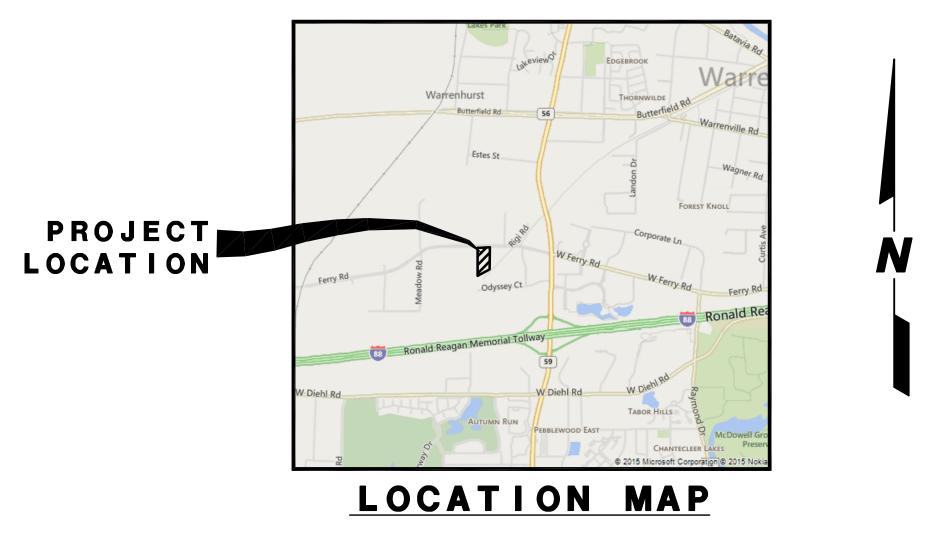
IRON GATE MOTOR CONDOS BUILDING 3 PHASE 2A AND PHASE 2B NAPERVILLE, ILLINOIS WATERMAIN-SANITARY SEWER-PRIVATE DRIVEWAY AND DRAINAGE IMPROVEMENTS

(CITY TRACKING NO. 18-10000086) (OWN CLOUD NAME: IRON GATE PHASE 2B - PZC20-PZC20-1-065)

LEGE	ND
EXISTING PROPOSE	D DESCRIPTION
	MANHOLE CATCH BASIN INLET CLEANOUT SLOPE INLET BOX HEADWALL END SECTION STORM SEWER SANITARY SEWER WATERMAIN VALVE & BOX WATER VALVE IN VAULT FIRE HYDRANT CONTOURS ELEVATIONS STREET LIGHT
	ACTUAL Cn PHASE 2B = 94.4
FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. TOLL FREE TEL. 1-800-892-0123 or 811	DATE: RELEASED FOR PLAN REVIEW AND PERMIT PROCESSING ONLY. IF USED FOR BIDDING PURPOSES, THOSE PARTIES CONCERNED SHALL BE ADVISED THAT REVISIONS MAY BE REQUIRED PRIOR TO PLAN APPROVAL. NOT ISSUED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY OF NAPERVILLE AND PERMITTED AS REQUIRED.
IRON GATE MOTOR CO 2228 FE NAPERVILI	<u>prepared for:</u> ONDOS DEVELOPMENT COMPANY ERRY ROAD, #101 LE, ILLINOIS 60563 O) 945–1085

FINAL SITE DEVELOPMENT PLANS FOR



BENCHMARKS

SITE BENCHMARK NO. 191 MAG. NAIL SET IN PATH 1' EAST OF FIRST SANITARY MANHOLE WEST OF ENTRANCE. ELEVATION = 723.87

DUPAGE COUNTY BENCHMARK:

DUPAGE COUNTY BENCHMARK W134001 - MONUMENT AT SOUTHWEST CORNER OF IL. ROUTE 59 AND IL ROUTE 56 (BUTTERFIELD ROAD) WITH ACCESS COVER STAMPED "DUPAGE COUNTY MAPS AND PLATS"

ELEVATION = 717.25 NGVD29

CITY OF NAPERVILLE BENCHMARK:

BERNSTEN 3D TOP SECURITY MONUMENT CONSISTING OF A $\frac{2}{8}$ " DIA. STAINLESS STEEL DATUM POINTON THREADED 윦' x 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCASED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER ELEVATION = 711.40 NAVD 1988 (+0.27 TO EQUAL NGVD PROJECT DATUM)

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PREPARED BT:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199 E-Mail: cadd@cemcon.com Website: www.cemcon.com

		REV
NO.	DATE	SHEETS
Λ	03-15-21/JGC	1, 2, 5–7, 9–16

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STATE OF ILLINOIS) SS

COUNTY OF DU PAGE)

I, RANDALL W. BUS , A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF IRON GATE MOTOR CONDOS DEVELOPMENT COMPANY, BY CEMCON, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS

DATED THIS 15TH DAY OF MARCH, A.D., 2021.

REGISTERED PROFESSIONAL . Kamlall W ENGINEER

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-03238 MY LICENSE EXPIRES ON NOVEMBER 30, 2021

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184-002937 EXPIRES APRIL 30, 2021

NOTE : UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

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NO.	DATE	SHEETS
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JOB NO. 829.007 DIR: 904117 COMPLETION DATE: 12-16-20 SHEET 1 OF 16 CITY OF NAPERVILLE **General Notes**

THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).

3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.

4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.

6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.

THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.

8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6082) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.

9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.

10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6082 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).

11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.

12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

OTHER GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

2. IF THE ENGINEER IS RETAINED FOR CONSTRUCTION STAKING SERVICES, THE ENGINEER AND T.E.D. WILL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING THAT IS TO BE DONE. IF ENGINEER IS CONTRACTED BY OWNER OR CONTRACTOR FOR CONSTRUCTION STAKING SERVICES. EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.

4. AFTER CONSTRUCTION STAKING IS PERFORMED, BUT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER, AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.

5. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ON GRADE AND COORDINATE WITH OTHER CONTRACTORS ALL UNDERGROUND STRUCTURE FRAMES SUCH AS CATCH BASINS, INLETS, MANHOLES, HYDRANTS, BUFFALO BOXES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.

6. CONTRACTORS SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS ON A DAILY BASIS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS (INCLUDING UTILITY LOCATIONS) PRIOR TO THE INSTALLATION OR FABRICATION OF ANY MATERIALS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

CITY OF NAPERVILLE <u>Department of Public Utilites – Water/Wastewater General</u> <u>Notes</u>

- 1. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT WILLIAM BOLSTER AT (630) 420-4122 FOR SCHEDULING.
- 2. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE.
- 3. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO. MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER.
- 4. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES, FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT WEDGE ACTION TYPE MEGALUG 1100 SERIES AS MANUFACTURED BY EBBA IRON, INC. OR UNI-FLANGE BLOCKBUSTER 1400 SERIES AS MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51, FOR NOMINAL PIPE SIZES 3" THROUGH 48".
- 5. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390.
- 6. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG
- 7. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.
- 8. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.
- 9. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM PRESSURE RATING SHALL BE 150 PSI.
- 10. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATEROUS OR KENNEDY.
- 11. STAINLESS STEEL NUTS. BOLTS/T-BOLTS. AND WASHERS. TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIFLD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL
- 12. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES.
- 13. WATER MAINS SHALL BE SUBJECTED TO A HYDROSTATIC/LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST PRESSURE SHALL BE NO LESS THAN 150 PSI FOR A PERIOD OF 4 HOURS AND NOT VARY BY MORE THAN \pm 5 PSI. DURING THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GLYCERIN OR OIL FILLED. WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI, 4 " MINIMUM DIAL SIZE. WATER RECOVERY TEST SHALL BE COMPLETED AT THE END OF THE TESTING PERIOD TO SHOW ACTUAL LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION.
- 14. THE CITY OF NAPERVILLE DPU-W/WW DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AN ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS.
- 15. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE.
- 16. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
- 17. ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY COMPANY.
- 18. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.

PREPARED FOR: IRON GATE MOTOR CONDOS DEVELOPMENT COMPANY 2228 FERRY ROAD, #101 NAPERVILLE, ILLINOIS 60563 (630) 945-1085



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PREPARED BY

CONSTRUCTION SPECIFICATIONS - GENERAL NOTES

SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS.

CITY OF NAPERVILLE

<u>Department of Public Utilites – Water/Wastewater General</u> <u>Notes</u>

19. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE - PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10" (254 MM) HG SHALL BE PLACE ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" (229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9" (229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE OF MANHOLE:

a)	48-INCH DIAMETER - 60 SECONDS	
ь)́	60-INCH DIAMETER - 75 SECONDS	
c)	72-INCH DIAMETER - 90 SECONDS	
d)	84-INCH DIAMETER - 105 SECONDS	3

ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.

- 20. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK. THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. ALL DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVISED.
- 21. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS.
- 22. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS 50, MINIMUM) AND ENCASED IN POLYWRAP.
- 23. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
- 24. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM CLEARANCE REQUIREMENT.
- 25. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM.
- 26. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.

OTHER SANITARY SEWER AND WATERMAIN NOTES

6. CONNECTIONS TO EXISTING SANITARY SEWER AND WATER SYSTEMS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

- 10. THE COST OF PIPE BEDDING WILL NOT BE PAID FOR

A.)

11. DEFLECTION TESTING FOR FLEXIBLE THERMOPLASTIC PIPE:

THE PIPELINE PULLING A "G MANHOLE TO ACCORDANCE IN THE SPECI BE USED TO
WHEREVER PO

- B.) THE UPSTREAM LINES.
- SHALL BE REPLACED.

A.)	DEFLECTION O EXCEED 5.0% PIPE. "BASE THE FOLLOWIN
	AVG ID = AVG

WHERE:

13. ALL SANITARY SEWERS SHALL PASS INFILTRATION AND EXFILTRATION AND AIR TESTS AND DEFLECTION TESTING AND SANITARY SEWER MANHOLES SHALL PASS VACUUM TESTING MEETING THE APPROVAL OF THE CITY OF NAPERVILLE.

REVISIONS DESCRIPTION DESCRIPTION DATE NO. DATE 103-15-21/JGC REVISED PER CITY OF NAPERVILLE REVIEW LETTER DATED 01-18-21

WATERMAIN SERVICES SHALL HAVE A MINIMUM OF 5.0 FEET OF COVER AND SHALL BE RUN IN STRAIGHT ALIGNMENT UNLESS SPECIFICALLY SHOWN ON THE PLANS.

2. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.

3. THE CONTRACTOR SHALL BEWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL EXCAVATE AROUND UTILITIES TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION.

4. "BAND-SEAL" OR SIMILAR NON-SHEAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.

5. ALL NEW SANITARY SEWERS SHALL HAVE WYES FOR PROPOSED BUILDING SERVICES. ALL CONNECTIONS TO EXISTING SANITARY SEWERS NOT HAVING WYES SHALL BE MADE WITH A CASCADE STAINLESS STEEL SEWER SADDLE FOR BUILDING SERVICES AND WITH A MANHOLE FOR SEWER EXTENSIONS. ALL TAPS SHALL INCLUDE A PROPERLY INSTALLED HUB WYE SADDLE.

WATER SERVICES SHALL INCLUDE THE NECESSARY LENGTH OF TYPE "K" COPPER WATER TUBE OF THE SIZE SHOWN ON THE PLANS, CORPORATION STOP, CURB STOP, AND SERVICE BOX, ALL AS REQUIRED BY THE MUNICIPALITY, AND ALL NECESSARY LABOR, TOOLS, EQUIPMENT, EXCAVATION & BACKFILL, FOR A COMPLETE INSTALLATION AS SHOWN ON THE PLANS. TRENCH BACKFILL WILL BE PAID FOR SEPARATELY, WHEN REQUIRED.

8. GRANULAR TRENCH BACKFILL SHALL BE USED IN ALL LOCATIONS WHERE THE PROPOSED UNDERGROUND UTILITY IS TO BE CONSTRUCTED UNDER PERMANENT TYPE PAVEMENTS, DRIVEWAYS, OR SIDEWALKS: IN ANY UTILITY TRENCH OVER WHICH ANOTHER UTILITY WILL PASS; OR AS DIRECTED BY THE ENGINEER. TRENCH BACKFILL SHALL BE EXTENDED TWO (2) FEET ON EACH SIDE OF THE PERMANENT TYPE SURFACE.

9. ALL SANITARY SEWER SHALL BE CONSTRUCTED WITH STONE BEDDING (IDOT GRADATION CA-11) IN ACCORDANCE WITH ASTM D-2321-89 CLASS IB.

SEPARATELY BUT INCLUDED IN THE CONTRACT UNIT PRICES OF THE VARIOUS SEWER ITEMS.

> SHALL BE TESTED FOR EXCESS DEFLECTION BY 'GO-NO GO" MANDREL THROUGH THE PIPE FROM MANHOLE. THE MANDREL SHALL BE SIZED IN WITH SECTION 31-1.11 C (4), AND AS SPECIFIED IAL PROVISIONS. A "DEFLECTOMETER" MAY ALSO CHECK AND RECORD DEFLECTION.

DSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS

C.) WHERE DEFLECTION IS FOUND TO BE IN EXCESS OF ALLOWABLE TESTING LIMITS, THE CONTRACTOR SHALL EXCAVATE TO THE POINT OF EXCESS DEFLECTION AND CAREFULLY COMPACT AROUND THE POINT WHERE EXCESS DEFLECTION WAS FOUND. THE LINE SHALL THEN BE RETESTED FOR DEFLECTION. HOWEVER, SHOULD AFTER THE INITIAL TESTING THE DEFLECTED PIPE FAIL TO RETURN TO THE ORIGINAL SIZE (INSIDE DIAMETER), THE LINE

12. DEFLECTION LIMITS FOR FLEXIBLE THERMOPLASTIC PIPE:

OF POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT OF THE "BASE I.D." (INTERNAL DIAMETER) OF THE I.D." SHALL BE CALCULATED IN ACCORDANCE WITH

AVG ID = AVG OD - 2 (1.06)t TOLERANCE PACKAGE = $(A^2 + B^2 + B^2 + C^2)1/2$

A = OD TOLERANCE (ASTM D3034)B = EXCESS WALL THICKNESS TOLERANCE = 0.06tC = OUT-OF-ROUNDNESS TOLERANCE = 0.15(AVG OD)t = MINIMUM WALL THICKNESS (ASTM D-2241)

BASE ID = AVG. ID - TOLERANCE PACKAGE

PROTECTION OF WATERMAIN AND WATER SERVICE

WATERMAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOWS:

a) WATERMAINS:

- 1.) HORIZONTAL SEPARATION:
- A) WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
- B) WATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
- I) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET; AND
- II) THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
- III) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
- C) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 OF THE I.E.P.A. TECHNICAL POLICY STATEMENTS, WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
- 2.) VERTICAL SEPARATION:
- A) A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
- B) THE DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111, OR THE DRAIN OR SEWER SHALL BE SLEEVED WITH STEEL PIPE OR CONSTRUCTED OF REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76 WITH GASKETED JOINTS CONFORMING TO ASTM C-361 (STORM SEWERS ONLY), FOR THE ENTIRE LENGTH OF STORM SEWER BETWEEN STRUCTURES WHEN STORM SEWER IS PERPENDICULAR TO WATERMAIN, IF:
- I) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR
- II) THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.
- C) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.
- D) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FFFT
- E) EXCEPT IN THE CASE OF DIRECT CONFLICT DO NOT LOWER WATERMAIN TO CLEAR OBSTRUCTIONS.
- F) WHEN WATERMAIN CROSSES UNDER ANY SEWER FOLLOW THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" MAY 1996, FIFTH EDITION (SEE PAGE 162, DRAWING NUMBER 19).

b) WATER SERVICE LINES:

- 1) THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWER, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (a) ABOVE.
- 2) WATER PIPE DESCRIBED IN (a) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.
- c) SPECIAL CONDITIONS ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (a) AND (b) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATERMAIN MATERIAL IS PROPOSED.
- d) WATERMAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
- e) WATERMAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.

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CONST	RUCTION SF	PECIFICATIONS	- GENERAL N	NOTES
IRON GATE MO	TOR CONDO	S BUILDING 3 F	HASE 2A AND	PHASE 2B
FILE NAME: GENNOTES	DSGN. BY: RWB	JOB NO.: 829.007	FLD. BK./PG.:	SHEET NO.
DIR: 904117	DRN. BY: JGC	DATE: 12–16–20	SCALE: 1" = NONE	02 of 16

CITY OF NAPERVILLE Storm Sewer Notes

1. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.

2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.

3. THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:

3a. REINFORCED CONCRETE PIPE (RCP) IS REQUIRED IN PUBLIC RIGHT-OF-WAY - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433 AND SHALL SPAN FROM STRUCTURE TO STRUCTURE AT WATERMAIN CROSSINGS. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.

3b. NON-REINFORCED CONCRETE PIPE IS PERMITTED FOR ANY STORM SEWER WITHIN AN EASEMENT OUTSIDE OF PUBLIC RIGHT OF WAY - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433 AND SHALL SPAN FROM STRUCTURE TO STRUCTURE AT WATERMAIN CROSSINGS.

3c. DUCTILE IRON PIPE (DIP) IS PERMITTED FOR ANY STORM SEWER WITHIN AN EASEMENT OUTSIDE OF PUBLIC RIGHT OF WAY - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE.

3d. POLYVINYL CHLORIDE PIPE (PVC) IS PERMITTED FOR ANY STORM SEWER WITHIN AN EASEMENT OUTSIDE OF PUBLIC RIGHT OF WAY - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C. AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212.

3e. HIGH DENSITY POLYETHYLENE PIPE (HDPE) IS PERMITTED FOR ANY STORM SEWER WITHIN AN EASEMENT OUTSIDE OF PUBLIC RIGHT OF WAY - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.

4. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.

5. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

6. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS: CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL, WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.

7. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.

8. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED FOUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.

9. MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.

10. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.

A) PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.

B) BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL. C) DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR

APPROVED EQUAL. D) MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.

E) NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC. EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.

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<u>Storm Sewer Notes</u>

11. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.

12. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

13. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON-SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING.

WHEN ADJUSTMENTS ARE NECESSARY, THEY SHALL BE PERFORMED WITH A MAXIMUM OF 2 PRECAST CONCRETE RINGS SET IN A CONTINUOUS LAYER OF PREFORMED BITUMINOUS MASTIC. THE MAXIMUM HEIGHT OF ADJUSTMENTS SHALL BE 12 INCHES. TWO INCH CONCRETE RINGS SHALL ONLY BE USED WHEN THE ADJUSTMENT IS LESS THAN 3 INCHES.

14. ADJUSTMENTS LESS THAN 4 INCHES MAY BE MADE USING HARD COMPOSITE RUBBER TYPE RINGS, SUCH AS GNR OR APPROVED EQUAL. ONLY ONE TYPE OF ADJUSTING RING MAY BE USED ON A STRUCTURE; COMBINING BOTH CONCRETE AND HARD COMPOSITE RUBBER RINGS ON A STRUCTURE IS NOT PERMITTED.

15. ALL STORM SEWER CASTINGS MUST INCLUDE "NO DUMPING. DRAINS TO RIVER" LOGOS.

16. ALL PIPE OUTLETS AND RIPRAP SHALL BE FLUSH WITH THE GROUND AND CONSTRUCTION OUTFALLS MUST NOT RESULT IN AN INCREASE IN GROUND ELEVATION IN THE FLOODPLAIN.

CITY OF NAPERVILLE <u>Erosion Control and Drainage Notes</u>

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.

3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

4. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.

5. ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.

6. ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED.

7. STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.

8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

9. IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

OTHER EROSION CONTROL NOTES

1. SEE STORMWATER POLLUTION PREVENTION PLAN FOR OTHER EROSION CONTROL NOTES.



PREPARED BY

CONSTRUCTION SPECIFICATIONS - GENERAL NOTES

CITY OF NAPERVILLE Geometric and Paving Notes

1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.

2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY FNGINFFR

3. THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.

4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.

5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.

OTHER GEOMETRIC AND PAVING AND EARTHWORK NOTES

1. WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

A. CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM.

B. STRIPPING OF TOPSOIL FROM ALL STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD AND OTHER DESIGNATED STRUCTURAL AREAS.

C. STOCKPILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER. TOPSOIL STOCKPILED FOR FUTURE USE SHALL BE RELATIVELY FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES LARGER THAN ONE (1) INCH DIAMETER, OR OTHER LITTER AND WASTE PRODUCTS INCLUDING EXTRANEOUS MATERIALS NOT CONDUCIVE TO PLANT GROWTH. TOPSOIL SHALL BE STOCKPILED IN SEQUENCE TO ELIMINATE ANY REHANDLING OR DOUBLE MOVEMENTS BY THE CONTRACTOR. FAILURE TO PROPERLY SEQUENCE THE STOCKPILING OPERATIONS SHALL NOT CONSTITUTE A CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN FRONT YARDS, OVERLAND DRAINAGE SWALES (FLOOD ROUTING AREAS), IN PROPOSED UTILITY LOCATIONS, IN UTILITY EASEMENTS OR IN THE RIGHT-OF-WAY.

D. REMOVAL OF UNSUITABLE MATERIALS AS SPECIFIED FROM ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS. OWNER TO VALIDATE UNSUITABLE AREAS BY ON-SITE MEASURING.

E. CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS.

F. EXCAVATION AND GRADING OF THE OPEN SPACE, AND/OR YARD AREAS PER PLAN INCLUDING CONSTRUCTION OF BERMS, ETC.

G. PLACEMENT AND COMPACTION OF STRUCTURAL MATERIAL TO THE DESIGN SUBGRADE ELEVATIONS AS REQUIRED BY THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT AND/OR TOPSOIL REPLACEMENT THICKNESS MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.

H. IF REQUIRED, BORROW PIT EXCAVATION OF STRUCTURAL MATERIAL AND REFILL OF PIT WITH NON-STRUCTURAL MATERIAL.

I. PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS.

J. MOVEMENT AND COMPACTION OF SPOIL MATERIAL FROM THE CONSTRUCTION OF UNDERGROUND UTILITIES.

K. BACKFILLING OF CURBS AND/OR PAVEMENT AND SIDEWALK AFTER INSTALLATION OF SAME BY THE PAVING CONTRACTOR.

L. FINAL SHAPING AND TRIMMING TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED GRADE ELEVATIONS.

M. SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES. THE CONTRACTOR SHALL EXAMINE THE DRAINAGE PATTERNS SHOWN ON THE PLANS AND MAKE CERTAIN THAT ALL GUTTER FLAGS AND PAVEMENTS ARE PITCHED PROPERLY TO ACHIEVE THIS DRAINAGE PATTERN.

3. MATERIALS TESTING, IF REQUIRED BY THE MUNICIPALITY, SHALL BE PROVIDED BY THE CONTRACTOR, THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE VARIOUS ITEMS OF WORK.

4. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.

OTHER GEOMETRIC AND PAVING AND EARTHWORK NOTES

5. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

6. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. NO UNDERCUT SHALL BE PERFORMED WITHOUT AUTHORIZATION FROM OWNER AND ASSIGNMENT OF AN EWO NUMBER.

7. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.

8. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX INCHES (6") OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.

9. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"): IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT GREATER THICKNESSES, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.

10. EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-THREE PERCENT (93%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD). OR TO SUCH OTHER DENSITY AS MAY BE DÉTERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER.

11. THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTION 301.03 OF THE IDOT SPECIFICATIONS).

12. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SUBGRADE AREAS, BUILDING PADS, AND YARD/OPEN SPACE AREAS SHALL BE WITHIN A TOLERANCE OF PLUS OR MINUS ONE-TENTH OF A FOOT (0.1') OF DESIGN SUBGRADE ELEVATIONS.

13. THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AND SOILS ENGINEER. ANY UNDERCUT AND REPLACE NECESSARY WILL BE MEASURED FOR PAVEMENT AT THE CONTRACT UNIT PRICE.

14. ALL COMPENSATORY STORAGE SHALL BE OPERATIONAL PRIOR TO PLACEMENT OF FILL, STRUCTURES, OR OTHER MATERIALS IN REGULATORY FLOODPLAIN. GRADING IN FLOODPLAIN AREAS SHALL BE DONE IN SUCH A MANNER THAT THE EXISTING FLOODPLAIN STORAGE IS MAINTAINED AT ALL TIMES.

CITY OF NAPERVILLE

Traffic Control and Protection Notes

1. ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY, ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.

2. PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE, SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.

3 THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SUCH THAT THE SAFETY OF VEHICLES. AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.

4. ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

5. LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY. UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.

6. ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE TRAFFIC CONTROL.

7. AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED: THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

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OTHER TRAFFIC CONTROL AND PROTECTION NOTES

1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND CITY A TRAFFIC CONTROL PLAN FOR ANY WORK THAT NECESSITATES SUCH A PLAN.

2. AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL FURNISH THE NAME OF THE INDIVIDUAL IN HIS DIRECT EMPLOY WHO IS TO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TRAFFIC CONTROL FOR THIS PROJECT. IF THE ACTUAL INSTALLATION AND MAINTENANCE ARE TO BE ACCOMPLISHED BY A SUBCONTRACTOR, CONSENT SHALL BE REQUESTED OF THE ENGINEER AT THE TIME OF THE PRECONSTRUCTION MEETING IN ACCORDANCE WITH ARTICLE 108.01 OF THE STANDARD SPECIFICATIONS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE FOREGOING REQUIREMENT FOR A RESPONSIBLE INDIVIDUAL IN HIS DIRECT EMPLOY TO SUPERVISE THIS WORK. THE CONTRACTOR WILL PROVIDE THE NAME OF ITS REPRESENTATIVE WHO WILL BE RESPONSIBLE FOR THE ADMINISTRATION OF THE TRAFFIC CONTROL PLAN.

3. THIS ITEM OF WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OR MAINTENANCE OF THIS IMPROVEMENT.

4. THE FOLLOWING TRAFFIC CONTROL REQUIREMENTS ARE OF SPECIAL IMPORTANCE. CONFORMANCE TO THESE REQUIREMENTS, HOWEVER, SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO ALL OTHER APPLICABLE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

5. THE GOVERNING FACTOR IN THE EXECUTION AND STAGING OF WORK FOR THIS PROJECT IS TO PROVIDE THE MOTORING PUBLIC WITH THE SAFEST POSSIBLE TRAVEL CONDITIONS ALONG THE ROADWAY THROUGH THIS CONSTRUCTION ZONE. THE CONTRACTOR SHALL SO ARRANGE HIS OPERATION AS TO KEEP THE CLOSING OF ANY LANE OF THE ROADWAY TO A MINIMUM.

TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELIZING DEVICES, WARNING LIGHTS, ARROWBOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION. INSTALLATION, AND ARRANGEMENT OF ALL TRAFFIC CONTROL DEVICES. SPECIAL ATTENTION SHALL BE GIVEN TO ADVANCE WARNING SIGNS DURING CONSTRUCTION OPERATIONS IN ORDER TO KEEP LANE ASSIGNMENT CONSISTENT WITH BARRICADE PLACEMENT AT ALL TIMES. THE CONTRACTOR SHALL COVER ALL TRAFFIC CONTROL DEVICES WHICH ARE INCONSISTENT WITH DETOUR OR LANE ASSIGNMENT PATTERNS DURING THE TRANSITION FROM ONE CONSTRUCTION STAGE TO ANOTHER.

8. CONSTRUCTION SIGNS REFERRING TO DAYTIME LANE CLOSURE DURING WORKING HOURS SHALL BE REMOVED OR COVERED DURING NON-WORKING HOURS.

9. THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC CONTROL WORK ON THIS PROJECT WITH ADJOINING OR OVERLAPPING PROJECTS, INCLUDING BARRICADE PLACEMENT NECESSARY TO PROVIDE A UNIFORM TRAFFIC DETOUR PATTERN. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES WHICH WERE FURNISHED, INSTALLED AND MAINTAINED BY HIM UNDER THIS CONTRACT. AND SUCH DEVICES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL SPECIFIC AUTHORIZATION FOR RELOCATION OR REMOVAL IS RECEIVED FROM THE ENGINEER.

10. THE CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES INSTALLED BY HIM ARE OPERATIONAL 24 HOURS A DAY, INCLUDING SUNDAYS AND HOLIDAYS.

11. THE CONTRACTOR SHALL PROVIDE A MANNED TELEPHONE ON A CONTINUOUS 24-HOUR-A-DAY BASIS TO RECEIVE NOTIFICATION OF ANY DEFICIENCIES REGARDING TRAFFIC CONTROL AND PROTECTION AND SHALL DISPATCH WORKERS, MATERIALS AND EQUIPMENT TO CORRECT ANY SUCH DEFICIENCIES. THE CONTRACTOR SHALL RESPOND TO ANY CALL FROM THE CITY OF NAPERVILLE TRANSPORTATION, ENGINEERING AND DEVELOPMENT BUSINESS GROUP AT (630) 420-6082 CONCERNING ANY REQUEST FOR IMPROVING OR CORRECTING TRAFFIC CONTROL DEVICES AND BEGIN MAKING THE REQUESTED REPAIRS WITHIN TWO HOURS FROM THE TIME OF NOTIFICATIONS.

12. WHEN TRAVELING IN LANES OPEN TO PUBLIC TRAFFIC, THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC. THESE VEHICLES SHALL ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH. TRAFFIC AND SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES SHALL NOT PARK WITHIN THE RIGHT- OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

13. ANY DROP OFF GREATER THAN THREE INCHES, BUT LESS THAN SIX INCHES WITHIN EIGHT FEET OF THE PAVEMENT EDGE SHALL BE PROTECTED BY TYPE I OR II BARRICADES EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 100 FOOT CENTER TO CENTER SPACING. IF THE DROP OFF WITHIN EIGHT FEET OF THE PAVEMENT EDGE EXCEEDS SIX INCHES, THE BARRICADES MENTIONED ABOVE SHALL BE PLACED AT 50 FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 2299, VERTICAL PANELS OR OTHER DELINEATING DEVICES MAY BE SUBSTITUTED FOR TYPE I OR II BARRICADES WITH THE APPROVAL OF THE ENGINEER.

14. CHECK BARRICADES SHALL BE PLACED IN WORK AREAS PERPENDICULAR TO TRAFFIC EVERY 100 FEET. ONE (1) PER LANE AND SHOULDER. TO PREVENT MOTORISTS FROM USING WORK AREAS AS A TRAVELED WAY. ADDITIONAL CHECK BARRICADES SHALL BE PLACED IN ADVANCE OF ANY HAZARD IN THE WORK AREAS WHICH WOULD ENDANGER A MOTORIST. CHECK BARRICADES SHALL BE TYPE I OR II AND EQUIPPED WITH A FLASHING LIGHT.

15. PLACEMENT OF ALL SIGNS AND BARRICADES SHALL PROCEED IN THE DIRECTION OF FLOW OF TRAFFIC. REMOVAL OF ALL SIGNS AND BARRICADES SHALL START AT THE END OF THE CONSTRUCTION AREAS AND PROCEED TOWARD ONCOMING TRAFFIC UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

16. DELAYS TO THE CONTRACTOR CAUSED BY COMPLYING WITH THESE REQUIREMENTS WILL BE CONSIDERED INCIDENTAL TO THE ITEM FOR TRAFFIC CONTROL AND PROTECTION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

17. THIS ITEM OR WORK WILL BE MEASURED ON A LUMP SUM BASIS FOR FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING THE TRAFFIC CONTROL DEVICES REQUIRED IN THE PLANS AND THESE SPECIAL PROVISIONS. PAYMENT FOR TRAFFIC CONTROL AND PROTECTION SHALL BE CONSIDERED AS INCLUDED INCLUDED IN THE WORK BEING DONE OR AS SPECIFIED IN THE

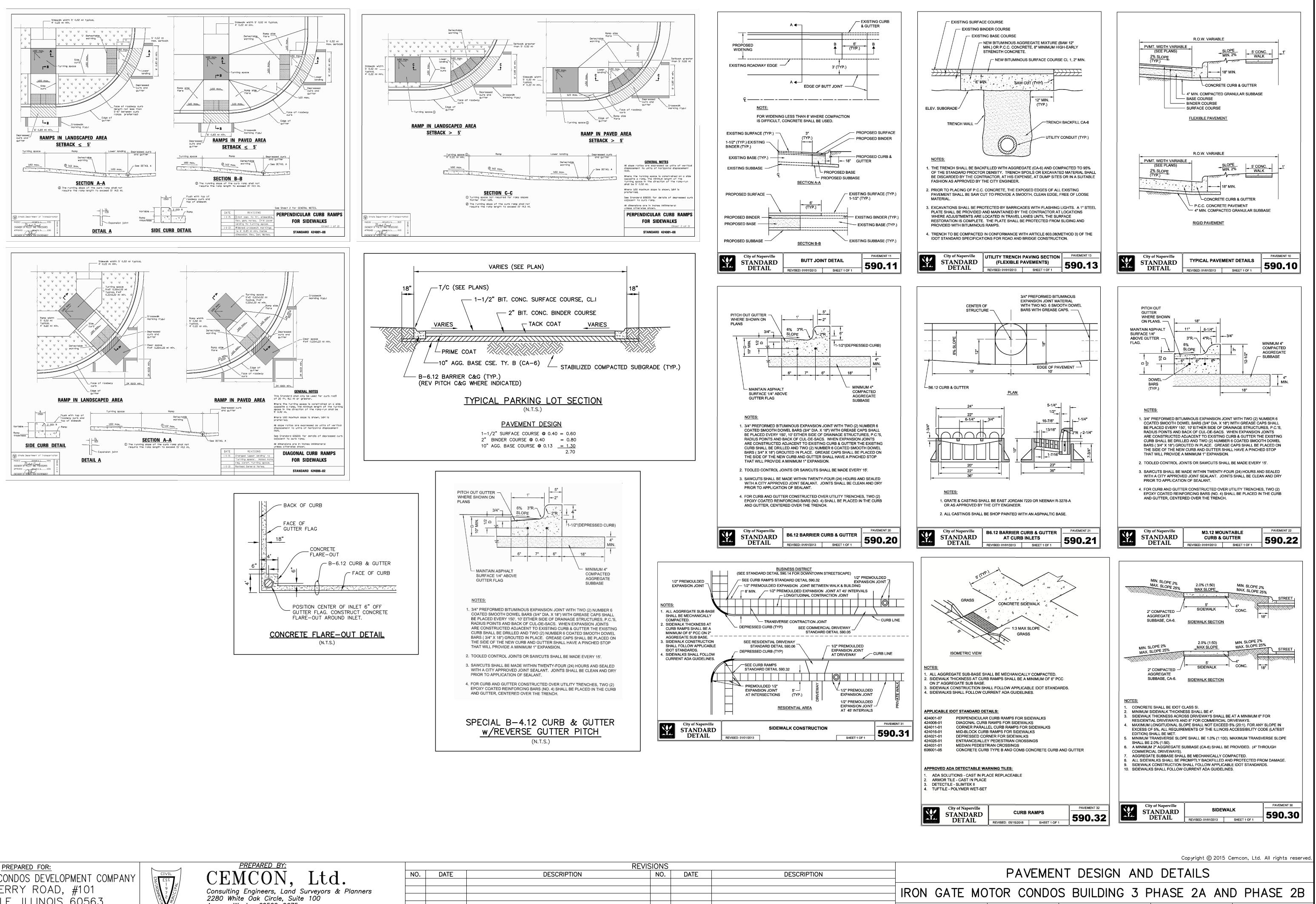
18. ADJACENT ROADWAYS MUST REMAIN OPEN TO TWO-WAY TRAFFIC AT ALL TIMES UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

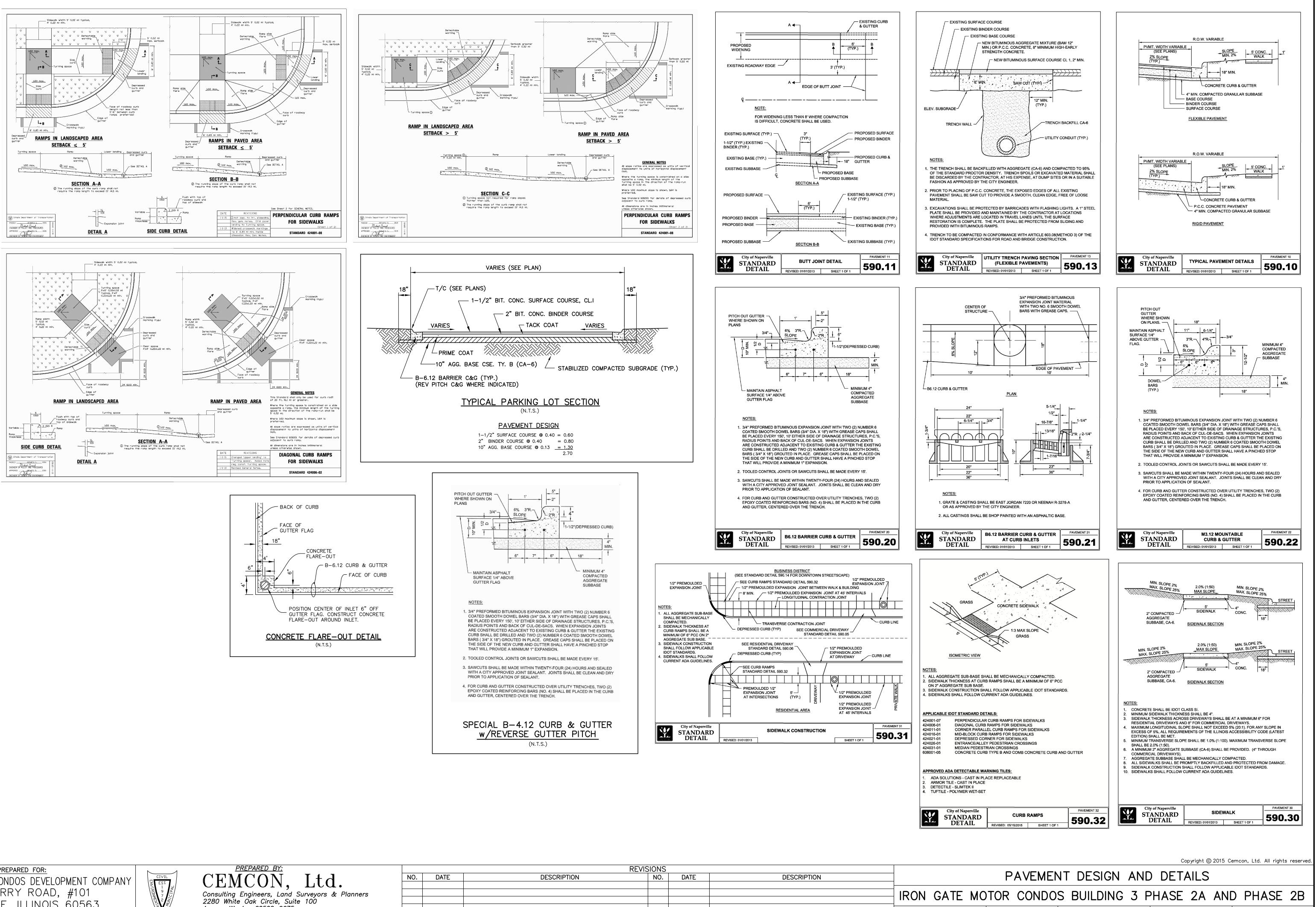
19. IF NECESSARY, ANY TEMPORARY LANE CLOSURES ON ADJACENT ROADWAYS MUST BE COORDINATED WITH AND APPROVED BY CITY STAFF.

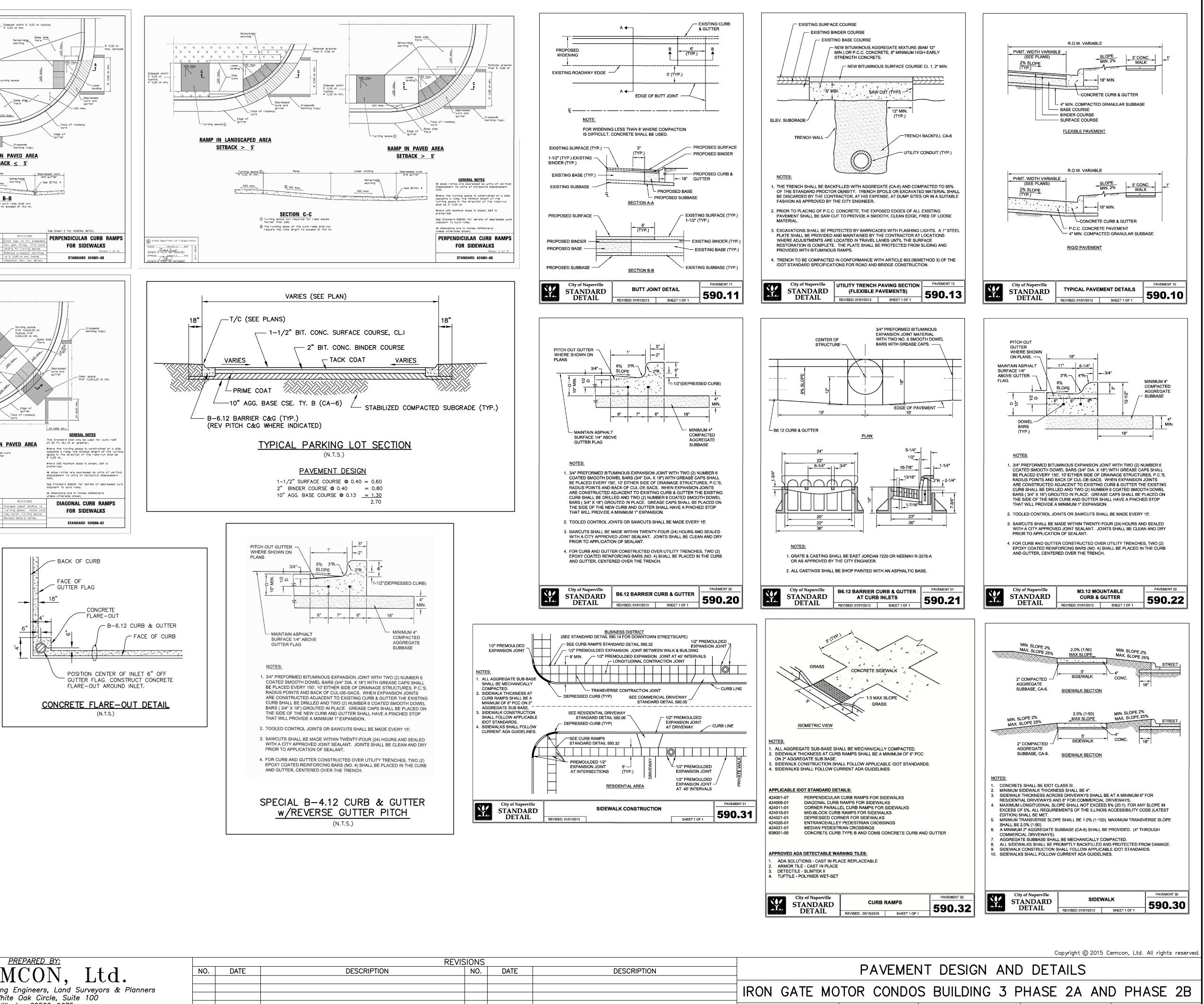
20. DURING THE PERIOD OF TIME WHEN THE PUBLIC SIDEWALK IS CLOSED, "SIDEWALK CLOSED" SIGNS MUST BE PLACED WITH POSITIVE DIRECTION TO PEDESTRIANS. A SIGN SHOULD BE PLACED AT THE EAST & WEST EXTENTS OF THE WORK ZONE TO DIRECT PEOPLE TO USE THE SIDEWALK ALONG THE NORTH SIDE OF THE STREET.

21. ALL CONTRACTOR AND SUB-CONTRACTOR VEHICLES MUST BE PARKED OFF OF PUBLIC STREETS UNLESS AUTHORIZED BY THE CITY OF NAPERVILLE ENGINEER. Copyright © 2020 Cemcon, Ltd. All rights reserved.

CONSTRUCTION SPECIFICATIONS - GENERAL NOTES							
IRON GATE MOTOR CONDOS BUILDING 3 PHASE 2A AND PHASE 2B							
FILE NAME: GENNOTES	DSGN. BY: RWB	JOB NO.: 829.007	FLD. BK./PG.:	SHEET NO.			
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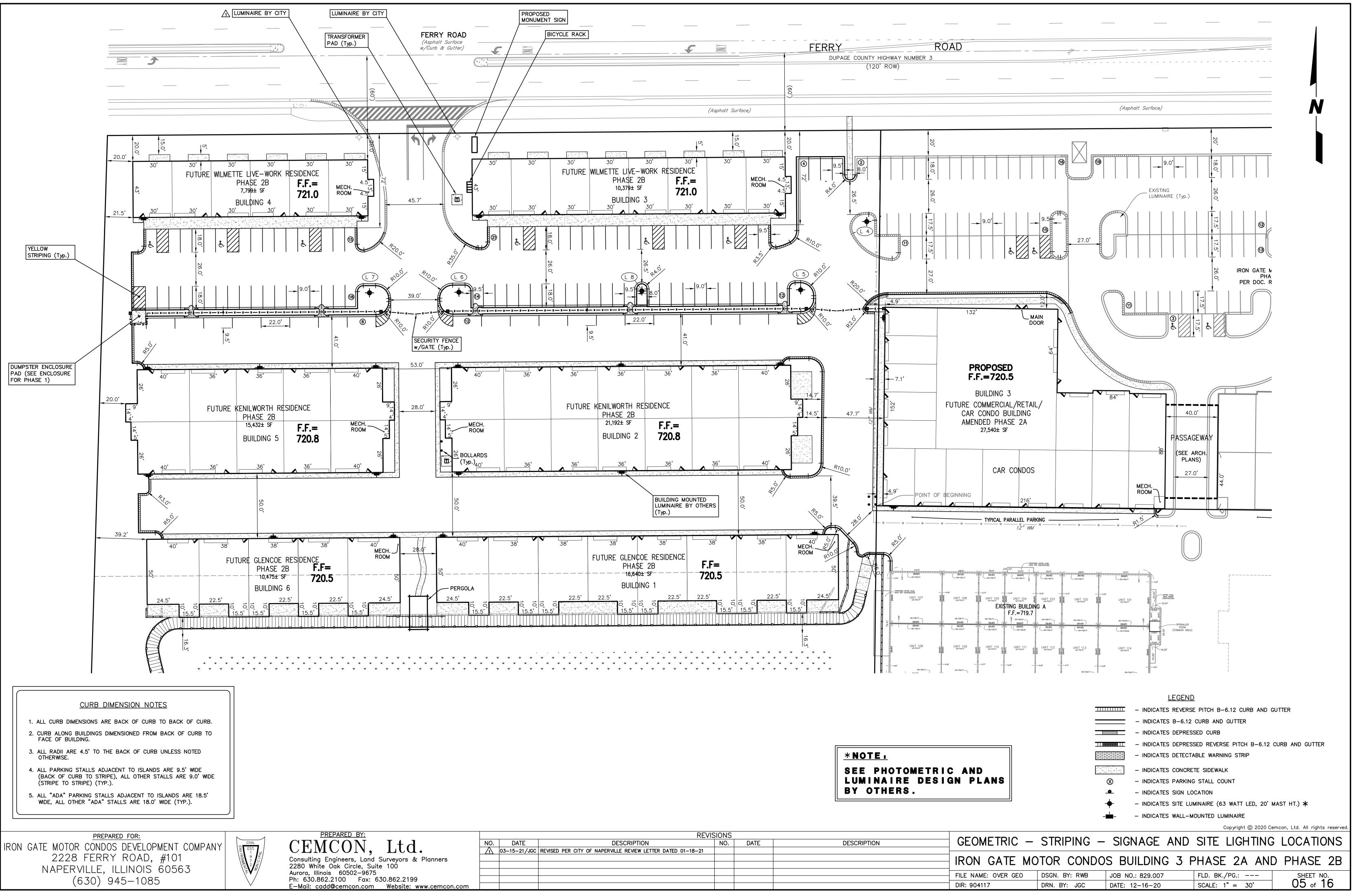




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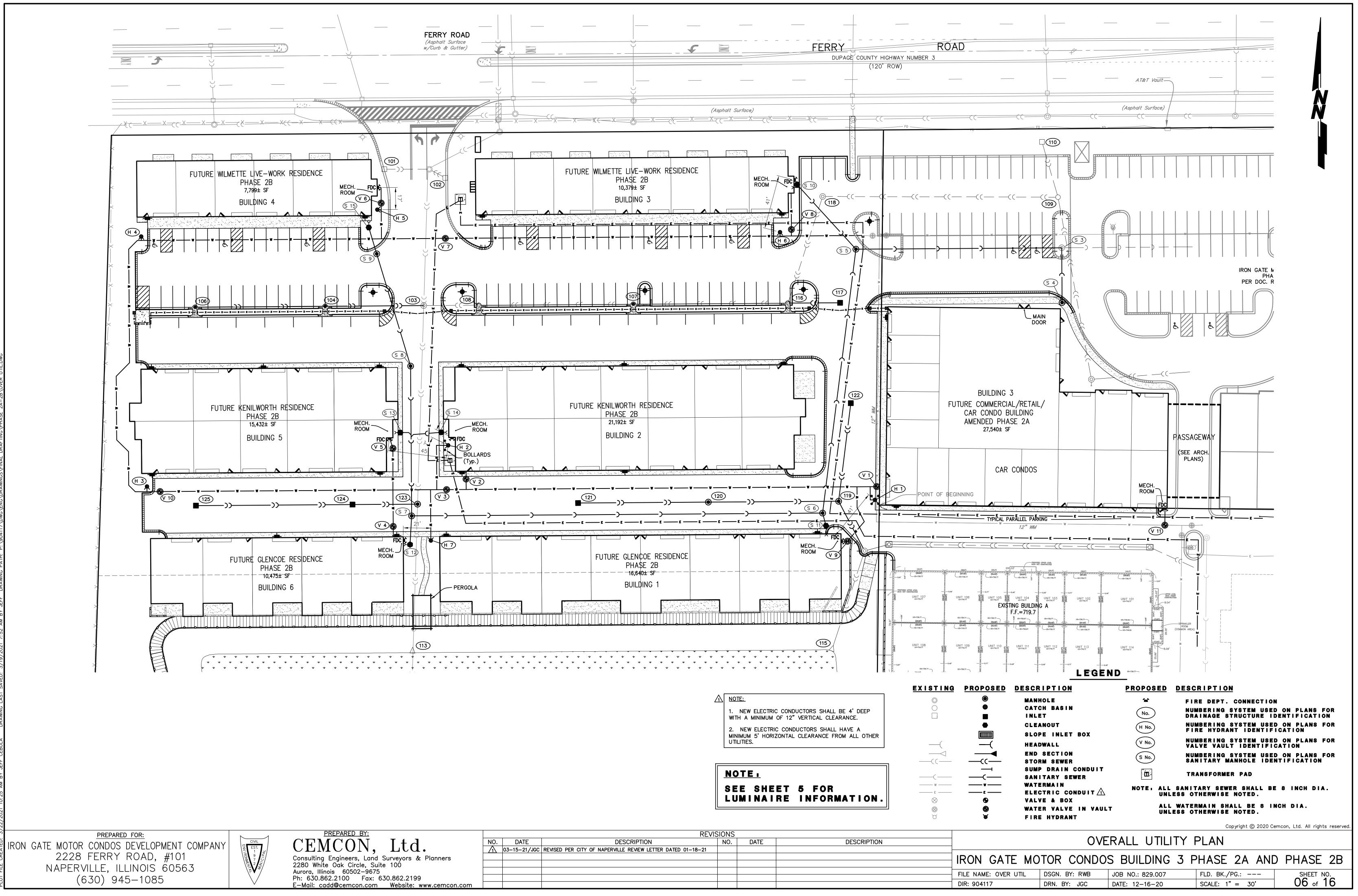
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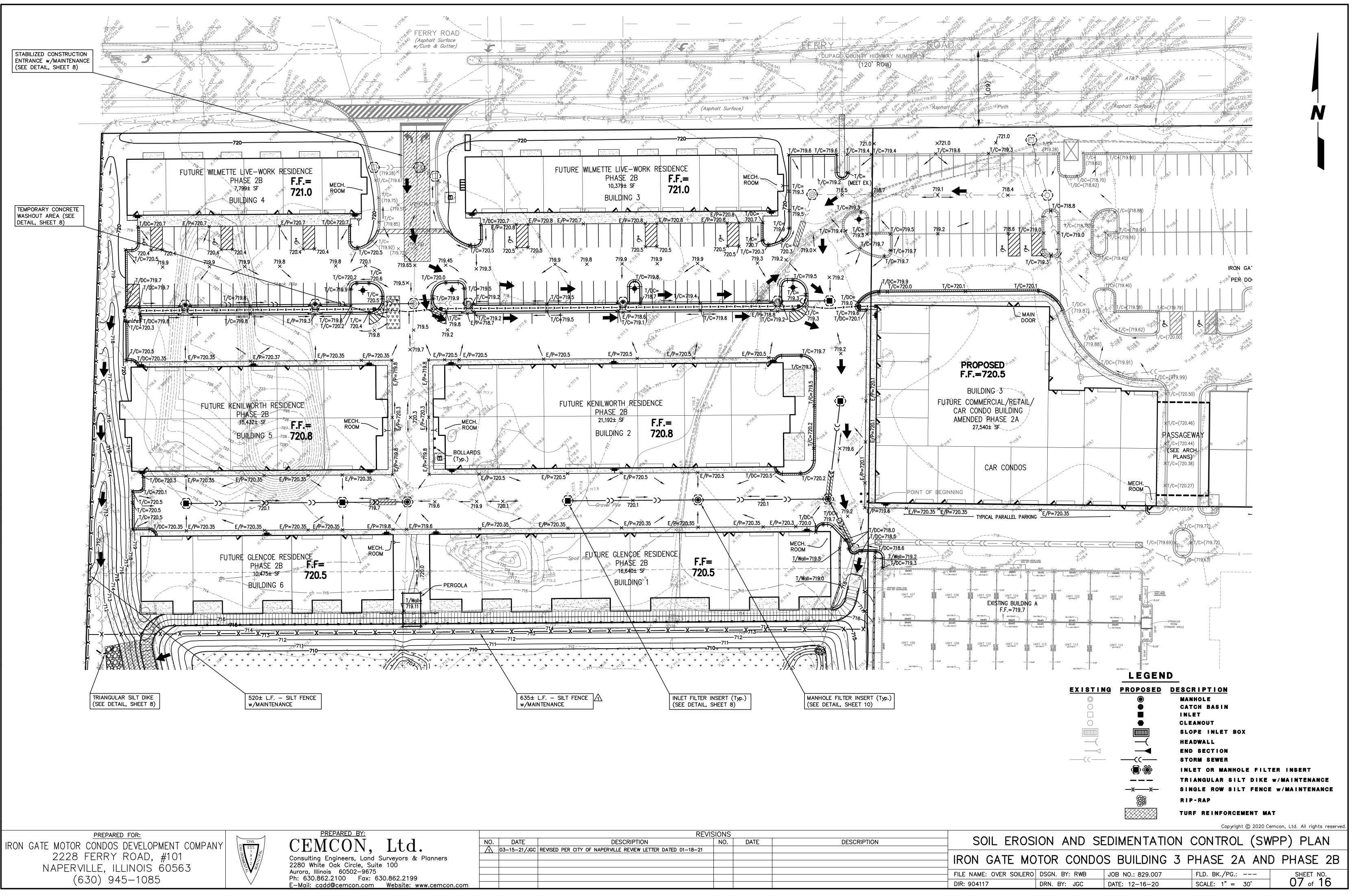


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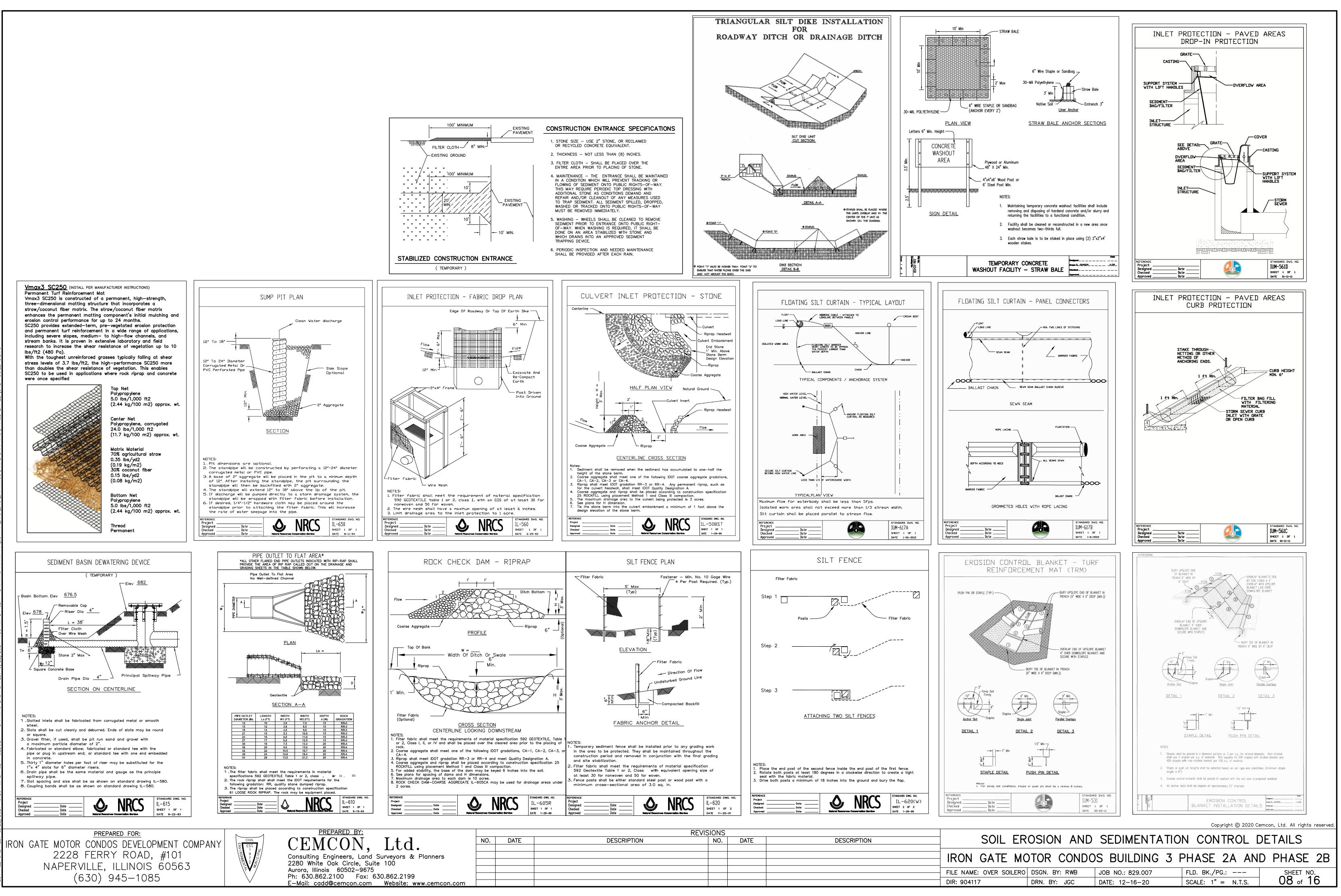
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THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES GENERAL PERMIT NUMBER ILR10. ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

THE PERMITEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY PERMIT NO-COMPLIANCE CONSTITUTES A VIOLATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT AND THE CLEAN WATER ACT AND IS GROUNDS FOR ENFORCEMENT ACTION: FOR PERMIT TERMINATION, REVOCATION AND REISSUANCE, OR MODIFICATION, OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION.

ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY WORK COMMENCING.

NO STOCKPILES ARE ALLOWED WITHIN THE LIMITS OF FLOODPLAIN, WETLANDS AND BUFFER AREAS.

- 1. SITE DESCRIPTION
- A. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

1 THE CONSTRUCTION OF SITE INFRASTRUCTURE IMPROVEMENTS TO SERVE A NEW LIVE/WORK SUBDIVISION, INCLUDING MASS GRADING OF THE SITE, STORM SEWERS AND SERVICES. SANITARY SEWERS AND SERVICES. WATER MAINS AND SERVICES, PARKING LOT PAVEMENTS, SIDEWALKS, SITE LIGHTING, EROSION AND SEDIMENTATION CONTROL MEASURES, AND VEGETATIVE STABILIZATION AND BEST MANAGEMENT PRACTICES.

B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- (1.) EROSION AND SEDIMENTATION CONTROL MEASURES SUCH AS EROSION CONTROL FENCE, SILT DIKES, RIP RAP DITCH CHECKS, TEMPORARY
- SEEDING, ETC. (2.) MASS GRADING AND EXCAVATION
- (3.) UNDERGROUND UTILITIES
- 4.) FINE GRADING AND CONSTRUCTION OF PARKING LOT PAVEMENT (5.) TOPSOIL RESPREAD AND VEGETATIVE STABILIZATION
- ⚠ C. THE TOTAL AREA OF THE PROJECT IS ESTIMATED TO BE APPROXIMATELY 6.8± ACRES. THE TOTAL AREA OF THE PROJECT ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES IS APPROXIMATELY 5.1± ACRES.
- / D. THE ESTIMATED RUNOFF CURVE NUMBER OF THE PROJECT SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED IS 94.4. INFORMATION DESCRIBING THE SOILS AT THE SITE IS CONTAINED IN THE SOILS REPORTS FOR THE PROJECT ON FILE WITH THE OWNER/DEVELOPER.

E. THESE PLAN DOCUMENTS CONTAIN SITE MAP(S) INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREAS OF MAJOR SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN. THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR. SURFACE WATERS (INCLUDING WETLAND), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.

F. THE IMMEDIATE RECEIVING WATER IS THE TRIBUTARY TO FERRY CREEK.

2. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B ABOVE. FOR EACH MEASURE DISCUSSED. THE CONTRACTORS AND SUB-CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR OR SUB-CONTRACTOR MUST SIGN THE REQUIRED CERTIFICATION ON THIS PLAN.

A. EROSION AND SEDIMENT CONTROLS

(1.) STABILIZATION PRACTICES. PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. EXCEPT AS PROVIDED IN 2.A.(1).(A) AND 2.B, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AND WHERE THE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

(A.) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY ÀFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

(B.) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN THE ACTIVITIES CEASED (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:*

- HYDROSEED, MULCH, PLUGS, AND LANDSCAPING
- RIP-RAP EROSION CONTROL BLANKET
- VMAX SC-250 TURF REINFORCEMENT MAT

(2.) STRUCTURAL PRACTICES. PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED. TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT. *

INLET PROTECTORS SILT FENCE DITCH CHECK

STABILIZED CONSTRUCTION ENTRANCE

(3.) BEST MANAGEMENT PRACTICES. PROVIDED BELOW IS A DESCRIPTION OF THÉ BEST MANAGEMENT PRACTICES THAT WILL BE IMPLEMENTED. TO THE DEGREE ATTAINABLE, TO REDUCE SUSPENDED SOLIDS, TURBIDITY, SILTATION, AND POLLUTION IN STORMWATER RUNOFF. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT. *

STORMWATER MANAGEMENT FACILITIES WITH PERMANENT POOL AND VEGETATED WETLAND PLANTINGS TEMPORARY RETENTION VEGETATED SWALES MESIC PRAIRIE UPPER SLOPE PLANTINGS

WET PRAIRIE LOWER SLOPE PLANTINGS SHALLOW MARSH BASIN BOTTOM PLANTINGS LANDSCAPED BUFFERS

B. STORMWATER MANAGEMENT

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGE THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

(1.) THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE IN SECTION 10-300 (DESIGN CONSIDERATIONS) IN CHAPTER 10 (EROSION AND SEDIMENTATION CONTROL) OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION DRAINAGE MANUAL AND THE NRCS ILLINOIS URBAN MANUAL (JANUARY 2002 VERSION).

(2.) VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., MAINTENANCE OF HYDRAULIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

STORMWATER MANAGEMENT CONTROL INCLUDES: *

STORM WATER DETENTION STRUCTURES WITH PERMANENT WET BASINS STORM WATER RETENTION STRUCTURES FLOW ATTENUATION VIA VEGETATED SWALES AND NATURAL DEPRESSIONS ON-SITE INFILTRATION OF RUNOFF SEQUENTIAL STORMWATER TREATMENT OPEN VENTILATED SWALES

C. OTHER CONTROLS

(1.) WASTE DISPOSAL. THE SOLID WASTE MATERIALS INCLUDING TRASH CONSTRUCTION DEBRIS. EXCESS CONSTRUCTION MATERIALS. MACHINERY. TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON THE SITE WILL NOT BE PERMITTED. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(2.) THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL. SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

D. APPROVED STATE OR LOCAL PLANS

THE MANAGEMENT PRACTICES. CONTROLS AND PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH IDOT SPECIFICATIONS. WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 2002. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS OR SITE PERMITS OR STORM WATER REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS OR SITE PERMITS OR STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILR10 INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

*REFER TO LISTED PLAN SHEETS FOR SPECIFIC MATERIALS AND CONSTRUCTION DETAILS

PLAN SHEET NAMES:

CONSTRUCTION SPECIFICATIONS STORMWATER POLLUTION PREVENTION PLAN OVERALL SOIL EROSION. SEDIMENTATION CONTROL PLAN AND DETAILS DRAINAGE AND GRADING PLANS DRAINAGE STRUCTURE DETAILS

3. MAINTENANCE

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN IN GOOD AND EFFECTIVE OPERATING CONDITIONS. VEGETATION. EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.

A. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY WASHING THE ASPHALT ENTRANCE. THE SEDIMENT WASHED ONTO THE PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.

B. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER. ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.

C. SILT FILTER FENCE: THE DAMAGED SILT FILTER FENCE SHALL BE INSTALLED, MAINTAINED, RESTORED, OR REPLACED TO MEET THE STANDARDS INCLUDED HEREIN.

D. INLET PROTECTORS: THE INLET PROTECTORS SHALL BE INSPECTED FREQUENTLY AND SHALL BE REPAIRED OR REMOVED AND REPLACED AS NEEDED.

PREPARED FOR: IRON GATE MOTOR CONDOS DEVELOPMENT COMPANY 2228 FERRY ROAD, #101 NAPERVILLE, ILLINOIS 60563 (630) 945-1085



4. INSPECTIONS

THE OWNER OR ITS DESIGNATED REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION, PROTECTED WITH STRUCTURAL CONTROL MEASURES, OR LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OF EQUIVALENT SNOWFALL.

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHILE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT.

D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE (ION_ REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSE OF NONCOMPLIANCE. AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: COMPLIANCE ASSURANCE SECTION 1021 NORTH GRAND EAST POST OFFICE BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276

5. NON-STORMWATER DISCHARGES

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORMWATER THAT MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN, ARE DESCRIBED BELOW:

1. WATERMAIN FLUSHING 2. FIRE HYDRANT FLUSHING

3. WATERING FOR DUST CONTROL 4. IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH FOR SEEDING. ETC.

THE POLLUTION PREVENTION MEASURES AS DESCRIBED BELOW. WILL BE IMPLEMENTED FOR NON-STORMWATER COMPONENTS OF THE DISCHARGE:

THE FIRE HYDRANT AND WATERMAIN SHALL NOT BE FLUSHED DIRECTLY ON THE EXPOSED AREA OR SUBGRADE OF THE PAVEMENT. HOSES SHALL BE USED TO DIRECT THE FLOW INTO THE STORM SEWER SYSTEM, IF AVAILABLE.

THE EROSION DUE TO IRRIGATION OF SEEDING AND DUST CONTROL SHALL BE COLLECTED AND RE-SPREAD ONSITE. TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES SHALL BE IMPLEMENTED AS NECESSARY TO CONTROL FUTURE EROSION FROM AREAS PREVIOUSLY ERODED DUE TO IRRIGATION OF SEEDING AND DUST CONTROL.

ALL SITE DE-WATERING, INCLUDING PUMP DISCHARGE, MUST PASS THROUGH THE PROPER STRUCTURAL PRE-SEDIMENTATION BASINS OR EQUAL STRUCTURAL CONTROLS BEFORE LEAVING THE SITE.

6. PLAN REVIEW

THE PERMITEE SHALL MAKE PLANS AVAILABLE UPON REQUEST FROM THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) OR A LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM SEWER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SYSTEM WITH AN NPDES PERMIT. TO THE MUNICIPAL OPERATOR OF THE SYSTEM.

THE IEPA MAY NOTIFY THE PERMITEE AT ANY TIME THAT THE PLAN DOES NOT MEET ONE OR MORE OF THE MINIMUM REQUIREMENTS OF PART IV. OF THE GENERAL PERMIT. SUCH NOTIFICATION SHALL IDENTIFY THOSE PROVISIONS OF THE PERMIT WHICH ARE NOT BEING MET BY THE PLAN, AND IDENTIFY WHICH PROVISIONS OF THE PLAN REQUIRES MODIFICATIONS IN ORDER TO MEET THE MINIMUM REQUIREMENTS OF PART IV. OF THE GENERAL PERMIT. WITHIN SEVEN (7) DAYS FROM THE RECEIPT OF THE NOTIFICATION FROM THE IEPA. THE PERMITEE SHALL MAKE THE REQUIRED CHANGES TO THE PLAN AND SHALL SUBMIT TO THE IEPA A WRITTEN CERTIFICATION THAT THE REQUESTED CHANGES HAVE BEEN MADE. FAILURE TO COMPLY SHALL TERMINATE AUTHORIZATION UNDER THE GENERAL PERMIT.

7. AMENDMENTS

THE PERMITEE SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM THE SOURCES IDENTIFIED UNDER 2. (CONTROLS) ABOVE, OR OTHERWISE ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE PLAN. AMENDMENTS TO THE PLAN MAY BE REVIEWED BY THE IEPA IN THE SAME MANNER AS 6. (PLAN REVIEW) ABOVE.

8. RECORDS

THE PERMITEE SHALL RETAIN COPIES OF THE PLAN AND ALL REPORTS AND NOTICES REQUIRED BY THE GENERAL PERMIT. AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE GENERAL PERMIT. FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. THE PERIOD MAY BE EXTENDED BY THE REQUEST OF THE IEPA AT ANY TIME.

PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

9. CONTRACTORS

THIS	PLAN	REQU	IRES	IDEN'	TIFI
CONT	RACTO	DR(S)	OR S	SUBCO)NT
	TIFIED				

CONTRACTOR(S): ADDRESS:	
PHONE:	
MEASURES IMPLEMENTED:	

SUB-CONTRACTOR(S): _____ ADDRESS: _____

PHONE: _____ MEASURES IMPLEMENTED: ____

SUB-CONTRACTOR(S): _____

ADDRESS: _____ PHONE: _____

MEASURES IMPLEMENTED: ____

ALL CONTRACTORS AND SUB-CONTRACTORS IDENTIFIED ABOVE SHALL SIGN THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT THE IDENTIFIED SITE. SIGNATURES SHALL BE PROVIDED BY A RESPONSIBLE CORPORATE OFFICER:

CERTIFICATION STATEMENT: I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR100000) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

CONTRACTOR: _____ DATE: _____ DATE: _____

CONTRACTOR: _____ DATE: _____ DATE: _____

SUB-CONTRACTOR: ______ DATE: ______ DATE: _____

SUB-CONTRACTOR: ______ DATE: ______ DATE: _____

SUB-CONTRACTOR: ______ DATE: ______ DATE: _____

PREPARED BY:		REVI	SIONS		
CEMCON Itd	NO. DATE	E DESCRIPTION	NO.	DATE	DESCRIPTION
CEMCON, Ltd.	1 03–15–21	/JGC REVISED PER CITY OF NAPERVILLE REVIEW LETTER DATED 01-18-21			
Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100					
Aurora, Illinois 60502–9675					
Ph: 630.862.2100 Fax: 630.862.2199					
E-Mail: cadd@cemcon.com Website: www.cemcon.com					

THE PERMITEE SHALL RETAIN A COPY OF THE PLAN REQUIRED BY THE GENERAL PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF THE

> FICATION FOR EACH MEASURE IN THE PLAN. THE TRACTOR(S) THAT WILL IMPLEMENT THE

KANE-DuPAGE SOIL & WATER CONSERVATION DISTRICT

- 1. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THE SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.
- 2. COMPLETED SLOPES SHALL BE SEEDED AND MULCHED [OR BLANKETED, IF APPLICABLE] AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DÉSIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- 3. THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ONSITE AND SEDIMENTATION ISSUES DOWNSTREAM.
- 4. ONCE THE CONTRIBUTING AREA IS STABILIZED, THE BASIN NEEDS TO BE CLEANED OUT AND THE FINAL PROPOSED GRADE MUST BE ACHIEVED.
- 5. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
- 6. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- 7. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 8. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE KDWSCD.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- 10. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED AND/OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED.
- 11. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THE PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

MAINTENANCE SCHEDULE

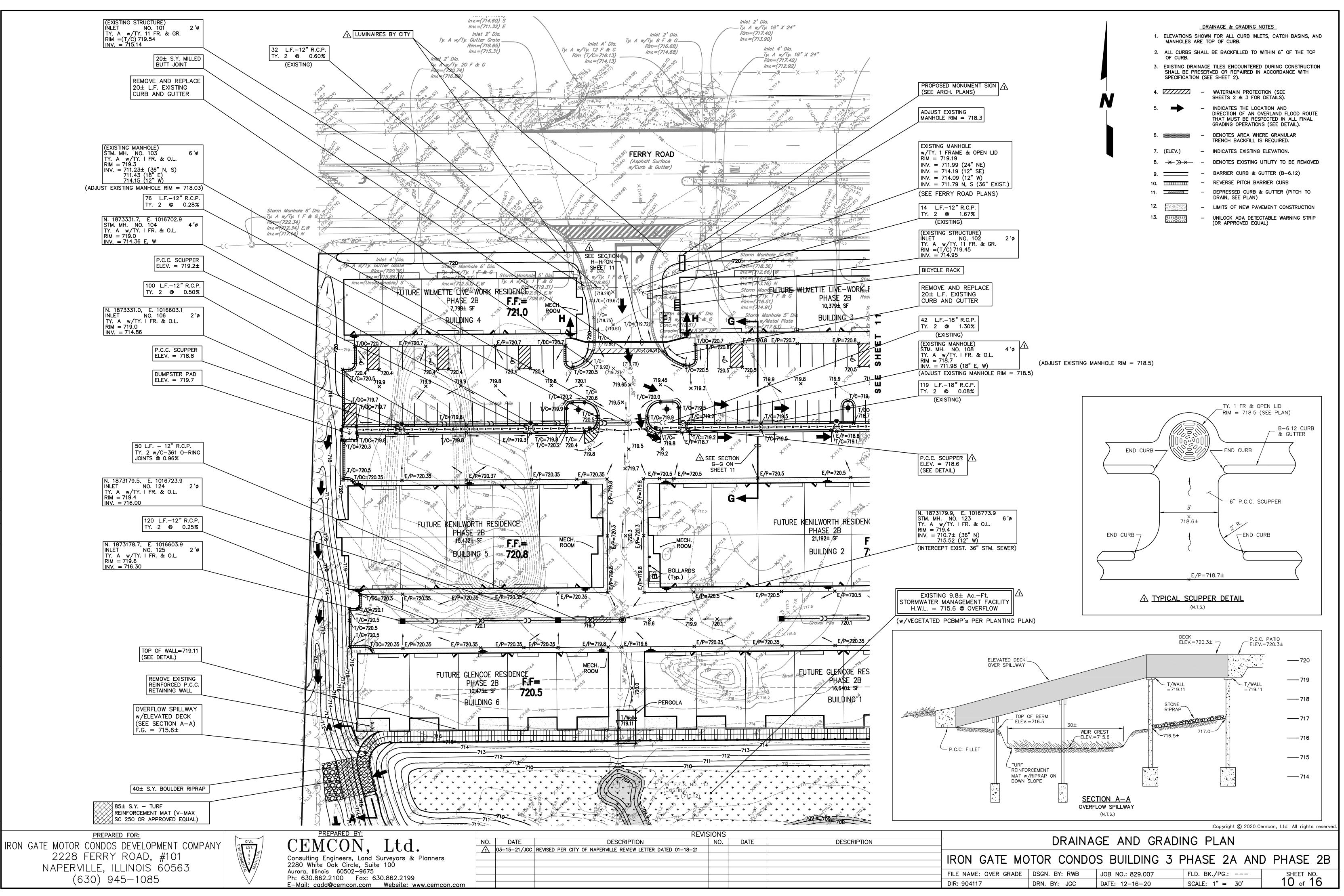
ALL SEDIMENT BASINS TO BE INSPECTED REGULARLY AND SEDIMENT PLUMES TO BE REMOVED ON AN AS NEEDED BASIS AND AT PROJECT CLOSE OUT.

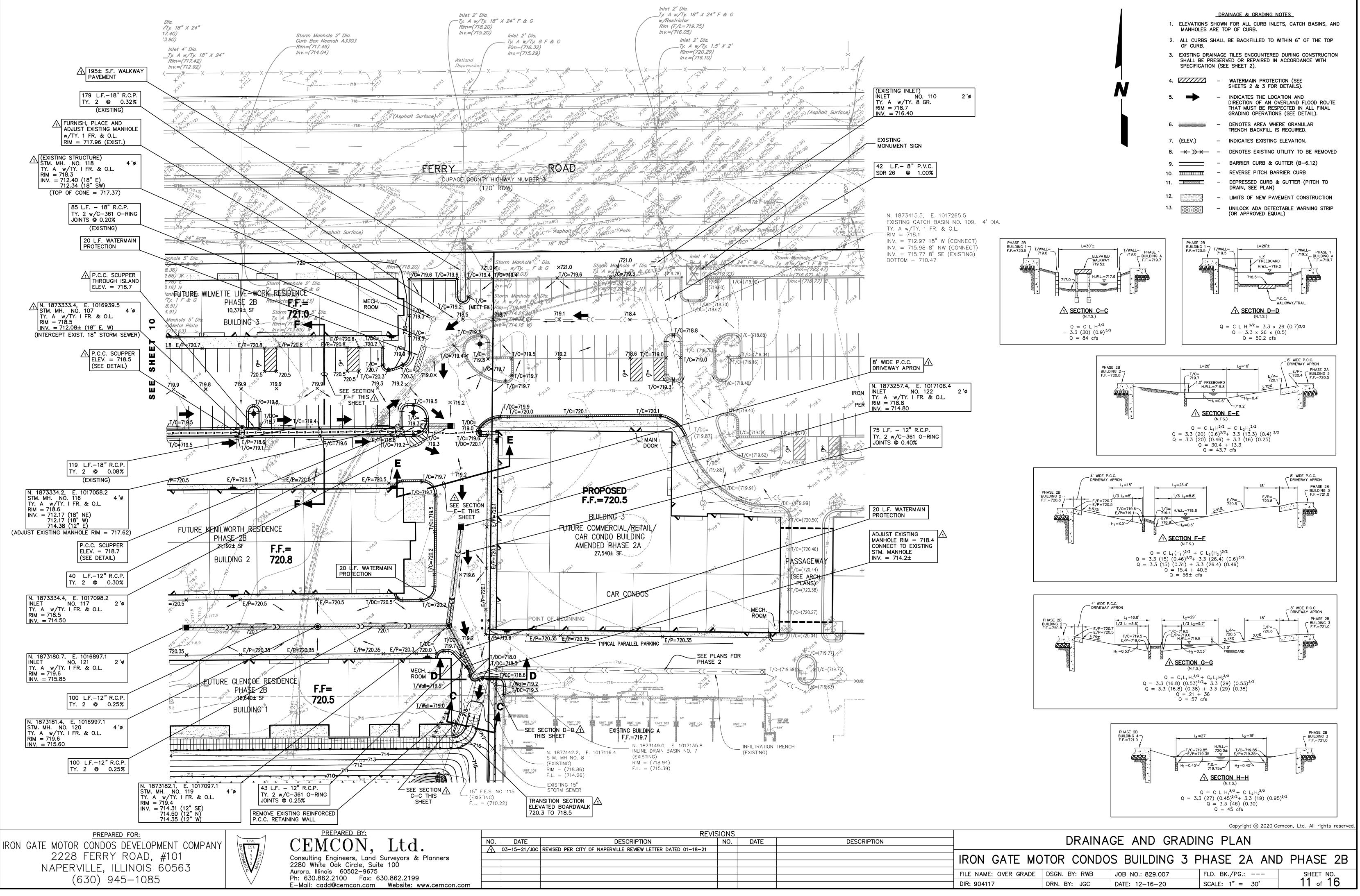
SIDE SLOPES OF THE BASINS TO BE INSPECTED REGULARLY AND ANY GULLY OR OTHER EROSION TO BE REPAIRED ON AN AS NEEDED BASIS.

SCOUR PROTECTION AT THE FLARED END SECTIONS SHALL BE INSPECTED REGULARLY AND REPAIRED AS NECESSARY.

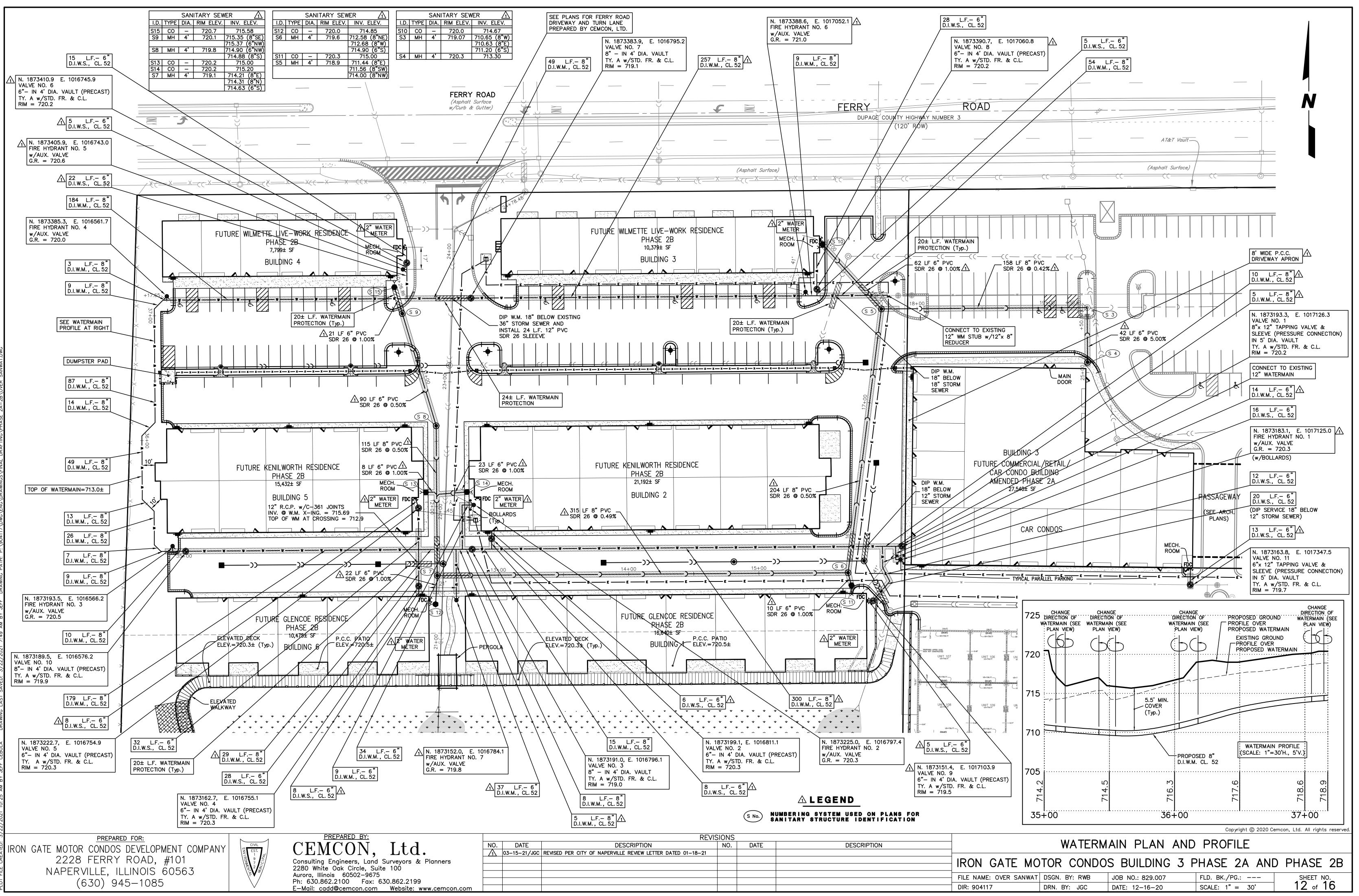
THE BASINS SHALL BE AS-BUILT PRIOR TO PROJECT CLOSE OUT TO ENSURE PROPER STORAGE VOLUME.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ОСТ.	NOV.	DEC.		
PERMANENT SEEDING			+				•							
DORMANT SEEDING	В Т										+ <mark>B</mark>			
TEMPORARY SEEDING			+ ^C				D							
SODDING			+ =			<u> </u>								
MULCHING	F													
						I	[]				[
A KENTUCKY BLUE MIXED WITH PERI LBS/ACRE AND	ENNIAL R	YEGRAŚS	60			ATS 100 LE R CEREAL						JUNE AND JULY.	R APPLYING SOD.	
LBS/ACRE + 2					50 LBS/AC									
						JLCH 2 TO	NS/ACRE.							
			SC	<u>IL P</u>	ROT	ECT		CHAP	RT					
											Сору	right © 202) Cemcon, Ltd. ,	All rights reserved
STORMWATER POLLUTION PREVENTION PLAN NOTES														
IRON GA	TE	мот	OR	CON	1DO	S B	UILD	ING	3 F	РΗΑ	SE	2A A	ND PHA	ASE 2B
FILE NAME: OVE	ER SOIL	ERO D	SGN. B	Y: RWB	}	JOB N	0.: 829	.007		FLD.	BK./PC	G.:		IEET NO.
DIR: 904117		D	RN. BY	: JGC		DATE:	12-16-	-20		SCAL	E: 1"	= NONE	05	9 of 16

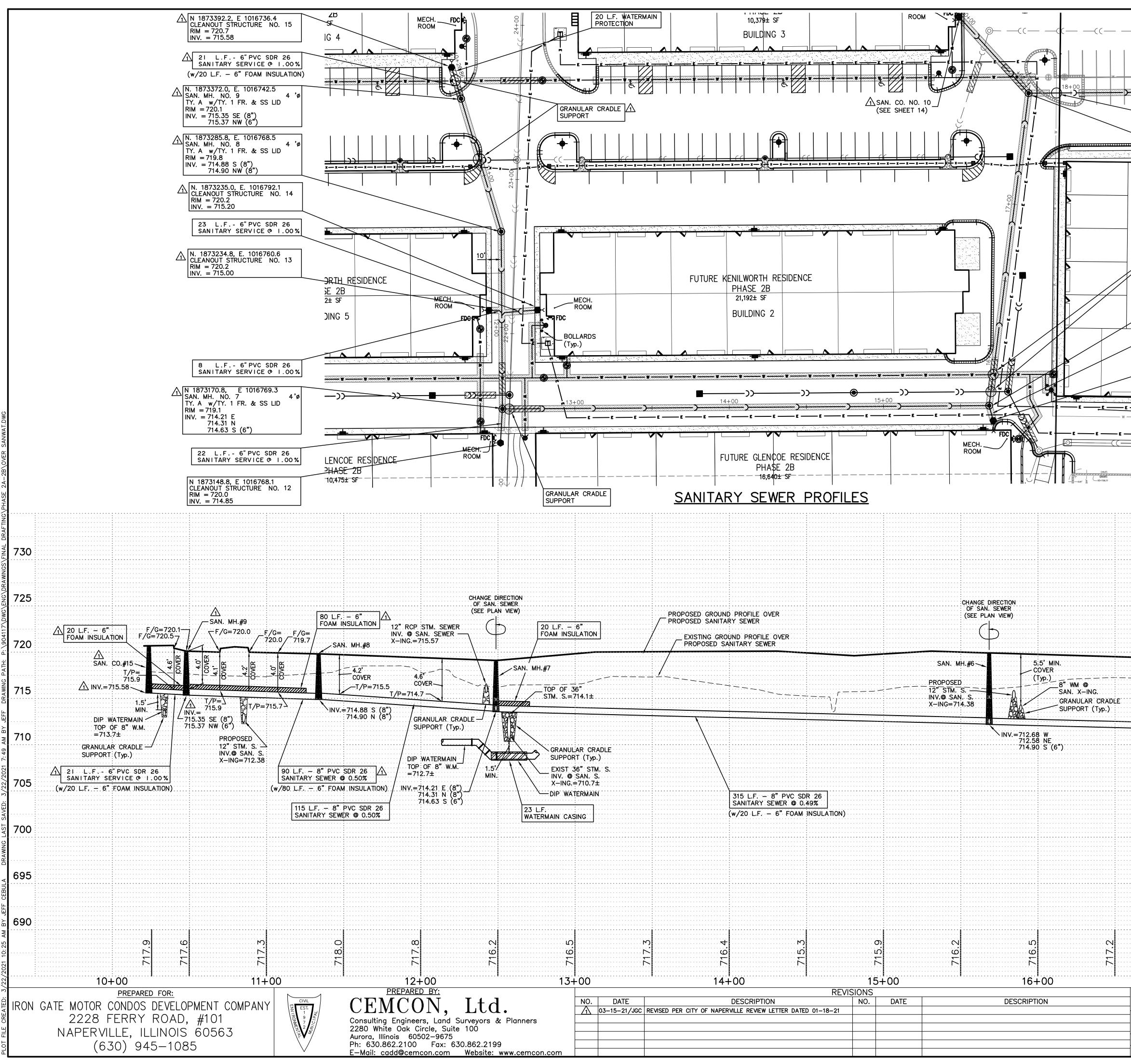




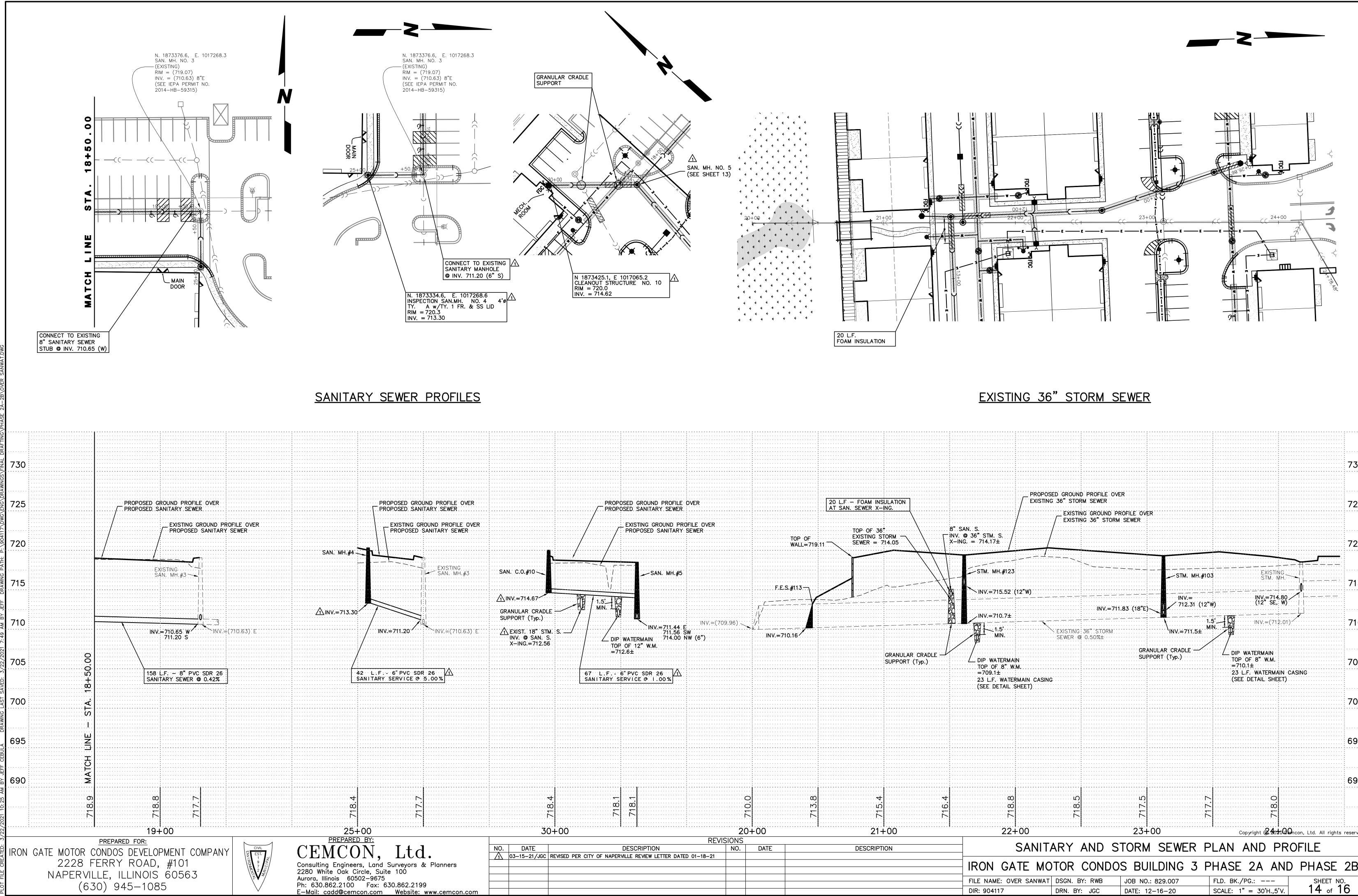
IRON GATE MC	TOR CONDO	S BUILDING 3 F	PHASE ZA ANI	J PHASE 2B
FILE NAME: OVER GRADE	DSGN. BY: RWB	JOB NO.: 829.007	FLD. BK./PG.:	SHEET NO.
DIR: 904117	DRN. BY: JGC	DATE: 12–16–20	SCALE: 1" = 30'	11 of 16



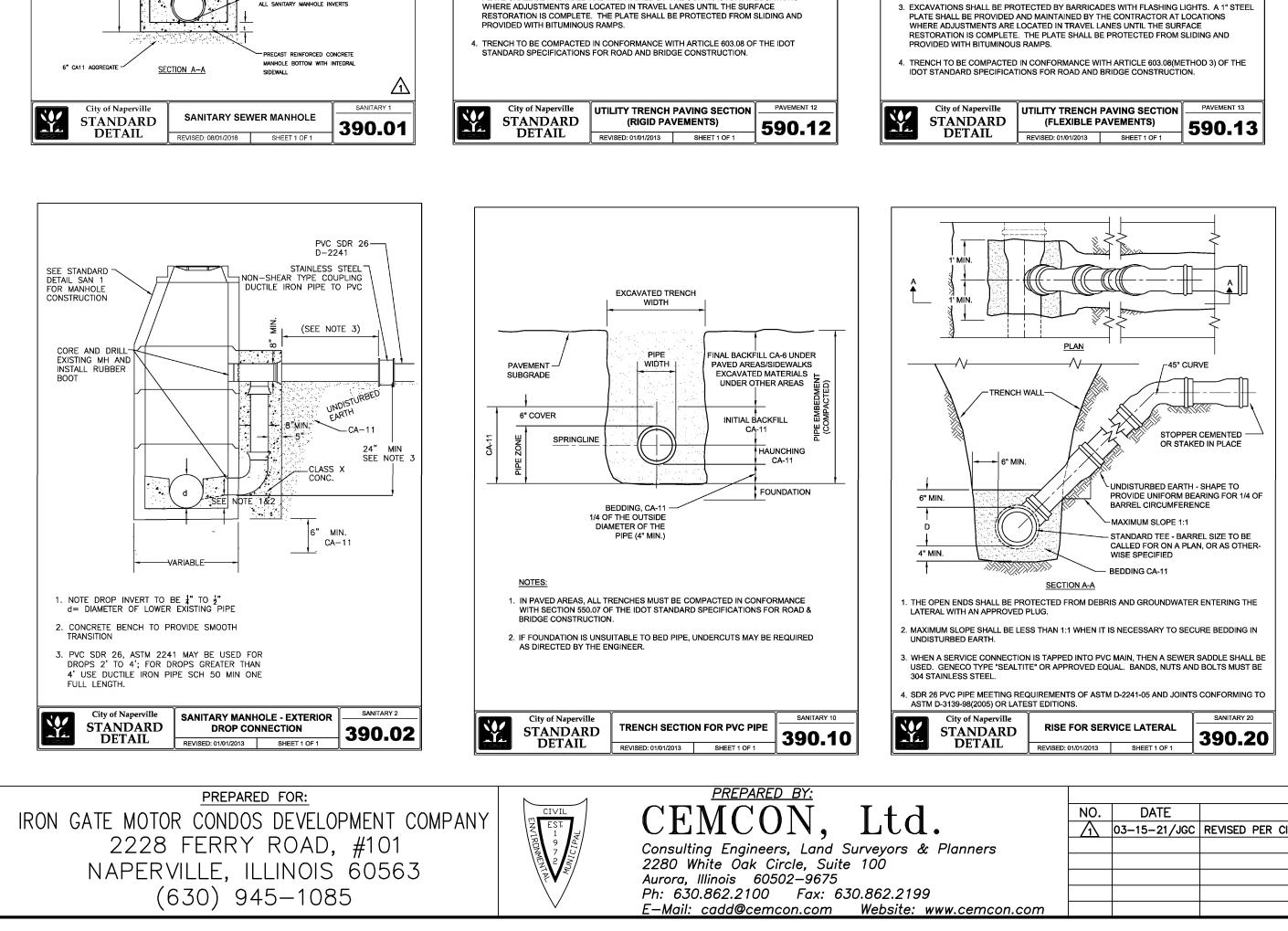
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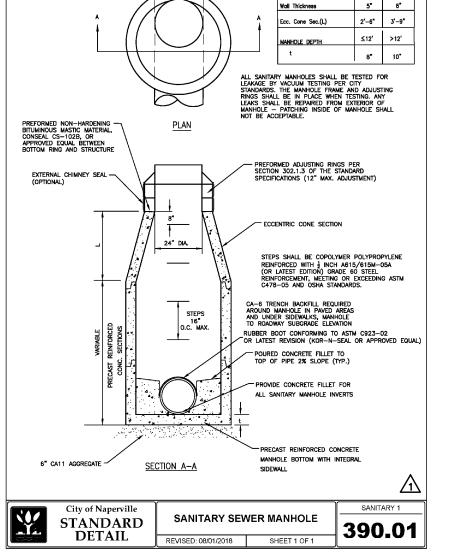


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0				
20.02				
HEET 4				
GRANULAR CRAE				
N 1873375.5, SAN. MH. NO. 5 TY. A w/TY. 1 RIM = 718.9	E 1017110.3 5 4 'ø FR. & SS LID			
Z INV. = 711.44 E 711.56 SV 714.00 NV	w			
GRANULAR CRA	DROP STRUCTURE)			
N 1873173.0, SAN. MH. NO. TY. A w/TY. 1 RIM = 719.6				
FU F	NE W S (6") L DROP STRUCTURE)			
10 L.F 6	5″ PVC SDR 26 ERVICE @ 1.00%			
N 1873163.3, E CLEANOUT STRU RIM = 720.3	E 1017087.4 UCTURE NO. 11			
INV. = 715.00				
E ·				
. M. C				
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		NV.=711.44 E 711.56 SW 714.00 NW (6")		710
		• • •	0	705
204 L.F 8" PV SANITARY SEWER	/C SDR 26 @ 0.50%	· · · · · · · · · · · · · · · · · · ·	+ 50.	705
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자 17+00	<u>ک</u>	⊼ 18+00		
	SANITARY		AND PROFILE	icon, Ltd. All rights reserved.
IRON GATE M	OTOR CONDO	OS BUILDING 3	6 PHASE 2A AND	PHASE 2B
FILE NAME: OVER SANWAT DIR: 904117	DSGN. BY: RWBDRN. BY: JGC	JOB NO.: 829.007 DATE: 12-16-20	FLD. BK./PG.: SCALE: 1" = 30'H.,5'V.	SHEET NO. 13 of 16



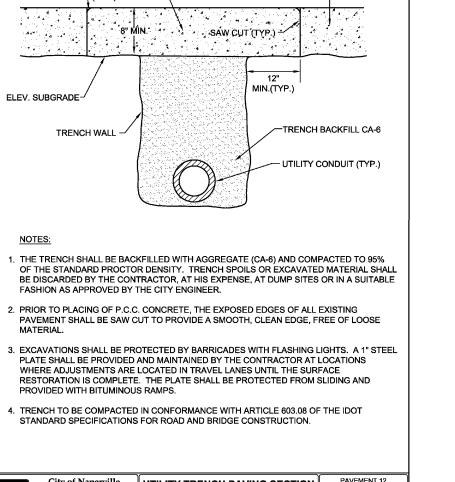
					730
WER	PROPOSED GROUND PROFILE OVER	20 L.F FOAM INSULATION AT SAN. SEWER X-ING.	PROPOSED GROUND PROFILE OVER		725
OVER	EXISTING GROUND PROFILE OVER	[AI SAN. SEWER X-ING.	EXISTING GROUND PROF		
R /	PROPOSED SANITARY SEWER	TOP OF 36" TOP OF EXISTING STORM WALL = 719 11 SEWER = 714.05	8" SAN. S. └ INV. @ 36" STM. S. \ X-ING. = 714.17±		720
h		WALL=719:11			720
#3 SAN. C.O.#10	SAN. MH.#5		STM. MH.#123		
1 INV.=714.67		F.E.S.#113	INV.=715.52 (12"W)		/15 INV.=714.80
GRANULAR CRADLE			INV.=711.83	(18"E) 712.31 (12"W)	(12" SE, W)
63) E EXIST. 18" STM. S INV. @ SAN. S.	INV.=711.44 E 711.56 SW DIP WATERMAIN 714.00 NW (6")	INV = 710 16	1.5' EXISTING 36" STORM	1.5' MIN. INV.=711.5±	INV:=(712.01) 710
INV. @ SAN. S. X-ING.=712.56	DIP WATERMAIN /14.00 NW (6) TOP OF 12" W.M. =712.6±		SEWER @ 0.30%±	GRANULAR CRADLE	FERMAIN
		SUPPORT (Typ.)	DIP WATERMAIN TOP OF 8" W.M.	TOP OF =710.1±	^{8″ W.M.} 705
	67 L.F 6" PVC SDR 26 SANITARY SERVICE @ 1.00%		=709.1± 23 L.F. WATERMAIN CASING (SEE DETAIL SHEET)		WATERMAIN CASING TAIL SHEET)
					700
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30+00 30+00		0+00 21+00 0+00 21+00	4.912 22+00	ю	695 690 00 N ight 2 fot 0@Oncon, Ltd. All rights reserved
NO. DATE	REVISIONS DESCRIPTION NO.			Image: Second	
NO. DATE	REVISIONS			ORM SEWER PLAN AN	ND PROFILE
NO. DATE	REVISIONS DESCRIPTION NO.		SANITARY AND STO IRON GATE MOTOR CONDOS FILE NAME: OVER SANWAT DSGN. BY: RWB JO	ORM SEWER PLAN AN	ND PROFILE 2A AND PHASE 2B

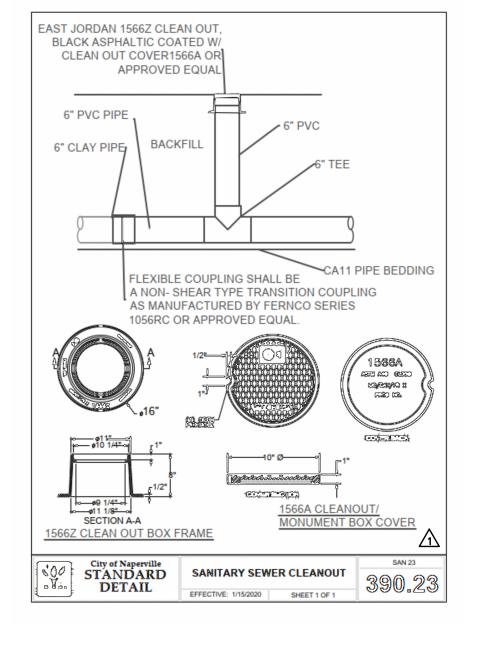




 Inside MANHOLE. DIAMETER.
 48"
 60"

 Pipe DIAMETER.
 ≤21"
 >21"







REVISED: 01/01/2013

SHEET 1 OF 1

EXISTING P.C.C. CONCRETE (TYP.) -

─ 8" MIN. HIGH-EARLY P.C.C.

DETAIL

1/8"R

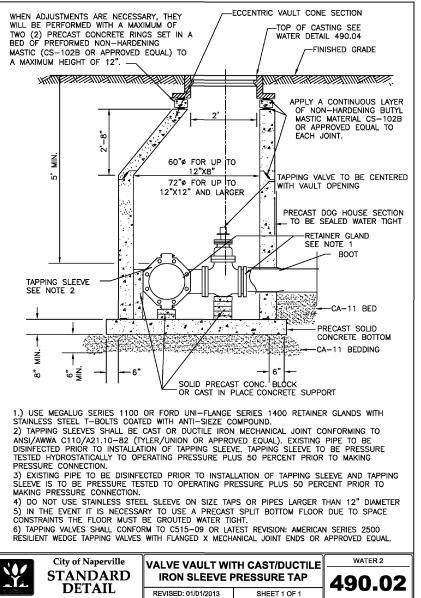
490.15

ELEV. SUBGRADE-

NOTES:

MATERIAL

TRENCH WALL -



AT EACH JOINT, APPLY A CONTINUOU

LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAU CS-102B, OR APPROVED EQUAL

-- 6"

VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.

City of Naperville STANDARD DETAIL City of Naperville

DETAIL

CAST FRAME

24"

SECTION A-A

26"

2. CONCENTRIC CONES TO BE USED FOR VALVES 12" AND SMALLER.

-TOP OF CASTING

48"ø VAULT

FOR 8"ø W.M.

OR SMALLE

FOR 10"ø W.M.

OR LARGER

3. VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS TO COMPLY WITH ANSI/AWWA C515-09 OR LATEST VERSION VALVES TO BE CLOW, AMERICAN, WATEROUS, KENNEDY OR APPROVED EQUAL.

WHEN ADJUSTMENTS ARE NECESSARY, THEY SHALL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PREFORMED NON-HARDENING MASTIC MATERIAL (CONSEAL CS-102B, OR APPROVED EQUAL) TO A MAXIMUM HEIGHT OF 12".

VALVE VAULT

REVISED: 01/01/2013 SHEET 1 OF 1

2" RAISE

I FTTFRS

SEAL TITE LID -

SEAL TITE

PICK HOLE

CONCEALED

CAST CLOSED LID

22-3/4"

SECTION D-D

. . . .

INTEGRAL CA-11

----6'

PRECAST CONC. BLOCK SUPPORT

FINISHED GRADE

- MEGALUG 1100 SERIES OR FORD 1400 SERIES

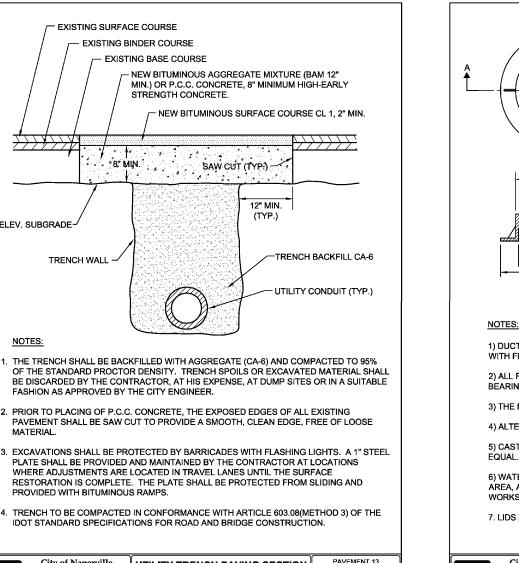
ON VALVE 8" DIA. OR GREATER

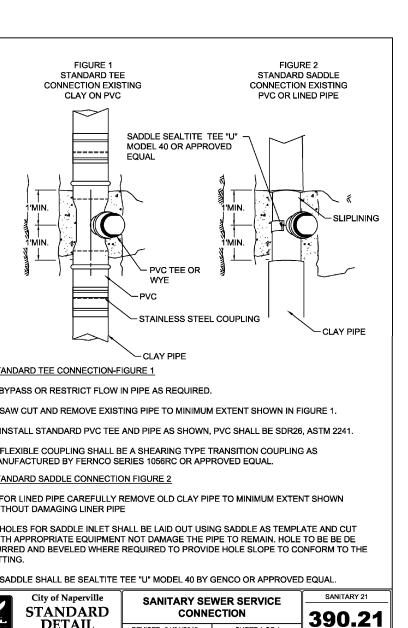
RUBBER BOOT (KOR-N-SEAL OR

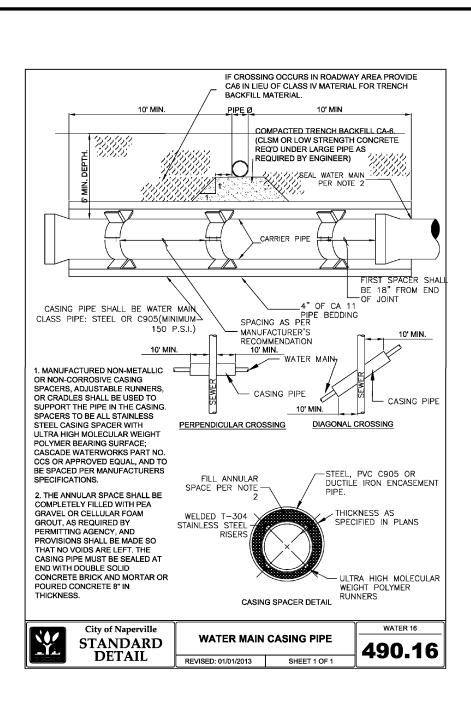
APPROVED EQUAL)

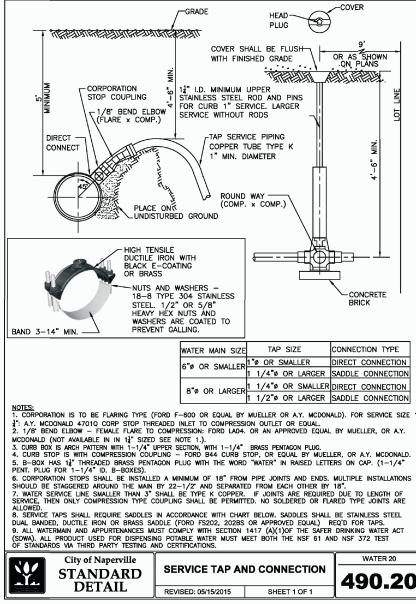
WATER 1

490.01

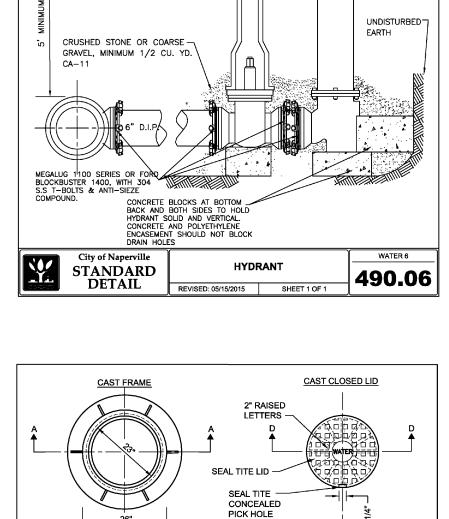








FILLED WITH AGGREGATE (CA-6) AND COMPACTED TO 95% RDENSITY. TRENCH SPOILS OR EXCAVATED MATERIAL SHALL RACTOR, AT HIS EXPENSE, AT DUMP SITES OR IN A SUITABLE HE CITY ENGINEER. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING JT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE TECTED BY BARRICADES WITH FLASHING LIGHTS. A 1" STEEL ND MAINTAINED BY THE CONTRACTOR AT LOCATIONS OCATED IN TRAVEL LANES UNTIL THE SURFACE THE PLATE SHALL BE PROTECTED FROM SLIDING AND RAMPS. IN CONFORMANCE WITH ARTICLE 603.08(METHOD 3) OF THE ONS FOR ROAD AND BRIDGE CONSTRUCTION. UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS) REVISED: 01/01/2013 SHEET 1 OF 1	 WITH FEDERAL SPECIFICATIONS. 2) ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS I 3) THE MANHOLE COVERS SHALL HAVE 2" RAISED LETTERS AS SHO 4) ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY E 5) CASTINGS ARE SHALL BE EAST JORDAN 1022-Z3; NEENAH R-1772 EQUAL. 6) WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED AREA, AND AS NOTED ON THE PLANS. NEENAH R-1916-F1, EAST JO WORKS 1022-Z1PT OR APPROVED EQUAL. 7. LIDS AND FRAMES TO MEET ASSHTO M306 PROOF LOADING SPE 102 City of Naperville STANDARD DETAIL 11 SANITARY MANHOLE - FRAME AS COVER 	IN THE COVER. DWN. BE USED. 2 OR APPROVED IN FLOOD PLAIN PRDAN IRON ECIFICATIONS SANITARY 6 NOTES: 1. CORPORATION IS TO E 1. CORPORATION AVAILABLY 1. CURB STOP IS WITH (5. B-BOX HAS I' THRE 1. CORPORATION STOPS 1 1. CURB STOP IS WITH (5. B-BOX HAS I' THRE 1. CORPORATION STOPS 1 1. CURB STOP IS WITH (5. B-BOX HAS I' THRE 1. CORPORATION STOPS 1 1. CURB STANDARDED, DUCTURE I 1. SALL WATERMAIN AND A 1. CURB STANDARDED, DUCTURE I 1. SALL WATERMAIN AND A 1. CURB STANDARDED IS ST	6"# OR SMALLER DIRECT CONNECTION 1 1/4"# OR LARGER 1 1/4"# OR LARGER SADDLE CONNECTION 8"# OR LARGER 1 1/4"# OR SMALLER DIRECT CONNECTION 8"# OR LARGER 1 1/4"# OR SMALLER DIRECT CONNECTION 1 1/2"# OR LARGER SADDLE CONNECTION 10 CORP STOP THREADED INLET TO COMPRESSION OUTLET OR EQUAL. FOR SADDLE CONNECTION 10 CORP STOP THREADED INLET TO COMPRESSION OUTLET OR EQUAL. FOR LARGER 10 LIN IN 1# SIZED SEE NOTE 1.0. TERN WITH 1-1/4" BRASS PETRACON PLUC. COMPRESSION COUPLING - FORD B44 CURB STOP, OR EQUAL BY MUELLER, OR AY. MCDONALD. CADED BRASS PENTACON PLUG WITH THE WORD WATER" IN RAISED LETTERS ON CAP. (1-1/4" " ID. B-BOXES). STALL BE A MINIMUM OF 18" FROM PIPE JOINTS AND ENDS. MULTIPLE INSTALLATIONS AROUND THE MAIN BY 22-1/2" AND SEPARATED FROM EACH OTHER BY 18". SHALL BE INSTALLED A MINIMUM OF 18" FROM PIPE JOINTS AND ENDS. MULTIPLE INSTALLATIONS AROUND THE MAIN BY 22-1/2" AND SEPARATED FROM EACH OTHER BY 18". SHALL BE INSTALLED A MINIMUM OF 18" FROM PIPE JOINTS AND ENDS. MULTIPLE INSTALLATIONS AROUND THE MAIN BY 22-1/2" AND SEPARATED FROM EACH OTHER BOUNT SATE ID -BOXES). SHALL BE TYPE K COPPER. IN JOINTS ANE REQUIRED DUE TO LENGTH OF MPRESSION TYPE COUPLING SHALL BE PERMITED. NO SOLDERED OR FLARED TYPE JOINTS ARE TROUMED THE MASS SADDLE (FORD FS2CQ 2028S OR APPROVED EQUAL) REC'D FOR TAPS. APPURTENANCES MUST COMPLEX AND EXTERIOR TO DERTIFICATIONS.	 WITH FEDERAL SPECIFIC 2. ALL FRAMES AND COVER BEARING SURFACES. PIC 3. THE MANHOLE COVERS 4. ALTERNATIVE TO DUCTIL 5. DIMENSIONS FOR CASTIN R-1772-C, HEAVY DUTY. 	E GRADE 65-45-12 AND SHALL BE TESTED II CATIONS. RS SHALL HAVE MACHINED HORIZONTAL A ICK HOLES SHALL NOT CREATE OPENINGS SHALL HAVE RAISED LETTERS AS SHOWN ILE IRON LID, GREY IRON CL 35 LID MAY BE INGS ARE COMPARABLE TO EAST JORDAN EET AASHTO M306 PROOF LOADING SPEC VALVE VAULT - FRAME & COVEL REVISED: 01/01/2013 SHEET 1 OF 1	AND VERTICAL S IN THE COVER. N. E USED. N 1022 OR NEENAH CIFICATIONS. WATER 4 490.04	ONCRETE A MINIMUM OF 12" THICK, PLACED THR ETWEEN SOLID GROUND & THE FITTING, AND SHALL ETWEEN SOLID GROUND & THE FITTING, AND SHALL EANCHORED IN SUCH A MANNER THAT THE PIPE ND FITTING WILL BE ACCESSIBLE FOR REPAIRS. HRUST BLOCKS SHALL BE PLACED AT BENDS OF 1-1/4' OR MORE. IPE BENDS TO BE POLYETHYLENE ENCASED. DINT RESTRAINT AT BEND AND LENGTH OF PIPE EACH RECTION FROM BENDS AS REQUIRED BY THE CITY F NAPERVILLE IF UNDISTURBED SOIL NOT AVAILABLE. HRUST BLOCK FOR PIPES LARGER THAN 2" MUST BE POURED IN PLACE City of Naperville STANDARD DETAIL THRUST BLOCK REVISED: 05/15/2015 SHE	490.11
PLAN PLAN AS' CURVE AST CORPER CEMENTED PLAN AST CORPER CEMENTED AST CORPER CEMENTED FOR THE STATE OF CORPERCIENCE MAXIMUM SLOPE 1:1 STANDARD TE: 5 BARREL SIZE TO BE CALLED FOR ON A PLAN, OR AS OTHERES BEDDING CA:1 STANDARD TE: 5 BARREL SIZE TO BE CALLED FOR ON A PLAN, OR AS OTHERES BEDDING CA:1 STANDARD TE: STAND ADDING COLDENT STAND ADDING CONTROLOGICAL COLDENT OF VC MAIN, THEN A SEWER SADDLE SHALL BE COLDENTS OF ASTM D-2241-05 AND JOINTS CONFORMING TO COLDENTS OF ASTM D-2241-05 AND JOINTS CONFORMING TO COLDENTS OF ASTM D-2241-05 AND JOINTS CONFORMING TO COLDENTS ON A STAND ADDINTS CONFORMING TO COLDENTS ON A STAND ADDINTS CONFORMING TO COLDENTS ON ADDINTS CONFORMING TO COLDENTS MARCEL LATERAL MANDEL MARENTIN	STANDARD TEE STAND CONNECTION EXISTING CONNEC	DR26, ASTM 2241. LING AS KTENT SHOWN MPLATE AND CUT OLE TO BE BE DE D CONFORM TO THE		MINIMUM Separation. <u>GUIDELINES</u> Or STAN Omit Select Granular Cradle and Granular Select Excavated Material (Class IV) and If Select Granular Backfill exists, remove within width of Existing Sever Line trench and replace with Select Excavated Material (Class IV) and compact. Provide adequate Support for Existing Sever Line to prevent damage due to settlement. Casing: See 3 roposed Water Main	compact for 10 feet on either side of s Existing Sev	th 18" PACTED TO 95% Pacted To	INED WITH POLYWRAP (REFER TO AND 490.1 AND 490.1 EXISTING WATER MAIN EXISTING WATER MAIN LOCATION TO BE REMOVE PROPOSED SEWER 10'	POURED IN PLACE CONCRETE (CLASS X) FOR VERTICAL THRUST BLOCK. BEND THREADED ROUTED IN PLACE CONCRETE (CLASS X) FOR VERTICAL THRUST BLOCK. BEND THREADED ROD TO PREVENT PULLOUT. (TYPICAL OF 2) R MAIN WITH ALL PIPING THEN WRAPPED AND TAPED D TO PROVIDE WATER MAIN BACTERIAL SAMPLES TAKEN
	REVIS							Cemcon, Ltd. All rights reserved.
NO. DATE /1 03–15–21/JGC REVISED PER CIT	DESCRIPTION TY OF NAPERVILLE REVIEW LETTER DATED 01-18-21	NO. DATE	DESCRIPTION	SANITARY	SEWER ANI	J WAIERMAI	IN CONSTRUCTIO	N DETAILS
				IRON GATE M	OTOR COND(DS BUILDING	3 PHASE 2A AN	ID PHASE 2B
				FILE NAME: DETAILS	DSGN. BY: RWB	JOB NO.: 829.007	FLD. BK./PG.:	SHEET NO.
				DIR: 904117	DRN. BY: JGC	DATE: 12-16-20	SCALE: 1" = NONE	15 of 16



22-3/4"

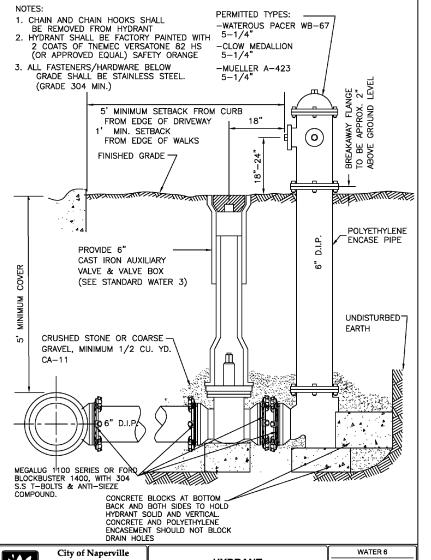
6" DIA.

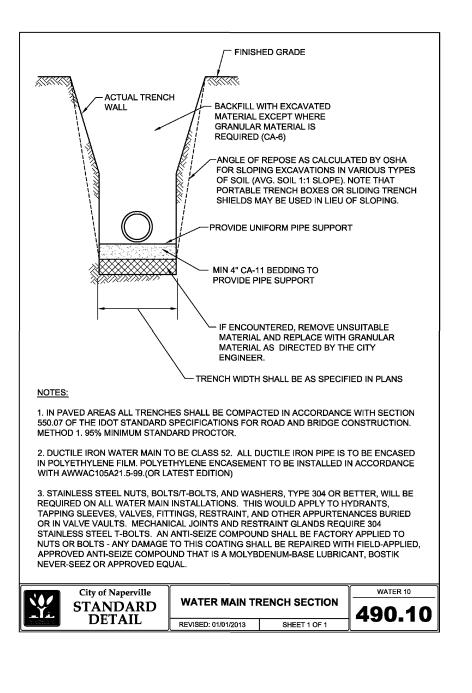
SECTION D-D

34'

SECTION A-A

5/8"___| ___ 5/8"





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-12" MIN

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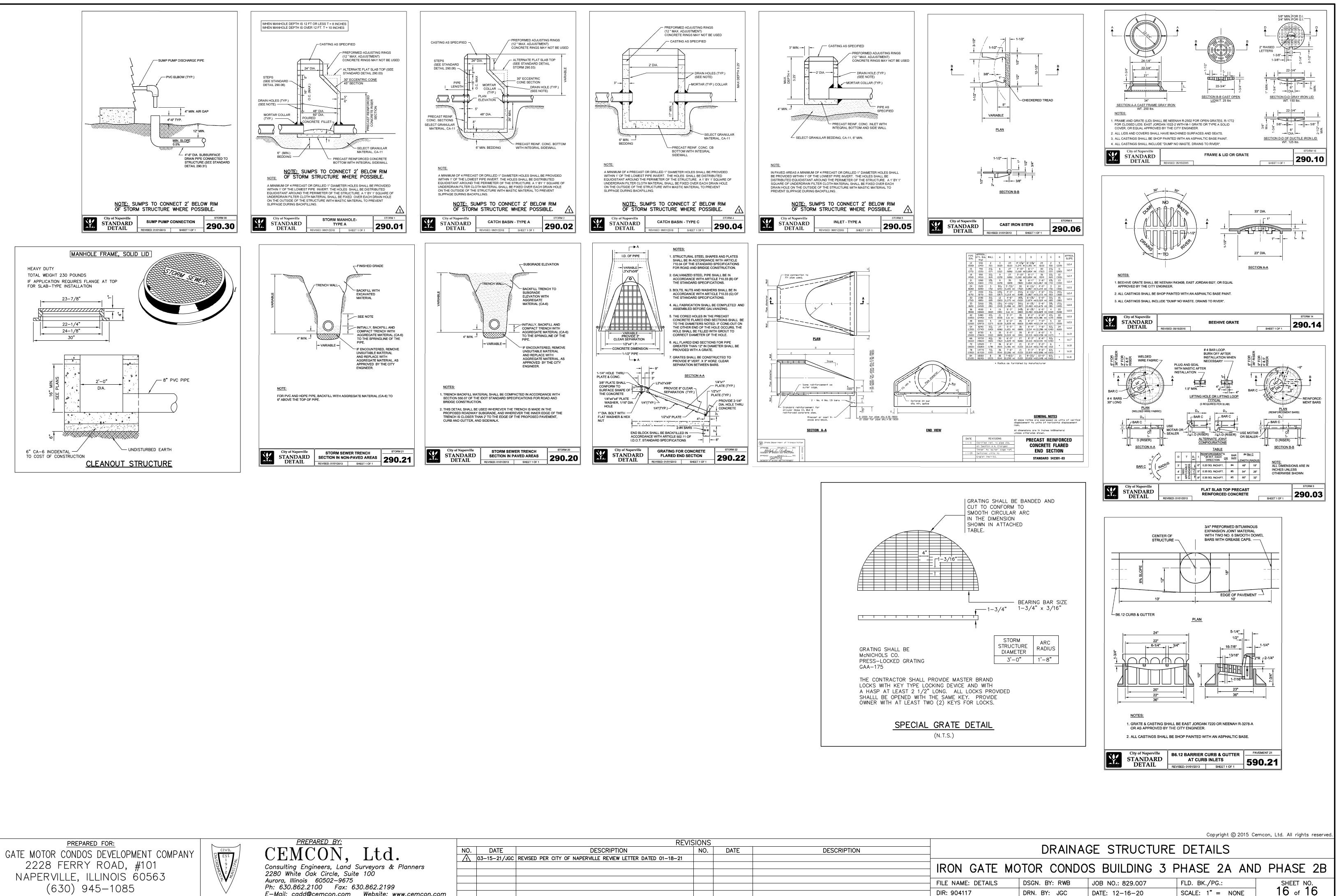
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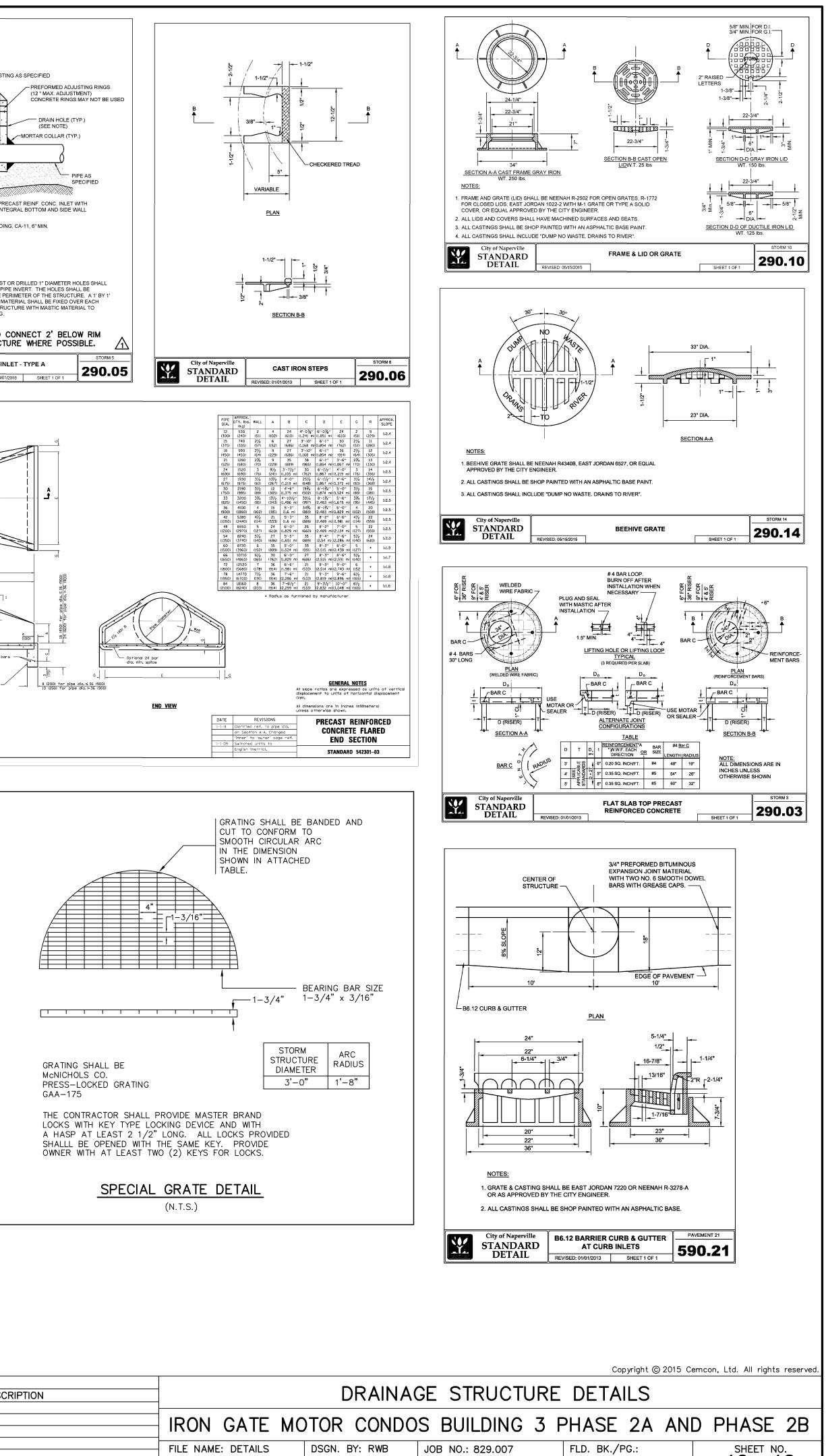
2' MIN.

- 12" MIN





Ph: 630.862.2100 Fax: 630.862.2199 E-Mail: cadd@cemcon.com Website: www.cemcon.com



DIR: 904117

DRN. BY: JGC

DATE: 12-16-20

SCALE: 1" = NONE

	REVISIONS									
	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION				
	Λ	03-15-21/JGC	REVISED PER CITY OF NAPERVILLE REVIEW LETTER DATED 01-18-21							
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