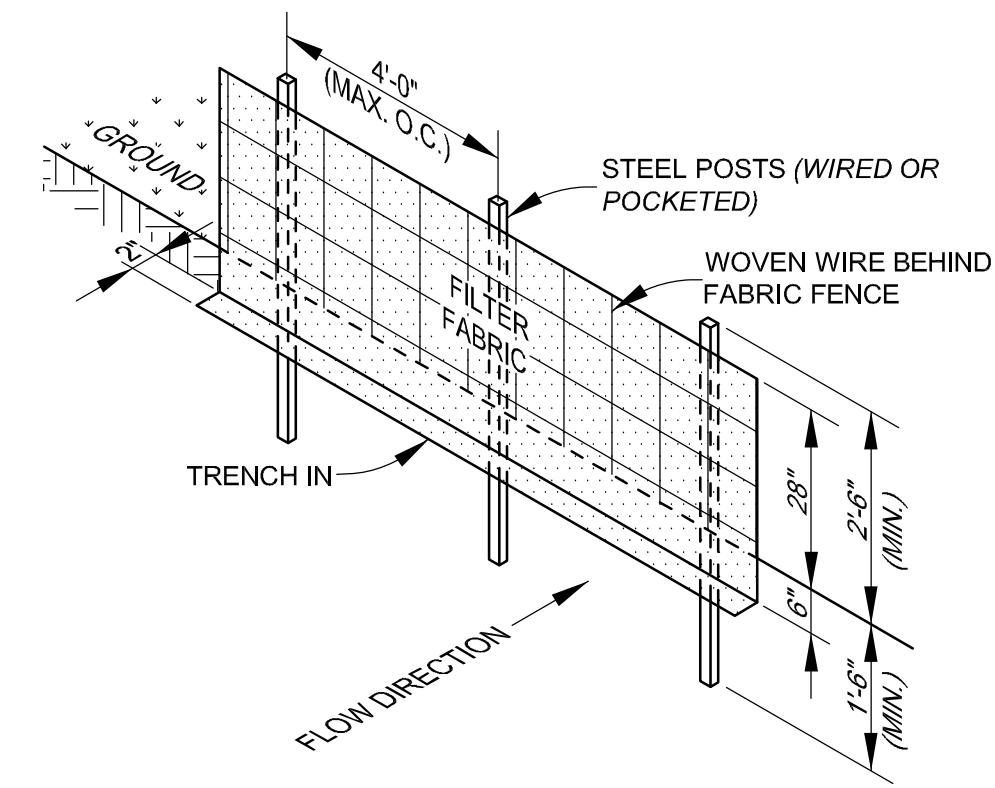
Co CONSTRUCTION EXIT DETAIL
NOT TO SCALE



TYPE "A"
(use where life expectancy is greater than six months or slope gradient is steeper than 3:1 or otherwise directed)



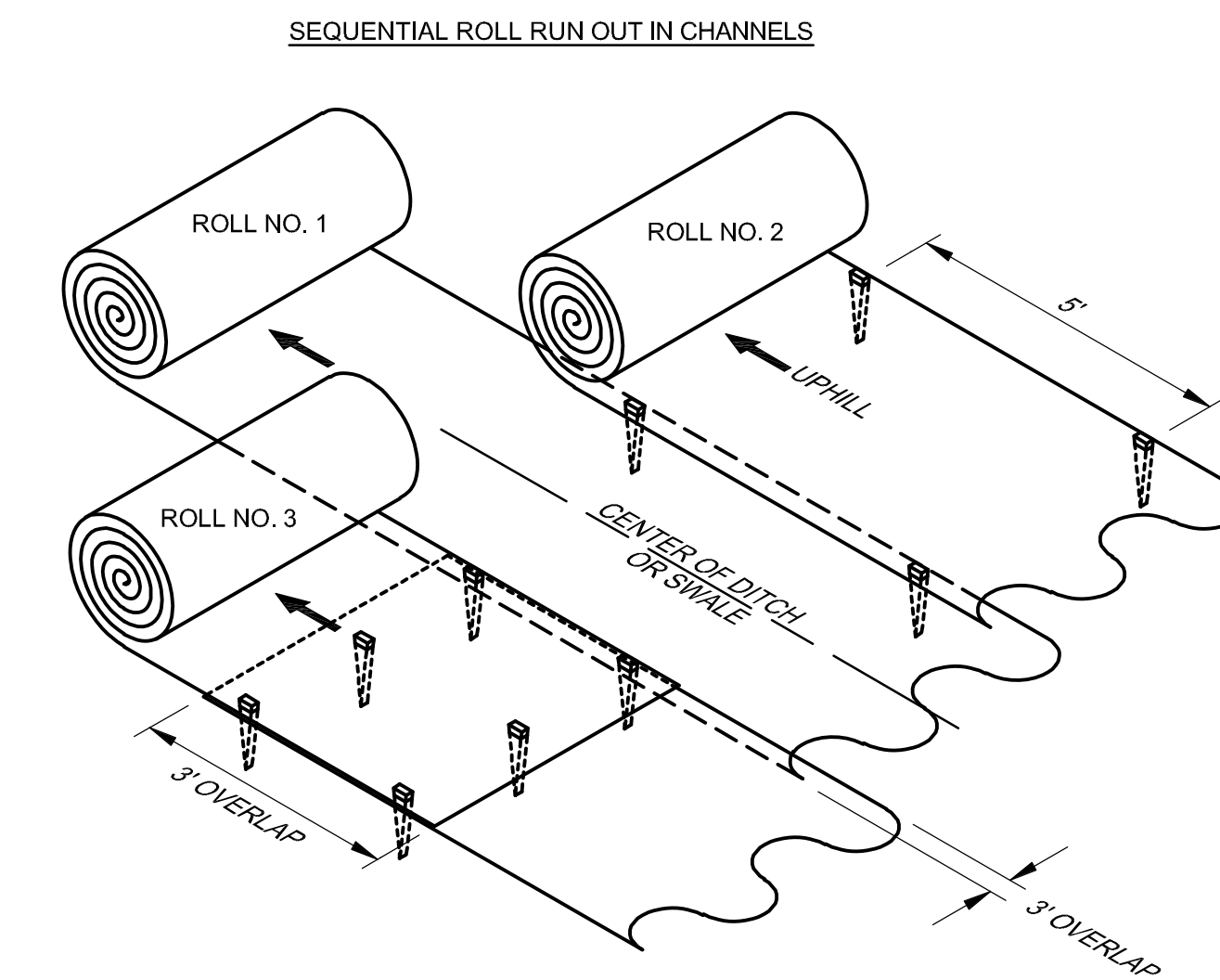
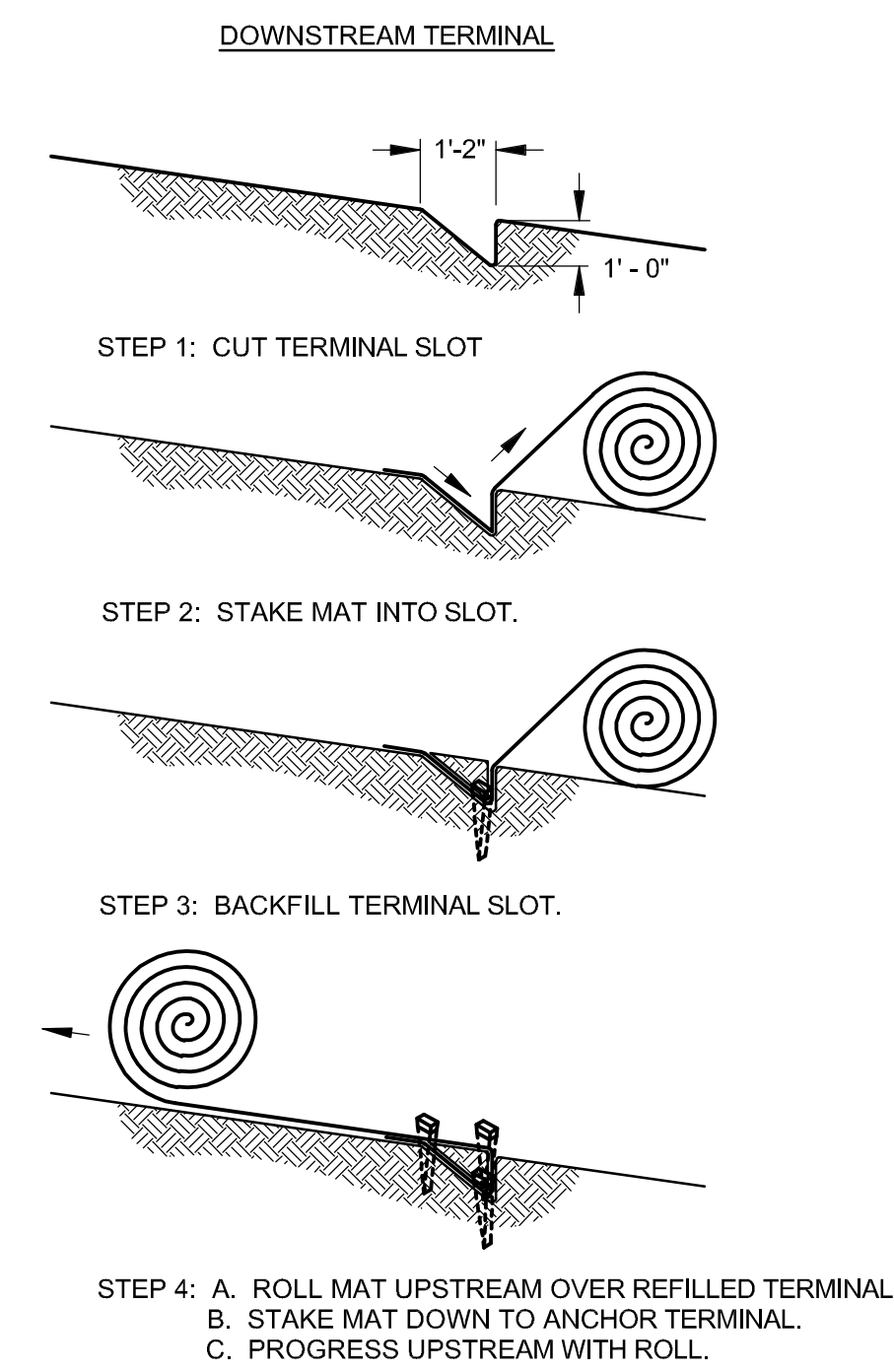
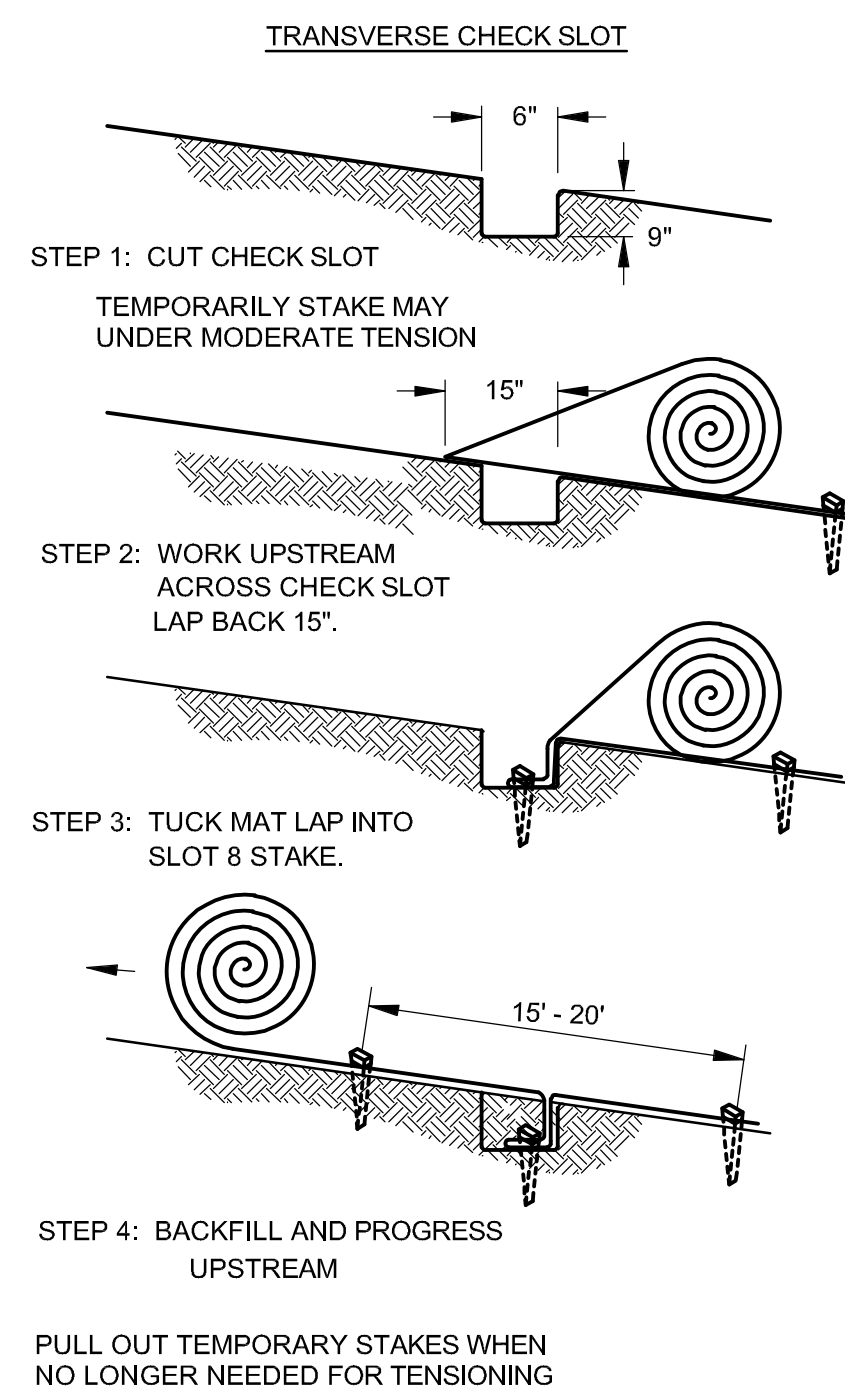
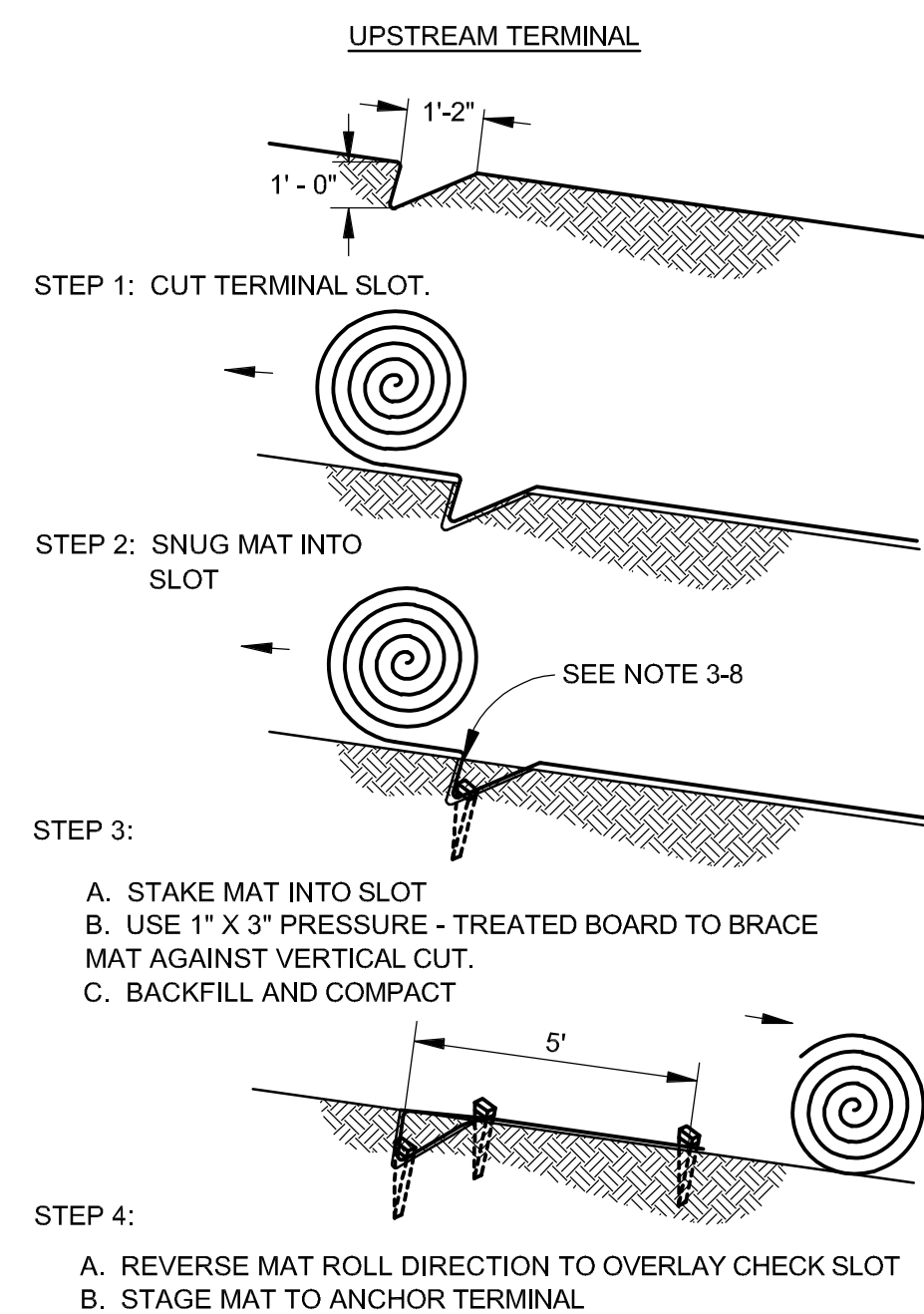
TYPE "B"
(use where life expectancy is less than six months or slope gradient is less than or equal to 3:1 or otherwise directed)



TYPE "C"
(use where fill slopes exceed a vertical height of 20' and slope gradient is steeper than 3:1 or otherwise directed)

Note: Temporary silt fence shall meet the requirements of Section 171 - "Temporary Silt Fence" of the Georgia Department of Transportation's Standard Specifications for Road and Bridge Construction, Latest Edition.

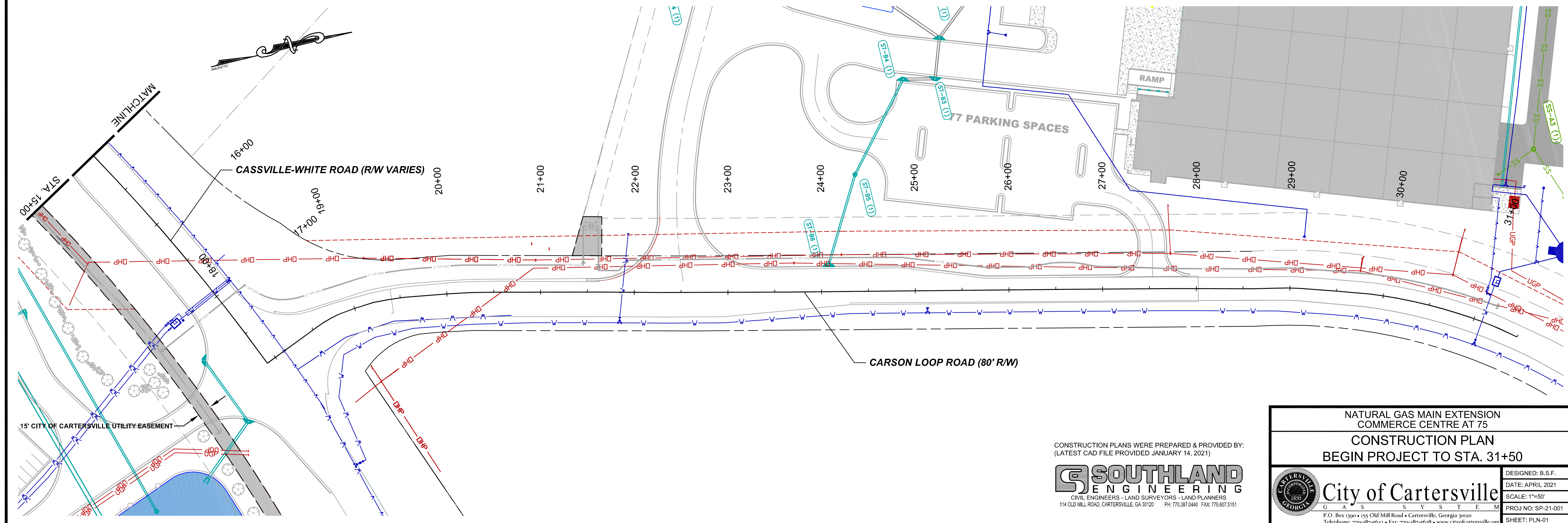
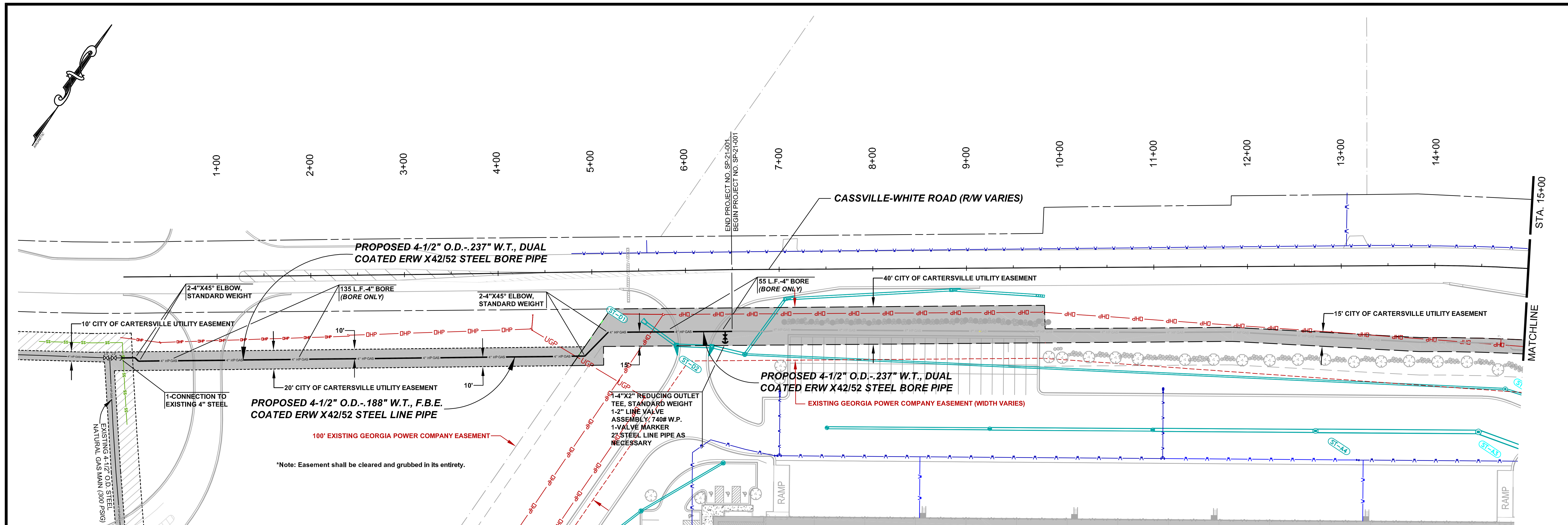
Sd1 TEMPORARY SILT FENCE DETAILS
NOT TO SCALE



1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

Mb TYPICAL INSTALLATION GUIDELINES FOR MATTING AND BLANKETS
NOT TO SCALE

NATURAL GAS MAIN EXTENSION COMMERCE CENTRE AT 75/COMMERCE 75 MISCELLANEOUS SILT & EROSION CONTROL DETAILS	
 City of Cartersville <small>G A S S Y S T E M</small> P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120 Telephone: 770-387-9642 • Fax: 770-387-9538 • www.cityofcartersville.org	DESIGNED: B.S.F. DATE: APRIL 2021 SCALE: NO SCALE PROJ NO: SP-21-001/2 SHEET: EC-DET-02



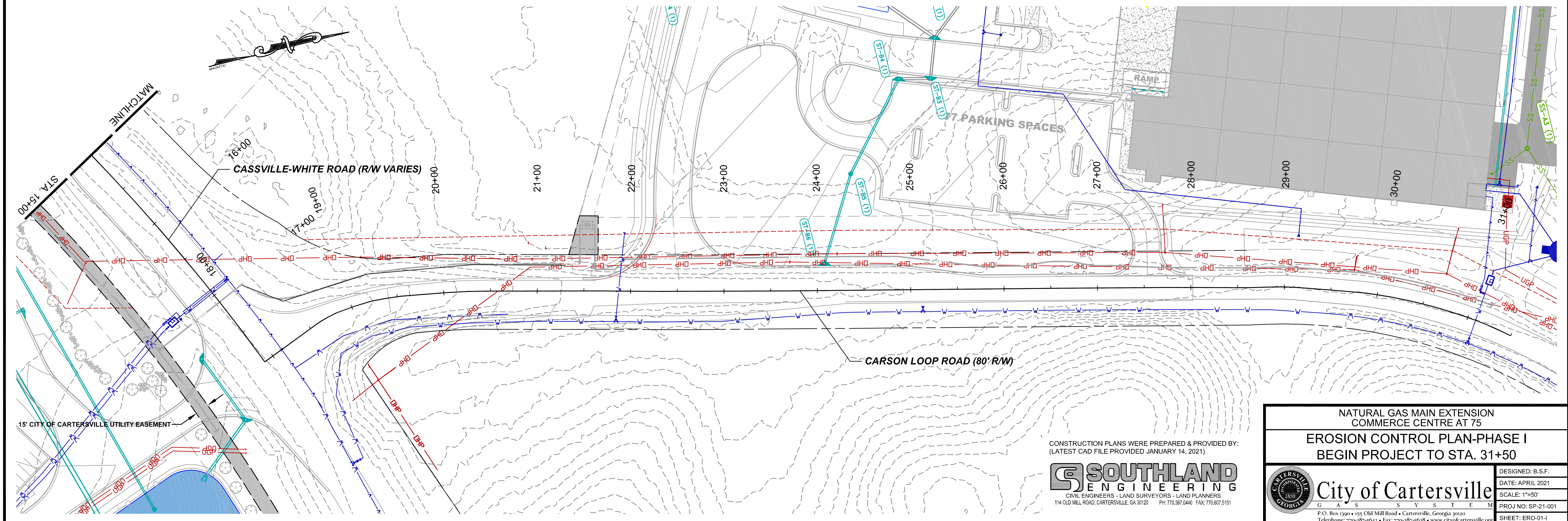
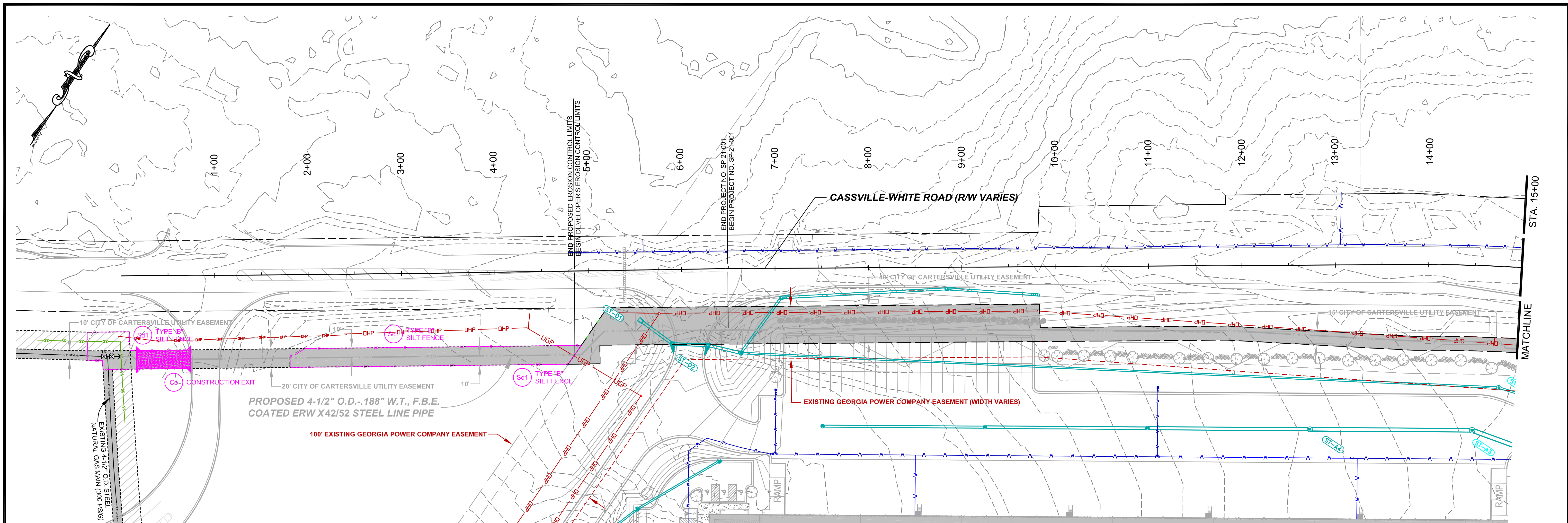
CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED JANUARY 14, 2021)

SOUTHLAND ENGINEERING
CIVIL ENGINEERS - LAND SURVEYORS - LAND PLANNERS
114 OLD MILL ROAD, CARTERSVILLE, GA 30120 PH: 770.387.0440 FAX: 770.807.5151

NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75
CONSTRUCTION PLAN
BEGIN PROJECT TO STA. 31+50

DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: 1"=50'
PROJ NO: SP-21-001
SHEET: PLN-01

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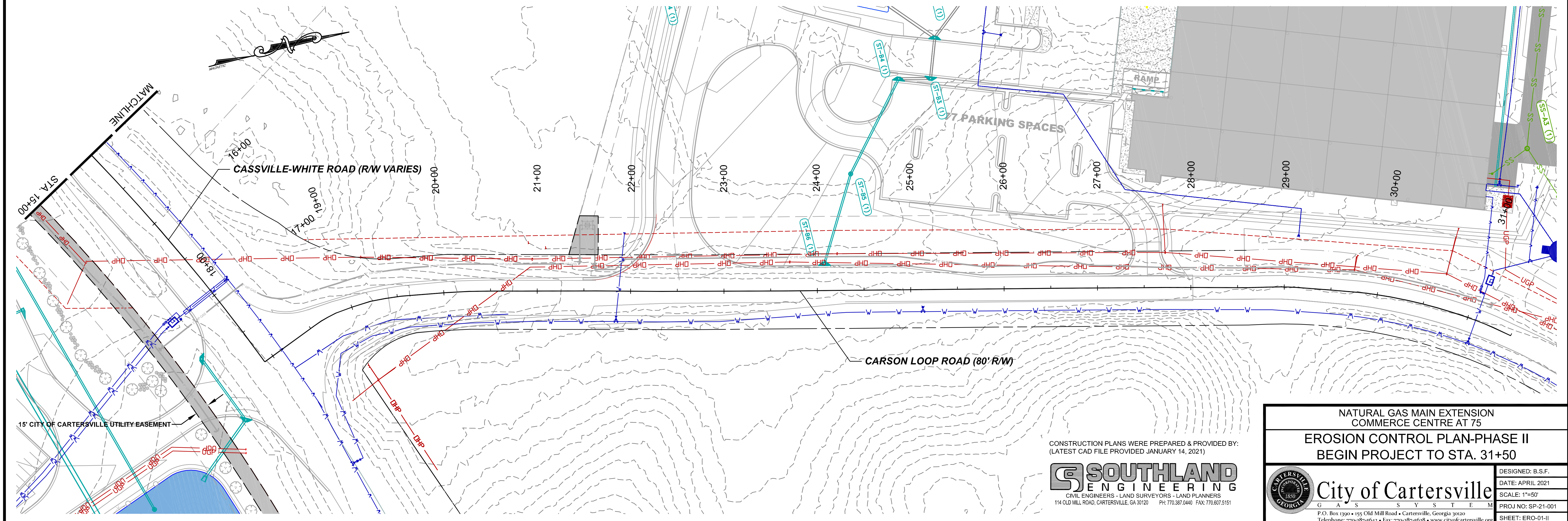
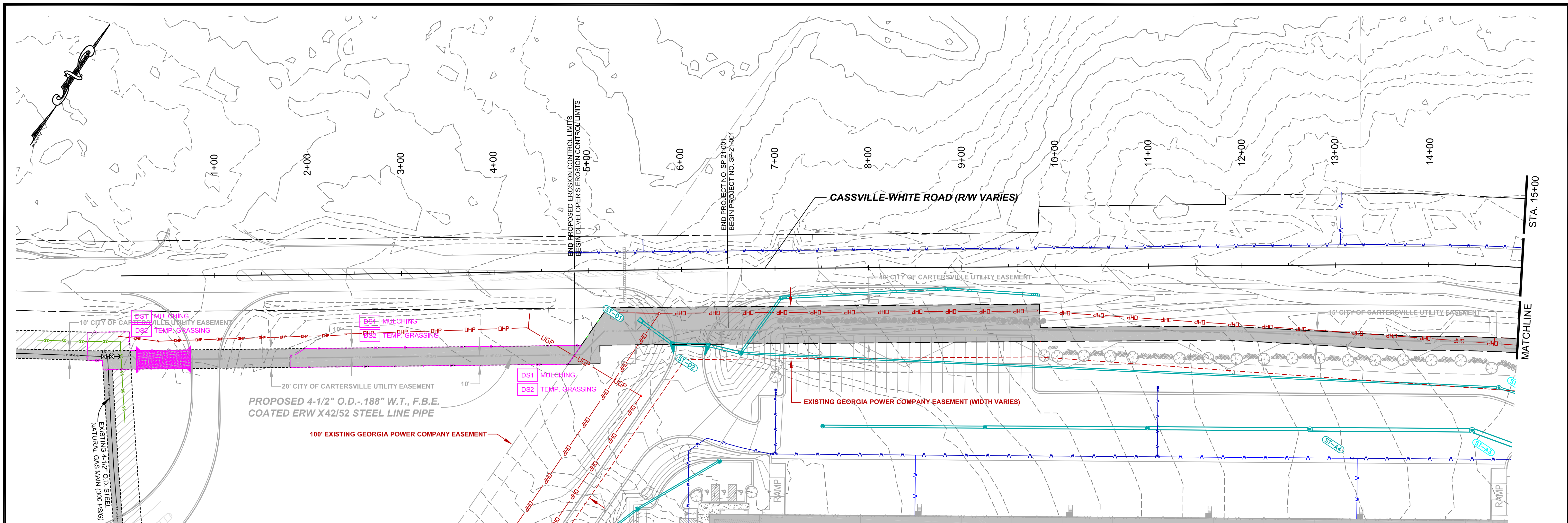
CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
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NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75
EROSION CONTROL PLAN-PHASE I
BEGIN PROJECT TO STA. 31+50

DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: 1"=50'
PROJ NO: SP-21-001
SHEET: ERO-01-I

City of Cartersville
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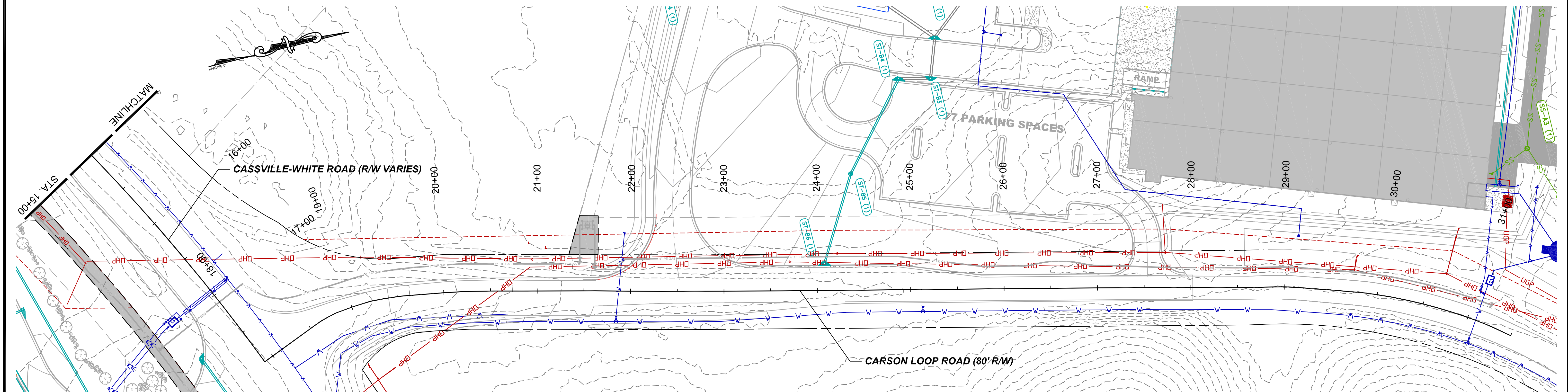
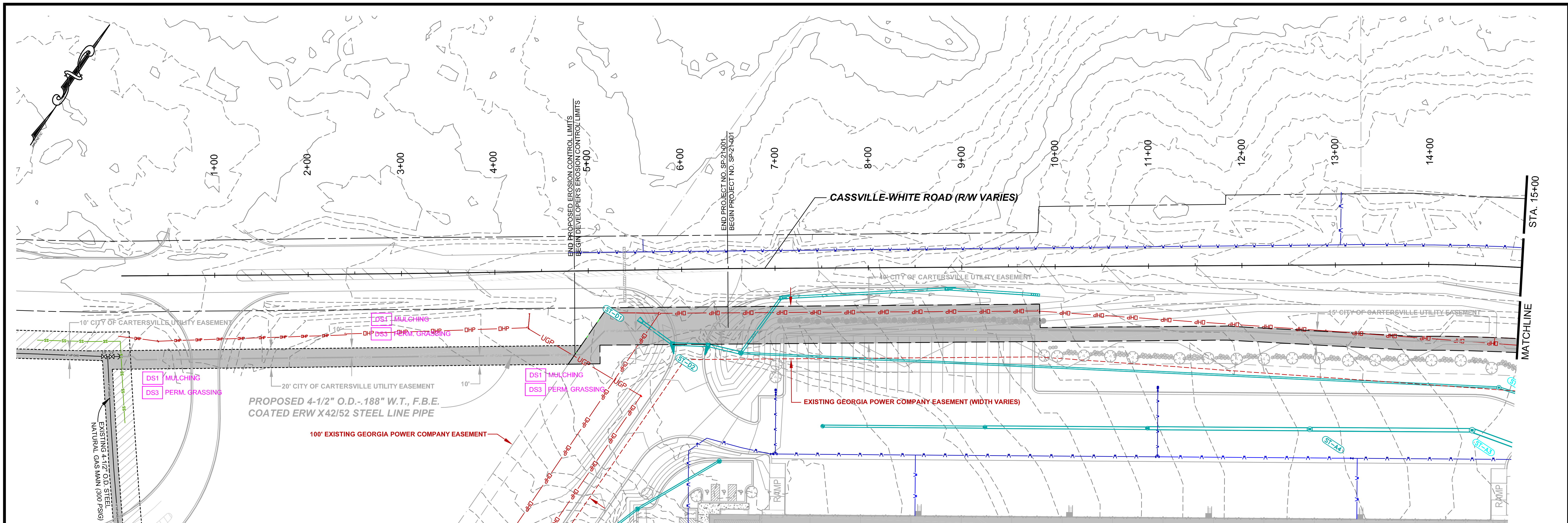
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NATURAL GAS MAIN EXTENSION
COMMERCE CENTRE AT 75
EROSION CONTROL PLAN-PHASE II
BEGIN PROJECT TO STA. 31+50


DESIGNED: B.S.F.
DATE: APRIL 2021
SCALE: 1"=50'
PROJ NO: SP-21-001
SHEET: ERO-01-II

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CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED JANUARY 14, 2021)

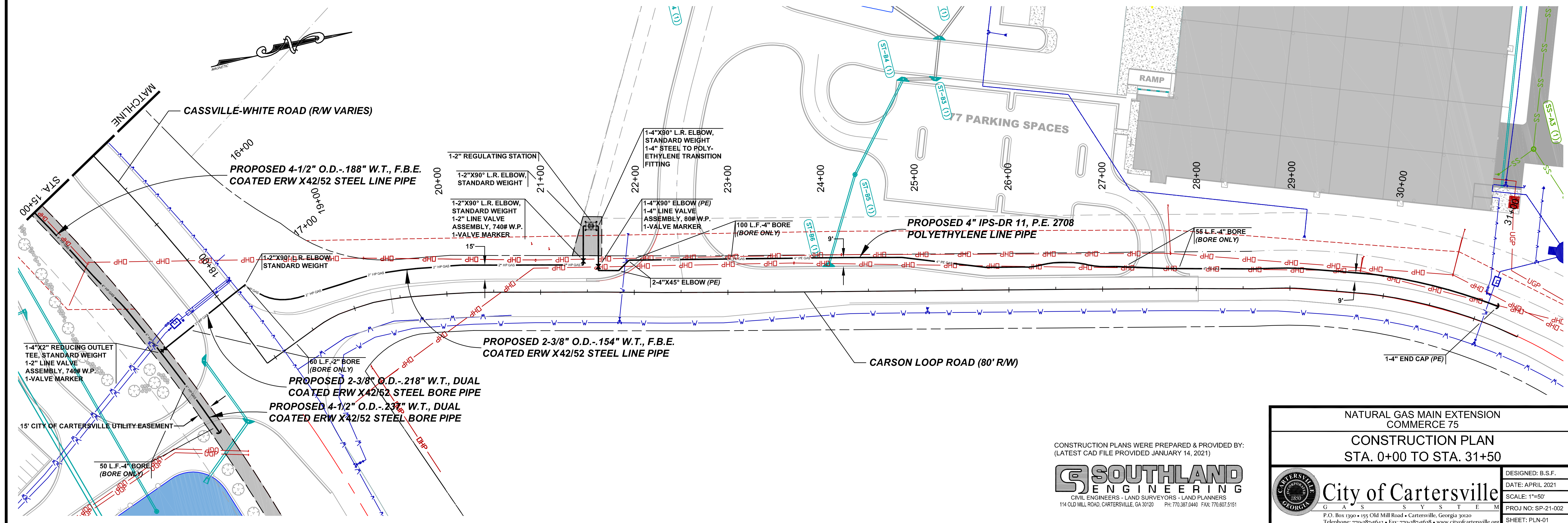
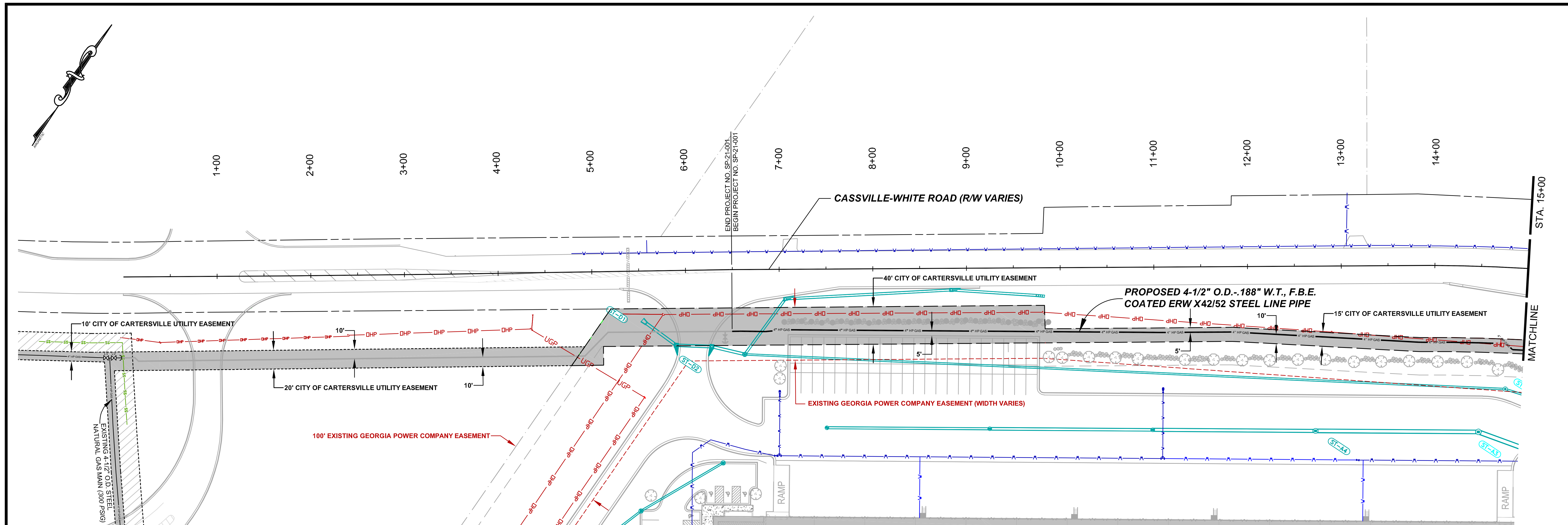


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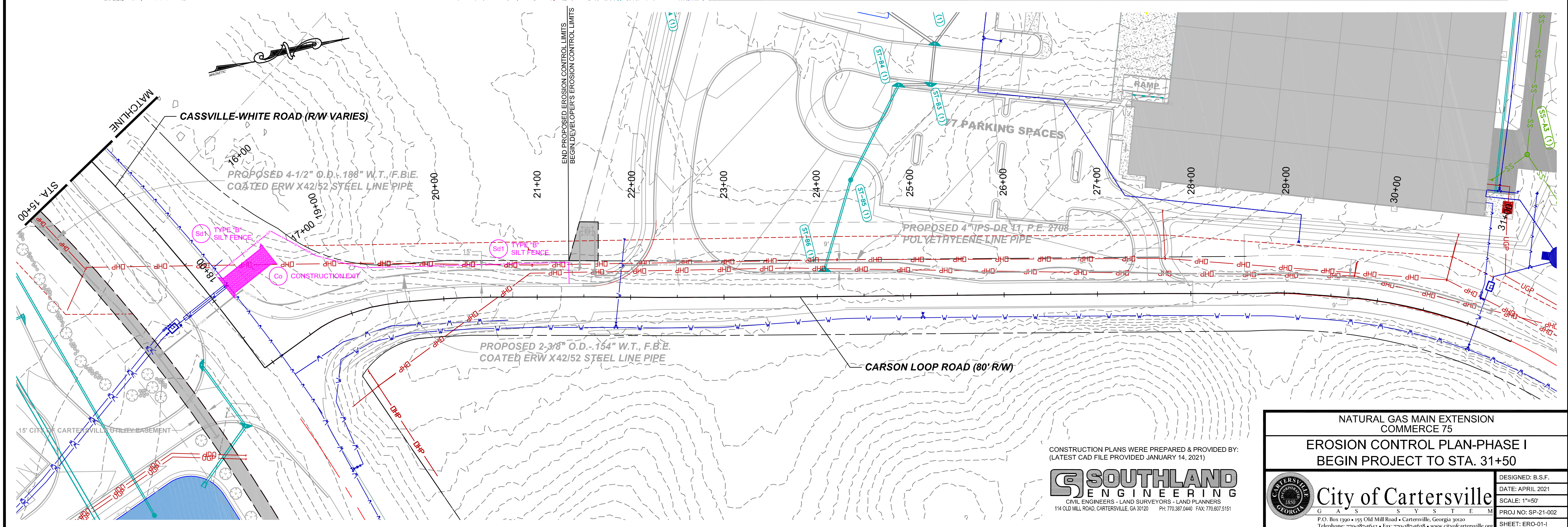
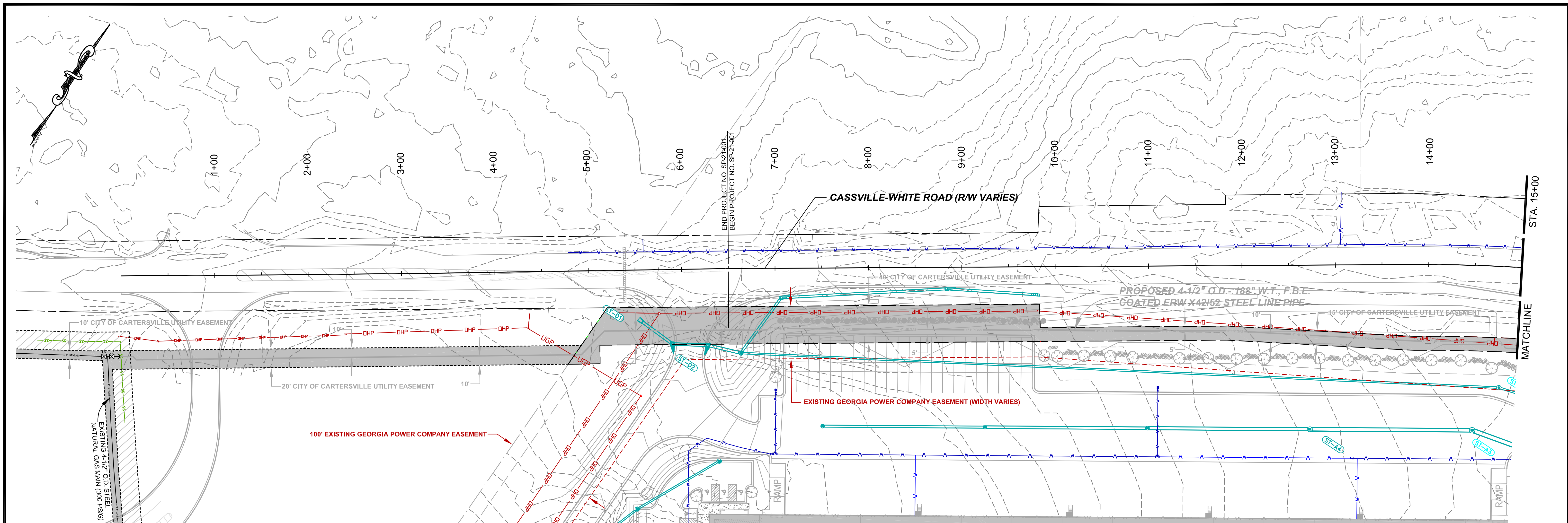
NATURAL GAS MAIN EXTENSION COMMERCE CENTRE AT 75	
EROSION CONTROL PLAN-PHASE III	
STA. 0+00 TO STA. 31+50	
DESIGNED: B.S.F.	DATE: APRIL 2021
SCALE: 1"=50'	PROJ NO: SP-21-001
SHEET: ERO-01-III	



CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED JANUARY 14, 2021)



NATURAL GAS MAIN EXTENSION COMMERCE 75	
CONSTRUCTION PLAN STA. 0+00 TO STA. 31+50	
 City of Cartersville G A S S Y S T E M P.O. Box 1390 • 155 Old Mill Road • Cartersville, Georgia 30120 Telephone: 770-387-9542 • Fax: 770-387-9538 • www.cityofcartersville.org	DESIGNED: B.S.F. DATE: APRIL 2021 SCALE: 1"=50' PROJ NO: SP-21-002 SHEET: PLN-01



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 (LATEST CAD FILE PROVIDED JANUARY 14, 2021)

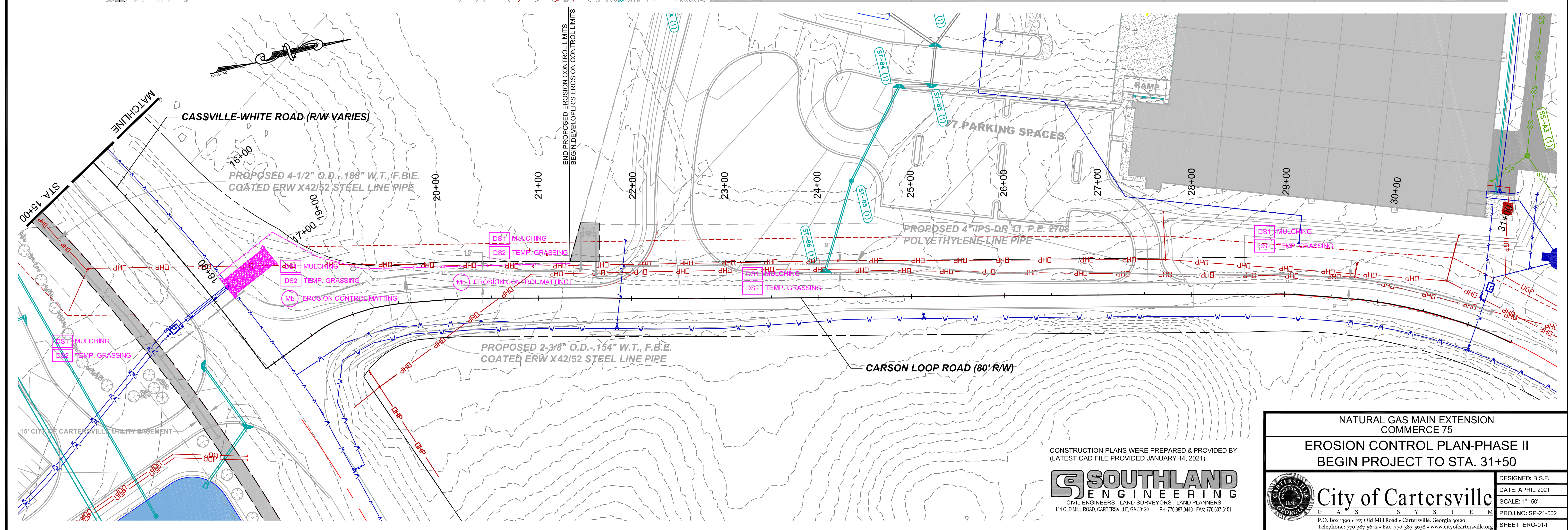
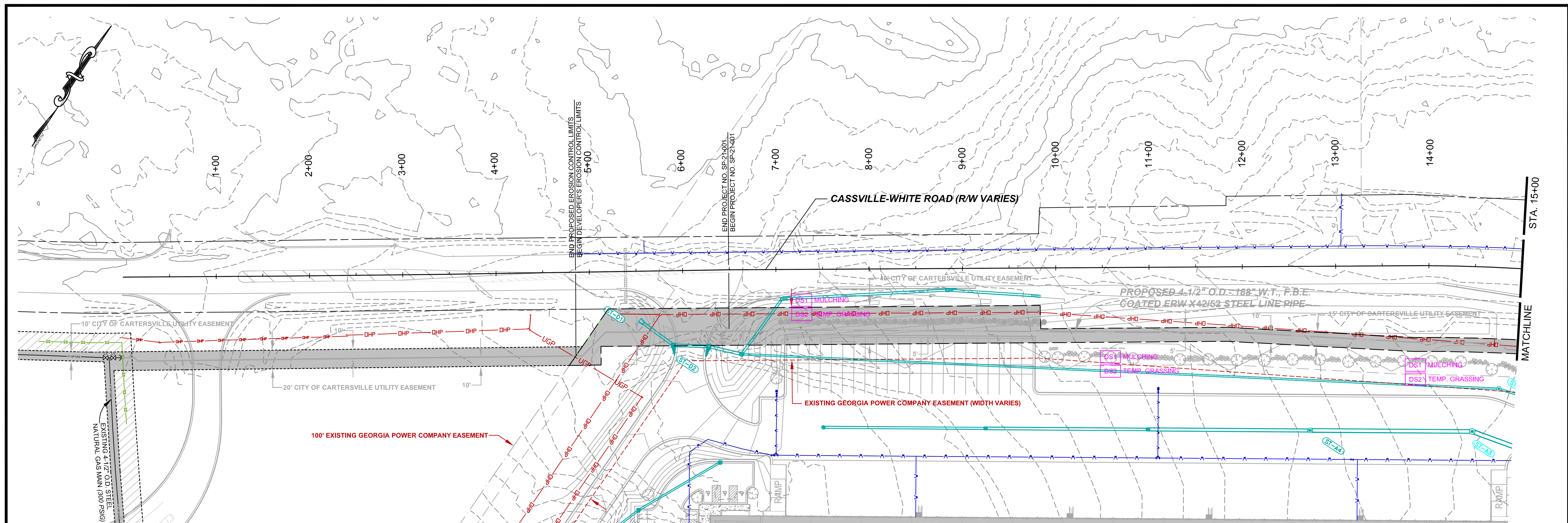
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NATURAL GAS MAIN EXTENSION
 COMMERCE 75

EROSION CONTROL PLAN-PHASE I
 BEGIN PROJECT TO STA. 31+50

DESIGNED: B.S.F.
 DATE: APRIL 2021
 SCALE: 1"=50'
 PROJ NO: SP-21-002
 SHEET: ERO-01-I

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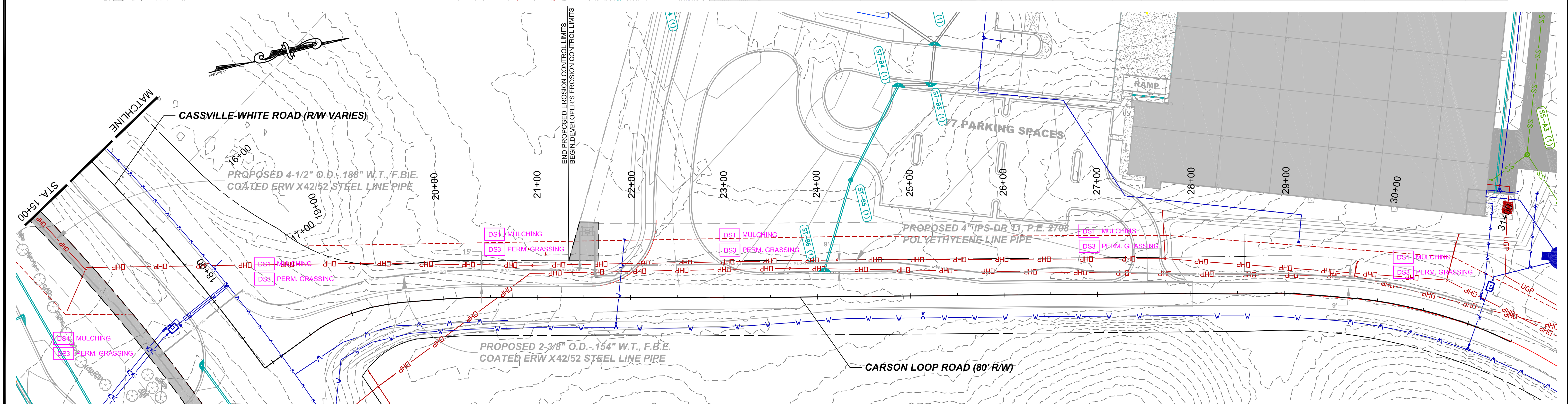
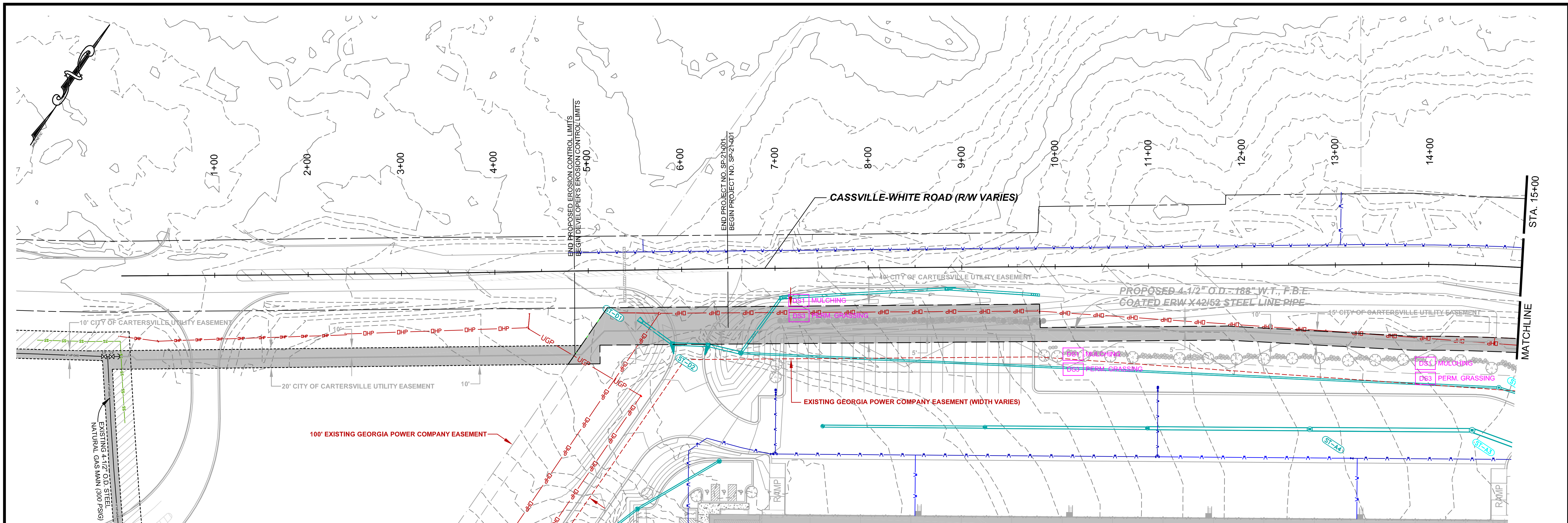


CONSTRUCTION PLANS WERE PREPARED & PROVIDED BY:
(LATEST CAD FILE PROVIDED JANUARY 14, 2021)



NATURAL GAS MAIN EXTENSION COMMERCE 75	
EROSION CONTROL PLAN-PHASE II BEGIN PROJECT TO STA. 31+50	
	DESIGNED: B.S.F.
	DATE: APRIL 2021
	SCALE: 1"=50'
	PROJ NO: SP-21-002
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SHEET: ERO-01-II	

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NATURAL GAS MAIN EXTENSION
 COMMERCE 75
EROSION CONTROL PLAN-PHASE III
 BEGIN PROJECT TO STA. 31+50

DESIGNED: B.S.F.
 DATE: APRIL 2021
 SCALE: 1"=50'
 PROJ NO: SP-21-002
 SHEET: ERO-01-III

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