

**NOTES:**

1. RESIDENCES SHALL NOT HAVE SERVICES OR DRIVEWAYS ACCESSING THE ROADWAY SECTION.
2. PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
3. STREET LIGHTS, FIRE HYDRANTS, TREES, STORM INLETS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
4. WATER AND WASTEWATER WILL TYPICALLY BE LOCATED ON THE NORTH OR EAST SIDE OF THE ROADWAY AND STORM SEWER AND GAS WILL TYPICALLY BE LOCATED ON THE SOUTH OR WEST SIDE OF THE ROADWAY.
5. SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
6. ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
7. HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES.
8. WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
9. MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
10. ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
11. A 10- FOOT MULTI- USE PATH IS REQUIRED ON ONE SIDE OF THE ROADWAY AS DIRECTED BY CITY ENGINEERING. A 10- FOOT MULTI- USE PATH SHALL BE ON BOTH SIDES OF THE ROADWAY WHEN THE ROADWAY IS INCLUDED IN THE BIKE MASTER PLAN.
12. SIDEWALKS AND MULTI- USE TRAIL SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (TOWARDS STREET) AND SHALL BE A MINIMUM OF 4- INCHES THICK. MULTI- USE PATHS GREATER THAN 6- FEET WIDE SHALL BE 6- INCH THICK CONCRETE OR 5- INCH THICK WITH FIBER MESH.
13. SIDEWALKS AND MULTI- USE TRAILS SHALL BE FREE OF OBSTRUCTIONS (E.G. VAULTS, RISERS), AND SHALL MEANDER AROUND OBSTACLES.
14. A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
15. A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.
16. TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFO	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC/ CONCRETE ENCASED	UGE	MIN. 44" MIN. 36"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

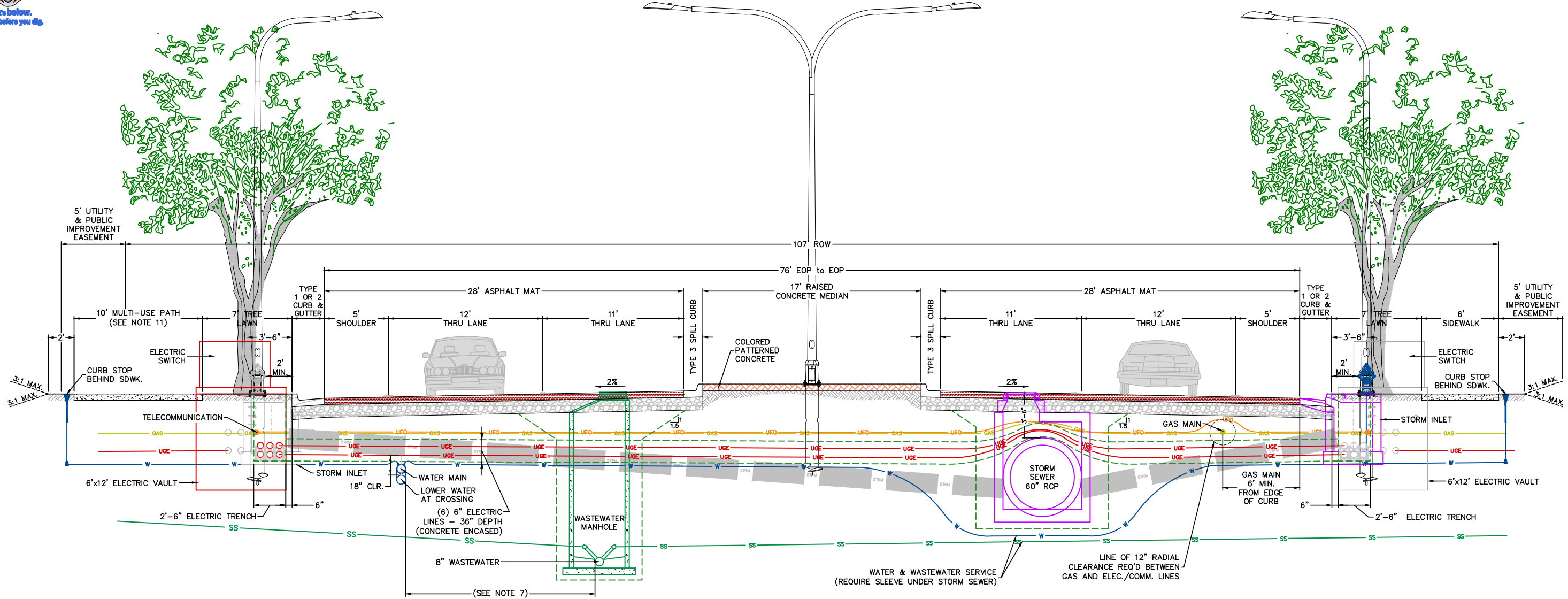
User: KOITMAN Mar 23, 2023 - 10:28am Drawing: E:\PROJECTS\CIP GROUP DOCUMENTS\CADD RESOURCES\STANDARD DETAILS\CURRENT CITY STANDARD DETAILS\MD\STREET SECTIONS.DWG - Layout: TA



**PRINCIPAL ARTERIAL  
TYPE 2 (6 LANES)  
CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1A



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LINE LEGEND		
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GAS	GAS	MIN. 30"
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WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

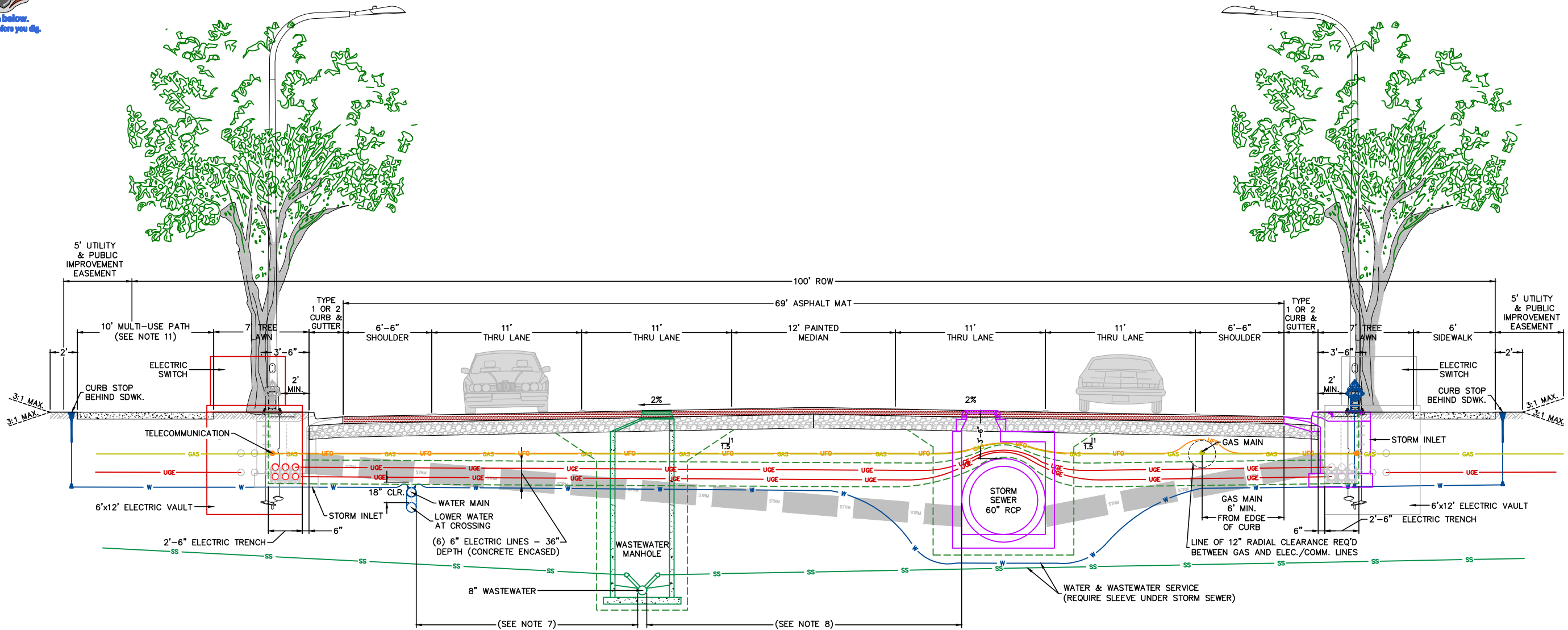
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**PRINCIPAL ARTERIAL  
TYPE 1 (4 LANES)  
CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1B



**NOTES:**

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UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
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WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

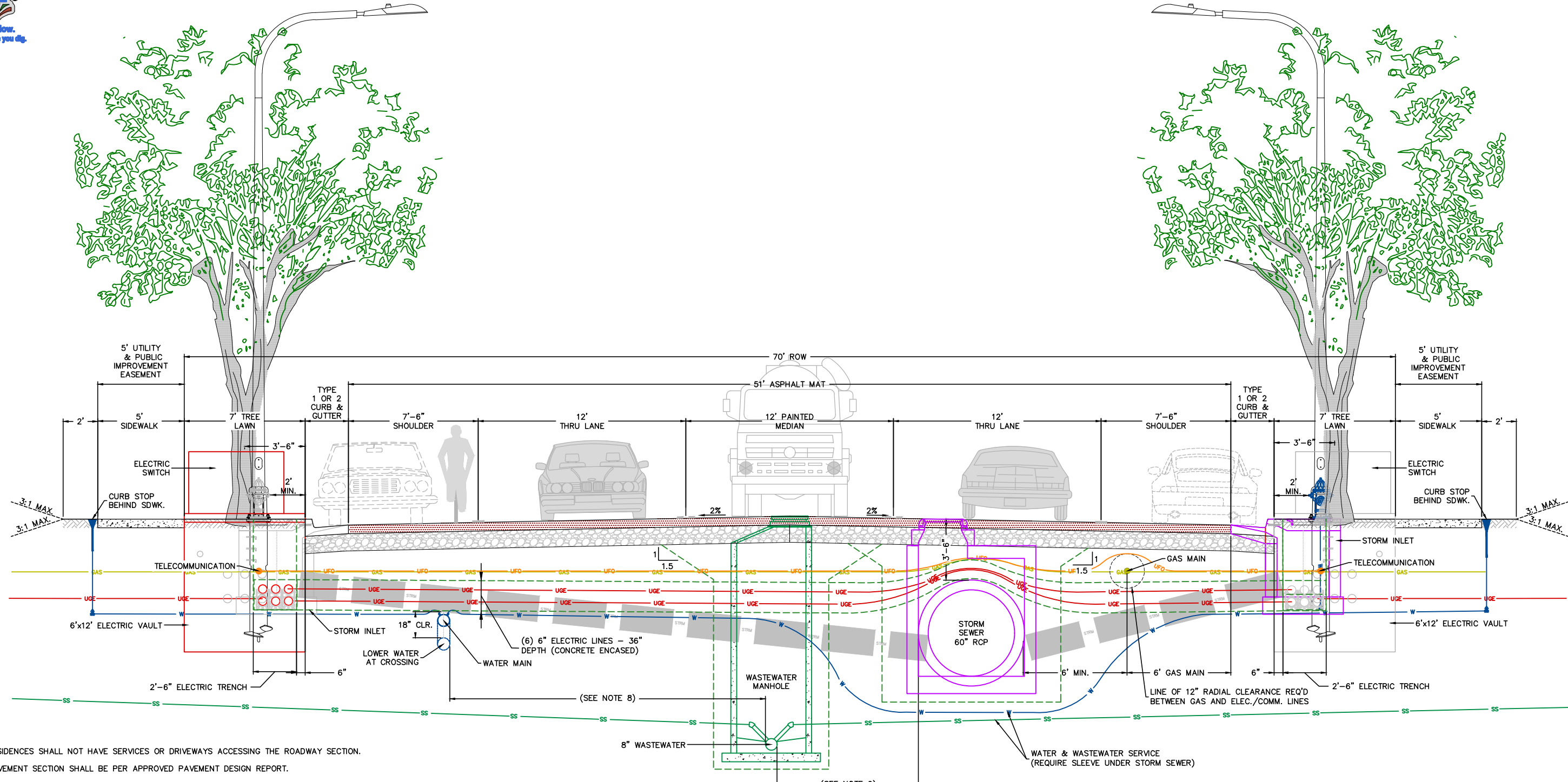
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**MINOR ARTERIAL CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
 CITY ENGINEER  
 ISSUED: 3/23/23    REVISED:    DRAWING NO. 1C



**NOTES:**

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- BIKE LANES AND PARKING CAN BE ACCOMMODATED WITHIN THE ROADWAY WIDTH AS APPROVED BY CITY ENGINEERING.
- WATER AND WASTEWATER WILL TYPICALLY BE LOCATED ON THE NORTH OR EAST SIDE OF THE ROADWAY AND STORM SEWER AND GAS WILL TYPICALLY BE LOCATED ON THE SOUTH OR WEST SIDE OF THE ROADWAY. BIKE LANES AND/OR PARKING WITHIN THE ROADWAY WIDTH AS APPROVED BY CITY ENGINEERING.
- SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
- ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
- HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES.
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GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
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STORM SEWER/STRUCTURES	STRM	PER DCM

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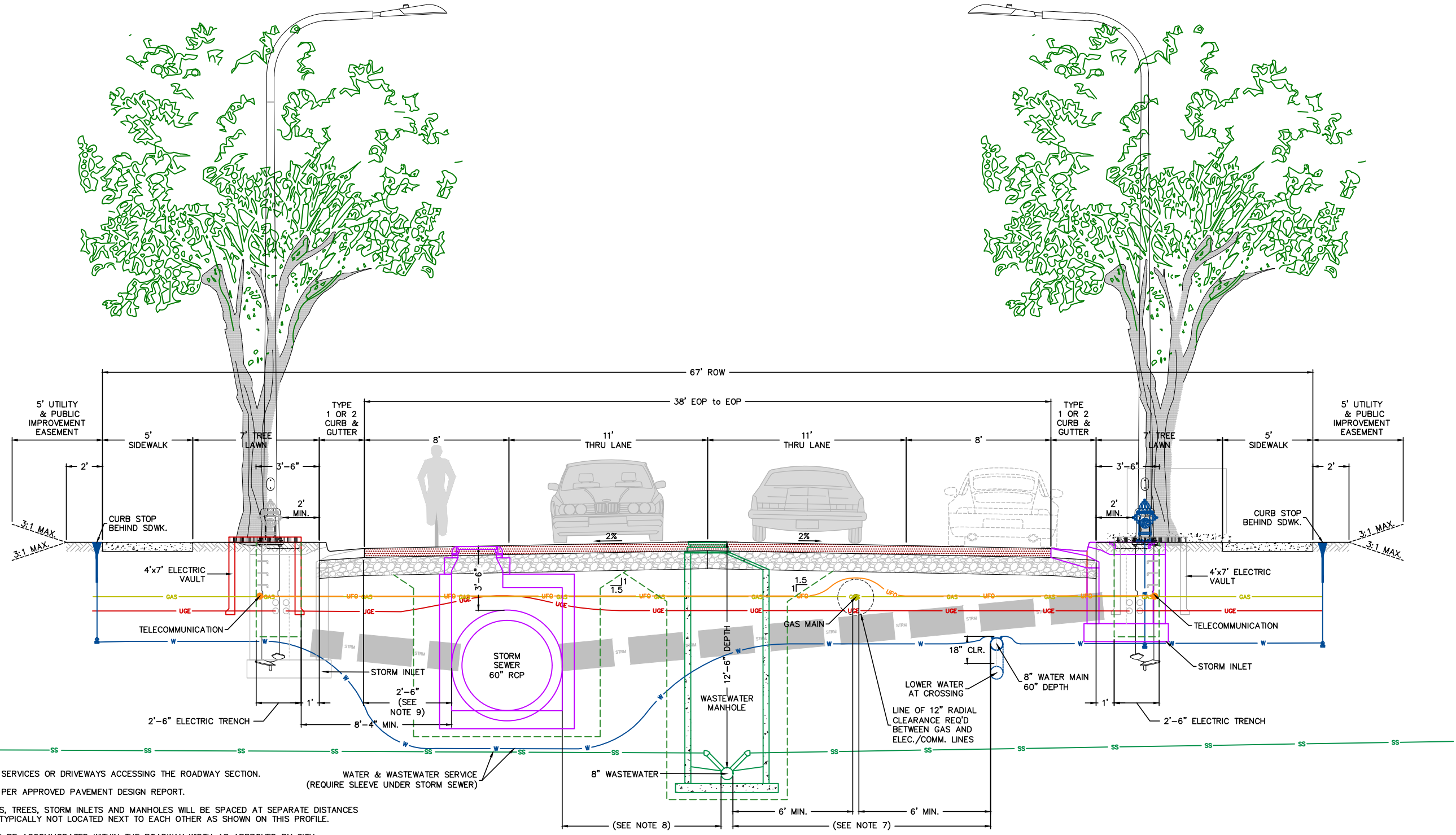


**INDUSTRIAL/  
MAJOR COLLECTOR  
CROSS SECTION**



APPROVED:  
*Jayle Sturdivant*  
CITY ENGINEER

ISSUED: 3/23/23      REVISED:      DRAWING NO. 1D



**NOTES:**

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- HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES.
- WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
- IF THERE IS LESS THAN 5- FEET OF SEPARATION FROM THE STORM SEWER MANHOLE AND INLET, CITY APPROVED FLOWFILL (CLSM) SHALL BE USED FOR BACKFILL TO WITHIN 2- FEET OF THE PAVEMENT SUBGRADE.
- IF THERE IS LESS THAN 21/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
- MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
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- TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).
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**COLLECTOR (67' ROW)  
(w/ GAS IN STREET)  
CROSS SECTION**

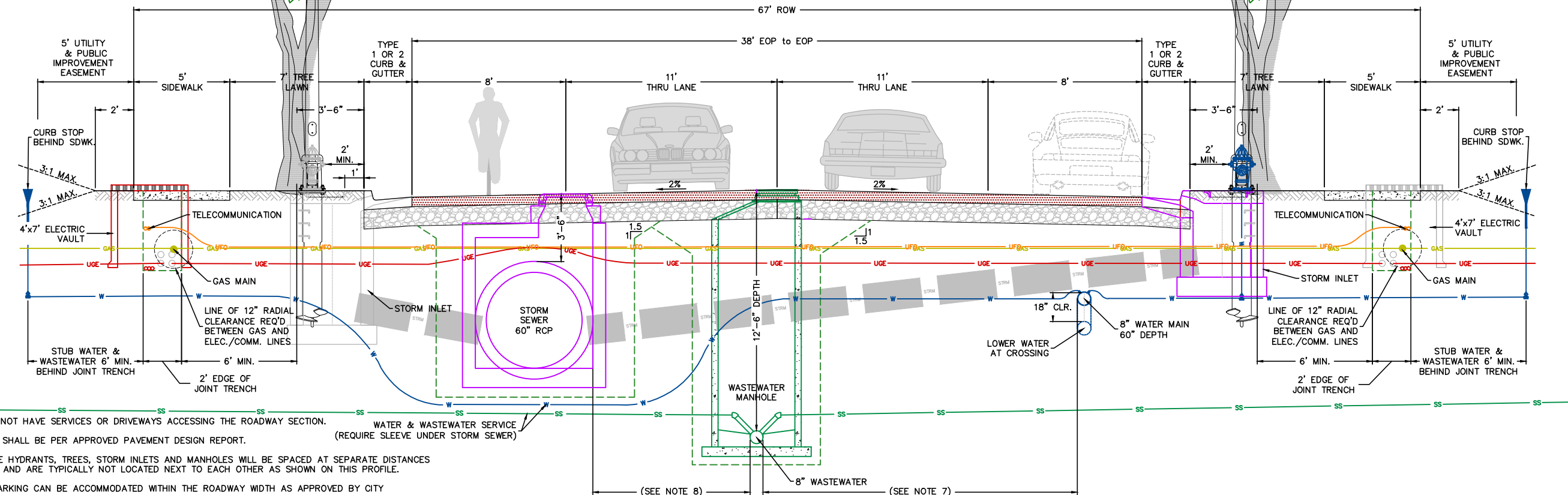


APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1E

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFO	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

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- IF THERE IS LESS THAN 2 1/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
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- A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
- ELECTRIC AND GAS JOINT TRENCH IS TO BE EITHER UNDER THE SIDEWALK (AS SHOWN) OR GAS IN THE STREET. IN SOME AREAS IT IS NOT POSSIBLE TO HAVE THE JOINT TRENCH UNDER THE SIDEWALK, WHICH WILL REQUIRE NO TREES PER NOTE 10.
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**COLLECTOR (67' ROW) w/  
JOINT TRENCH UNDER  
SIDEWALK  
CROSS SECTION**

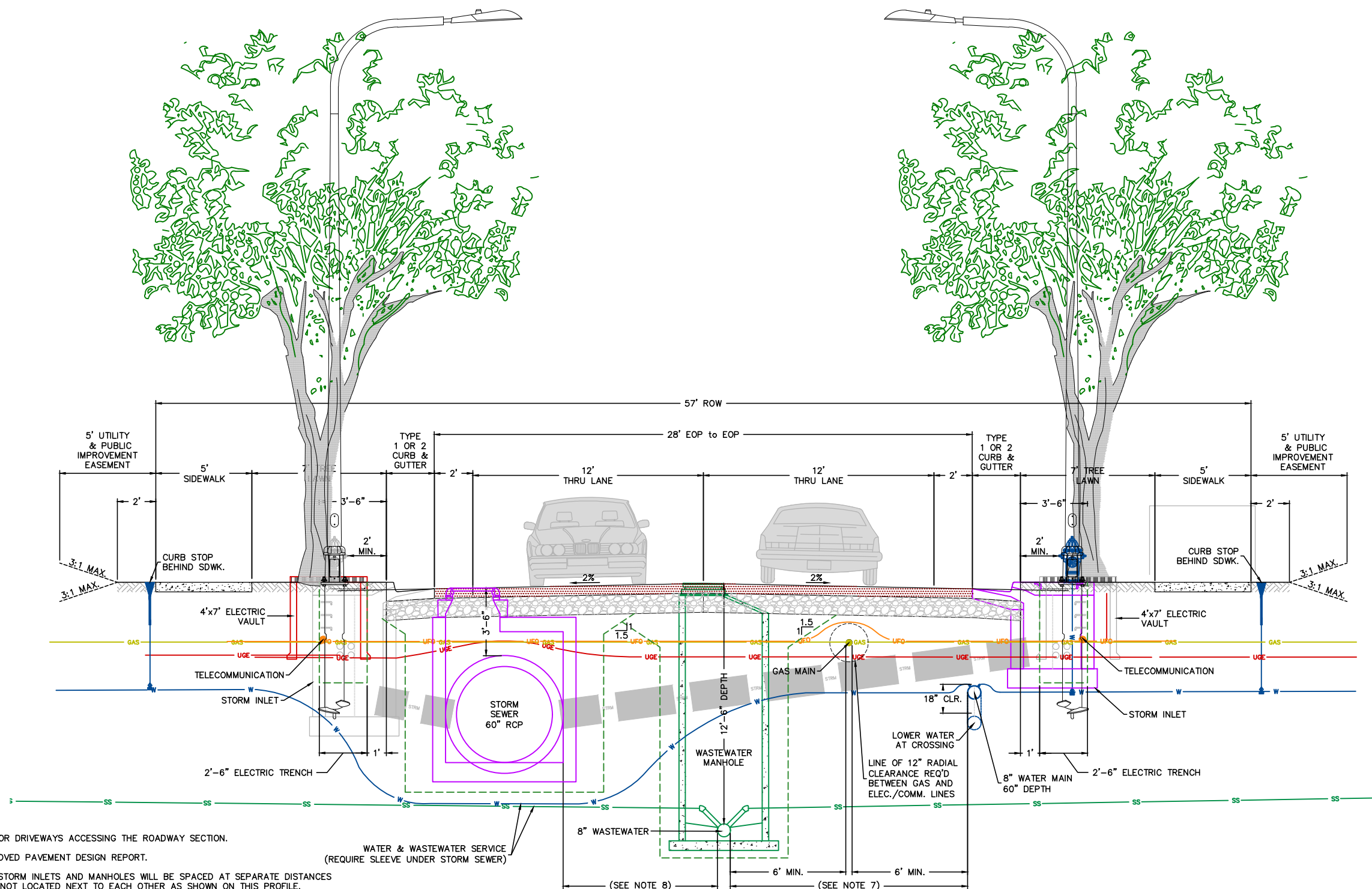


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CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1F

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WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

User: KOITMAN Mar 23, 2023 10:30am Drawing: E:\PROJECTS\... GROUP DOCUMENTS\CADD RESOURCES\STANDARD DETAILS\CURRENT CITY STANDARD DETAILS\WID\STREET SECTIONS.DWG - Layout: TG



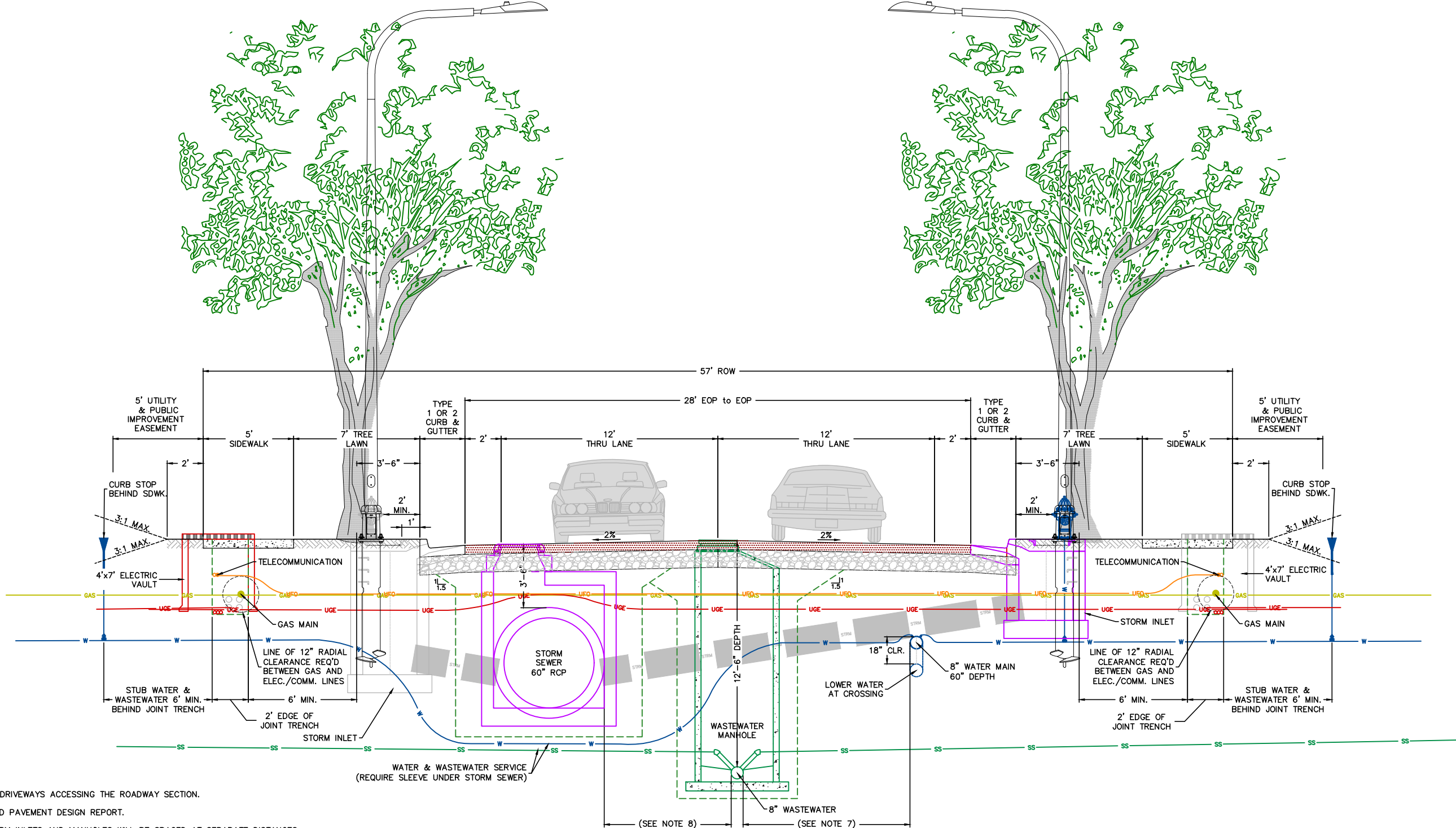
**COLLECTOR (57' ROW)  
(w/ GAS IN STREET)  
CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1G



User: KOITMAN Mar 23, 2023 - 10:31am  
Drawing: E:\PROJECTS\...\_DIP GROUP DOCUMENTS\CAAD RESOURCES\STANDARD DETAILS\CURRENT CITY STANDARD DETAILS\WID\STREET SECTIONS.DWG - Layout: TH



**NOTES:**

1. RESIDENCES SHALL NOT HAVE SERVICES OR DRIVEWAYS ACCESSING THE ROADWAY SECTION.
2. PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
3. STREET LIGHTS, FIRE HYDRANTS, TREES, STORM INLETS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
4. BIKE LANES AND PARKING CAN BE ACCOMMODATED WITHIN THE ROADWAY WIDTH AS APPROVED BY CITY ENGINEERING.
5. SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
6. ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
7. HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES.
8. WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
9. IF THERE IS LESS THAN 5- FEET OF SEPARATION FROM THE STORM SEWER MANHOLE AND INLET, CITY APPROVED FLOWFILL (CLSM) SHALL BE USED FOR BACKFILL TO WITHIN 2- FEET OF THE PAVEMENT SUBGRADE.
10. IF THERE IS LESS THAN 21/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
11. MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
12. ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
13. TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).
14. SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (TOWARDS STREET) AND SHALL BE A MINIMUM OF 4- INCHES THICK.
15. SIDEWALKS SHALL BE FREE OF OBSTRUCTIONS (E.G. VAULTS, RISERS), AND SHALL MEANDER AROUND OBSTACLES.
16. A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
17. ELECTRIC AND GAS JOINT TRENCH IS TO BE EITHER UNDER THE SIDEWALK (AS SHOWN) OR GAS IN THE STREET. IN SOME AREAS IT IS NOT POSSIBLE TO HAVE THE JOINT TRENCH UNDER THE SIDEWALK, WHICH WILL REQUIRE NO TREES PER NOTE 10.
18. A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFD	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM



**COLLECTOR (57' ROW) w/  
JOINT TRENCH UNDER  
SIDEWALK  
CROSS SECTION**

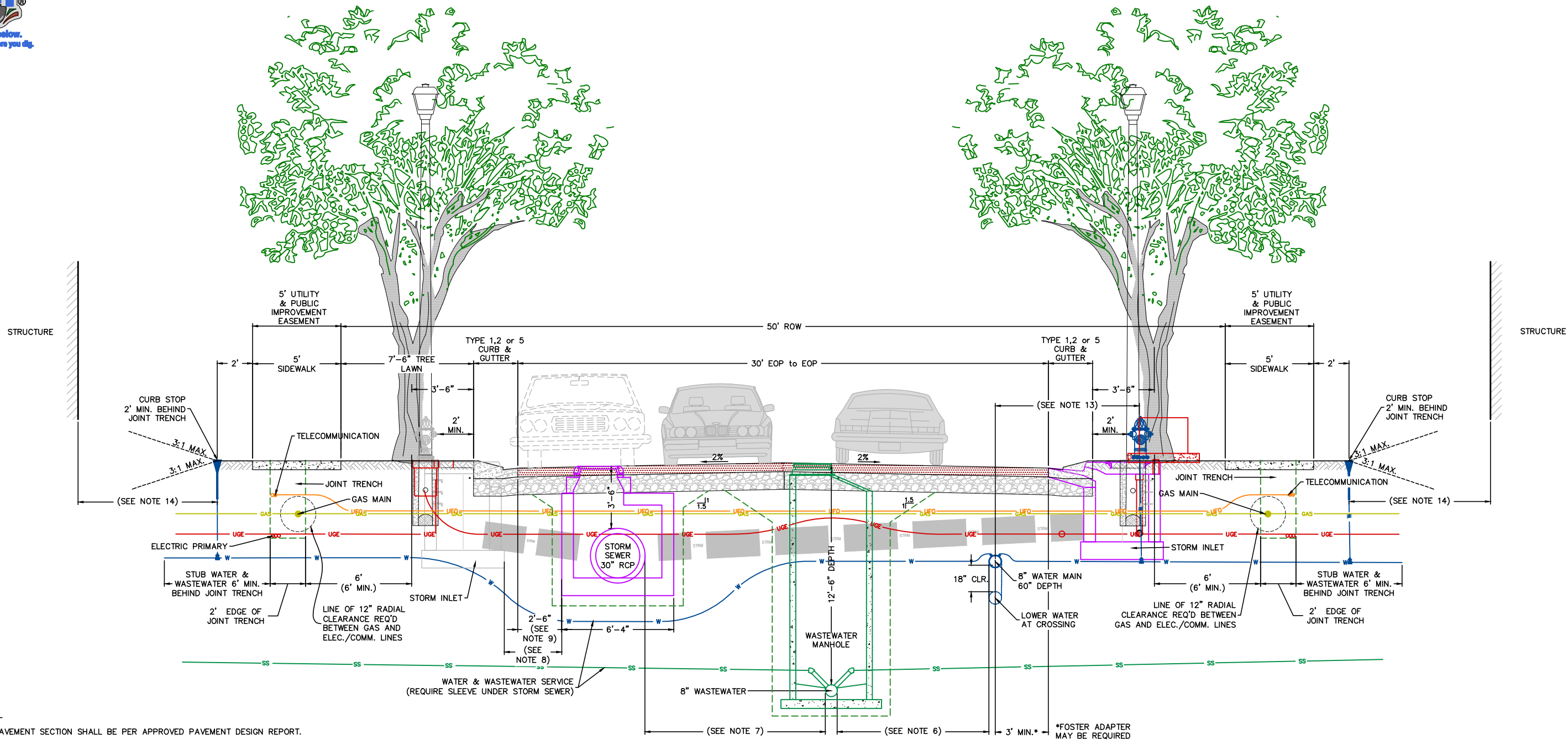


APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1H





Know what's below.  
Call before you dig.



**NOTES:**

- PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
- THIS PROFILE DRAWING DOES NOT APPLY TO TOWNHOME DEVELOPMENTS.
- STREET LIGHTS, FIRE HYDRANTS, TREES, STORM INLETS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
- SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
- ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
- HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET (BETWEEN OUTSIDE EDGE OF PIPES). IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES
- WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
- IF THERE IS LESS THAN 5- FEET OF SEPARATION FROM THE STORM SEWER MANHOLE AND INLET, CITY APPROVED FLOWFILL (CLSM) SHALL BE USED FOR BACKFILL TO WITHIN 2- FEET OF THE PAVEMENT SUBGRADE.
- IF THERE IS LESS THAN 2 1/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
- A MINIMUM SEPARATION DISTANCE OF a) 6- FEET IS REQUIRED FROM CENTER OF WASTEWATER MANHOLE TO EDGE OF CURB AND GUTTER; AND b) 5- FEET FROM CENTER OF WASTEWATER MANHOLE TO OUTSIDE EDGE OF STORM SEWER.
- MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
- ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
- TRANSFORMER (PRIMARY) SHALL HAVE 6-10 FEET OF CLEARANCE FROM ANY WET UTILITY.
- CURB STOP MUST HAVE A MINIMUM OF 9- FEET HORIZONTAL SEPARATION FROM STRUCTURE RECEIVING SERVICE. IF THE 9- FOOT SEPARATION CAN NOT BE MET, A 6- FOOT MINIMUM IS ALLOWED IF THE STRUCTURE HAS A MINIMUM 3- FOOT BELOW FINISHED GRADE FOUNDATION WALL.
- TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).
- SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (TOWARDS STREET) AND SHALL BE A MINIMUM OF 4- INCHES THICK.
- SIDEWALKS SHALL BE FREE OF OBSTRUCTIONS (E.G. VAULTS, RISERS), AND SHALL MEANDER AROUND OBSTACLES.
- A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
- ELECTRIC AND GAS JOINT TRENCH IS TO BE EITHER UNDER THE SIDEWALK (AS SHOWN) OR GAS IN THE STREET. IN SOME AREAS IT IS NOT POSSIBLE TO HAVE THE JOINT TRENCH UNDER THE SIDEWALK, WHICH WILL REQUIRE NO TREES PER NOTE 12.
- A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFD	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

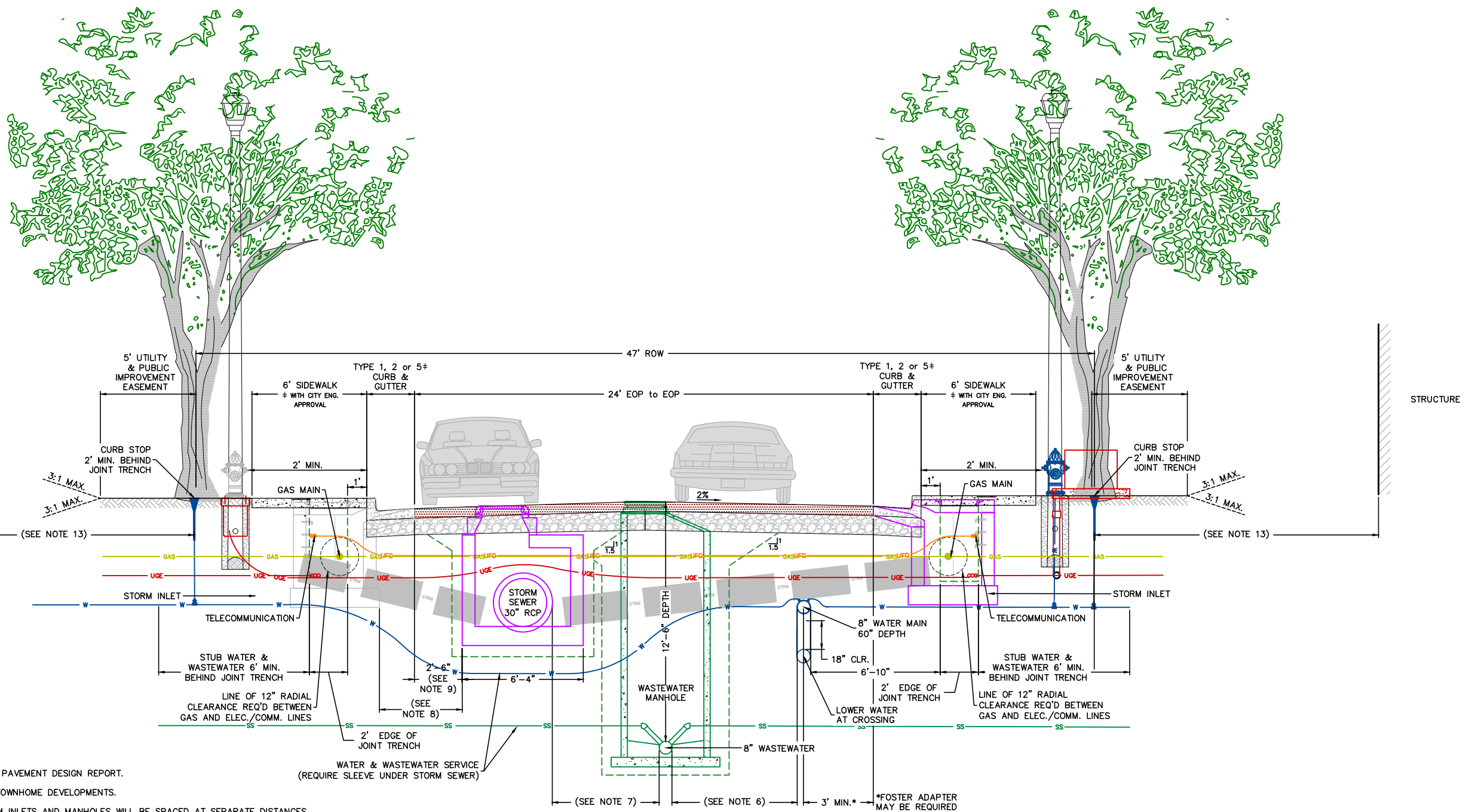
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**RESIDENTIAL  
(LOCAL) (>20 LOTS)  
DETACHED SIDEWALK  
CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23  
REVISED:  
DRAWING NO. 11



**NOTES:**

- PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
- THIS PROFILE DRAWING DOES NOT APPLY TO TOWNHOME DEVELOPMENTS.
- STREET LIGHTS, FIRE HYDRANTS, TREES, STORM INLETS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
- SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
- ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
- HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET (BETWEEN OUTSIDE EDGE OF PIPES). IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES
- WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
- IF THERE IS LESS THAN 5- FEET OF SEPARATION FROM THE STORM SEWER MANHOLE AND INLET, CITY APPROVED FLOWFILL (CLSM) SHALL BE USED FOR BACKFILL TO WITHIN 2- FEET OF THE PAVEMENT SUBGRADE.
- IF THERE IS LESS THAN 2 1/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
- A MINIMUM SEPARATION DISTANCE OF a) 6- FEET IS REQUIRED FROM CENTER OF WASTEWATER MANHOLE TO EDGE OF CURB AND GUTTER; AND b) 5- FEET FROM CENTER OF WASTEWATER MANHOLE TO OUTSIDE EDGE OF STORM SEWER.
- MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
- ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
- CURB STOP MUST HAVE A MINIMUM OF 9- FEET HORIZONTAL SEPARATION FROM STRUCTURE RECEIVING SERVICE. IF THE 9- FOOT SEPARATION CAN NOT BE MET, A 6- FOOT MINIMUM IS ALLOWED IF THE STRUCTURE HAS A MINIMUM 3- FOOT BELOW FINISHED GRADE FOUNDATION WALL.
- TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).
- SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (TOWARDS STREET) AND SHALL BE A MINIMUM OF 4- INCHES THICK.
- SIDEWALKS SHALL BE FREE OF OBSTRUCTIONS (E.G. VAULTS, RISERS), AND SHALL MEANDER AROUND OBSTACLES.
- A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
- ELECTRIC AND GAS JOINT TRENCH IS TO BE EITHER UNDER THE SIDEWALK (AS SHOWN) OR GAS IN THE STREET. IN SOME AREAS IT IS NOT POSSIBLE TO HAVE THE JOINT TRENCH UNDER THE SIDEWALK, WHICH WILL REQUIRE NO TREES PER NOTE 12.
- A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFO	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

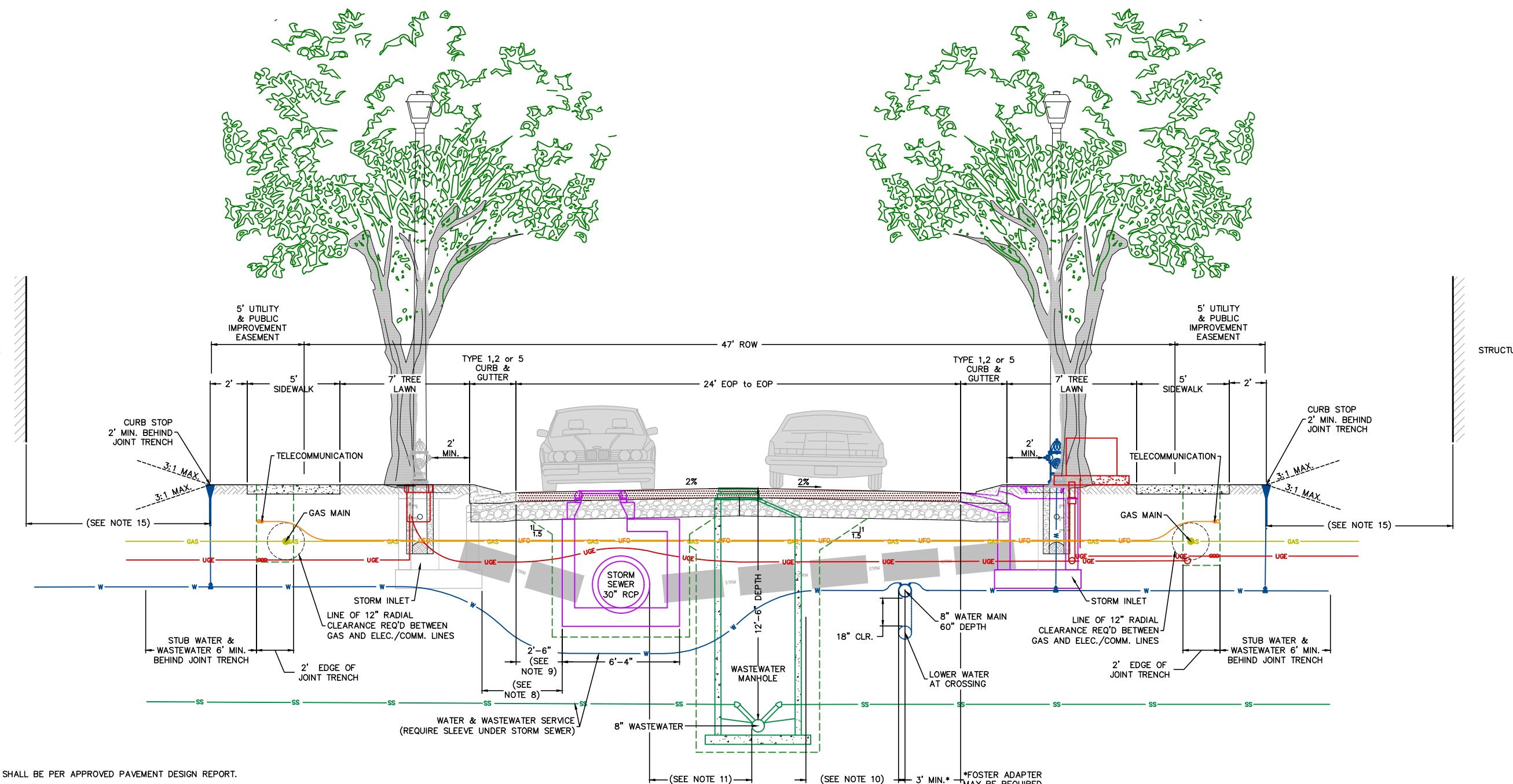
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**MINOR RESIDENTIAL  
(LOCAL) (<21 LOTS)  
ATTACHED SIDEWALKS  
CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23    REVISED:    DRAWING NO. 1J



**NOTES:**

- PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
- THIS PROFILE DRAWING DOES NOT APPLY TO TOWNHOME DEVELOPMENTS.
- STREET LIGHTS, FIRE HYDRANTS, TREES, STORM INLETS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
- SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
- ELECTRIC AND GAS JOINT TRENCH IS TO BE EITHER UNDER THE SIDEWALK (AS SHOWN) OR GAS IN THE STREET. IN SOME AREAS IT IS NOT POSSIBLE TO HAVE THE JOINT TRENCH UNDER THE SIDEWALK, WHICH WILL REQUIRE NO TREES PER NOTE 16.
- ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
- FIRE HYDRANTS REQUIRE A 5-FOOT MINIMUM RADIAL CLEARANCE FROM ANY STRUCTURE.
- IF THERE IS LESS THAN 5- FEET OF SEPARATION FROM THE STORM SEWER MANHOLE AND INLET, CITY APPROVED CLSM SHALL BE USED FOR BACKFILL TO WITHIN 2- FEET OF THE PAVEMENT SUBGRADE.
- IF THERE IS LESS THAN 2 1/2- FEET OF SEPARATION FROM OUTSIDE EDGE OF STORM SEWER MANHOLE AND LIP OF GUTTER, CITY APPROVED FLOWFILL (CLSM) IS REQUIRED; 1- FOOT BEYOND THE MANHOLE STRUCTURE HORIZONTALLY PARALLEL TO CURB & GUTTER, SHALL EXTEND COMPLETELY UNDER THE CURB AND GUTTER, AND WITHIN 2- FEET OF PAVEMENT SUBGRADE VERTICALLY.
- HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE STORM SEWER/WASTEWATER IS BETWEEN 5- FEET TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES
- WHEN SEPARATION BETWEEN WASTEWATER AND STORM SEWER IS BETWEEN 5 TO 10- FEET, SECONDARY CONTAINMENT WILL BE REQUIRED.
- A MINIMUM SEPARATION DISTANCE OF a) 6- FEET IS REQUIRED FROM CENTER OF WASTEWATER MANHOLE TO EDGE OF CURB AND GUTTER; AND b) 5- FEET FROM CENTER OF WASTEWATER MANHOLE TO OUTSIDE EDGE OF STORM SEWER.
- MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
- ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
- CURB STOP MUST HAVE A MINIMUM OF 9- FEET HORIZONTAL SEPARATION FROM STRUCTURE RECEIVING SERVICE. IF THE 9- FOOT SEPARATION CAN NOT BE MET, A 6- FOOT MINIMUM IS ALLOWED IF THE STRUCTURE HAS A MINIMUM 3- FOOT BELOW FINISHED GRADE FOUNDATION WALL.
- TREES MAY NOT BE PLANTED WITHIN 6- FEET OF A NATURAL GAS PIPE (MAIN OR SERVICE).
- SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (TOWARDS STREET) AND SHALL BE A MINIMUM OF 4- INCHES THICK.
- SIDEWALKS SHALL BE FREE OF OBSTRUCTIONS (E.G. VAULTS, RISERS), AND SHALL MEANDER AROUND OBSTACLES.
- A 2- FOOT WIDE FLAT BUFFER AREA IS REQUIRED ADJACENT TO THE SIDEWALK.
- A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFD	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"
STORM SEWER/STRUCTURES	STRM	PER DCM

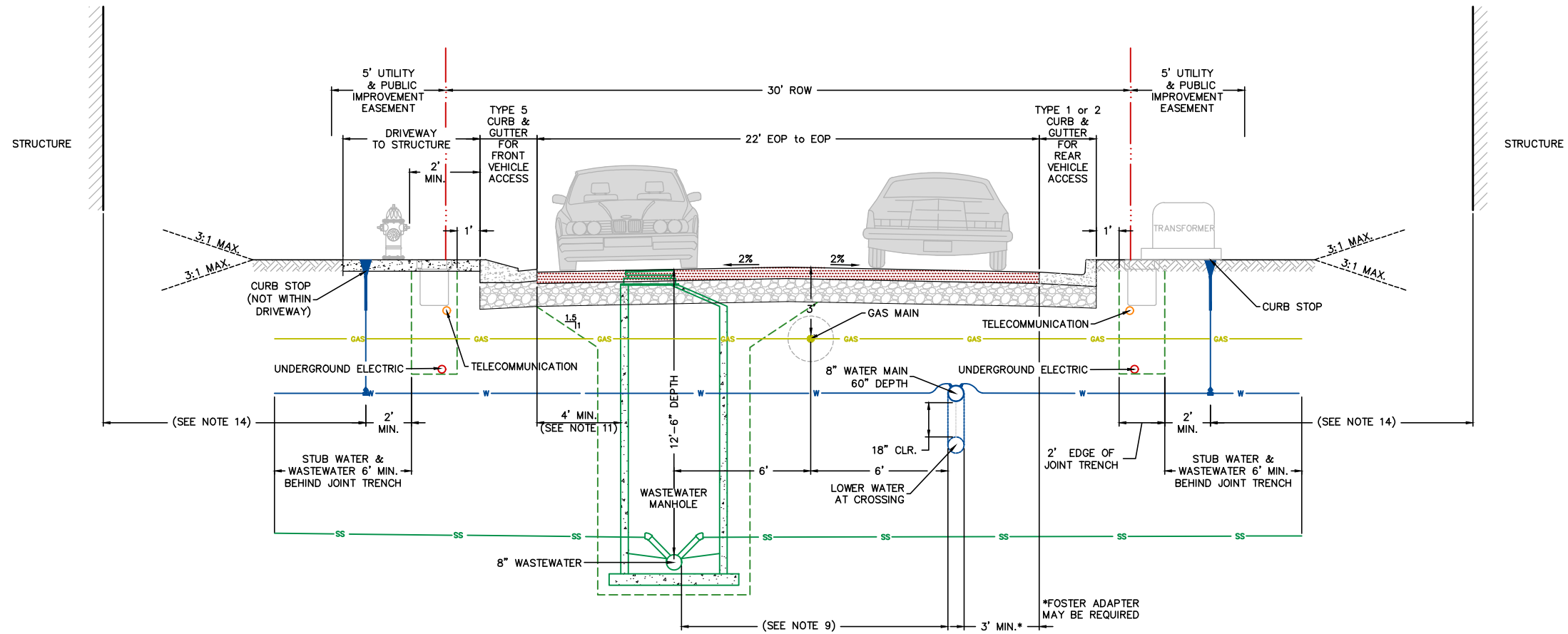
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**MINOR RESIDENTIAL (LOCAL) (<21 LOTS) DETACHED SIDEWALKS CROSS SECTION**



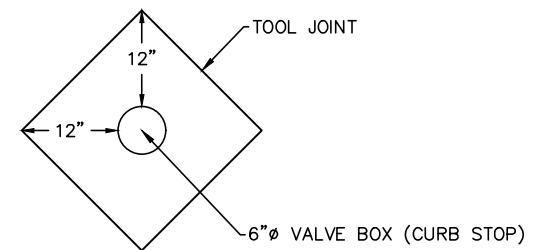
APPROVED:  
*Gayle Sturdivant*  
 CITY ENGINEER  
 ISSUED: 3/23/23    REVISED:    DRAWING NO. 1K



**NOTES:**

- THIS CROSS SECTION MAY ONLY BE USED IF THE FOLLOWING REQUIREMENTS ARE MET:
1. PAVEMENT SECTION SHALL BE PER APPROVED PAVEMENT DESIGN REPORT.
  2. COLORADO SPRINGS FIRE DEPARTMENT MUST APPROVE TURN-AROUND PROVIDED (E.G. TURN AROUND, TURNING RADII AND CUL-DE-SAC).
  3. FIRE HYDRANTS AND MANHOLES WILL BE SPACED AT SEPARATE DISTANCES ALONG THE STREET AND ARE TYPICALLY NOT LOCATED NEXT TO EACH OTHER AS SHOWN ON THIS PROFILE.
  4. ON-STREET PARKING IS NOT PERMITTED. ACCOMMODATIONS MUST BE PROVIDED FOR VISITOR PARKING.
  5. STREET LIGHTS ARE NOT PERMITTED.
  6. SEE TYPICAL PARALLEL (SEPARATE TRENCHES) AND CROSSING CLEARANCE MATRIX FOR COLORADO SPRINGS UNDERGROUND UTILITIES.
  7. ALL DEPTH DIMENSIONS ARE FROM FINISHED GRADE TO TOP OF PIPE.
  8. FIRE HYDRANTS REQUIRE A 5-FOOT MINIMUM RADIAL CLEARANCE FROM ANY STRUCTURE.
  9. HDPE PIPE SHALL BE USED FOR WATER MAIN IF SEPARATION FROM THE WASTEWATER IS BETWEEN 5 TO 10- FEET. IN NO CASE SHALL THERE BE NO LESS THAN 5- FEET OF SEPARATION BETWEEN THE WATER MAIN AND OTHER WET UTILITIES.

10. STORMWATER INFRASTRUCTURE IS NOT PERMITTED IN THE RIGHT-OF-WAY. FINAL DRAINAGE REPORT IS REQUIRED WHEN STREET SECTIONS ARE DETERMINED.
11. A MINIMUM SEPARATION DISTANCE OF 6- FEET IS REQUIRED FROM CENTER OF WASTEWATER MANHOLE TO EDGE OF CURB AND GUTTER.
12. MANHOLE LIDS SHALL BE CENTERED IN THE LANE, WHEN IN A TRAVEL LANE.
13. ALL VALVES AND MANHOLES SHALL BE WITHIN A 1/4- INCH OF THE FINISHED ASPHALT SURFACE.
14. CURB STOP MUST HAVE A MINIMUM OF 9- FEET HORIZONTAL SEPARATION FROM STRUCTURE RECEIVING SERVICE. IF THE 9- FOOT SEPARATION CAN NOT BE MET, A 6- FOOT MINIMUM IS ALLOWED IF THE STRUCTURE HAS A MINIMUM 3- FOOT BELOW FINISHED GRADE FOUNDATION WALL.
15. CURB STOP LOCATED WITHIN THE DRIVEWAY SHALL BE APPROVED BY CSU; VALVE COVER SHALL BE TRAFFIC RATED AND INSTALLED PER DETAIL (SEE RIGHT).
16. TREES ARE NOT PERMITTED IN STREET SECTION. AN ALTERNATE LOCATION SHALL BE PROVIDED PER THE LANDSCAPE MANUAL AND PLANNING APPROVAL.
17. A MINIMUM SETBACK OF 15- FEET FROM BACK OF CURB TO STRUCTURE IS REQUIRED TO MEET CSU'S SEPARATION REQUIREMENT BETWEEN STRUCTURES AND UTILITIES. IF A SETBACK OF LESS THAN 15- FEET IS DESIRED, PLEASE REFER TO THE CONSTRUCTION PLAN REVIEW PAGE ON CSU'S WEBSITE.
18. SIDEWALK IS NOT PERMITTED. AN ALTERNATE PEDESTRIAN ACCESS ROUTE (P.A.R.) SHALL BE PROVIDED, AND APPROVED BY THE CITY ENGINEER.



**CURB STOP IN DRIVEWAY DETAIL**

LINE LEGEND		
UTILITY	SYMBOL	DEPTH TO TOP OF PIPE
TELECOMMUNICATIONS	UFO	MIN. 30"
GAS	GAS	MIN. 30"
UNDERGROUND ELECTRIC	UGE	MIN. 44"
WATER	W	MIN. 60"
WASTEWATER	SS	MIN. 60"

User: KOITMAN Mar 23, 2023 - 10:32am Drawing: E:\PROJECTS\CIP GROUP DOCUMENTS\CADD RESOURCES\STANDARD DETAILS\VD\STREET SECTIONS.DWG - Layout: 1L



**HIGH DENSITY SINGLE-FAMILY RESIDENTIAL CROSS SECTION**



APPROVED:  
*Gayle Sturdivant*  
CITY ENGINEER  
ISSUED: 3/23/23  
REVISED:  
DRAWING NO. 1L