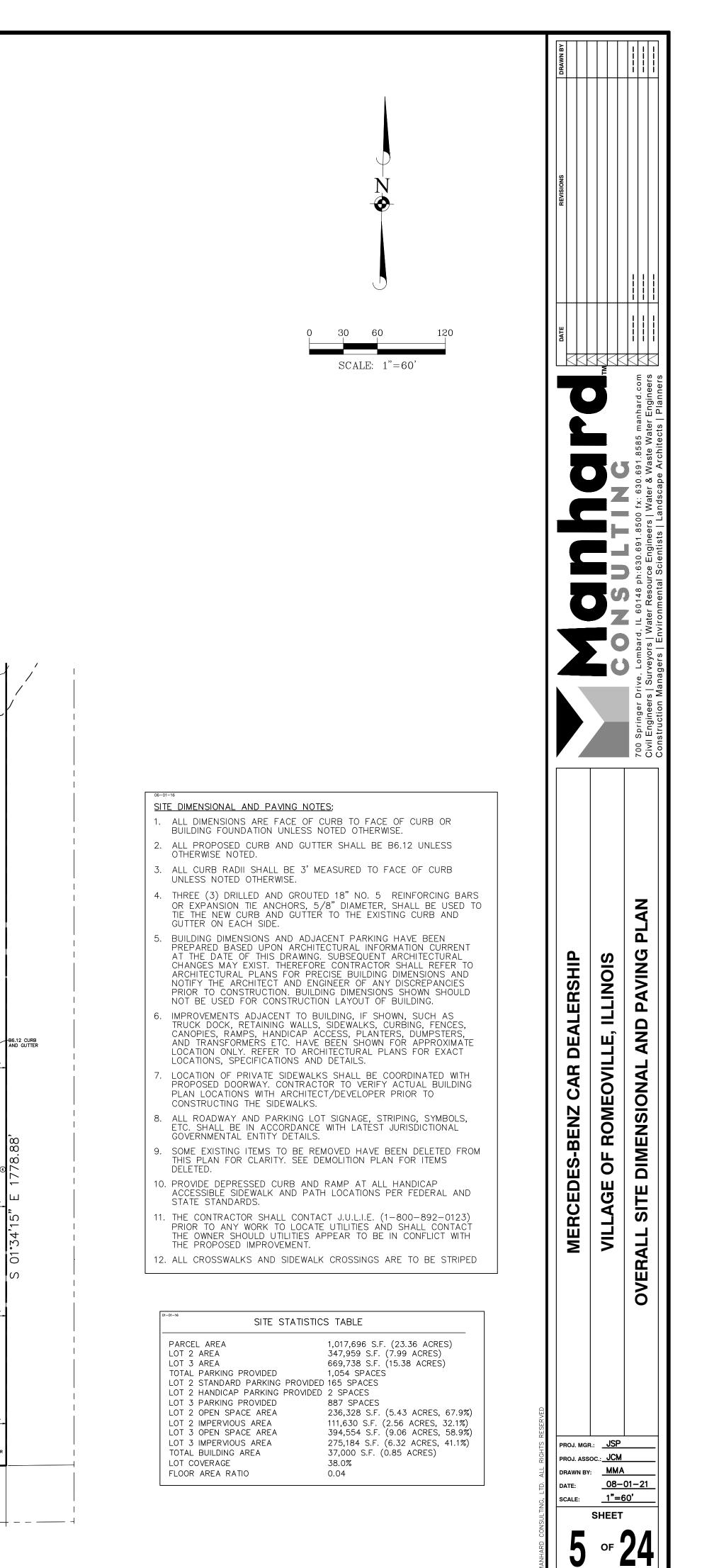
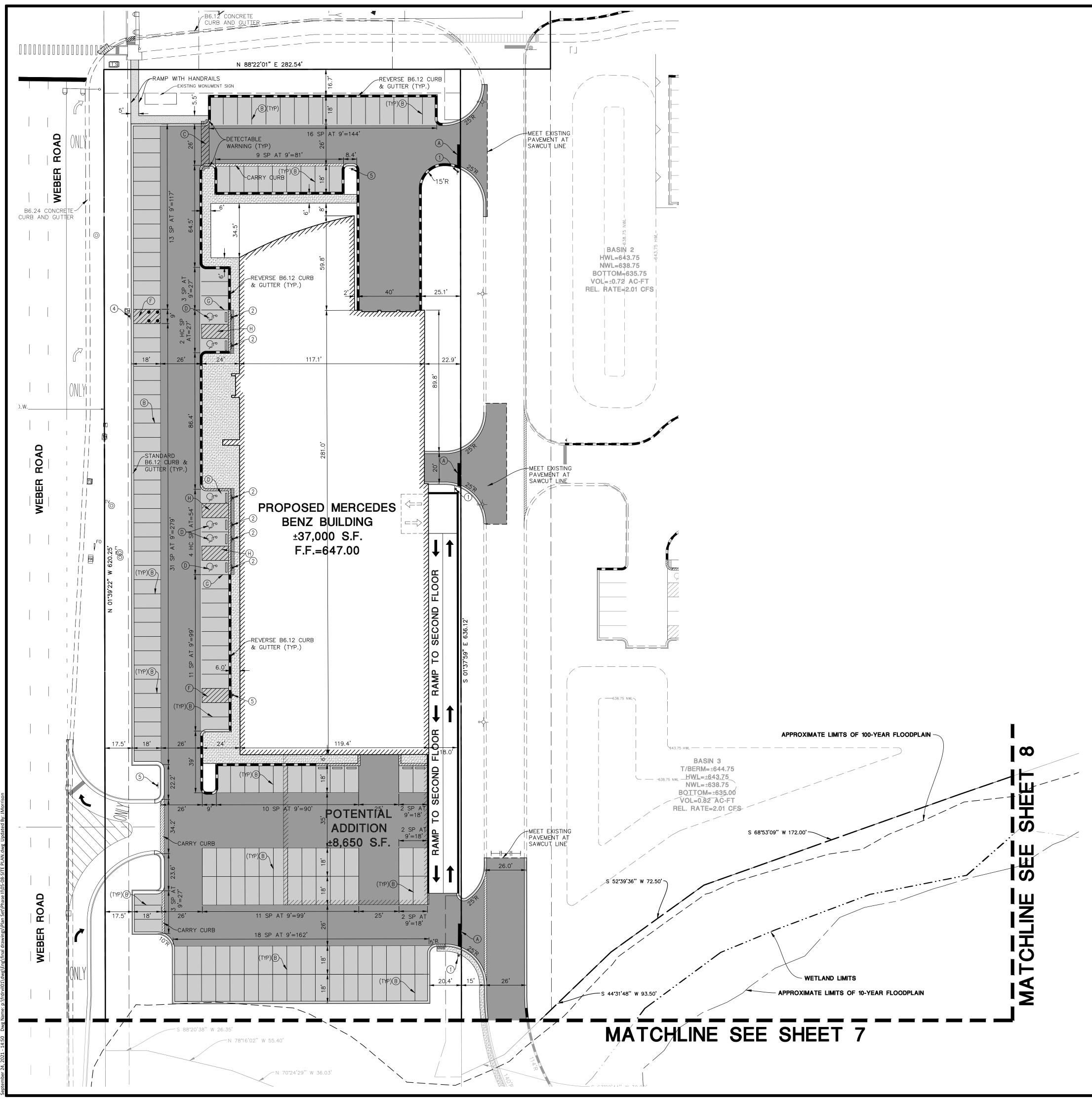
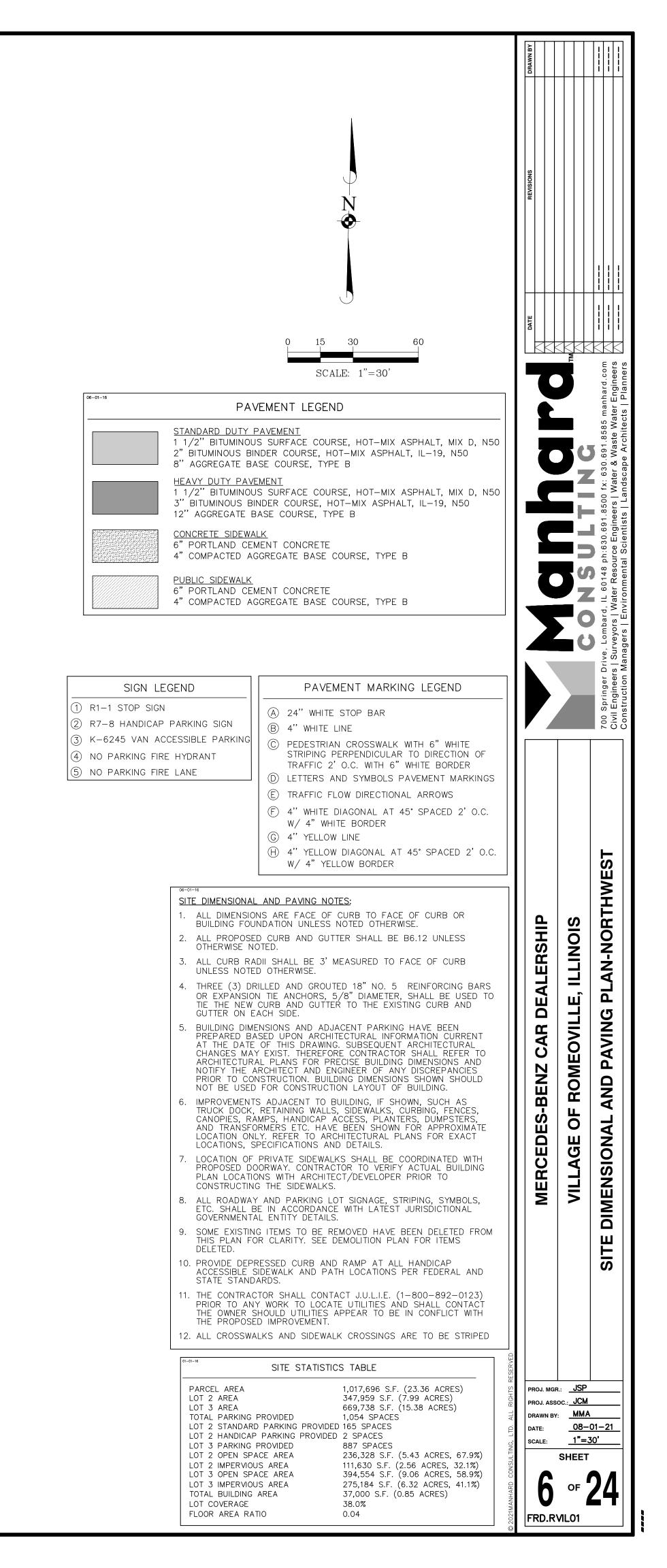


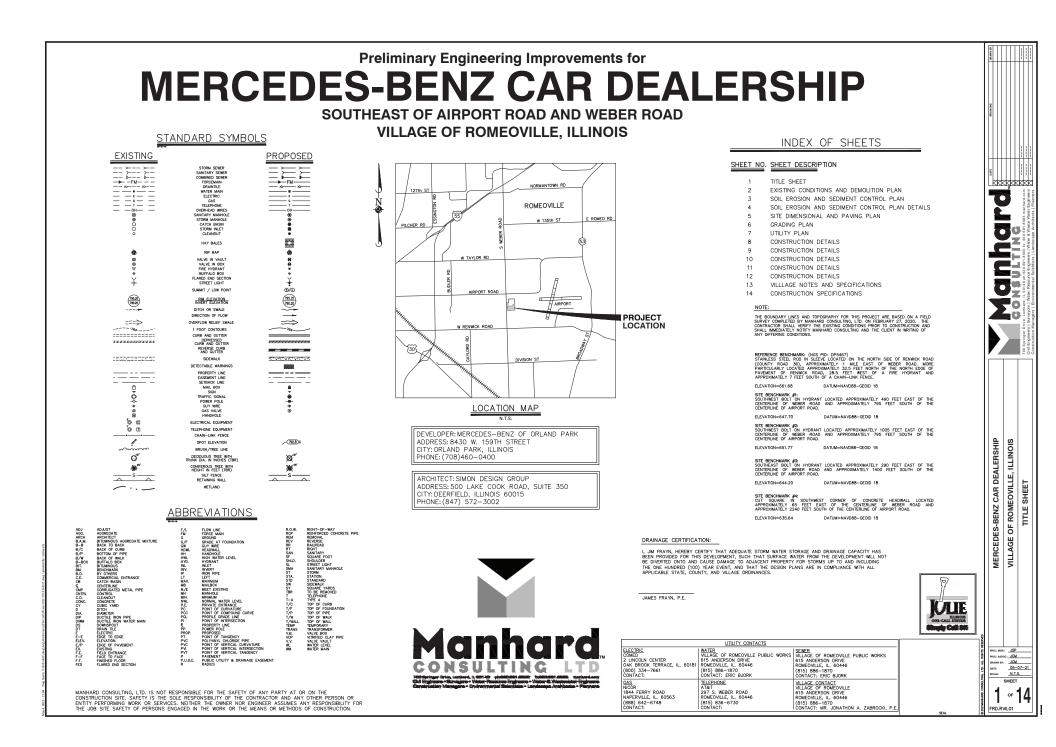
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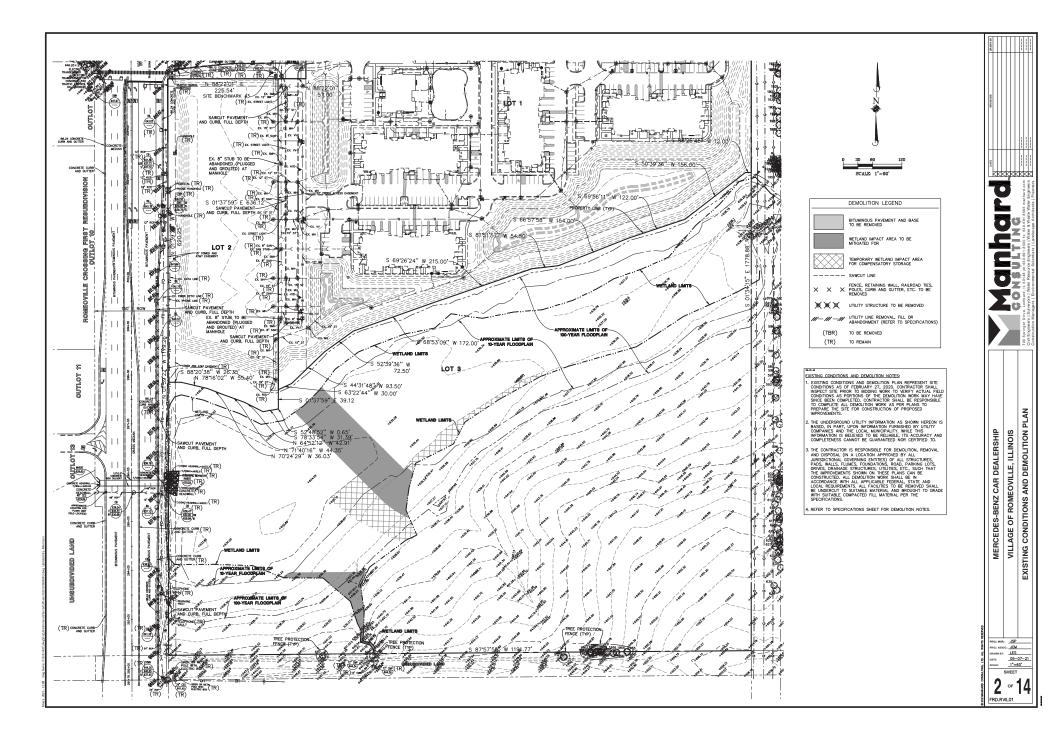


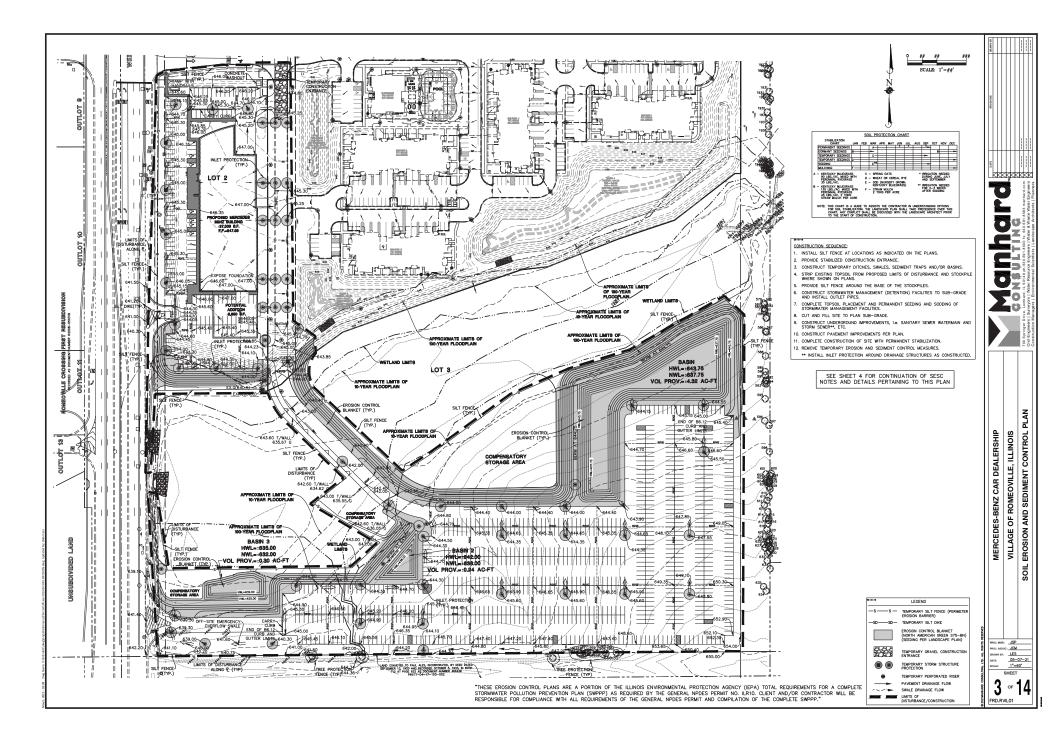
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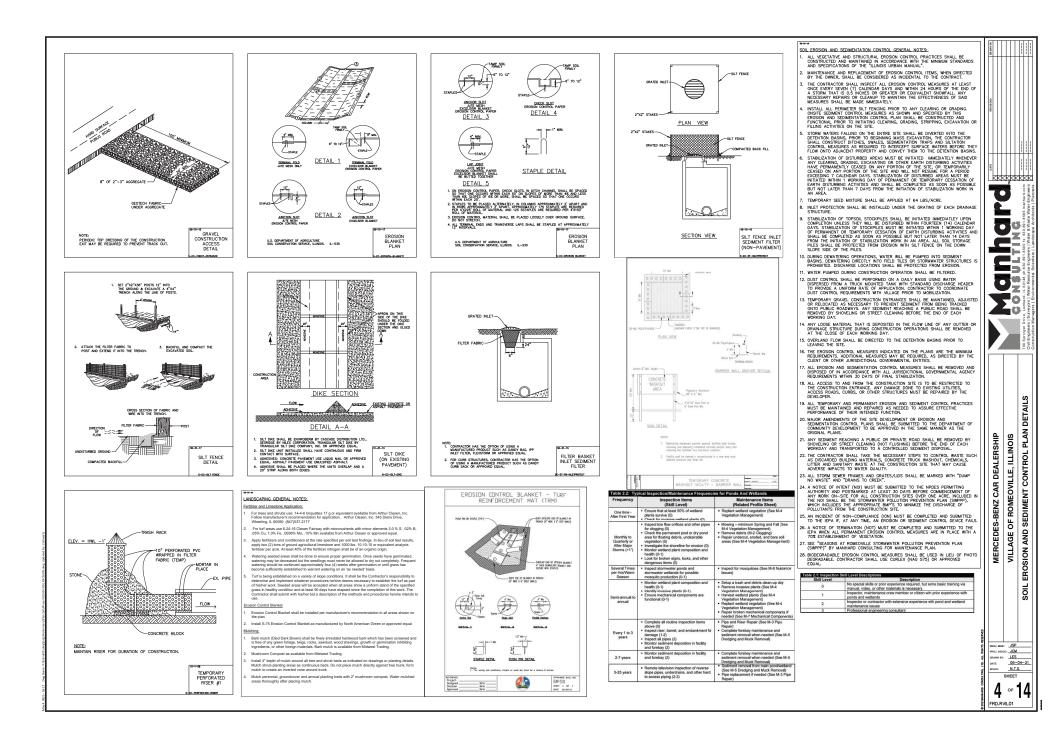


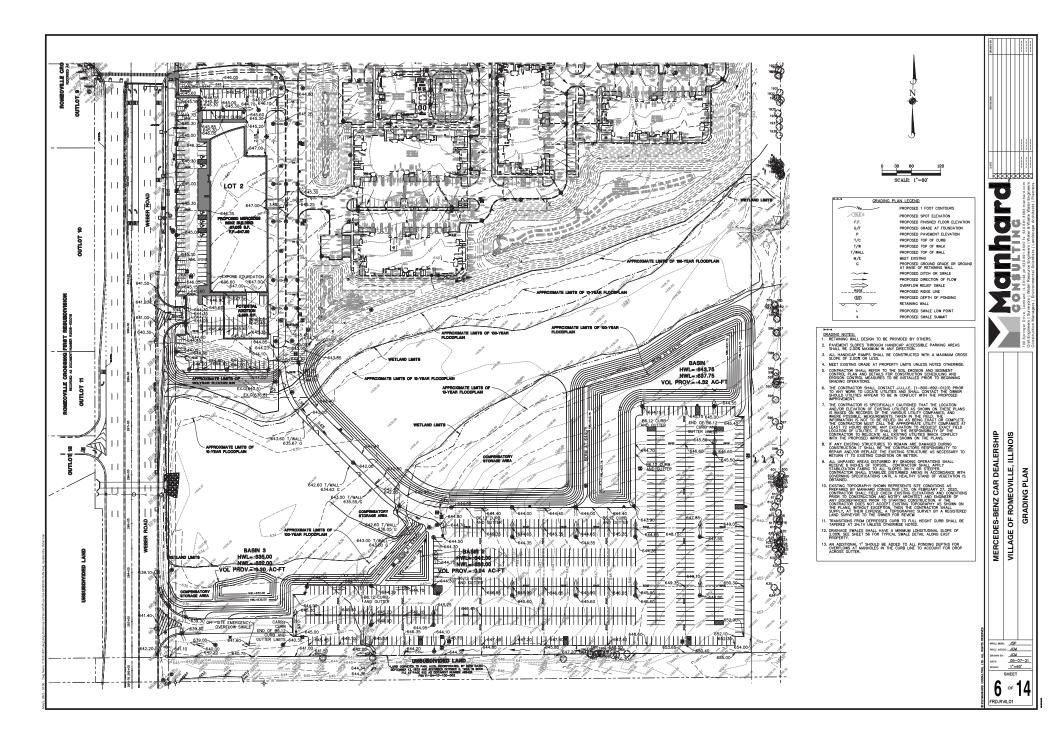


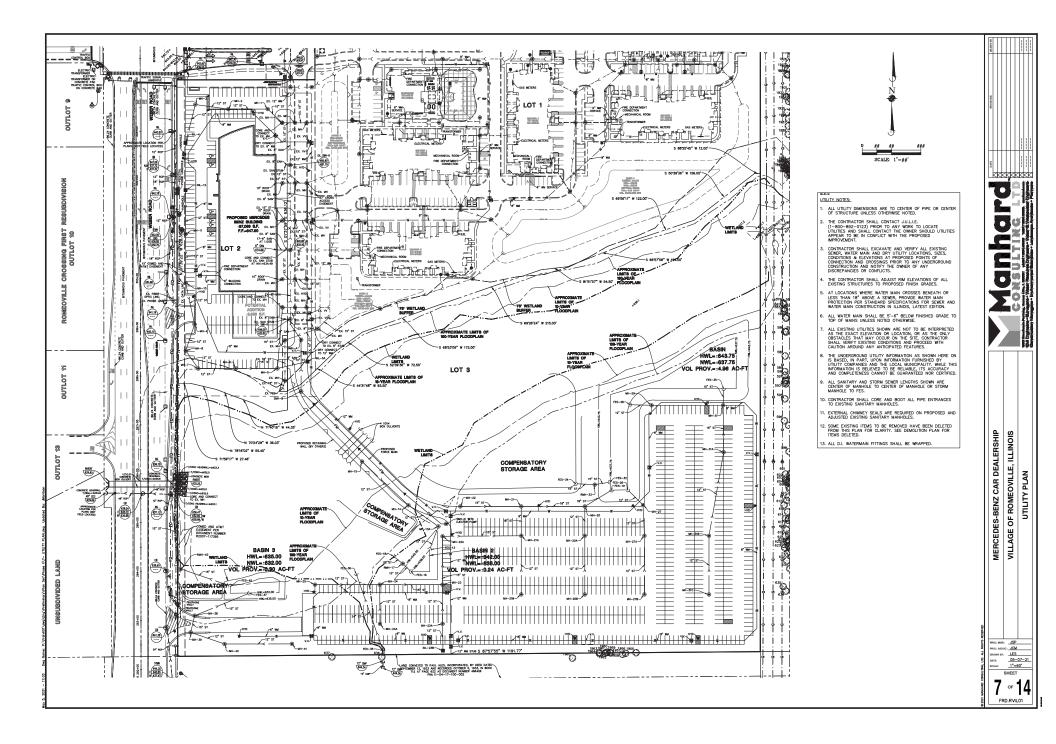


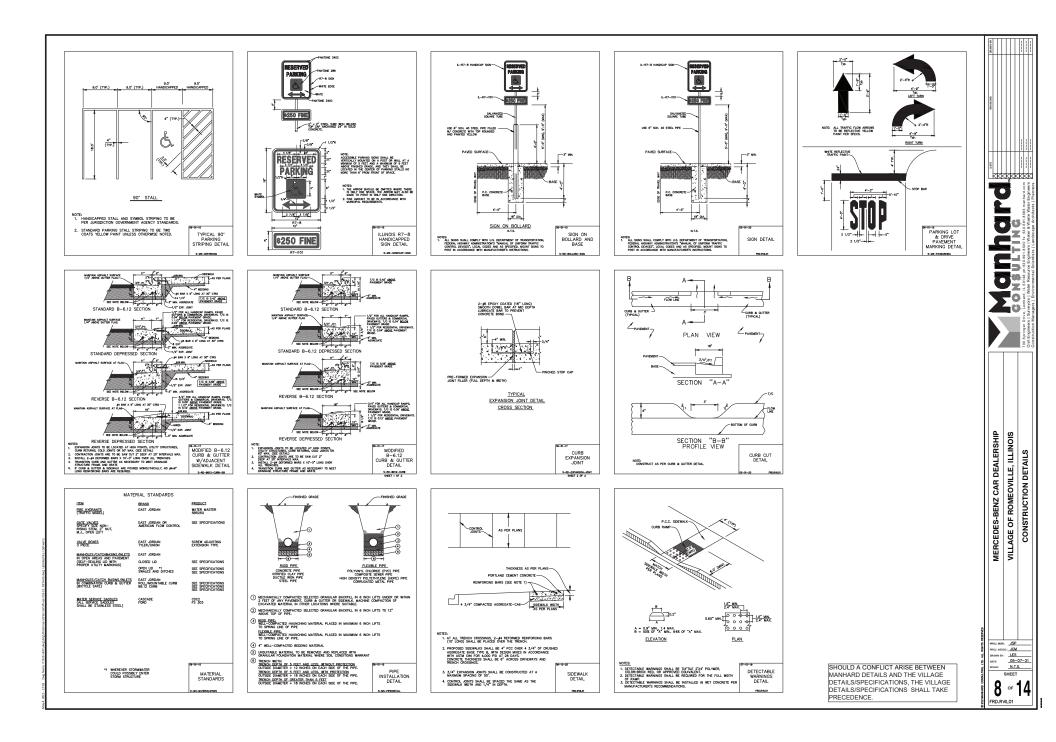


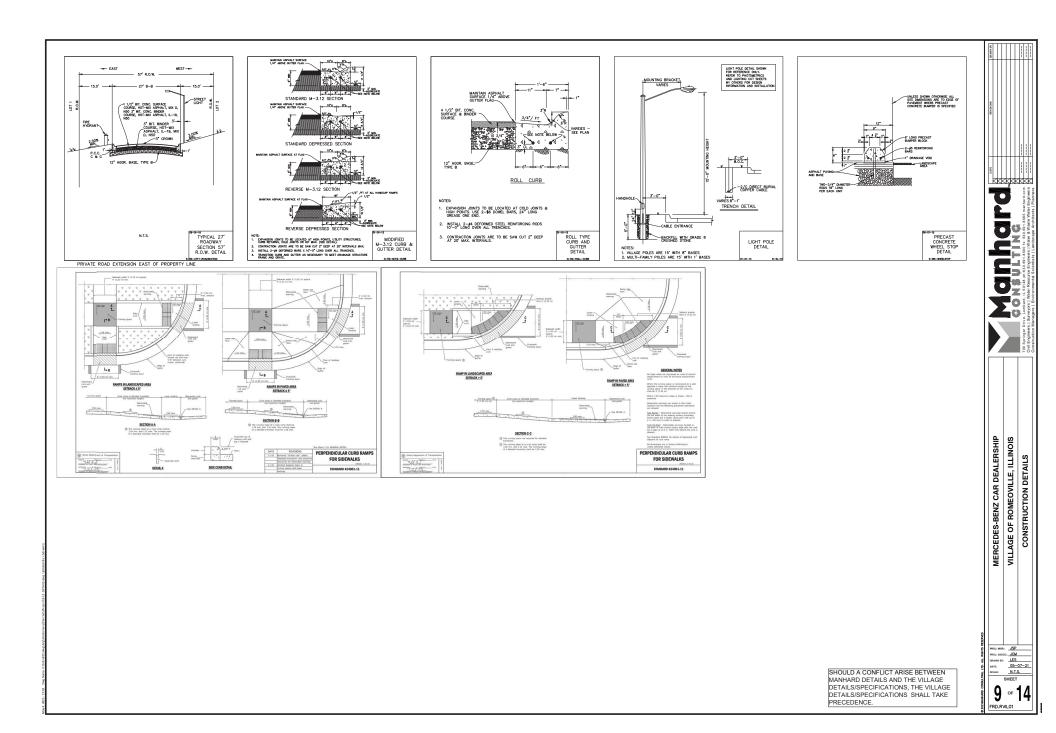


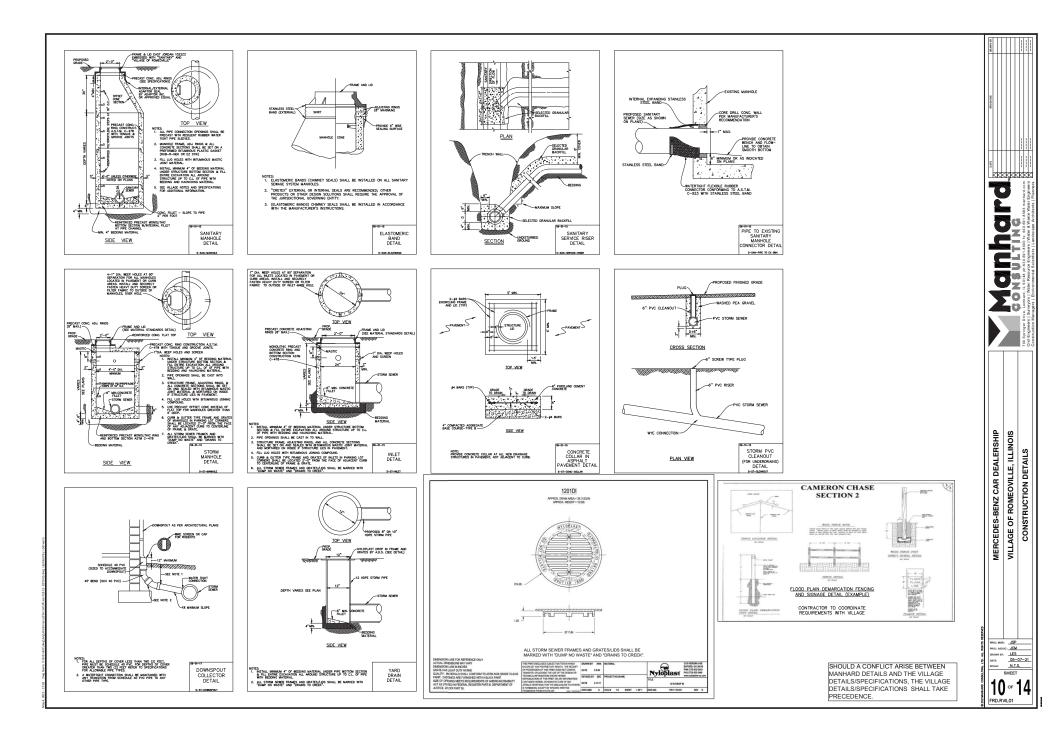


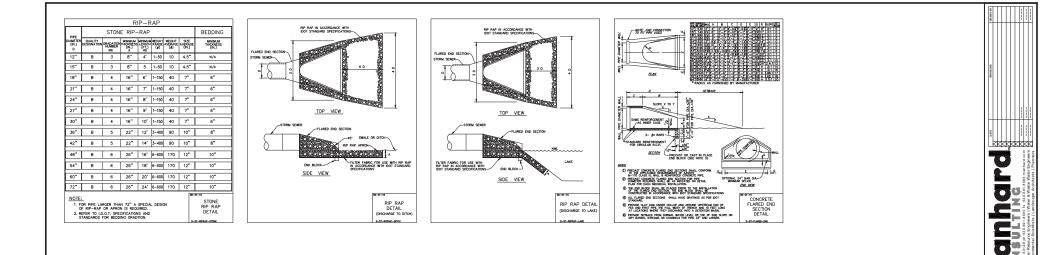


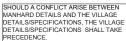










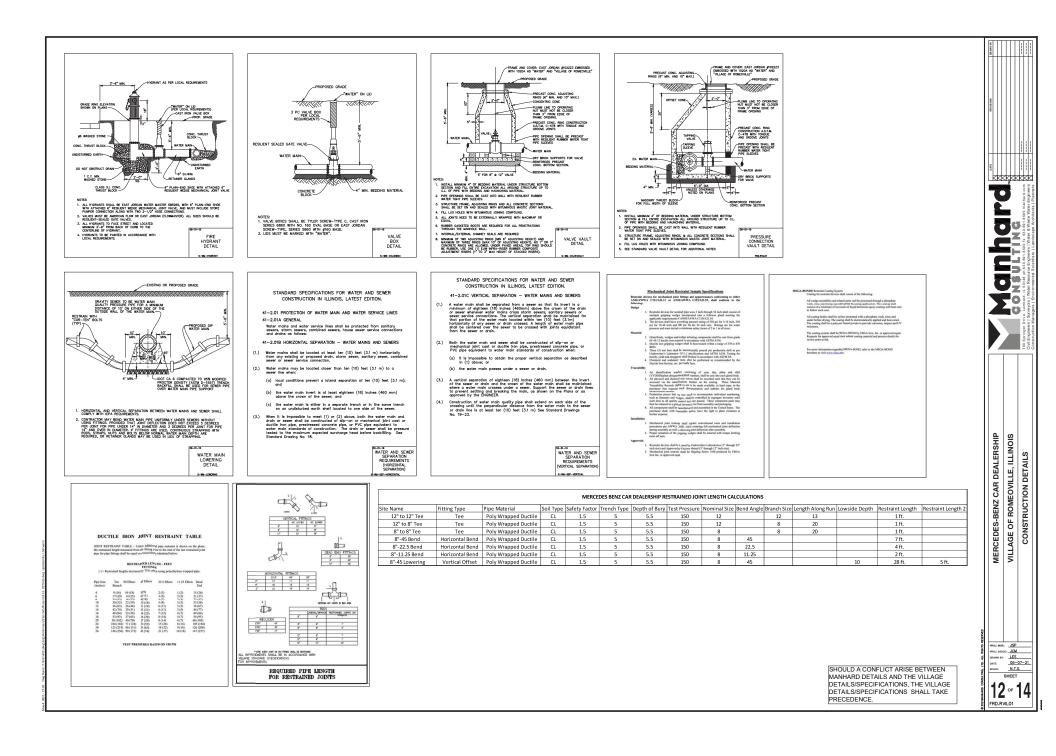


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MERCEDES-BENZ CAR DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS CONSTRUCTION DETAILS

SHEET

FRD.RVIL01



VILLAGE OF ROMEOVILLE SUPPLEMENTARY STANDARD SPECIFICATIONS

I.UNDERGROUND IMPROVEMENTS

A. GENERAL

STRUCTURE ADJUSTMENTS Minimum of two adjusting rings (Min. 6° adjusting height) and maximum of three rings (Max. 10° adjusting height). No 1° or 2° concrete rings are allowed. Under paved areas, top ring should be rubber. Use one (1) EJIW Infra-Riser rubber Composite Adjustment Risers.

MISCELLANEOUS The DeveloperContractor is required to submit all testing results (density, obtination, vacuum, pressure, etc) to the Village of Rom Department within 48 hours of any onsite leating.

B. SANITARY SEWERS AND APPURTENANCES SANITARY SEWER PIPE

Pipes must have a minimum cover depth of 5 feet. Pipes must be PVC SDR 26 when less than 15 feet deep, PVC SDR 21 when 15-20 feet deep, and PVC SDR 18 when over 20 feet deep.

MANHOLES Manholes shall conform with the following

warrows and account was to control. (1) All dening models canding, adjusted with all wells and in half be set in half reper a approval equil. Each methods contain the social prior that it also be deningly seaded with all wells and prior and account and the section of the section of the social prior that it also be deningly seaded with all wells and the section and wells. This section is all not and the Bank for Concerning Proc. Methods set for head the deningly approximation to seve a setting models for the section of the social priorities of the section of the section of the section of the concerning to ASTM C-322 (Banked Specifications for headed Concerning the Relations Concerning and the section of the Relations Concerning the ASTM C-322 (Banked Specifications for headed Concerning to ASTM C-322 (Banked Specifications for headed Concerning the Relations Concerning the ASTM C-322 (Banked Specifications for headed Concerning the ASTM C-322 (Banked Sp All manholes located in areas subject to inundation must have waterproof, bolt-down frames and lids

- Sanitary manhole form and cover shall be East Jordan 102223 emboard with Sanitary manhole form and cover shall be East Jordan 102223 emboard with Sanitary manhole form and cover shall be East Jordan 102223 emboard with Sanitary and "Vilage or wrapped with MacWrap or equal. Rubber gas/whed boots are required for the main at the manhole wall. unquel des Machines e quel Atabac gualente faine a respectivo faine anni e faine antino autil.
- FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER

comes horse-comes Association in the Come Associati

FINAL TESTING OF SANITARY SEWER MANHOLES

International Institution Annual Institution Annual Institution (Institution Institution Institutio possible) for during walks on me more sense and the sense of the sense

C. WATER MAINS AND APPURTENANCES

WATER VALVES who are necessary on a program with the second s

by VPC or represent equals: <u>VALUE NALLES</u> Value wather address controller or conformance with Section (IA) Meriodas, stat. alsone, AI values wather address and a meriod of section of the disenter. Frame and con-control of the disenter of the disenter of the disenter of the meriod water. In the disenter of the di

paved areas, top mg should be rubber. Use one (1) JUW Inter-Keer nubber Composite Adjustment Heers (1* to : VALVE BOXE Valve Boxes Water WALER) and the constructed in conformance with the standard datal. Valve boxes shall be cost iron extension scre laters "WALER" FIRE HYDRANTS

FIGE INTERVITY
A 10% hydrox and behavior as shown on the PLANE. First hydrox sharehow hereingten 5 third mode with the 1-12" 10% These muchas and shall be provide the hydrox and the hardward as shown on the PLANE. First hydrox hardward hydrox hydrox hardward hydrox hydr

TAPPING SLEEVES / PRESSURE CONNECTIONS ma are not allowed for same pipe sizes. For this type of situation, a tee must be used.

Use 2-piece ductile iron bolted sleave type with mechanical joints: (1) Tyler Union Ductile Iron MJ Tapping Sleave

Use fully ported, resilient wedge gate valves: East Jordan Flowmaster or American Flow. All pressure connections shall be contained within 5' diameter controlle valuts - no valve boxis.

ensense waves to wave been." **ECOREMNCE** Our obtainer multip wards for darkforders, The desiration constructor must call 155.085.1979 a minimum of 24-bases in advance to subsetula distribution of advance setup of the subsetulation of the subsetup of the subsetup of the subsetulation of the subsetup of the sub

- (1) Shipping and emergency papers for every job location
- (2) Proof of insurance for having and handling chlorine gas
 (3) Commercial chiver's license with Hazmat endorsement and medical card
- (3) Committation and a relation with relation with committee of registration
 (4) Hazzardous materials placard displayed on vehicle
 (6) Cylinder strapped upright in trunk
- Used on occurrent even will obtain construction be allowed to apply hank to be delorine opfields (), a ho builts, propens torstes, etc.) While the opfield is a polytowic table and the properties of the optimal is a solid builty. The to characteristic polytowic tables are also builty distributions on the solid tables) of the optimal is a solid builty. The other solids are also builty distribution on the solid tables () and the solid builty of the other solids. The other solids are built applied in the other solids are builty distributions and tables are also builty of the other solids. The other solids are builty distributions are also builty of the other solids are builty of the other solids are builty and the other solids are builty of the other solids. The other solids are builty of the other solids are builty and the other solid are builty and the other solid are builty of the other solids are builty of the other solid are builty of the other solids are builty of the other solids are builty of the other solids are builty of the other solid are builty of the other

- MISCELLANEOUS
 (1) A minimum of 48 hours prior to any water usages (i.e. flushes, fills, etc.), the contractor must call the Village of Romeoville's Water Day
 to get approval of axid usage.
- Any uncalegorised usages will result in penalties. All valves and hydrants shall be submitted to the Vilage of Romeoville Waler Departs prior to ordening. ent for written approval
- (3) The developer will be required to conduct a leak detection survey by sounding and correlating with computerized equipment every valve box, hydraet, and service to identify any leaks occurring in the system. The data must be submitted to the Village prior to acceptance of the public improvements.
- PROJ. MGR: JSP PROJ. ASSOC: JCM GRAWN BY: LES DATE: 05-07-21 U.3.0 DATE: SCALE: N.T.S. SHEET **13** • 14

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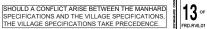
VILLLAGE NOTES AND SPECIFICATIONS

VILLAGE OF ROMEOVILLE, ILLINOIS

DEALERSHIP

MERCEDES-BENZ CAR

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MANHARD CONSULTING, LTD. STANDARD SPECIFICATIONS

GENERAL CONDITIONS and names that the use and colours of these Diago and Specifications is sufficient equilatotion for

DEFINITION OF TERMS

"CLENT" shull mean Mercedes-Benz of Orland Park, which is the person or entity with whom Manhard Consulting, Ltd. has contracted with to prepare Civil Engineering FLANS and SPECIFICATIONS.

Coll Egywang TANB and SPECIPCIDIDS. CONDERS of all manufactor Constants, LLL - Coll Engineering consulter on the adapt project. "MANS and EVERTOR COLLEGE: And manus, Coll Engineering PARS and SPECIPCIDIDS properties by the ISCNEER, which may be a just of CONTROL CONTROL CONTROL OF ADAPT AND ADAPT AND ADAPT CONTROL CONTROL

INTENT OF THE PLANS AND SPECIFICATIONS o set forth certain reg

INTERPRETATION OF PLANS AND SPECIFICATIONS

The CLIENT and/or CONTRACTOR shall promptly report any entors or ambiguities in the PLANS and SPECIFICATIONS to the ENGIN as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and his/fina on a

concend. The SCR0EER will provide the CLEDIT with such information are type negleted to show revised or additional datality of contracting. The SCR0EER will provide the CLEDIT with such information are type negleted to show revised or additional datality of contract, the I should any discongenicies or conflicts on the IF-ARS or SPECIFICATIONS discongregative provides on additional datality of the type of the ICLEDIT or the SCR0EE additional and additional to the action the weak is toget to means and the prover concentions much sitely the ICLEDIT for the SCR0EE additional additional to the action before the weak is toget to means and the prover concentions much sitely the ICLEDIT for the SCR0EE additional additional to the action before the set of the SCR0EE and the SCR0EE additional to the additional to the set of the SCR0EE and the SCR0EE additional to the set of the SCR0EE and the SCR0EE additional to the SCR0EE additional to the set of the SCR0EE and the SCR0EE additional to the set of the SCR0EE additional to the SCR0EE

GOVERNING BODIES

be completed in accordance with all requirements of any JURISDICTIONAL COVERNMENTAL ENTITY, and a ances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted betwee segments of any JURISDICTIONAL GOVERNMENTAL ENTTY, the CLIENT and the CONTRACTOR shall in the CLIENT and the CLIENT ACCOUNTS of the CLIENT and the CLIENT accounts accounts account accounts accounts accounts and the CLIENT accounts account accounts account accounts accounts accounts accounts account accounts account accounts accounts accounts accounts accounts accounts accoun ECIFICATIONS and require ENGINEER in writing.

LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

When the NAME and SPECIFALCIDE status information patients is the location of existing compared tables and stilling including later of the location of the stilling status is the location of the location of

UNSUITABLE SOILS

PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvement in. The CLENT or CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of provement according to the line and quarks share on the PLANS.

PROTECTION OF TREES

moved shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT

Characteristic and a sequence by any JURGDICTIONAL CONVERSIONTIAL DITTY all signs, exploriment, and personnel monosaux and an annual sequence and annual sequence ann

WORK AREA

DONTRACTOR, his agants and employees and their employees and all equipment, machinery and vehicles shall confine their work within the boundaries project or work area specified by the Client. The CONTRACTOR shall be solely liable for durange caused by him of his agents and employees and their met, machinery and whichics on adjuster property or areas couldsed designative work areas.

UTILITY POLES ability of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of this Iv understood that all work and costs connected with the maintanance of these utility poles, their temporary selocations, etc., shall be the It shall be the responsibility of the CON row, row or contract. It is expressly understood that all work and responsibility of the CLIENT or the CONTRACTOR.

RESTORATION a SPECIFICATIONS that clear-up and final reatoration shall be performed immediately upon completion of each phase of the work, be a Physical or when is of decided by the CLEMT so that these areas will be netioned as nearly as possible to their original condition or performance of the second second by the CLEMT so that these areas will be netioned as nearly as possible to their original conditions or performance of the second second by the CLEMT so that these areas will be netioned as nearly apposited to their original conditions or performance of the second se

CLEANING UP

R shall at all times keep the premises free from accumulations of waste material or rubbish caused by his employees or work, and at the ork he shall remove all his rubbish, tools, scaffolding and surplus materials and shall leave his work "broom clean" or its equivalent, unless

ROAD CLEANING ACTOR shall maritain roadways adjoining the project alle fixes from mud and debris at all times. If mud and/or debris is carried onto the non-entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall errors said mud and and/or debris.

Immediately remove also use SAFETY AND PROTECTION The CONTRACTOR shall be solely and completely

esponsible for the conditions of the job site, including safety of all pers WCION table samily and comparison in secondarios of two positiss, including satily of all previous and properly during of the work. This requirement shall leggl contractions and and the initiate to normal working humon. This CONTRACTOR shall comply with asses and Regulations relating to the satily of periodics of the protocol of periodics or properly from tames, hipsy, or takis and and arranging and any statement to the satily of periodics. CONTRACTOR shall are normal working having and protocol con-traction and income and such that are as all work is completed and the CONTRACTOR shall be normal working with *n*, or normal the contraction shall be and the contraction shall be added by the CONTRACTOR shall be added by and of protocol con-traction and such time as all work in a completed and the CONTRACTOR that the work is acceptable. The builts of the shall be added by the contraction shall be added by the CONTRACTOR that the work is acceptable. The builts of the shall be added by the contraction shall be added by the CONTRACTOR that the work is acceptable. The builts of the shall be added by the contraction shall be added by the the CONTRACTOR that the work is acceptable. The built be shall be added by the contraction shall be added by the the CONTRACTOR that the work is acceptable. The built be shall be added by the contraction shall be added by the the CONTRACTOR that the work is acceptable. The built be shall be added by the shall be added by the the CONTRACTOR the shall be added by the shall be added

Next interacting the fault devices and graves to behavior, devices, such as the determined in the section of th community of the second sec furnished or loaned by any part or entity, including any o if this indemnity; (3) costs for time expended by the inde-neproduction of documents and (4) consequential damag

INSURANCE

ping on basis plane, including any contractor, malantial supplex, or other settly shall obtain, (arota to commencing any work) general to ensuming sparal and langes and clasmic to properly signings, and any properly simage any anise of any work, including the means properly and sectors and the setting of the setting setting setting and setting and setting and any setting setting and setting and setting setting and setting setting and setting and setting setting and setting and setting and setting setting setting and setting setting setting setting and provide valence and setting and setting setting and any setting and any setting and any setting and setting

THRD PARTY BENEFICIARY Menhard Consulting, Ltd., the ENGINEER, is intended to be a third party beneficiary of this willing agreement and requirement

Note: These Specifications are for Northern Illinois.

DETAILED SPECIFICATIONS

* I. DEMOLITION

TRUCTOR that contrasts with respective stilly comparison prior to the removal and/or relocation of stillates. The CONTRACTOR shall constrain with the open or contently particine of work which may be performed by the USB/ Company's brane and any lease which are is to part of the uSB/ company for the the CONTRACTOR shall compare the participant for the same and anyous monoil and/or indication clubites atmaps fastures indicated to prevent, the CONTRACTOR shall provide more materialishauctures in accordance with the someoners. Using of metaline danged to be strained on the plane, all other contraction metalines hall be new. with respective stilly companies prior to the removal and/or relocation of stillies. The CONTRACTOR shall coordinate with the (vork which may be performed by the Utility Company's forces and any fees which are to be paid to the utility company for their

n occurring, all erosion cont devices are to be installed es and conduits located under preposed buildings shall be removed and properly backfilled. All utility lines and conduits located under drives, on-site r aldevalue shall be filled utils at flowable backfill and end plaged. All estating situctures shall be removed. All estating utility lines located under if be hith in place are plaged at all intruderas.

to inclusion material and a set of the set o

ACTOR is responsible for obtaining all permits required for demolition and disposal. Clean construction or Demolition Debris (CCDD) testing and certification orma must be requested by the CONTRACTOR in order to be implemented by the owner.

or success terms marked inspections by the ULA (1994), ULA (1994) and the observations of the solution. Electrical luplotions, and wavels. There should also also go also maked by the solution of the bio conditional by the CONTRACTOR with the afflected utility company. CONTRACTOR and protect the public all three with thereing, terms detects, terms and the solution of the solution and the solution of the soluti

ale water main work with the Fire Department and the JURISDICTIONAL GOVERNING EN-clion is available to the facility and alls throughout this apecific work and through all phases main shut of the with the JURISDICTIONAL GOVERNING ENTITY during construction. Any

will be the responsibility of the CONTRACTOR and no extra comp

a decounteries of a second half be exposed and sealed 3" below proposed finish grade by the CONTRACTOR in accordance with Section 520.120 (latest editor) of on Code, Department of Public Health, and all applicable local nites and regulations. CONTRACTOR is responsible for obtaining all 2MAL GOV[RMMPATL]. ENTITIES for advancedors and advancedors.

ISDCTIONAL GOVENMMENTAL ENTITIES for abandoning existing wells. 1 and geams imps encountered shall have all liquids and solids removed and disposed of by a licensed commercial haster in acco IEDNACE ENTITy regulators, and the tarks and regease targs shall then be filled with suitable materials or removed from the site as wed under any proposed building, pavement, walk, etc. or within 24" thereof shall be filled and compacted with suitable materials by the ids left by any item remo

ponable for the disconnection of utility services to the existing buildings prior to demolition of the buildings. found within existing structures shall be removed from the site and disposed of of-site by the CONTRACTOR CONTRACTOR shall b

HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS britostal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois action 41-2.01A and 41-2.01B and Standard Drawing 18, 19, 20, 21, 22, 23 and 24.

SELECTED GRANULAR BACKFILL

STRUCTURE ADJUSTMENT

* SANITARY SEWER PIPE

Sanitary sewer pipe including building se

Sanitary sewers shall include bedding and backfilling.

FOUNDATION, BEDDING AND HAUNCHING

* POOL DESIGN

* MANHOLES

TESTING

SERVICES

DROP MANHOLE CONNECTIONS

TELEVISION INSPECTION

MISCELLANEOUS

WATER VALVES All valves shall be real with JURISDICTIONAL mains 16" diameter an

VALVE VAULTS

VALVE BOXES

FIRE HYDRANTS

DISINFECTION

PRESSURE TEST

TRACER WIRE

* STORM SEWER PIPE

Allowable leakage, test p

* WATER MAIN PIPE (3" AND LARGER) Water main pipe shall conform to the following

MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

* AUGER/BORING AND CASING - INTENTIONALLY ONITTED

-the finished areado as chosen on DI AND

B. SANITARY SEWERS AND APPURTENANCES

RISERS Risers shall be constructed in locations as shown on the PLANS and according to the detail.

SANITARY SEWER FORCE MAIN - INTENTIONALLY ONITTED

connected to the sanity

* TAP, STOPS AND BOX - INTENTIONALLY OMITTED

PRESSURE CONNECTION TO EXISTING WATER MAIN

DRY CONNECTION TO EXISTING WATER MAIN

FOUNDATION, BEDDING AND HAUNCHING

* SMALL WATER SERVICES (2" DIAMETER OR LESS) - INTENTIONALLY OMITTED

* POLYETHYLENE ENCASEMENT (FOR DUCTILE IRON WATER MAIN ONLY)

D. STORM SEWERS AND APPURTENANCES

All watermains must be wrapped in V-BIO ™ polyethylene using Method A.

C. WATER MAINS AND APPURTENANCES

* AUGER (OPEN BORE) - INTENTIONALLY OMITTED

Selected Cranular Backfill shall be required for all sever and water main trenches lying under existing or proposed streets, driveways, parking lot 24" benedi, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards.

More than the second se

Thrid-party Consultant is responsible for the design of the pool and deck to the edge of the deck. The size, material, and invert elevation of all pipe leaving teck area shall be indicated with top of table elevations at the edge of the deck and provided to ENGINEER. ENGINEER that is responsible for providen single information on PLANS for underground utilises core cachies of the pool and deck area. Third-Party Consultant terms shall holdcate all other design information on PLANS for underground utilises core cachies of the pool and deck area. Third-Party Consultant terms shall holdcate all other design.

(1) Petyvinyl Chtoride (PVC) Sewer Pipe shall conform to ASTM D3054 (4-inch thru 15-inch) or ASTM F879 (18-inch thru 48-inch) minimum SDR 28 with Bettilte electromeric seal gasket gasketed joints conforming to ASTM D3212 and F477. See Village Notes and Specifications for additional material information.

Notection and a combined of is combined with Baddy III M Methods, etc., allow, "To common have and rightmen selected and the somethod of the processing of the somethod of

Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown of

are shall be all totaled and totaled for deflection in accordance with the requirements of Benchos 11.1.2.1.TESTRAD AND INSPECTION C. DC SANTARY SEVERST's of the Santand Specifications for Water and Searce Construction in Intuine of the JURISOLICOMM. QO chever is more restriction. In addison, a televised inspection of the completed sanitary severes shall be conducted and a copy of the vid-mineted to the JURISOLICOMM. QOLYMANN ENTITY.

All sentary marholes are to be tested for water tighness in accordance with ASTM CHBB "Standard Practice for Hittration and Extilitation Acceptance Trading of Installard Precisit Conceste Pipe Sewer Lines", or ASTM C1344 "Standard Test Method for Conceste Sewer Matholes by the Negative Pressure Vorumm) Test".

A wye branch or "tee" and sanitary service line, properly plagged and sealed shall be constructed as shown on the PLANS. The ends of all services shall be marked with a 4"s4" cost extending 36" above grade and painted red. The CONTRACTOR shall keep accurate records of all Wive or Tee locations as

sanholes shall be constructed according to the PLANS and the detail.

Join completion of construction is alleviation impection of the samitary asseer system shall be preformed on all portions of the saver's frequined by the URBID/CIDAUM COVERING DIVITY Violatolese and within report of all invision impections what he provided is the CLEMT. The form of report and pand from diff the subscription shall be doneed by all INSIGIC/DIVIGUE/ONERDE DIVITY. Not server and apportaneous abile the cameer prior to impection and tasking required by this section.

All defeat and corrective work required as the result of takinkion inspection shall be performed by the COMTRACTOR without defaulty. All dips, cracits, lasks, improperly sealed joints and departures from approved gradees and alignment shall be required by removing and replacing the involved sectors of pipe. Upon completion thereof. The severe shall be related and auxiliarity interfair inspection made as may appear terminated by the COMT.

Dustle iron pipe shall be per ANSIAWWA C151/A21.51, Thickness Class 52, minimum 150 psi working pressure, cement lined in acco ANSIAWWA C164/A21.4, with "push on" type joints.(2)

Megaligs are required to brace all tess, plugs, caps, and bends of 11 1/4 degree deflection or greater. Minimum cover for all water mains, including a shall be 5-6" from the finished grade. Water main shall include bedding and bacidilling.

ted in conformance with Section III& Manholes, etc. above

nstallation shall be in accordance with ANSI/AWWA C150/AC1.10 or Compact ductle iron) or ANSI/AWWA C055 (PVC). All water main shall have mechanical joint cast iron ductile iron fittings in accordance with ANSI/AWWA C150/A21.10 or compact ductle iron fittings in accordance with ANSI/AWWA C150/A21.53 with 250 pair and/on manage.

he realisent wedge gate valves conforming to the latest revision of ANSI/AWWA C515, with a nated working pressure of 200 pai in accordant IDINAL GOVERNING ENTITY requirements, except that batesity valves conforming to ANSI/AWWA C504 shall be constructed on all wate their and larger. Valves shall be non-rising adam and shall close by training doctaries. Valves marks the American Fiber or Erail Jordan

sted in conformance with the standard detail. Valve boxes shall be cast iron extension screw type having lids impri

The per JURISDICTIONAL GOVERNING ENTITY requirements. All fire hydranta shall be located as shown on the PLANS and shall be oner acceptable to the JURISDICTIONAL GOVERNING ENTITY after installation and shall be adjusted to final grade.

Disinfections shall meet all of the requirements of the State of Ilincis, Environmental Protection Agency, Public Water Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples collected at sampling tags on at least two consecutive days following disinfection of the mains and copies of the said report submitted to the JURISDICTIONAL COVERNNE CHITTy and the CLENT.

ure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY.

Incomposition of examination patter presence on existing water main at all times. Existing water main that be loaded and material exceedual, and the DORTMACCID data that composition in the advance of the existing water reash table to deter distributed prior to intelling the targing less features of the existing water terms in table to deter distributed prior to intelling the targing less features of the existing water reash table to deter distributed prior to intelling the targing less features that are determined with a format installed water to other determined with the other distributed prior to intelling the targing less features that are determined with the determined water main that include indicides targing water main that include includes the determined with the other determined water main that include includes the determined with the other determined water main that include includes the determined water main that include includes the determined water main that include includes the determined with the other determined water main that include includes the determined water main that include includes the determined with the other determined water main that include includes the determined with the determined water main that include includes the determined with the determined wit

A dry connection to existing water main shall include a connection to an existing water main stub where shown on the PLANS. The CONTRACTOR shall obtain approval of the JURISDICTIONAL GOVERNING ENTITY to shut down any main. Including submittel of a schedule of the time of shut off and the time

area ammente or most fine annunate in ammentance with the above standards and placed as shown or

valves when installing PVC pipe exceeds 1,007, tracer wire stations will be required for current induction. Tracer wire stations in grass areas will racing Whe Stations or approved equal. In paved areas, they will be Valvco Tracer Wire Access Box for H2O loading or approved equal. a Rho Trives Pile Tracing Wire States or approved equal: h proved areas, how all be Vivio Tracer Wie Access Boch HCD bandgo or approved equal. or gen of centrationary and pPC/piles, a contrast, maletad, U gauge coper wire sublich for for the hard hard hard or of a pile pile provide to all canding biologic contractions. This was had hard more any value with or materian safe Instatement with an exposed lead of a pile pile provide canding biologic contractions. This was had hard more any value with or materian safe Instatement with an exposed lead of a latest 12: A selectically some and application contrast, malk latest contrast, where constructions the diversity of diversity of the instatement are safed to 217 h11 PPC candid statement and access contrast, T1 biologic sources (T1 totation 1990; escharded T1) or materials stated toppil contrast, T1 totation 1990; escharded to 12 and escharded to 12 and escharded T1) or materials and the other series (T1 totation 1990; escharded totation and escharded totation and escharded T1) or materials and the other series (T1 totation 1990; escharded totation and escharded T1) or the other state totation series (T1 totation 1990; escharded totation and escharded T1) or the other state totation series (T1 totation 1990; escharded totation and escharded T1) or the state 1990; escharded T1] or the totation state series (T1 totation 1990; escharded totation 1990; escharded T1) or the totation state series (T1 totation 1990; escharded totation 1990; escharded T1) or the totation 1990; escharded T1] or the tother 1990; escharded T1] or the totation 1990; e

Storm server pipe shall conform to the following

Storm sewer shall include bedding and trench backfill.

Manholes, Inlets and Catch Basins shall be constructed in confo

MANHOLES, INLETS & CATCH BASINS

FOUNDATION, BEDDING AND HAUNCHING

UNDERDRAINS - INTENTIONALLY OMITTED

CONNECTION FOR STORM SERVICE TO STORM MAIN

FLARED END SECTION

MISCELLANEOUS

STANDARDS

PROOF ROLL

CONCRETE PAVEMENTS

SIDEWALKS

* CURB AND GUTTER

FRAME ADJUSTMENTS

QUALITY CONTROL

PAVEMENT MARKING - PAINT

rk shall be con

SRADE PREPARATION

AGGREGATE BASE COURSE TYPE 'B'

* HOT-NIX ASPHALT BASE COURSE - INTENTIONALLY OMITTED

CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

* PAVEMENT MARKING - THERMOPLASTIC - INTENTIONALLY ONITTED

HOT-MIX ASPHALT BINDER AND SURFACE COURSE

Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation. Joints must be flexible gasket o-rings per ASTM CS91, ASTM C433, and ASTM C1610.

Polywhyl Chorde (PVC) Piper ASTM D3054 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 38-inch), rated SDR 35, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall be fliotible elastomeric seals conforming to ASTM D3212.

High Density Polyethylene Pipe (HDPE) Smooth Interior, AASHTO Designation M252 and M204, maximum diameter of 48 inches. Pipe jointa and fittings shall be watertight gasketed joints. No band seals will be allowed. (Only permitted with Municipality Approval and/or when specifically

Tareet and sections shall be pre-cast reinforced concrete famed and section with an end block cast separate as per the litenia Department of Transport Standard 54201 and shall be installed where shown on the PLANS. All famed and sectors for some swers 12" in disestant and larger shall be insta graving per Edmanded 55211 and/or a reliabed on the PLANS. Work shall include we disclos.

All existing field drainage tile or storm servers encountered or damaged during construction shall either be reatored to their original condition, properly nercoled and/or connected to the storm server system.

Votenteen into a visit of earlier to a visit of earlier meet mains should be made with manufactured tees when available. Availability of manufactured tees function of the action saveer material and pipe diameter size of the service saver and main." If manufactured tees are not maximally available, convent should be made in according and the service saver and mains. The simulactured tees are not maximality available, convent should be made in according and the service saver and mains. The simulactured tees are not maximality available, convent should be made in according and the service saver contracted using non-shrinking good for the visid beamse pipes service savers hald be call to show the mains and of the savers mains not obtained the source savers and the savers saver is savers hald be call to show the mains and of the savers mains not obtained the savers the saver savers and the savers and the savers mains not obtained the savers mains not obtained the savers the savers savers and the savers the savers and the savers mains not obtained the savers the savers savers and the savers savers and the savers mains not obtained the savers mains after the mains the savers savers and the savers savers and the savers mains not obtained the main the mains of the note in botained in the savers savers savers hald be considered and the savers mains not obtained the mains the mains of the savers the mains obtained the savers mains and the savers and the savers the savers the savers the savers savers and the savers mains and the savers mains not obtained the the mains the mains obtained the savers mains the savers the save

Transportation, State of bioxs, taske of biox data on the service of the service

Automatication
Inter Control (Control III) the subgrade with either a 2-with truck tasked to 27,000 lbs. Or a 3-with truck tasked to 45,000 bs. or as specified
URESDCTIONAL GOVERNMO ENTITY. The CLEENT and JAREDOCTIONAL GOVERNMO ENTITY shall caleave and approve the proof inling of the
subgrade and the basic some. Proof integrit between a lab a a maximum district of 11 of the subgrade and average and 15 of the basic some. The subsection
of the subgrade and the basic some hord integrit between the lab and entitive distribution of 11 of the subgrade and the lab account has the lab of the distribution of 11 of the subgrade and 15 of the same subfrace of 12 of the subgrade and 15 of the lab occurs. The above crit
distribution of the lab occurs has the lab ord of the subgrade of 12 of the subgrade of 15 of the subgrade of the subgrade of 15 of the subgr

Pavement subgrade material shall not be removed, placed or disturbed after proof roll testing has been completed prior to the pavement construction. Additional testing will be required if the pavement subgrade is disturbed and/or material is removed from or placed on the pavement subgrade after proof

tion of the construction of the constructed to the compacted trictiones as shown on the PLANS. The base course shall be cleaned and primed in laren with the JURISDICTIONAL COVERNIC DISTITY. The subset course shall be ploced that the base and courses shall be cleaned and primed in to a divided by the CPL States applying the antice course, the short course as fails the coupling dividential diprimed in CPL CoVERNIC DISTING PARTIES and the course of the short course, the JURISDICTIONAL COVERNMED DISTING was apply and the course of the course of the course of the course of the course, the JURISDICTIONAL COVERNMED DISTING and the course the distinger assessments on the course of the course of the course of the COVERD AND COVERNMED DISTING and the distinger assessments on the course of the COVERD AND COVERD AND COVERNMED DISTING and the distinger assessments on the course of the COVERD AND COVER AND COVERD AND COVERD AND COVERD AND COVERD AND COVERD AND COVER AND COVER AND COVERD AND COVERD AND COVER AND COVER

nts shall be constructed in accordance with American Concrete Institute Standard ACI330R-08 and as shown on the PLANS.

Stabs and driveway aprons shall be constructed with 6" x 6" - W1.4 x W1.4 welded wire fabric positioned on steel chair supports. Placing fabric during the constete pouring operation will not be allowed.

A contract programmer and a some and a some the concrete has cored and hardward sufficiently to permit saving without excessive reaving, but no later that eight hours with the concrete has been ploted. All plots hand to a some to a some equation 11.2 of the provinent thehouse before uncontrolled trinking CONTRACTOR that has some of ploted control once orderance and theight exolution to technology procession. The

The CONTRACTOR is responsible to guard fresh concrete until it sets and hardens sufficiently to prevent people from writing, walking, riding bicycles or otherwise permanently marking, defacing or causing depressions of any type in the concrete. Any concrete so marked will be removed and replaced by the

The CONTRACTOR shall protect the pavement against all traffic, including that of their own employees or other workers, until text specimens have attained the specified strength.

Concrete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be thickened to a minimum of 6° at all driveways All sidewalks shall be IDOT Class SI concrete, on aggregate base as shown on the detail. A ½° expansion joint shall be provided when meeting existing sidewants.

The CMR-CMR and the set of the CMR and CMR-CMR and CMR and CM

The CONTRACTOR shall famiah and apply painted marking lines, latters & symbols of the patterns, sizes and colors where shown on the PLANS. Paint perversent marking shall be applied in accordance with the IDOT Standard Specifications.

Temporary summarity markings may be required for occupancy if only 1st IB of asphalt is installed. The CONTRACTOR shall furnish and apply temporary stipping including all necessary painted marking (res., Isters & symbols of the patterns, sizes and colors where shown on the PLANS to obtain occupancy incidental to the contract. In addition to the Timpi Payment Marking successful contraction of all done between the installation.

The CONTRACTOR shall provide all testing necessary to ensure improvements are in accordance with the project specifications and provide testing inversentation that specifications were met

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD

SPECIFICATIONS AND THE VILLAGE SPECIFICATIONS, THE VILLAGE SPECIFICATIONS TAKE PRECEDENCE

In concernment to a supportant for making that adjustments and the adding on a bitaminous market, joining compound and a cadings loaded in the of commands what has expensionly for marking that adjustments and the adding, adjustment of the hard to be hardened or behavior. If makes the support of the or structures immediately upon completion of the gradient the underground constants. This Contrador shall also be responsible for classing all of with substructures immediately upon completion of the gradient data. The support of the support

Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb a contraction and expansion joints shall be constructed as per the detail. Three (3) efficied and grouted 15% No. 5 neinforcing bars or expandiantee, shall be used to fis the new out bein dytter to the availing curb and shale.

Trucks or heavy equipment shall not travel on any pavement subgrade after final testing prior to pavement construction

leted in accordance with the applicable sections of the Standard Specifications for Road and Brido

spregate Base Course Type B shall be limited to CA-8 or CA-10 gradation. Aggregate base courses shall be proof rolled as outlined below.

Footing drains shall be connected to sump pumps or discharged directly into storm servers. Footing drains or drainage like shall not be connected to the sentiary server.

area annuanate or moist fine annuanate in accordance with the abrea standards and

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DEALERSHIP **ROMEOVILLE, ILLINOIS** SPECIFICATIONS

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MERCEDES-BENZ

CONSTRUCTION

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PROJ. MGR.: JSP PROJ. ASSOC.: JCM DRAWN BY: LES

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is grafting per Shinthet 94:211 merce an examination Stress (in consisting of pieces of "A" quality store 4" to 9" in diameter shall be furnished and installed in accordance with IOOT Specifi Stores (in go consisting of pieces of "A" quality store 4" to 9" in diameter shall be furnished and installed in accordance with IOOT Specifi piece where stores on the pieces, to a minimum trickness of 12" and a with as indicated on the piece. Broken concrete or concrete arrangeballe.

The Village requires submission of recorded video inspections of all public storm sewers.

IV. ROADWAY AND PARKING LOT IMPROVEMENTS

Precast less, bends, and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY.

with these devices any advances of the second se

vanue maximum. sisting irrigation system in the areas of proposed improvements. The contractor shall cap the existing irrigation If continue to function property. the facility operations. The CONTRACTOR shall coordinate with the parking lot shall be completed in

II.EARTHWORK

STANDARDS

his work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Depar samportation, State of Illinois, latest edition except as modified below. SOIL BORING DATA Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatver purpose the CONTRACTOR chooses to waited of term. The DRIMEER makes on presentation or warrarly regarding the runneh, coation, spacing or depth for boring taken, nor of the accuracy or reliability of the

Information given in the results hered. Unter, the INCIDER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than information. Whither does the INCIDERER assume responsibility for variations of soil and groundwater at location batewane horings. The CONTRACTOR is sequired to make its non horings, explorations and obstrainties of advectment of groundwater condition.

* EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTINUE constraints the any methods durations, againstitute or cross seeking the second second

CLEARING, GRUBBING AND TREE REMO

amps removed where designated on the PLANS. Trees designated to remain shall be

TOPSOIL STRIPPING

on, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pevermenta areas, and other a the work "Trivial stripped shall be placed in stockpiles in locations as designated by the CLIENT. TOPSOIL RESPREAD

dire parking tot improvements and installation of underground utilities a minimum of six inches (6°) of lopsoil shall be respread ave been disturbed by santhwork construction, except building parts and other designated areas, which shall be kept free from basin and naturalized planting areas will require wighteen inches (18°) of toppoil.

SEEDING respread, the CONTRACTOR shall apply seed and fertilizer to all respread areas in accordance with IDOT standards or as maximum and snachfications provided by the CLIENT.

SODDING soil respread, the CONTRACTOR shall install sod to all areas designated on the plans or ais designated on the la field by the CLIENT.

* EXCAVATION AND EMBANKMENT

mpletion of topsoil stripping, all exce ation and embenkments shall be completed as shown on the PLANS. All suitable excavated materials serv) and compacted in the embankment areas. The CONTRACTOR shall include all developing. temp Specifically included in the scope of Excavation and Embankmenta is grading and shaping of all cut or fill areas including swake and sliches; handling of sever spoit, etc., and all work required to provide positive dashage at the end of each working day and upon completion of a section.

same sport, etc., une ai work represe to provise posses statisting a rin work or ware to vision strong any and upon companion a second. The CONTRACTOR ball as responsible for the execution of all subsets of the second resolution or filling of the statistical ball and the second resolution of the sign of the statistical ball and the second resolution or the strong the statistical ball and the second resolution or the strong th

		Compaction			Minimum Percent Compaction			Required Moleture Content		
	Soll Type	Standard	Depth	Building Pade	Pavement	Landscape	Building Pade	Pavement	Landscape	
	Granular	ASTM D 1557	Full Depth	95%	90%	80%	Min. +2% opt	opt to +2%	as directed	
	Cohesive (lean day)	ASTM D 1557	0' to 3'	95%	95N	85%	-1% to +2% opt	opt to +2%	as directed	
	Cohesive (lean day)	ASTM D 698	0' to 3'	98%	98%	85%	-1% to +2% opt	opt to +2%	as directed	
	Cohesive (fat clay)	ASTM D 698	minus 2	95%	95N	85%	Min. +2% opt	opt to +2%	as directed	

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be nation: A solis testing firm employed by the CLIENT shall determine which solis are unsuitable. Matarials in their natural state being defined as unsuitable that would be suitable material for control of the solitable material of material or haded from the site. atooses of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer:

Any soil whose optimum moisture content exceeds 25%.

Any soil whose silt content exceeds 60% by weight. Any soil whose silt content exceeds 60% by weight. Any soil whose maximum density is less than 100 pounds per cubi

5. Any soil containing deleterious, or hazardous material AASHTO T-194, organic content greater than 8.0%.

completion of excavation and shaping of the water retention areas intended to maintain a permanent pool of water, all silt seams and gra shall be enroved to a minimum depth of three feet below the subgrade and replaced with an impermeable city including adjacent to and under server inlets and outles. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes empetion therewise such that the lakes will maintain the proposed normal water level and that lakelage does not exceed 3/ inch per week.

valued to the lines and grades indicated on the PLANS. All suitable materials excavated from the diches shall be used in CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the RISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in weeked gravel or open storm sewer have arrapped with failing; the CONTRACTOR shall install the same.

only wrapped with latin; the CONTRACTOR shall stall the same. Voting excendion and enabarismet, gradem by ta adjusted starkers an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the LIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise LLENT in diverse that the earthwork with rotabarance. Utimately however, the CONTRACTOR staff to eary impoort execution of material to active a sale saleways that the earthwork with rotabarance. Utimately however, the CONTRACTOR staff to eary impoort execution of material to active a sale saleways that the earthwork with rotabarance.

* RETAINING WALLS an 3' shall be signed and sealed by a State of Illinois Structural Engineers. Appropriate safety protection All Retaining Walls greater the

* EROSION CONTROL

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil E Sedimentation Control ordinances and the PLANS. SWPPP monitoring (if required) shall be administered by CONTRACTOR.

UNDERCUTTING DURING EARTHWORK If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the submarke does not made the standards set forth above. The CLIENT may require underunities

MISCELLANEOUS CONTRACT ITEMS

uned at the CLIENT's option, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERP

(1) GEOTEXTILE FABRIC (1) <u>INSULATION CONTRACTORY</u> (2) Controll fail to approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by th JURISDICTONAL GOVERNMO ENTITY where proper compaction of embankments over existing soft softs is not possible. Generating fails the mathering approximations of and shall be installed in according with the above stinulation.

(2) EROSION CONTROL BLANKET

in control blanket or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as requised by the SIDITIONAL GOVERNING ENTITY for the stabilization of disturbed areas. Erosion control blanket shall meet the material specifications of and instability in accordinace with the show standards, the libric librah material and/or the databilits shown on the PLANS.

nts shall be constructed and tested in accordance with the Standard Specifications for Water and Sever Construct for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition. In the event of co

(3) DEWATERING ond a 3" pump capacity by the contractor is excluded. All dewatering prior to this limit is considered incidental to the contract

III.UNDERGROUND IMPROVEMENTS

A. GENERAL STANDARDS

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