

PLANNING APPLICATION COVER SHEET

PROJECT TYPE: Site Plan

NO. SP26-000005

APPLICATION DATE: 07/06/2026

PROPERTY OWNER: HIGHTOWER DEVELOPMENT INC

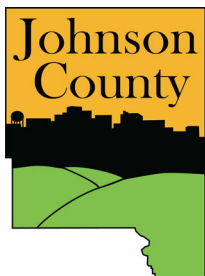
APPLICANT: JON MARNER

WORK DESCRIPTION: Site plan Lots 5 & 6 JoCo 50 Subdivision for a concrete batch plant

SITE ADDRESS:

PROPERTY INFORMATION

Parcel ID (PPN)	Acres in Parcel	Current zoning classification
0304329003	2.03	ML - Light Industrial
0304329002	2.02	ML - Light Industrial



Planning, Development and Sustainability

913 S. Dubuque St. Iowa City, IA 52240

planning@johnsoncountyiowa.gov. 319-356-6083

<https://www.johnsoncountyiowa.gov/pds>



MMS Consultants, Inc.

Experts in Planning and Development Since 1975

1917 S. Gilbert Street
Iowa City, Iowa 52240

319.351.8282

mmsconsultants.net
mms@mmsconsultants.net

July 6, 2026

Mr. Josh Busard
Johnson County Planning Development & Sustainability Dept.
913 S. Dubuque St, Suite 204
Iowa City, IA 52240

RE: Letter of Intent for Lot 5 and Lot 6 Joco 50 - Site Plan

Blake Hershberger Enterprises is planning to construct a new concrete batch plant on Lots 5 and 6, JoCo 50 Subdivision. The proposed main building is 5,691 square feet with two future 4,576 square foot buildings to be constructed after the first building and other site construction has been completed. There are various outdoor storage facilities on site. A solid block screening wall is proposed for the north, west and south sides of the site adjacent to the public and private roadways, and a chain link fence and screening is proposed for the east side of the site to screen for the adjacent property.

The proposed streets known as Ders Drive NW and Canyon Drive NW have been constructed with JoCo 50 Subdivision and access to the concrete batch plans will be one access to each of those roadways. Ders Drive NW and Canyon Drive NW are connected to Highway 965 NW.

The facility is served by water main and sanitary sewer constructed with JoCo 50 Subdivision.

The site includes concrete drive and parking areas for the required parking as shown on the site plan.

Screening and buffering will be provided as shown on the Landscape Plan included in the site plan.

Storm water management for this site is being provided by the storm water management facility constructed with JoCo 50 Subdivision. Runoff from the site will be directed to the ditches along Ders Drive NW and Canyon Drive NW, and drain to the storm water management facility.

There will be no parking lot lighting proposed with the project. Exterior lighting will be mounted to the building exterior to light the areas immediately adjacent to the building.

Archaeological and sensitive areas studies were completed as part of the JoCo 50 Subdivision.

Respectfully submitted,

A blue ink signature of Jon D. Marner.

Jon D. Marner

T:\7396\7396-005\7396-005L1.docx



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1917 S. GILBERT ST.
IOWA CITY, IOWA 52240
(319) 351-8282
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Date Revision

SITE PLAN LOTS 5 AND 6, JOCO 50 SUBDIVISION JOHNSON COUNTY, IOWA



GRAPHIC SCALE IN FEET
1"=30'

PLAT PREPARED BY:
MMS CONSULTANTS INC.
1917 S. GILBERT STREET
IOWA CITY, IA 52240

APPLICANT/OWNER:
BLAKE HERSHBERGER ENTERPRISES
2194 128TH LN
KALONA, IA 52247

C120 SITE LAYOUT AND DIMENSION PLAN
C140 OVERALL GRADING, EROSION CONTROL,
AND SWPPP
C141 DETAILED GRADING PLAN
C160 UTILITY PLAN
C500 GENERAL NOTES AND DETAILS

PAVING LEGEND

7" PCC PAVING WITH
6" SUBBASE
142,162 SF

NOTE: THESE QUANTITIES TAKE INTO
ACCOUNT ALL AREAS SHOWN ON THIS
PLAN SET (INCLUDING WORK WITHIN RIGHT
OF WAYS AND ON ADJACENT PROPERTIES)

LEGAL DESCRIPTION

LOT 5 AND LOT 6, JOCO 50 SUBDIVISION, JOHNSON COUNTY,
IOWA, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 65,
PAGE 296, PLAT RECORDS OF JOHNSON COUNTY, IOWA.

PROPOSAL

APPLICANT INTENDS TO CONSTRUCT A READY-MIX PLANT ON THE
4.05 ACRE SITE.

DEVELOPMENT CHARACTERISTICS

CURRENT ZONING: ML (LIGHT INDUSTRIAL)

SETBACK REQUIREMENTS:

BUILDING SETBACKS: 50 FEET
FRONT YARD 20 FEET
SIDE YARD 50 FEET
REAR YARD 50 FEET

MINIMUM LOT REQUIREMENTS:

MINIMUM LOT SIZE: N/A
AVERAGE LOT WIDTH: N/A
MAXIMUM BUILDING HEIGHT: 35 FEET AND 2 1/2 STORIES

PROPOSED COVERAGE:

LOT AREA: (4.05 AC.) 176,497 SF (100%)
BUILDING AREA (PROPOSED) 17,739 SF (10.1%)
PAVING AREA (PROPOSED) 140,462 SF (79.6%)
GREEN SPACE AREA 18,296 SF (10.3%)

PARKING REQUIREMENTS:

REQUIRED PARKING: 1 SPACE PER 4000 SF OF FLOOR AREA (10,101 SF)
OTHER INDUSTRIAL USE: 3 SPACES
TOTAL PARKING REQUIRED: 11 SPACES
PROVIDED PARKING: 11 SPACES

- ALL LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 8.1.25.G OF THE JOHNSON COUNTY UNIFIED DEVELOPMENT ORDINANCE.
- NO SIGNAGE IS CURRENTLY PROPOSED, ANY FUTURE SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 8.1.25.D OF THE JOHNSON COUNTY UNIFIED DEVELOPMENT ORDINANCE.

STANDARD LEGEND AND NOTES

- PROPERTY &/or BOUNDARY LINES
- CONGRESSIONAL SECTION LINES
- RIGHT-OF-WAY LINES
- EXISTING RIGHT-OF-WAY LINES
- CENTER LINES
- EXISTING CENTER LINES
- LOT LINES, PLATTED OR BY DEED
- PROPOSED EASEMENT LINES
- EXISTING EASEMENT LINES
- BENCHMARK
- RECORDED DIMENSIONS
- CURVE SEGMENT NUMBER
- EXIST- 22-1
- PROP- 22-1
- POWER POLE W/DROP
- POWER POLE W/TRANS
- POWER POLE W/LIGHT
- GUY POLE
- LIGHT POLE
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- DRAINAGE MANHOLE
- CURB INLET
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- EXISTING WATER LINES
- PROPOSED WATER LINES
- ELECTRICAL LINES
- TELEPHONE LINES
- GAS LINES
- CONTOUR LINES (1' INTERVAL)
- PROPOSED GROUND
- EXISTING TREE LINE
- EXISTING DECIDUOUS TREE & SHRUB
- EXISTING EVERGREEN TREES & SHRUBS

THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES
SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH
ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE
APPROVAL OF THIS DOCUMENT.

HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
H1	3414642.91	5419255.02	CUT X NEAR HYDRANT AT SOUTH END OF CUL-DE-SAC BULB ON ANDERSEN AVENUE NW. MMS POINT #858
H2	3413785.25	5418332.27	CUT X ON THE WEST SIDE OF HIGHWAY 965 NW APPROXIMATELY 818' NORTH OF INTERSECTION WITH 120TH STREET NW. MMS POINT #855
H3	3412966.53	5419075.22	CUT X ON THE SOUTH SIDE OF 120TH STREET NW APPROXIMATELY 712' EAST OF INTERSECTION WITH HIGHWAY 965 NW. MMS POINT #851

BENCHMARK INFORMATION

POINT	ELEVATION	DATUM	DESCRIPTION
NO. 1	828.16	NAVD88	CUT X NEAR HYDRANT AT SOUTH END OF CUL-DE-SAC BULB ON ANDERSEN AVENUE NW. MMS POINT #858
NO. 2	797.03	NAVD88	CUT X ON THE WEST SIDE OF HIGHWAY 965 NW APPROXIMATELY 818' NORTH OF INTERSECTION WITH 120TH STREET NW. MMS POINT #855

THE CONTRACTOR SHALL PROVIDE TRAFFIC
CONTROL PER SUDAS STANDARDS AND
SPECIFICATIONS AT ALL TIMES DURING WORK
WITHIN PUBLIC R.O.W.
THE CONTRACTOR SHALL COORDINATE WITH
UTILITY PROVIDERS FOR ANY REQUIRED
RELOCATION OF EXISTING UTILITIES.



UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA
ONE CALL AT 811 OR 800/292-8989
NO LESS THAN 48 HRS. IN ADVANCE
OF ANY DIGGING OR EXCAVATION.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN
THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE
OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR
SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES.
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE
SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE
ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN
OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT
LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE
ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

PLAT/PLAN APPROVED BY:	
JOHNSON COUNTY PDS ADMINISTRATOR	DATE
JOHNSON COUNTY PUBLIC HEALTH DEPT. COORD.	DATE
JOHNSON COUNTY SECONDARY ROADS COORDINATOR	DATE
APPLICANT	DATE

CHRISTOPHER A. THOMPSON
25323

CHRISTOPHER A. THOMPSON, P.E. Iowa Lic. No. 25323

My license renewal date is December 31, 20__.

Pages of sheets covered by this seal:



SEAL

LOTS 5 AND 6
JOCO 50 SUBDIVISION

JOHNSON COUNTY
IOWA

MMS CONSULTANTS, INC.

Date: 07-02-2026

Designed by: CAT Field Book No:

Drawn by: ADP Scale: 1"=30'

Checked by: CAT Sheet No:

Project No: C120

7396-005 of: 1



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Date Revision

SITE PLAN

LOTS 5 AND 6, JOCO 50 SUBDIVISION

JOHNSON COUNTY, IOWA

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C120 SITE LAYOUT AND DIMENSION PLAN
C140 OVERALL GRADING, EROSION CONTROL,
AND SWPPP
C141 DETAILED GRADING PLAN
C160 UTILITY PLAN
C500 GENERAL NOTES AND DETAILS

STANDARD LEGEND AND NOTES	
	PROPERTY &/or BOUNDARY LINES
	CONGRESSIONAL SECTION LINES
	RIGHT-OF-WAY LINES
	EXISTING RIGHT-OF-WAY LINES
	CENTER LINES
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	CONTOUR LINES (1' INTERVAL)
	PROPOSED GROUND
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GRADING AND EROSION CONTROL NOTES

TOTAL SITE AREA: 4.05 ACRES
TOTAL AREA TO BE DISTURBED: 4.05 ACRES

EROSION CONTROL MEASURES SHOWN SHALL BE USED DURING FILL ACTIVITIES. EROSION CONTROL MEASURES SHALL BE REEVALUATED AND MODIFIED, IF NECESSARY, AT THE TIME OF SITE DEVELOPMENT.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES THAT COULD BE USED ON SITE, IF NEEDED, CAN BE FOUND IN APPENDIX D OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BINDER PREPARED FOR THE SITE. IF ADDITIONAL MEASURES ARE USED, INDICATE THE TYPE AND LOCATION OF SAID MEASURE ON THIS PLAN.

CONTRACTOR SHALL INSTALL A ROCK ENTRANCE AND PERFORM REGULAR CLEANING OF VEHICLES THAT LEAVE THE SITE.

FOLLOWING INSTALLATION OF PERIMETER SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE THE CONTRACTOR SHALL CONTACT THE COUNTY INSPECTOR TO SCHEDULE A SITE INSPECTION PRIOR TO ANY SOIL DISTURBING ACTIVITIES.

THE CONTRACTOR SHALL FOLLOW THE NPDES PERMIT, SWPPP, AND THE COUNTY CSR REGULATIONS.

THE EROSION CONTROL CONTRACTOR SHALL INSTALL FILTER SOCKS OR OTHER APPROVED FORM OF INLET PROTECTION AT EACH STREET INTAKE ADJACENT TO THE SITE.

EROSION CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, TEMPORARY ROCK CONSTRUCTION ENTRANCE, CONCRETE WASHOUT, TEMPORARY PARKING AREA, AND STORAGE AREAS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9040 SUDAS STANDARD SPECIFICATIONS.

DUE TO PHASED CONSTRUCTION OF DRIVE AND BUILDING, EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BASED ON THE PHASE AND EXTENTS OF LAND DISTURBANCE.

CONTRACTOR SHALL COORDINATE WITH COUNTY INSPECTORS TO ENSURE THAT NO MATERIAL LEAVES THE SITE, AND THAT ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH JOHNSON COUNTY ENVIRONMENTAL REGULATIONS.

EROSION CONTROL LEGEND

	SILT FENCE/FILTER SOCK		PERIMETER SILT FENCE
	EROSION CONTROL MATTING IN AREAS THAT ARE 4:1 SLOPES		TEMPORARY SOIL STOCKPILE AREA
	TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT		DIRECTION OF OVERLAND FLOW
	TEMPORARY PARKING AND STORAGE		DUMPSTER FOR CONSTRUCTION WASTE. Provide a covered dumpster which is recommended by the City of Iowa City and EPA for construction storm water pollution prevention. See Page 30 of the EPA's Developing Your Storm Water Pollution Prevention Plan, A Guide for Construction Sites, EPA-833-R-06-004, May 2007.
	CONCRETE TRUCK/EQUIPMENT WASHOUT		RIP RAP OUTLET PROTECTION
	PORTABLE RESTROOM. EPA and Iowa DNR both recommend that the unit and area are maintained clean and that the units are regularly emptied.		OTHER MEASURE: _____
	DOCUMENT LOCATION (PERMITS, SWPPP, INSPECTION FORMS, ETC.)		OTHER MEASURE: _____
	FILTER SOCK INLET PROTECTION		OTHER MEASURE: _____
	FILTER SOCK BEHIND CURB AT CURB RAMP		

THE ABOVE LISTED ITEMS ARE SHOWN IN THEIR RECOMMENDED LOCATIONS. IF A CONTROL MEASURE IS ADDED OR MOVED TO A MORE SUITABLE LOCATION, INDICATE THE REVISION ON THIS SHEET. THE BLANKS LEFT FOR OTHER MEASURES SHOULD BE USED IF AN ITEM NOT SHOWN ABOVE IS IMPLEMENTED ON SITE, ADDITIONAL PRACTICES FOR EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN APPENDIX D OF THE SWPPP.

STABILIZATION SEEDING

STABILIZATION SEEDING SHALL BE IN ACCORDANCE WITH SUDAS SECTION 9010.2.02 SEED MIXTURES AND SEEDING DATES.
TABLE 9010.06: TYPE 4 SEED MIXTURE

COMMON NAME	APPLICATION RATE lb/acre
SPRING - MARCH 1 - MAY 20	
ANNUAL RYEGRASS	40
OATS*	65
SUMMER - MAY 21 - AUGUST 14	
ANNUAL RYEGRASS	50
OATS*	95
FALL - AUGUST 15 - SEPTEMBER 30	
ANNUAL RYEGRASS	40
GRAIN RYE	65

* ENGINEER MAY DELETE FOR PREVIOUSLY ESTABLISHED URBAN AREAS.
FERTILIZER SHALL BE APPLIED AT A RATE OF 300 LBS PER ACRE USING CHEMICALLY COMBINED COMMERCIAL 13-13-13 FERTILIZER (SUDAS SECTION 9010.2.03 A.2)

UTILITIES

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OVERALL GRADING,
EROSION CONTROL,
AND SWPPP

LOTS 5 AND 6
JOCO 50 SUBDIVISION

JOHNSON COUNTY
IOWA

MMS CONSULTANTS, INC.

Date: 07-02-2026

Designed by: CAT Field Book No: FIELDBOOK

Drawn by: ADP Scale: 1"=20'

Checked by: CAT Sheet No:

Project No: C140

7396-005 of: 1

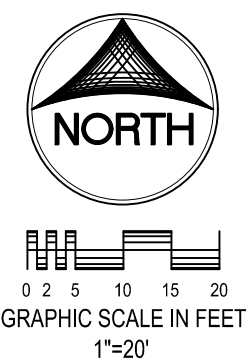
SITE PLAN
LOTS 5 AND 6, JOCO 50 SUBDIVISION
JOHNSON COUNTY, IOWA

PLAT PREPARED BY:
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APPLICANT/OWNER:
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GRADING LEGEND	
● 000.00EX	= EXISTING SURFACE
● 000.00FG	= FINISH GRADE
● 000.00TS	= TOP SLAB
● 000.00TW	= TOP WALK
● 000.00TC	= TOP CURB
● 000.00TR	= TOP RIM
● 000.00WT	= FG AT TOP WALL
● 000.00WB	= FG AT BOTTOM WALL
● 000.00TOP	= TOP OF STEPS
● 000.00BOT	= BOTTOM OF STEPS

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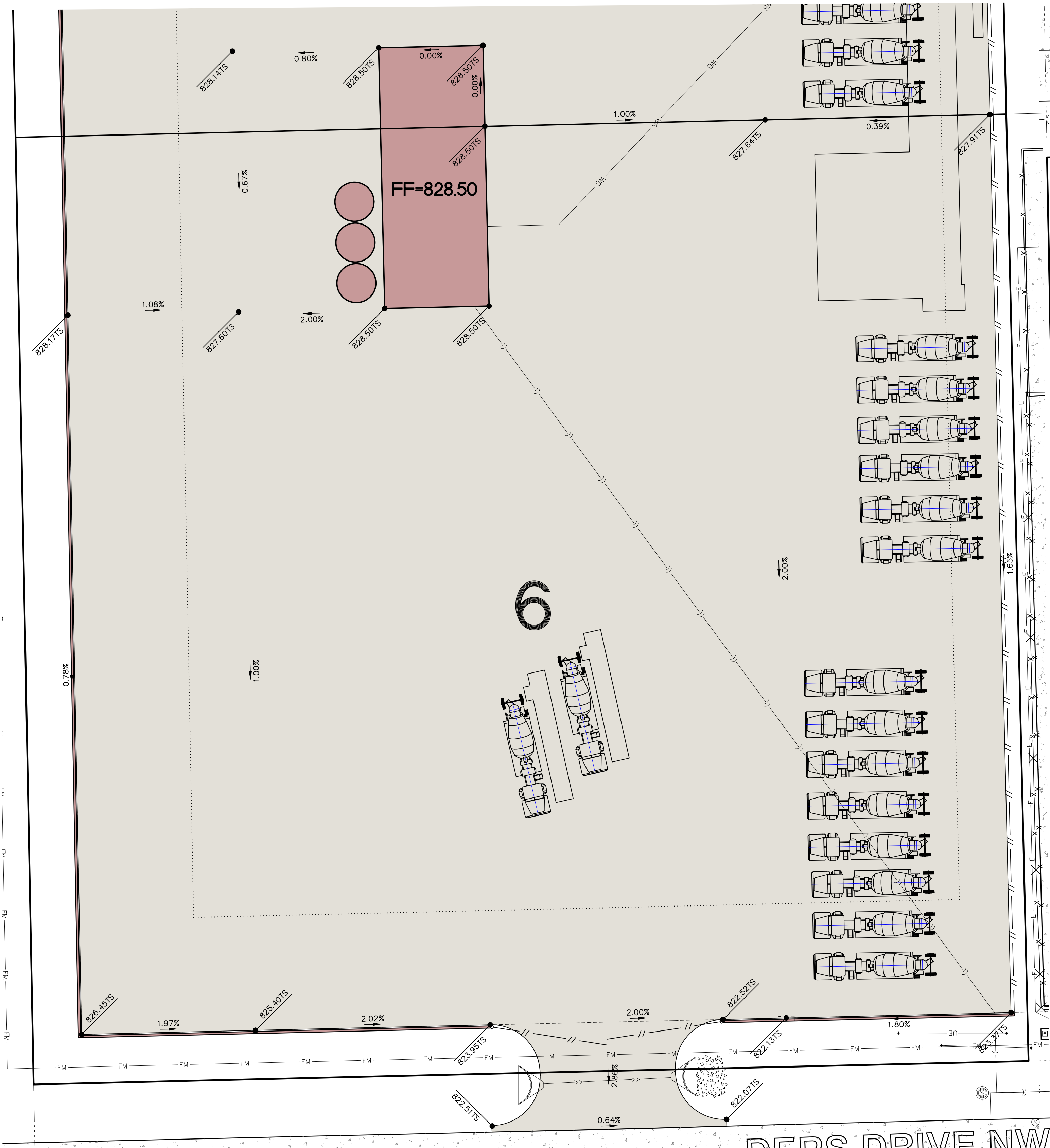


STANDARD LEGEND AND NOTES

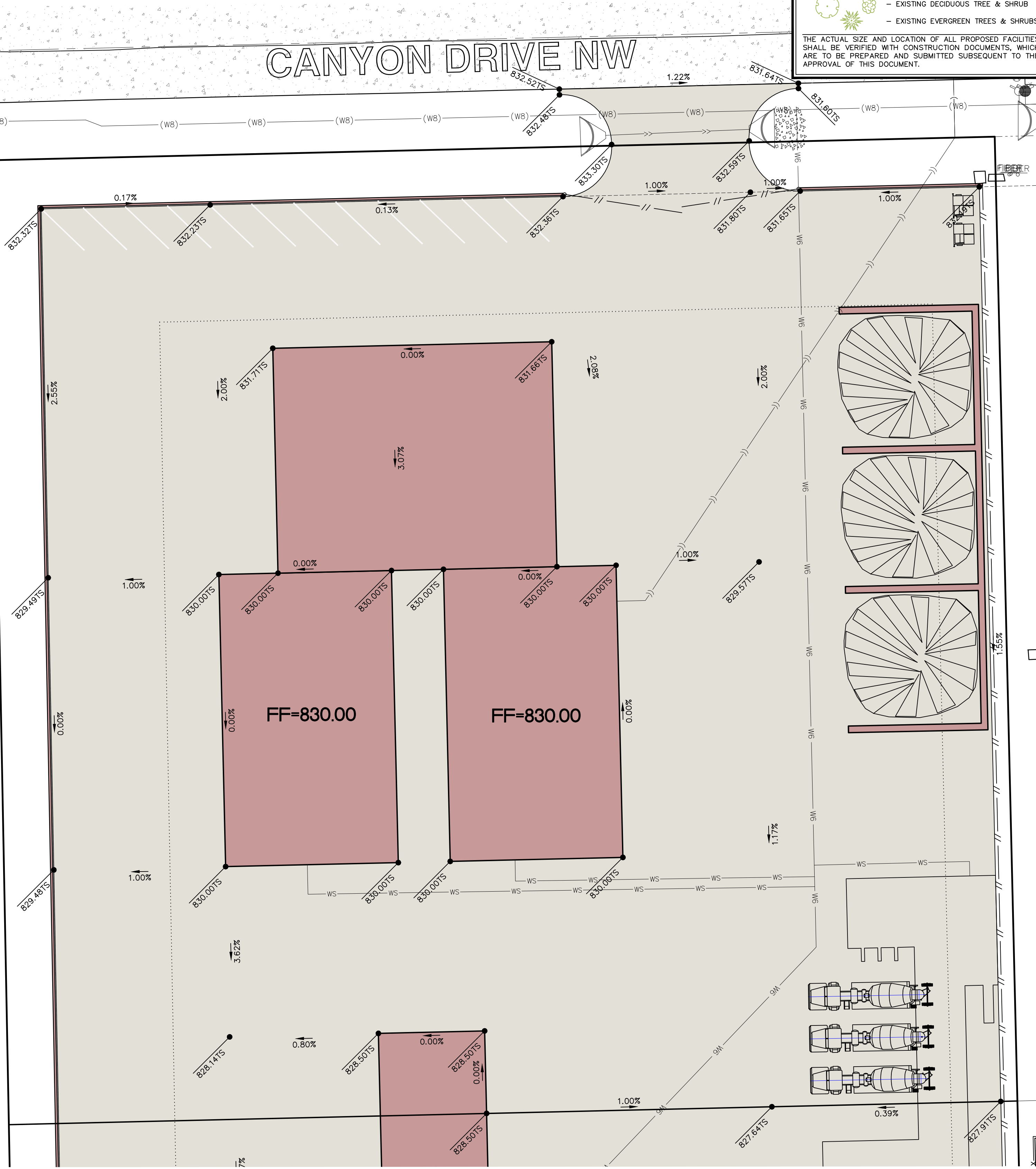
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SOUTH VIEW



NORTH VIEW



PROJAC



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Date Revision

DETAILED GRADING PLAN

LOTS 5 AND 6
JOCO 50 SUBDIVISION

JOHNSON COUNTY
IOWA

MMS CONSULTANTS, INC.

Date: 07-02-2026

Designed by: CAT Field Book No: FIELDBOOK

Drawn by: ADP Scale: 1"=20'

Checked by: CAT Sheet No:

Project No: C141

7396-005 of: 1

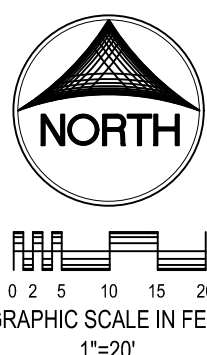
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C120
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SITE LAYOUT AND DIMENSION PLAN
OVERALL GRADING, EROSION CONTROL,
AND SWPPP
DETAILED GRADING PLAN
UTILITY PLAN
GENERAL NOTES AND DETAILS



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NOTE: CONTRACTOR TO CHOOSE WHICH SEWER SERVICE TO INSTALL FOR BUILDING 3

PROJAC



CIVIL ENGINEERS
LAND PLANNERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL SPECIALISTS

1917 S. GILBERT ST.
IOWA CITY, IOWA 52240
(319) 351-8282
www.mmsconsultants.net

Date Revision

UTILITY PLAN

LOTS 5 AND 6
JOCO 50 SUBDIVISION

JOHNSON COUNTY
IOWA

MMS CONSULTANTS, INC.

Date: 07-02-2026

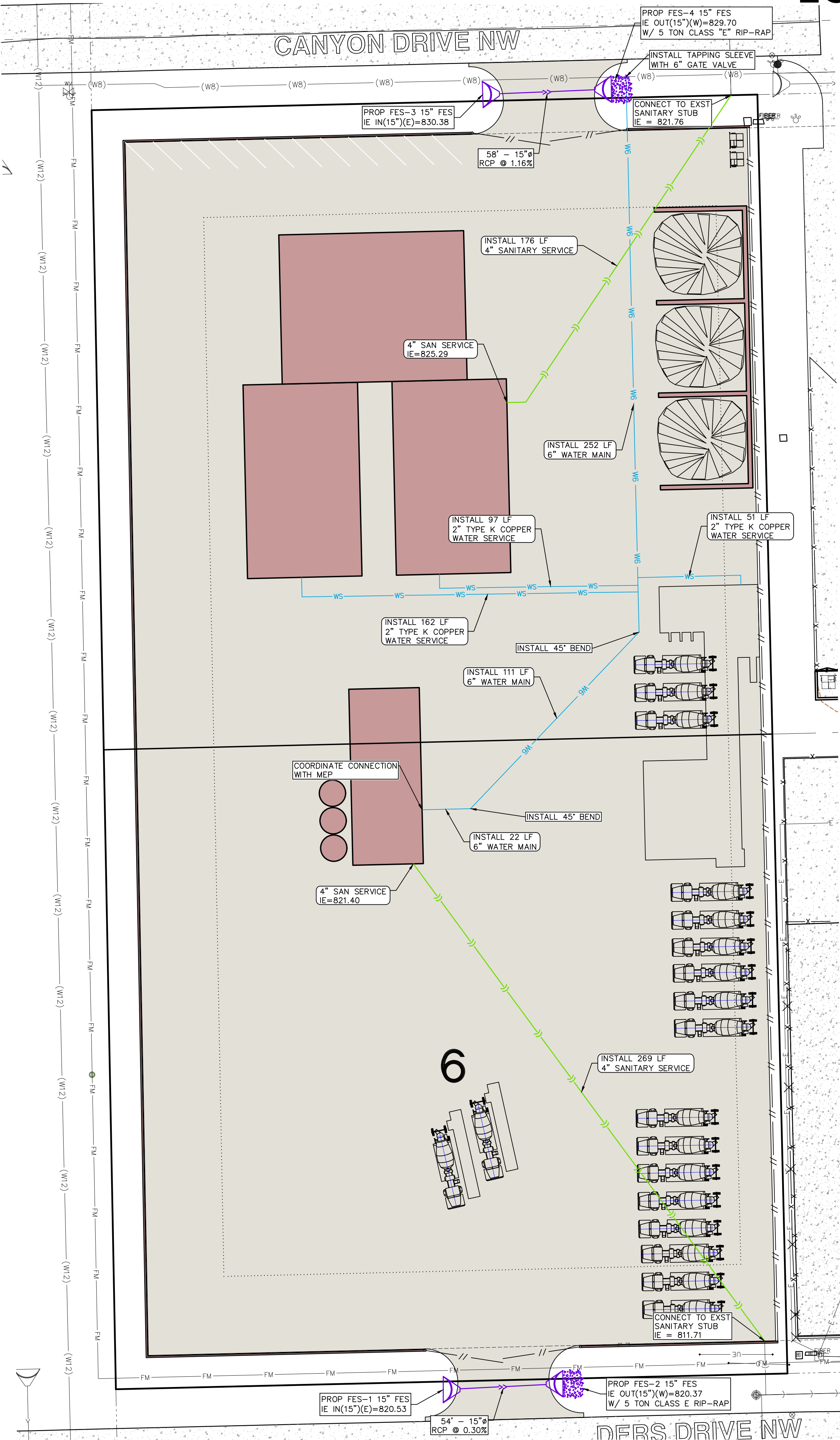
Designed by: CAT Field Book No: FIELDBOOK

Drawn by: ADP Scale: 1"=20'

Checked by: CAT Sheet No:

Project No: C160

7396-005 of: 1



THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER SUDAS STANDARDS AND SPECIFICATIONS AT ALL TIMES DURING WORK WITHIN PUBLIC R.O.W.
THE CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS FOR ANY REQUIRED RELOCATION OF EXISTING UTILITIES.

UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL AT 811 OR 800/292-6989 NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERE TO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.





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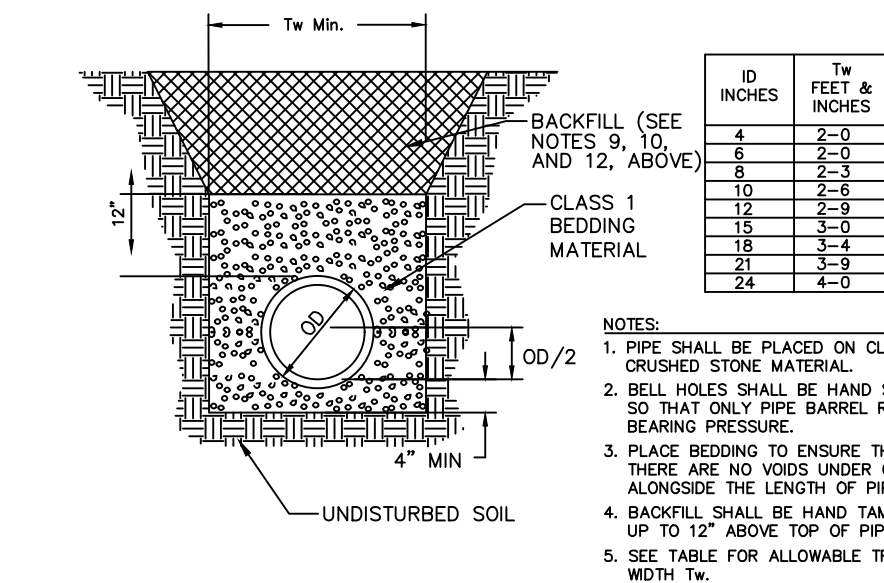
Date	Revision

SANITARY SEWER AND WATERMAIN NOTES

- SANITARY SEWER & WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF CEDAR RAPIDS DESIGN STANDARDS.
- SANITARY SEWERS SHALL BE SDR-26 UNLESS NOTED OTHERWISE. SANITARY SEWER SERVICE LINES SHALL BE PVC SDR-23.5 WITH GASKETED JOINTS.
- CONTRACTOR TO PROVIDE FERNCO "BAND-SEAL" COUPLINGS FOR DISSIMILAR PIPE CONNECTIONS.
- GRANULAR TRENCH BACKFILL SHALL BE CRUSHED STONE CONFORMING TO I.D.O.T. STANDARD SPECIFICATION 4120.04 WITH 1" MAXIMUM AGGREGATE SIZE. COMPACT TO 90% MODIFIED PROCTOR DENSITY.
- ALL SANITARY SEWERS SHADED ON THE PROFILE VIEW AND ALL SANITARY SEWERS AND WATER MAINS UNDER PAVING OR WITHIN 5 FEET OF PAVEMENT SHALL BE BACKFILLED WITH EITHER OF THE FOLLOWING COMPACTED TO 90% MODIFIED PROCTOR DENSITY:
 - SUITABLE EXCAVATED MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, THEN
 - CRUSHED STONE AS SPECIFIED FOR GRANULAR TRENCH BACKFILL.
- ALL SANITARY SEWER SERVICE LINES CROSSING STREET RIGHT-OF-WAY SHALL BE BACKFILLED IN ACCORDANCE WITH THE PRECEDING NOTE.
- CONTRACTOR SHALL PROVIDE SUDAS CLASS R-2 BEDDING FOR ALL ROP SANITARY SEWERS
- SEWER SERVICES TAPPED INTO PVC SEWER MAIN SHALL USE CB SEWER SADDLES WITH STAINLESS STEEL CLAMPS BY ROMAC INDUSTRIES, INC. OR APPROVED EQUAL.

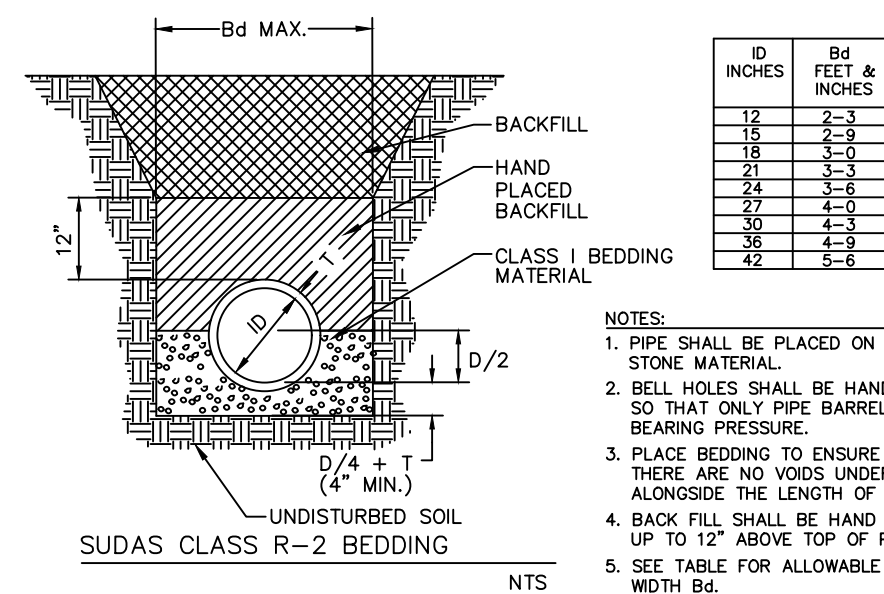
ALL SANITARY SEWER SERVICE LINES SHALL BE EXTENDED :

- DEFLECTION TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
- DEFLECTION TEST TO BE CONDUCTED USING A RIGID BALL OR MANDEL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. NO MECHANICAL PULLING DEVICES ALLOWED.
- NO PIPE SHALL EXCEED A DEFLECTION OF 5%.



ID INCHES	Bd FEET & INCHES
4	2-0
6	2-0
8	2-0
10	2-0
12	2-0
14	2-0
16	2-0
18	2-0
20	2-0
24	4-0

- NOTES:
- PIPE SHALL BE PLACED ON CLASS 1 CRUSHED STONE MATERIAL.
 - BELL HOLES SHALL BE HAND SHAPED SO THAT ONLY PIPE BARREL RECEIVES BEARING PRESSURE.
 - PLACE BEDDING TO ENSURE THAT THERE ARE NO VOIDS UNDER OR ALONGSIDE THE LENGTH OF PIPE.
 - BACKFILL SHALL BE HAND TAMPED UP TO 12" ABOVE TOP OF PIPE.
 - SEE TABLE FOR ALLOWABLE TRENCH WIDTH Tw.



ID INCHES	Bd FEET & INCHES
4	2-0
6	2-0
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 - BACK FILL SHALL BE HAND TAMPED UP TO 12" ABOVE TOP OF PIPE.
 - SEE TABLE FOR ALLOWABLE TRENCH WIDTH Bd.

THE FOLLOWING MINIMUM CLEARANCES MUST BE MAINTAINED :

- WATER MAIN SHALL BE LOCATED 10 FEET HORIZONTALLY DISTANT FROM ALL SANITARY SEWER AND STORM SEWER.
- WATER MAIN SHALL NOT PASS THROUGH NOR CONTACT A SEWER OR A SEWER MANHOLE. A MINIMUM HORIZONTAL SEPARATION OF 3 FEET SHALL BE MAINTAINED.
- VERTICAL SEPARATION OF WATER MAINS CROSSING OVER ANY SANITARY SEWER SHOULD BE A MINIMUM OF 18-INCHES. MEASURED OUTSIDE TO OUTSIDE FROM THE CLOSEST EDGE OF EACH PIPE. IF PHYSICAL CONDITIONS PROHIBIT THIS SEPARATION, THE WATER MAIN SHALL NOT BE PLACED CLOSER THAN 6-INCHES ABOVE A SEWER OR 18-INCHES BELOW A SEWER. THE SEPARATION DISTANCE SHALL BE THE MAXIMUM FEASIBLE IN ALL CASES.
- WHERE THE WATER MAIN CROSSES SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER. THE WATER AND SEWER PIPES MUST BE ADEQUATELY SUPPORTED AND HAVE WATER TIGHT JOINTS. A LOW PERMEABILITY SOIL SHALL BE USED FOR BACKFILL MATERIAL WITHIN 10-FEET OF THE POINT OF CROSSING.
- NOMINAL DEPTH OF WATER MAIN = 5.5 FEET TO TOP OF PIPE.
- WATER MAIN SHADED ON PLAN VIEW SHALL BE INSTALLED PRIOR TO PAVING.
- THE WATER MAIN SHALL BE TESTED ACCORDING TO THE CEDAR RAPIDS GENERAL SUPPLEMENTAL SPECIFICATIONS TO THE SUDAS SPECIFICATIONS. SERVICE TAPS SHALL ONLY BE PERMITTED AFTER WATER MAIN PASSES ALL TESTS.
- WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SPECIFICATIONS.
- FIRE HYDRANTS SHALL BE ACCORDING TO SECTION CR-5010 OF THE CEDAR RAPIDS GENERAL SUPPLEMENTAL SPECIFICATIONS TO THE SUDAS SPECIFICATIONS AND SHALL OPEN RIGHT.
- BED WATER MAIN ON NATIVE MATERIAL, DIG IN BELLS, AND BACKFILL WITH SUITABLE MATERIAL.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS, OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THOSE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHER FACILITIES IN THE CONSTRUCTION AREA, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN HEREON. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION, AND TO AVOID DAMAGE THEREOF. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

CITY OF CEDAR RAPIDS STANDARD SUDAS PLAN NOTES

DIVISION 1--GENERAL PROVISIONS

- ALL SITE CONSTRUCTION SHALL BE ACCORDING TO THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) PROGRAM SPECIFICATIONS. A COPY OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) PROGRAM SPECIFICATIONS REFERENCED IN THESE PLANS CAN BE FOUND AT <http://www.iowasudas.org/>.
- IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- THE CITY OF CEDAR RAPIDS IS RESPONSIBLE FOR INSPECTION WITHIN THE PUBLIC RIGHT-OF-WAYS. INSPECTIONS FOR PUBLIC WATER MAIN EXTENSIONS AND WATER SERVICES SHALL BE PROVIDED BY THE UTILITIES DEPT.
- INSPECTIONS FOR OTHER PUBLIC IMPROVEMENTS WILL BE PROVIDED BY THE CEDAR RAPIDS PUBLIC WORKS DEPARTMENT CONSTRUCTION ENGINEERING DIVISION. PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO STARTING CONSTRUCTION.
- PLEASE REFER TO SUDAS 1070 2.07 FOR GENERAL UTILITY NOTES, ABANDONED UTILITIES NOT SHOWN ON THE PLANS MAY EXIST WITHIN THE CONSTRUCTION LIMITS. IF ENCOUNTERED, CONTRACTOR SHALL CONFIRM SAID UTILITIES ARE ABANDONED. CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE LINES AS NECESSARY FOR CONSTRUCTION.
- CONTRACTOR SHALL VERIFY SANITARY AND STORM SEWER PIPE SIZES AND INVERTS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MANHOLES AND/OR PIPE.
- CONTRACTOR SHALL REPAIR ALL FIELD/DRAIN TILES ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED OR AT A MINIMUM TO ALLOW FLOW USING LIKE MATERIAL IN NEW CONDITION WITH CITY APPROVED CONNECTIONS.
- CONTRACTOR SHALL RECORD EXISTING TIE SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE CITY FOR INCORPORATION INTO RECORD DRAWINGS.
- CONTRACTOR SHALL NOT STORE EQUIPMENT AND/OR MATERIALS WITHIN PUBLIC RIGHT-OF-WAY ON DRIVEWAYS OR ALLEYS OPEN TO TRAFFIC. CONTRACTOR SHALL PROVIDE AREAS AS NEEDED FOR STORAGE OF EQUIPMENT AND/OR MATERIALS.
- CONTRACTOR SHALL ASSIST THE CITY INSPECTOR WITH DAILY RECORD KEEPING INCLUDING DOCUMENTING ALL NECESSARY FIELD LOCATIONS AND MEASUREMENTS.

DIVISION 5--WATER NOTES 1-4-2021:

- ALL PERMITS SHALL BE SECURED AND FEES SHALL BE PAID PRIOR TO START OF CONSTRUCTION.
- WATER INSPECTION AND WORK ORDER REQUESTS; CONTACT WATER ENGINEERING AT: CALL: 319-286-5950 OR E-MAIL: WATER-ENGINEERING-ADMIN@CEDAR-RAPIDS.ORG
- FIVE (5) DAYS NOTICE REQUIRED PRIOR TO STARTING WATER CONSTRUCTION
- WATER PROJECT START-WORK ORDER
- 24-HOUR MINIMUM NOTICE REQUIRED TO SCHEDULE WATER SUPPLY INTERRUPTION
- WATER TAP WORK ORDER
- FILL & FLUSH WORK ORDER
- BACTERIA TESTING WORK ORDER
- PRESSURE TESTING WORK ORDER
- OTHER WATER SYSTEM RELATED SERVICES
- THE CONTRACTOR IS REQUIRED TO NOTIFY IOWA ONE CALL (1-800-292-8989) NOT LESS THAN 48 HOURS PRIOR TO EXCAVATION, EXCLUDING WEEKENDS AND LEGAL HOLIDAYS.
- CONSTRUCTION OF PUBLIC AND PRIVATE WATER SYSTEM IMPROVEMENTS REQUIRES AN APPROVED PLAN SET ON FILE AT THE CEDAR RAPIDS WATER DEPARTMENT ADMINISTRATION BUILDING, LOCATED AT 1111 SHAVER ROAD NE, PRIOR TO RECEIVING START-WORK APPROVAL.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CEDAR RAPIDS WATER DIVISION FOR ANY VARIANCE FROM THE APPROVED PLAN.
- ON SITE INSPECTION OF WATER MAIN INSTALLATION WILL BE PROVIDED BY CEDAR RAPIDS WATER DIVISION. THE WATER DIVISION SHALL OPERATE ALL SYSTEM VALVES AND FIRE HYDRANTS IN CONJUNCTION WITH THE WORK.
- WATER MAIN DESIGN, MATERIALS, INSTALLATION, DISINFECTION, AND TESTING MUST COMPLY WITH CEDAR RAPIDS STANDARD SUPPLEMENTAL SPECIFICATION TO STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND AMERICAN WATER WORKS ASSOCIATION (AWWA) DISINFECTING WATER MAINS STANDARD C651. THIS APPLIES TO ALL PUBLICLY AND PRIVATELY OWNED WATER MAINS AND SERVICE LINES ON THE DISTRIBUTION SIDE OF THE METER. FOR PUBLICLY ACCEPTED IMPROVEMENTS CONSTRUCTED AS PART OF A SUBDIVISION, THE CONTRACTOR SHALL PURCHASE FIRE HYDRANTS AND VALVES FROM THE CITY PER CURRENT POLICY. EXCEPTIONS MUST BE PRE-APPROVED BY CEDAR RAPIDS WATER DIVISION.
- REQUIREMENTS FOR SEPARATION OF WATER MAINS AND SEWERS IS CONTAINED WITHIN THE CEDAR RAPIDS STANDARD SUPPLEMENTAL SPECIFICATION TO SUDAS, SECTION CR-5010 PIPE AND FITTINGS.
- CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL PUBLICLY AND PRIVATELY OWNED WATER MAINS AND FIRE SERVICE LINES IRRESPECTIVE OF WATER MAIN MATERIAL. COMPLY WITH FIGURE CR 5010.102 FOR TRACER WIRE INSTALLATION. ENCASE ALL PIPE, VALVES, AND FITTINGS WITH POLYETHYLENE WRAP ACCORDING TO CEDAR RAPIDS STANDARD SUPPLEMENTAL SPECIFICATION TO SUDAS, SECTION CR-5010 PIPE AND FITTINGS 3.03.
- WATER MAINS AND LARGE SERVICES (3 INCH OR LARGER) OVER 20 FEET IN LENGTH ARE REQUIRED TO BE DISINFECTED, FLUSHED, FILLED AND PRESSURE TESTED IN ACCORDANCE WITH CEDAR RAPIDS STANDARD SUPPLEMENTAL SPECIFICATION TO SUDAS, SECTION CR-5030 TESTING AND DISINFECTION. DO NOT ALLOW HEAVILY CHLORINATED WATER TO REMAIN IN THE PIPELINE FOR MORE THAN 48 HOURS. THOROUGHLY FLUSH CHLORINATED WATER FROM THE PIPELINE UNTIL THE REPLACEMENT WATER WILL BE EQUAL IN QUALITY TO PERMANENT SOURCE OF SUPPLY THROUGHOUT THE LENGTH OF THE PIPELINE. NEUTRALIZE THE CHLORINATED WATER BY TREATING WITH SODIUM BISULFITE, SODIUM SULFITE, SODIUM THIOSULFATE OR EQUAL APPROVED CHEMICAL BEFORE DISPOSAL.
- THE CONTRACTOR IS RESPONSIBLE FOR WATER MAIN FLUSHING OPERATIONS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, VERIFYING PROCEDURES, PROVIDING ADEQUATE PERSONNEL AND EQUIPMENT, OBTAINING APPROVAL TO DISCHARGE INTO STORM OR SANITARY SEWERS, MONITORING SEWERS FOR BACK-UPS, MONITORING FLOW AND DECHLORINATION RESULTS, DISPOSAL OF HIGHLY CHLORINATED WATER SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL CODES.
- UNLESS SPECIFICALLY APPROVED OTHERWISE, ALL LATERAL CONNECTIONS TO EXISTING MAINS (4-INCH OR LARGER) THAT HAVE BEEN PREVIOUSLY TESTED AND TURNED INTO SERVICE SHALL UTILIZE A LIVE TAP WITH AN APPROVED TAPPING SLEEVE OR SADDLE AND VALVE.
- ALL SERVICE TAP MATERIALS ARE TO BE FURNISHED BY THE CONTRACTOR. THE CEDAR RAPIDS WATER DIVISION WILL MAKE TAPS UP TO 12 INCHES USING CONTRACTOR SUPPLIED MATERIALS THAT COMPLY WITH CEDAR RAPIDS STANDARD SUPPLEMENTAL SPECIFICATION TO SUDAS. TAPS LARGER THAN 12 INCHES MUST BE MADE BY QUALIFIED CONTRACTOR WITH WATER DIVISION PERSONNEL ON SITE.
- WARRANTY: FOR THAT PORTION OF THE WATER SYSTEM IMPROVEMENTS THAT ARE TO BE ACCEPTED INTO THE PUBLIC WATER DISTRIBUTION SYSTEM, THE CONTRACTOR SHALL WARRANT THE WORKMANSHIP AND MATERIAL OF THE INSTALLED IMPROVEMENTS FOR A PERIOD OF FOUR (4) YEARS FROM DATE OF ACCEPTANCE AND SHALL FURNISH THE MUNICIPALITY WITH A MAINTENANCE BOND COVERING THE COST OF THE WATER IMPROVEMENTS FOR THAT PERIOD. NO WATER SERVICE SHALL BE PROVIDED PRIOR TO RECEIPT OF THE REQUIRED MAINTENANCE BOND.
- IF INSTALLATION OF A CASING PIPE IS REQUIRED, IT SHALL COMPLY WITH SUDAS STANDARD SPECIFICATIONS, SECTION 5910.2.07E, INCLUDING THE FOLLOWING: INCLUDE CASING SPACERS AND WATERTIGHT MECHANICAL RUBBER END SEALS.
- FOR ANY EXCAVATION WITHIN 6 FEET OF A MARKED LARGE WATER MAIN (16 INCH OR LARGER) THE CONTRACTOR IS REQUIRED TO SCHEDULE STAND-BY WATER DIVISION PERSONNEL FOR THAT WORK. CONTACT WATER ENGINEERING TO SCHEDULE WITH 24-HOUR MINIMUM NOTICE.
- FOR DIRECTIONAL DRILLING CROSSINGS OR INSTALLATIONS WITHIN 6 FEET OF A MARKED LARGE WATER MAIN (16 INCH OR LARGER) THE CONTRACTOR IS REQUIRED TO LOCATE AND EXPOSE (POTHOLE OR VAC EXCAVATE) THE WATER MAIN AND WATER DIVISION ARE TO BE ON SITE DURING THAT WORK. CONTACT WATER ENGINEERING TO SCHEDULE WITH 24-HOUR MINIMUM NOTICE.

DIVISION 8--TRAFFIC CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED TRAFFIC CONTROL PLANS TO THE ENGINEER FOR ALL STAGES OF WORK. WRITTEN NOTICE SHALL BE PROVIDED TO THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ROADWAY CLOSURES AND STAGE TRANSITIONS.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SUDAS SECTION 8030 - TEMPORARY TRAFFIC CONTROL.

DIVISION 9--EROSION CONTROL NOTES

- CONTRACTOR SHALL FURNISH AND MAINTAIN EROSION CONTROL AND WATER QUALITY SYSTEMS PER THE PLAN SWPPP. TO SATISFY THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT, THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS. CONTRACTOR SHALL ALSO PREPARE, PROVIDE, AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN PER SUDAS 9040.

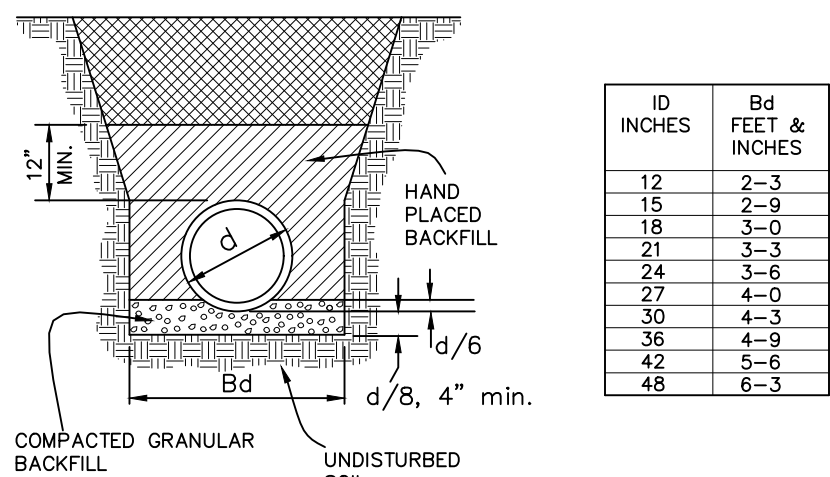
- CONTRACTOR AND ALL SUBCONTRACTORS WORKING ON THE SITE SHALL SIGN THE NPDES PERMIT AS CO-PERMITTEES PRIOR TO CONDUCTING ANY LAND DISTURBING ACTIVITIES ON THE SITE.

- CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL EXISTING AND CONSTRUCTED DRAINAGE CHANNELS AND DRAINAGE STRUCTURES. CONTRACTOR IS LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NECESSARY TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION OR RELATED BID ITEMS.

STORM SEWER NOTES

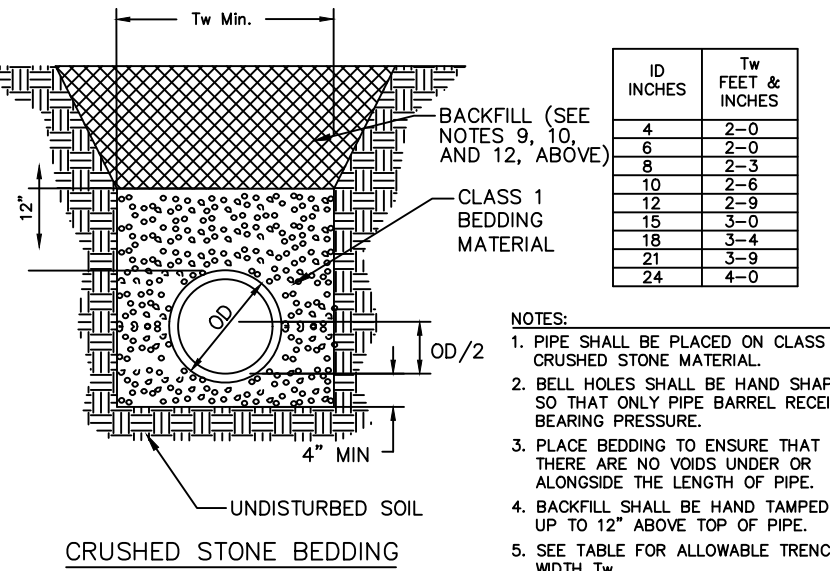
- STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILED SPECIFICATIONS AND DETAILED SPECIFICATION REQUIREMENTS PREPARED FOR THIS PROJECT. JOHNSON COUNTY DESIGN AND CONSTRUCTION STANDARDS AND PROCEDURES SHALL PREVAIL.
- ALL STORM SEWERS SHALL BE CLASS 3 RCP OR ADS N-12 UNLESS NOTED OTHERWISE IN THE PLANS.
- AT PLACES WHERE A FLARED END SECTION IS REQUIRED, PIPE LENGTH INCLUDES THE FLARED END. THE LAST TWO JOINTS ARE TO BE TIED WHERE FLARED END SECTIONS ARE REQUIRED.
- ALL RCP STORM SEWERS SHALL BE PROVIDED WITH CLASS "C" BEDDING, UNLESS NOTED OTHERWISE. ADS N-12 SEWERS SHALL BE PROVIDED WITH CRUSHED STONE ENCASMENT.
- STORM SEWERS SHADED ON THE PROFILE VIEW SHALL BE BACKFILLED WITH EITHER OF THE FOLLOWING COMPACTED TO 95% STANDARD PROCTOR DENSITY:
 - SUITABLE EXCAVATED MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, THEN
 - CRUSHED STONE AS SPECIFIED FOR GRANULAR TRENCH BACKFILL SHALL BE USED.
- GRANULAR TRENCH BACKFILL SHALL BE CRUSHED STONE CONFORMING TO I.D.O.T. STANDARD SPECIFICATION 4120.04 WITH 1" MAXIMUM AGGREGATE SIZE. COMPACT TO 95% STANDARD PROCTOR DENSITY.
- ALL RCP STORM SEWERS SHALL HAVE TONGUE AND GROOVE JOINTS WRAPPED WITH ENGINEERING FABRIC.
- ALL PIPE SHALL BE CERTIFIED.
- ALL STORM INTAKES SHALL BE A MINIMUM OF 48 INCHES FROM TOP OF CURB/RIM TO SUBGRADE. IF INVERT ELEVATIONS ARE INSUFFICIENT TO PROVIDE THIS REQUIRED DEPTH, THE CONTRACTOR TO PROVIDE DEEPER STRUCTURE AND POUR CONCRETE FILLET IN INTAKE TO MAKE INTAKE PIPES DRAIN AT INVERT ELEVATIONS LISTED.
- LIFT HOLES IN STORM SEWER WILL NOT BE ALLOWED.
- MANHOLES SHALL NOT HAVE STEPS
- MANHOLES SHALL HAVE AN EXTERNAL CHIMNEY SEAL BY INFISHIELD UNIBAND, CRETEX, OR APPROVED EQUAL.
- PROVIDE CONCRETE FILLETS IN ALL NEW & EXISTING DRAINAGE STRUCTURES PER REFERENCED DETAILS.
- ALL STORM SEWER STRUCTURES ARE TO BE WATER TIGHT WITH WATER STOP USED IN CONSTRUCTION JOINT AND PENETRATIONS. RISERS SHALL BE LADTCH HOPE RISERS OR CRETEX PRO-RING.
- WALL PENETRATIONS TO BE CIRCULAR BY HOLE SAW, NOT BY CHOP SAW. ALL STRUCTURES REQUIRE CHIMNEY SEALS. RISER AND CHIMNEY PRODUCTS ARE AVAILABLE IN RECTANGULAR CONFIGURATIONS.

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14	2-3
16	2-3
18	2-3
20	2-3
24	4-0
27	4-0
30	4-0
36	4-0
42	5-6
48	6-3

- NOTES:
- PIPE SHALL BE PLACED ON CRUSHED STONE MATERIAL.
 - BELL HOLES SHALL BE HAND SHAPED SO THAT ONLY PIPE BARREL RECEIVES BEARING PRESSURE.
 - PLACE BEDDING TO ENSURE THAT THERE ARE NO VOIDS UNDER OR ALONGSIDE THE LENGTH OF PIPE.
 - BACKFILL SHALL BE HAND TAMPED UP TO 12" ABOVE TOP OF PIPE.
 - SEE TABLE FOR ALLOWABLE TRENCH WIDTH Bd.

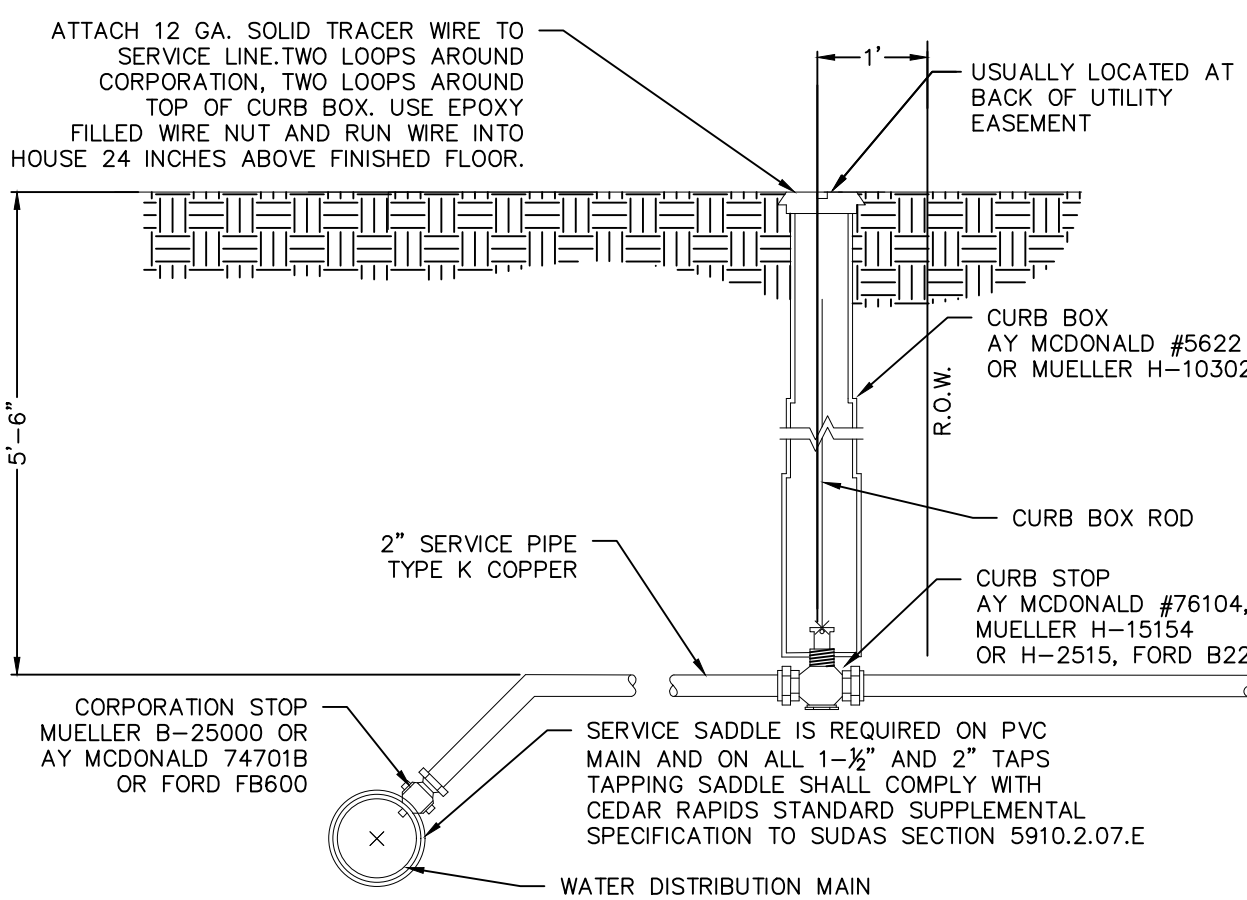


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18	2-0
20	2-0
24	4-0

WATER SERVICE DETAIL

N.T.S.

NOTE: ALL MATERIAL TO BE OF U.S.A. MANUFACTURE



GENERAL NOTES AND DETAILS

LOTS 5 AND 6 JOCO 50 SUBDIVISION

JOHNSON COUNTY
IOWA

MMS CONSULTANTS, INC.

Date: 07-02-2026

Designed by: CAT Field Book No: FIELDBOOK

Drawn by: ADP Scale: NTS

Checked by: CAT Sheet No:

Project No: C500

7396-005 of: 1

C120 SITE LAYOUT AND DIMENSION PLAN
C140 OVERALL GRADING, EROSION CONTROL, AND SWPPP
C141 DETAILED GRADING PLAN
C160 UTILITY PLAN
C500 GENERAL NOTES AND DETAILS