

STORM SEWER ITEMS

| | | 520.8000 | | 608.0418 | | 608.0424 | | 611.0610 | 611.3004 | 612.0406 | SPV.0060.03 | SPV.0060.04 | | |
|----------|----------|---------------------------|-----------|---|-----------|---|-----|----------------------|----------------------|--------------------------------|--------------------------|--------------------------|------|-------------------------|
| | | CONCRETE COLLARS FOR PIPE | | STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH | | STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH | | INLET COVERS TYPE BW | INLETS 4-FT DIAMETER | PIPE UNDERDRAIN WRAPPED 6-INCH | PIPE CHECK VALVE 18-INCH | PIPE CHECK VALVE 24-INCH | | |
| | LOCATION | STATION | OFFSET | STATION | OFFSET | EACH | LF | LF | EACH | EACH | LF | EACH | EACH | REMARKS |
| MAINLINE | IH 39 SB | 57'SB'+06.07 | 27.9' LT | 57'SB'+06.08 | 33' LT | 1 | --- | 5.1 | --- | --- | --- | --- | --- | PIPE P5 |
| | IH 39 SB | 57'SB'+06.08 | 33' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 301 |
| | IH 39 SB | 57'SB'+06.08 | 33' LT | 57'SB'+06.13 | 50.9' LT | --- | --- | 17.9 | --- | --- | --- | 1 | --- | PIPE P6 & STRUCTURE 201 |
| | IH 39 SB | 58'SB'+74.58 | 35.4' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 401 |
| | IH 39 SB | 58'SB'+74.58 | 35.4' LT | 58'SB'+74.58 | 59.4' LT | --- | 24 | --- | --- | --- | 1 | --- | --- | PIPE P1 & STRUCTURE 202 |
| | IH 39 SB | 58'SB'+74.58 | 35.4' LT | 59'SB'+06.94 | 35.3' LT | --- | 32 | --- | --- | --- | --- | --- | --- | PIPE P2 |
| | IH 39 SB | 59'SB'+06.94 | 35.3' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 402 |
| | IH 39 SB | 59'SB'+58.61 | 52.6' LT | 59'SB'+58.74 | 34.5' LT | --- | --- | 18.2 | --- | --- | --- | 1 | --- | PIPE P8 & STRUCTURE 203 |
| | IH 39 SB | 59'SB'+58.74 | 34.5' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 302 |
| | IH 39 SB | 59'SB'+58.74 | 34.5' LT | 59'SB'+58.78 | 27.9' LT | 1 | --- | 6.5 | --- | --- | --- | --- | --- | PIPE P7 |
| | IH 39 SB | 61'SB'+00 | 33' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 403 |
| | IH 39 SB | 61'SB'+00 | 33' LT | 61'SB'+00 | 57' LT | --- | 24 | --- | --- | --- | 1 | --- | --- | PIPE P3 & STRUCTURE 204 |
| | IH 39 SB | 63'SB'+25 | 33' LT | --- | --- | --- | --- | --- | 1 | 1 | --- | --- | --- | STRUCTURE 404 |
| | IH 39 SB | 63'SB'+25 | 33' LT | 63'SB'+25 | 57' LT | --- | 24 | --- | --- | --- | 1 | --- | --- | PIPE P4 & STRUCTURE 205 |
| | IH 39 SB | 58'SB'+45 | 28.75' LT | 64'SB'+75 | 28.75' LT | --- | --- | --- | --- | 610.5 | --- | --- | --- | --- |
| TOTAL | | | | | | 2 | 104 | 48 | 6 | 6 | 610.5 | 3 | 2 | |

STORM SEWER / CULVERT PIPE

| | LOCATION | | | SIZE | LENGTH | TYPE | PIPE NAME | GRADE | INVERT ELEVATION | | REMARKS | PIPE CHECK VALVE | PIPE CHECK VALVE | CONCRETE |
|----------|----------|-----|-------|------|--------|-------|-----------|-------|------------------|-----------|--|------------------|------------------|----------|
| | LOCATION | TO | FROM | IN | FT | | | % | INLET | DISCHARGE | | 18-INCH | 24-INCH | COLLAR |
| MAINLINE | IH 39 SB | 301 | EXIST | 24 | 5.1 | CL IV | P5 | 1.34 | 786.00 | 785.93 | --- | --- | --- | 1 |
| | IH 39 SB | 201 | 301 | 24 | 17.9 | CL IV | P6 | 1.34 | 785.93 | 785.69 | INSTALL PIPE CHECK VALVE AT PIPE DISCHARGE | --- | 1 | --- |
| | IH 39 SB | 202 | 401 | 18 | 24 | CL IV | P1 | 0.30 | 786.51 | 786.44 | INSTALL PIPE CHECK VALVE AT PIPE DISCHARGE | 1 | --- | --- |
| | IH 39 SB | 401 | 402 | 18 | 32 | CL IV | P2 | 0.30 | 786.51 | 786.61 | --- | --- | --- | --- |
| | IH 39 SB | 302 | EXIST | 24 | 6.5 | CL IV | P7 | 1.44 | 786.10 | 786.00 | --- | --- | --- | 1 |
| | IH 39 SB | 203 | 302 | 24 | 18.2 | CL IV | P8 | 1.44 | 786.00 | 785.74 | INSTALL PIPE CHECK VALVE AT PIPE DISCHARGE | --- | 1 | --- |
| | IH 39 SB | 204 | 403 | 18 | 24 | CL IV | P3 | 0.30 | 787.20 | 787.12 | INSTALL PIPE CHECK VALVE AT PIPE DISCHARGE | 1 | --- | --- |
| | IH 39 SB | 205 | 404 | 18 | 24 | CL IV | P4 | 0.30 | 787.77 | 787.70 | INSTALL PIPE CHECK VALVE AT PIPE DISCHARGE | 1 | --- | --- |

STORM SEWER / CULVERT PIPE GENERAL NOTES

1) PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO PIPE END.

DRAINAGE STRUCTURES

| | LOCATION | STRUCTURE NO. | STRUCTURE TYPE | STATION | OFFSET | COVER | RIM | PIPE INVERT | TOP OF STRUCTURE BASE | **DEPTH | REMARKS | INLET PROTECTION |
|----------|----------|--------------------------|--------------------------|--------------|----------|-------|-----------|-------------|-----------------------|---|---|------------------|
| | | | INLET / PIPE CHECK VALVE | | | TYPE | ELEVATION | ELEVATION | ELEVATION | FT | | TYPE |
| MAINLINE | IH 39 SB | 301 | INLETS 4-FT DIAMETER | 57'SB'+06.08 | 33' LT | BW | 789.99 | 785.93 | 785.68 | 3.15 | | D |
| | IH 39 SB | 201 | PIPE CHECK VALVE 24-INCH | 57'SB'+06.13 | 50.9' LT | --- | --- | 785.69 | --- | --- | INVERT ELEVATION IS THE CONNECTING PIPE DISCHARGE ELEVATION | --- |
| | IH 39 SB | 401 | INLETS 4-FT DIAMETER | 58'SB'+74.58 | 35.4' LT | BW | 790.31 | 786.51 | 786.30 | 2.85 | --- | D |
| | IH 39 SB | 202 | PIPE CHECK VALVE 18-INCH | 58'SB'+74.58 | 59.4' LT | --- | --- | 786.44 | --- | --- | INVERT ELEVATION IS THE CONNECTING PIPE DISCHARGE ELEVATION | --- |
| | IH 39 SB | 402 | INLETS 4-FT DIAMETER | 59'SB'+06.94 | 35.3' LT | BW | 790.39 | 786.61 | 786.40 | 2.83 | --- | D |
| | IH 39 SB | 203 | PIPE CHECK VALVE 24-INCH | 59'SB'+58.61 | 52.6' LT | --- | --- | 785.74 | --- | --- | --- | --- |
| | IH 39 SB | 302 | INLETS 4-FT DIAMETER | 59'SB'+58.74 | 34.5' LT | BW | 790.60 | 786.00 | 785.75 | 3.69 | --- | D |
| | IH 39 SB | 403 | INLETS 4-FT DIAMETER | 61'SB'+00 | 33' LT | BW | 790.99 | 787.2 | 786.99 | 2.84 | --- | D |
| | IH 39 SB | 204 | PIPE CHECK VALVE 18-INCH | 61'SB'+00 | 57' LT | --- | --- | 787.12 | --- | --- | INVERT ELEVATION IS THE CONNECTING PIPE DISCHARGE ELEVATION | --- |
| | IH 39 SB | 404 | INLETS 4-FT DIAMETER | 63'SB'+25 | 33' LT | BW | 791.56 | 787.77 | 787.56 | 2.84 | --- | D |
| IH 39 SB | 205 | PIPE CHECK VALVE 18-INCH | 63'SB'+25 | 57' LT | --- | --- | 787.70 | --- | --- | INVERT ELEVATION IS THE CONNECTING PIPE DISCHARGE ELEVATION | --- | |

DRAINAGE STRUCTURE GENERAL NOTES

- 1) STATIONS AND OFFSETS TO INLET STRUCTURES ARE TO THE CENTER OF THE STRUCTURE.
- 2) STATIONS AND OFFSETS TO PIPE CHECK VALVES ARE TO THE DISCHARGE END OF THE EXISTING/PROPOSED PIPE END.
- 3) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE OF PROPOSED CURB AND GUTTER FOR INLET STRUCTURES UNLESS OTHERWISE NOTED.

ADDITIONAL NOTES:

**STRUCTURE DEPTH:

INLETS = RIM ELEVATION - TOP OF STRUCTURE BASE - CASTING HEIGHT (0.83 FT) - ADJUSTING RINGS (0.33 FT)

CASTING HEIGHT = 0.83 FT FOR INLET COVERS TYPE BW

ADJUSTING RINGS = 0.33 FT FOR INLET COVERS TYPE BW