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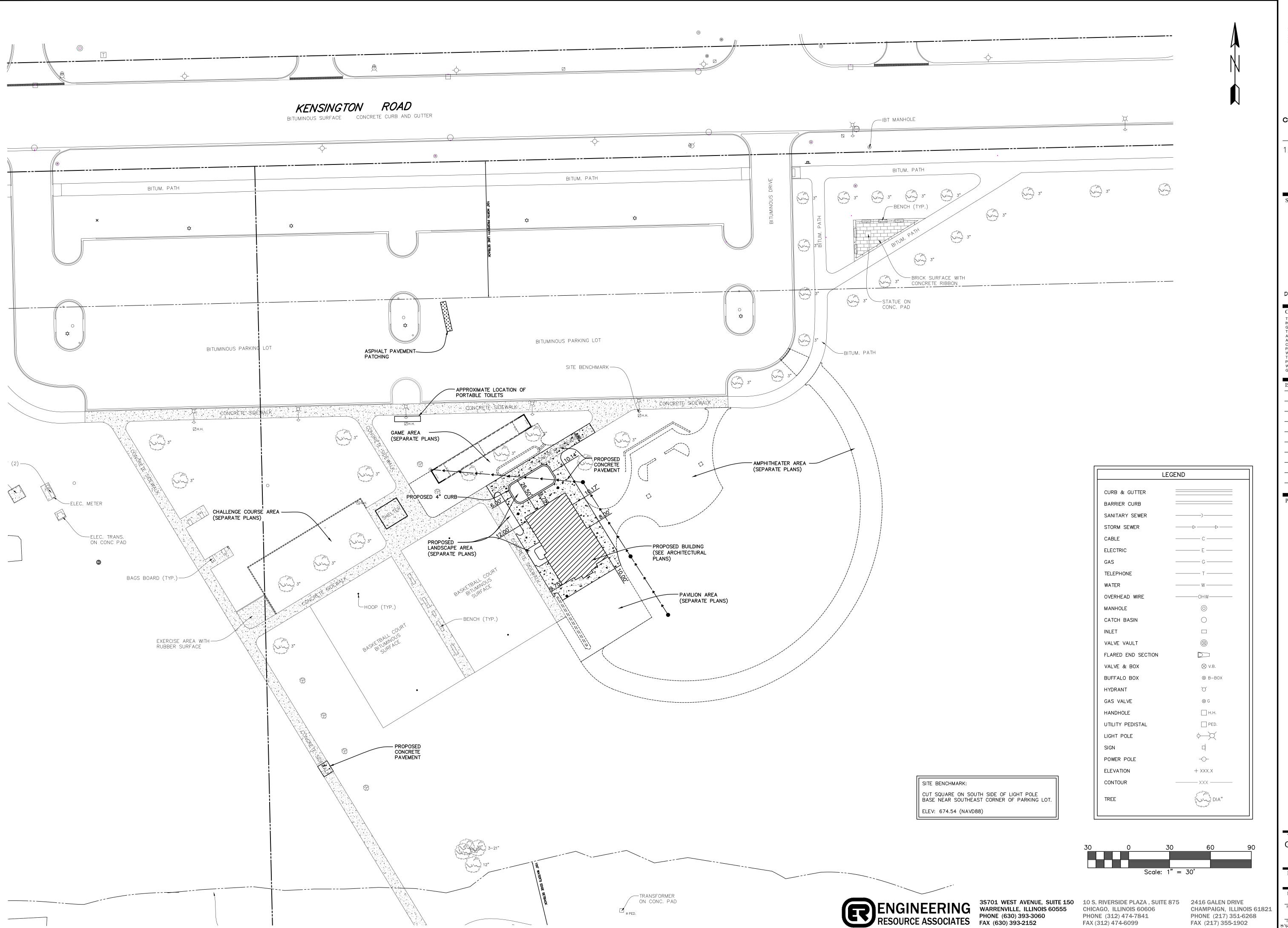
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	1	07/29/2022	ISSUE FOR PERMIT & BII
	2	10/04/2022	PERMIT REVISIONS
	3	10/19/2022	PERMIT REVISIONS

PROJECT:

EXISTING CONDITIONS AND DEMOLITION PLAN

	DATE: 07/292022		PROJECT # 2022-053
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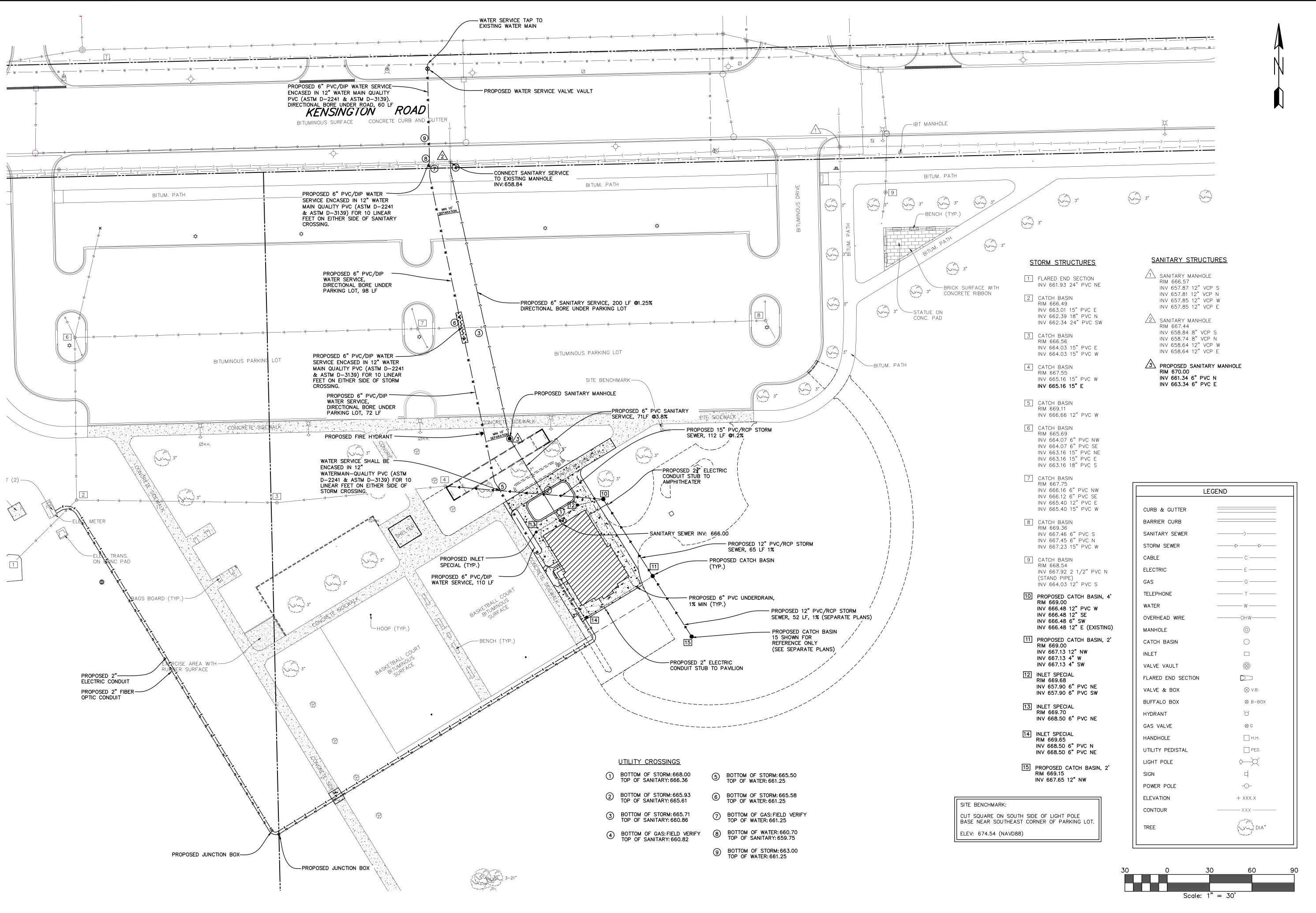
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PROJECT:

GEOMETRY PLAN

	DATE: 07/29	9/2022	PROJECT # 2022-053
	PRINCIPAL:	JM	SHEET:
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1	07/29/2022	ISSUE FOR PERMIT & BI
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PROJECT:

UTILITY PLAN

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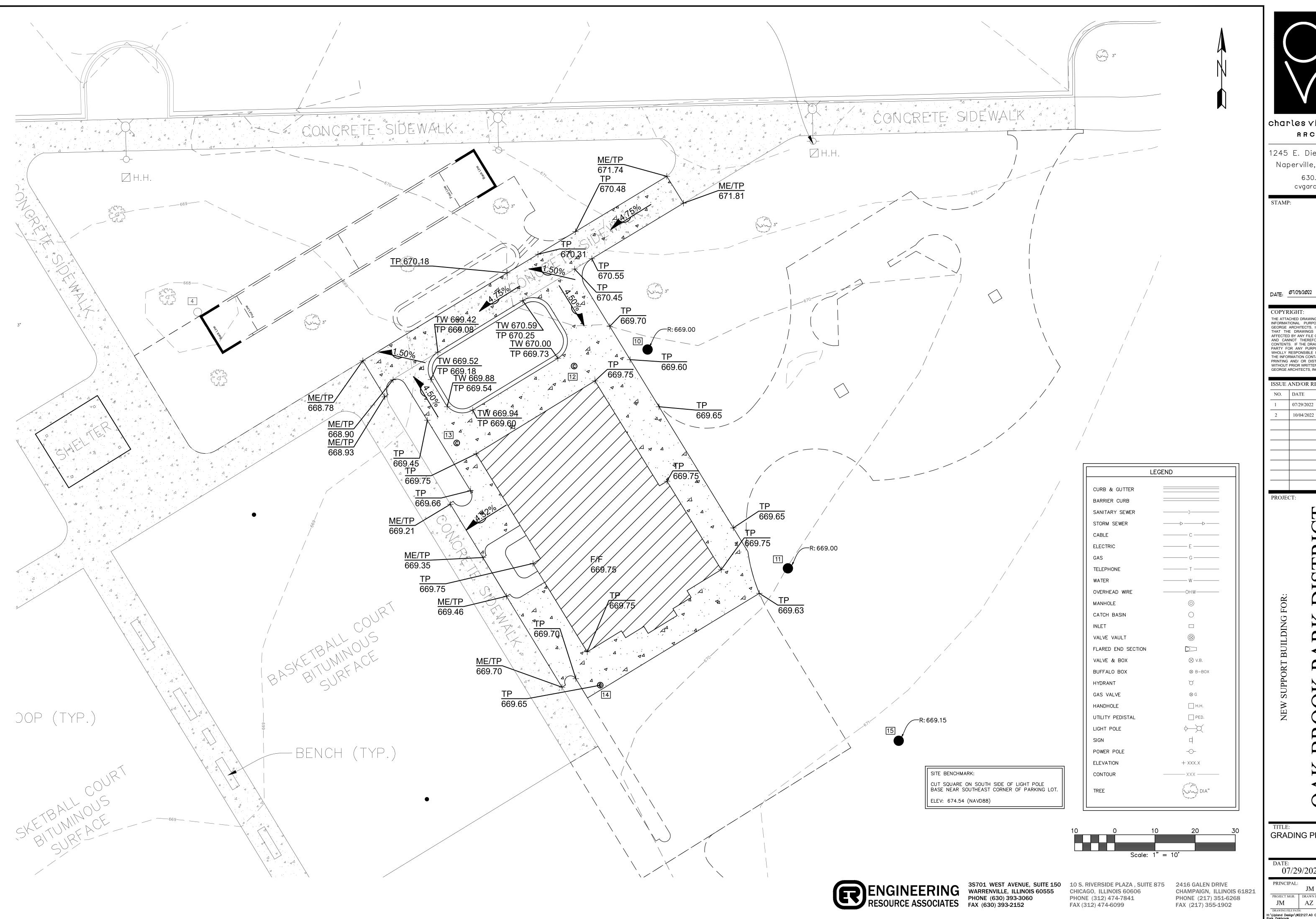
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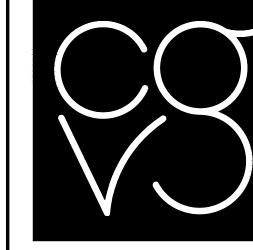
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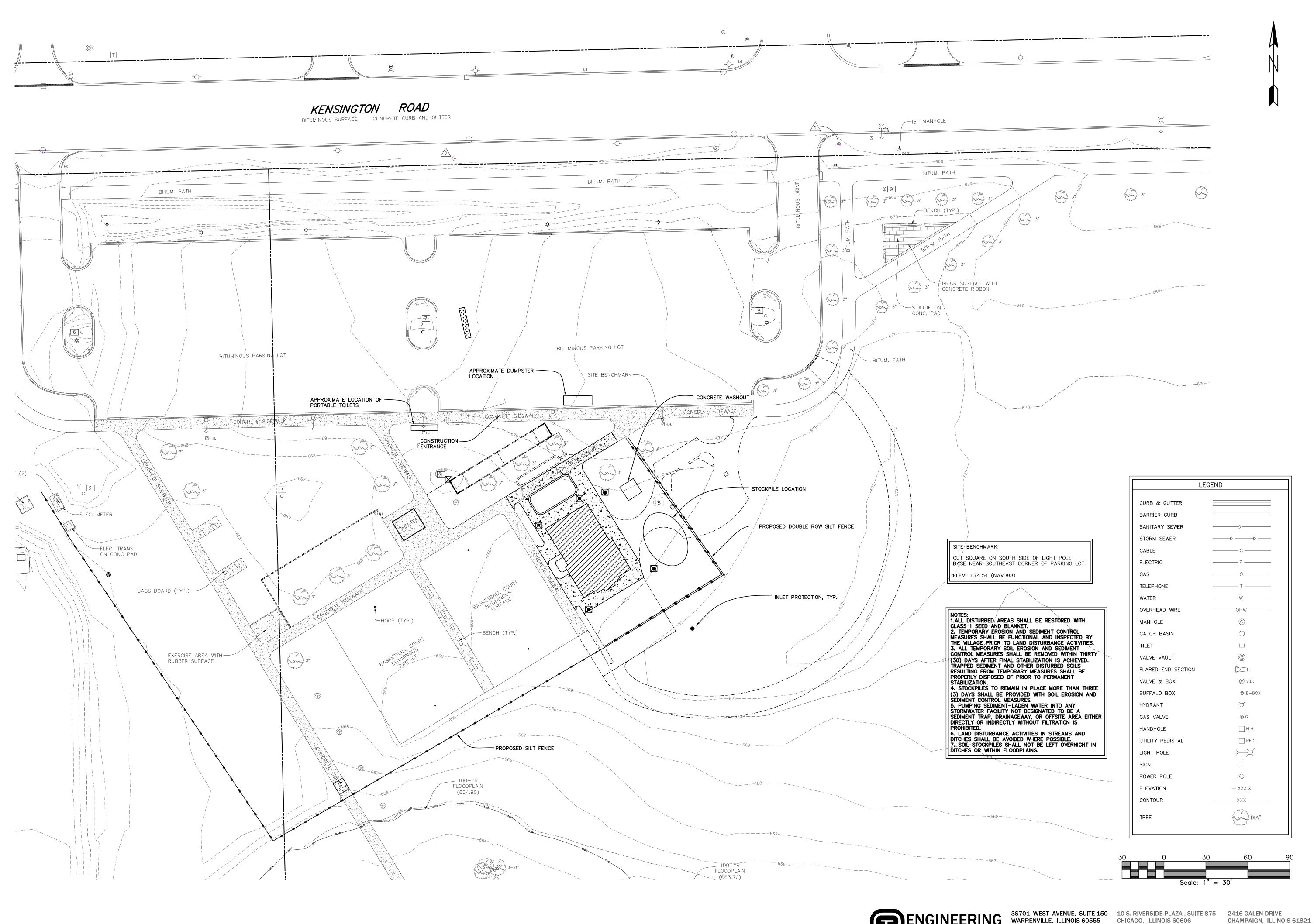
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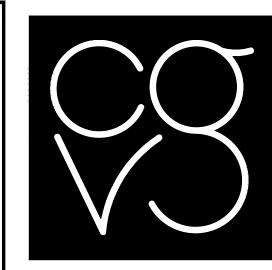
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PROJECT:

TITLE:
GRADING PLAN

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21	PRINCIPAL:	JM	SHEET:
	PROJECT MGR: JM	DRAWN BY: AZ	C-4
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	Updated by: azielins	ki 10/4/2022	





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PROJECT:

EROSION CONTROL PLAN

DATE: 07/29	9/2022	PROJECT # 2022-053
PRINCIPAL: PROJECT MGR: JM	JM DRAWN BY: AZ	shеет: С-5
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RESOURCE ASSOCIATES PHONE (630) 393-3060 FAX (630) 393-2152

PHONE (312) 474-7841

FAX (312) 474-6099

PHONE (217) 351-6268

FAX (217) 355-1902

- 1. AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF ALL PHASES OF WORK, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING: VILLAGE OF OAKBROOK: (630) 368-5101
 - ENGINEERING RESOURCE ASSOC.: (630) 393-3060
- 2. UTILITY INFORMATION IS BASED UPON FIELD MEAUREMENTS AND BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) 48 HOURS PRIOR TO ANY

EXCAVATION WORK TO DETERMINE THE EXACT LOCATION OF ÉXISTING UTILITIES.

- 4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN THE STATE OF ILLINOIS", ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST
- "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION CONTROL AND SEDIMENTATION CONTROL IN ILLINOIS", NORTHEASTERN ILLINOIS SOIL EROSION AND SEDIMENTATION CONTROL STEERING COMMITTEE AND WILL COUNTY STORM WATER CONTROL ORDINANCE, LATEST EDITION.
- "CITY OF WARRENVILLE SUBDIVISION DESIGN STANDARDS".
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AS ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, SHALL BE CONSULTED. APPROPRIATE CONTROL METHODS SHOULD BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
- 6. UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE CITY ENGINEER, ALL OPENINGS IN ANY PAVEMENT OR TRAVELED WAY SHALL BE BACKFILLED PRIOR TO THE END OF THE
- 7. THE CONTRACTOR SHALL ESTABLISH THE NECESSARY PERFORMANCE BONDS REQUIRED. PERMITS SHALL BE OBTAINED FROM ALL OUTSIDE GOVERNMENTAL AGENCIES HAVING JURISDICTION PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF THE "APPROVED" FINAL ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
- 9. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SAME.
- 10. CONTRACTOR SHALL RESTORE OFF-SITE SURFACES TO ORIGINAL CONDITION IF DAMAGED BY
- 11. THE CONTRACTOR IS TO PROVIDE THE CITY ENGINEER WITH RECORD DRAWINGS OF ALL UTILITIES SHOWING LOCATIONS OF ALL SEWER PIPE, MAINS, SERVICE STUBS, AND STRUCTURES.
- 12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS. TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 13. THE ENGINEER WARRANTS THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PROMULGATED ON CONDITIONS GENERALLY ENCOUNTERED WITHIN THE INDUSTRY. THE ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER, WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS, FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE OWNER'S /BIDDER'S RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENT.
- 14. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, WATERMAINS, WATER SERVICE PIPES AND IN EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED IMPROVEMENTS, SIDEWALKS, AND CURB AND GUTTERS SHALL BE BACKFILLED WITH TRENCH BACKFILL (AS DEFINED IN SECTION 208 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.) USE CA-6 CRUSHED LIMESTONE ONLY; NO RECYCLED OR FINE AGGREGATE SAND.

STORM SEWER:

- 1. REINFORCED CONCRETE PIPE STORM SEWER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C-76 CLASS IV. PVC PIPE STORM SEWER (4 INCH AND 6 INCH) SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM D-3034 (SDR 35). GALVANIZED CORRUGATED STEEL CULVERT PIPE SHALL MEET OR EXCEED THE REQUIREMENTS OF AASHTO M-246, TYPE B, MINIMUM WALL THICKNESS 14 GAUGE.
- 2. SEWER PIPE JOINTS SHALL BE "O-RING" TYPE ASTM C-443 FOR RCP AND SHALL BE PUSH-ON TYPE- ASTM D-3212 FOR PVC PIPE.
- 3. MANHOLES AND CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE ASTM C-478 AND ASTM C-443
- 4. NO MORE THAN TWO PRECAST ADJUSTING RINGS WITH A MAXIMUM HEIGHT ADJUSTMENT OF 8 INCHES SHALL BE ALLOWED.
- 5. STORM SEWER MANHOLE JOINTS SHALL BE SEALED WITH PORTLAND CEMENT MORTAR, "O-RING" GASKETS, OR MASTIC MATERIAL.
- 6. INLETS SHALL BE TWENTY-FOUR (24) INCH DIAMETER PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478. 7. FOUR INCHES OF CRUSHED GRAVEL OR CRUSHED STONE AGGREGATE (ASTM C-33, SIZE NO.
- 67) SHALL BE USED AS BEDDING UNDER THE PIPE. THE BEDDING STONE SHALL BE GRADED ALONG THE ENTIRE LENGTH OF PIPE TO PROVIDE FULL BEARING. THE BEDDING STONE SHALL EXTEND TO THE SPRINGLINE OF THE PIPE. 8. THE CONTRACTOR SHALL INSTALL EARTHEN CLAY SEEPAGE BLOCKS ON ALL STORM SEWER LINES
- ENTERING THE DETENTION PONDS. THE BLOCKS SHALL BE PLACED APPROXIMATELY 10-FT OUTSIDE OF THE HIGHWATER LEVEL ON EACH STORM LINE. THE BLOCKS SHALL BE 5-FEET LONG & FULLY COMPACTED FROM THE BOTTOM OF THE TRENCH TO THE CROWN OF THE PIPE.
- 9. RIM GRADES IN CURB AND GUTTER ARE EDGE OF PAVEMENT ELEVATIONS.
- 10. ALL EXISTING FIELD TILE AND/OR DRAIN PIPES ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH A NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND GRADE AND PUT INTO AN ACCEPTABLE OPERATING CONDITION. A RECORD OF ALL FIFLD THE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER FOR "RECORD DRAWINGS" ON COMPLETION OF THE PROJECT. THE COST OF THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- 11. ALL FOOTING DRAINS AND DOWNSPOUTS SHALL DISCHARGE TO THE STORM SYSTEM.
- 12. ANY PIPES OR MANHOLES CONTAINING SEDIMENT SHALL BE CLEANED OUT PRIOR TO FINAL

- PAVEMENT, SIDEWALK, AND CURB & GUTTER:
- 1. PAVEMENT THICKNESS SHALL COMPLY WITH THE CITY OF WARRENVILLE REQUIREMENTS.
- 2. SIDEWALK SHALL BE FIVE (5) INCH PORTLAND CEMENT CONCRETE, FIVE (5) FEET WIDE, AND INSTALLED ONE (1) FOOT OFF OF THE RIGHT-OF-WAY LINE WITHIN THE PUBLIC RIGHT-OF-WAY UNLESS ENGINEERING PLAN SHOWS OTHERWISE. SIDEWALK SHALL BE SIX INCHES THICK WHERE PASSING ACROSS AN EXISTING OR PROPOSED COMMERCIAL DRIVE AND WHERE PASSING OVER PUBLIC UTILITY LINES.
- 3. HANDICAPPED RAMPS AND DEPRESSED CURBS SHALL BE PROVIDED WHEREVER SIDEWALK INTERSECTS CURB IN ACCORDANCE WITH IDOT SPECIFICATIONS.
- 4. THE CURB AND GUTTER BASE COURSE SHALL BE CA-6, TRIMMED OR FILLED AS NECESSARY TO PROVIDE A 10" DEPTH CURB AND GUTTER AT GUTTER FLAG. PRIOR TO CONCRETE PLACEMENT, THE BASE COURSE SHALL BE COMPACTED AND PROOF-ROLLED.
- 5. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT 40' MAXIMUM SPACING, ALL PC'S AND PT'S OF INTERSECTION RETURNS (RADII) AND ALL OTHER SHORT RADII, AND 4' EACH SIDE OF CURB AND GUTTER FRAMES. TWO NO. 5 REINFORCING BARS SHALL BE PLACED CONTINUOUSLY BETWEEN EXPANSION JOINTS. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY FEET ON CENTER.
- 6. CONTRACTION JOINTS SHALL BE SAWCUT AT 10-FOOT MAXIMUM INTERVALS TO A DEPTH OF 2.5 INCHES. CONTRACTION JOINT SPACES SHALL BE SEALED WITH A COLD-POURED JOINT COMPOUND. CONCRETE CURING COMPOUND SHALL BE APPLIED AS FINISHING WORK PROCEEDS.
- 7. THE CONTRACTOR SHALL BACKFILL CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIALS. THE CURB IS TO BE SAWCUT WITHIN 24 HOURS AFTER PLACEMENT. GUTTER PITCH SHALL BE REVERSED WHERE APPROPRIATE FOR
- 8. ALL CURBS CONSTRUCTED OVER A UTILITY TRENCH ON THE MAIN DRIVE AND ALL CURBS ON THE CUL-DEL-SAC DRIVES SHALL BE REINFORCED WITH TWO NO. 4 REBARS FOR A LENGTH OF 20 FEET CENTERED OVER THE TRENCH. SIDEWALKS SHALL BE TREATED IN THE SAME MANNER USING THREE NO. 6 BARS OVER UTILITIES.
- 9. PRIOR TO PLACING ANY PAVEMENT MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY PREPARING AND COMPACTING THE SUBGRADE. BOTH THE CURB AND GUTTER AND PAVEMENT BASE COURSE SHALL BE PROOF-ROLLED WITH A FULLY-LOADED DUMP TRUCK. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE PROOF-ROLLING. ADDITIONAL PROOF-ROLLS MAY BE NECESSARY TO VERIFY THAT ANY UNSTABLE AREAS HAVE BEEN REPAIRED. NO PAVEMENT MATERIAL IS TO BE PLACED ON A WET OR SOFT SUBGRADE. DEVELOPER'S /OWNER'S MATERIAL TESTING AGENT SHALL ALSO WITNESS PROCEDURE TO MAKE AND CERTIFY REPAIRS IN WRITING.
- 10. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT TO A NEAT EDGE ALONG LIMITS OF PROPOSED REMOVAL BEFORE REMOVAL OPERATIONS BEGIN.

INCHES SHALL BE ALLOWED.

- ALL FLEXIBLE GRAVITY SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321-89. ALL FLEXIBLE GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR 26 PIPE MEETING THE REQUIREMENTS OF ASTM D-3034 WITH JOINTS TO BE ELASTOMERIC GASKETS COMPLYING WITH ASTM F-477 AND PRESSURE RATED IN ACCORDANCE WITH ASTM D-3212.
- WITH JOINTS TO BE IN ACCORDANCE WITH ASTM D-3139 FOR 10' EITHER SIDE OF CROSSING. 2. EMBEDMENT MATERIALS FOR BEDDING, HAUNCHING AND INITIAL BACKFILL TO AT LEAST TWELVE INCHES OVER THE TOP OF THE PIPE WITH CLASS 1A OR 1B OR II OR III. PROCESSED MATERIAL PRODUCED FOR HIGHWAY CONSTRUCTION USED IN THE PROJECT CLASSIFIED ACCORDING TO PARTICLE SIZE, SHAPE AND GRADATION IN ACCORDANCE WITH ASTM D-2321-89, SECTION 9, TABLE 1.

WATERMAIN QUALITY PIPE SHALL BE PVC SDR 26 MEETING THE REQUIREMENTS OF ASTM D-2241

- 3. ALL RIGID GRAVITY SEWER PIPE TO BE INSTALLED IN ACCORDANCE WITH ASTM C-12 AND BEDDING MATERIAL A, B AND TY C.
- 4. PICKHOLES IN ALL MANHOLES LIKELY TO BE FLOODED SHALL NOT BE LARGER THE ONE INCH IN DIAMETER AND SHALL BE OF THE CONCEALED TYPE.
- 5. THE MINIMUM BUILDING GRAVITY SANITARY SEWER SERVICE SIZE SHALL BE BE SIX (6) INCHES IN DIAMETER. THE SERVICE LATERAL SHALL SLOPE TOWARD THE MAIN AT THE MINIMUM RATE OF ONE (1) PERCENT.
- 6. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE- ASTM C-478 WITH RUBBER BOOTS.
- 7. NO MORE THAN TWO PRECAST ADJUSTING RINGS WITH A MAXIMUM HEIGHT ADJUSTMENT OF EIGHT
- 8. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER-TIGHT PIPE TO MANHOLE SLEEVES OR SEALS, PER ASTM C-923.
- 9. MANHOLES SHALL INCLUDE WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM.
- 10. ALL SANITARY SEWER CONSTRUCTION REQUIRES FOUR (4) INCHES OF CA-7 CRUSHED GRAVEL OR CRUSHED STONE BEDDING UNDER THE PIPE. BEDDING STONE SHALL EXTEND TO A POINT TWELVE INCHES ABOVE THE TOP OF PIPE.
- 11. THE INSTALLATION OF SANITARY SEWER AND APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2321 FOR PVC PIPE AND FITTINGS.
- 12. BACKFILLING OF THE TRENCH SHALL BE ACCOMPLISHED BY CAREFUL REPLACEMENT OF THE EXCAVATED MATERIAL AFTER THE PIPE, BEDDING, AND THE COVER MATERIAL HAVE BEEN INSTALLED, ANY PIPE INSTALLED UNDER OR WITHIN TWO (2) FEET OF A PAVEMENT EDGE, SIDEWALK, OR CURB AND GUTTER SHALL BE BACKFILLED TO THE TOP OF THE TRENCH WITH CA-6 MATERIAL.
- 13. "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE DISSIMILAR MATERIALS. ALL CHANGES OF MATERIAL SHALL OCCUR INSIDE A MANHOLE.
- 14. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE. TEE. OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHOULD BE USED:
 - A.) CIRCULAR SAWCUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
 - B.) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- C.) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLE IT FIRMLY IN PLACE.
- 15. MANHOLE FRAMES SHALL BE NEENAH NO. R-1712 WITH A SELF-SEALING LID EMBOSSED WITH "SANITARY
- 16. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.

SEWER", UNLESS OTHERWISE NOTED.

- 7. ALL SANITARY SEWER PIPES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, AS A MINIMUM, AND WITH FLAGG CREEK WATER RECLAMATION DISTRICT REQUIREMENTS, INCLUDING VISUAL, TELEVISED, INFILTRATION, EXFILTRATION, AIR TESTS, LEAKAGE TESTS AND DEFLECTION TESTS.
- 18. MANHOLES SHALL BE TESTED PER ASTM C969 OR C1244.
- 19. CASING SHALL BE DUCTILE IRON OR STEEL. MANUFACTURED PIPE CHOCKS MUST BE USED BETWEEN THE PIPE AND THE CASING. PEA GRAVEL SHALL BE JETTED THROUGH THE CASING, WITH CONCRETE MORTAR ON THE ENDS.

SITE GRADING:

- 1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS MAY REQUIRE EARTH EXCAVATION AND COMPACTED EARTH FILL MATERIAL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS.
- 2. PLACEMENT OF THE EXCAVATED MATERIAL SHALL BE IN AREAS DESIGNATED BY THE OWNER FOR FUTURE USE, WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING
- 3. COMPACTION OF THE EXCAVATED MATERIAL PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL SHALL BE MODERATE.
- 4. EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE
- 5. EXCAVATION OF EARTH AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL: THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.3' +/- OF THE PLAN SUBGRADE ELEVATIONS. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE 0.1'+/-, OR SUCH THAT THE EARTH MATERIAL SHALL BALANCE AS PART OF THE FINE GRADING OPERATION.
- 6. PLACEMENT AND COMPACTION OF MATERIALS SHALL CONFORM TO I.D.O.T. SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

SOIL EROSION CONTROL PLAN:

- 1. ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE ANY WORK BEGINS ON SITE.
- 2. STOCKPILE SHALL NOT BE LOCATED IN SPECIAL MANAGEMENT AREAS.
- 3. WHERE FENCING IS USED, THE CONDITION OF THE FENCE SHALL BE CHECKED AT MINIMUM EVERY OTHER WEEK, OR AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION.
- 4. ANY STORM WATER DRAINAGE STRUCTURES THAT HAVE THE POTENTIAL TO ACCEPT RUNOFF CONTAINING SUSPENDED SOIL PARTICLES SHALL BE SURROUNDED WITH STAKED AND BUTTED
- 5. ALL BALES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED, AND SHALL ALSO BE CHECKED AT REGULAR INTERVALS TO MAINTAIN THEIR EFFECTIVENESS IN TERMS OF TOTAL CONTACT WITH THE EARTH BELOW. SILT FENCING CAN REMAIN IN PLACE THROUGH THE CONSTRUCTION OF THE HOUSES/BUILDINGS TO SERVE AS EROSION CONTROL FOR THAT CONSTRUCTION.
- 6. AS EACH PHASE ON THE ENTIRE SITE IS COMPLETED, BALES ARE TO BE REMOVED AND THE ENTIRE AREA EITHER SODDED OR SEEDED AFTER SEDIMENT HAS BEEN REDISTRIBUTED. IF WEATHER CONDITIONS ARE SUCH THAT SEEDING WOULD NOT BE EFFECTIVE, THEN THE STOCK PILES SHOULD BE EITHER MULCHED OR COVERED AND GRADED SO THAT ALL SEDIMENT FROM EROSION WILL BE CONFINED WITHIN THE BOUNDARIES OF THE SITE.
- 7. SEEDING SHALL BE DONE PER "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL, LATEST EDITION AND LAKE COUNTY STORM WATER CONTROL ORDINANCE.
- 8. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, STABILIZED CONSTRUCTION WORK ENTRANCES SHALL BE CONSTRUCTED OF GRAVEL AND SHALL EXTEND AT LEAST 100 FEET INTO THE JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY.
- 9. THE CONTRACTOR SHALL HAVE THE DETENTION POND VOLUME VERIFIED BY A LICENSED ENGINEER OR SURVEYOR PRIOR TO THE INSTALLATION OF TOPSOIL AND SEEDING/SOD. THE COST OF SAID VERIFICATION SHALL BE BORNE BY THE CONTRACTOR.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF ANY EXCESS EXCAVATED MATERIAL.
- 11. TOPSOIL STOCK PILES SHALL BE PROTECTED. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT & EROSION CONTROL SHALL BE PROVIDED
- T IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL THE SEDIMENTATION CONTROL MEASURES. INSPECTIONS SHALL BE CONDUCTED AFTER A RAIN EVENT, AND IF MAINTENANCE OF THE STRUCTURES IS NECESSARY, INCLUDING REPAIR OF DAMAGE AND REMOVAL OF DEPOSITS OR SEDIMENT FROM VEGETATIVE FILTERS. IT SHALL BE

SILT FENCE PLAN

Filter Fabric ____ Fastener - Min. No. 10 Gage Wire

-Filter Fabric

. Undisturbed Ground Line

-Compacted Backfill

_ _ **5**' Max

(Typ)

ELEVATION

FABRIC ANCHOR DETAIL

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading

592 Geotextile Table 1 or 2, Class with equivalent opening size of

2. Filter fabric shall meet the requirements of material specification

3. Fence posts shall be either standard steel post or wood post with a

at least 30 for nonwoven and 40 for woven.

minimum cross—sectional area of 3.0 sq. in.

and site stabilization.

Project

Designed

Checked

4 Per Post Required. (Typ.)

VILLAGE OF OAKBROOK WATER SYSTEM CONSTRUCTION STANDARDS

Water distribution mains shall be designed and constructed to conform with the long range water plans of the Village with respect to size and general location. Dead-end water mains shall not be constructed unless plans call for the main to be a part of a future loop system and an approved flushing device installed at the dead-end.

All water mains shall have a minimum diameter of 6" (150 mm). Minimum depth of bury (cover) shall be 5'-6" (1.7 m).

Water main valves should be placed at intervals not exceeding 1,200' (350 m) to provide for isolating small sections of main and on as many legs of a "cross" or "tee" as deemed appropriate by the Village Engineer. All valves in existing or proposed pavement or sidewalk areas shall be in valve vaults as approved by the Village Engineer. Valves in grassy or unpaved areas may be installed with valve boxes as approved by the Village Engineer.

Water mains and water services shall be installed in separate trenches and at least 10' (3.0 m) horizontal away from storm sewers and storm services and from sanitary sewers and sanitary services unless otherwise approved by the Village in writing.

The service valve or curb stop shall be located 2' (0.5 m) from the property line (if within ROW) or easement line (if within easement). For single family residential use, valve boxes (b-boxes) will be permitted on these valves in any location. For all other use, valve boxes (b-boxes) will be permitted on these valves provided they do not fall within pavement or sidewalk in which case valve vaults will be required.

All water services shall be laid in public ways or easements to the premises so as to enter the building to be served by the most direct route from the water main.

A metered check valve shall be installed on all fire lines at the owner's expense and shall be located inside the building as approved by the Public Works Director.

Each service extension shall be tested prior to backfilling in the presence of a Water Division inspector and shall show no leakage under full water pressure.

Easements shall be a minimum of 20' (6.0 m) in width for water mains that are 10" (250 mm) in diameter or less and a minimum of 25' (7.5 m) in width for water mains that are 12" (300 mm) in diameter or more.

No water main or water service shall be backfilled until approved to do so by the Engineering Department or Water Division.

When a water main or service crosses below a sewer pipe, it is the Village's policy to not place the water main or service in a carrier pipe. Rather, the sewer shall be water main grade pipe or placed within a carrier pipe. In those cases, PVC pipe meeting ASTM D-2241-SDR-21 or DIWM pipe shall be acceptable as water main grade.

Filter Fabric

charles vincent george ARCHITECTS

1245 E. Diehl Rd. Suite 101 Naperville, Illinois 60563 630.357.2023

cvgarchitects.com

STAMP:



Ø7/29/2*0*22 DATE:

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GEORGE .	ARCHITECTS, INC.		
ISSUE	ISSUE AND/OR REVISIONS:		
NO.	DATE	DESCRIPTION	
1	07/29/2022	ISSUE FOR PERMIT & BID	
3	10/19/2022	PERMIT REVISIONS	

PROJECT

H

GENERAL NOTES

07/29/2022 2022-053 PRINCIPAL PROJECT MGR: JM AZDRAWING FILE E H: \Upland Design\W22127.A0 Centro Park Oakbrook D-OSLAD\CADD\W22127.A General otes and Details.dwg Updated by: azielinski 10/19/2022

Place the end post of the second fence inside the end post of the first fence.

Project

Checked

Approved

STANDARD DWG. NO.

IUM-620

DATE 3-16-12

Step 2

Step 3

Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.

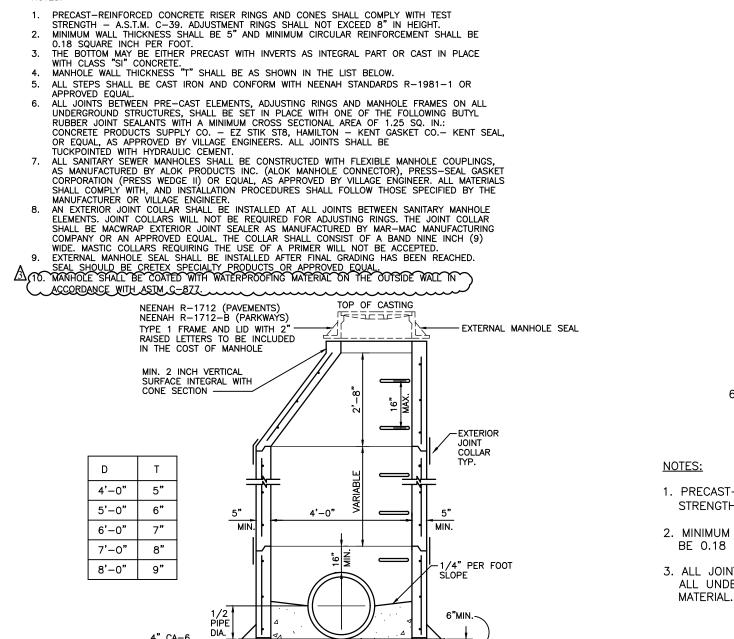
Cut the fabric near the bottom of the stakes to accommodate the 6" Drive both posts a minimum of 18 inches into the ground and bury the

Compact backfill (particularly at splices) completely to prevent stormwater piping.

ATTACHING TWO SILT FENCES

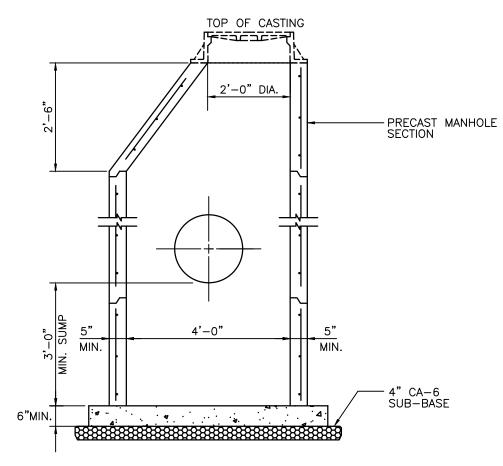
SILT FENCE - SPLICING TWO FENCES

IUM-620B(W)SHEET 1 OF 1 DATE 3-16-2012



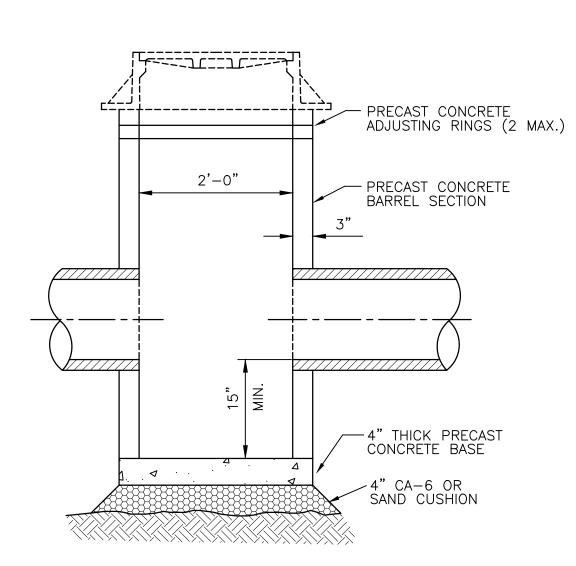
TYPE "C" MANHOLE IS WITHOUT CONE SECTION

SANITARY SEWER MANHOLE, TYPE A



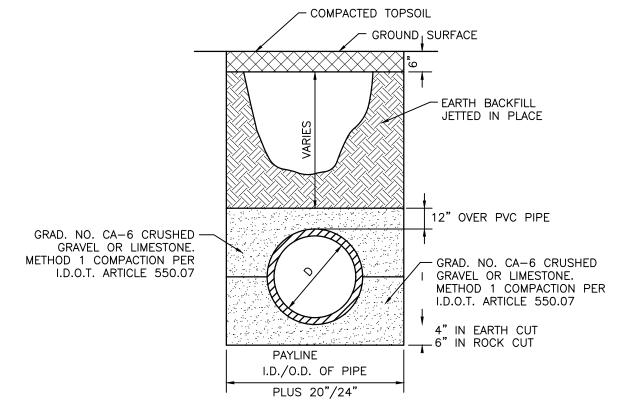
- 1. PRECAST-REINFORCED CONCRETE RISER RINGS AND CONES SHALL COMPLY WITH TEST STRENGTH - A.S.T.M. C-39. ADJUSTMENT RINGS SHALL NOT EXCEED 8" IN HEIGHT.
- 2. MINIMUM WALL THICKNESS SHALL BE 5" AND MINIMUM CIRCULAR REINFORCEMENT SHALL BE 0.18 SQUARE INCH PER FOOT.
- 3. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH FLEXIBLE BUTYL GASKET

CATCH BASIN, TYPE A NOT TO SCALE

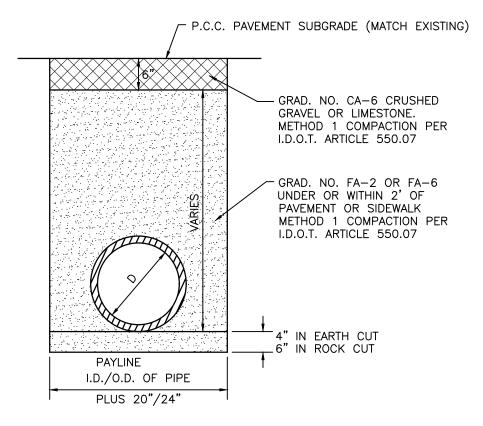


CATCH BASIN, TYPE C

- 1. PRECAST-REINFORCED CONCRETE RISER RINGS AND CONES SHALL COMPLY WITH TEST STRENGTH - A.S.T.M. C-39. ADJUSTMENT RINGS SHALL NOT EXCEED 8" IN HEIGHT.
- 2. MINIMUM WALL THICKNESS SHALL BE 5" AND MINIMUM CIRCULAR REINFORCEMENT SHALL BE 0.18 SQUARE INCH PER FOOT.
- 3. THE BOTTOM MAY BE EITHER PRECAST AS INTEGRAL PART OR CAST IN PLACE WITH CLASS "SI" CONCRETE.
- 4. MANHOLE WALL THICKNESS "T" SHALL BE AS SHOWN IN THE LIST BELOW.
- 5. ALL STEPS SHALL BE CAST IRON.
- 6. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH A RUBBER JOINT SEALANT, AND ALL JOINTS TO BE TUCKPOINTED WITH HYDRAULIC CEMENT.
- 7. FOR LOCATIONS WITH A BEEHIVE GRATE, SIX-INCHES OF ADJUSTING RINGS SHALL BE INCLUDED ON TOP OF THE SLAB TO ALLOW TOPSOIL PLACEMENT AND GRASS ESTABLISHMENT ABOVE THE
- 8. IN GENERAL, USE TYE 8 GRATE IN LAWN AREAS.IN LAWN AREAS WHERE TREES ARE PRESENT, IN PUBLIC RIGHT-OF-WAY, AND IN DITCHES, USE STOOL TYPE GRATE. CONTRACTOR SHALL CONFIRM GRATE TYPES WITH ENGINEER.

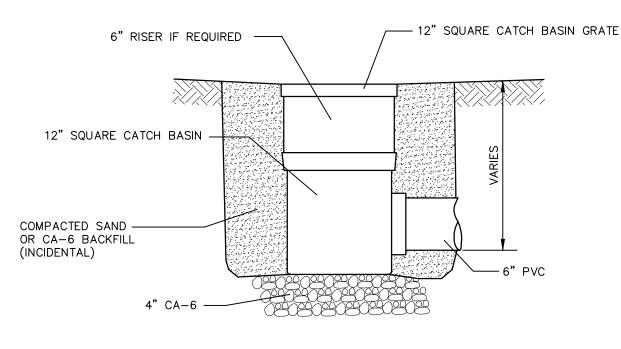


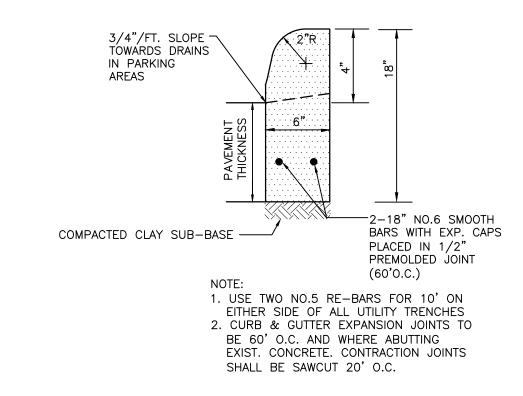
TRENCH SECTION IN UNPAVED AREAS



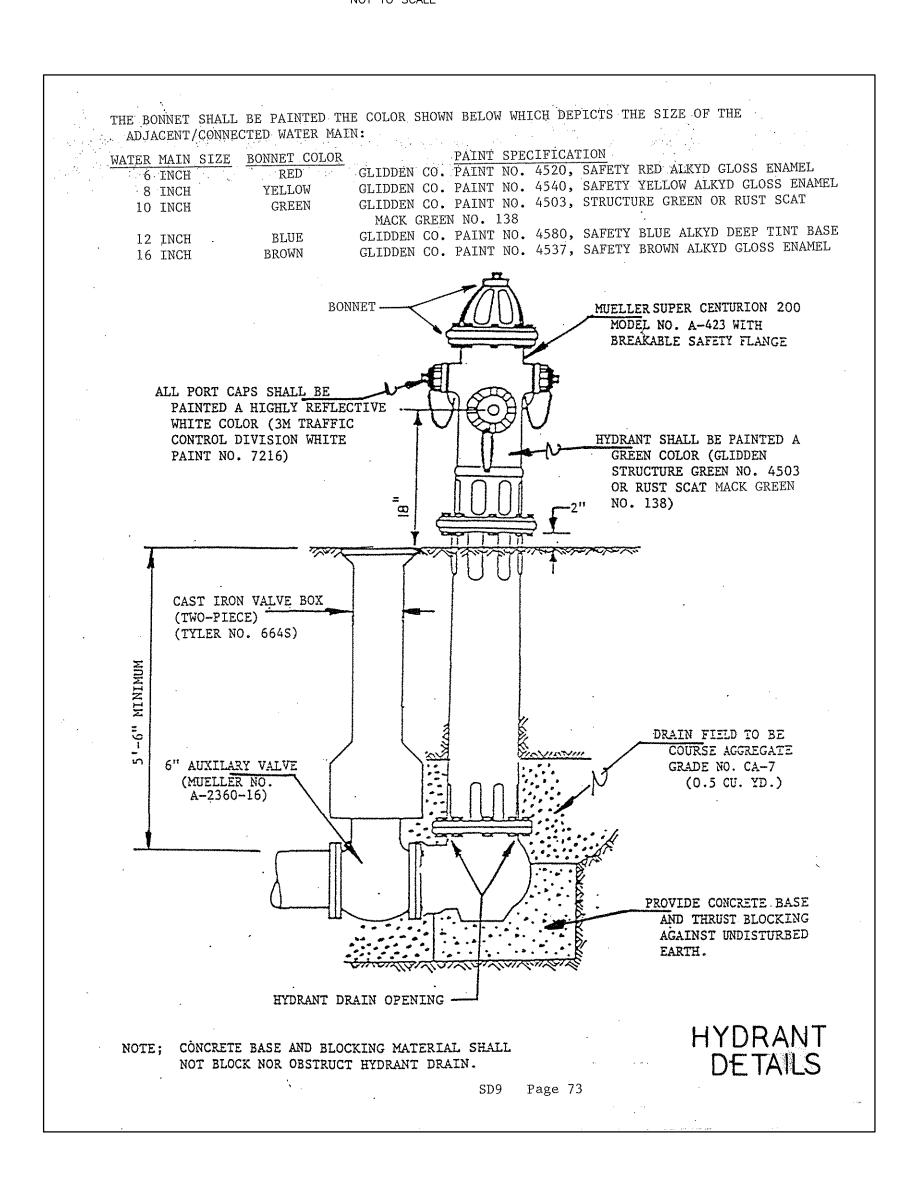
TRENCH SECTION IN PAVED AREAS NOT TO SCALE

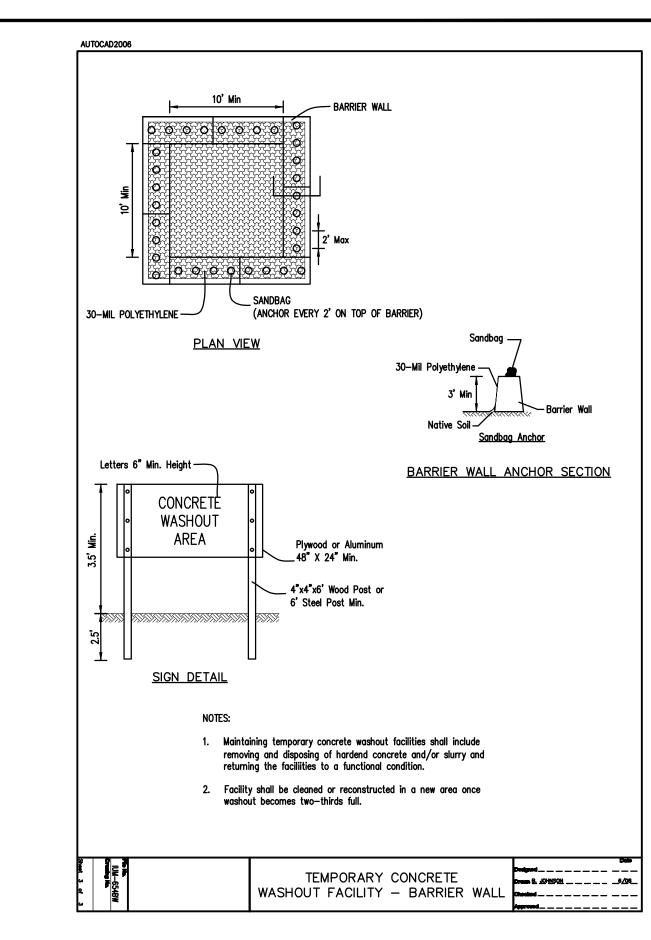
TRENCH BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES IN PAVED AREAS

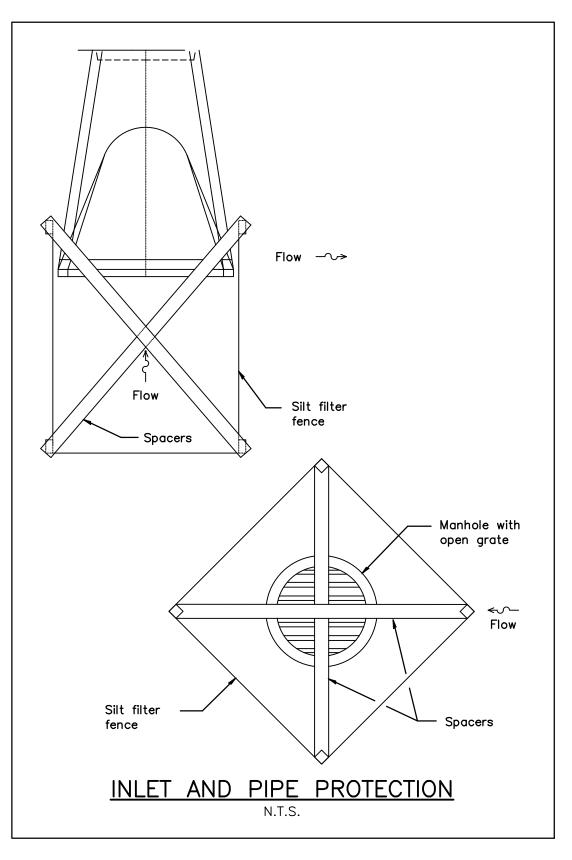


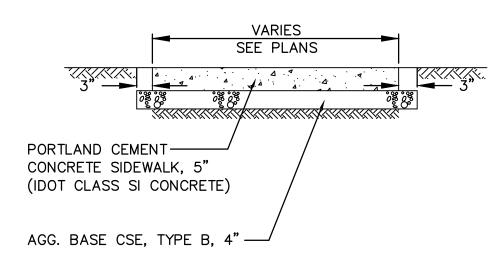


BARRIER CURE









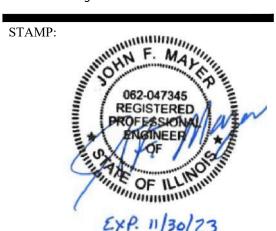
NOT TO SCALE

CONCRETE SIDEWALK DETAIL

charles vincent george ARCHITECTS

1245 E. Diehl Rd. Suite 101 Naperville, Illinois 60563

> 630.357.2023 cvgarchitects.com



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PROJECT:

DETAILS

07/29/2022 2022-053 PRINCIPAL: PROJECT MGR: DRAWN BY: JM AZDRAWING FILE PAT \\192.168.1.106\H_drive\Upland
Design\W22127.A0 Central Park
Oakbrook PD-OSLAD\CADD\W22127.A
General Notes and Details.dwg
Updated by: azielinski 10/27/2022