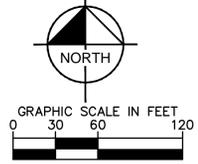
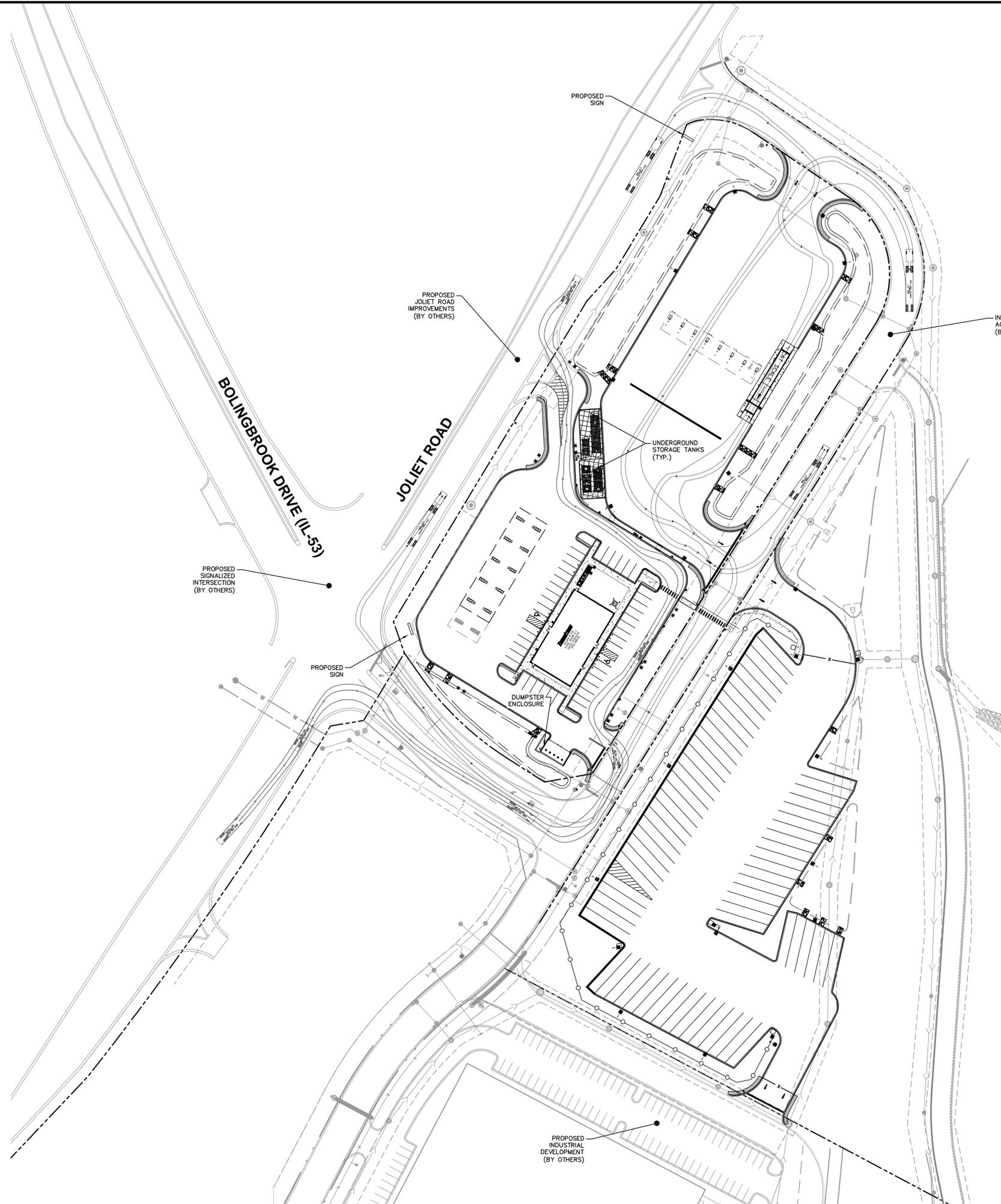


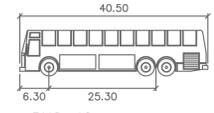
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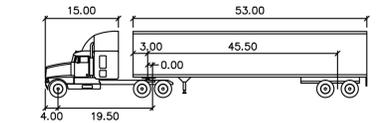


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OVERALL SITE LAYOUT PLAN SHOWN FOR REFERENCE ONLY.



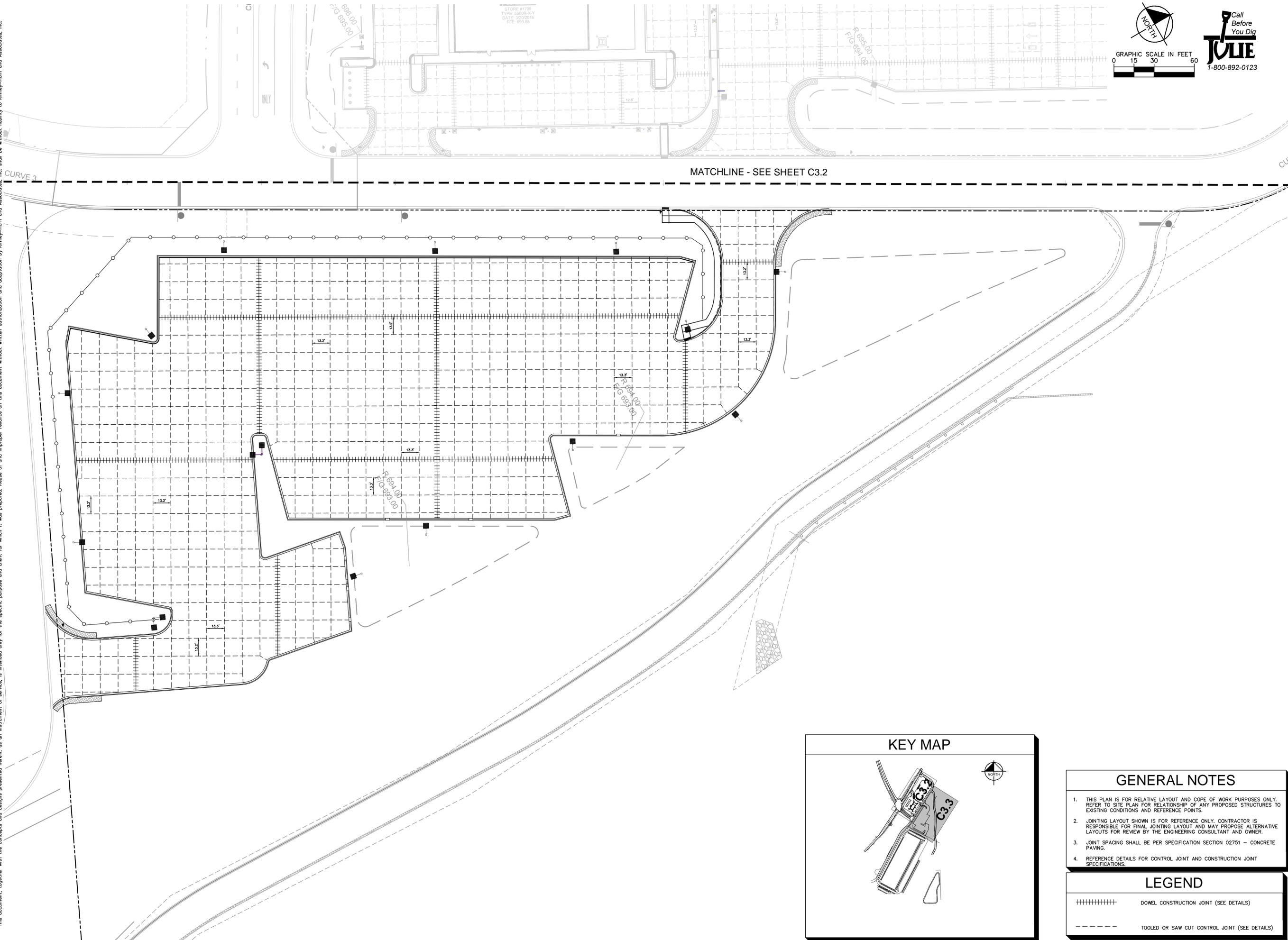
BUS-40 feet
 Width : 6.30
 Track : 25.30
 Lock to Lock Time : 6.0
 Steering Angle : 41.9



WB-67 feet
 Tractor Width : 15.00
 Trailer Width : 3.00
 Tractor Track : 4.00
 Trailer Track : 19.50
 Lock to Lock Time : 6.0
 Steering Angle : 28.4
 Articulating Angle : 75.0

ISSUED FOR BID	DOL	DATE	BY
VILLAGE COMMENTS	JMM	10/2/2017	JMM
VILLAGE COMMENTS	JMM	9/18/2017	JMM
REVISIONS			
NO.			
<p>Kimley»Horn © 2017 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENTONVILLE ROAD, SUITE 350, LEBANON, IL 60532 WWW.KIMLEY-HORN.COM</p>			
SCALE: AS NOTED	DESIGNED BY: DOL	DRAWN BY: RMM	CHECKED BY: JMM
<p>THORNTONS</p>			
<p>OVERALL LAYOUT PLAN</p>			
<p>THORNTONS IL-53 & JOLIET ROAD ROMEOVILLE, IL</p>			
ORIGINAL ISSUE: 06/20/2017			
KHA PROJECT NO. 168359008			
SHEET NUMBER			
<p>C2.0</p>			

Drawing name: K:\GIS_LIBY\168359008_buystone_romeoville\12 Design\CAD\plan sheets\C3.2-C3.3 - JOINTING PLAN.dwg C3.3 Oct 02, 2017 9:09am by: dan.mcauliffe
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

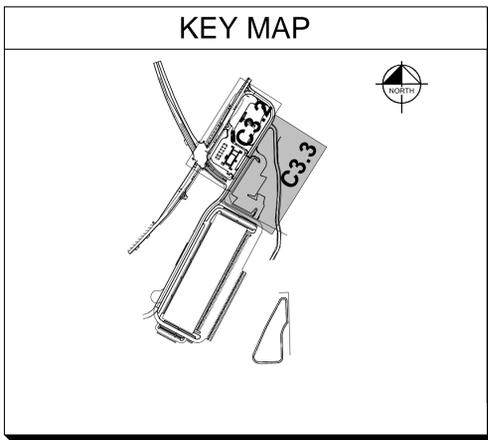


NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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JULIE
1-800-892-0123

MATCHLINE - SEE SHEET C3.2



- GENERAL NOTES**
1. THIS PLAN IS FOR RELATIVE LAYOUT AND COPE OF WORK PURPOSES ONLY. REFER TO SITE PLAN FOR RELATIONSHIP OF ANY PROPOSED STRUCTURES TO EXISTING CONDITIONS AND REFERENCE POINTS.
 2. JOINTING LAYOUT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL JOINTING LAYOUT AND MAY PROPOSE ALTERNATIVE LAYOUTS FOR REVIEW BY THE ENGINEERING CONSULTANT AND OWNER.
 3. JOINT SPACING SHALL BE PER SPECIFICATION SECTION 02751 - CONCRETE PAVING.
 4. REFERENCE DETAILS FOR CONTROL JOINT AND CONSTRUCTION JOINT SPECIFICATIONS.

LEGEND

+++++	DOWEL CONSTRUCTION JOINT (SEE DETAILS)
---	TOOLED OR SAW CUT CONTROL JOINT (SEE DETAILS)

Kimley»Horn	© 2017 KIMLEY-HORN AND ASSOCIATES, INC. 1101 WASHINGTON AVENUE, SUITE 1100 PHOENIX, AZ 85016 WWW.KIMLEY-HORN.COM	ISSUED FOR BID VILLAGE COMMENTS VILLAGE COMMENTS	DDL JMM JMM	DATE 10/2/2017 8/18/2017
SCALE: AS NOTED	DESIGNED BY: DDL	DRAWN BY: RIM	CHECKED BY: JMM	NO.
THORNTONS				
THORNTONS				
IL-53 & JOLIET ROAD JOINTING PLAN (EAST)				
ROMEIOVILLE, IL				
ORIGINAL ISSUE: 06/20/2017				
KHA PROJECT NO. 168359008				
SHEET NUMBER				
C3.3				

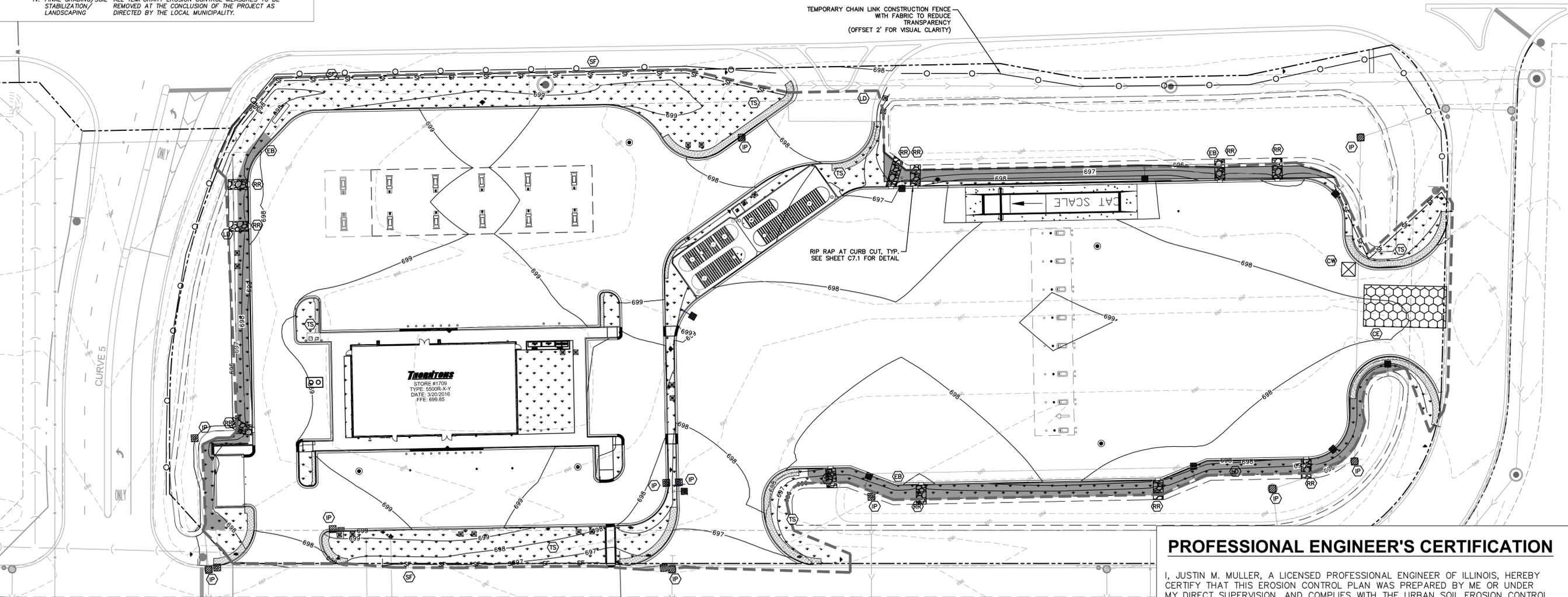
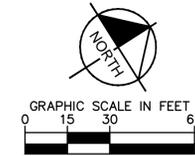
EROSION CONTROL SCHEDULE AND SEQUENCING:

- I. ROUGH GRADING CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, CONCRETE WASHOUT AREA AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. TEMPORARY EROSION CONTROL MEASURES TO BE INSTALLED UPON COMPLETION OF ROUGH GRADING AND AS NECESSARY THROUGHOUT CONSTRUCTION.
- II. UTILITY INSTALLATION ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. STORM STRUCTURE INLET PROTECTION SHALL BE INSTALLED AS STORM DRAINAGE SYSTEM IS CONSTRUCTED.
- III. PAVING ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
- IV. FINAL GRADING/SOIL STABILIZATION/LANDSCAPING ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE LOCAL MUNICIPALITY.

LOOK TO THE LEFT (IL-53)

JOLIET ROAD

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TEMPORARY CHAIN LINK CONSTRUCTION FENCE WITH FABRIC TO REDUCE TRANSPARENCY (OFFSET 2' FOR VISUAL CLARITY)

RIP RAP AT CURB CUT, TYP. SEE SHEET C7.1 FOR DETAIL

THORNTONS
STORE #1705
TYPE: 5000R-KY
DATE: 3/20/2016
FFE: 699.85

PROFESSIONAL ENGINEER'S CERTIFICATION

I, JUSTIN M. MULLER, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

DATED THIS 2ND DAY OF OCTOBER, A.D., 2017.

Justin Muller

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-061020
MY LICENSE EXPIRES ON NOVEMBER 30, 2017



Date of Expiration: 11-30-17

EROSION CONTROL NOTES

1. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
2. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL PLACE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN OR APPROVED EQUAL) ON ALL SITE AREAS WITH SLOPES GREATER THAN 4:1, AND IN THE BOTTOM AND SIDE SLOPES OF ALL SWALES.
4. PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
5. PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.
6. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
7. ALL SEDIMENT DELTAS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.
8. ACCUMULATIONS OF TRACKED AND DEPOSITED SEDIMENT MUST BE REMOVED FROM OFF-SITE PAVED SURFACES WITHIN 24 HOURS OR SOONER IF REQUIRED. SEDIMENT TRACKING MUST BE MINIMIZED BY THE APPROPRIATE MANAGEMENT PRACTICE, LIKE A DEDICATED SITE EXIT WITH AN AGGREGATE SURFACE OR DESIGNATED OFFSITE PARKING AREA. CONTRACTOR IS RESPONSIBLE FOR STREET SWEEPING AND/OR SCRAPING IF YOUR PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED FROM THE SITE.
9. SURFACE WATERS, DRAINAGE DITCHES AND CONVEYANCE SYSTEMS MUST BE INSPECTED FOR SEDIMENT DEPOSITS.
10. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.
11. PUMPING SEDIMENT LADEN WATER INTO ANY STORMWATER FACILITY THAT IS NOT DESIGNATED TO BE A SEDIMENT TRAP, DRAINAGEWAY, OR OFFSITE AREA EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED.
12. SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE DIRECTOR OR ADMINISTRATOR.
13. STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SESC MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.
14. ALL TEMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
15. WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
16. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.
17. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH DUMP NO WASTE AND DRAINS TO A CREEK. THIS NOTE MUCH ALSO BE INCLUDED ON ALL DRAINAGE STRUCTURE DETAILS.
18. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OVER ONE ACRE. INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
19. ANY INCIDENT OF NON-COMPLIANCE (IGN) MUST BE COMPLETED AND SUBMITTED TO THE IEPA IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS.
20. A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURE ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
21. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

EROSION CONTROL MAINTENANCE

THE STORMWATER SYSTEM INCLUDES STORM SEWERS, INLETS, OUTFALLS, AND OVERLAND FLOW ROUTES. THE FOLLOWING MAINTENANCE TASKS SHOULD BE PERFORMED EVERY TWO WEEKS:

DEBRIS REMOVAL. TRASH, WOOD CHIPS, GRASS CLIPPINGS, SEDIMENT, AND OTHER DEBRIS SHOULD BE REMOVED FROM THE CATCH BASINS, INLETS, OUTFALLS, AND STORM SEWERS TO PREVENT CLOGGING. CLEANING SHOULD BE DONE IN SUCH A WAY THAT THE DEBRIS IS NOT DISCHARGED BACK INTO THE STORMWATER SYSTEM.

REMOVAL OF OBSTRUCTIONS. INSPECTIONS SHOULD BE PERFORMED TO ENSURE THAT ALL OVERLAND FLOW ROUTES ARE FREE FROM OBSTRUCTIONS. IF AN OBSTRUCTION HAS BEEN PLACED IN AN OVERLAND FLOW ROUTE, IT SHOULD BE REMOVED IMMEDIATELY.

VEGETATION CONTROL. FOR GRASSED SWALES THAT SERVE AS OVERLAND FLOW ROUTES, REGULAR MOWING SHOULD BE PERFORMED TO KEEP GRASS AT AN OPTIMUM HEIGHT (LESS THAN SIX INCHES). TREES, BUSHES, AND ANY OTHER NON-GRASS VEGETATION SHOULD BE REMOVED TO PRESERVE THE CONVEYANCE CAPACITY OF THE SWALE. ANY AREAS OF BARE SOIL SHOULD BE RESTORED IMMEDIATELY USING SEEDING WITH EROSION CONTROL BLANKET.

SWPPP CONTACT:
CONTACT: DREW ZAZOFSKY
ADDRESS: 2600 JAMES THORTON WAY
LOUISVILLE, KY 40245
TEL: (617) 320-2759

EROSION CONTROL LEGEND

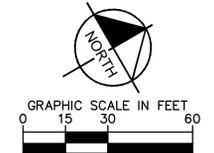
- TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
- TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
- CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SILT FENCE (SEE EROSION CONTROL DETAILS)
- PAVED AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- CURB CUT RIP RAP (SEE SHEET C7.1)
- LIMITS OF DISTURBANCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- TEMPORARY CHAIN LINK CONSTRUCTION FENCE

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	VILLAGE COMMENTS	8/18/2017	JMM
REVISIONS	NO.	DATE	BY
<p>THORNTONS</p> <p>EROSION CONTROL PLAN (WEST)</p> <p>THORNTONS IL-53 & JOLIET ROAD ROMEIOVILLE, IL</p>	SCALE: AS NOTED	DESIGNED BY: DDL	CHECKED BY: JMM
<p>ORIGINAL ISSUE: 06/20/2017</p> <p>KHA PROJECT NO. 168359008</p> <p>SHEET NUMBER C4.0</p>			

Drawing name: K:\CS_LIVE\168359008_Business_omeioville_IL\2 Design\CAD\plan\meets C4.0-C4.1. EROSION CONTROL PLAN.dwg C4.0 Oct 02, 2017 9:09am by: nancymcquig
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EROSION CONTROL SCHEDULE AND SEQUENCING:

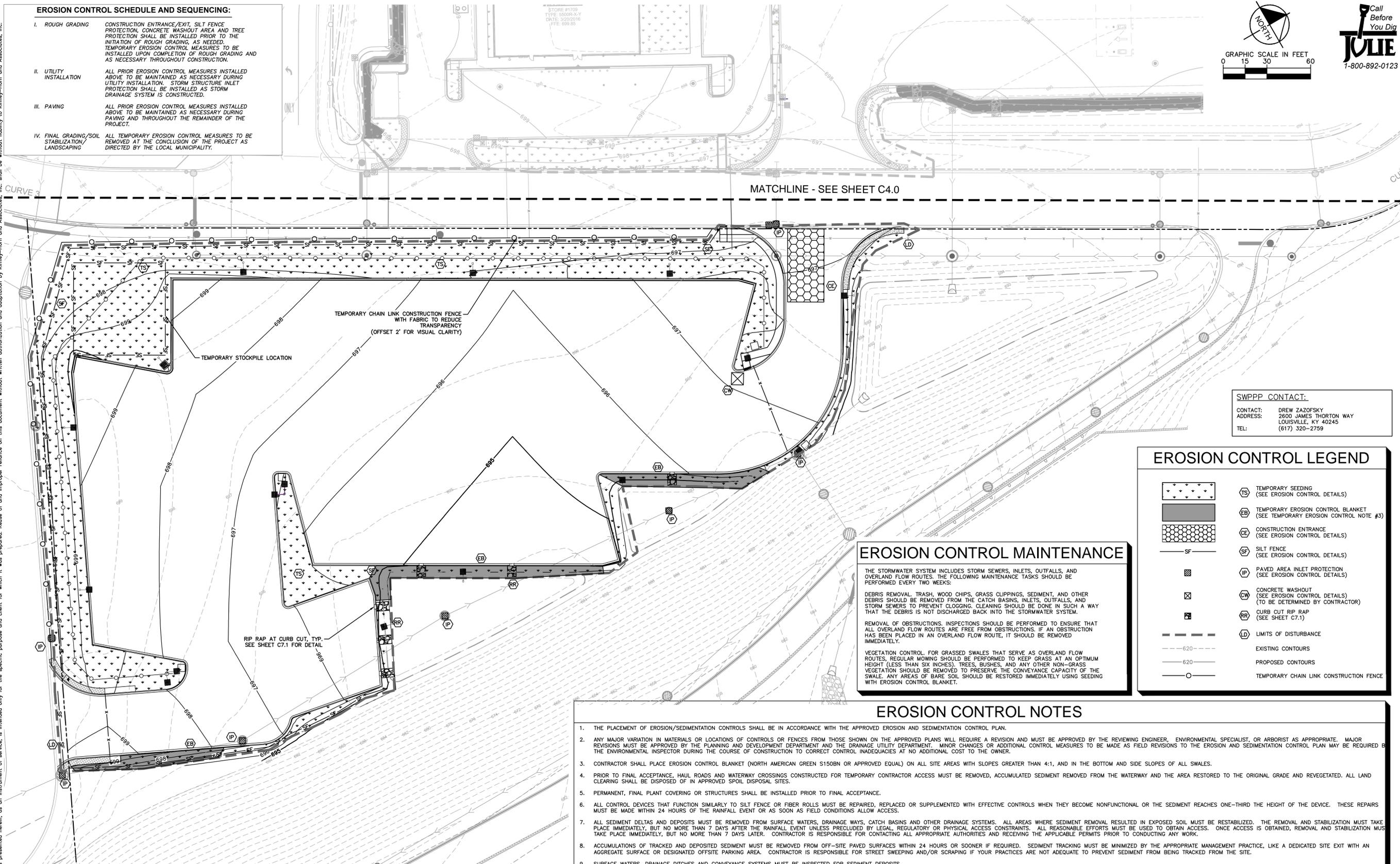
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- III. PAVING ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
- IV. FINAL GRADING/SOIL STABILIZATION/LANDSCAPING ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE LOCAL MUNICIPALITY.



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STORE #1709
 TYPE: 5500R-X-Y
 DATE: 3/20/2016
 PFE: 039.65

MATCHLINE - SEE SHEET C4.0



SWPPP CONTACT:
 CONTACT: DREW ZAZOFSKY
 ADDRESS: 2800 JAMES THORNTON WAY
 LOUISVILLE, KY 40245
 TEL: (617) 320-2759

EROSION CONTROL LEGEND

- TS TEMPORARY SEEDING (SEE EROSION CONTROL DETAILS)
- EB TEMPORARY EROSION CONTROL BLANKET (SEE TEMPORARY EROSION CONTROL NOTE #3)
- CE CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- SF SILT FENCE (SEE EROSION CONTROL DETAILS)
- IP PAVED AREA INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- CW CONCRETE WASHOUT (SEE EROSION CONTROL DETAILS) (TO BE DETERMINED BY CONTRACTOR)
- RR CURB CUT RIP RAP (SEE SHEET C7.1)
- LD LIMITS OF DISTURBANCE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- TEMPORARY CHAIN LINK CONSTRUCTION FENCE

EROSION CONTROL MAINTENANCE

THE STORMWATER SYSTEM INCLUDES STORM SEWERS, INLETS, OUTFALLS, AND OVERLAND FLOW ROUTES. THE FOLLOWING MAINTENANCE TASKS SHOULD BE PERFORMED EVERY TWO WEEKS:

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EROSION CONTROL NOTES

1. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
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5. PERMANENT, FINAL PLANT COVERING OR STRUCTURES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE.
6. ALL CONTROL DEVICES THAT FUNCTION SIMILARLY TO SILT FENCE OR FIBER ROLLS MUST BE REPAIRED, REPLACED OR SUPPLEMENTED WITH EFFECTIVE CONTROLS WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES ONE-THIRD THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF THE RAINFALL EVENT OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
7. ALL SEDIMENT BASINS AND DEPOSITS MUST BE REMOVED FROM SURFACE WATERS, DRAINAGE WAYS, CATCH BASINS AND OTHER DRAINAGE SYSTEMS. ALL AREAS WHERE SEDIMENT REMOVAL RESULTED IN EXPOSED SOIL MUST BE RESTABILIZED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS AFTER THE RAINFALL EVENT UNLESS PRECLUDED BY LEGAL, REGULATORY OR PHYSICAL ACCESS CONSTRAINTS. ALL REASONABLE EFFORTS MUST BE USED TO OBTAIN ACCESS. ONCE ACCESS IS OBTAINED, REMOVAL AND STABILIZATION MUST TAKE PLACE IMMEDIATELY, BUT NO MORE THAN 7 DAYS LATER. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AUTHORITIES AND RECEIVING THE APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK.
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12. SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGEWAY, FLOOD PLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE DIRECTOR OR ADMINISTRATOR.
13. STOCKPILES TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE PROVIDED WITH SESC MEASURES. MATERIAL IS TO BE HAULED OFF IMMEDIATELY AND LEGALLY IF NO STOCKPILE IS TO REMAIN IN PLACE.
14. ALL TEMPORARY SESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
15. WATER REMOVED FROM TRAPS, BASINS, AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
16. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.
17. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH DUMP NO WASTE AND DRAINS TO A CREEK. THIS NOTE MUCH ALSO BE INCLUDED ON ALL DRAINAGE STRUCTURE DETAILS.
18. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OVER ONE ACRE. INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
19. ANY INCIDENT OF NON-COMPLIANCE (ION) MUST BE COMPLETED AND SUBMITTED TO THE IEPA IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS.
20. A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURE ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
21. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

PROFESSIONAL ENGINEER'S CERTIFICATION

I, JUSTIN M. MULLER, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

DATED THIS 2ND DAY OF OCTOBER, A.D., 2017.

Justin Muller



ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-061020
 MY LICENSE EXPIRES ON NOVEMBER 30, 2017

Date of Expiration: 11-30-17

Drawing name: K:\GIS\JEB\168359008_bjstone_omeo\file_2 Design\CAD\plan\sheeta C4.0-C4.1 EROSION CONTROL PLAN.dwg C4.1 Oct 02, 2017 9:09am by: jnm\mcquigg
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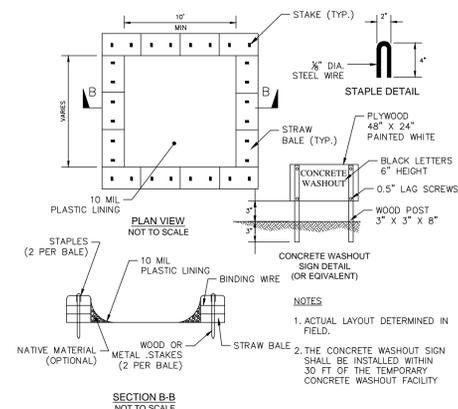
ISSUED FOR BID	10/2/2017	DDL	BY
VILLAGE COMMENTS	8/18/2017	JMM	
REVISIONS		JMM	
DATE			
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SCALE: AS NOTED	DESIGNED BY: DDL	DRAWN BY: RMM	CHECKED BY: JMM
THORNTONS			
EROSION CONTROL PLAN (EAST)			
THORNTONS IL-53 & JOLIET ROAD ROMEOVILLE, IL			
ORIGINAL ISSUE:	06/20/2017		
KHA PROJECT NO.	168359008		
SHEET NUMBER	C4.1		

Drawing name: K:\GIS_LIBY\168359008_bjstone_omeo\ell\1\2 Design\CAD\plan\sheet\C4.2 - EROSION CONTROL NOTES & DETAILS.dwg CA.2 Oct 02, 2017 9:09am by ryanmcabrig
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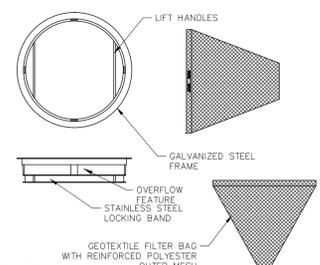
STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
SODDING			E	**								
MULCHING	F											

- | | | |
|---|------------------------------------|--|
| A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE | C SPRING OATS 100 LBS/ACRE | * WATERING NEEDED DURING JUNE AND JULY |
| B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE | D WHEAT OR CEREAL RYE 150 LBS/ACRE | ** WATERING NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD |
| | E SOD | |
| | F STRAW MULCH 2 TONS/ACRE | |

SEEDING CHART

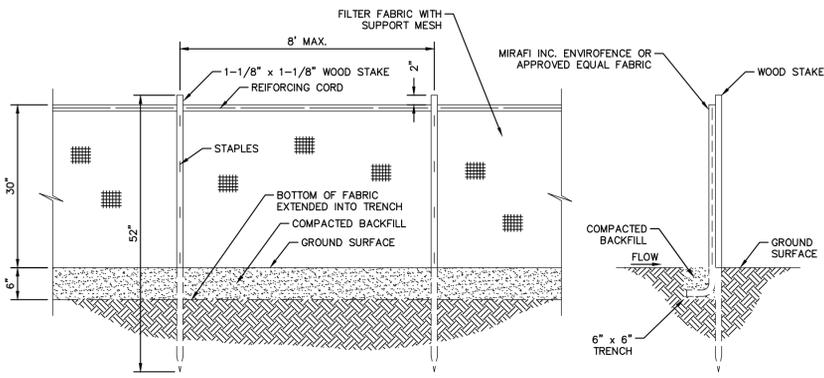


CONCRETE WASHOUT (CW)
N.T.S.

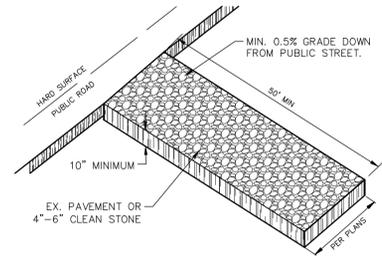


GENERAL NOTES:
ALL PRODUCTS MANUFACTURED BY INLET AND PIPE PROTECTION, INC OR APPROVED EQUAL.
NOTE: INLET FILTERS ARE SLIGHTLY SMALLER THAN THE INLET GRATE SIZES. WHEN IDENTIFYING OR SPECIFYING FILTERS/CASTINGS PLEASE REFER TO THE DIAMETER "D" OR WIDTH "W" AND HEIGHT "H" OF FILTER FRAMES OR CASTING GRATES. YOU MAY ALSO REFER TO OUR CASTING CROSS REFERENCE GUIDE FOR IDOT STANDARDS.
IDOT TYPE 1 ROUND INLET FILTER DEPICTED
NOTE: ROUND AND SQUARE INLET FILTERS AVAILABLE FOR MOST NEENAH AND EAST JORDAN BEEHIVE, ROLL CURB AND CURB BOX FRAME TYPES.
ALL IPP INLET FILTERS TO CONFORM TO IDOT SPECIFICATIONS AS OUTLINED IN ARTICLE 108.15 OF IDOT'S STANDARD SPECIFICATIONS GUIDE.

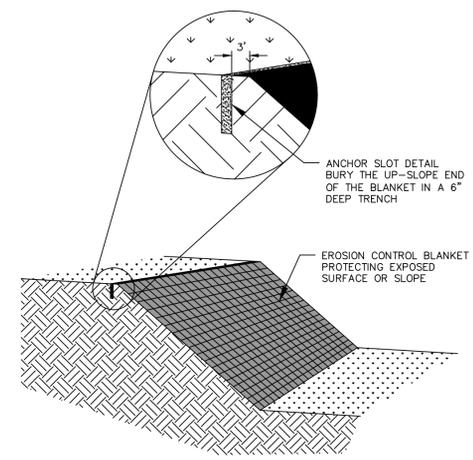
INLET PROTECTION (IP)
N.T.S.



SEDIMENTATION/SILT FENCE (SF)
N.T.S.



CONSTRUCTION ENTRANCE (CE)
N.T.S.



EROSION CONTROL BLANKET DETAIL (EB)
N.T.S.

- STRIPS OF THE BLANKET SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW OVER THE SURFACE WHICH IS TO BE PROTECTED.
- THE UP-SLOPE END OF THE BLANKET SHALL BE BURIED IN A TRENCH MEASURE 6 INCHES DEEP AND 6 INCHES WIDE FOR THE ENTIRE WIDTH OF THE END. THE SOIL SHALL BE BACKFILLED INTO THE TRENCH AND TAMPED FIRMLY INTO PLACE. STAPLES SHALL BE PLACED EVERY 12 INCHES ALONG THE END OF THE BLANKET.
- EDGES OF ADJACENT STRIPS OF THE BLANKET SHALL BE OVERLAPPED A MINIMUM OF 4 INCHES AND SHALL BE STAPLED EVERY 3 FEET ALONG THE OVERLAP.
- WHEN JOINING STRIPS OF THE BLANKET END TO END, A TRENCH SIMILAR TO THE ONE DUG AT THE BEGINNING OF THE ORIGINAL STRIP SHALL BE DUG AT THE UP-SLOPE END OF THE NEW STRIP. THE END OF THE NEW STRIP SHALL BE FOLDED UNDER AT LEAST 1/2 INCHES WITH THE FOLD BEING PLACED IN A LIKE MANNER IN THE TRENCH AS THE BEGINNING END OF THE ORIGINAL STRIP. STAPLES SHALL BE INSTALLED AT 12 INCH INTERVALS ALONG THE TRENCH.
- STAPLES FOR ANCHORING SOIL STABILIZING MATERIALS SHALL BE MADE OF 10 GAUGE WIRE OR HEAVIER. THEY SHALL BE 6 TO 10 INCHES IN LENGTH, WITH THE LONGER BEING USED IN LOOSE OR UNSTABLE SOILS. THERE SHALL BE ONE STAPLE FOR EACH 4 SQUARE FEET OF THE BLANKET TO ASSURE PROPER BONDING BETWEEN THE SOIL AND THE MAT MATERIAL.

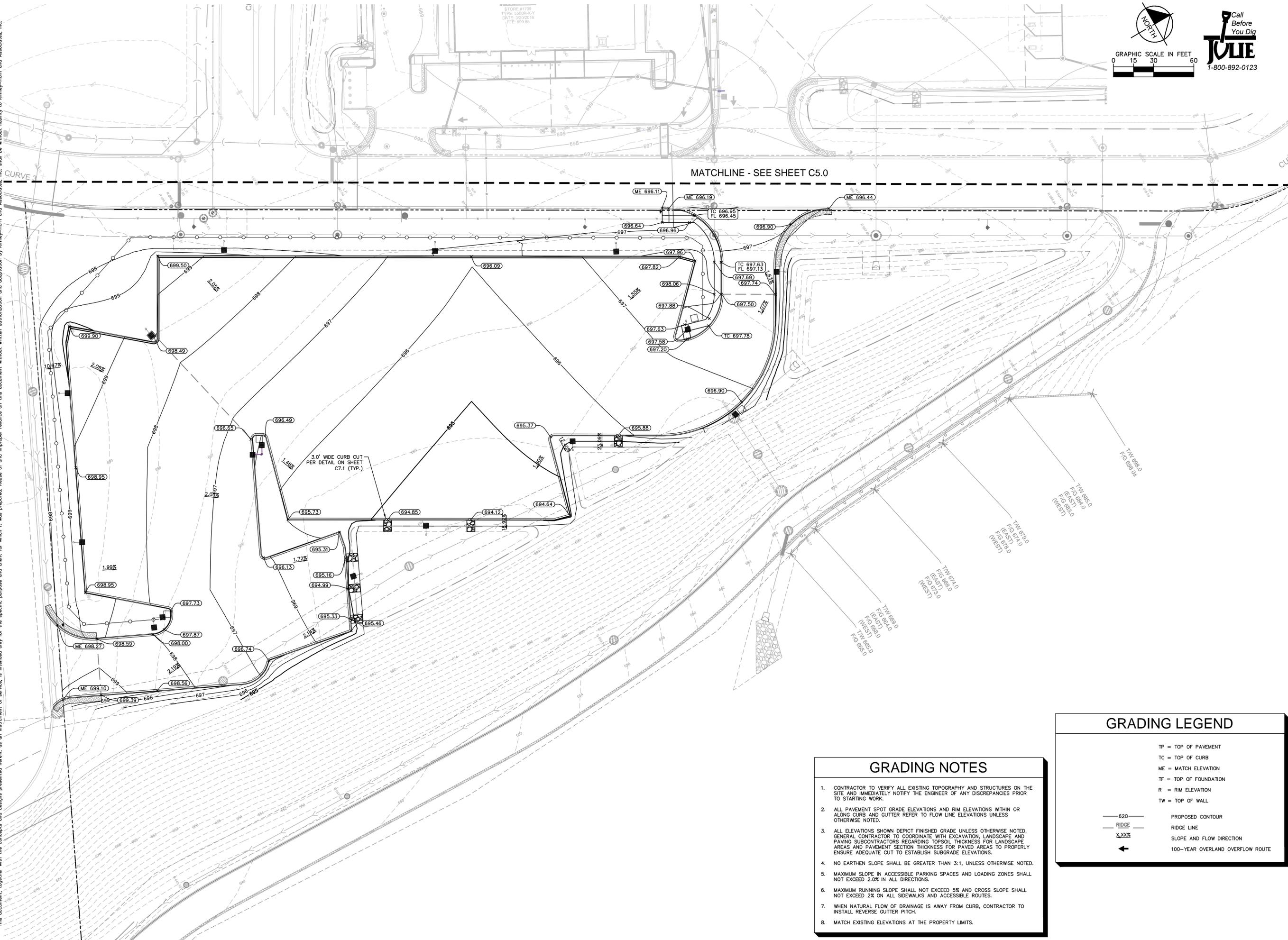
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	ISSUED FOR BID: 10/2/2017 VILLAGE COMMENTS: JMM REVISIONS: 8/18/2017 DATE: JMM BY: DDL
EROSION CONTROL NOTES & DETAILS	THORNTONS IL-53 & JOLIET ROAD ROMEOVILLE, IL
ORIGINAL ISSUE: 06/20/2017 KHA PROJECT NO. 168359008	SHEET NUMBER C4.2

Drawing name: K:\GIS_LIVE\168359008_Buonstone_romeoville\2 Design\CAD\plan sheets\C5.0-C5.1 - GRADING & DRAINAGE PLAN.dwg C5.1 Oct 02, 2017 9:09am by ryanmcclung
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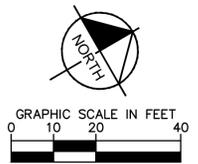
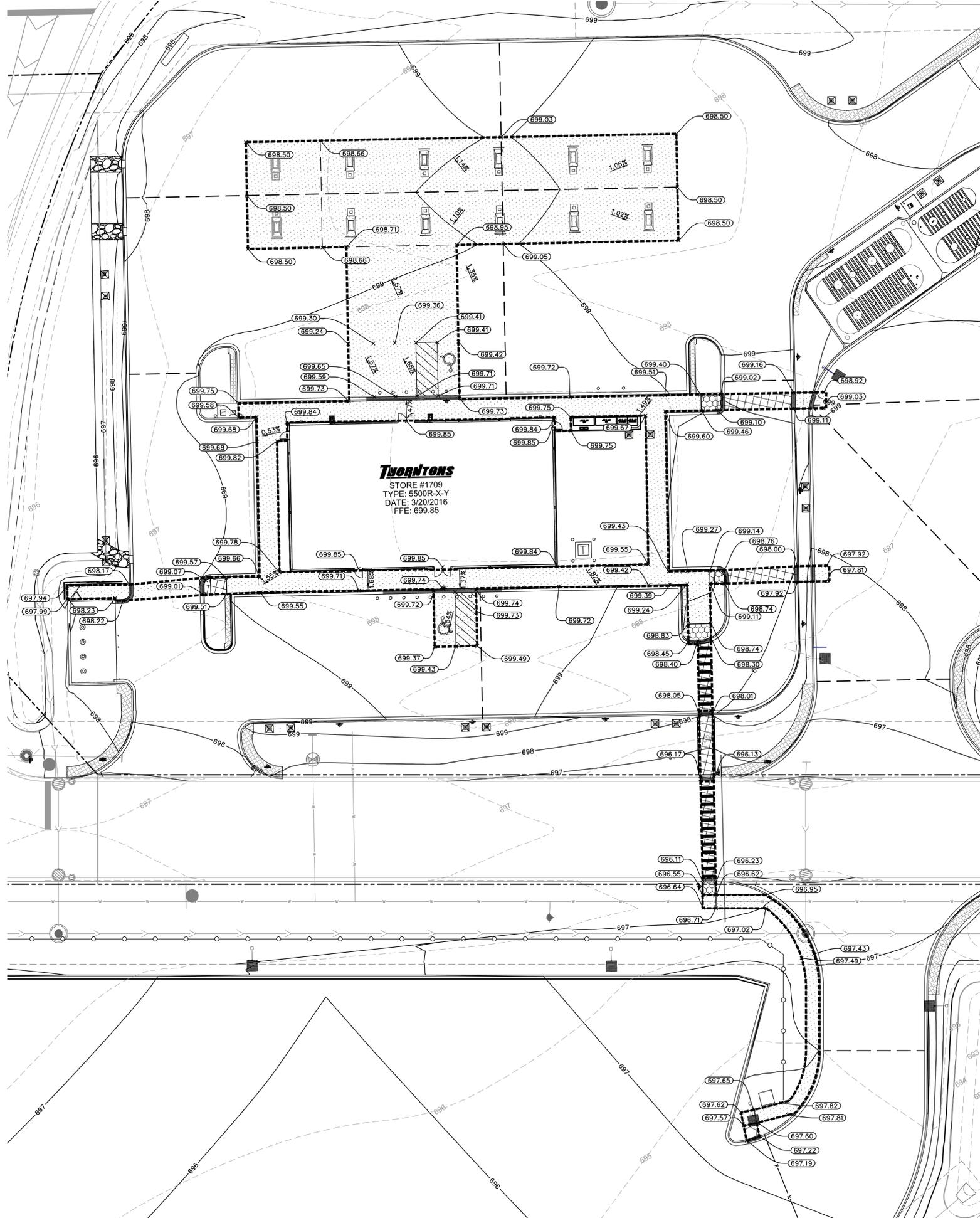
- ### GRADING NOTES
- CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
 - ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
 - ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
 - NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
 - MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
 - MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
 - WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
 - MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

GRADING LEGEND

TP = TOP OF PAVEMENT	— 620 —	PROPOSED CONTOUR
TC = TOP OF CURB	— RIDGE —	RIDGE LINE
ME = MATCH ELEVATION	↘ ↗ ↘ ↗	SLOPE AND FLOW DIRECTION
TF = TOP OF FOUNDATION	←	100-YEAR OVERLAND OVERFLOW ROUTE
R = RIM ELEVATION		
TW = TOP OF WALL		

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SCALE: AS NOTED DESIGNED BY: DDL DRAWN BY: RIM CHECKED BY: JMM	ISSUED FOR BID VILLAGE COMMENTS VILLAGE COMMENTS REVISIONS		NO. DATE BY	10/2/2017 JMM 8/18/2017 JMM DATE	DDJ JMM JMM BY

Drawing name: K:\CHS_DEV\168359008_Buoneste_romeoville\2 Design\CAD\plan\sheet\C5.2 - ADA PLAN.dwg CS.2 ADA PLAN Oct 02, 2017 9:09am by: ryan.mcquigg
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 - WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
 - MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

ADA GRADING LEGEND

	MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS
	MAXIMUM 2.0% CROSS-SLOPE & 5.0% RUNNING SLOPE (MAXIMUM 30" ELEVATION CHANGE BETWEEN LANDINGS)
	MAXIMUM 2.0% CROSS-SLOPE & 5.0% RUNNING SLOPE (MAXIMUM 6" ELEVATION CHANGE BETWEEN LANDINGS)
	STANDARD PITCH CONCRETE CURB AND GUTTER
	CONCRETE DEPRESSED CURB AND GUTTER
	ACCESSIBLE ROUTE
	PROPOSED CONTOUR
	EXISTING CONTOUR

THORNTONS	ADA PLAN	Kimley»Horn <small>© 2017 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARDENVILLE ROAD, WARDENVILLE, IL 60552 PHONE: 630-487-5500 WWW.KIMLEY-HORN.COM</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ISSUED FOR BID</td> <td style="width: 50%;">DDL</td> </tr> <tr> <td>VILLAGE COMMENTS</td> <td>JMM</td> </tr> <tr> <td>VILLAGE COMMENTS</td> <td>JMM</td> </tr> <tr> <td>REVISIONS</td> <td>JMM</td> </tr> <tr> <td> </td> <td>DATE</td> </tr> <tr> <td> </td> <td>BY</td> </tr> </table>	ISSUED FOR BID	DDL	VILLAGE COMMENTS	JMM	VILLAGE COMMENTS	JMM	REVISIONS	JMM		DATE		BY
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THORNTONS	ADA PLAN	Kimley»Horn	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE: AS NOTED</td> <td style="width: 50%;">DESIGNED BY: DDL</td> </tr> <tr> <td>DRAWN BY: RMM</td> <td>CHECKED BY: JMM</td> </tr> </table>	SCALE: AS NOTED	DESIGNED BY: DDL	DRAWN BY: RMM	CHECKED BY: JMM								
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DRAWN BY: RMM	CHECKED BY: JMM														
THORNTONS	ADA PLAN	Kimley»Horn	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ORIGINAL ISSUE:</td> <td style="width: 50%;">06/20/2017</td> </tr> <tr> <td>KHA PROJECT NO.</td> <td>168359008</td> </tr> <tr> <td>SHEET NUMBER</td> <td>C5.2</td> </tr> </table>	ORIGINAL ISSUE:	06/20/2017	KHA PROJECT NO.	168359008	SHEET NUMBER	C5.2						
ORIGINAL ISSUE:	06/20/2017														
KHA PROJECT NO.	168359008														
SHEET NUMBER	C5.2														

Drawing name: K:\GIS_DEVELOPMENT\16835908_Business_romeoville_IL\2 Design\CAD\plansets\C6.0 UTILITY PLAN (WEST) Oct 02, 2017 9:08am by: ryan.mclaughlin
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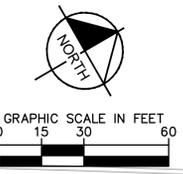
BOLLINGBROOK DRIVE (IL-53)

JOLIET ROAD

UTILITY CROSSING LEGEND

6" STORM	B/P = 695.00
8" WATER	T/P = 693.50
8" WATER	B/P = 694.20
18" STORM	B/P = 693.70

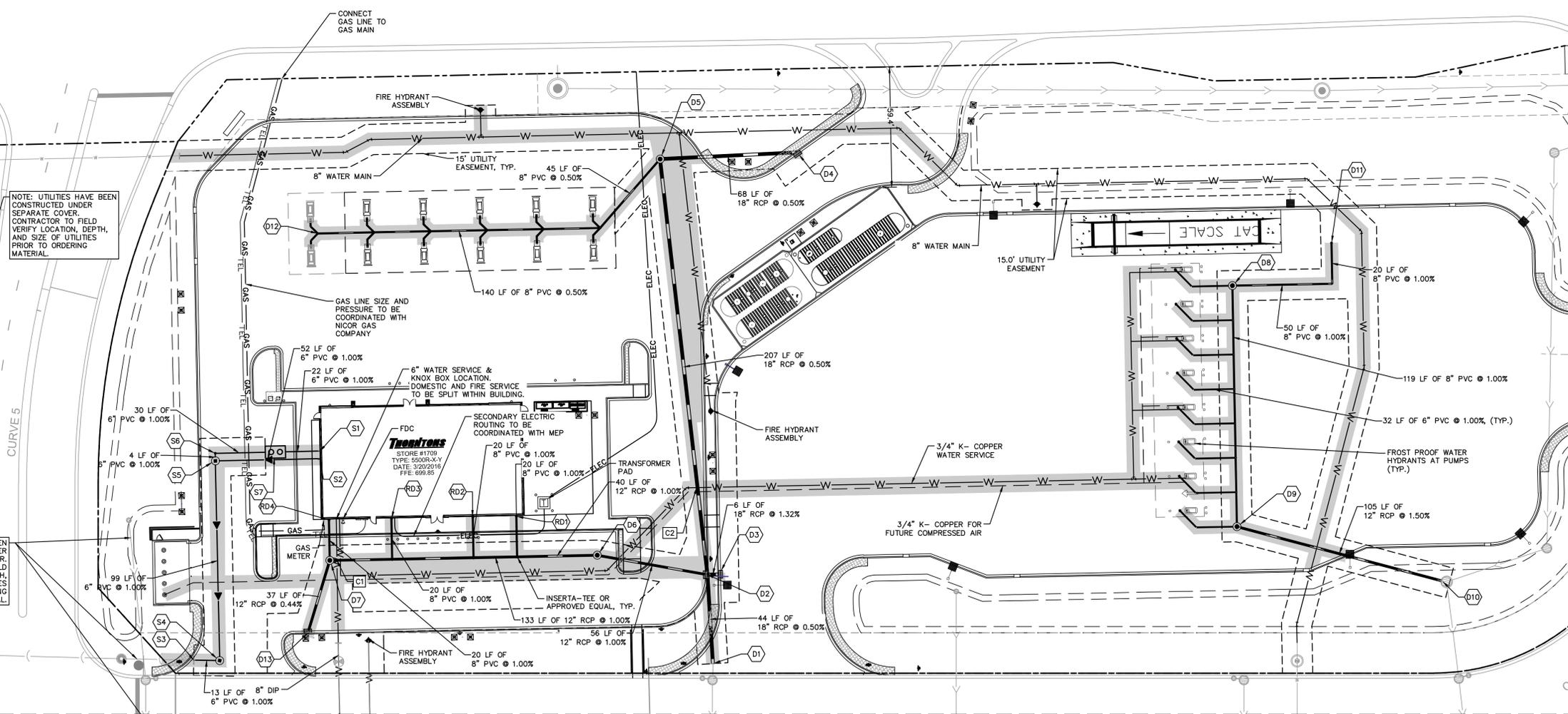
NOTE: WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT SEWER MAIN OR WATER MAIN IS TO BE ENCASED FOR 10-FT ON EACH SIDE OF A CROSSING WHERE THERE IS LESS THAN 18-IN SEPARATION.



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VILLAGE COMMENTS	JMM	10/2/2017
VILLAGE COMMENTS	JMM	8/18/2017
REVISIONS	JMM	DATE

NOTE: UTILITIES HAVE BEEN CONSTRUCTED UNDER SEPARATE COVER. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, AND SIZE OF UTILITIES PRIOR TO ORDERING MATERIAL.

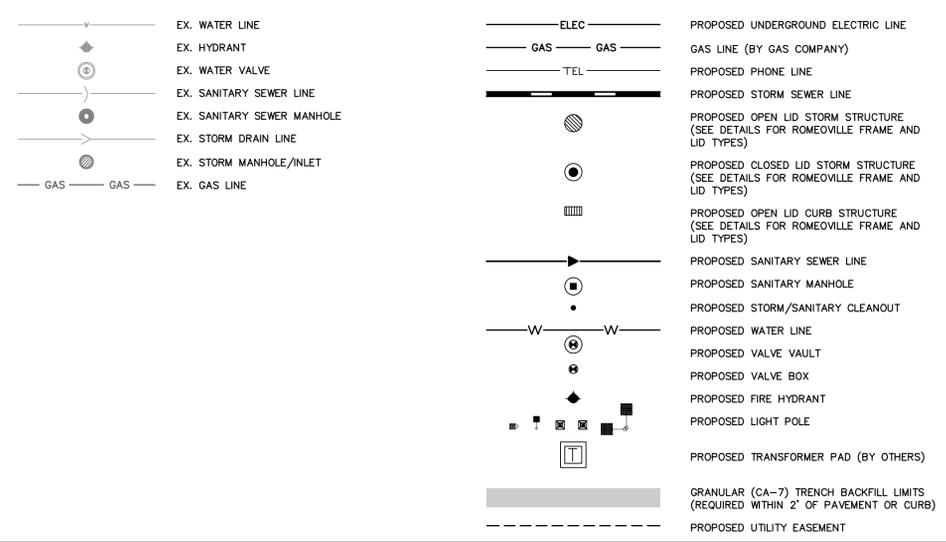
NOTE: UTILITIES HAVE BEEN CONSTRUCTED UNDER SEPARATE COVER. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, AND SIZE OF UTILITIES PRIOR TO ORDERING MATERIAL.



STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D1	CONNECT TO EXIST STORM STUB-OUT RIM: 696.33 INV IN: 692.03 (NW) INV OUT: 692.03 (SE)
D2	4' DIA CATCH BASIN RIM: 697.68 INV IN: 693.21 (SW) INV IN: 692.25 (NW) INV IN: 693.22 (NE) INV OUT: 692.25 (SE)
D3	4' DIA CATCH BASIN RIM: 697.28 INV OUT: 693.29 (SW)
D4	4' DIA CATCH BASIN RIM: 697.63 INV OUT: 693.62 (SW)
D5	4' DIA MH - CLOSED LID RIM: 697.28 INV IN: 693.28 (NE) INV IN: 693.28 (S) INV OUT: 693.28 (SE)
D6	4' DIA MH - CLOSED LID RIM: 698.77 INV IN: 693.76 (SW) INV OUT: 693.76 (NE)
D7	4' DIA MH - CLOSED LID RIM: 699.08 INV IN: 695.09 (NW) INV IN: 695.09 (SE) INV OUT: 695.09 (NE)
D8	4' DIA MH - CLOSED LID RIM: 698.36 INV IN: 693.82 (SW) INV IN: 693.82 (NE) INV OUT: 693.74 (SE)
D9	4' DIA MH - CLOSED LID RIM: 698.17 INV IN: 692.55 (NW) INV IN: 692.55 (SW) INV OUT: 692.55 (NE)
D10	CORE INTO EXIST STORM STRUCTURE RIM: 693.90 INV IN: 690.98 (SW)
D11	DRAINAGE STUB-OUT RIM: 697.64 INV OUT: 694.52 (SE)
D12	6" CLEANOUT RIM: 698.61 INV IN: 694.21 (S) INV IN: 694.21 (W) INV OUT: 694.21 (NE)
D13	4' DIA CATCH BASIN RIM: 698.60 INV OUT: 695.25 (NW)
RD1	ROOF DRAIN CONNECTION RIM: 699.84 INV OUT: 694.36 (SE)
RD2	ROOF DRAIN CONNECTION RIM: 699.84 INV OUT: 694.58 (SE)
RD3	ROOF DRAIN CONNECTION RIM: 699.83 INV OUT: 694.98 (SE)
RD4	ROOF DRAIN CONNECTION RIM: 699.83 INV OUT: 695.29 (SE)

UTILITY LEGEND



UTILITY NOTES

- ALL WATER LINES ≥ 3" SHALL BE DUCTILE IRON PIPE, CLASS 52.
- ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 42" MINIMUM COVER.
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE VILLAGE OF ROMEOVILLE SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
- ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
- LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS BY OTHERS FOR MORE INFORMATION.
- SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
- STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS.
- WHERE STRUCTURE ADJUSTMENTS ARE NECESSARY, USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (1" TO 3" MAX HEIGHT OF STACKED RISERS), TYP.
- VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER, AS NOTED ON THE PLANS. THE FRAME AND COVER SHALL BE EAST JORDAN #102223 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE." ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL RUBBER GASKETED. BOOTHS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL.
- INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 481 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS, AND OTHER VOIDS WITH STEEL-SEAM F7910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE.
- ALL CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 102223 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE."
- PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- SEE ROMEOVILLE GATEWAY PLANS AND STORMWATER MANAGEMENT REPORT BY V3 COMPANIES FOR OVERALL DEVELOPMENT DRAINAGE CALCULATIONS.

SANITARY STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
S1	6" GREASE WASTE BUILDING CONNECTION RIM: 699.39 INV OUT: 694.99 (SW)
S2	6" SANITARY SEWER BUILDING CONNECTION RIM: 699.84 INV OUT: 694.99 (SW)
S3	CONNECT TO EXIST SANITARY SEWER STUB OUT RIM: 697.39 INV IN: 689.82 (NE)
S4	4' DIA SANITARY DROP MH RIM: 697.38 INV IN: 693.18 (NW) INV OUT: 689.95 (SW)
S5	4' DIA SANITARY MH RIM: 698.54 INV IN: 694.27 (NW) INV IN: 694.47 (NE) INV OUT: 694.17 (SE)
S6	6" CLEANOUT RIM: 698.57 INV IN: 694.30 (NE) INV OUT: 694.30 (SE)
S7	GREASE TRAP RIM: 699.04 INV IN: 694.77 (NE) INV OUT: 694.60 (SW)

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 1001 WASHINGTON STREET, SUITE 1100
 PEORIA, IL 61604
 WWW.KIMLEY-HORN.COM

SCALE: AS NOTED
 DESIGNED BY: DDL
 DRAWN BY: RMM
 CHECKED BY: JMM

THORNTONS

UTILITY PLAN (WEST)

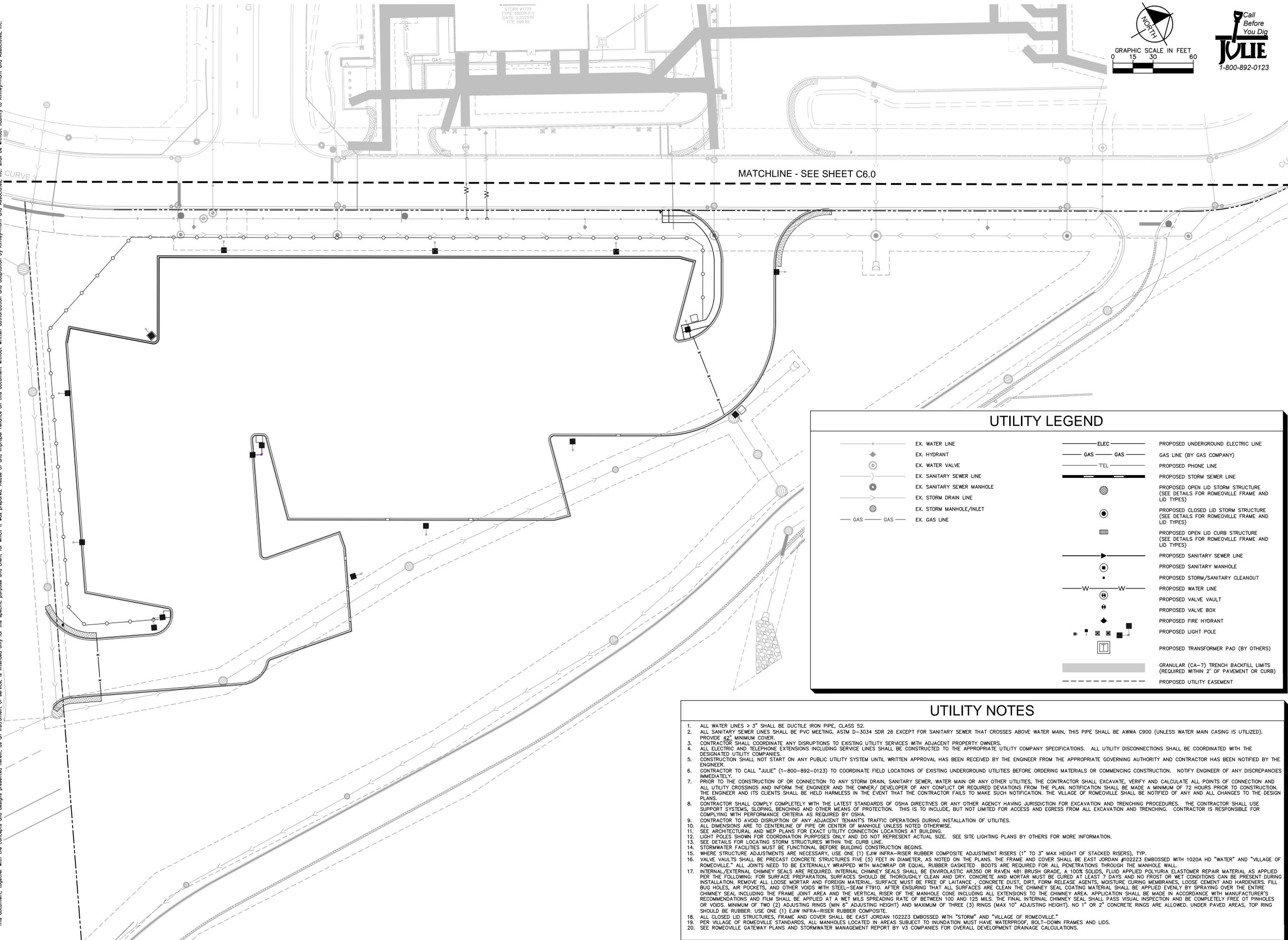
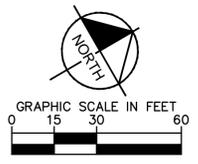
THORNTONS
 IL-53 & JOLIET ROAD
 ROMEOVILLE, IL

ORIGINAL ISSUE:
 06/20/2017
 KHA PROJECT NO.
 168359008

SHEET NUMBER
C6.0

Drawing name: K:\GIS_DEVELOPMENT\168359008_bustone_romeoville\12 Design\CAD\plan\sheet\C6.0 UTILITY PLAN (EAST) Oct 02, 2017 9:09am by: ryan.mcquigg
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TYPE: 5500R-X-Y
DATE: 3/20/2016
FTE: 929.65



MATCHLINE - SEE SHEET C6.0

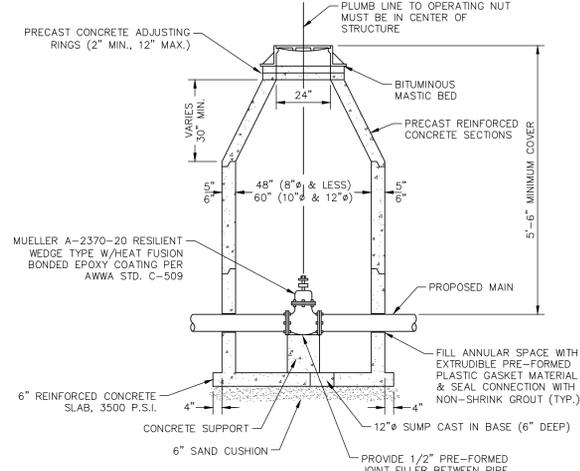
UTILITY LEGEND

	EX. WATER LINE		ELEC		PROPOSED UNDERGROUND ELECTRIC LINE
	EX. HYDRANT		GAS		GAS LINE (BY GAS COMPANY)
	EX. WATER VALVE		TEL		PROPOSED PHONE LINE
	EX. SANITARY SEWER LINE				PROPOSED STORM SEWER LINE
	EX. SANITARY SEWER MANHOLE				PROPOSED OPEN LID STORM STRUCTURE (SEE DETAILS FOR ROMEOVILLE FRAME AND LID TYPES)
	EX. STORM DRAIN LINE				PROPOSED CLOSED LID STORM STRUCTURE (SEE DETAILS FOR ROMEOVILLE FRAME AND LID TYPES)
	EX. STORM MANHOLE/INLET				PROPOSED OPEN LID CURB STRUCTURE (SEE DETAILS FOR ROMEOVILLE FRAME AND LID TYPES)
	EX. GAS LINE				PROPOSED SANITARY SEWER LINE
					PROPOSED SANITARY MANHOLE
					PROPOSED STORM/SANITARY CLEANOUT
					PROPOSED WATER LINE
					PROPOSED VALVE VAULT
					PROPOSED FIRE HYDRANT
					PROPOSED LIGHT POLE
					PROPOSED TRANSFORMER PAD (BY OTHERS)
					GRANULAR (CA-7) TRENCH BACKFILL LIMITS (REQUIRED WITHIN 2' OF PAVEMENT OR CURB)
					PROPOSED UTILITY EASEMENT

- ### UTILITY NOTES
- ALL WATER LINES $\geq 3"$ SHALL BE DUCTILE IRON PIPE, CLASS 52.
 - ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 42" MINIMUM COVER.
 - CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
 - ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
 - CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
 - PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/ DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE VILLAGE OF ROMEOVILLE SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
 - CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
 - CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
 - ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
 - SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
 - LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS FOR MORE INFORMATION.
 - SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
 - STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS.
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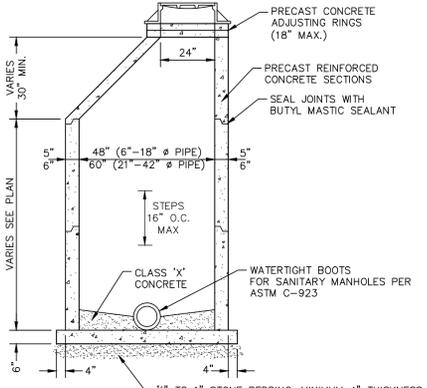
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SCALE: AS NOTED	DESIGNED BY: DDL	DRAWN BY: RMM	CHECKED BY: JMM							
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C6.1										

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- NOTES:
- UNLESS OTHERWISE NOTED, USE THE FOLLOWING FRAMES & GRATES:
 - IN PAVED AREAS: NEENAH R-1712 W/TYPE B COVER (CLOSED)
 - IN GRASS: NEENAH R-1772-A W/TYPE B COVER (CLOSED)
 - EAST JORDAN EQUIVALENTS ALSO MAY BE USED.
 - ALL COVERS SHALL BE SELF-SEALING WITH CONCEALED PICK HOLES AND HAVE "WATER" CAST INTO THE COVER.

VALVE AND VAULT
N.T.S.



- NOTES:
- UNLESS OTHERWISE NOTED, USE THE FOLLOWING FRAMES & GRATES OR EQUALS:
 - 1.1. - IN PAVED AREAS: NEENAH R-1713 OR APPROVED EQUAL W/TYPE B COVER (CLOSED)
 - 1.2. - IN GRASS: NEENAH R-1711 W/TYPE B COVER (CLOSED)
 - EAST JORDAN EQUIVALENTS ALSO MAY BE USED.
 - ALL COVERS SHALL BE SELF-SEALING WITH CONCEALED PICK HOLES AND HAVE "SANITARY" CAST ON THE COVER.
 - SANITARY MANHOLES NEED WATER PROOF COATING ON EXTERIOR AND STEPS.
 - MASTIC ROPE REQUIRED BETWEEN ALL PRECAST SECTIONS WITH CHIMNEY SEAL.
 - WATER PROOF WRAP REQUIRED ON ALL JOINTS.
 - HYDRAULIC CEMENT REQUIRED FOR ANY ANNULAR SPACES AROUND THE PIPES AND BOOTS.

SANITARY MANHOLE
N.T.S.

Final Acceptance and Testing of Sanitary Sewer

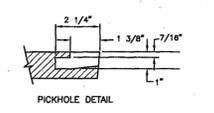
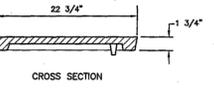
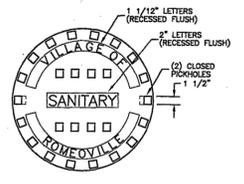
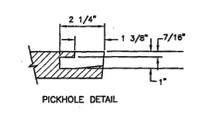
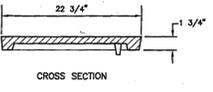
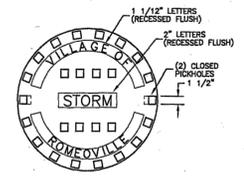
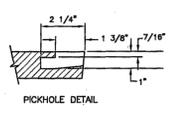
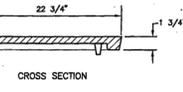
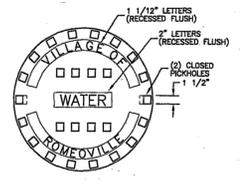
Before final acceptance, the sanitary sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". Specifically, all pipelines constructed of flexible materials shall be subject to air infiltration tests, televising test, and deflection test. The deflection test shall be performed no sooner than thirty (30) days of the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipe exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the developer. Deflection testing shall be accomplished by pulling a mandrel, sphere, or pin-type "go/no-go" device, with a diameter equal to ninety-five (95) percent of the undeflected inside diameter of the flexible pipe, through the pipeline. In addition, all sanitary sewer having a diameter of eight (8) inches or greater shall be televised. Copies of all video tapes must be submitted to the Village of Romeoville.

Final Testing of Sanitary Sewer Manholes

Vacuum Testing shall be carried out immediately after assembly and prior to backfilling of manholes that are up to seventy-two (72) inches in diameter. All lift holes shall be plugged with a non-shrink grout, or rubber plug. The manhole frame and adjusting rings and chimney seals shall be in place before testing. No grout shall be placed in the horizontal joints. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole with the vacuum testing. Vacuum testing shall test all manholes for leakage. A vacuum of ten (10) inches of mercury shall be placed on the manhole and the time measured for the vacuum to drop to nine (9) inches of mercury. The vacuum drop shall not exceed the requirements shown in Table 1 of ASTM C1244-02. If testing fails, developer shall seal all leaks and retest until acceptable. The testing shall be completed prior to backfilling (whenever possible) so that any leaks can be found and fixed externally, and to give the horizontal manhole joints an opportunity to tighten.

Flow Monitoring prior to Acceptance

The developer will be required to monitor the flowrate from the site for a period of two months (encompassing at least two major storm events) to identify any excessive inflow/infiltration occurring in the system. The data must be submitted to the Village of Romeoville prior to acceptance of the public improvements.



ROMEOVILLE LIDS

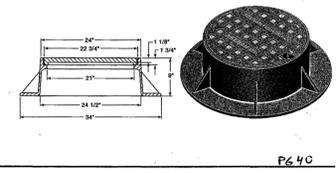
- NOTE:
- ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

Village of Romeoville - Minimum chlorination standards:

- Gas chlorine must be used for disinfection.
 - The chlorination contractor must call 815-886-1870 a minimum of 24-hours in advance to schedule chlorination.
 - Only Village of Romeoville employees shall operate water system valves and turn out sampling whips while samples are being collected.
 - All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc.
 - The chlorinator must be a licensed plumber or certified Illinois water operator with a minimum of 5 years experience working with chlorine disinfection of water supply lines.
 - The chlorination contractor must have two people present to chlorinate. One to monitor the cylinder and one to monitor in the field.
 - The chlorination contractor must be bonded and insured, and have proof of both on file with the Village.
 - The chlorination contractor must have updated 24-hour emergency phone numbers on file with the Village.
 - The chlorination contractor must comply with state and federal regulations regarding transportation and handling of cylinders:
 - Shipping and emergency papers for every job location
 - Proof of insurance for hauling and handling chlorine gas
 - Commercial driver's license with Hazmat endorsement and medical card
 - Copy of Emergency Response Guidebook on vehicle
 - Hazmat certificate of registration
 - Hazardous materials placard displayed on vehicle
 - Cylinder strapped upright in truck
 - Under no circumstances will chlorine contractors be allowed to apply heat to the chlorine cylinder (i.e. hot baths, propane torches, etc.). While the cylinder is being used it must be in a vertical position, as well as being affixed to a solid object.
 - Prior to chlorination, the chlorination contractor must provide a detailed written chlorination and flushing plan to the Village for review and written approval.
- At any time, the Village or its authorized representative may ask proof of any or all of the above information. Please contact the Village of Romeoville Public Works Department (815-886-1870) with any questions.

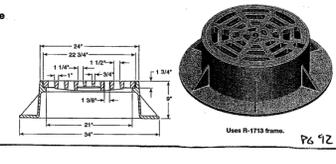
R-1713 Manhole Frame, Solid Lid

Heavy Duty



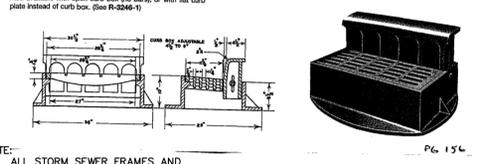
R-2504 Catch Basin Frame and Grate

Heavy Duty

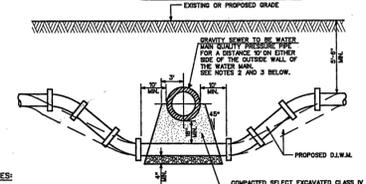


R-3281-A Curb Inlet Frame, Grate and Curb Box

Heavy Duty



- NOTE:
- ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".



- NOTES:
- CONTRACTOR MAY REDD WATER MAIN PIPE UNFOUNDED UNDER SEWERS WITHOUT USING FITTINGS PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED 8 PERCENT PER JOINT FOR PIPE UNDER 14" IN SIZE AND 3 PERCENT PER JOINT FOR PIPE 14" AND OVER IN SIZE. FITTINGS ARE USED CONTINUOUSLY STRIPPED WITH HOSE STRAPS. NOTE: ALL JOINTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED TO BE REINFORCED WITH STEEL-SEAM FT910.
 - ALL SANITARY SEWER INCLUDING SERVICES CROSSING WHERE THE WATER MAIN OR WATER SERVICES ARE LESS THAN 18" ABOVE THE SEWER VERTICALLY SHALL BE REINFORCED PRECAST CONCRETE PER ASTM C1244-02. EXTERIOR JOINTS SHALL CONFORM TO ASTM C1244-02 AND ELASTOMERIC GASKETS SHALL CONFORM TO ASTM F 477. THE SEWER AND EXISTING MATERIAL SHALL BE USED WHENEVER WATER MAIN DEPTH IS BELOW WATER MAIN DEPTH.
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 - COMPACTED MATERIAL BELOW SEWER SHALL CONFORM TO STANDARD SPEC.
 - HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL COMPLY WITH SECTION 310.02 OF THE STANDARD SPECIFICATIONS FOR SEWERS AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.

WATER MAIN CROSSING DETAIL

VILLAGE OF ROMEOVILLE NOTES

WATERMAIN

- WATERMAIN MUST HAVE A MINIMUM COVER DEPTH OF 5'-6". ALL WATERMANS MUST BE WRAPPED IN POLYETHYLENE USING METHOD 'B'. ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBA4 IRON) ONLY.
- VALVE VAULT REQUIREMENTS:
 - MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478.
 - NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.
 - MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.
 - MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE BEING LAID.
- ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS, AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A 6" WIDE HEALING BAND OR RUBBER AND MASTIC. THE BAND SHOULD BE APPLIED AT A NET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.
- PIPE CONNECTIONS AT MANHOLE - CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO COR-N-SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.
- JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPPERSEAL AND SHALL MEET ASTM C 443 AND ASTM C 361 REQUIREMENTS.
- THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST.
- HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPUP SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL.
- BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.
- A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
- ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.
- VALVE VAULTS: VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES FIVE (5) FEET IN DIAMETER. AS NOTED ON THE PLANS, THE FRAME AND COVER SHALL BE EAST JORDAN #10223 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE." ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) E/W INFRA-RISER RUBBER COMPOSITE.

SANITARY SEWER

- PIPES MUST HAVE A MINIMUM COVER DEPTH OF 5 FEET. PIPES MUST BE PVC SDR 26 WHEN LESS THAN 15 FEET DEEP, PVC SDR 21 WHEN 15-20 FEET DEEP, AND PVC SDR 18 WHEN OVER 20 FEET DEEP.
- ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- PLEASE USE AN INTERNAL/EXTERNAL ADAPTOR SEAL ON SANITARY MANHOLES. ONE VENDOR OF THIS SEAL IS ADAPTOR INC.
- SANITARY MANHOLE FRAME AND COVER SHALL BE EAST JORDAN 102223 EMBOSSED WITH "SANITARY" AND "VILLAGE OF ROMEOVILLE." ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR THE MAIN AT THE MANHOLE WALL.
- INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 481 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LANTANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POKETS, AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A NET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.
- PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL. INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 481 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LANTANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POKETS, AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A NET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) E/W INFRA-RISER RUBBER COMPOSITE.
- ALL CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 102223 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE."
- PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- SEE ROMEOVILLE GATEWAY PLANS AND STORMWATER MANAGEMENT REPORT BY V3 COMPANIES FOR OVERALL DEVELOPMENT DRAINAGE CALCULATIONS.

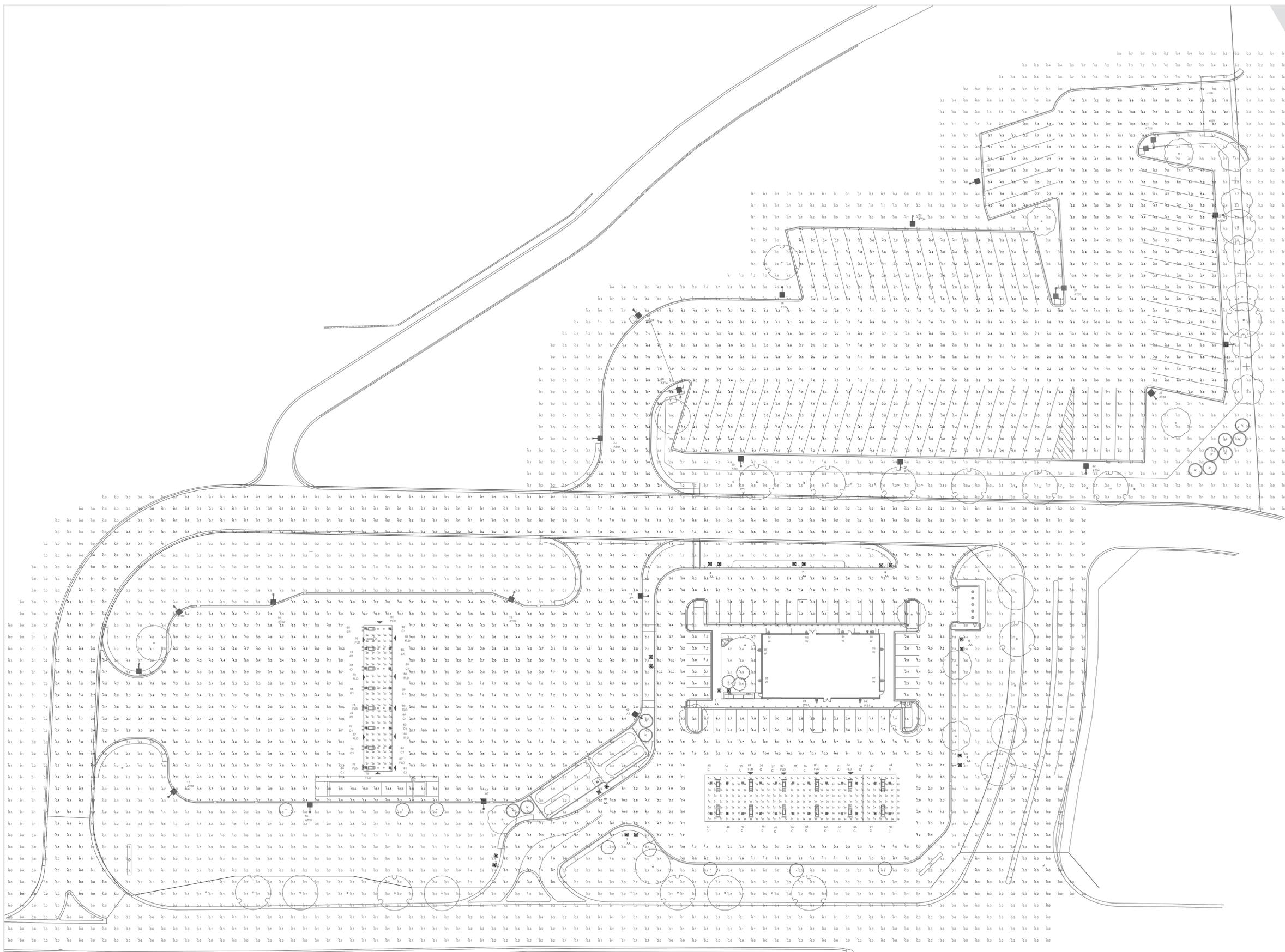
STORM SEWER

- STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C433, AND ASTM C1619.
- VILLAGE OF ROMEOVILLE RESERVES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWER.
- FOR CLOSED LID STRUCTURES, FRAME AND COVER SHALL BE EAST JORDAN 102223 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE."
- INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED. INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 481 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LANTANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POKETS, AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A NET MILS SPREADING RATE OF BETWEEN 100 AND 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS. MINIMUM OF TWO (2) ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE (3) RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) E/W INFRA-RISER RUBBER COMPOSITE.
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- PER VILLAGE OF ROMEOVILLE STANDARDS, ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- SEE ROMEOVILLE GATEWAY PLANS AND STORMWATER MANAGEMENT REPORT BY V3 COMPANIES FOR OVERALL DEVELOPMENT DRAINAGE CALCULATIONS.

EROSION AND SEDIMENT CONTROL

- ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENT CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OR WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.
- IF TEMPORARY DISPOSED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.
- EROSION CONTROL BLANKET, TEMPORARY SEEDING, & PERMANENT SEEDING TO BE PROVIDED AS SPECIFIED ON THE EROSION CONTROL PLAN TO CONTROL DUST.

DDI	10/2/2017	ISSUED FOR BID
JMM	8/18/2017	VILLAGE COMMENTS
JMM		REVISIONS
BY	DATE	
NO		
Kimley»Horn © 2017 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WASHINGTON STREET, SUITE 1100, ST. LOUIS, MO 63102 PHONE: 636-487-2500 WWW.KIMLEY-HORN.COM		
SCALE: AS NOTED	DESIGNED BY: DDL	DRAWN BY: RMM
		CHECKED BY: JMM
THORNTONS CONSTRUCTION DETAILS		
THORNTONS IL-53 & JOLIET ROAD ROMEOVILLE, IL		
ORIGINAL ISSUE: 06/20/2017		
KHA PROJECT NO. 168359008		
SHEET NUMBER		
C7.0		



NOTE:
 FOOTCANDLES LEVEL CALCULATED AT GRADE USING INITIAL LUMEN VALUES
 * POLE MOUNTED FIXTURE TYPES "AT" AND "AT2" ARE MOUNTED ON A 27 FT POLE ATOP AN 18 INCH HIGH CONCRETE BASE (POLE TO FACTORY OUT LENGTH)
 * POLE MOUNTED FIXTURE TYPES "AT3" AND "AT4" ARE MOUNTED ON A 27 FT POLE ATOP AN 18 INCH HIGH CONCRETE BASE
 * FIXTURE TYPE "AW" IS SUPPLIED BY CREE OR RED LEONARD ASSOCIATES

LUMINAIRE LOCATION SUMMARY			LUMINAIRE LOCATION SUMMARY		
LUM. NO.	LABEL	MTG. HT.	LUM. NO.	LABEL	MTG. HT.
1	AA	16.833	50	C	15
2	AA	16.833	51	C	15
3	AA	16.833	52	C	15
4	AA	16.833	53	C	15
5	AA	16.833	54	C	15
6	AA	16.833	55	C	15
7	AA	16.833	56	C	15
8	AA	16.833	57	C	15
9	AA	16.833	58	CI	17.5
10	AA	16.833	59	CI	17.5
11	AT	29.67	60	CI	17.5
12	AT	29.67	61	CI	17.5
13	AT	29.67	62	CI	17.5
14	AT2	29.67	63	CI	17.5
15	AT2	29.67	64	CI	17.5
16	AT2	29.67	65	CI	17.5
17	AT2	29.67	66	CI	17.5
18	AT2	29.67	67	CI	17.5
19	AT2	29.67	68	CI	17.5
20	AT2	29.67	69	CI	17.5
21	AT2	29.67	70	CI	17.5
22	AT2	29.67	71	CI	17.5
23	AT2	29.67	72	CI	17.5
24	AT2	29.67	73	CI	17.5
25	AT2	29.67	74	FLO	20
26	AT2	29.67	75	FLO	20
27	AT2	29.67	76	FLO	20
28	AT2	29.67	77	FLO	20
29	AT2	29.67	78	FLO	20
30	AT2	29.67	79	FLO	20
31	AT2	29.67	80	FLO	20
32	AT2	29.67	81	FLO	20
33	AT2	29.67	82	FLO	20
34	C	15	83	FLO	20
35	C	15	84	FLO	20
36	C	15	85	FLO	20
37	C	15	86	FLO	20
38	C	15	87	FLO	20
39	C	15	88	FLO	20
40	C	15	89	FLO	20
41	C	15	90	W	10
42	C	15	91	W	10
43	C	15	92	W	10
44	C	15	93	W	10
45	C	15	94	W	10
46	C	15	95	W	10
47	C	15	96	W	10
48	C	15	97	W	10
49	C	15	98	WS1	10
			99	WS1	10

FOOTCANDLE LEVEL CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
INTERNAL ROADWAY	0.27	3.1	0.0	N.A.	N.A.
RETAIL CANOPY	28.81	37	18	1.80	2.07
RETAIL PAVED AREA	3.80	10.8	0.1	36.00	108.00
TRUCK CANOPY	29.30	35	11	2.67	3.18
TRUCK PARKING AREA	3.80	14.8	0.2	18.00	72.00
TRUCK PAVED AREA	4.43	25.7	0.4	18.00	51.75
UNDEFINED AREA	1.19	13.1	0.0	N.A.	N.A.

LUMINAIRE SCHEDULE		DESCRIPTION	
SYMBOL	QTY	DESCRIPTION	MANUFACTURER
10	1	CL41TR-FLAC-04L-100W-8K (THRU) (NOT A CREE SUPPLIED FIXTURE OR POLE)	CREE INC
2	1	OSG4BK-C50-H2-A-M-AME-40L-27K-L-8K	OSG4BK
6	1	OSG4BK-C50-H2-A-M-AME-40L-27K-L-8K	OSG4BK
2	1	OSG4BK-C50-H2-A-M-AME-40L-27K-L-8K	OSG4BK
12	1	OSG4BK-C50-H2-A-M-AME-40L-27K-L-8K	OSG4BK
24	1	CAN-304-SL-RS-06-EUL-WH-70-57K	CREE INC
16	1	CAN-304-SL-RS-04-EUL-WH-70-57K	CREE INC
16	1	FLO-EDS-REAR-AB-E-L-525-40K	CREE INC
8	1	SEC-ED-3MM-04-E-L-525-40K	CREE INC
2	1	CLP642	N/A

JOLIET ROAD

IL-53

REV.	BY	DATE	DESCRIPTION
R1	TAS	8/19/17	REMOVED LIGHT POLES
R2	TAS	9/29/17	ADDED TYPE 'AA' FIXTURE

PROJECT NAME:
THORNTONS P-1709
ROMOVEVILLE, IL
 DRAWING NUMBER:
RL-4649-S2-R2



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