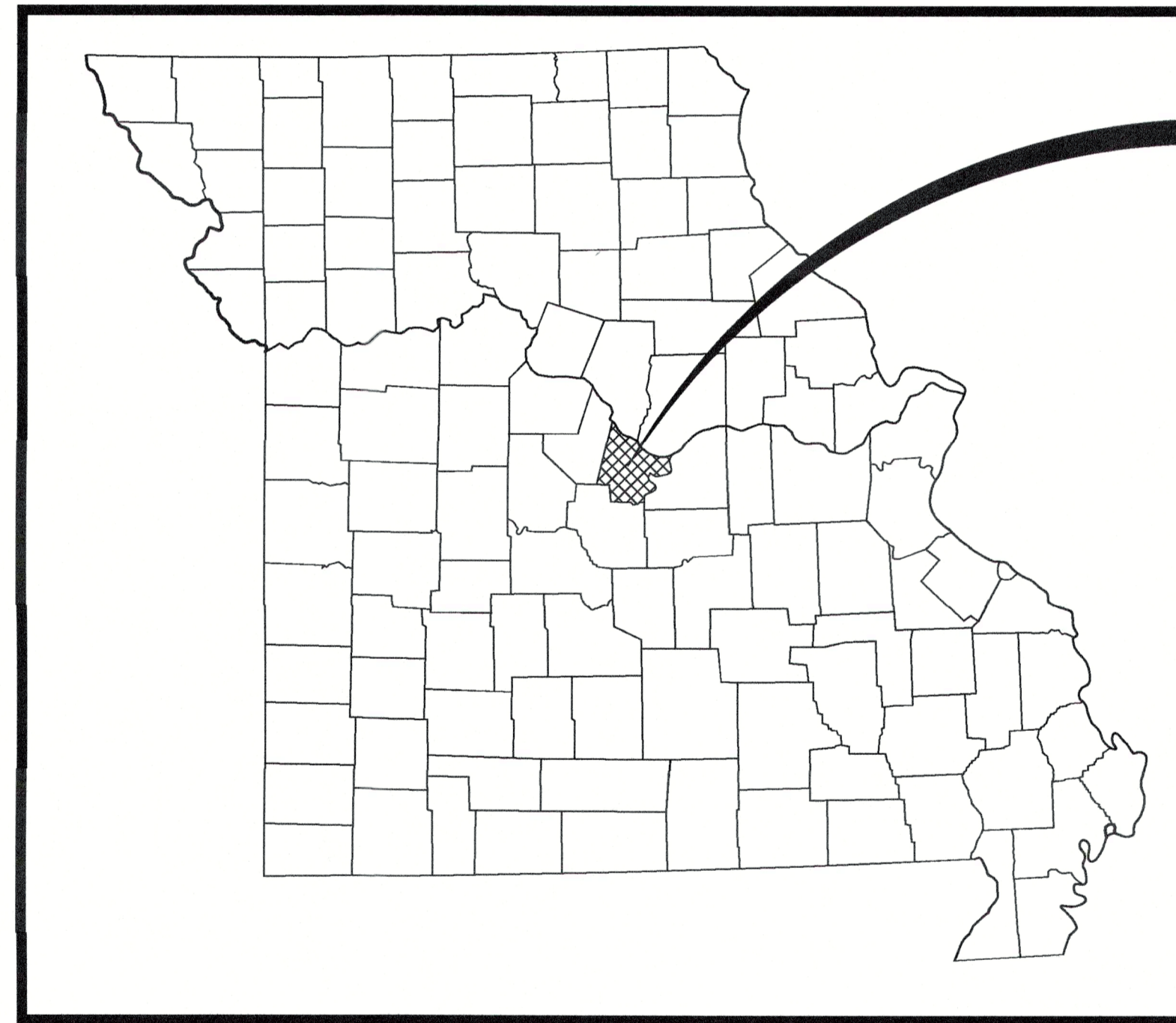
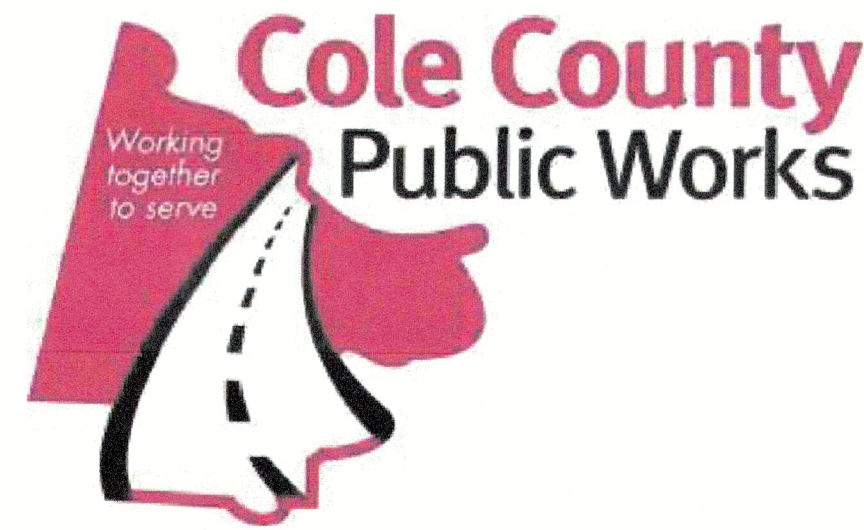


# COUNTY OF COLE LAKEWOOD SUBDIVISION STORMWATER IMPROVEMENT PROJECT NO. 2023-201-1

## CONSTRUCTION PLANS COLE COUNTY, MO. DECEMBER 2024

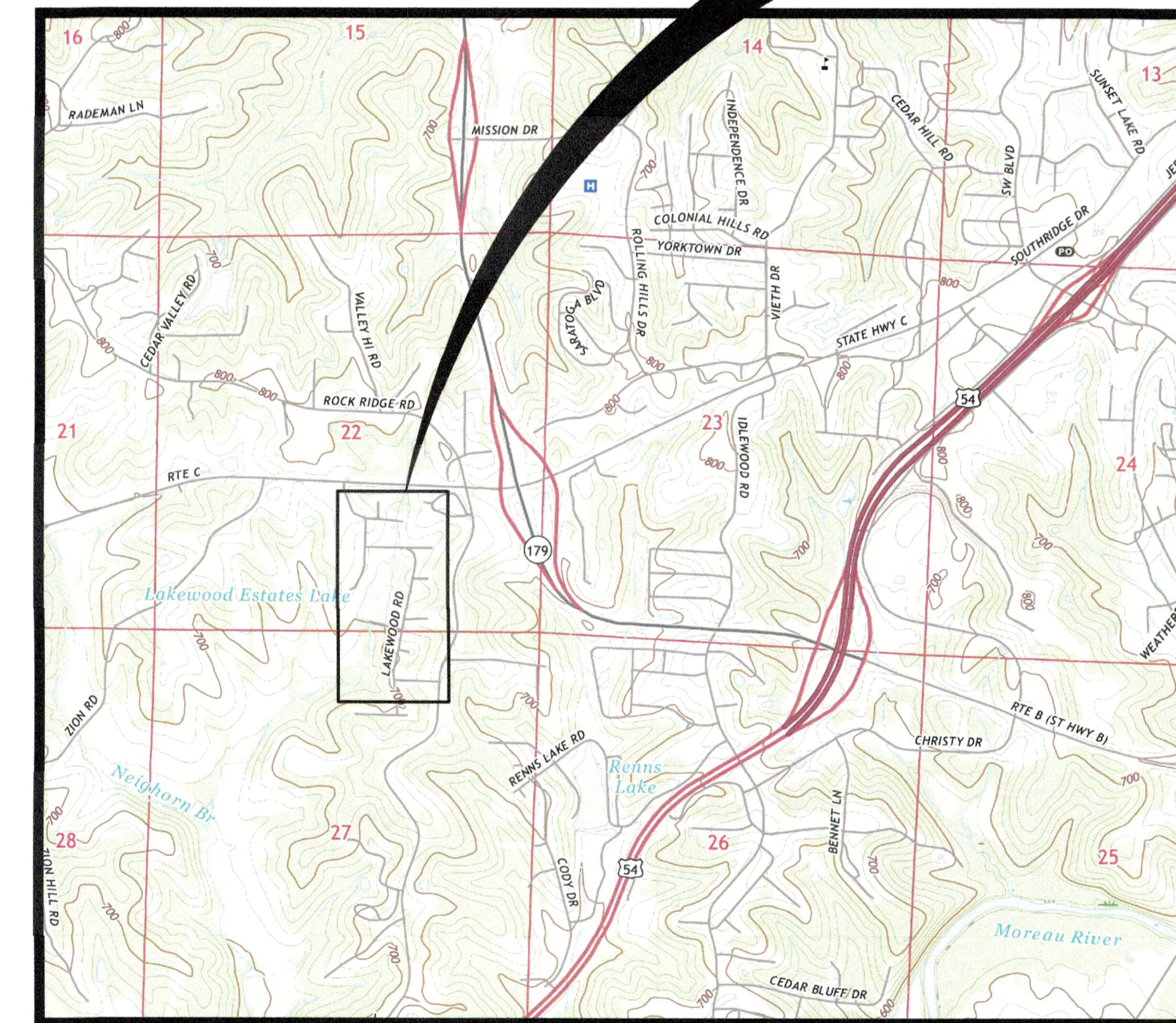


**STATE OF MISSOURI**  
N.T.S.



**COLE COUNTY**

Sheet List Table		
SHEET NUMBER	SHEET TITLE	REVISION
1	COVER SHEET	1
2	PROJECT OVERVIEW	1
3	CONSTRUCTION STAKING COORDINATE TABLE	1
4	SITE A EXISTING CONDITIONS	N/A
5	SITE A IMPROVEMENT	1
6	SITE B EXISTING CONDITIONS	N/A
7	SITE B IMPROVEMENT	1
8	SITE C EXISTING CONDITIONS	N/A
9	SITE C IMPROVEMENT	1
10	SITE D EXISTING CONDITIONS	N/A
11	SITE D IMPROVEMENT	1
12	SITE E EXISTING CONDITIONS	N/A
13	SITE E EXISTING CONDITIONS	N/A
14	SITE E IMPROVEMENT	1
15	SITE E IMPROVEMENT	1
16	SITE E PROFILES	1
17	SITE F EXISTING CONDITIONS	N/A
18	SITE F IMPROVEMENT	1
19	SITE G EXISTING CONDITIONS	N/A
20	SITE G IMPROVEMENT	1
21	SITE H EXISTING CONDITIONS	N/A
22	SITE H IMPROVEMENT	1
23	SITE I EXISTING CONDITIONS	N/A
24	SITE I IMPROVEMENT	1
25	CURB AND STREET DETAILS	N/A
26	INLET DETAILS	N/A
27	MISCELLANEOUS DETAILS	N/A



**SITE LOCATION MAP**  
N.T.S.

**NOTE:**  
MAP SOURCE IS USGS JEFFERSON CITY QUADRANGLE, 7.5-MINUTE SERIES.

**NOTES TO THE CONTRACTOR:**  
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.  
  
THE CONTRACTOR SHALL MAKE SUITABLE AND TIMELY REQUESTS TO ALL UTILITY OWNERS, PIPELINE OWNERS, OR OTHER PARTIES AFFECTED TO MAKE ALL NECESSARY ADJUSTMENTS OF PUBLIC OR PRIVATE UTILITIES, PIPE LINES, OR OTHER APPURTENANCES WITHIN, OR ADJACENT TO THE LIMITS OF CONSTRUCTION, AS SOON AS PRACTICAL OR POSSIBLE.

MISSOURI ONE CALL SYSTEM (811)

#	DATE	REVISION DESCRIPTION	BY
1	12/13/2024	REVISE CONSTRUCTION STAKING POINTS	BD



**SHEET 1**  
**COVER SHEET**  
**STORMWATER IMPROVEMENT**

SHEET #  
1 OF 27

**COUNTY OF COLE**  
**LAKEWOOD SUBDIVISION**  
**STORMWATER IMPROVEMENT**  
**PROJECT NO. 2023-201-1**

SCALE  
N.T.S.

DATE  
12/2024

APPROVED  
BD

CHECKED  
JB

DRAWN  
CM

DESIGNED  
JB

SURVEYED  
N/A

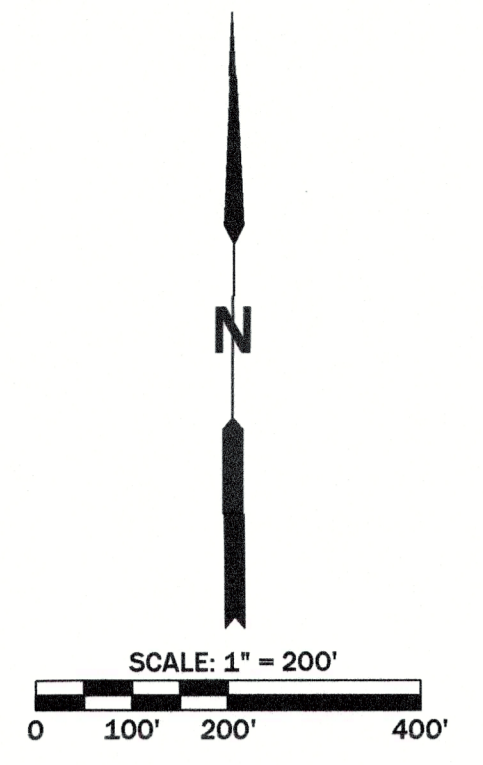
**GREDELL**  
**ENGINEERING RESOURCES**

CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
MO CORP. ENGINEERING LICENSE NO. E-2003,001668-D

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADD\Files\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site\Plan-10.dwg



LEGEND:  
 SITE LOCATIONS  
 SURVEY CONTROL POINTS

- GENERAL NOTES**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CITY OF JEFFERSON STANDARD PLANS.
  2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NEW AND EXISTING STRUCTURES AND IMPROVEMENTS. ANY DAMAGE TO EXISTING OR PROPOSED FACILITIES, STRUCTURES OR UTILITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY MISSOURI 811 FOR LOCATION OF THE UTILITIES AT LEAST 5 DAYS PRIOR TO CONSTRUCTION.
  3. TREES AND LANDSCAPE FEATURES OUTSIDE OF CUT AND FILL AREAS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE COUNTY ENGINEER. FILL MAY NOT BE PLACED AROUND EXISTING TREES OR LANDSCAPE FEATURES.
  4. DAMAGE TO PROPERTY OUTSIDE OF CONSTRUCTION TEMPORARY EASEMENT AND RIGHT OF WAY SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE. ANY DAMAGES SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY ENGINEER.
  5. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING OR TRAFFIC CONES SURROUNDING AREAS OF DEMOLITION AND OPEN EXCAVATION IN ROADWAYS. THE CONTRACTOR SHALL LEAVE WORK AREAS IN SAFE CONDITION AT THE END OF EACH WORK DAY.
  6. SAFE ACCESS TO ALL RESIDENCES SHALL BE MAINTAINED DURING CONSTRUCTION BY METHODS APPROVED BY THE COUNTY ENGINEER.
  7. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE BEGINNING OF WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SUBJECT TO CHANGE AT THE DIRECTION OF THE COUNTY ENGINEER.
  8. CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THESE NOTES AND CONSTRUCTION DRAWINGS. ALL DATA PRESENTED ON THE CONSTRUCTION DRAWINGS IS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING THE WORK.
  9. THE COUNTY ENGINEER SHALL BE NOTIFIED OF ALL PROPOSED CHANGES TO THE LINES, GRADES, AND ELEVATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK.
  10. CONCRETE REMOVAL SHALL BE MADE TO SAWCUTS OR EXISTING JOINTS IN PAVEMENT AND DRIVEWAYS. DEPTH OF SAWCUTS SHALL BE TO FULL PAVEMENT THICKNESS. NEW CONCRETE SHALL MATCH THE EXISTING CONCRETE.
  11. FILL UNDER PAVEMENTS SHALL BE COMPACTED IN ACCORDANCE WITH THE CITY OF JEFFERSON STANDARD DRAWINGS.
  12. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND FOLLOW APPROPRIATE TRAFFIC CONTROL REQUIREMENTS, AND APPLICABLE SAFETY CODES AND REGULATIONS DURING CONSTRUCTION.

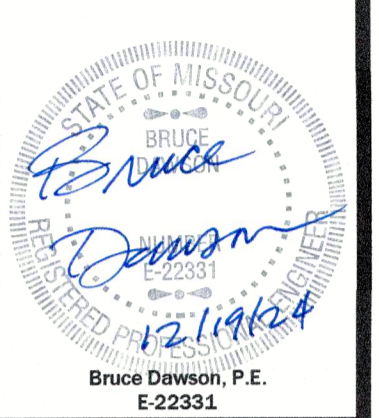
- CONSTRUCTION DRAWINGS AND NOTES**
1. CONSTRUCTION SHALL BE CARRIED OUT TO LINES, GRADES, AND DIMENSIONS SHOWN ON THESE CONSTRUCTION DRAWINGS OR AS APPROVED BY THE COUNTY ENGINEER. IN THE CASE OF INCONSISTENCY WITHIN THESE NOTES AND CONSTRUCTION DRAWINGS, THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COUNTY ENGINEER'S INTERPRETATION. THE CONTRACTOR SHALL CONSULT THE COUNTY ENGINEER REGARDING DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS.
  2. CONSTRUCTION SHALL NOT PROCEED UNTIL DISCREPANCIES HAVE BEEN RESOLVED.

- EROSION AND SEDIMENT CONTROL**
1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE COLE COUNTY PUBLIC WORKS (CCPW) SPECIFICATIONS.

- CONSTRUCTION REQUIREMENTS AND QUALITY ASSURANCE**
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE EXCAVATION AND CONSTRUCTION ACTIVITIES SO AS TO MINIMIZE ADVERSE WEATHER IMPACTS ON CONSTRUCTION PROGRESS.

- STORMWATER POLLUTION PREVENTION PLAN (SWPPP)**
1. CONTRACTOR SHALL PROVIDE A PLAN TO THE COUNTY ENGINEER FOR REVIEW AND ACCEPTANCE DESCRIBING THE INSTALLATION AND MAINTENANCE PROCEDURES FOR EROSION CONTROL STRUCTURES TO BE USED ON SITE. THE PLAN MUST BE IN ACCORDANCE WITH THE EXISTING SWPPP MAINTAINED AS PART OF THE STANDING LAND DISTURBANCE PERMIT MAINTAINED BY CCPW.
  2. CONTRACTOR IS RESPONSIBLE FOR CLEANUP AND REMEDIATION OF SPILLS OF HAZARDOUS SUBSTANCES, FUELS, AND LUBRICANTS.
  3. REMOVE EROSION AND SEDIMENT CONTROL DEVICES UPON CONSTRUCTION COMPLETION UNLESS OTHERWISE DIRECTED. GRADE DISTURBED AREAS TO MATCH THE SURROUNDING TOPOGRAPHY AND PROMOTE DRAINAGE WITHOUT PONDING.

BY	REVISION DESCRIPTION	DATE
BD	REVISE CONSTRUCTION STAKING POINTS	12/13/2024
1		



**COUNTY OF COLE**  
**LAKEWOOD SUBDIVISION**  
**STORMWATER IMPROVEMENT**  
**PROJECT NO. 2023-201-1**

**SHEET 2**  
**PROJECT OVERVIEW**

FILE NAME: Site-Plan-10  
 PROJECT NAME: LAKEWOOD RD  
 SHEET # 2 OF 27

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SCALE
BY/VA	JB	CM	JB	BD	11/2024	1" = 200'

**GREDELL**  
**ENGINEERING RESOURCES**  
 CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
 1505 East High Street  
 Jefferson City, Missouri  
 Telephone: (573) 659-9078  
 Facsimile: (573) 659-9079  
 MO CORP. ENGINEERING LICENSE NO. E-200101888D

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE A points 101-162.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE B points 201-251.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE C points 300-445.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE D points 500-530 and SITE E points 600-651.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE F points 700-784.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE G points 801-880.

Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SITE H points 901-980.

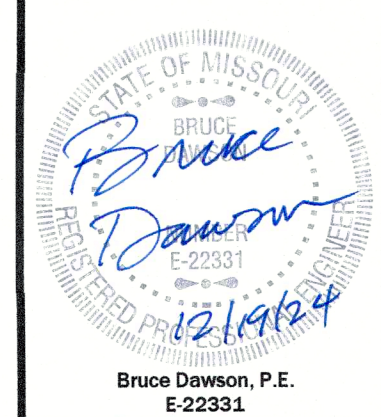
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Table with 5 columns: POINT #, NORTHING, EASTING, ELEV., DESCRIPTION. Contains data for SURVEY CONTROL POINTS 9998-10017.

- NOTES:
1. SURVEY HORIZONTAL DATUM IS NAD83 CENTRAL ZONE, US SURVEY FOOT.
2. SURVEY VERTICAL DATUM IS NAVD 88.
3. CONTROL POINTS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES (CMPS) ON 12/18/24.

ABBREVIATIONS:
BC = BACK OF CURB
CL = CENTERLINE
BC 20' R = RADIUS POINT
CONC APRON = CONCRETE DRIVEWAY APRON

Table with 2 columns: #, DATE. Contains revision information for 12/13/2024.



PROJECT NAME: LAKEWOOD RD
SHEET # 3 OF 27
FILE NAME: SitePlan-24

SHEET 3
CONSTRUCTION STAKING
COORDINATE TABLE

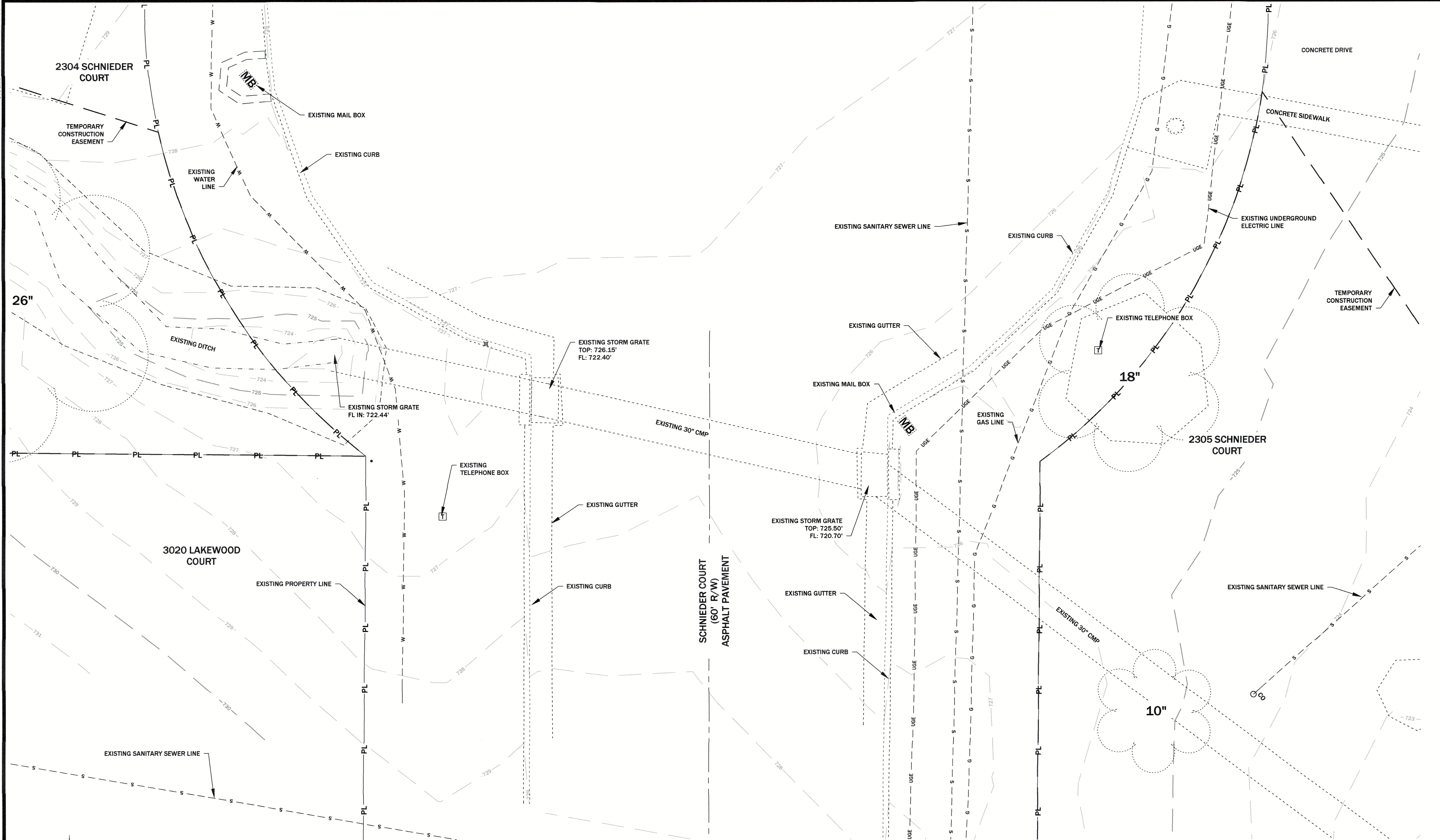
COUNTY OF COLE
LAKEWOOD SUBDIVISION
STORMWATER IMPROVEMENT
PROJECT NO. 2023-201-1

GREDELL ENGINEERING RESOURCES
CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES
1505 East High Street
Jefferson City, Missouri
Telephone: (573) 659-9078
Facsimile: (573) 659-9079
MO CORP. ENGINEERING LICENSE NO. E-20001001669-D

ORIGINAL SHEET SIZE: 24" x 36"

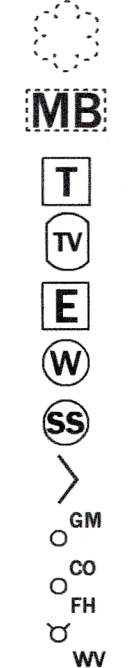
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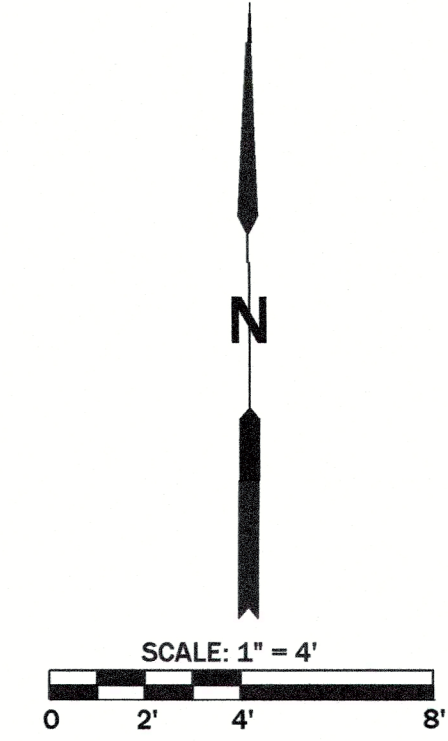


**LEGEND:**

- |                                 |       |                                 |    |
|---------------------------------|-------|---------------------------------|----|
| EXISTING MAJOR 5FT CONTOUR      | ---   | EXISTING TREE                   | ○  |
| EXISTING MINOR 1FT CONTOUR      | ----  | EXISTING MAIL BOX               | MB |
| EXISTING STRUCTURES             | ---   | EXISTING TELEPHONE BOX          | T  |
| SANITARY SEWER LINE             | -S-   | EXISTING TV BOX                 | TV |
| UNDERGROUND ELECTRIC LINE       | -UGE- | EXISTING ELECTRIC BOX           | E  |
| WATER LINE                      | -W-   | EXISTING WATER METER            | W  |
| GAS LINE                        | -G-   | EXISTING SANITARY SEWER MANHOLE | SS |
| PROPERTY LINE                   | PL    | FLOW DIRECTION                  | →  |
| ROADWAY CENTERLINE              | ---   | GAS MAIN                        | G  |
| EDGE OF WATER                   | ~     | CLEANOUT                        | CO |
| EDGE OF BRUSH                   | ~     | FIRE HYDRANT                    | FD |
| TEMPORARY CONSTRUCTION EASEMENT | ---   | WATER VALVE                     | WV |



**NOTES:**  
 1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.  
 2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.

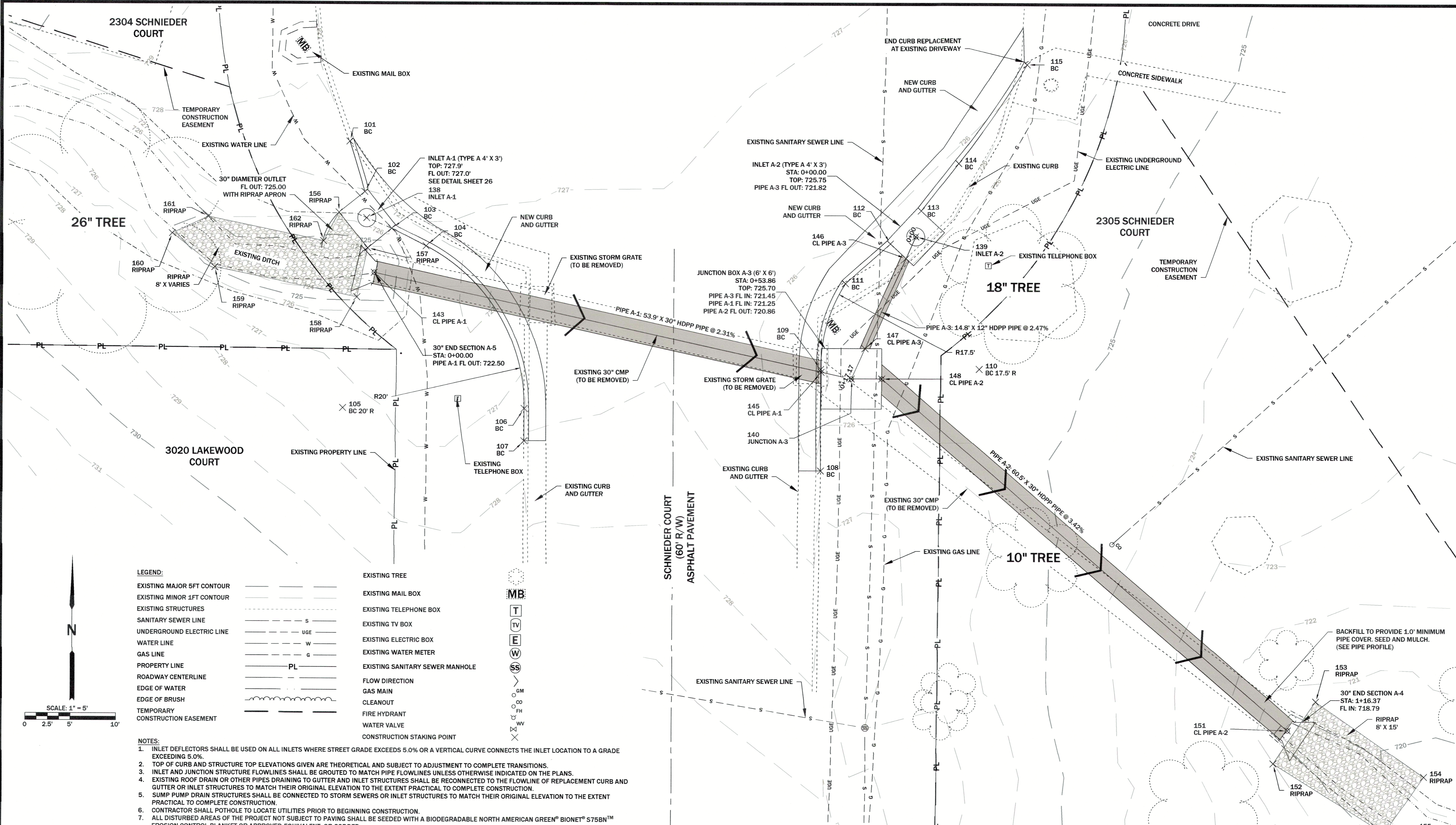


<p>Bruce Dawson, P.E. E-22331</p>	BY	
	REVISION DESCRIPTION	
#	DATE	
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		
<b>SHEET 4</b> <b>SITE A EXISTING CONDITIONS</b>		
PROJECT NAME	LAKEWOOD DR	SHEET #
FILE NAME	Site-Plan-02	4 OF 27
SCALE	1" = 4'	
DATE	11/20/24	
APPROVED	BD	
CHECKED	JB	
DRAWN	JB	
DESIGNED	JB	
SURVEYED	N/A	
<p><b>GREDELL</b>  <b>ENGINEERING RESOURCES</b>      CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES      Telephone: (573) 659-9078      Facsimile: (573) 659-9079      1505 East High Street      Jefferson City, Missouri      MO CORP. ENGINEERING LICENSE NO. E-200101669-D</p>		

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR Drawings\Site-Plan-11.dwg



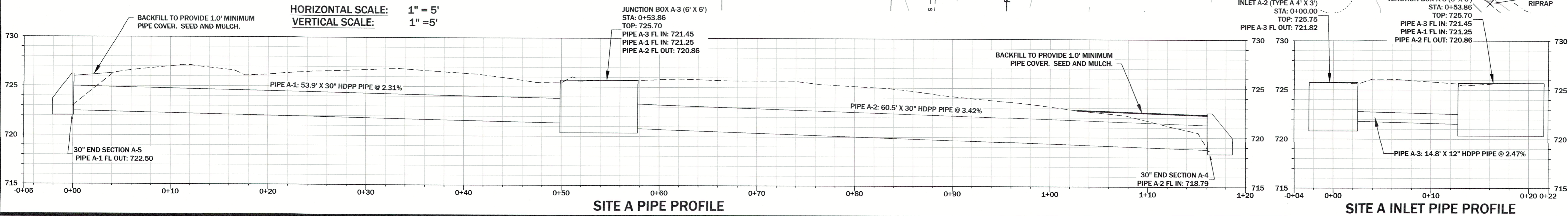
LEGEND:

- |                                 |     |                                 |    |
|---------------------------------|-----|---------------------------------|----|
| EXISTING MAJOR 5FT CONTOUR      | --- | EXISTING TREE                   | ○  |
| EXISTING MINOR 1FT CONTOUR      | --- | EXISTING MAIL BOX               | MB |
| EXISTING STRUCTURES             | --- | EXISTING TELEPHONE BOX          | T  |
| SANITARY SEWER LINE             | S   | EXISTING TV BOX                 | TV |
| UNDERGROUND ELECTRIC LINE       | UGE | EXISTING ELECTRIC BOX           | E  |
| WATER LINE                      | W   | EXISTING WATER METER            | W  |
| GAS LINE                        | G   | EXISTING SANITARY SEWER MANHOLE | SS |
| PROPERTY LINE                   | PL  | FLOW DIRECTION                  | →  |
| ROADWAY CENTERLINE              | --- | GAS MAIN                        | GM |
| EDGE OF WATER                   | --- | CLEANOUT                        | CO |
| EDGE OF BRUSH                   | --- | FIRE HYDRANT                    | FH |
| TEMPORARY CONSTRUCTION EASEMENT | --- | WATER VALVE                     | WV |
|                                 |     | CONSTRUCTION STAKING POINT      | X  |

NOTES:

- INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
- TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
- INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUDED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
- EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
- SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
- CONTRACTOR SHALL POthOLE TO LOCATE UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.

HORIZONTAL SCALE: 1" = 5'  
 VERTICAL SCALE: 1" = 5'



BY	REVISION DESCRIPTION
BD	REVISE CONSTRUCTION STAKING POINTS

#	DATE
1	12/13/2024

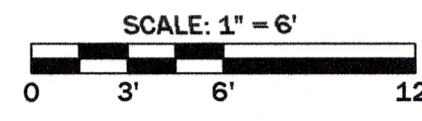
STATE OF MISSOURI  
 BRUCE DAWSON  
 12/19/24  
 Bruce Dawson, P.E.  
 E-22331

SHEET # 5 OF 27  
 FILE NAME Site-Plan-11  
 PROJECT NAME LAKEWOOD RD

COUNTY OF COLE  
 LAKEWOOD SUBDIVISION  
 STORMWATER IMPROVEMENT  
 PROJECT NO. 2023-201-1

SCALE 1" = 5'  
 DATE 12/2024  
 APPROVED  
 DRAWN  
 CHECKED  
 DESIGNED

**GREDELL**  
 ENGINEERING RESOURCES  
 CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES  
 Telephone: (573) 659-9078  
 Facsimile: (573) 659-9079  
 1505 East High Street  
 Jefferson City, Missouri  
 MO CORP. ENGINEERING LICENSE NO. E-2001001669-D



LEGEND:

- EXISTING MAJOR SFT CONTOUR
- EXISTING MINOR 1FT CONTOUR
- EXISTING STRUCTURES
- SANITARY SEWER LINE
- UNDERGROUND ELECTRIC LINE
- WATER LINE
- GAS LINE
- PROPERTY LINE
- ROADWAY CENTERLINE
- EDGE OF WATER
- EDGE OF BRUSH
- TEMPORARY CONSTRUCTION EASEMENT
- EXISTING TREE
- EXISTING MAIL BOX
- EXISTING TELEPHONE BOX
- EXISTING TV BOX
- EXISTING ELECTRIC BOX
- EXISTING WATER METER
- EXISTING SANITARY SEWER MANHOLE
- FLOW DIRECTION
- GAS MAIN
- CLEANOUT
- FIRE HYDRANT
- WATER VALVE

- NOTES:
1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.
  2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.
  3. EXISTING IRRIGATION IS PRESENT AT 3009 LAKEWOOD COURT AND POTENTIALLY AT OTHER PROPERTIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS IF DISTURBED.

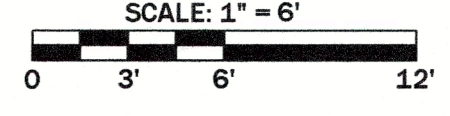


BY	REVISION DESCRIPTION	DATE	#	 Bruce Dawson, P.E. E-22351			
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>			<b>SHEET 6</b> <b>SITE B EXISTING CONDITIONS</b>		SHEET # <b>6</b> OF 27	FILE NAME Site-Plan-03	PROJECT NAME LAKEWOOD DR
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SCALE	
I/A	JB	CN	JB	BD	11/2024	1" = 6'	
 <b>GREDELL</b> <b>ENGINEERING RESOURCES</b> CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES Telephone: (573) 659-9078 Facsimile: (573) 659-9079 Jefferson City, Missouri MO CORP. ENGINEERING LICENSE NO. E-500101669D							

ORIGINAL SHEET SIZE: 24" X 36"

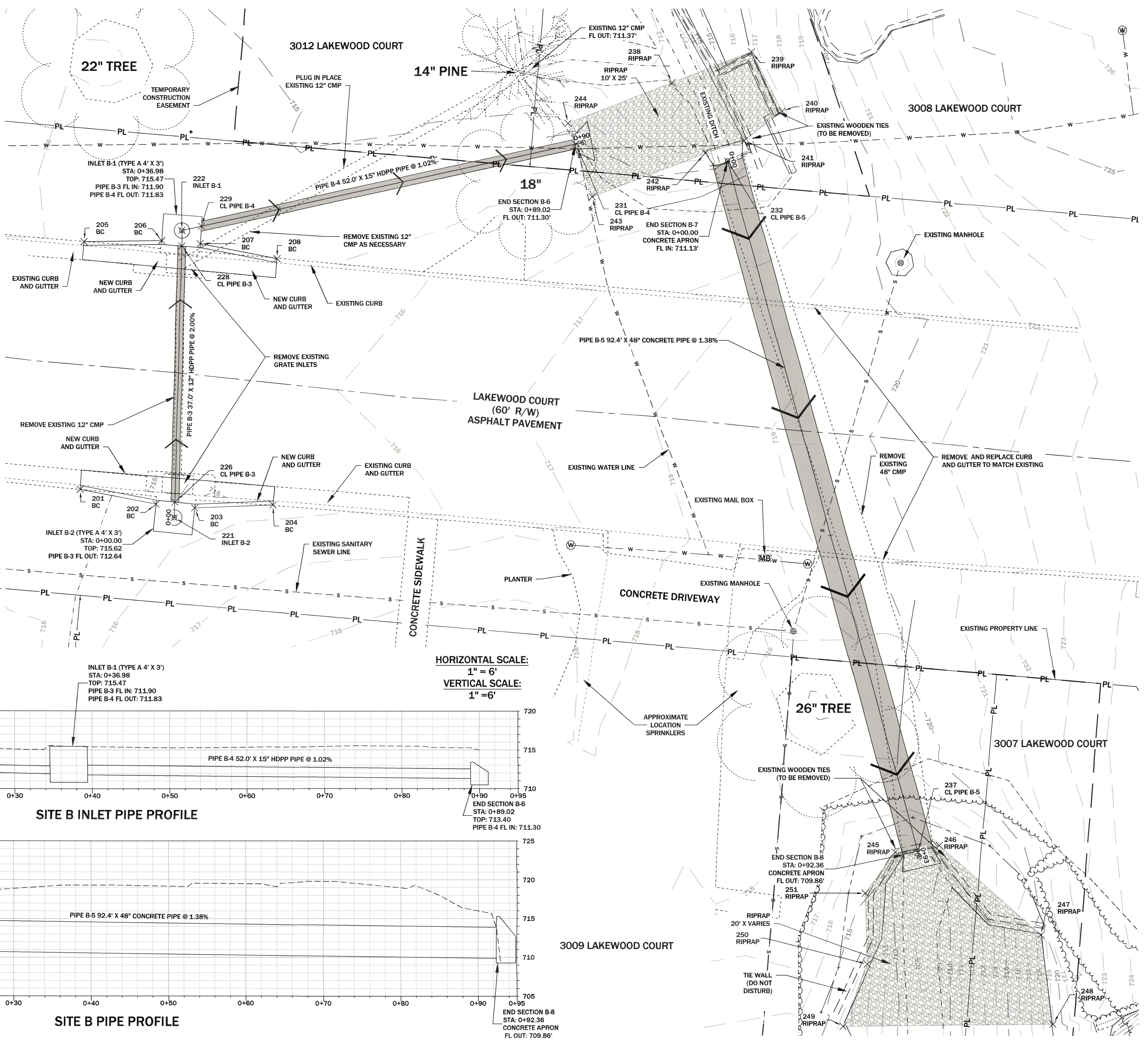
PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-12.dwg



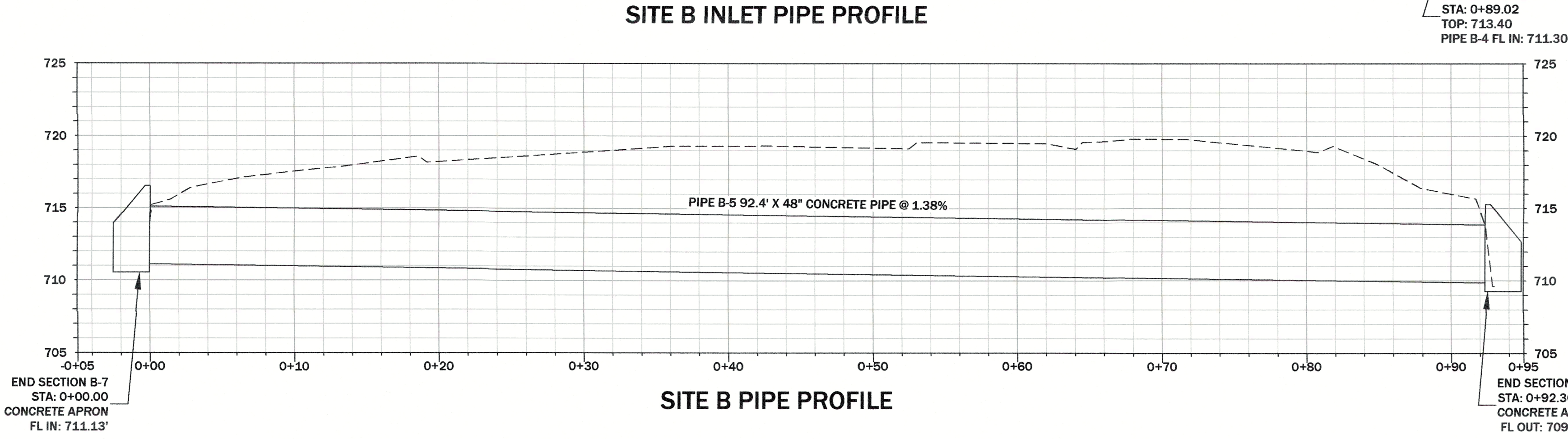
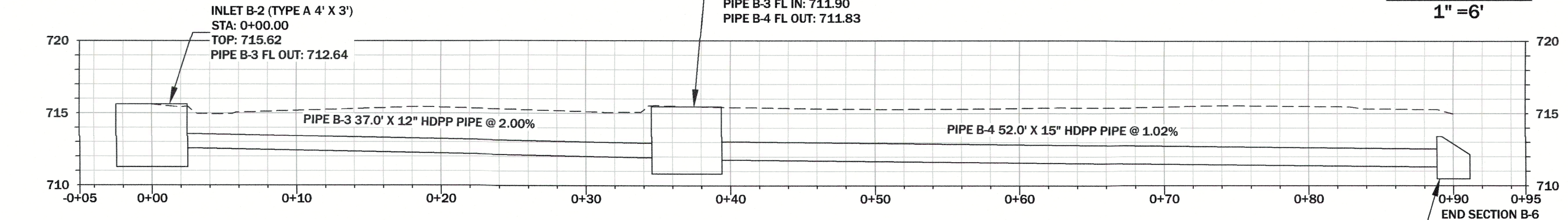
- LEGEND:**
- EXISTING MAJOR 5FT CONTOUR
  - EXISTING MINOR 1FT CONTOUR
  - EXISTING STRUCTURES
  - SANITARY SEWER LINE
  - UNDERGROUND ELECTRIC LINE
  - WATER LINE
  - GAS LINE
  - PROPERTY LINE
  - ROADWAY CENTERLINE
  - EDGE OF WATER
  - EDGE OF BRUSH
  - TEMPORARY CONSTRUCTION EASEMENT
  - EXISTING TREE
  - EXISTING MAIL BOX
  - EXISTING TELEPHONE BOX
  - EXISTING TV BOX
  - EXISTING ELECTRIC BOX
  - EXISTING WATER METER
  - EXISTING SANITARY SEWER MANHOLE
  - FLOW DIRECTION
  - GAS MAIN
  - CLEANOUT
  - FIRE HYDRANT
  - WATER VALVE
  - CONSTRUCTION STAKING POINT

- NOTES:**
1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
  2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
  3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
  4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  6. REGRADE CHANNEL FLOWLINE AS NEEDED TO FACILITATE RIPRAP PLACEMENT SURROUNDING UPSTREAM AND DOWNSTREAM FLARED END SECTIONS.
  7. EXISTING TIMBER LANDSCAPE STRUCTURE AND RETAINING WALLS TO BE REPLACED WITH RIPRAP AND APRON STRUCTURES AT INLET AND OUTLET OF CULVERT B-3.
  8. EXISTING IRRIGATION IS PRESENT AT 3009 LAKEWOOD COURT AND POTENTIALLY AT OTHER PROPERTIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS IF DISTURBED.
  9. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.



**HORIZONTAL SCALE:**  
1" = 6'

**VERTICAL SCALE:**  
1" = 6'



BY	REVISION DESCRIPTION	
	REVISE CONSTRUCTION STAKING POINTS	
DATE	12/13/2024	
#	1	

STATE OF MISSISSIPPI  
Professional Engineer  
Bruce Dawson, P.E.  
E-22331  
12/19/24

**SHEET 7**  
SITE B IMPROVEMENT

COUNTY OF COLE  
LAKEWOOD SUBDIVISION  
STORMWATER IMPROVEMENT  
PROJECT NO. 2023-201-1

SCALE: 1" = 6'

DATE: 12/2/2024

CHECKED: J.B. / J.S.  
DRAWN: C.M.  
DESIGNED: J.B. / N/A

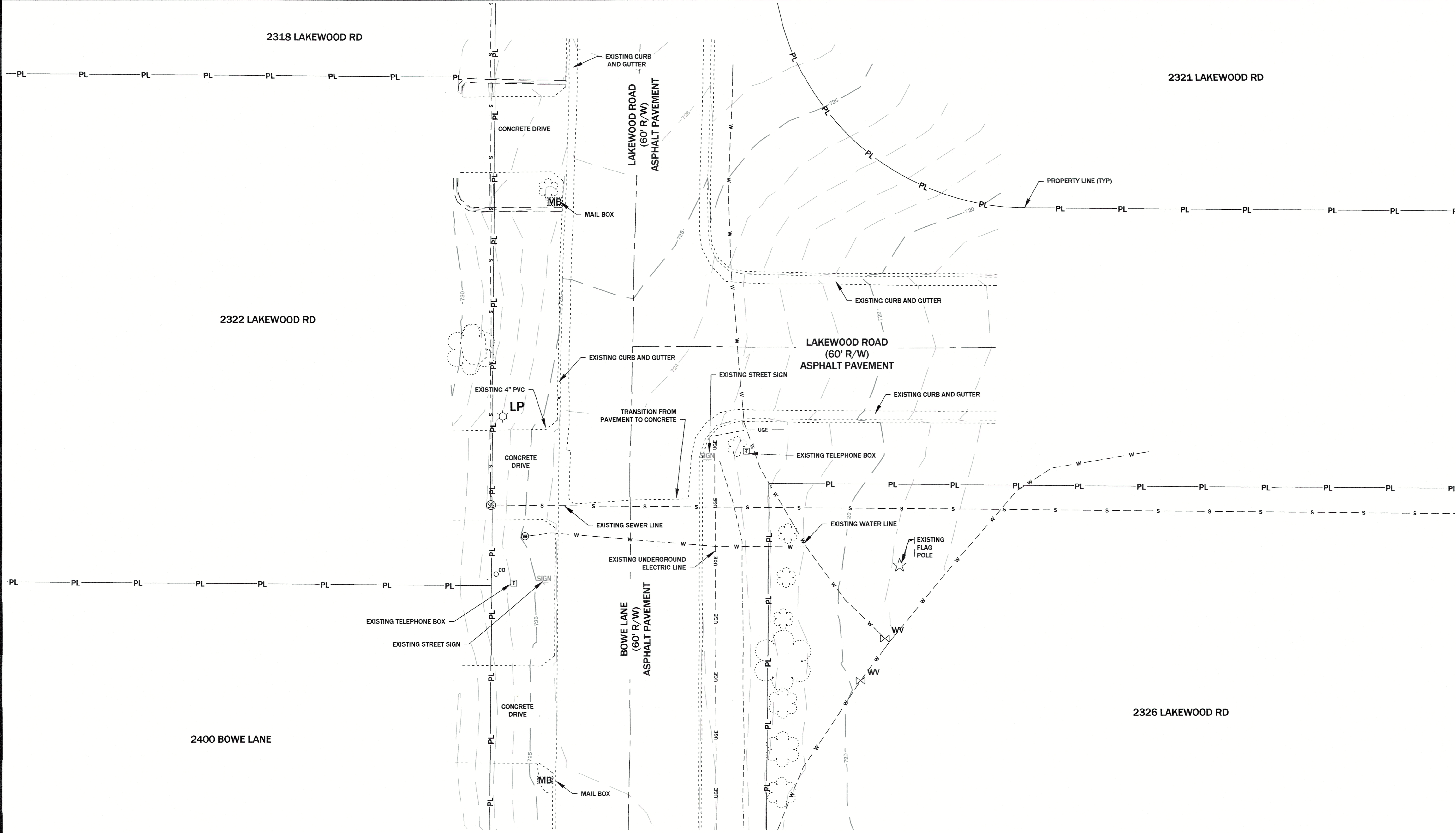
PROJECT NAME: LAKEWOOD RD  
FILE NAME: Site-Plan-12  
SHEET # 7 OF 27

**GREDELL**  
ENGINEERING RESOURCES  
CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
M.O. CORP. ENGINEERING LICENSE NO. E-600300166650

ORIGINAL SHEET SIZE: 24" x 36"

PRINTED ON: 11/22/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-04.dwg

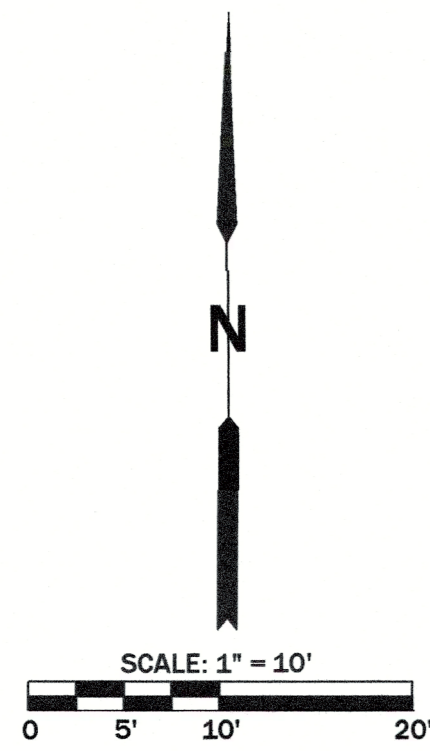


LEGEND:

- |                                 |               |                                 |               |
|---------------------------------|---------------|---------------------------------|---------------|
| EXISTING MAJOR 5FT CONTOUR      | ---           | EXISTING TREE                   | (Tree symbol) |
| EXISTING MINOR 1FT CONTOUR      | ----          | EXISTING MAIL BOX               | MB            |
| EXISTING STRUCTURES             | - - - - -     | EXISTING TELEPHONE BOX          | T             |
| SANITARY SEWER LINE             | - - - - - S   | EXISTING TV BOX                 | TV            |
| UNDERGROUND ELECTRIC LINE       | - - - - - UGE | EXISTING ELECTRIC BOX           | E             |
| WATER LINE                      | - - - - - W   | EXISTING WATER METER            | W             |
| GAS LINE                        | - - - - - G   | EXISTING SANITARY SEWER MANHOLE | SS            |
| PROPERTY LINE                   | — PL —        | FLOW DIRECTION                  | →             |
| ROADWAY CENTERLINE              | — PL —        | GAS MAIN                        | GM            |
| EDGE OF WATER                   | ~~~~~         | CLEANOUT                        | CO            |
| EDGE OF BRUSH                   | ~~~~~         | FIRE HYDRANT                    | FW            |
| TEMPORARY CONSTRUCTION EASEMENT | — PL —        | WATER VALVE                     | WV            |



- NOTES:
- SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.
  - EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.



BY	REVISION DESCRIPTION	DATE	#

STATE OF MISSOURI  
 Bruce Dawson, P.E.  
 E22334  
 11/22/24

PROJECT NAME: LAKEWOOD DR  
 FILE NAME: Site-Plan-04  
 SHEET # 8 OF 27

**SHEET 8**  
**SITE C EXISTING CONDITIONS**

COUNTY OF COLE  
 LAKEWOOD SUBDIVISION  
 STORMWATER IMPROVEMENT  
 PROJECT NO. 2023-201-1

SCALE: 1" = 10'

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
N/A	JB	CM	JB	BD	11/20/24

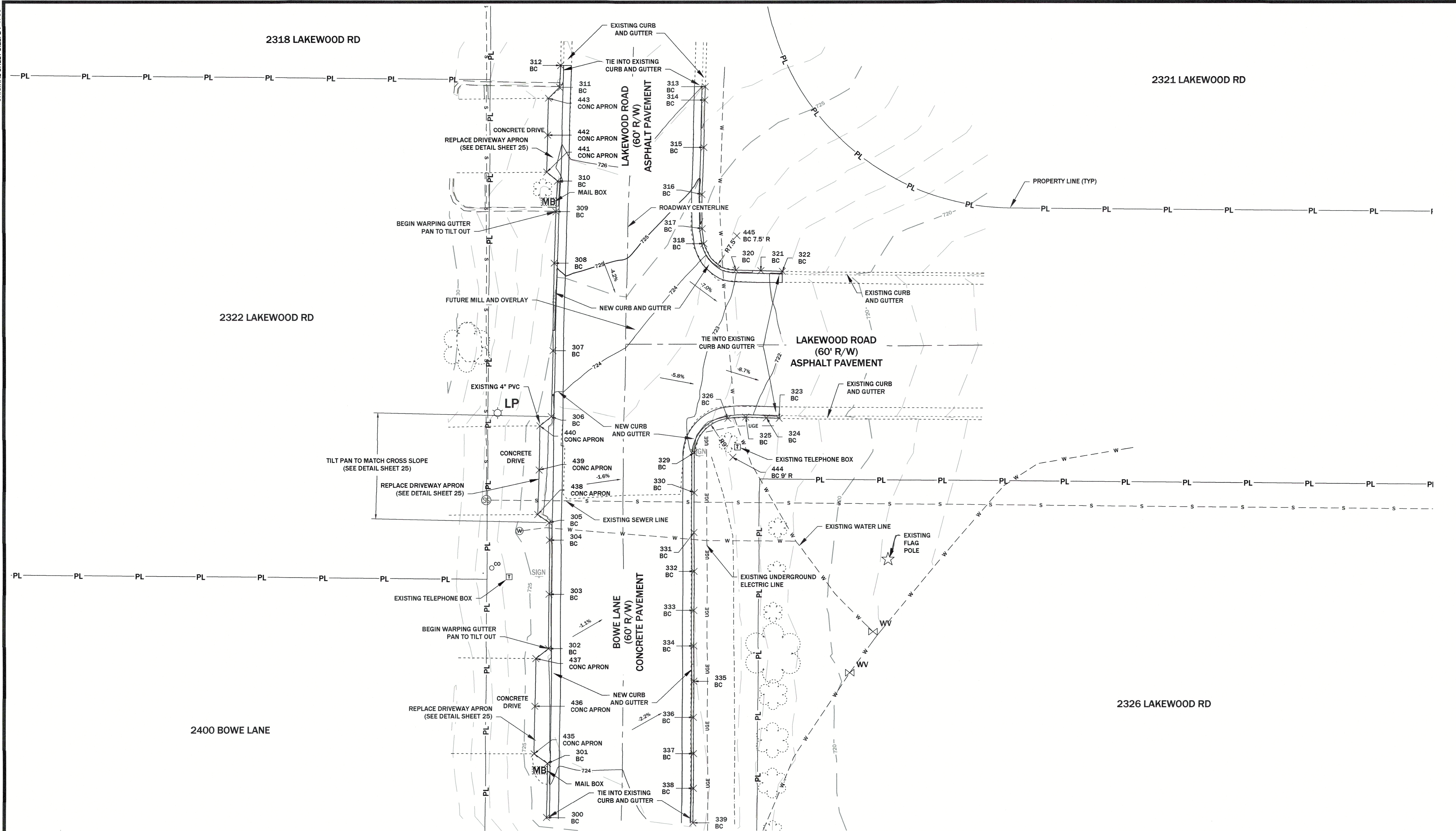
**GREDELL**  
 ENGINEERING RESOURCES

CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
 1505 East High Street  
 Jefferson City, Missouri  
 MO CORP. ENGINEERING LICENSE NO. E-2001001669-D  
 Telephone: (573) 659-9078  
 Facsimile: (573) 659-9079

ORIGINAL SHEET SIZE: 24" X 36"

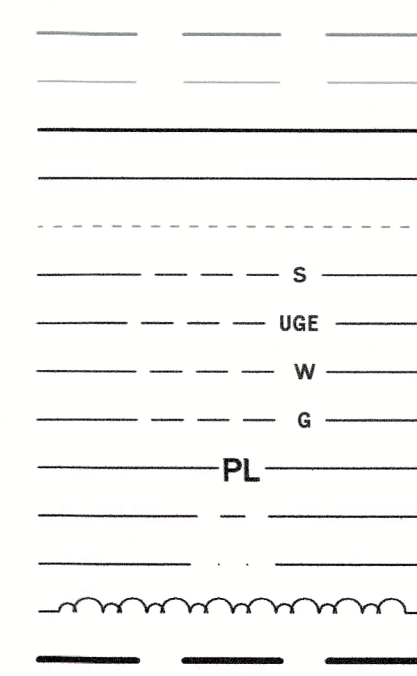
PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-13.dwg



LEGEND:

- EXISTING MAJOR 5 FT CONTOUR
- EXISTING MINOR 1 FT CONTOUR
- PROPOSED MAJOR 5 FT CONTOUR
- PROPOSED MINOR 1 FT CONTOUR
- EXISTING STRUCTURES
- SANITARY SEWER LINE
- UNDERGROUND ELECTRIC LINE
- WATER LINE
- GAS LINE
- PROPERTY LINE
- ROADWAY CENTERLINE
- GAS MAIN
- EDGE OF WATER
- EDGE OF BRUSH
- TEMPORARY CONSTRUCTION EASEMENT

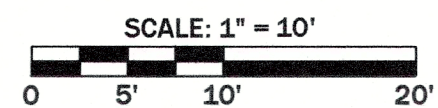


- EXISTING TREE
- EXISTING MAIL BOX
- EXISTING TELEPHONE BOX
- EXISTING TV BOX
- EXISTING ELECTRIC BOX
- EXISTING WATER METER
- EXISTING SANITARY SEWER MANHOLE
- FLOW DIRECTION
- GAS MAIN
- CLEANOUT
- FIRE HYDRANT
- WATER VALVE
- CONSTRUCTION STAKING POINT

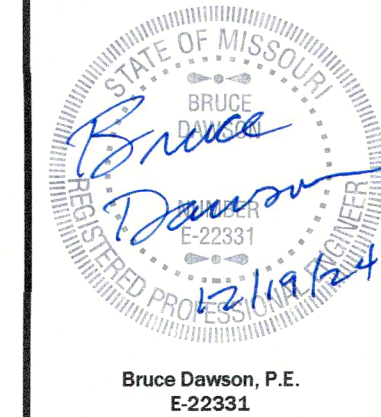


NOTES:

1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
6. FUTURE OVERLAY SHALL NOT MODIFY OR INCREASE THE CROWN OF THE ROADWAY PROPOSED IN THIS DESIGN WITHOUT APPROVAL OF THE COUNTY ENGINEER.
7. CONTRACTOR TO JOINT SEAL EXISTING AND NEW JOINTS IN THE AREAS OF CONCRETE PAVEMENT INCLUDING LAKEWOOD ROAD AND BOWE LANE.
8. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET™ S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED



#	DATE	REVISION DESCRIPTION	BY
1	12/13/2024	REUSE CONSTRUCTION STAKING POINTS	BD

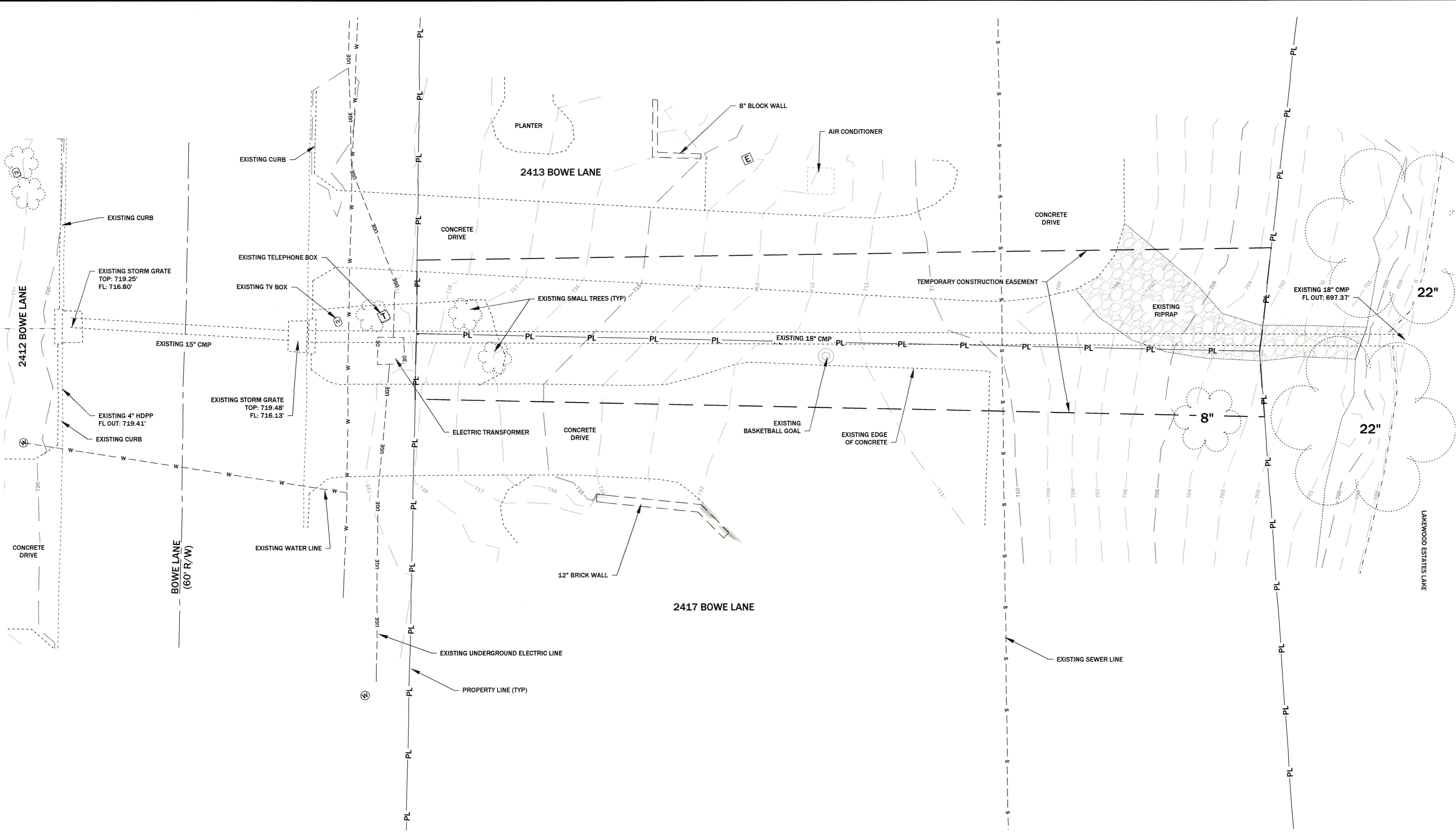


COUNTY OF COLE LAKEWOOD SUBDIVISION STORMWATER IMPROVEMENT PROJECT NO. 2023-201-1	SHEET # 9 OF 27
PROJECT NAME LAKEWOOD RD	FILE NAME Site-Plan-13

SCALE 1" = 10'	DATE 12/2024
DRAWN CM	CHECKED JB
DESIGNED JB	APPROVED BD
SURVEYED N/A	DATE 12/2024

**GREDELL**  
ENGINEERING RESOURCES

CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
MO. CORP. ENGINEERING LICENSE NO. E-000001689-D



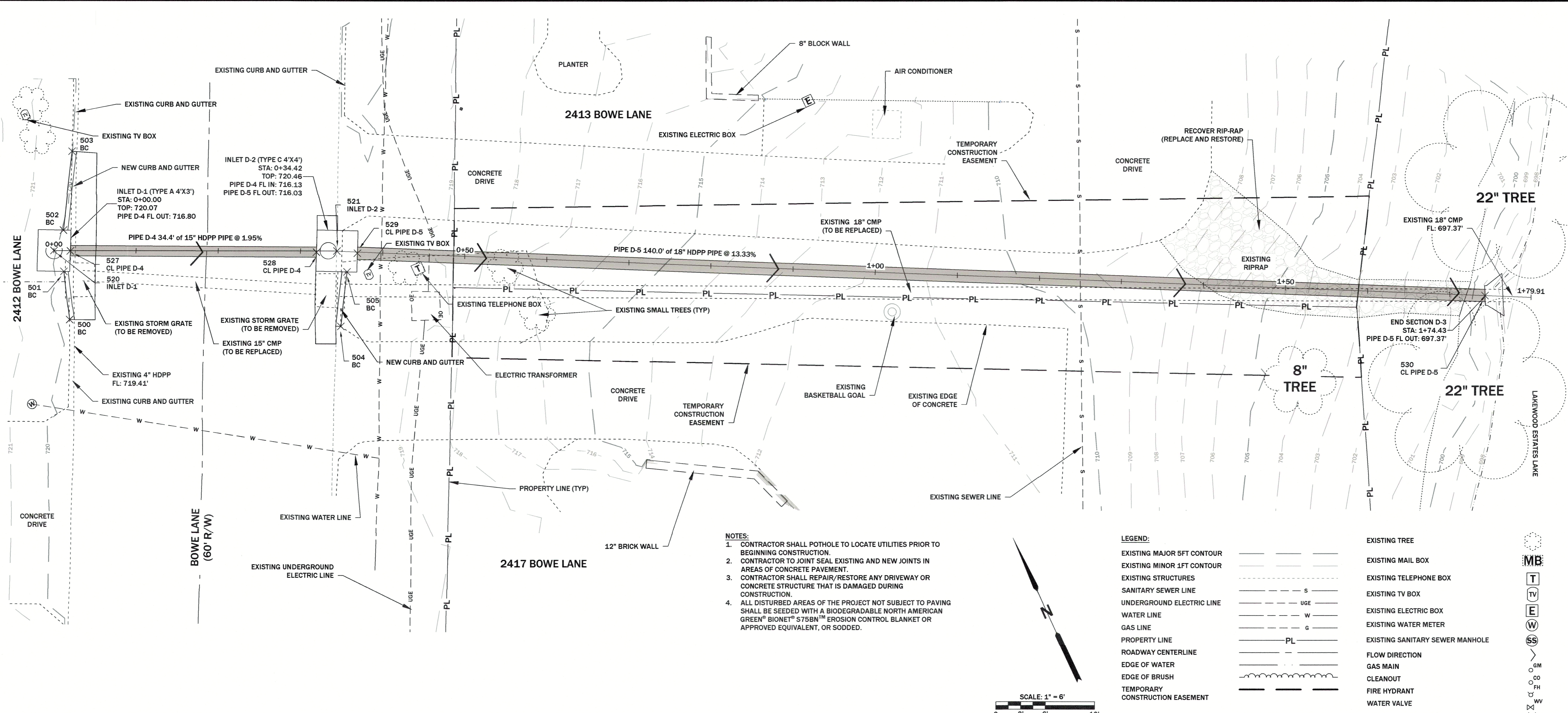
LEGEND:

- |                                 |               |                                 |                |
|---------------------------------|---------------|---------------------------------|----------------|
| EXISTING MAJOR 5FT CONTOUR      | ---           | EXISTING TREE                   | (Tree symbol)  |
| EXISTING MINOR 1FT CONTOUR      | ----          | EXISTING MAIL BOX               | (MB symbol)    |
| EXISTING STRUCTURES             | (Solid line)  | EXISTING TELEPHONE BOX          | (T symbol)     |
| SANITARY SEWER LINE             | ---           | EXISTING TV BOX                 | (TV symbol)    |
| UNDERGROUND ELECTRIC LINE       | UGE           | EXISTING ELECTRIC BOX           | (E symbol)     |
| WATER LINE                      | W             | EXISTING WATER METER            | (W symbol)     |
| GAS LINE                        | G             | EXISTING SANITARY SEWER MANHOLE | (S symbol)     |
| PROPERTY LINE                   | PL            | FLOW DIRECTION                  | (Arrow symbol) |
| ROADWAY CENTERLINE              | ---           | GAS MAIN                        | (G symbol)     |
| EDGE OF WATER                   | (Wavy line)   | CLEANOUT                        | (C symbol)     |
| EDGE OF BRUSH                   | (Dashed line) | FIRE HYDRANT                    | (FH symbol)    |
| TEMPORARY CONSTRUCTION EASEMENT | (Dashed line) | WATER VALVE                     | (V symbol)     |

- NOTES:
1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.
  2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.



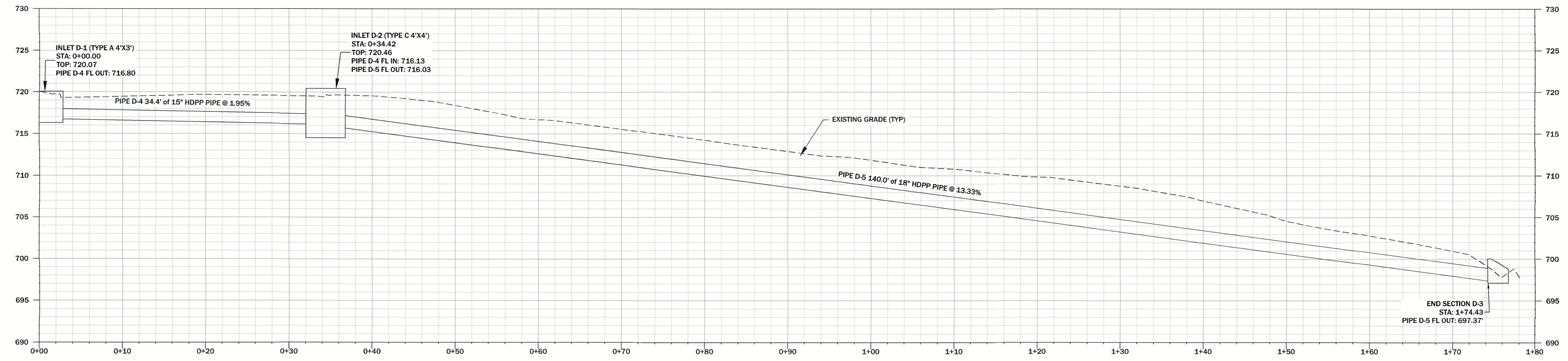
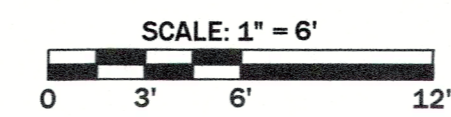
COUNTY OF COLE LAKEWOOD SUBDIVISION STORMWATER IMPROVEMENT PROJECT NO. 2023-201-1	SHEET 10 SITE D EXISTING CONDITIONS	PROJECT NAME LAKEWOOD DR	FILE NAME SitePlan-05	SHEET # 10 OF 27	BY
					REVISION DESCRIPTION
<b>GREDELL</b> ENGINEERING RESOURCES CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES Telephone: (573) 659-9078 Facsimile: (573) 659-9079 1505 East High Street Jefferson City, Missouri MO CORP. ENGINEERING LICENSE NO. E-2001001669-D	Bruce Dawson, P.E. E-22531 11/20/24	DATE	11/22/24		
		#			



- NOTES:**
1. CONTRACTOR SHALL POTHOLE TO LOCATE UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
  2. CONTRACTOR TO JOINT SEAL EXISTING AND NEW JOINTS IN AREAS OF CONCRETE PAVEMENT.
  3. CONTRACTOR SHALL REPAIR/RESTORE ANY DRIVEWAY OR CONCRETE STRUCTURE THAT IS DAMAGED DURING CONSTRUCTION.
  4. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.

**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	○
EXISTING MINOR 1FT CONTOUR	---	EXISTING MAIL BOX	□
EXISTING STRUCTURES	---	EXISTING TELEPHONE BOX	□
SANITARY SEWER LINE	S	EXISTING TV BOX	□
UNDERGROUND ELECTRIC LINE	UGE	EXISTING ELECTRIC BOX	□
WATER LINE	W	EXISTING WATER METER	□
GAS LINE	G	EXISTING SANITARY SEWER MANHOLE	○
PROPERTY LINE	PL	FLOW DIRECTION	→
ROADWAY CENTERLINE	---	GAS MAIN	---
EDGE OF WATER	---	CLEANOUT	---
EDGE OF BRUSH	---	FIRE HYDRANT	○
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	○
		CONSTRUCTION STAKING POINT	×



HORIZONTAL SCALE: 1" = 6'  
VERTICAL SCALE: 1" = 6'  
SITE D PIPE PROFILE

BY	REVISION DESCRIPTION	DATE
BD	REVISE CONSTRUCTION STAKING POINTS	12/13/2024
#		1

STATE OF MISSOURI  
Professional Engineer  
Bruce Dawson  
E-22331  
12.19.24

Bruce Dawson, P.E.  
E-22331

SHEET #  
1.1 OF 27

FILE NAME  
Site-Plan-14

PROJECT NAME  
LAKEWOOD RD

SHEET #  
1.1 OF 27

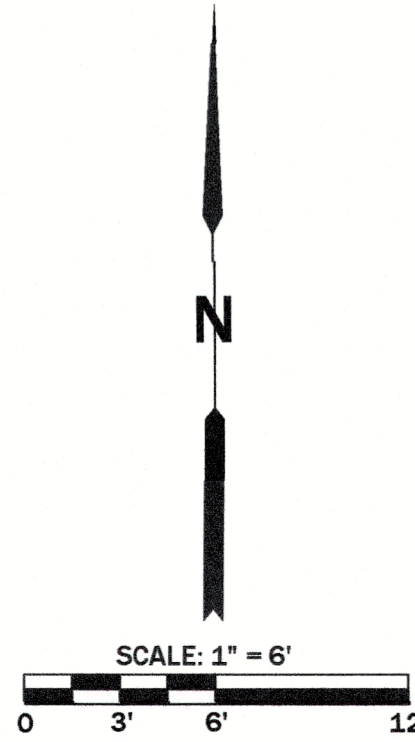
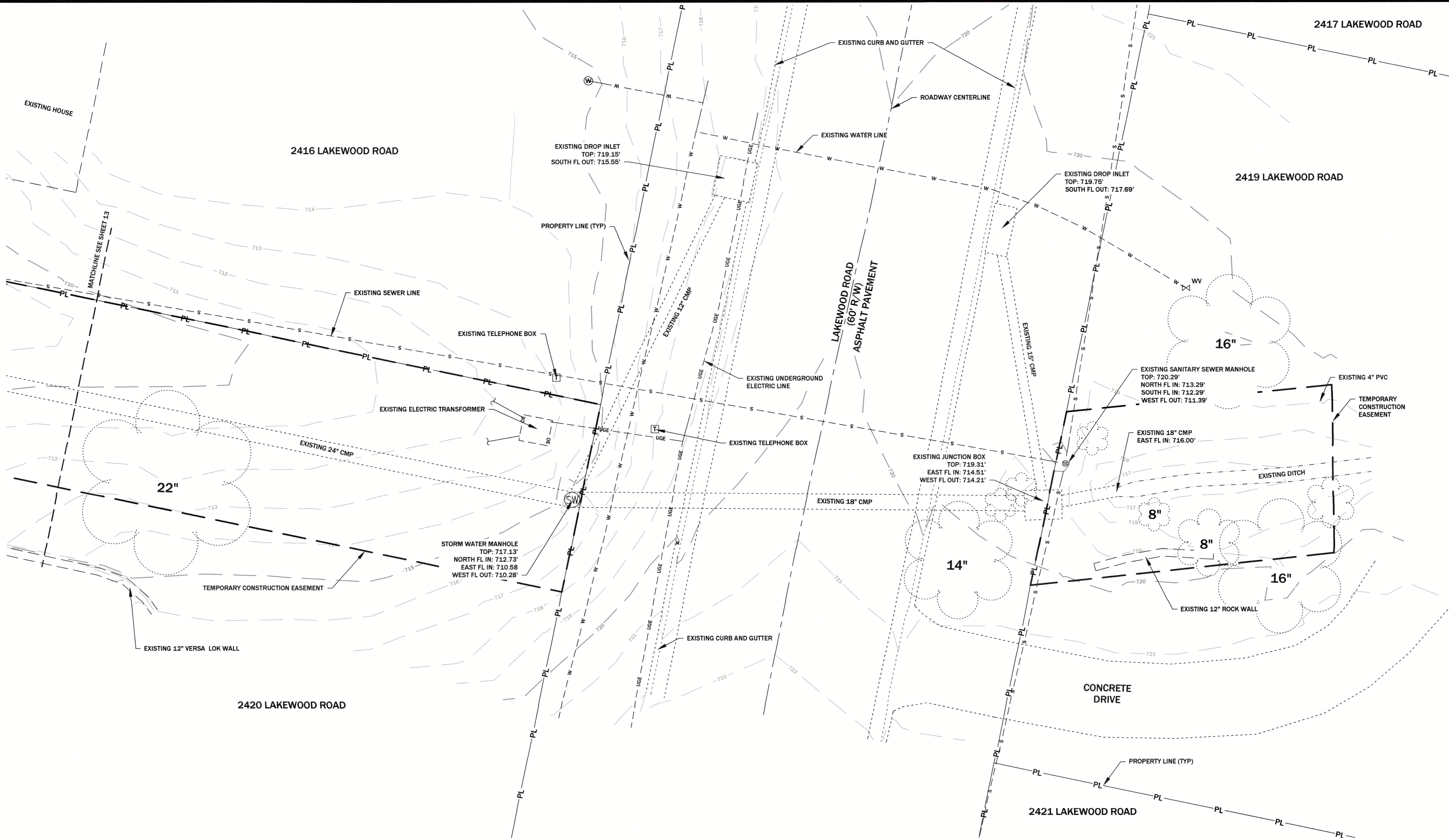
COUNTY OF COLE  
LAKEWOOD SUBDIVISION  
STORMWATER IMPROVEMENT  
PROJECT NO. 2023-201-1

GREDELL  
ENGINEERING RESOURCES  
CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
MO CORP. ENGINEERING LICENSE NO. E-2000001669-D

ORIGINAL SHEET SIZE: 24" x 36"

PRINTED ON: 11/22/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-06.dwg

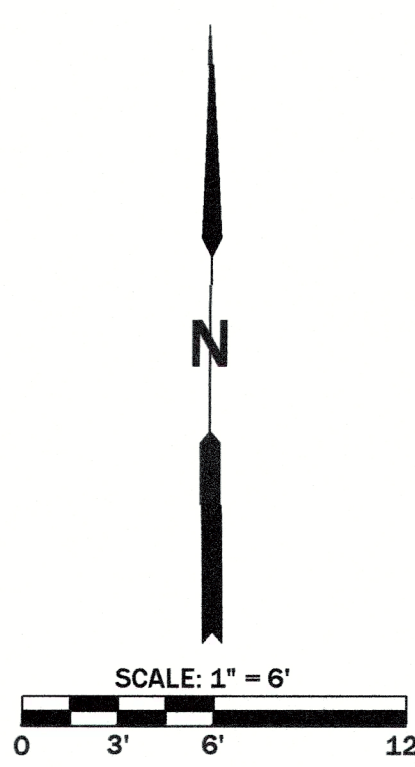
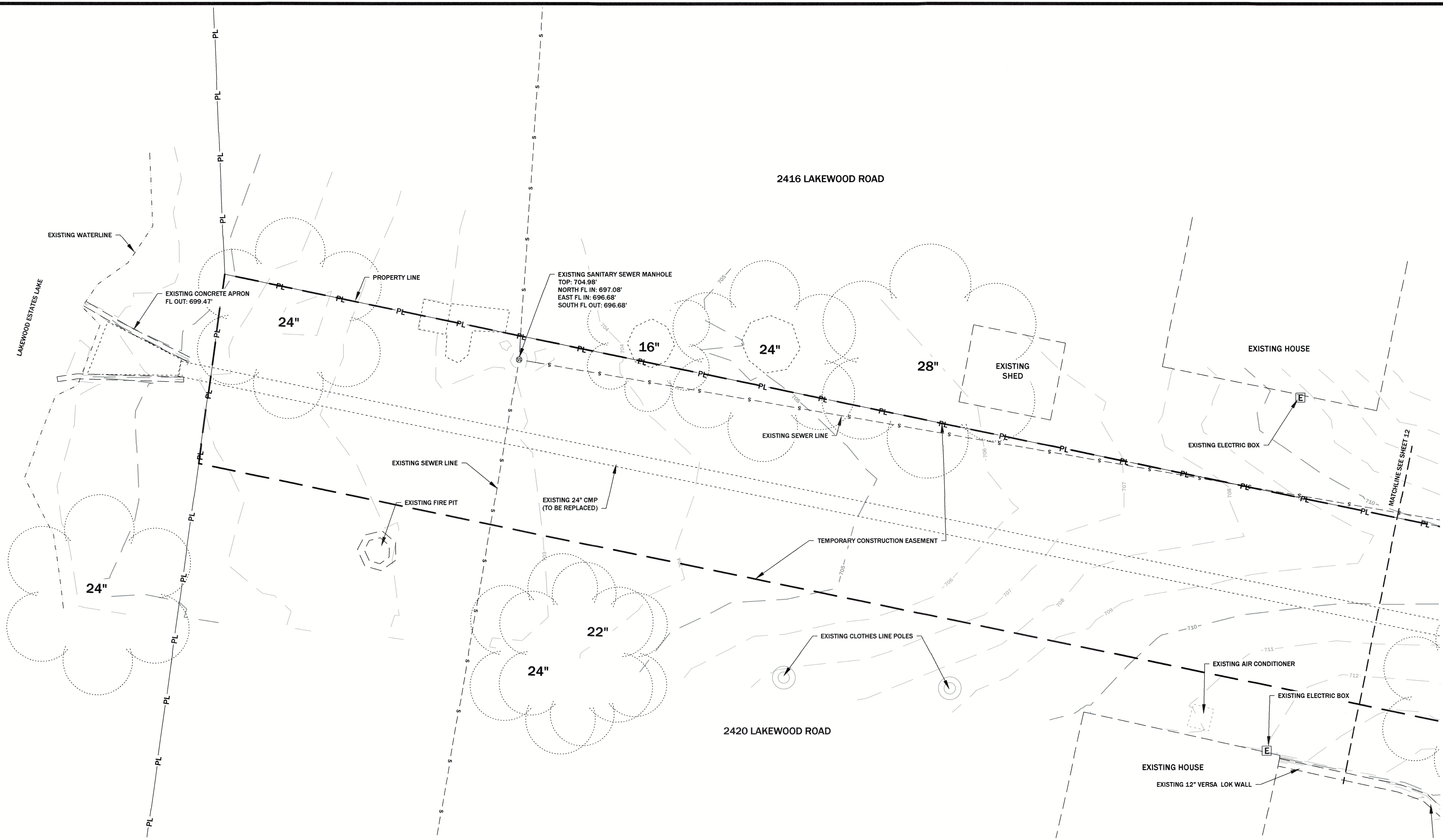


**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	(Tree symbol)
EXISTING MINOR 1FT CONTOUR	---	EXISTING MAIL BOX	(MB symbol)
EXISTING STRUCTURES	---	EXISTING TELEPHONE BOX	(T symbol)
SANITARY SEWER LINE	---	EXISTING TV BOX	(TV symbol)
UNDERGROUND ELECTRIC LINE	---	EXISTING ELECTRIC BOX	(E symbol)
WATER LINE	---	EXISTING WATER METER	(W symbol)
GAS LINE	---	EXISTING SANITARY SEWER MANHOLE	(S symbol)
PROPERTY LINE	---	FLOW DIRECTION	(Arrow symbol)
ROADWAY CENTERLINE	---	GAS MAIN	(G symbol)
EDGE OF WATER	---	CLEANOUT	(C symbol)
EDGE OF BRUSH	---	FIRE HYDRANT	(F symbol)
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	(V symbol)

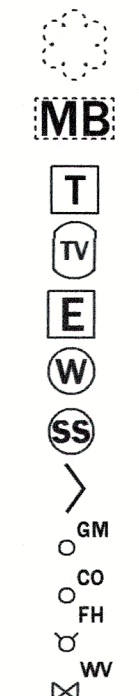
**NOTES:**  
 1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.  
 2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.

<p>Bruce Dawson, P.E. E-22331</p>	REVISION DESCRIPTION	BY
	DATE	
	#	
<b>SHEET 12</b> <b>SITE E EXISTING CONDITIONS</b>		
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		
SURVEYED: N/A DESIGNED: J.B. DRAWN: C.M. CHECKED: J.B. APPROVED: J.B.	PROJECT NAME: LAKEWOOD DR	SHEET #: 12 OF 27
<p><b>GREDELL ENGINEERING RESOURCES</b>          CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES          1505 East High Street          Jefferson City, Missouri          Telephone: (573) 659-9078          Facsimile: (573) 659-9079          MO CORP. ENGINEERING LICENSE NO. E-2001001669-D</p>		



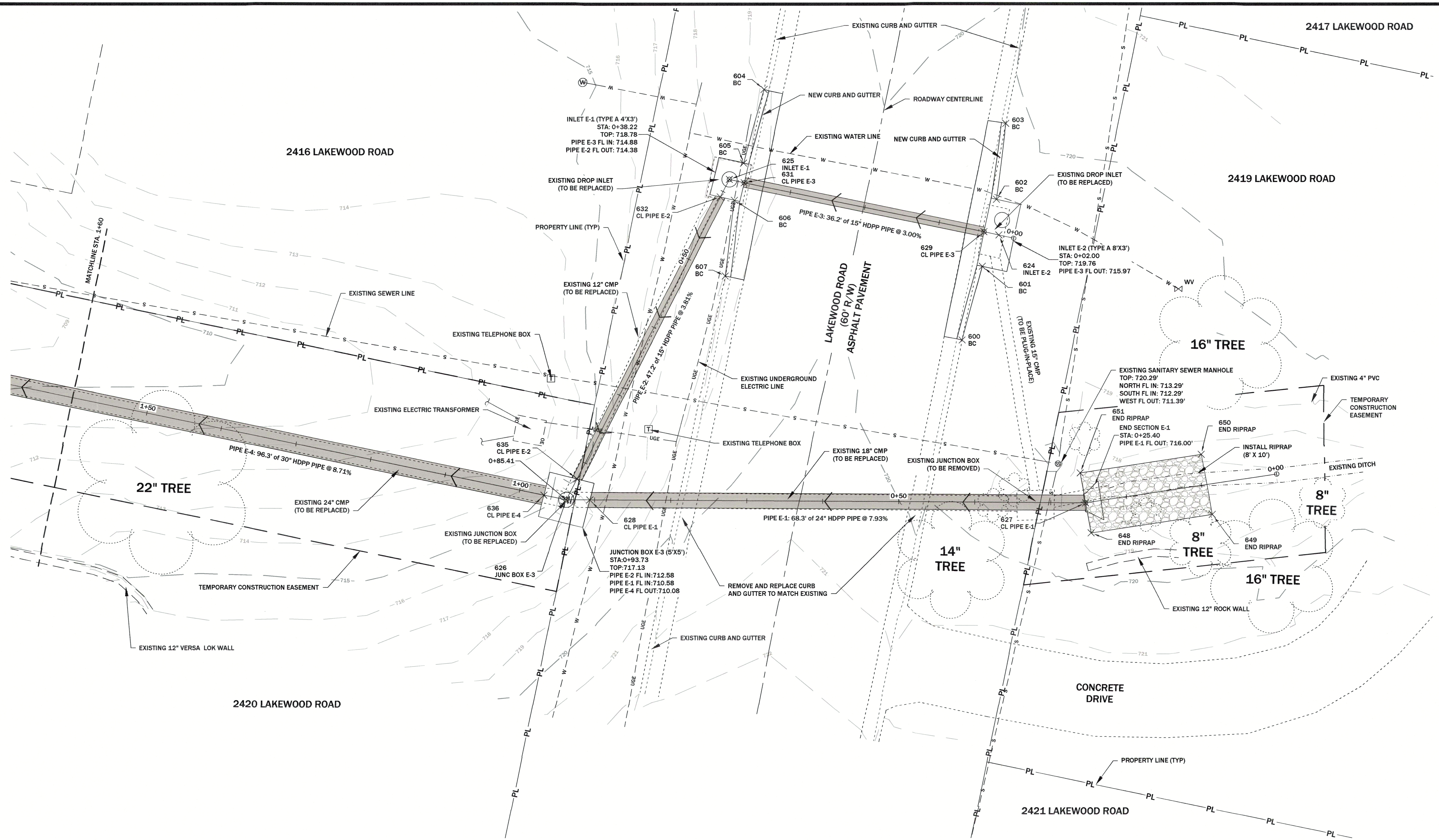
**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	(Tree Symbol)
EXISTING MINOR 1FT CONTOUR	----	EXISTING MAIL BOX	(Mail Box Symbol)
EXISTING STRUCTURES	(Dashed Outline)	EXISTING TELEPHONE BOX	(Telephone Box Symbol)
SANITARY SEWER LINE	---	EXISTING TV BOX	(TV Box Symbol)
UNDERGROUND ELECTRIC LINE	---	EXISTING ELECTRIC BOX	(Electric Box Symbol)
WATER LINE	---	EXISTING WATER METER	(Water Meter Symbol)
GAS LINE	---	EXISTING SANITARY SEWER MANHOLE	(Manhole Symbol)
PROPERTY LINE	PL	FLOW DIRECTION	(Arrow)
ROADWAY CENTERLINE	---	GAS MAIN	(Gas Main Symbol)
EDGE OF WATER	---	CLEANOUT	(Cleanout Symbol)
EDGE OF BRUSH	---	FIRE HYDRANT	(Fire Hydrant Symbol)
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	(Water Valve Symbol)



**NOTES:**  
 1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.  
 2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.

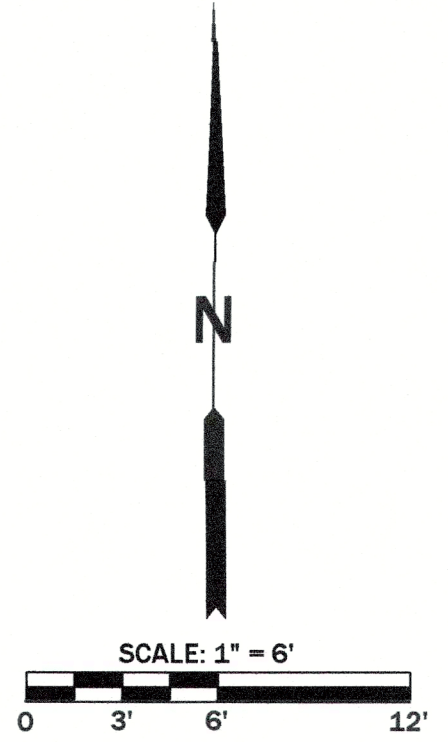
<p>Bruce Dawson, P.E. E-22331</p>	REVISION DESCRIPTION	BY
	DATE	
	#	
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		
<b>SHEET 13</b> <b>SITE E EXISTING CONDITIONS</b>		
SURVEYED: N/A DESIGNED: JB DRAWN: CN CHECKED: JB APPROVED: BD	DATE: 11/20/24 SCALE: 1" = 6' PROJECT NAME: LAKEWOOD DR FILE NAME: Site-Plan-23	SHEET # 13 OF 27
<p><b>GREDELL ENGINEERING RESOURCES</b>        CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES        1505 East High Street        Jefferson City, Missouri        Telephone: (573) 659-9078        Facsimile: (573) 659-9079        MO CORP. ENGINEERING LICENSE NO. E-2603001689-D</p>		



**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	(Tree Symbol)
EXISTING MINOR 1FT CONTOUR	----	EXISTING MAIL BOX	(MB Symbol)
EXISTING STRUCTURES	(Solid Line)	EXISTING TELEPHONE BOX	(T Symbol)
SANITARY SEWER LINE	---	EXISTING TV BOX	(TV Symbol)
UNDERGROUND ELECTRIC LINE	---	EXISTING ELECTRIC BOX	(E Symbol)
WATER LINE	---	EXISTING WATER METER	(W Symbol)
GAS LINE	---	EXISTING SANITARY SEWER MANHOLE	(SS Symbol)
PROPERTY LINE	PL	FLOW DIRECTION	(Arrow Symbol)
ROADWAY CENTERLINE	---	GAS MAIN	(GM Symbol)
EDGE OF WATER	---	CLEANOUT	(CO Symbol)
EDGE OF BRUSH	---	FIRE HYDRANT	(FH Symbol)
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	(WV Symbol)
		CONSTRUCTION STAKING POINT	(X Symbol)

- NOTES:**
1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
  2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
  3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
  4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  6. CONTRACTOR SHALL POT-HOLE TO LOCATE UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
  7. REGRADE CHANNEL FLOWLINE AS NEEDED TO FACILITATE RIPRAP PLACEMENT SURROUNDING UPSTREAM AND DOWNSTREAM FLARED END SECTIONS.
  8. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.

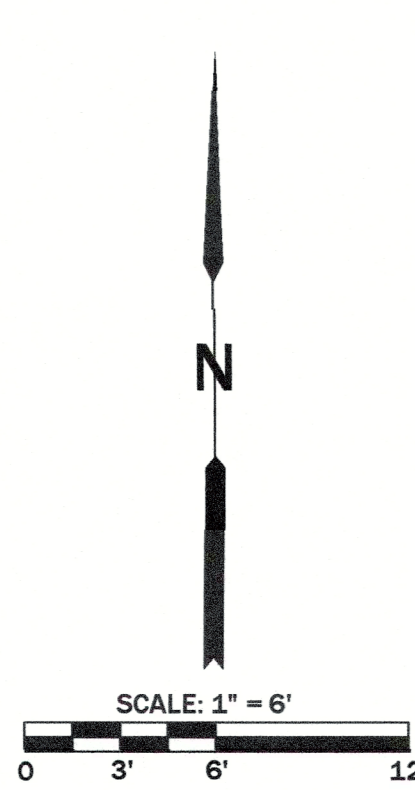
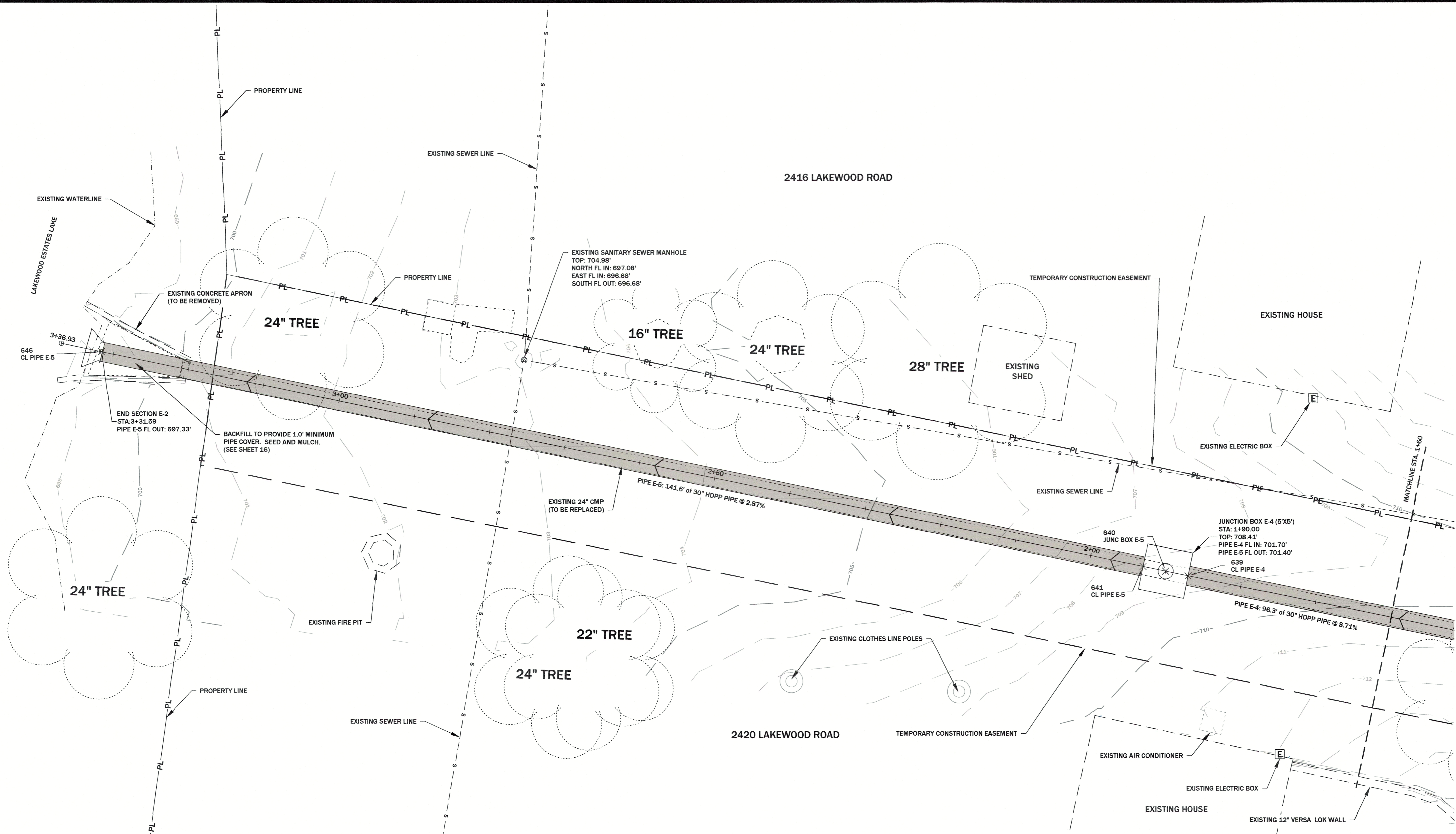


BY	REVISION DESCRIPTION	BD
	REVERSE CONSTRUCTION STAKING POINTS	BD
DATE	12/13/2024	
#	1	
Bruce Dawson, P.E. E-22331		
<b>SHEET 14</b> <b>SITE E IMPROVEMENT</b>		
PROJECT NAME	LAKEWOOD RD	SHEET # 14 OF 27
FILE NAME	Site-Plan-15	
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		
SURVEYED	N/A	SCALE 1" = 6'
DESIGNED	JB	DATE 12/2024
DRAWN	BM	APPROVED
CHECKED	JB	
DATE	12/2024	
BY	BD	
DATE	12/2024	
BY	BM	
DATE	12/2024	
BY	JB	
DATE	12/2024	
CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES Telephone: (573) 659-9078 Facsimile: (573) 659-9079 Jefferson City, Missouri MO CORP. ENGINEERING LICENSE NO. E-2001001669D		

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

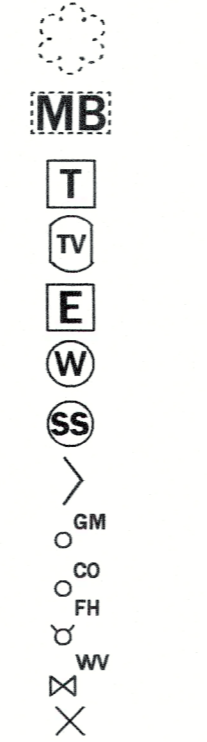
FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-20.dwg



**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---
EXISTING MINOR 1FT CONTOUR	- - - - -
EXISTING STRUCTURES	▭
SANITARY SEWER LINE	— S —
UNDERGROUND ELECTRIC LINE	— UGE —
WATER LINE	— W —
GAS LINE	— G —
PROPERTY LINE	— PL —
ROADWAY CENTERLINE	—
EDGE OF WATER	~ ~ ~ ~ ~
EDGE OF BRUSH	~ ~ ~ ~ ~
TEMPORARY CONSTRUCTION EASEMENT	- - - - -

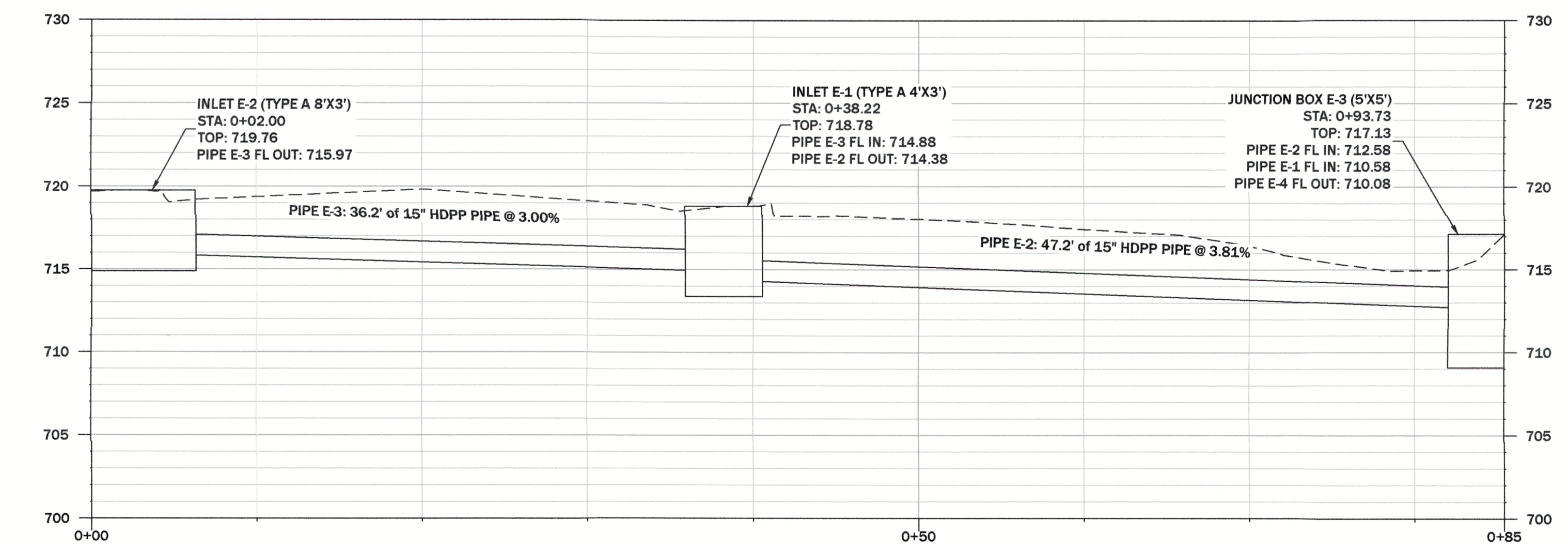
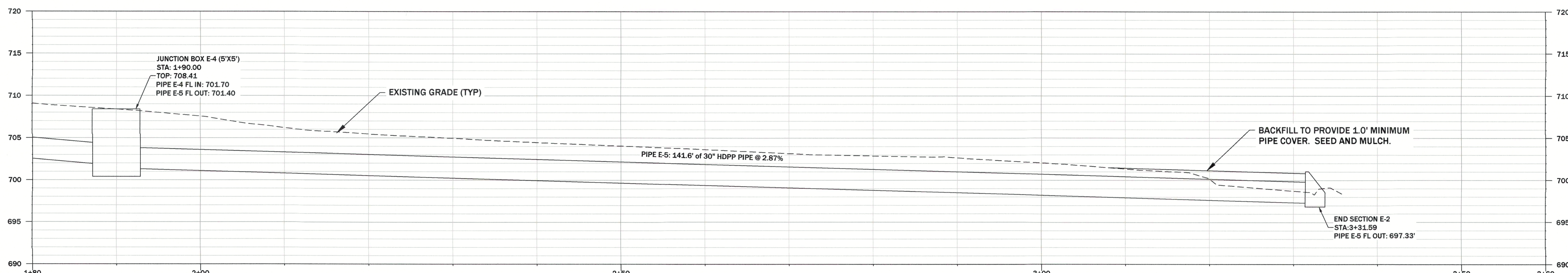
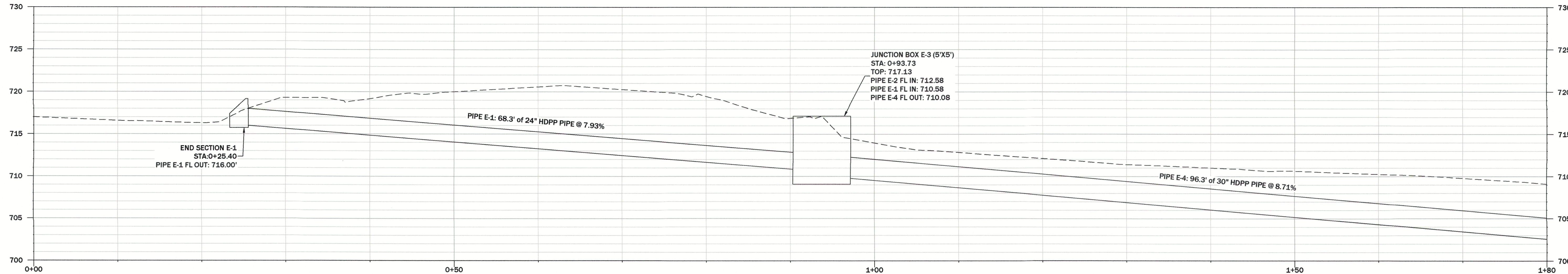
EXISTING TREE	○
EXISTING MAIL BOX	Ⓜ
EXISTING TELEPHONE BOX	Ⓣ
EXISTING TV BOX	Ⓥ
EXISTING ELECTRIC BOX	ⓔ
EXISTING WATER METER	Ⓦ
EXISTING SANITARY SEWER MANHOLE	Ⓢ
FLOW DIRECTION	→
GAS MAIN	— GM —
CLEANOUT	— CO —
FIRE HYDRANT	— FH —
WATER VALVE	— WV —
CONSTRUCTION STAKING POINT	×



- NOTES:**
1. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
  2. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  3. CONTRACTOR SHALL POT-HOLE TO LOCATE UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
  4. REGRADE CHANNEL FLOWLINE AS NEEDED TO FACILITATE RIPRAP PLACEMENT SURROUNDING UPSTREAM AND DOWNSTREAM FLARED END SECTIONS.
  5. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.

BY	REVISION DESCRIPTION	
	REVISE CONSTRUCTION STAKING POINTS	
DATE	12/13/2024	
#	1	
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		
<b>SHEET 15</b> <b>SITE E IMPROVEMENT</b>		
PROJECT NAME	LAKEWOOD RD	SHEET # 15 OF 27
FILE NAME	Site-Plan-20	
SCALE	1" = 6'	
DATE	12/20/24	
DESIGNED	CM	
CHECKED	BD	
APPROVED	JB	
DRAWN	CM	
SURVEYED	N/A	
CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES Telephone: (573) 659-9078 Facsimile: (573) 659-9079 1505 East High Street Jefferson City, Missouri MO CORP. ENGINEERING LICENSE NO. E-2002001669D		

ORIGINAL SHEET SIZE: 24" X 36"



**HORIZONTAL SCALE:**  
1" = 6'

**VERTICAL SCALE:**  
1" = 6'

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\SitePlan-21.dwg PRINTED ON: 12/19/24 BY: cm

BY	REVISION DESCRIPTION
BD	REVISE CONTROL POINTS
1	

DATE: 12/13/2024

**BRUCE DAWSON, P.E.**  
E-22331

**SHEET 16**  
SITE E PROFILES

FILE NAME: SitePlan-21  
PROJECT NAME: LAKEWOOD RD  
SHEET #: 16 OF 27

**COUNTY OF COLE**  
**LAKEWOOD SUBDIVISION**  
**STORMWATER IMPROVEMENT**  
**PROJECT NO. 2023-201-1**

SURVEYED	DESIGNED	CHECKED	APPROVED	DATE	SCALE
N/A	JB	JB	BD	11/2024	AS SHOWN

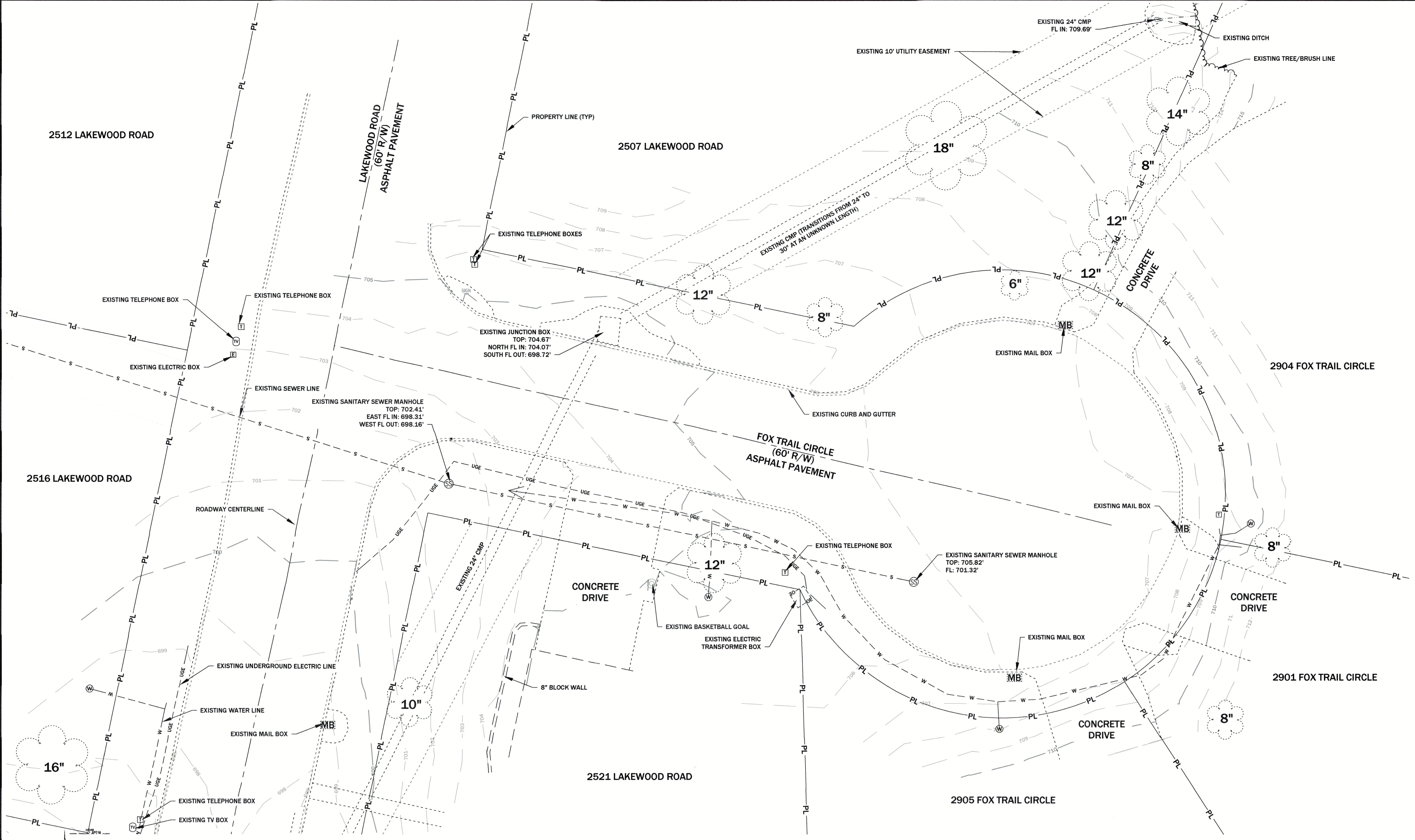
**GREDELL**  
ENGINEERING RESOURCES

CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
MO CORP. ENGINEERING LICENSE NO. E-2001001669-D

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 11/22/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-08.dwg

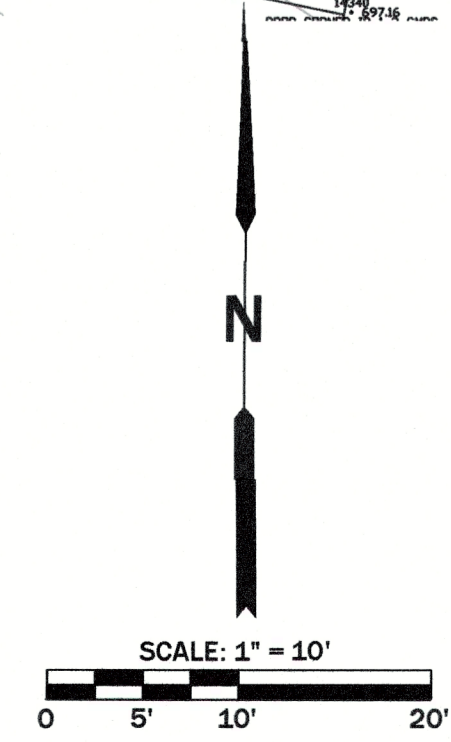


LEGEND:

- |                                 |     |                                 |                |
|---------------------------------|-----|---------------------------------|----------------|
| EXISTING MAJOR 5FT CONTOUR      | --- | EXISTING TREE                   | (Tree Symbol)  |
| EXISTING MINOR 1FT CONTOUR      | --- | EXISTING MAIL BOX               | (MB Symbol)    |
| EXISTING STRUCTURES             | --- | EXISTING TELEPHONE BOX          | (T Symbol)     |
| SANITARY SEWER LINE             | --- | EXISTING TV BOX                 | (TV Symbol)    |
| UNDERGROUND ELECTRIC LINE       | --- | EXISTING ELECTRIC BOX           | (E Symbol)     |
| WATER LINE                      | --- | EXISTING WATER METER            | (W Symbol)     |
| GAS LINE                        | --- | EXISTING SANITARY SEWER MANHOLE | (SS Symbol)    |
| PROPERTY LINE                   | --- | FLOW DIRECTION                  | (Arrow Symbol) |
| ROADWAY CENTERLINE              | --- | GAS MAIN                        | (G Symbol)     |
| EDGE OF WATER                   | --- | CLEANOUT                        | (CO Symbol)    |
| EDGE OF BRUSH                   | --- | FIRE HYDRANT                    | (FH Symbol)    |
| TEMPORARY CONSTRUCTION EASEMENT | --- | WATER VALVE                     | (WV Symbol)    |

NOTES:

- SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.
- EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.

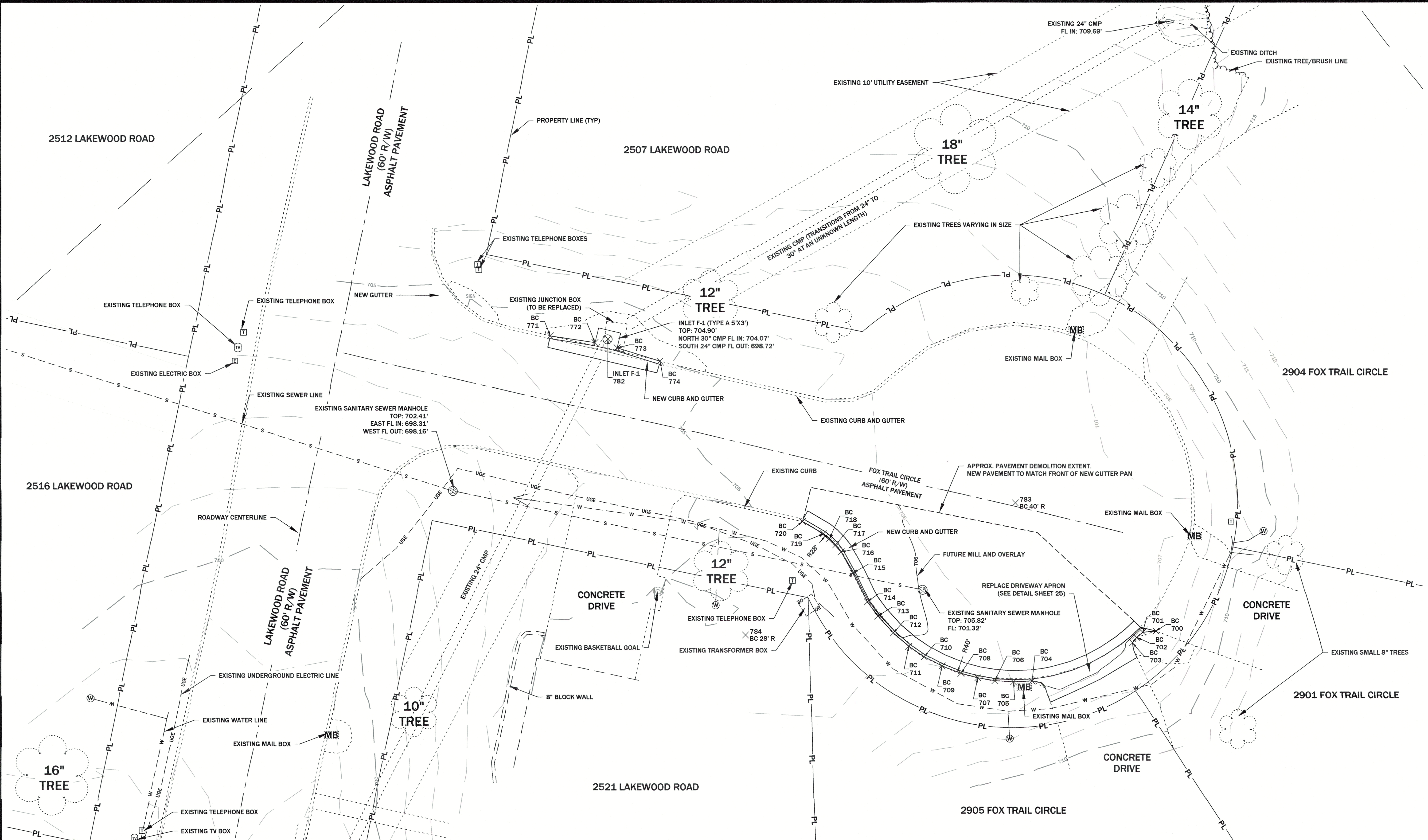


BY		REVISION DESCRIPTION	
DATE			
#			
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>			
<b>SHEET 17</b> <b>SITE F EXISTING CONDITIONS</b>		FILE NAME	17 OF 27
		PROJECT NAME	LAKEWOOD DR
		SCALE	1" = 10'
		DATE	11/20/24
		CHECKED	JB
		APPROVED	JB
		DRAWN	CM
		DESIGNED	JB
		SURVEYED	N/A
<b>GREDELL ENGINEERING RESOURCES</b> CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES 1505 East High Street Jefferson City, Missouri Telephone: (573) 659-9078 Facsimile: (573) 659-9079 MO CORP. ENGINEERING LICENSE NO. E-260101665-D			

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\SitePlan-16.dwg



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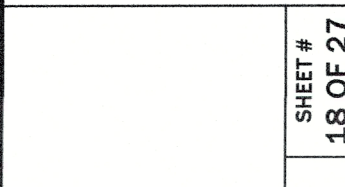
- |                                 |      |                                 |    |
|---------------------------------|------|---------------------------------|----|
| EXISTING MAJOR 5FT CONTOUR      | ---  | EXISTING TREE                   | ○  |
| EXISTING MINOR 1FT CONTOUR      | ---- | EXISTING MAIL BOX               | MB |
| EXISTING STRUCTURES             | ▭    | EXISTING TELEPHONE BOX          | T  |
| SANITARY SEWER LINE             | ---  | EXISTING TV BOX                 | TV |
| UNDERGROUND ELECTRIC LINE       | ---  | EXISTING ELECTRIC BOX           | E  |
| WATER LINE                      | ---  | EXISTING WATER METER            | W  |
| GAS LINE                        | ---  | EXISTING SANITARY SEWER MANHOLE | SM |
| PROPERTY LINE                   | PL   | FLOW DIRECTION                  | →  |
| ROADWAY CENTERLINE              | ---  | GAS MAIN                        | G  |
| EDGE OF WATER                   | ~    | CLEANOUT                        | CO |
| EDGE OF BRUSH                   | ~    | FIRE HYDRANT                    | FD |
| TEMPORARY CONSTRUCTION EASEMENT | ---  | WATER VALVE                     | WV |
|                                 |      | CONSTRUCTION STAKING POINT      | SP |

**NOTES:**

1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
6. VARIATIONS FROM ELEVATIONS AND GRADE MUST BE APPROVED BY ENGINEER.
7. FUTURE OVERLAY SHOULD BE MADE TO PROPOSED GRADE OF ROADWAY SURFACE.
8. REPLACE 30' CMP SECTION ENTERING INLET F-1 FROM THE NORTH WITH 24" PIPE AND CONNECT TO EXISTING 24" CMP.
9. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.

BY	REVISION DESCRIPTION
BD	REVISE CONSTRUCTION STAKING POINTS

DATE: 12/13/2024  
 # 1



**SHEET 18**  
**SITE F IMPROVEMENT**

COUNTY OF COLE  
 LAKEWOOD SUBDIVISION  
 STORMWATER IMPROVEMENT  
 PROJECT NO. 2023-201-1

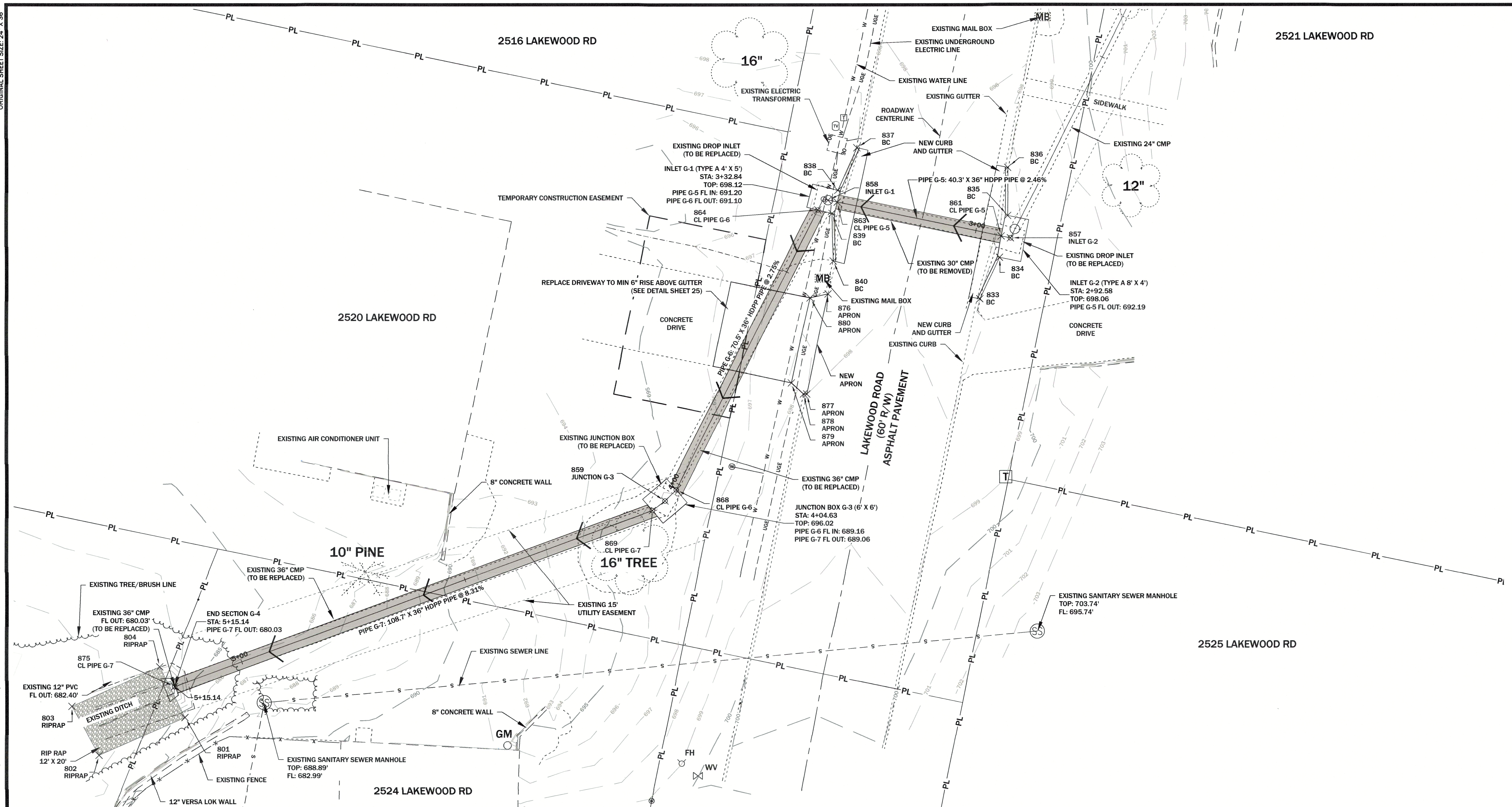
**GREDELL**  
 ENGINEERING RESOURCES  
 CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES  
 Telephone: (573) 659-9078  
 Facsimile: (573) 659-9079  
 1505 East High Street  
 Jefferson City, Missouri  
 MO CORP. ENGINEERING LICENSE NO. E-5600101669D



ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

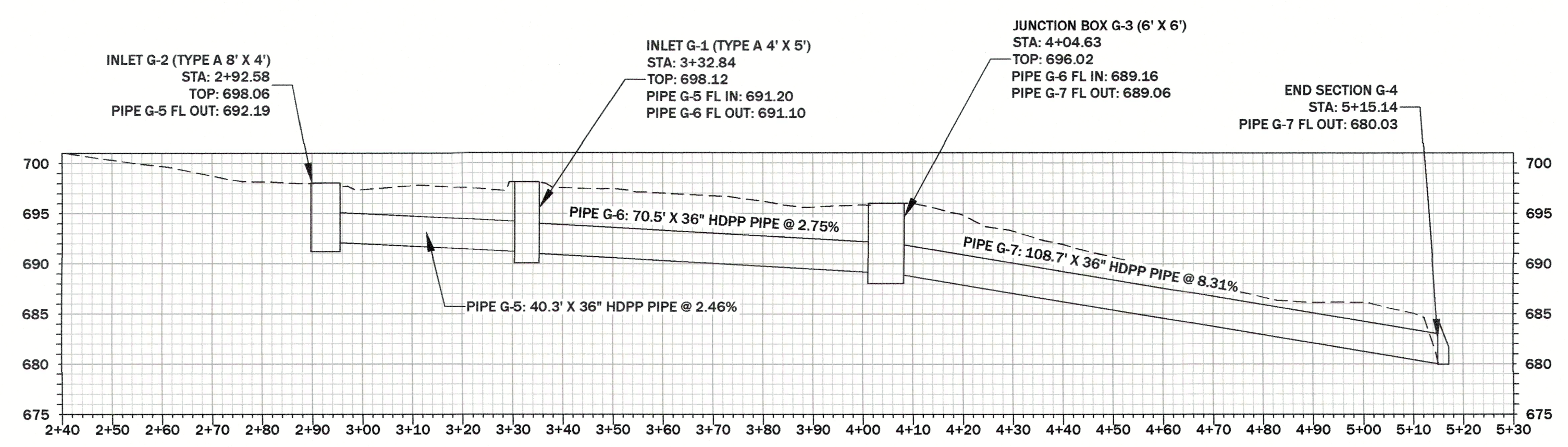
FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\SitePlan-17.dwg



**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	(Tree Symbol)
EXISTING MINOR 1FT CONTOUR	---	EXISTING MAIL BOX	(MB Symbol)
EXISTING STRUCTURES	(Building Symbol)	EXISTING TELEPHONE BOX	(T Symbol)
SANITARY SEWER LINE	-s-	EXISTING TV BOX	(TV Symbol)
UNDERGROUND ELECTRIC LINE	-uge-	EXISTING ELECTRIC BOX	(E Symbol)
WATER LINE	-w-	EXISTING WATER METER	(W Symbol)
GAS LINE	-g-	EXISTING SANITARY SEWER MANHOLE	(SS Symbol)
PROPERTY LINE	-pl-	FLOW DIRECTION	(Arrow Symbol)
ROADWAY CENTERLINE	-rc-	GAS MAIN	(GM Symbol)
EDGE OF WATER	(Wavy Line)	CLEANOUT	(CO Symbol)
EDGE OF BRUSH	(Dashed Line)	FIRE HYDRANT	(FH Symbol)
TEMPORARY CONSTRUCTION EASEMENT	(Dashed Line)	WATER VALVE	(WV Symbol)
		CONSTRUCTION STAKING POINT	(X Symbol)

- NOTES:**
1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
  2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
  3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
  4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  6. CONTRACTOR TO JOINT SEAL EXISTING AND NEW JOINTS BETWEEN NEW AND EXISTING CURB AND GUTTER.
  7. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.



HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 10'  
 SITE G PIPE PROFILE

#	DATE	REVISION DESCRIPTION	BY
1	12/13/2024	REVISE CONSTRUCTION STAKING POINTS	BD

**STATE OF MISSOURI**  
*Bruce Dawson*  
 Bruce Dawson, P.E.  
 E-22331

**PROJECT NAME:** LAKEWOOD RD  
**FILE NAME:** SitePlan-17  
**SHEET #:** 20 OF 27

**COUNTY OF COLE**  
**LAKEWOOD SUBDIVISION**  
**STORMWATER IMPROVEMENT**  
**PROJECT NO. 2023-201-1**

DATE	APPROVED	CHECKED	DRAWN	DESIGNED	SCALE
12/2024	BD	JB	BM	JB	1" = 10'

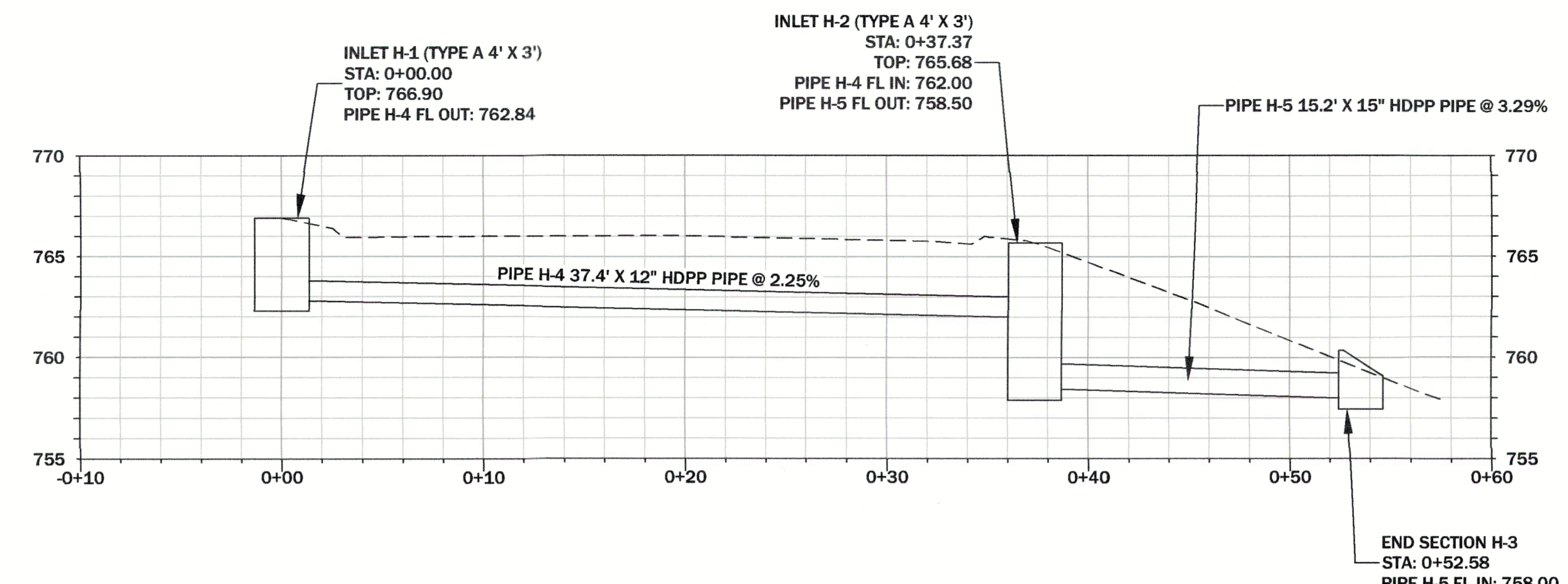
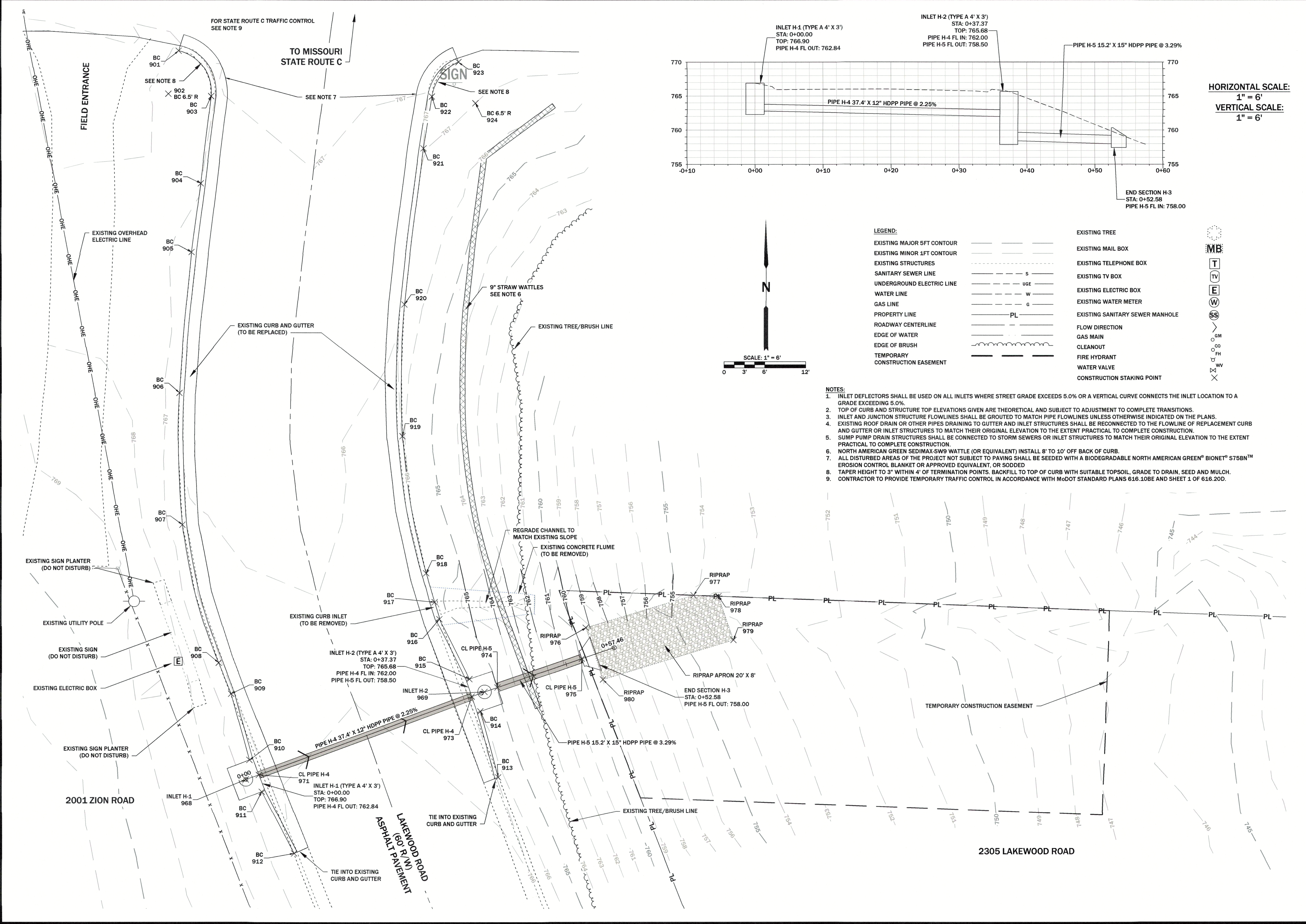
**GREDELL ENGINEERING RESOURCES**  
 CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
 1505 East High Street  
 Jefferson City, Missouri  
 Telephone: (573) 659-9078  
 Facsimile: (573) 659-9079  
 MO CORP. ENGINEERING LICENSE NO. E-200103169-0



ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

FILE PATH AND FILENAME: O:\CADD\Files\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-18.dwg



HORIZONTAL SCALE:  
1" = 6'  
VERTICAL SCALE:  
1" = 6'

**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	⊗
EXISTING MINOR 1FT CONTOUR	----	EXISTING MAIL BOX	⊞
EXISTING STRUCTURES	---	EXISTING TELEPHONE BOX	⊞
SANITARY SEWER LINE	---	EXISTING TV BOX	⊞
UNDERGROUND ELECTRIC LINE	---	EXISTING ELECTRIC BOX	⊞
WATER LINE	---	EXISTING WATER METER	⊞
GAS LINE	---	EXISTING SANITARY SEWER MANHOLE	⊞
PROPERTY LINE	---	FLOW DIRECTION	→
ROADWAY CENTERLINE	---	GAS MAIN	---
EDGE OF WATER	---	CLEANOUT	---
EDGE OF BRUSH	---	FIRE HYDRANT	---
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	---
		CONSTRUCTION STAKING POINT	⊗

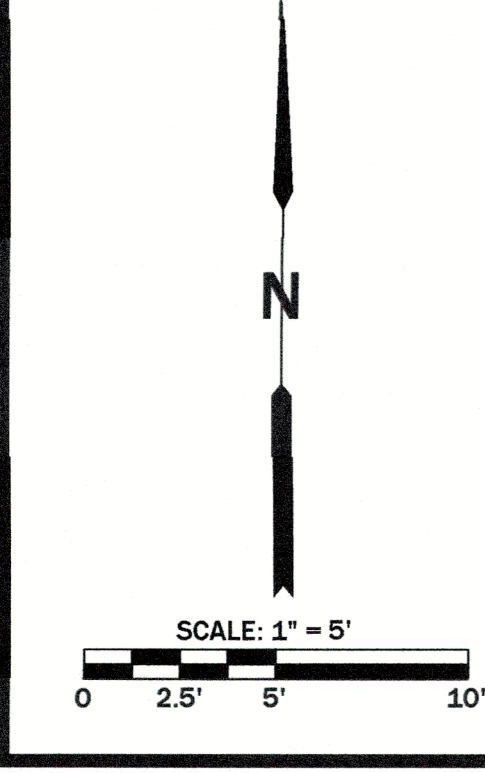
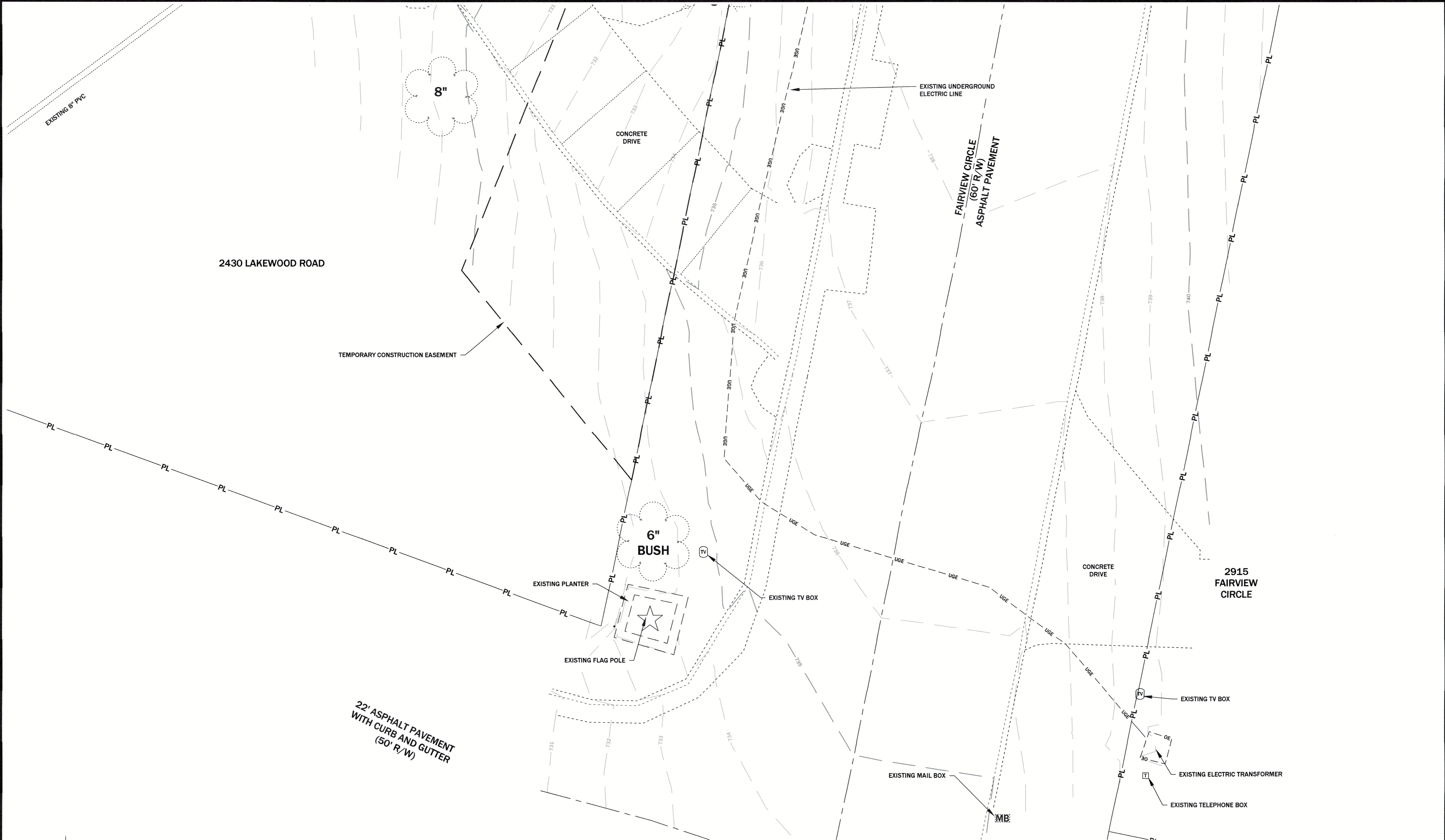
- NOTES:**
1. INLET DEFLECTORS SHALL BE USED ON ALL INLETS WHERE STREET GRADE EXCEEDS 5.0% OR A VERTICAL CURVE CONNECTS THE INLET LOCATION TO A GRADE EXCEEDING 5.0%.
  2. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
  3. INLET AND JUNCTION STRUCTURE FLOWLINES SHALL BE GROUTED TO MATCH PIPE FLOWLINES UNLESS OTHERWISE INDICATED ON THE PLANS.
  4. EXISTING ROOF DRAIN OR OTHER PIPES DRAINING TO GUTTER AND INLET STRUCTURES SHALL BE RECONNECTED TO THE FLOWLINE OF REPLACEMENT CURB AND GUTTER OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  5. SUMP PUMP DRAIN STRUCTURES SHALL BE CONNECTED TO STORM SEWERS OR INLET STRUCTURES TO MATCH THEIR ORIGINAL ELEVATION TO THE EXTENT PRACTICAL TO COMPLETE CONSTRUCTION.
  6. NORTH AMERICAN GREEN SEDIMAX-SW9 WATTLE (OR EQUIVALENT) INSTALL 8' TO 10' OFF BACK OF CURB.
  7. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.
  8. TAPER HEIGHT TO 3" WITHIN 4' OF TERMINATION POINTS. BACKFILL TO TOP OF CURB WITH SUITABLE TOPSOIL, GRADE TO DRAIN, SEED AND MULCH.
  9. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH MoDOT STANDARD PLANS 616.10BE AND SHEET 1 OF 616.20D.

BY	REVISION DESCRIPTION	DATE	#
	REVISE CONSTRUCTION STAKING POINTS	12/13/2024	
<b>SHEET 22</b> <b>SITE H IMPROVEMENT</b>		FILE NAME	SHEET #
		Site-Plan-18	22 OF 27
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		PROJECT NAME	SCALE
		LAKEWOOD RD	1" = 6'
SURVEYED	DRAWN	CHECKED	APPROVED
I/A	JB	JB	JB
		DATE	DATE
		12/20/24	12/20/24
		CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES Telephone: (573) 659-9078 1505 East High Street Jefferson City, Missouri Facsimile: (573) 659-9079 MO CORP. ENGINEERING LICENSE NO. E-500101869D	

ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 11/22/24 BY: ctm

FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\SitePlan-07.dwg



**LEGEND:**

EXISTING MAJOR 5FT CONTOUR	---	EXISTING TREE	(Symbol)
EXISTING MINOR 1FT CONTOUR	---	EXISTING MAIL BOX	(Symbol)
EXISTING STRUCTURES	---	EXISTING TELEPHONE BOX	(Symbol)
SANITARY SEWER LINE	---	EXISTING TV BOX	(Symbol)
UNDERGROUND ELECTRIC LINE	---	EXISTING ELECTRIC BOX	(Symbol)
WATER LINE	---	EXISTING WATER METER	(Symbol)
GAS LINE	---	EXISTING SANITARY SEWER MANHOLE	(Symbol)
PROPERTY LINE	PL	FLOW DIRECTION	(Symbol)
ROADWAY CENTERLINE	---	GAS MAIN	(Symbol)
EDGE OF WATER	---	CLEANOUT	(Symbol)
EDGE OF BRUSH	---	FIRE HYDRANT	(Symbol)
TEMPORARY CONSTRUCTION EASEMENT	---	WATER VALVE	(Symbol)

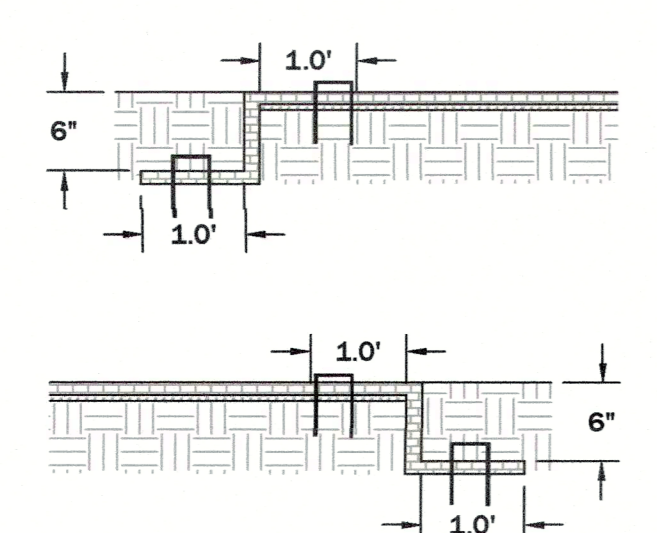
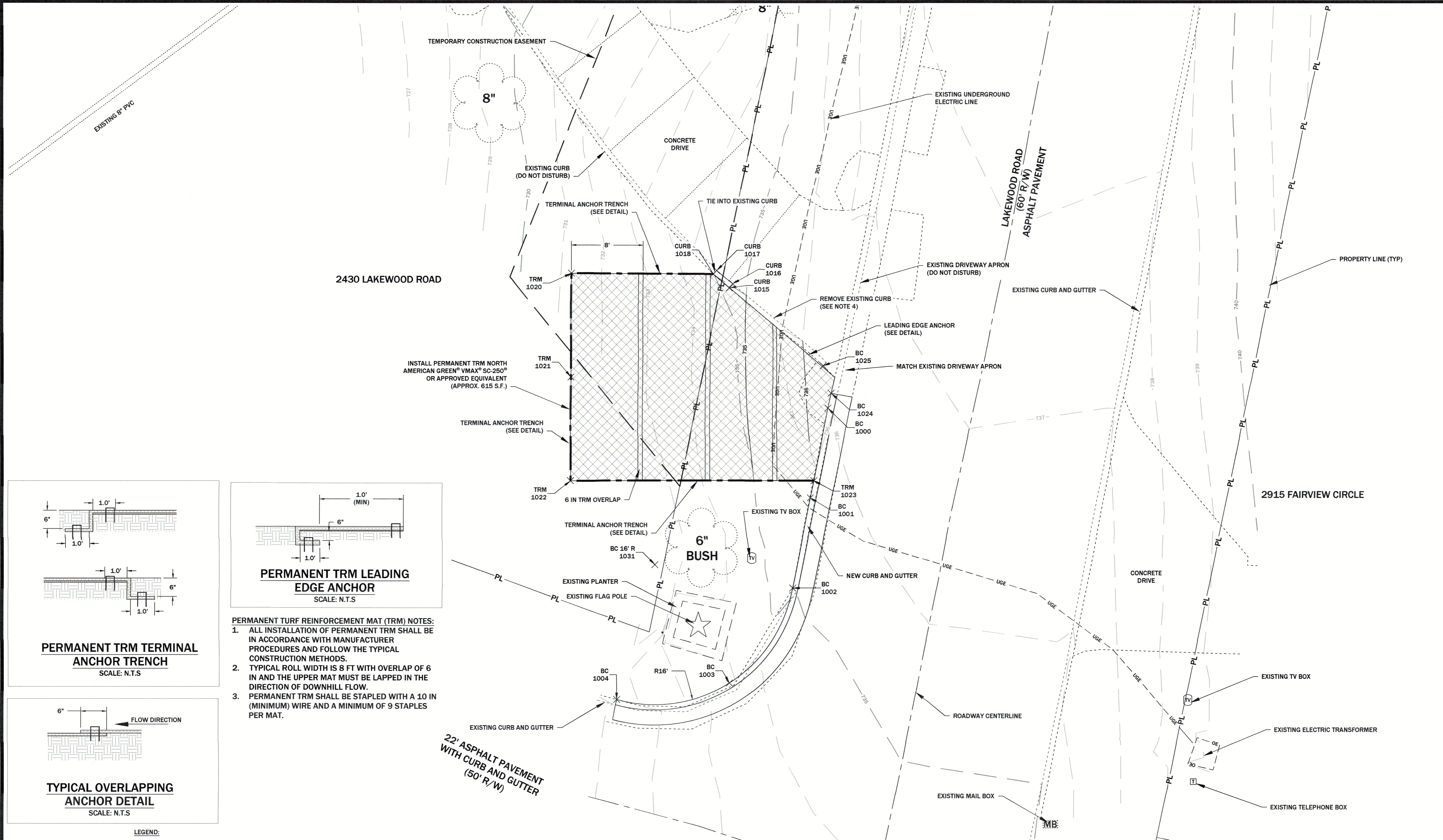
**NOTES:**  
 1. SURVEY DATUM IS STATE PLANE NAD 83, CENTRAL ZONE, US SURVEY FOOT.  
 2. EXISTING STRUCTURES AND TOPOGRAPHIC CONTOURS PROVIDED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. (CMPS) SURVEY DATA ON JULY 30, 2024.

	DATE	REVISION DESCRIPTION	BY
	#		
<b>COUNTY OF COLE</b> <b>LAKEWOOD SUBDIVISION</b> <b>STORMWATER IMPROVEMENT</b> <b>PROJECT NO. 2023-201-1</b>		<b>SHEET 23</b> <b>SITE I EXISTING CONDITIONS</b>	
SURVEYED	DESIGNED	DRAWN	CHECKED
I/A	J/B	C/N	J/B
DATE	DATE	SCALE	SHEET #
11/2024	11/2024	1" = 5'	23 OF 27
PROJECT NAME	FILE NAME		
LAKEWOOD DR	SitePlan-07		
<b>GREDELL ENGINEERING RESOURCES</b> CIVIL • GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • EARTH SCIENCES Telephone: (573) 659-9078 Facsimile: (573) 659-9079 Jefferson City, Missouri <small>MO CORP. ENGINEERING LICENSE NO. E-600101669D</small>			

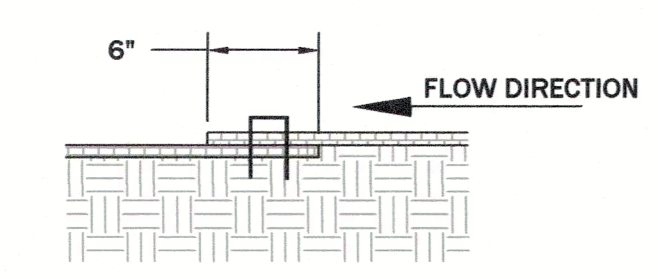
ORIGINAL SHEET SIZE: 24" X 36"

PRINTED ON: 12/19/24 BY: cm

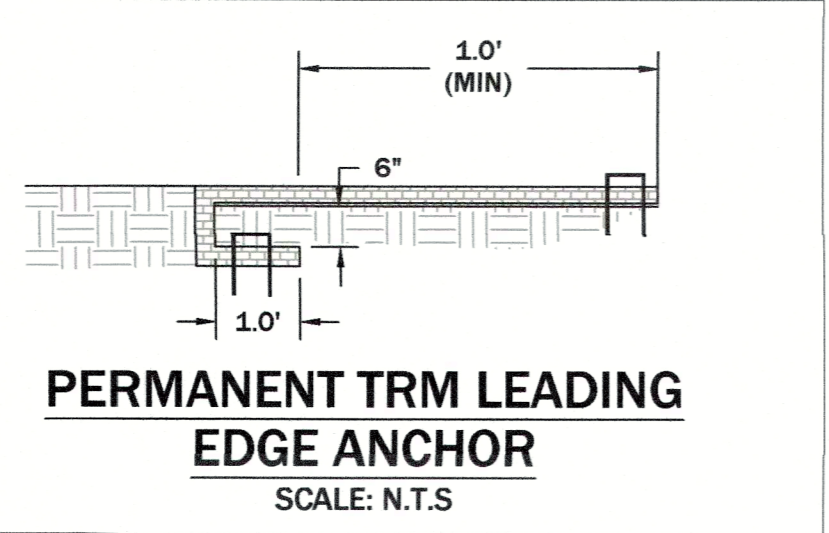
FILE PATH AND FILENAME: O:\CADDFiles\COUNTY OF COLE\LAKEWOOD DR\Drawings\Site-Plan-19.dwg



**PERMANENT TRM TERMINAL ANCHOR TRENCH**  
SCALE: N.T.S



**TYPICAL OVERLAPPING ANCHOR DETAIL**  
SCALE: N.T.S



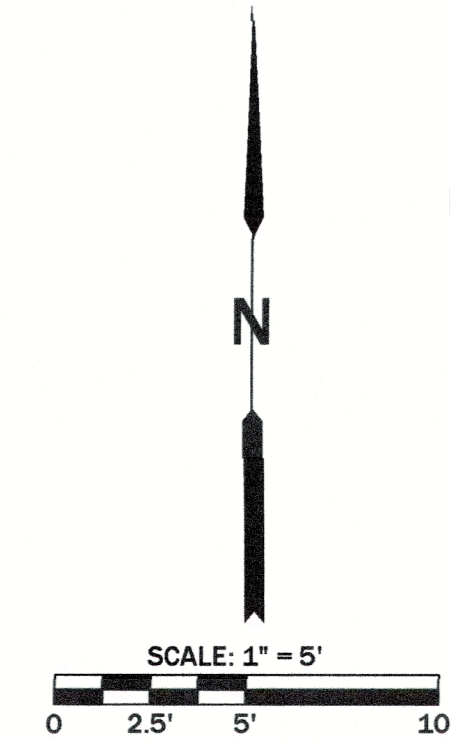
**PERMANENT TRM LEADING EDGE ANCHOR**  
SCALE: N.T.S

- PERMANENT TURF REINFORCEMENT MAT (TRM) NOTES:**
1. ALL INSTALLATION OF PERMANENT TRM SHALL BE IN ACCORDANCE WITH MANUFACTURER PROCEDURES AND FOLLOW THE TYPICAL CONSTRUCTION METHODS.
  2. TYPICAL ROLL WIDTH IS 8 FT WITH OVERLAP OF 6 IN AND THE UPPER MAT MUST BE LAPPED IN THE DIRECTION OF DOWNHILL FLOW.
  3. PERMANENT TRM SHALL BE STAPLED WITH A 10 IN (MINIMUM) WIRE AND A MINIMUM OF 9 STAPLES PER MAT.

**LEGEND:**

- |                                 |                                 |
|---------------------------------|---------------------------------|
| NEW MAJOR 0.5 FT CONTOUR        | EXISTING TREE                   |
| NEW MINOR 0.1 FT CONTOUR        | EXISTING MAIL BOX               |
| EXISTING MAJOR 0.5 FT CONTOUR   | EXISTING TELEPHONE BOX          |
| EXISTING MINOR 0.1 FT CONTOUR   | EXISTING TV BOX                 |
| EXISTING STRUCTURES             | EXISTING ELECTRIC BOX           |
| SANITARY SEWER LINE             | EXISTING WATER METER            |
| UNDERGROUND ELECTRIC LINE       | EXISTING SANITARY SEWER MANHOLE |
| WATER LINE                      | FLOW DIRECTION                  |
| GAS LINE                        | GAS MAIN                        |
| PROPERTY LINE                   | CLEANOUT                        |
| ROADWAY CENTERLINE              | FIRE HYDRANT                    |
| EDGE OF WATER                   | WATER VALVE                     |
| EDGE OF BRUSH                   | CONSTRUCTION STAKING POINT      |
| TEMPORARY CONSTRUCTION EASEMENT |                                 |
| TERMINAL ANCHOR TRENCH          |                                 |

- NOTES:**
1. TOP OF CURB AND STRUCTURE TOP ELEVATIONS GIVEN ARE THEORETICAL AND SUBJECT TO ADJUSTMENT TO COMPLETE TRANSITIONS.
  2. VARIATIONS FROM ELEVATIONS AND GRADE MUST BE APPROVED BY ENGINEER.
  3. CONTRACTOR TO JOINT SEAL EXISTING AND NEW JOINTS BETWEEN NEW AND EXISTING CURB AND GUTTER.
  4. CONTRACTOR TO REMOVE EXISTING CURB BETWEEN POINTS 1025 AND 1015 TO PROMOTE DRAINAGE OFF DRIVEWAY TO TRM.
  5. ALL DISTURBED AREAS OF THE PROJECT NOT SUBJECT TO PAVING SHALL BE SEEDED WITH A BIODEGRADABLE NORTH AMERICAN GREEN® BIONET® S75BN™ EROSION CONTROL BLANKET OR APPROVED EQUIVALENT, OR SODDED.



BY	REVISION DESCRIPTION
BD	REVISE CONSTRUCTION STAKING POINTS

# 1  
DATE 12/13/2024

**STATE OF MISSOURI**  
Professional Engineer Seal for Bruce Dawson, P.E. E-22331, dated 12/19/24.

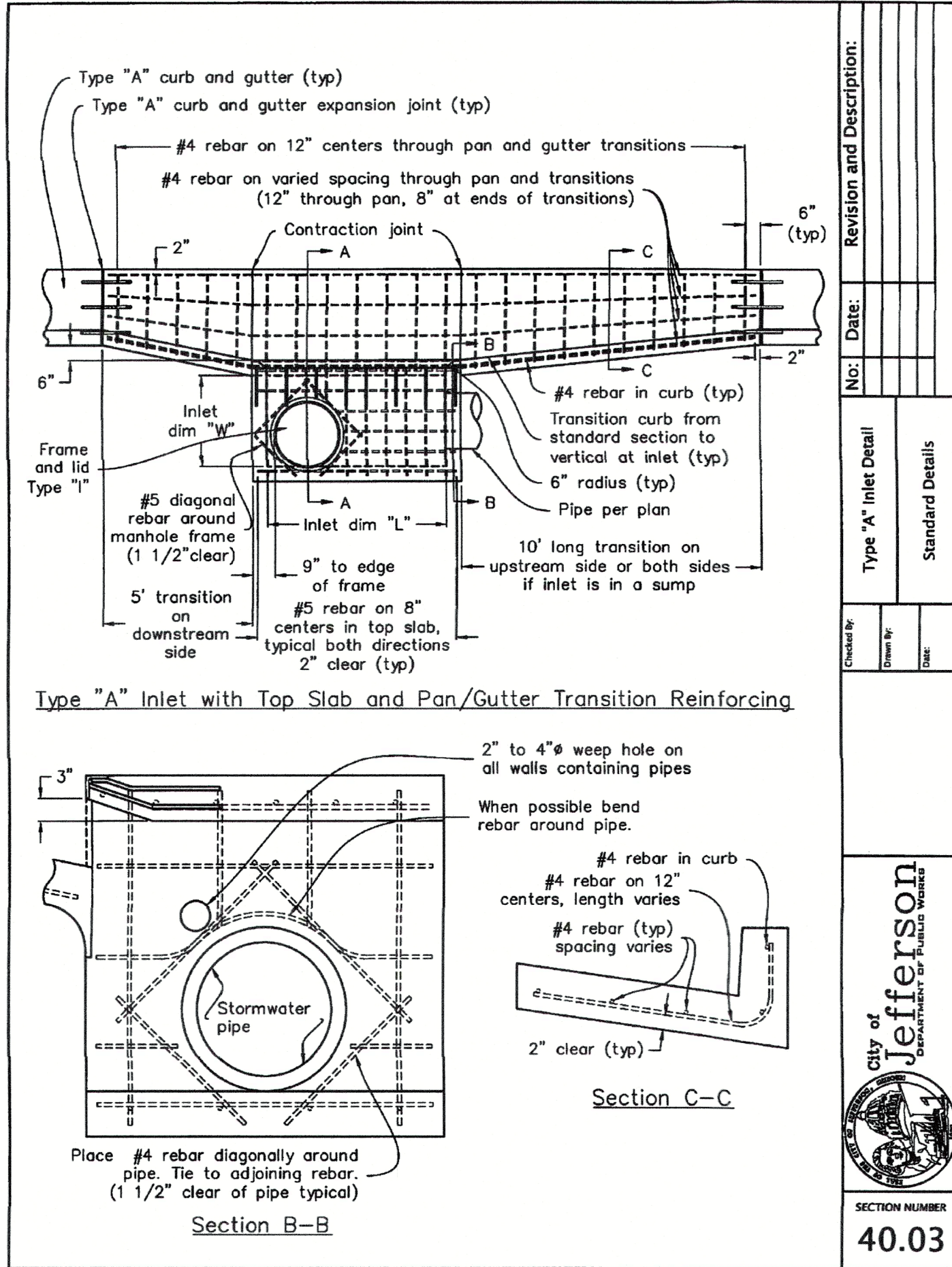
**SHEET 24**  
**SITE IMPROVEMENT**

COUNTY OF COLE  
LAKEWOOD SUBDIVISION  
STORMWATER IMPROVEMENT  
PROJECT NO. 2023-201-1

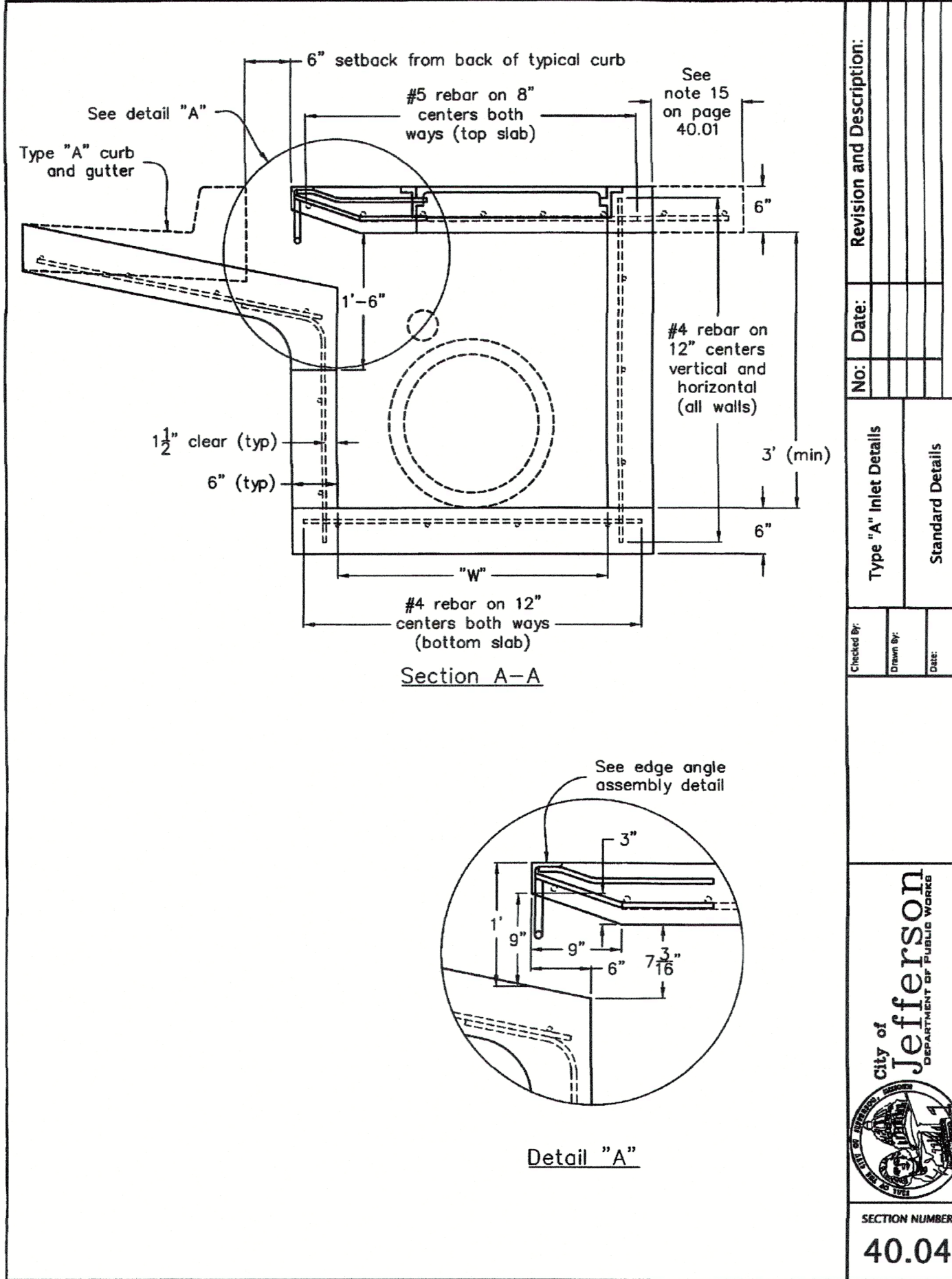
**GREDELL ENGINEERING RESOURCES**  
CIVIL - GEOTECHNICAL - ENVIRONMENTAL - GEOLOGY - EARTH SCIENCES  
1505 East High Street  
Jefferson City, Missouri  
Telephone: (573) 659-9078  
Facsimile: (573) 659-9079  
MO CORP. ENGINEERING LICENSE NO. E-200100166B-D

PROJECT NAME: LAKEWOOD RD  
FILE NAME: Site-Plan-19  
SHEET # 24 OF 27

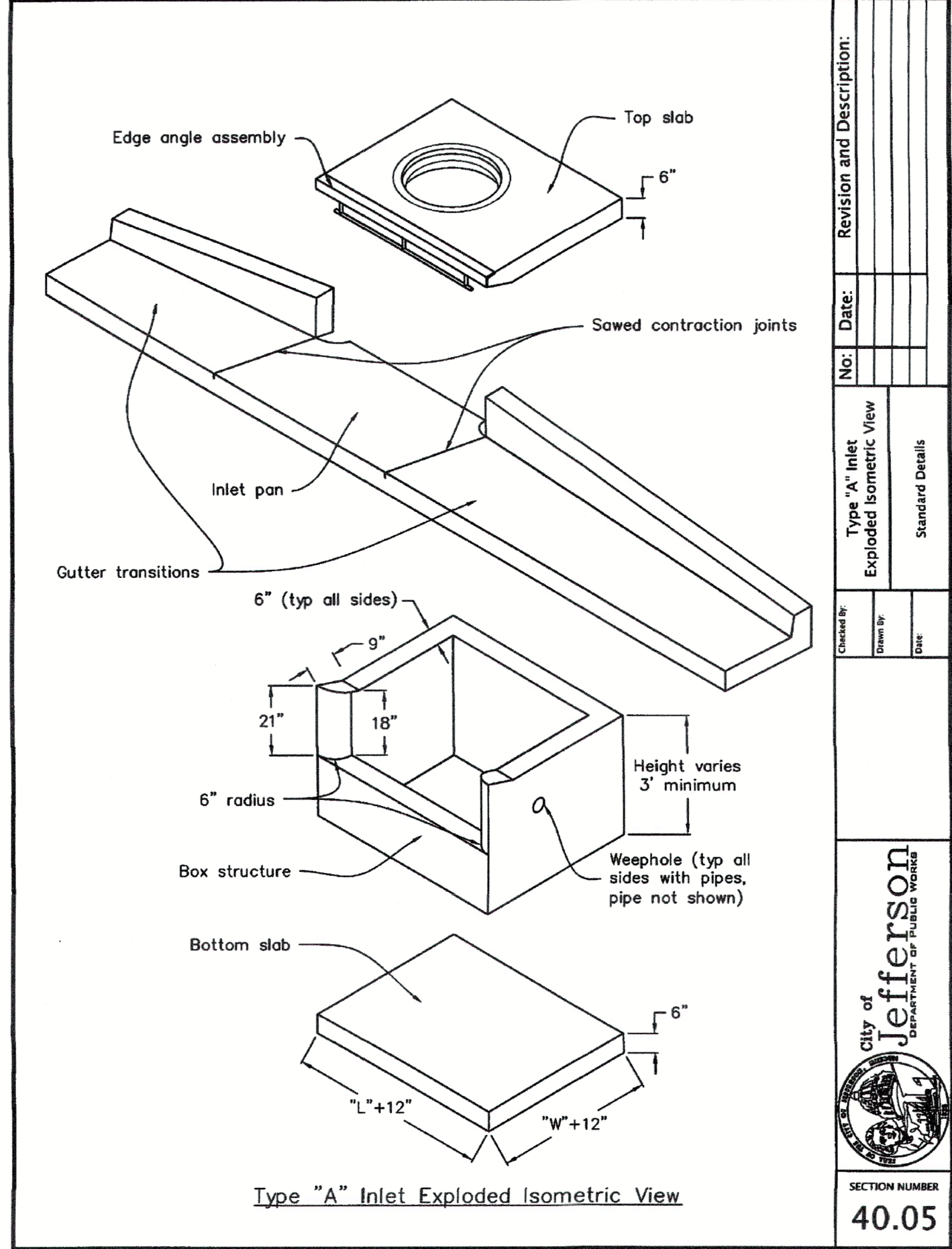




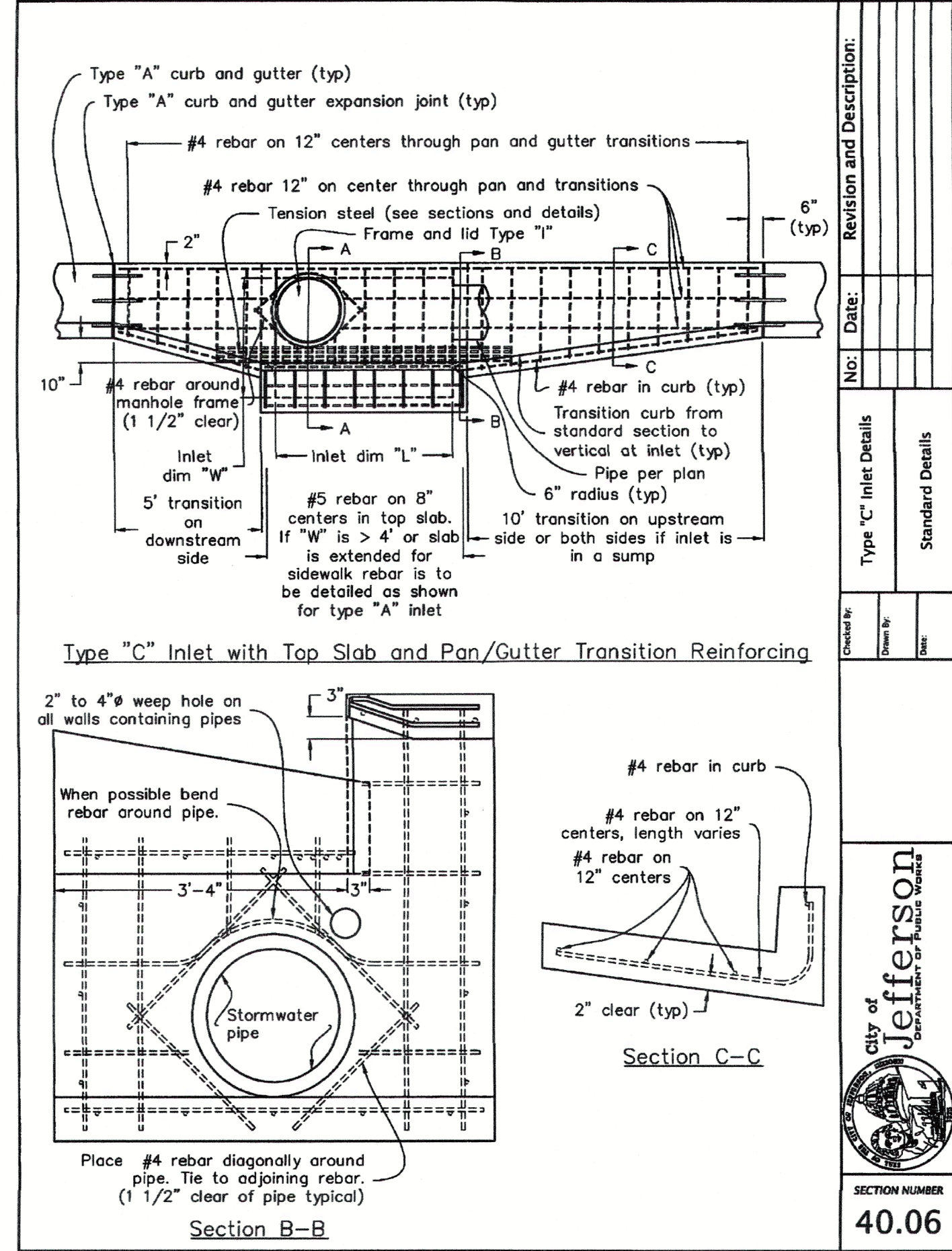
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Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.03



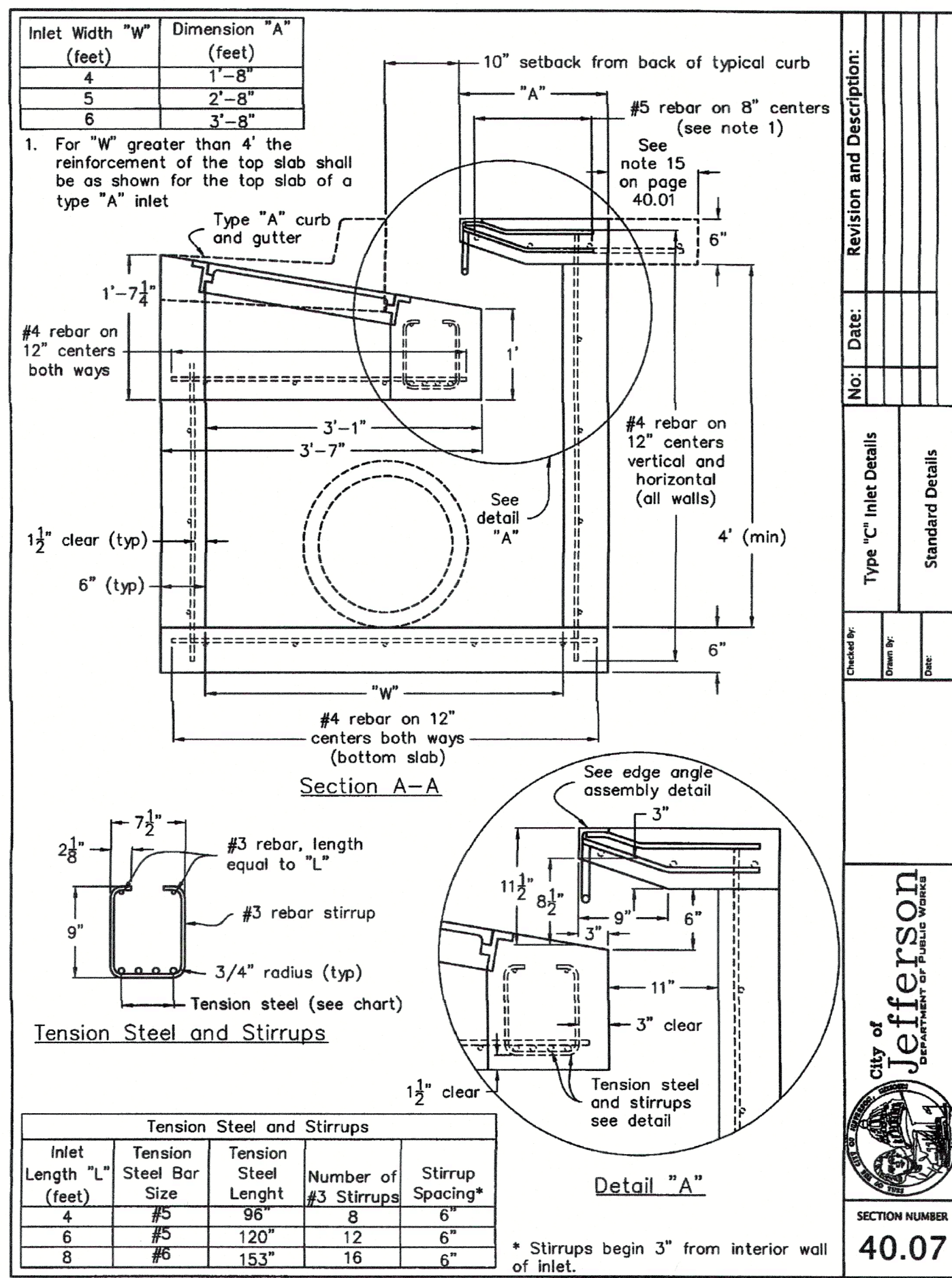
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Scale:	
SECTION NUMBER	40.04



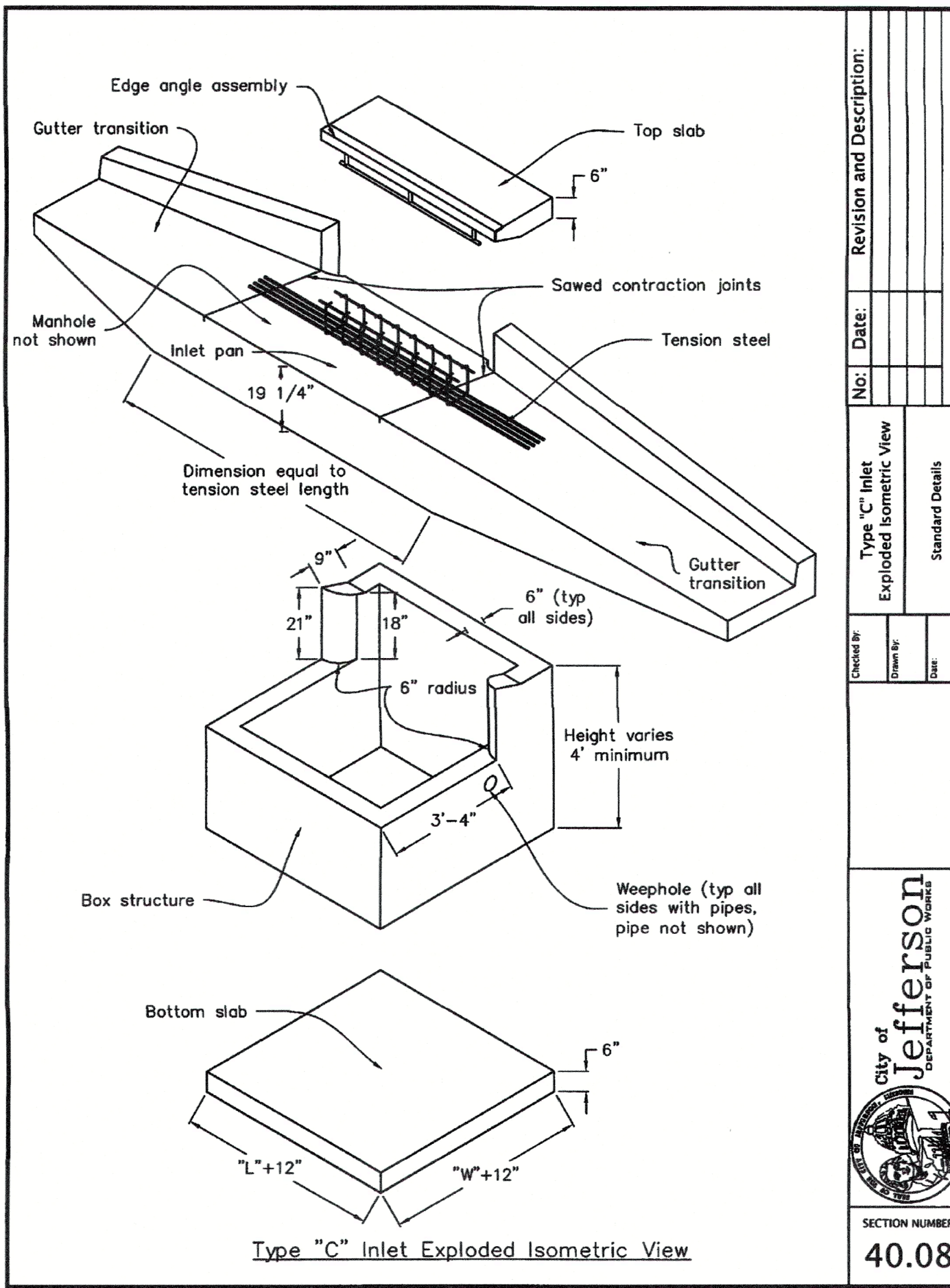
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No.:	Date:
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Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.05



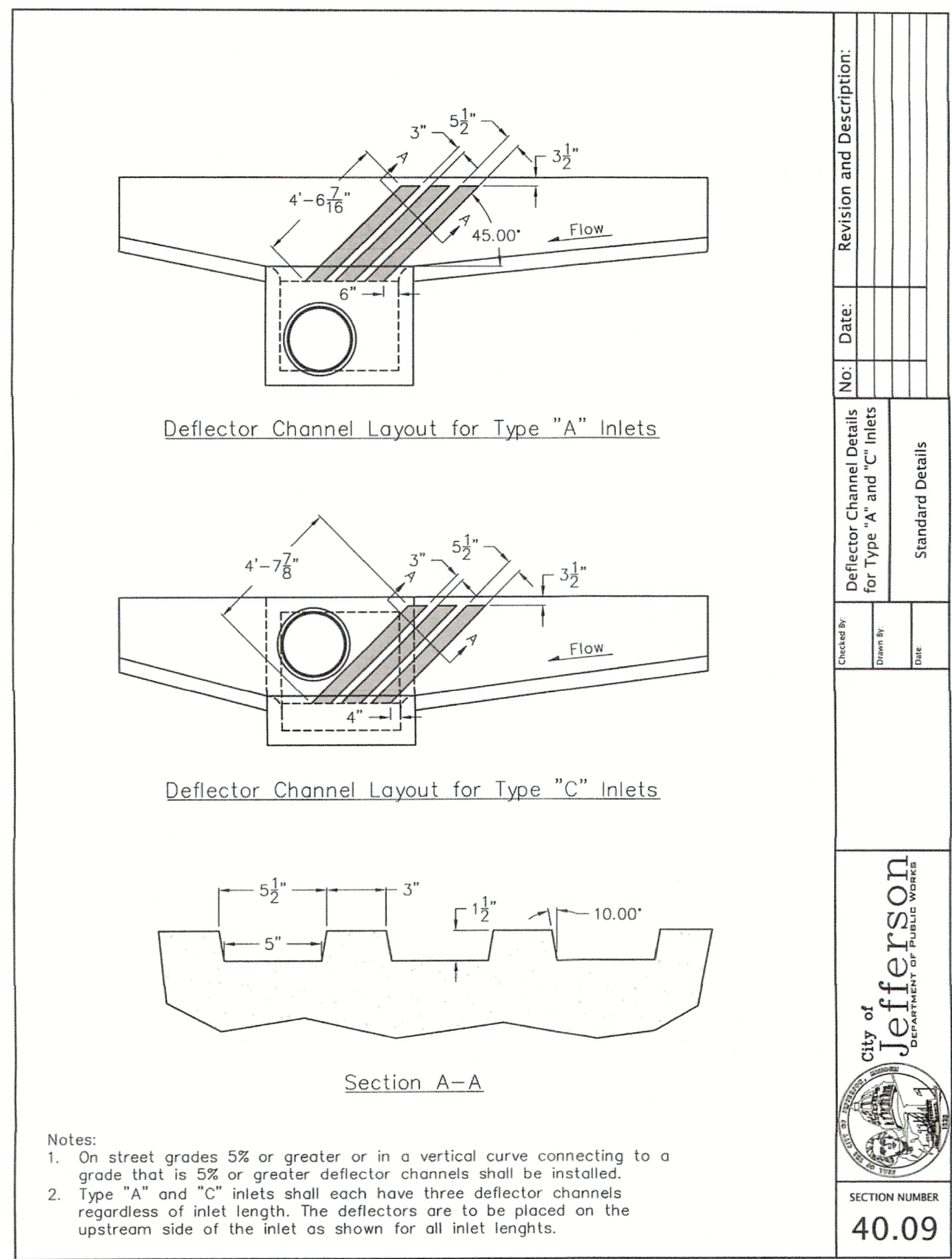
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Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
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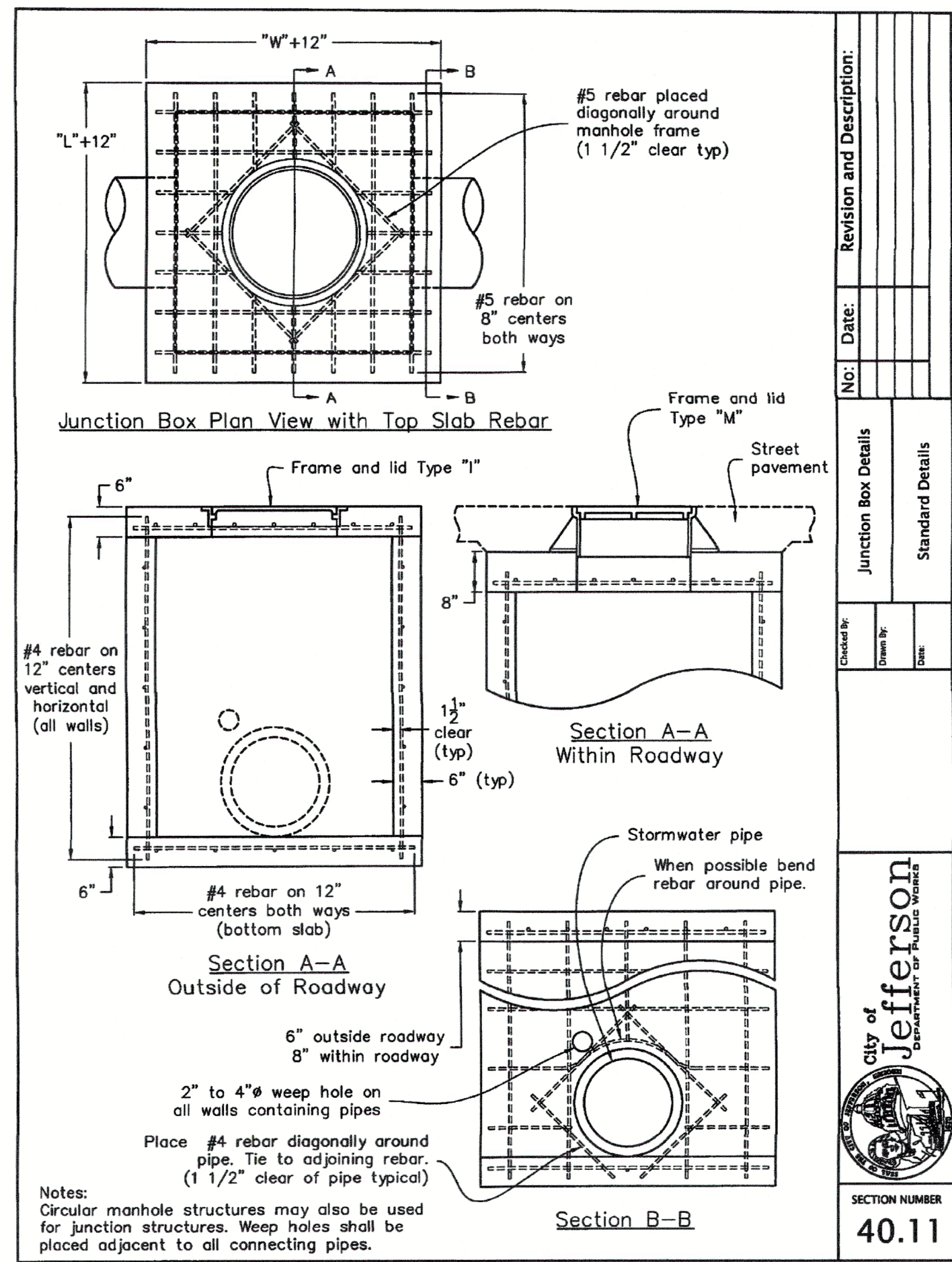
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Type "C" Inlet Details	
Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.07



Revision and Description:	
No.:	Date:
Type "C" Inlet Exploded Isometric View	
Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.08



Revision and Description:	
No.:	Date:
Deflector Channel Details for Type "A" and "C" Inlets	
Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.09



Revision and Description:	
No.:	Date:
Junction Box Details	
Standard Details	
Checked By:	Date:
Drawn By:	Date:
Scale:	
SECTION NUMBER	40.11

COUNTY OF COLE  
LAKEWOOD SUBDIVISION  
STORMWATER IMPROVEMENT  
PROJECT NO. 2023-201-1

BRUCE DAWSON, P.E.  
E-22331

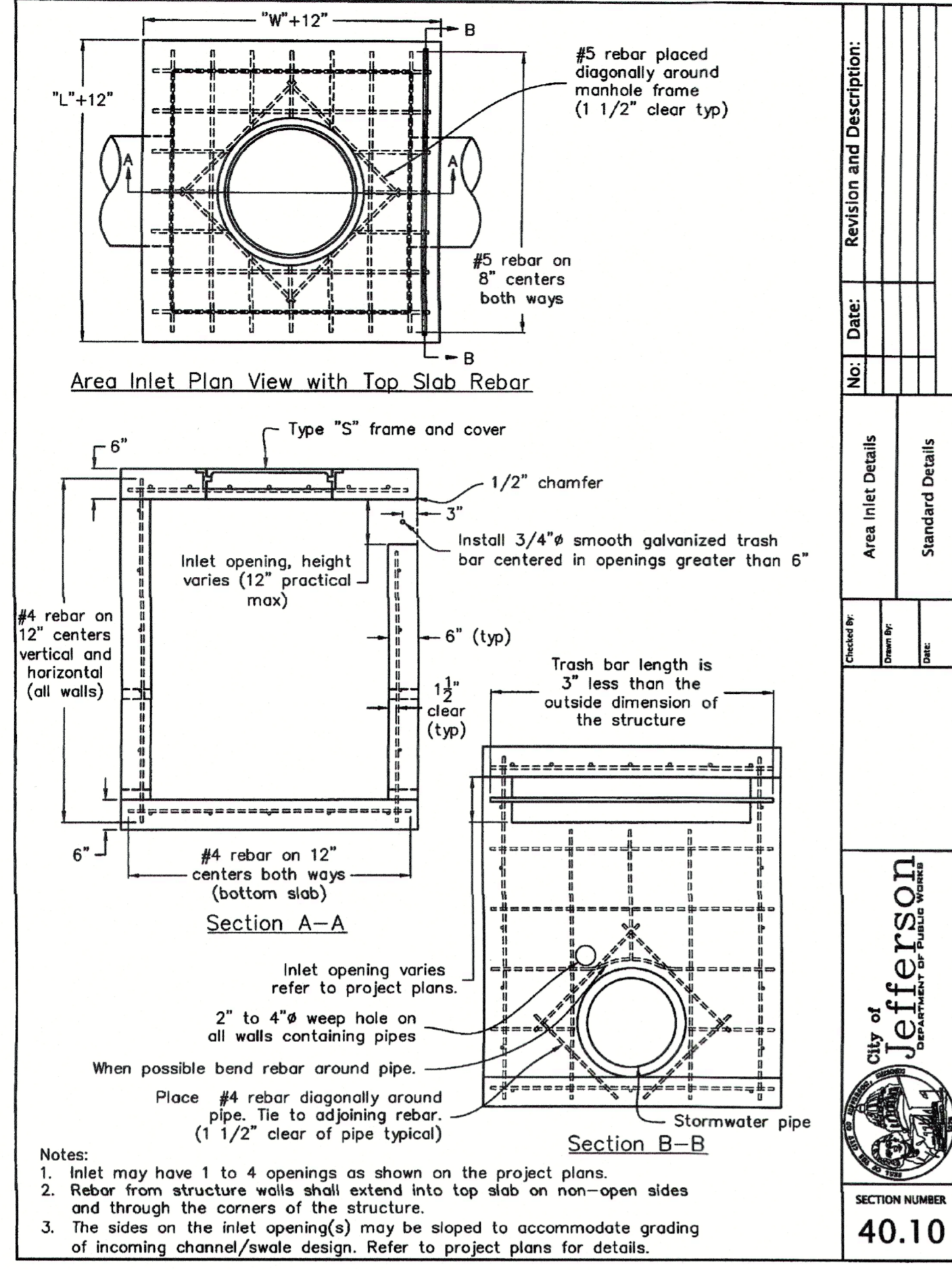
11/22/24

BRUCE DAWSON, P.E.  
E-22331

FILE NAME: Site-Detail-01  
SHEET # 26 OF 27

PROJECT NAME: LAKEWOOD DR  
SCALE: N.T.S.  
DATE: 11/20/24  
DRAWN: MMV  
CHECKED: JJB  
APPROVED: JJB  
SURVEYED: IYA

GREDELL  
ENGINEERING RESOURCES  
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1505 East High Street  
Jefferson City, Missouri  
Facsimile: (573) 659-9079  
MO CORP. ENGINEERING LICENSE NO. E-200101869-D



Revision and Description:	
No.	Date:

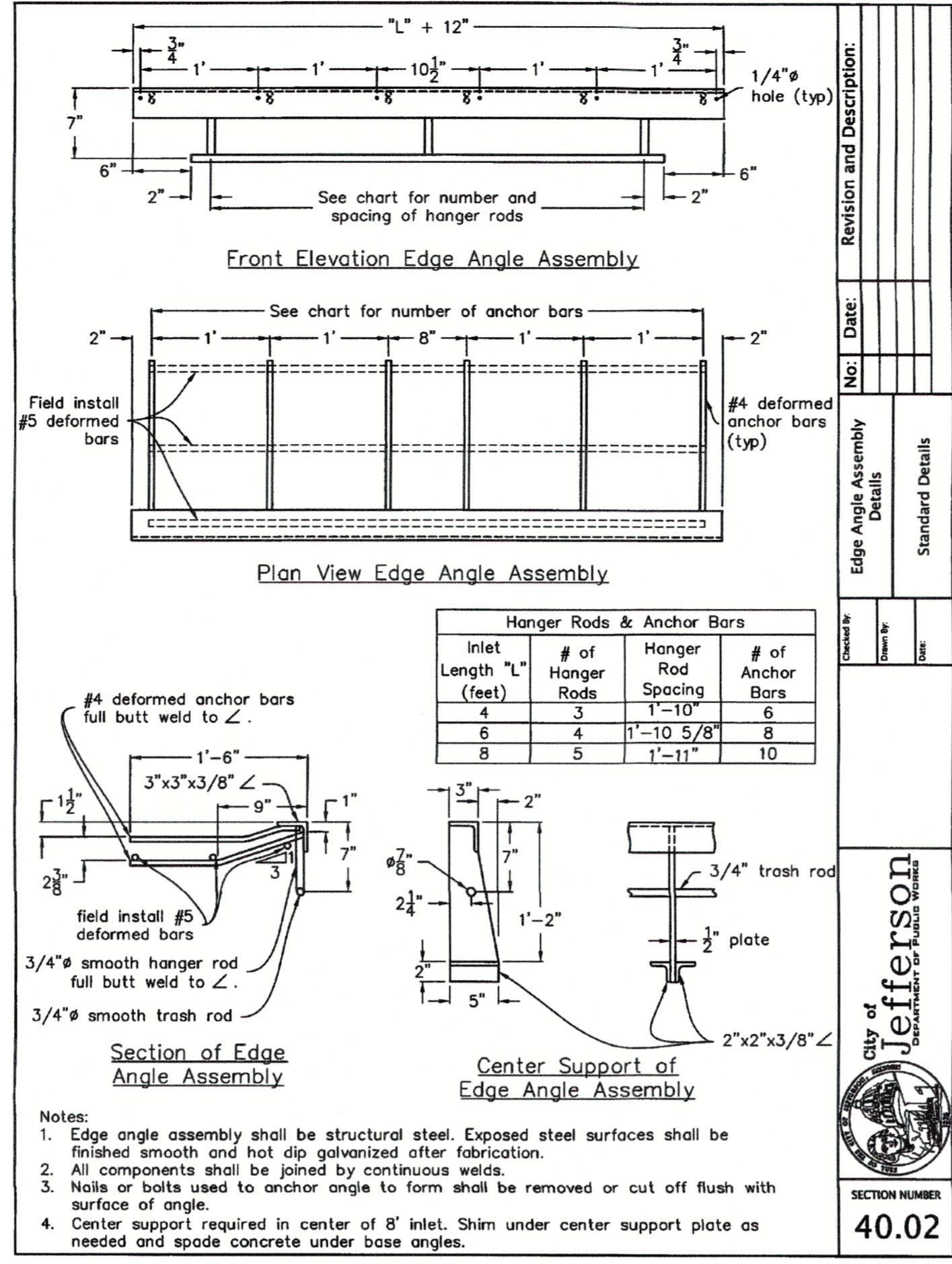
Area Inlet Details	
Checked By:	Date:

Standard Details	
Checked By:	Date:

City of Jefferson	SECTION NUMBER
40.10	



Revision and Description:	
No.	Date:

Edge Angle Assembly Details	
Checked By:	Date:

Standard Details	
Checked By:	Date:

City of Jefferson	SECTION NUMBER
40.02	

