

EMORY MEDICAL CENTER

WINSBERG, INC.

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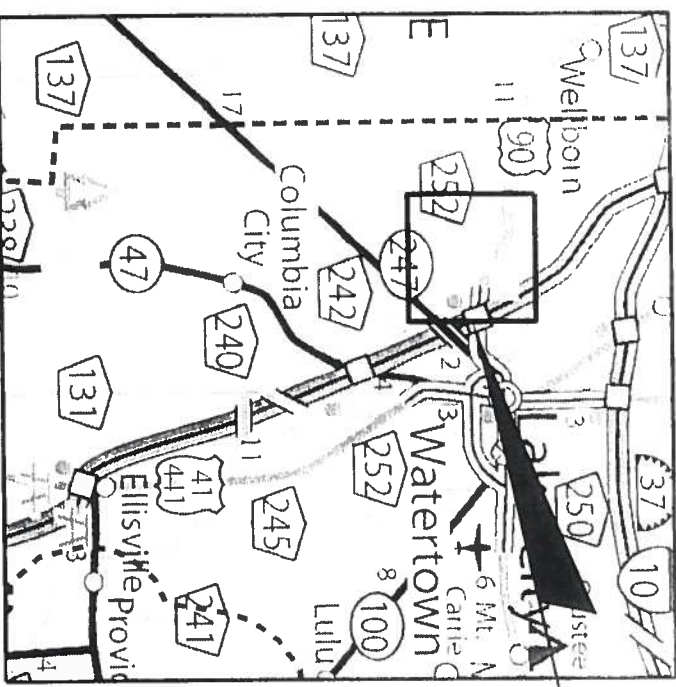
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DEVELOPER
Emory Medical Corp.
351 NE Franken St. #1125
Lake City, FL 32025

LOCATION MAP



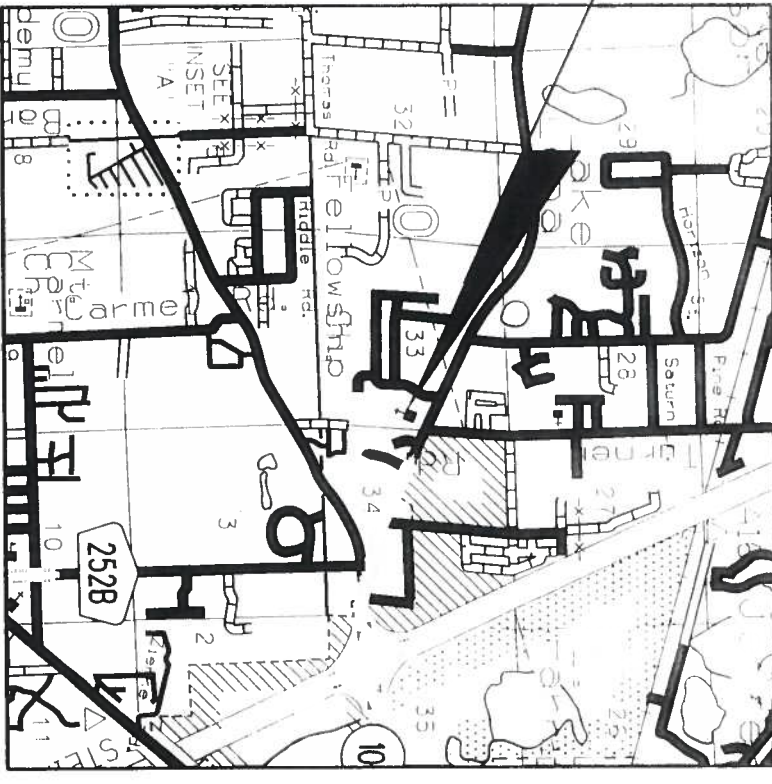
PROJECT LOCATION

PROJECT LOCATION

SUBJECT PROPERTY IS LOCATED AT
SECTION 33, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA



VICINITY MAP



For Permitting -3rd FDOT Submittal
WINSBERG, INC. PROJECT NUMBER: 1525

GENERAL NOTES

1. The contractor shall verify all conditions and dimensions at the job site to ensure that all work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of difference immediately and prior to proceeding with the work.
2. The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
3. Site contractor shall coordinate all work with other contractors within project limits.
4. The contractor shall waste all excess earth on site as directed by the engineer.
5. Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
6. Boundary and topographical information shown was obtained from a survey performed by Daniel & Gore LLC, Florida Certificate No. XXXX
7. All existing utilities shall be located (horizontal and vertical) prior to beginning work. Any existing utilities shown in these plans are approximate only and shall be verified in the field by non-destructive methods. The engineer shall be notified immediately of any discrepancies.
8. The design of all utility service connections (defined as the conduit connecting the utility from the building to the point it enters/leaves the collection distribution system) is the responsibility of the contractor and/or his structural engineer or architect. Such utility service connections shall have equivalent or greater capacity than the conduit inside such building(s) serviced, and shall be designed according to all building codes and all other applicable regulations. The site engineer shall be notified immediately if a conflict arises between any proposed service connections and these plans.
9. All site construction shall be in accordance with the Columbia County Land Development Regulations.
10. Contractor shall contact the Columbia County, Building and Zoning department to perform the following site inspections:
A. Erosion and sediment control - prior to beginning construction
B. Site compliance - once building foundation is poured and improvements are staked out.
C. Final site compliance - once all improvements are finalized
11. All proposed construction shall conform to the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction and the Florida Department of Transportation Design Standards
12. All new traffic signage and pavement markings shall conform to the current manual on Uniform Traffic Control Devices and the current FDOT design standards.
13. All storm sewer pipes shall have a minimum cover of 6". Limerock backfill shall be used if pipe under pavement has less than 12" cover.
14. Existing drainage structures within the construction limits shall not be removed, unless otherwise specified in the plans.
15. All swales, depression areas and retention ponds shall be inspected monthly for sinkhole occurrence. Should a sinkhole occur, the area should be repaired as soon as possible. If a solution pipe sinkhole forms within the storm water system, the sinkhole shall be repaired by backfilling with a low permeability material. A 2-foot cap that extends 2 feet beyond the perimeter of the sinkhole shall be constructed with clayey soils. The clayey soil should have at least 20% passing the number 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2%-4% above optimum. The clay soil cap shall be re-graded to prevent ponding and re-vegetated.
16. Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Contractor shall give a copy of this as-built survey to Columbia County Building & Zoning department.
17. Contractor shall contact SRWMD and the engineer of record 48 hours prior to beginning construction.

EROSION CONTROL NOTES

1. Contractor shall adhere to the Erosion Control Plan and all erosion and sediment control regulations as set by SRWMD and other governing authorities and use (as a minimum) the erosion measures control described and shown in these plans
2. This project shall comply with all applicable water quality standards
3. Sediment and erosion control measures and stormwater management facilities shall be installed prior to any other construction.
4. Contractor is responsible for implementing additional measures as required for proper erosion and sediment control. The contractor should use BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
5. Sediment and erosion control measures shall not be removed until all construction is complete and a permanent ground cover has been established.
6. During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
7. All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
8. Loaded haul trucks shall be covered with tarps and excess dirt removed daily.
9. Silt fences shall be located on site to prevent sediment and erosion from leaving project limits. Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
10. The retention basin(s) shall be constructed initially to serve as a sediment trap during construction.
11. A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
12. All open drainage swales shall be grassed immediately and riprap shall be placed as required to control erosion.
13. All disturbed areas shall be stabilized immediately to prevent erosion. All slopes greater than 4h:1v shall be stabilized with sod. Staple sod shall be used on slopes greater than 2h:1v.
14. All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
15. All stabilization practices shall be initiated as soon as practicable in areas of the job where construction activities have temporarily or permanently stopped, but in no case shall the disturbed area be left unprotected for more than three (3) days
16. Qualified personnel shall inspect the stockpile areas, silt fence, construction entrance, and all disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 0.5 inches or greater. Corrective actions shall be taken immediately
17. Contractor is responsible for the construction and maintenance of all erosion and sediment controls during proposed construction.

ABBREVIATIONS

OVER-UNDER HEAD	TYPE OF UTILITY	Ø	DIAMETER	IN.	INVERT ELEVATION
CHC	VC	C	CABLE		
OME	UE	E	ELECTRIC		
OUT	UT	T	TELEPHONE		
RCP	REINFORCED CONCRETE PIPE	SAN	SANITARY SEWER	R	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	SS	STORM SEWER	Q	CENTER LINE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W	WATER LINE	Q	BASE LINE
BCCMP	BURIED CORRUGATED METAL PIPE	G	GAS	R	RADIUS OF CURVE
BCCSP	BURIED CORRUGATED STEEL PIPE	MES	MITERED END SECTION	EOP	EDGE OF PAVEMENT
		WSWT	WET SEASON WATER TABLE	BM	BENCHMARK
		IP	IRON PIPE		

LEGEND

ITEM	SYMBOL	ITEM	SYMBOL
CONCRETE VOLUME		METER OF CONTROLS	
IRON PIPE		WAVE	
BENCHMARK		PERMANENT	
SOUNDING LOCATION		BACKSIGHT ENTER	
POWER POLE		FIRE HYDRANT	
TELEPHONE POLE		WATER IN BEND	
SHARED POWER POLE		WATER TEE	
ANCHOR PIN		SINGLE WATER SERVICE	
LIGHT		DOUBLE WATER SERVICE	
SIGNAL POST		SANITARY SINGLE WATER SERVICE	
TOAEP		SANITARY DOUBLE WATER SERVICE	
FENCE		SANITARY MANHOLE	
SILT FENCE		STORMWATER MANHOLE	
VEGETATION OR LANDSCAPING		STORMWATER DRAINAGE INLET	
TREE		STORMWATER PIPE	
GRAVEL OR RIPRAP		MITERED END SECTION	
CONCRETE PAVEMENT		ENERGY DISSIPATION PAD	
HANDICAP PARKING		DITCH BLOCK	
FLOW ARROW SHEET		FLOW ARROW JITTER	
GROUND CONTOUR (EXISTING)		GROUND CONTOUR (PROPOSED)	
SPOT ELEVATION (EXISTING)		SPOT ELEVATION (PROPOSED)	



DATE	REVISION NOTES

EMORY MEDICAL CENTER

LEGEND AND GENERAL NOTES

David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 32051 PE# 68463 - CA# 2959	
For Permitting and Review. Not Final.	
DRAWN BY DW	CHECKED BY DW
PROJECT # 1525	SHEET 2

GENERAL UTILITY NOTES

- All existing utilities shall be located prior to beginning work. This includes:
Verifying location, horizontal and vertical, at any connection point of the existing utility. The engineer shall be notified immediately of any discrepancies existing between the construction plans and actual field conditions. Existing utilities shown in these plans are approximate only and shall be verified in the field by non-destructive methods.
- Contractor shall review and become familiar with all required utility connections prior to bidding. Contractor shall provide all work and materials required to complete connection to the existing utilities. This includes, but is not limited to, manhole coring, wet taps, pavement repairs and directional boring.
- Contractor shall contact the City of Lake City (386.337.2311) prior to beginning work to coordinate inspection of utility connections.
- Existing water service lines in service during construction. The City of Lake City shall be notified in the event interruptions to service are required.
- All new and relocated water main pipes, fittings, appurtenances and parking and joint materials shall conform to applicable American Water Works Association (AWWA) standards and/or manufacturer's recommendations.
- Sufficient valves shall be provided in new and relocated water mains to minimize inconvenience and sanitary hazards during repairs.
- At high points where air can accumulate in new and relocated water mains, hydrants or air release valves shall be provided to remove air.
- Automatic air release valves on new and relocated water mains shall not be located where flooding of the valve manhole or chamber could occur.
- Hydrant drains, flushing devices, air release valves or chambers, manholes containing valves, block-offs, meters, or other appurtenances provided in conjunction with new and relocated water mains shall not be connected directly to any sanitary or storm sewer.
- Stones found in trenches for new and relocated water and sanitary sewer mains shall be removed to a depth of at least six inches below the bottom of pipe. Continuous and uniform bedding shall be provided in these trenches. This backfill material shall be tamped in layers around pipe to a sufficient height above pipe to adequately support and protect the pipe.
- All leaks, bends, plugs and hydrants in new and relocated water mains shall be provided with restrained joints to prevent movement. Mismatched mechanical joints, restraints or approved alternative (no thrust blocks) shall be used with manufacturer's recommendations. All restrained joints shall be inspected by the City.
- A 24" minimum cover height shall be provided above any new or relocated water or sanitary sewer main crossing under any surface water. Provide the following features if within of surface water is greater than 15' at this crossing:
A) Flexible water-tight joints throughout the crossing.
B) Easily accessible valves located in a manhole.
C) Permanent taps on each side of valve within the manhole to allow for sampling and insertion of a small meter to determine leakage.
- Pipe or backflow prevention shall be provided in accordance with rule 62-556, 360 F.A.C. (cross-connection control for public water systems).
- This project shall not include any interconnection between previously separate public water systems having separate water supply sources.
- Any new and relocated water laterals shall cross above sanitary sewer pipe or provide protection to prevent contamination as required by FDOT and other applicable standards.
- Contractor shall provide an as-built survey for water and sanitary sewer extensions.
- Contractor shall provide tracer wire above all new and relocated water and sanitary sewer mains.
- Locator devices shall be provided at water and sanitary sewer tap locations.
- All utility construction shall be in accordance with all applicable building codes and with the City of Lake City Utility Standards unless otherwise approved by the engineer.

PIPES AND FITTINGS

- General: All pipe and fittings for water and wastewater service shall be clearly marked with the name or trademark of the manufacturer, the location of the plant and the strength designation, as applicable.
- Polyvinyl Chloride (PVC):
 - Potable water and effluent reuse pipe shall be manufactured from clean virgin type 1, grade 1 rigid unplasticized polyvinyl chloride resin conforming to ASTM designation D1784. Potable water and reuse pipe shall have the national sanitation foundation (NSF) seal, shall conform to AWWA C-900, and shall have a dimension ratio (DR) of not more than 18. PVC pipe for wastewater force mains shall have a DR of not more than 25, or less if design considerations require. The PVC pipe shall have integral bell push on type joints conforming to ASTM D3139. Pipe used for reuse mains shall be purple (Pantone 522C), for water main shall be blue and for wastewater shall be green in color.
 - Connections for pipe 2 inches in diameter and larger shall be rubber compression ring type. Pipe shall be extruded with integral thickened bell walls without increase in DR. Rubber ring gaskets shall consist of synthetic compounds meeting the requirements of ASTM designation D1869, and suitable for the designated service. Other connections shall be solvent cemented joints.

PIPES AND FITTINGS CONTINUED

- Gravity wastewater PVC pipe and fittings shall be manufactured from polyvinyl chloride resin conforming to ASTM designation D1784. Pipe and fittings of this material shall conform to ASTM designation D3034 and 6072. Standard specifications for type 2SM polyvinyl chloride sewer pipe and fittings. All pipe and fittings shall have a standard dimension ratio (SDR) of not more than 35.
- PVC pipe for gravity sewers shall be supplied in standard lengths not to exceed 20' feet and be furnished with irregularly formed bell joints.
- All PVC pipe and accessories less than 2 inches in diameter shall be schedule 60 and be of rigid normal impact polyvinyl chloride. The pipe and accessories shall conform to ASTM specification D1784 and product standard B62.1-73. All materials to be furnished complete to perform the work, including solvent cement, etc.
- Connections: Connection of PVC gravity sewer lines to manholes shall be made by using a PVC manhole coupling adapter connecting piece manufactured from a 2 foot piece of PVC pipe with a water stop or rubber boot. The connection shall provide flexibility and a watertight connection at the structure.
- Connections to existing wastewater manholes: Core-fill manhole for installation of wastewater pipe. Install pipe with Kern-Seal or equal boot. Grout annular space with non-shrink grout. Coordinate with City of Lake City Inspector 48 hours in advance.
- Service Pipe
- Water service pipe: All potable water-service lines shall be 1-inch, 1 1/2 inches or 2 inches polyethylene tubing conforming to AWWA C-800 and C-901.
- Wastewater service lateral: All wastewater service laterals shall be PVC and have a minimum diameter of 6 inches and shall conform to ASTM D3034 SDR 35.
- Pressure Pipe Restraints:
 - Pressure pipe fittings shall be restrained with restraint glands and devices as approved by the City. Concrete thrust blocks are not acceptable for pipe restraint unless previously approved by the City for limited applications.
 - The minimum number of restrained joints required for resisting forces at fittings and changes in direction of pipe shall be determined from the length of restrained pipe on each side of fittings and changes in direction necessary to develop adequate resisting friction with the soil. The required lengths of restrained joint ductile iron pipe shall be determined by the engineer.
 - Special Items:
 - Expansion joints: Pipe expansion joints shall be suitable for the applicable service with a minimum 1500 PSI working pressure.
 - Flagged coupling adapters: Units shall be compatible with ANSI standard E-16.1, 125 LB Flanges.
 - Cast iron sleeves and wall pipes: Units shall have integral annular ring washers, and also conform to other requirements for cast iron fittings specified in this section. Sleeves and wall pipes to have laying length and ends required for proper installation.
 - Tapping saddles: Units shall be fabricated of ductile iron and suitable for either wet or dry installation. The sealing gasket shall be the "O-Ring" type suitable for the applicable service. Outlet flange shall be ANSI B16.1, 125 LB standard. The straps and bolts shall be a corrosion resistant alloy steel.
 - Tapping sleeves: Units shall be of the mechanical joint type or fabricated steel type sleeves for pressure connections 4 inches and larger. All pressure connections to asbestos cement pipe and all sizes on size" tap shall utilized mechanical joint sleeves.
 - A. Mechanical joint sleeves: Sleeves shall be cast of gray-iron or ductile iron and have an outlet flange with the dimensions of the class 125 flanges as shown in ANSI B16.1. Properly recessed for tapping valve. Glands shall be gray-iron or ductile iron. Gaskets shall be vulcanized natural or synthetic rubber. Bolts and nuts shall comply with ANSI/AWWA C-111/A 21.11. Sleeves shall be capable of withstanding a 200 PSI working pressure.
 - B. Steel tapping sleeve: Sleeves shall be fabricated of minimum 3/8-inch carbon steel meeting ASTM A285, grade.
 - C. Outlet flange shall meet AWWA C-207, Class D, ANSI 150 LB, drilling and be properly recessed for the tapping valve. Bolts and nuts shall be high strength low alloy steel to ANSI/AWWA A-21.11/C-111. Gasket shall be vulcanized natural or synthetic rubber. Sleeve shall have manufacturer applied fusion bonded epoxy coating, minimum 12-mil thickness.
 - Service saddles: Saddles for ductile iron pipe shall be double strap, anchored by a minimum four (4) bolt pattern on a ductile iron saddle body. Service saddles for PVC pipe shall have a double strap sized exactly to the pipe outside diameter. Sealing gaskets shall be suitable for the applicable service and straps shall be corrosion resistant alloy steel. The City may require a stainless steel strap and fusion epoxy or nylon coated ductile iron body with stainless steel hardware in areas designated as corrosive.
- Polyethylene encasement: Encasement shall have a minimum thickness of 6-mils and comply with the applicable provisions of ANSI/AWWA C-105 A21.5. Polyethylene encasement for gray and ductile iron piping for water and other liquids.

PIPE RESTRAINT NOTES

- Ductile iron fittings to be restrained to PVC (C900), pipe with series 2000 PV mechanical restraint glands as manufactured by Ebara Iron, Inc. or approved equivalent DI fittings to be restrained to DIP per current DIPRA standards.
- PVC (C900), pipe to be restrained each side of fittings for lengths as noted in table below. Restraint will be accomplished with ductile iron restraint harness conforming to ASTM A-536. Restraint harnesses to be supplied 1600 as manufactured by Ebara Iron, Inc. or equivalent. Restraint for DIP shall be by internal restraint gaskets per current DIPRA standards.
- The table below shows typical numbers of 20' length sections of pipe to be mechanically restrained for the following assumptions: (1) Depth of cover = 36 inches. (2) Test pressure = 150 psi. (3) Safety factor = 1.5. (4) Laying conditions = Pipe embedded in loose clean sand and compacted to top of pipe (approximately 90% standard proctor). (5) Silty sands and sand silt mixture for backfill material.

City of Lake City standard utility notes

The following are the associated utility permits that ARE required for this project City County

The utility plan and plat shows all Public Utility Easements, PUEs, in a map and bounds format. Upon City's approval of plans for developments not being platred, Owner may choose to grant the easels and boundary easements as shown, or a blanket easement over the entire property, provided facilities are installed within the prescribed distances as shown on the utility plans and in accordance with the Utility Separation Requirements Table in Appendix C of the City of Lake City WWM RCW Design Standards.

All construction materials and methods for potable water, wastewater and reclaimed water systems shall be in conformance with City of Lake City's most recent Potable Water, Wastewater and Reclaimed Water System Design Standards and Approved Materials Manual.

Potable Water and Wastewater mains shall maintain a minimum 10 feet horizontal and 1.5 foot vertical separation.

A minimum horizontal separation of 10 feet for potable water mains, wastewater force mains and reclaimed water mains and 15 feet for gravity wastewater mains shall be provided and maintained from trees, buildings, transformers and all permanent structures. Live Oak trees require an additional 5 feet of horizontal clearance. Service laterals require 5 feet less clearance for each of the utilities, note that water service laterals shall be installed within 3' sleeves. (See City of Lake City Standards - Horizontal Separation Distances for Parallel and Perpendicular Clearance from Other Objects Table.)

Potable water services, requiring a separate water meter, shall be provided to each lot, building or parcel. For commercial, multifamily and institutional developments, the Developer shall be responsible for installing potable water services and Valve Assembly Package up to and including the meter yoke box (installed at final grade) and associated appurtenances for meters 1" and smaller (see City of Lake City WWM RCW Construction Details with a one-year warranty).

2" valves located in paved areas, including sidewalks, shall be City of Lake City approved cast iron, resilient seat gate valves with standard 2" operating nut threaded with brass nipple between the valves and tapping saddle or tapped tee.

Water mains 4" in diameter and greater, placed under roadways, shall be cement lined ductile iron pipe (CLDIP) extending 5 feet past the back of curb (3 feet within City of Lake City limits). Tracer wire installed on PVC water mains shall continue across the CLDIP sections.

1" and 2" water service crossings located under roadways shall be encased in 3 SCH 40 PVC extending 5 past the back of curb (3 feet inside City of Lake City limits).

Anchoring (tee couplings, and bends shall be used on all fire hydrant assemblies.

All pressurized main fittings shall be mechanical joint with restrained joint glands, a sufficient length of the pipe connected to the fittings shall be mechanically restrained to provide reaction as specified on the Restrained Joint Standard in the Construction Details of the City of Lake City Standards. Calculations for required restraint length must be provided if the specified restraint length, due to soil type or depth of cover, differs from those provided on these details.

All sanitary wastewater service laterals shall be min. 4" diameter PVC (SDR 35 at 1,000' min slope unless otherwise labeled.

Wastewater cleanout covers located within pavement and sidewalks adjacent to paved areas shall be rated for traffic load bearing. Wastewater cleanout covers for other sidewalks/alkways shall be brass with a square recess.

Manholes which are not installed under pavement shall have a min elevation at least 6" above finished grade and a 10:1 slope to finished grade.

Unless otherwise noted on the plans, the finished floor elevations of buildings shall be a minimum of 6" above the lowest upstream manhole top. If this is infeasible, a wastewater service lateral backwater valve (BWV) is required on the customer side of the cleanout.

When a potable or reclaimed water main, or a wastewater force main is routed within 10 ft. of an electric transformer, a 20' length of DIP shall be centered on the transformer with mechanical restraint at each end. No fittings or valves shall occur within 10 ft. of the nearest edge of the transformer. A minimum clearance of 3' shall be maintained between the main and the transformer.

MINIMUM NUMBER OF RESTRAINED JOINTS IN 20' STRAIGHT PIPE EACH SIDE OF RESTRAINED FITTING

FITTING	PIPE SIZE				
	6"	8"	10"	12"	16"
90° BENDS	1	1	2	2	2
45° BENDS	0	1	1	1	2
22-1/2° BENDS	0	0	0	0	
11-1/4° BENDS	0	0	0	0	
TEES (BRANCH)	1	2	2	2	2
DEAD END	2	2	2	2	2

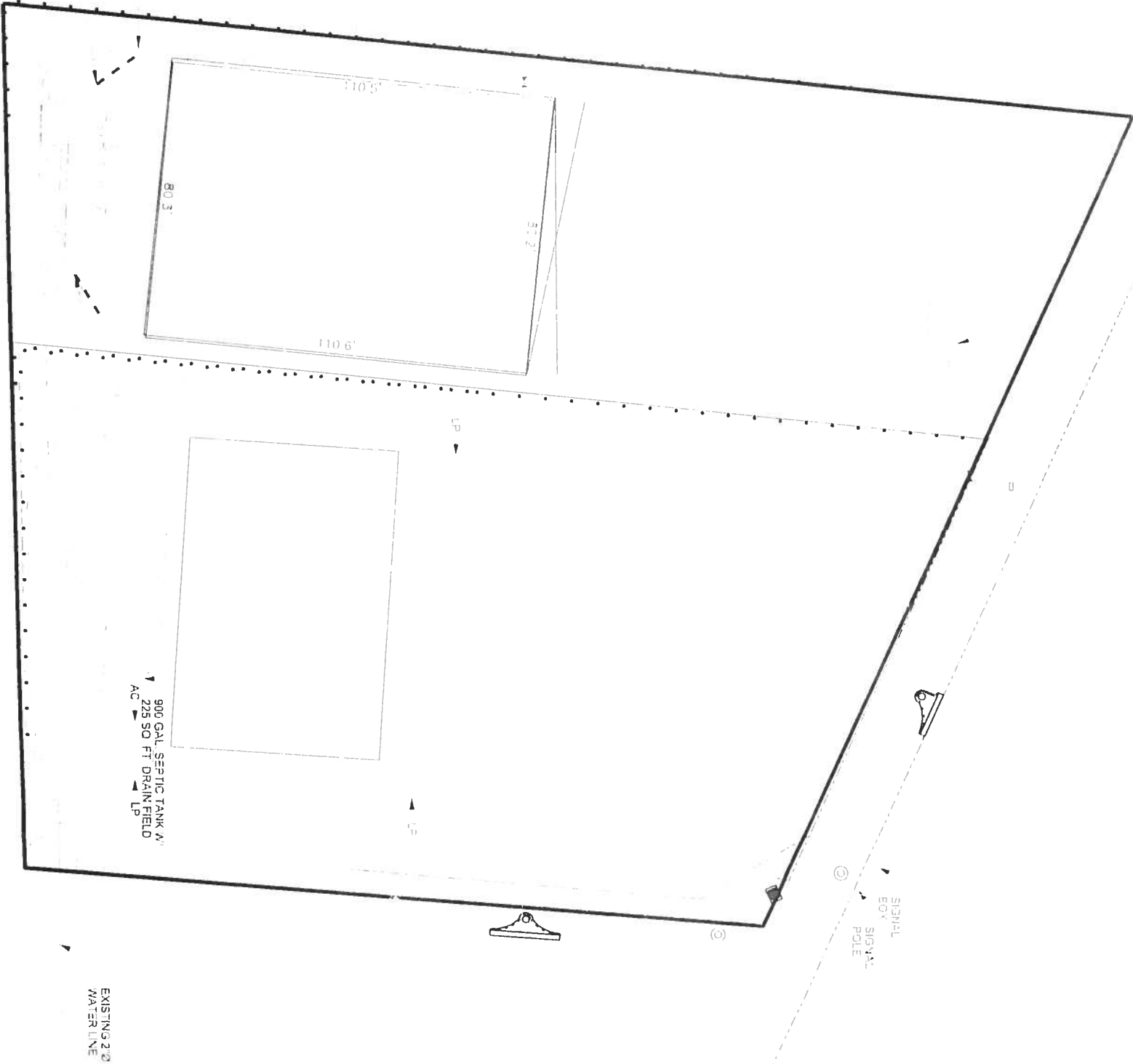
DATE	REVISION NOTES

EMORY MEDICAL CENTER

UTILITY NOTES

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Lake City FL 32056	
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For Permitting and Review, Not Final.	
DRAWN BY DW	CHECKED B DW
PROJECT # 1525	SHEET 3

EAST 2ND ST
SEWER FORCE MAIN



REVISION NOTES		DATE

EMORY MEDICAL CENTER

EXISTING CONDITIONS

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P.O. Box 2815
Lake City FL, 3205
PE# 88463 - CA# 2959

For Permitting and
Review. Not Final.

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DW

CHECKED BY

DW

PROJECT #

1525

SHEET

4



**ZONING
COMMERCIAL HIGHWAY INTERCHANGE
FUTURE LAND USE CATEGORY
HIGHWAY INTERCHANGE**

TAX ID#: 33-35-16-02-60-007 33-35-16-02-60-001

IMPERVIOUS & LANDSCAPE AREA - EXISTING

6,260 SF TOTAL LOT AREA
3,480 SF SIDEWALK & CONCRETE PAVEMENT
11,118 SF ASPHALT PAVEMENT
11,986 SF GRAVEL PAVEMENT
20,727 SF LANDSCAPED AREA & NORTHEAST POND
1,675 SF SOUTHWEST STORMWATER POND
14,250 SF EXISTING BUILDINGS

IMPERVIOUS & LANDSCAPE AREA - PROPOSED

66,260 SF TOTAL LOT AREA
3,480 SF SIDEWALK & CONCRETE PAVEMENT
23,846 SF ASPHALT PAVEMENT
10,208 SF GRAVEL PAVEMENT
10,777 SF LANDSCAPED AREA
1,675 SF STORMWATER POND
14,250 SF EXISTING BUILDINGS

REQUIRED PARKING

WESTBUILDING
4,400 SF EXISTING MEDICAL / 150 = 29.3
3,350 SF NEW OFFICE/RETAIL / 150 = 22.3
1,050 SF WAREHOUSE / 150 = 0.7

EAST BUILDING

4.850 SF NEW OFFICE RETAIL / 150 = 32.3
600 SF WAREHOUSE / 1500 = 0.4

TOTAL PARKING SPACES REQUIRED = 85.0

AVAILABLE PARKING

4 HANDICAP
81 REGULAR
85 TOTAL

OTHER INFORMATION

TOTAL LOT AREA = 66,260 FT²
FLOOR AREA RATIO =
14,250 FT² / 66,260 FT² = .215

$$\% \text{ COVERED BY STRUCTURES} = \frac{14,250 \text{ FT}^2}{66,260 \text{ FT}^2} = 21.5\%$$

REQUIRED FIRE FLOW

$$\begin{aligned} \text{FLOW} &= 13 \times C \times V_A \\ \text{SUBTRACT } -25\% \text{ FOR MEDICAL} \\ \text{FORC} &= 1.0 \text{ FLOW} = 13 \times 10 \times v1 + 250 \times 0.75 \\ &= 1.610 \text{ GPM} \end{aligned}$$

ACCORDING TO THE CLIENT, STRUCTURAL ENGINEER OR ARCHITECT, FIRE SPRINKLERS ARE NOT NEEDED DUE TO THE SIZE OF THE BUILDING

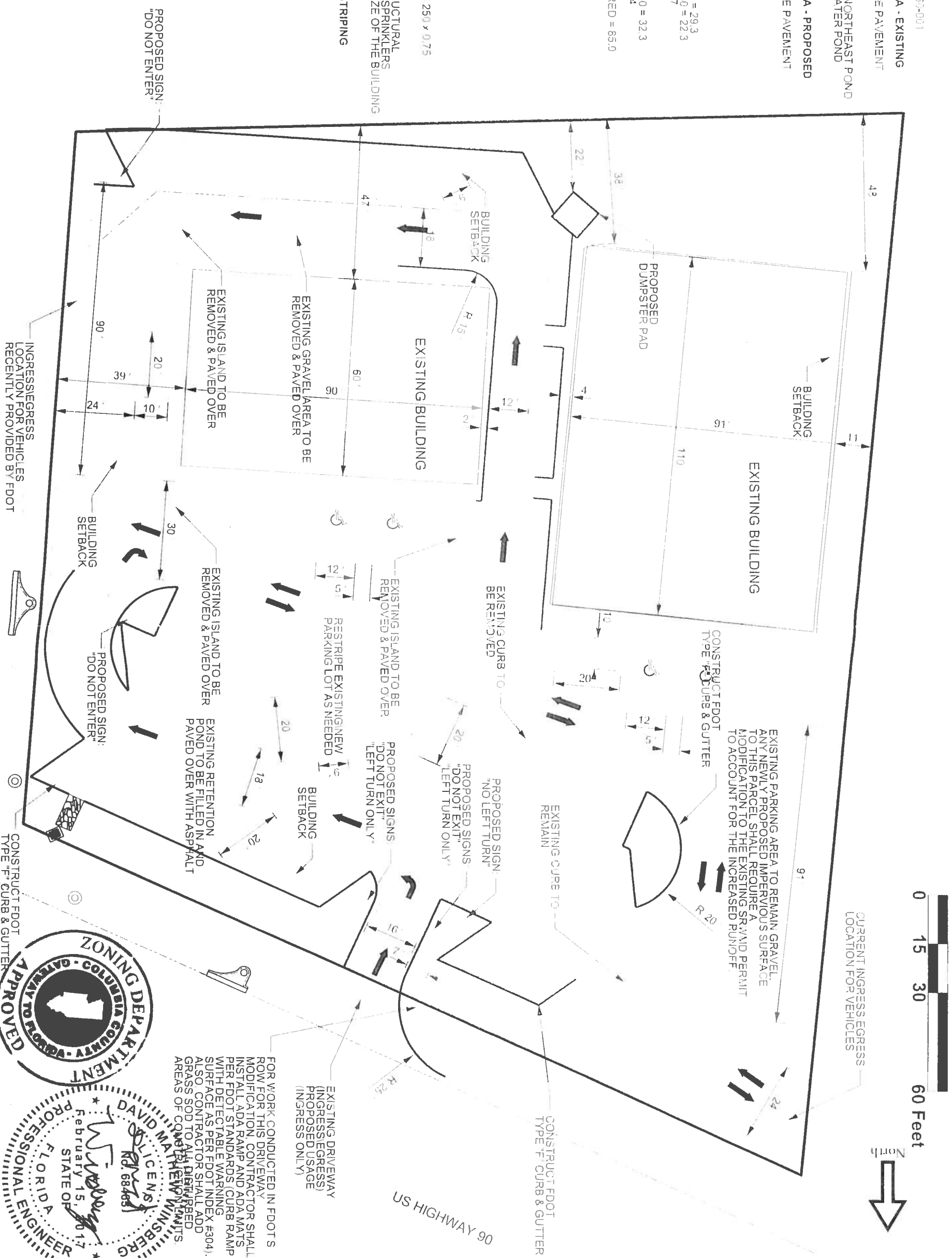
PROPOSED ON-SITE PAVEMENT STRIPING

ONE WAY ONLY

TWO LANE TRAFFIC

RIGHT TURN ONLY

LEFT TURN ONLY



DATE	REVISION NOTES

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SITE PLAN

David M. Winsberg
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PE# 68463 - CA# 29596

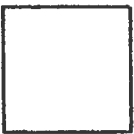
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PROJECT #	SHEET
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1525 | 5



PROPOSED LANDSCAPED
AREAS (GRASS)

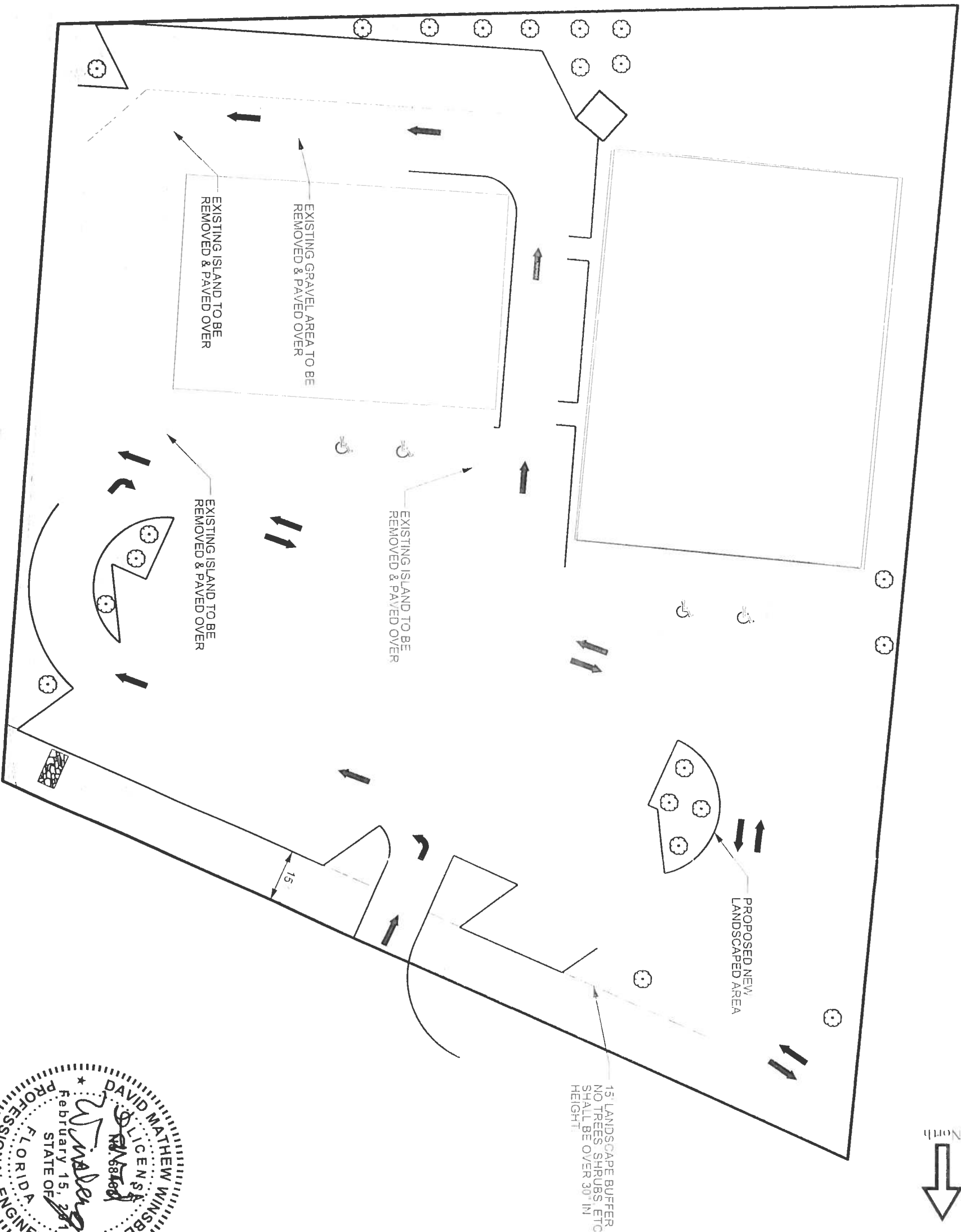
EXISTING TREE



PROPOSED TREE



60 Feet



15' LANDSCAPE BUFFER
NO TREES, SHRUBS, ETC.
SHALL BE OVER 30" IN
HEIGHT

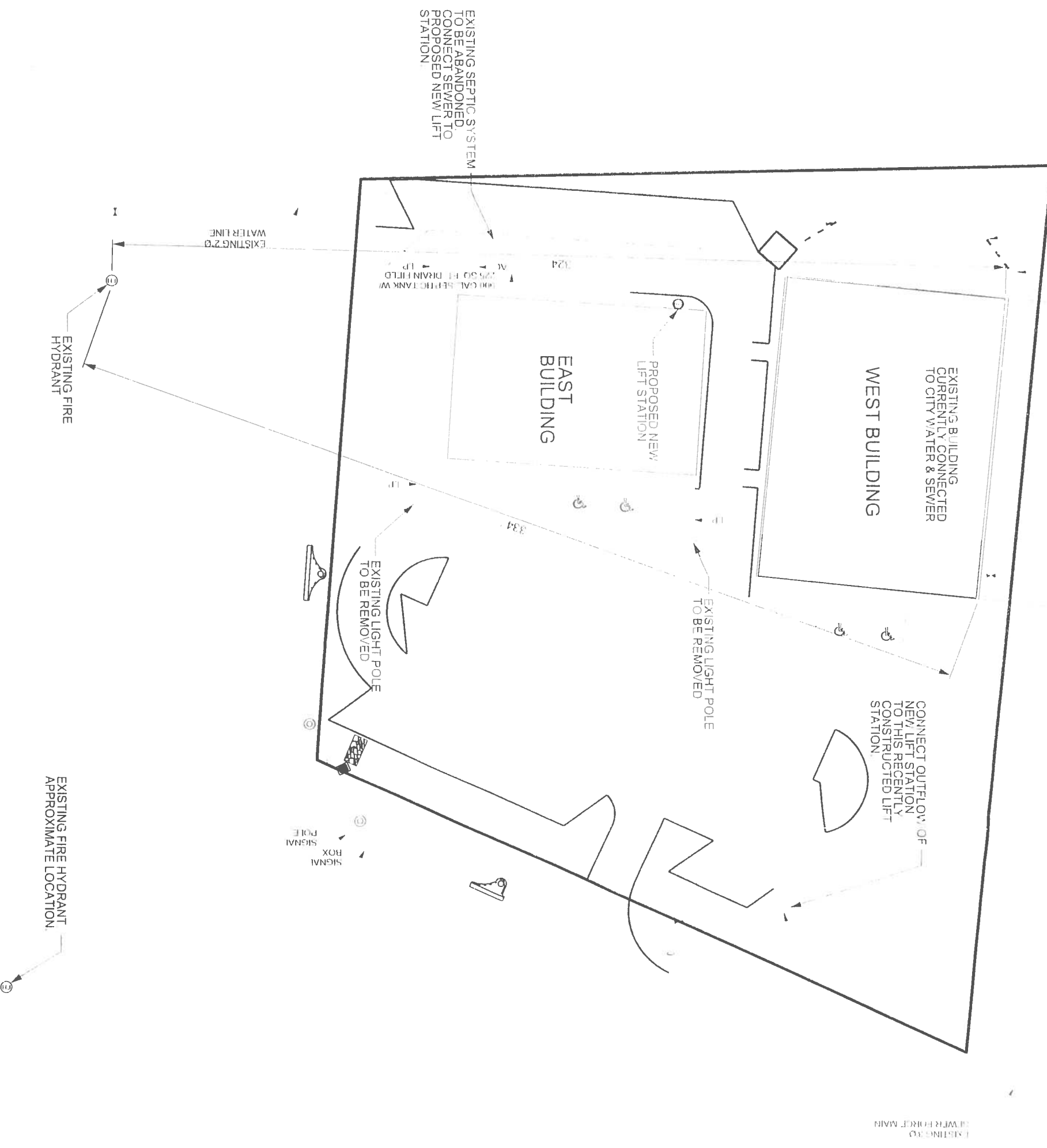


EMORY MEDICAL CENTER

LANDSCAPING PLAN

DATE	REVISION NOTES

David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 3205 PE# 68463 - CA# 2959	
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PROJECT # 1525	SHEET 6



EXISTING FIRE HYDRANT
APPROXIMATE LOCATION

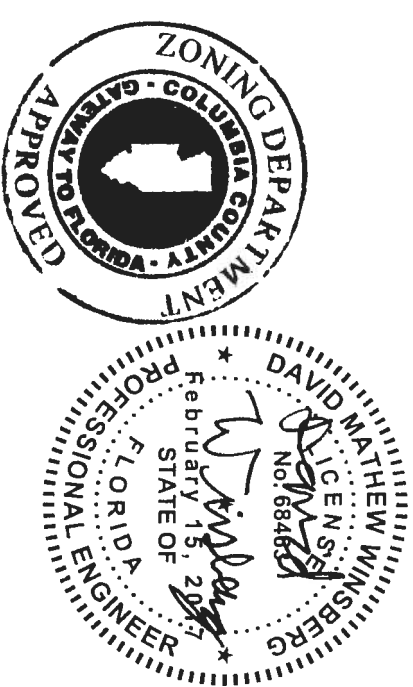
REQUIRED FIRE FLOWS - WEST BUILDING
FIRE FLOW RATE = 1,500 GPM
FIRE FLOW DURATION = 2 HOURS

REQUIRED FIRE FLOWS - EAST BUILDING
FIRE FLOW RATE = 1,500 GPM
FIRE FLOW DURATION = 2 HOURS

DISCLAIMER FOR FIRE PROTECTION DESIGN
CALCULATED FIRE FLOWS ASSUME TYPE III(211) CONSTRUCTION WITH NO SPRINKLER SYSTEMS, AND ARE AS SPECIFIED IN THE NFPA FIRE CODE, 2012 EDITION, TABLE 18.4.5.1.2

FIRE FLOW CALCULATIONS, DESIGNS, OR SPECIFICATIONS CREATED BY ANOTHER QUALIFIED AND LICENSED STRUCTURAL ENGINEER OR ARCHITECT WITH DETAILED KNOWLEDGE OF THE BUILDING PLANS AND BUILDING DESIGN OVERRIDE THESE FIRE PROTECTION SPECIFICATIONS

ALL WATER & SEWER
FOR BUILDINGS TO BE
CONNECTED TO CITY
WATER & SEWER SYSTEM.

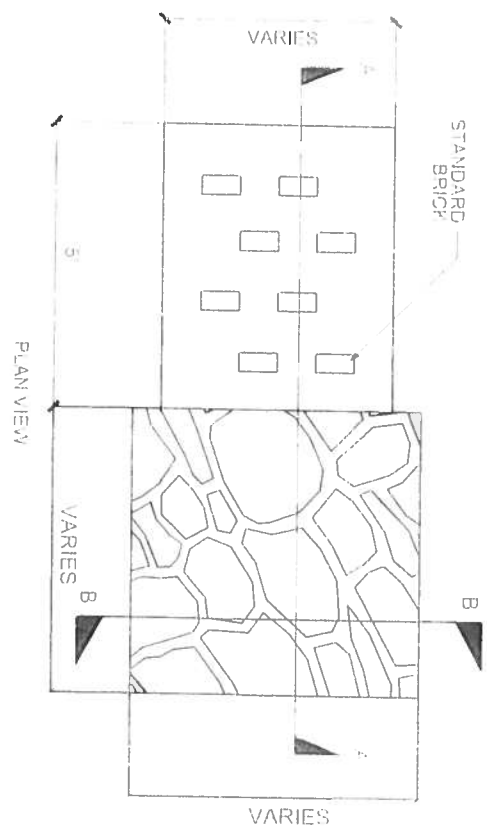
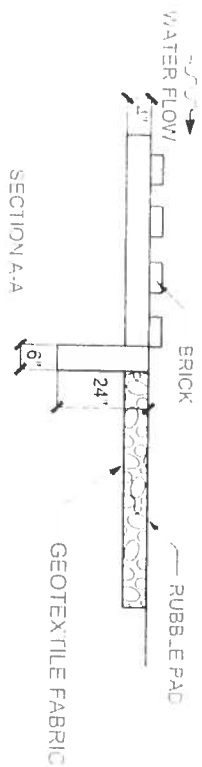
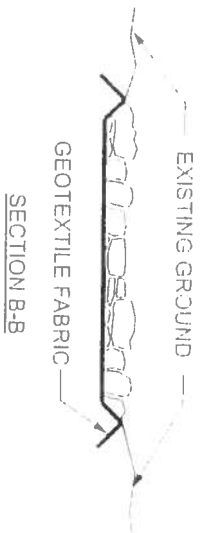


DATE	REVISION NOTES

EMORY MEDICAL CENTER

UTILITY PLAN

David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 3205 PE# 68463 - CA# 2959	
For Permitting and Review. Not Final.	
DRAWN BY DW	CHECKED BY DW
PROJECT # 1525	SHEET 8



ENERGY DISSIPATION & RUBBLE PADS

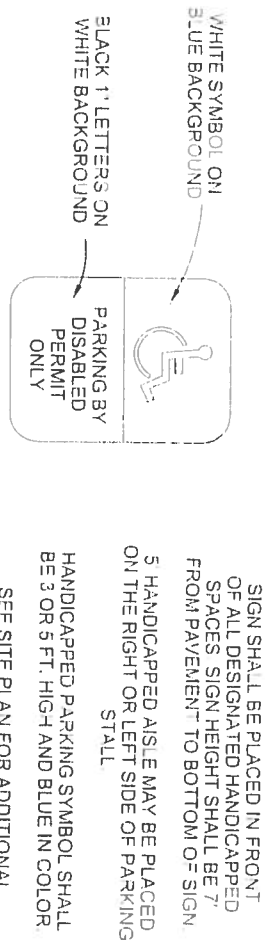
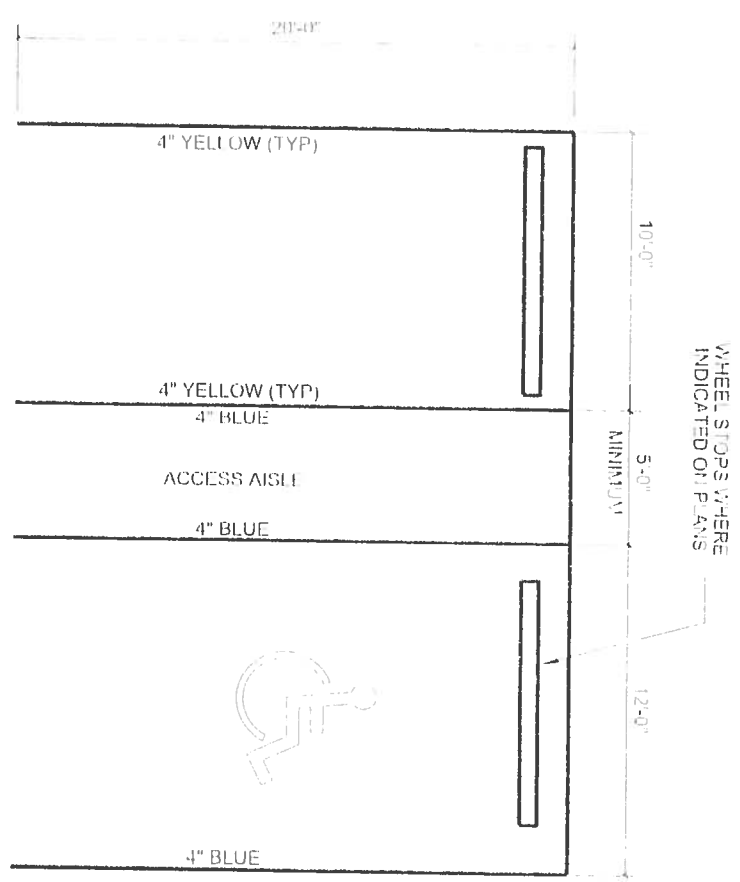
NTS



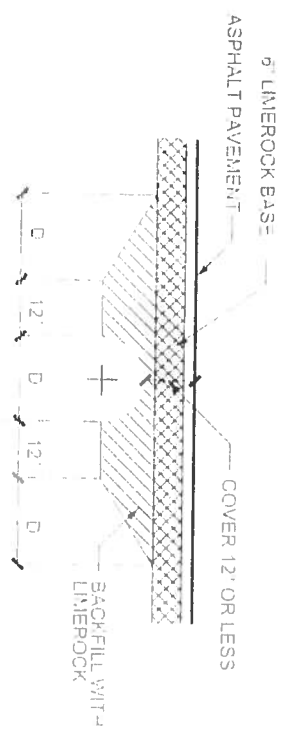
PARKING APRON

1.25" TYPE S ASPHALT

6" LIMEROCK BASE

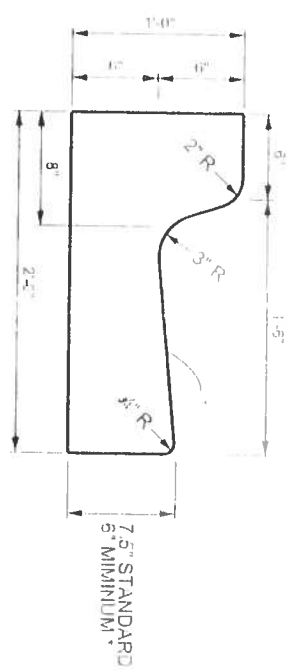


PARKING STALL DETAIL



BACKFILL DETAIL FOR PIPES WITH LESS THAN 12" COVER

NTS



TYPE "F" CURB AND GUTTER

DATE	REVISION NOTES

EMORY MEDICAL CENTER

MISCELLANEOUS DETAILS

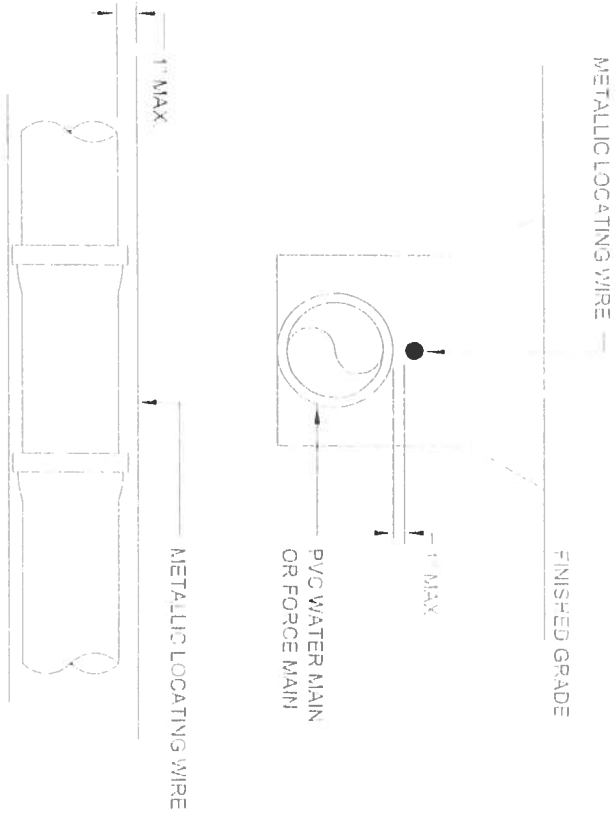
David M. Winsberg
Winsberg, Inc.
P.O. Box 2815
Lake City FL, 32056
PE# 68463 - CA# 29596

For Permitting and Review, Not Final.

DRAWN BY DW
CHECKED BY DW

PROJECT # SHEET

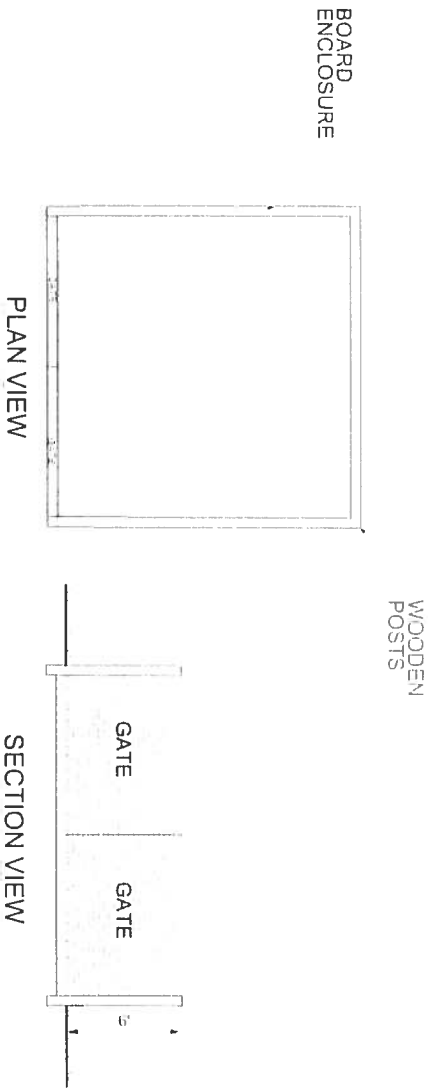




NOTES

PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12' ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.

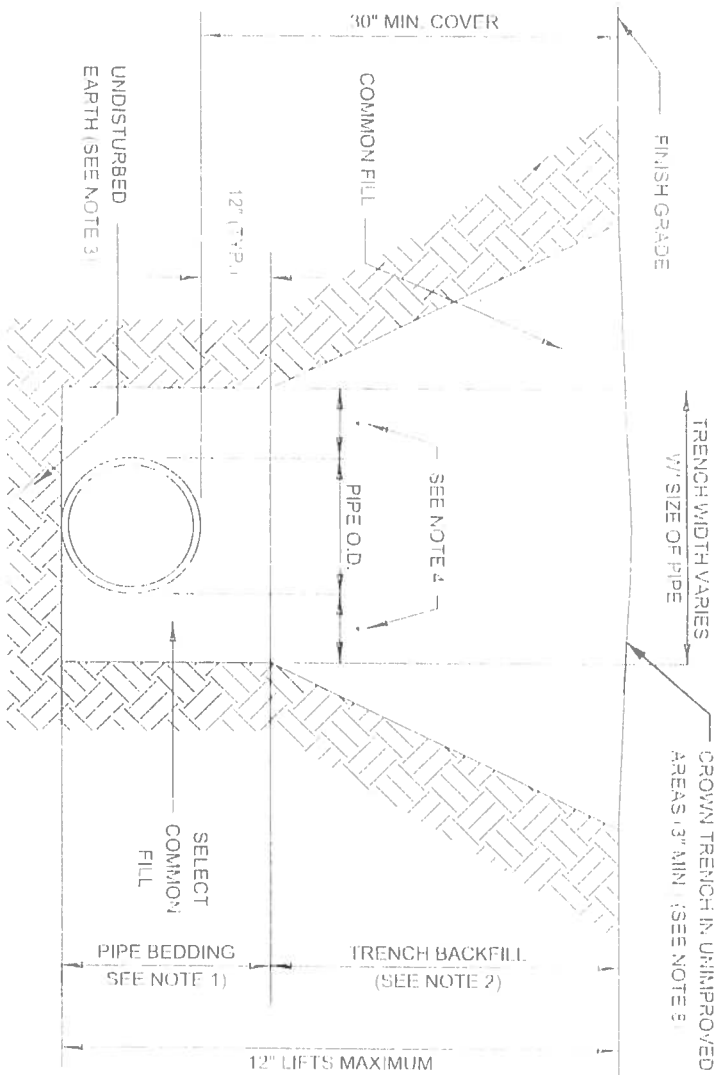
PVC PIPE LOCATING WIRE DETAIL



PROVIDE 1/8"-1/4" CONTRACTION JOINTS 10' CENTERS MAXIMUM.

DUMPSTER PAD DETAIL

2500 PSI CONCRETE W/ FIBER MESH

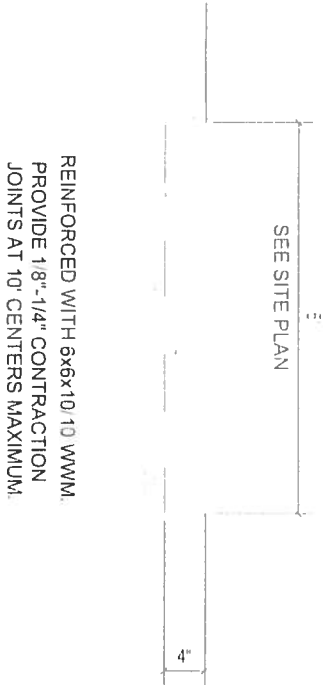


NOTES:

- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
- (1) 15" MAX. FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROAD CONSTRUCTION SPECIFICATIONS.

TRENCH AND BACKFILL DETAIL

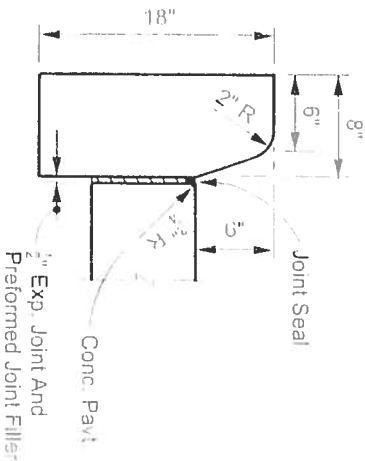
NTS



REINFORCED WITH 6x6x10-10 WWM.

PROVIDE 1/8"-1/4" CONTRACTION JOINTS AT 10' CENTERS MAXIMUM.

STANDARD SIDEWALK DETAIL



For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, performed joint filler and joint seal are required between curbs and concrete pavement only, see FDOT Index #300

TYPE "D" CURB

DATE	REVISION NOTES

EMORY MEDICAL CENTER

MISCELLANEOUS DETAILS

David M. Winsberg
Winsberg, Inc.
P.O. Box 2815
Lake City FL, 32051
PE# 68463 - CA# 2959

For Permitting and Review, Not Final.

DRAWN BY	CHECKED BY
DW	DW
PROJECT #	SHEET
1525	10



EMORY MEDICAL CENTER

WINSBERG, INC.

P.O. Box 2815
Lake City FL, 32056
Phone: (386) 755-7449
Fax: (888)-522-0030
david@winsberginc.com

David M. Winsberg, PE
PE License # 68463
Cert. Auth. # 29596

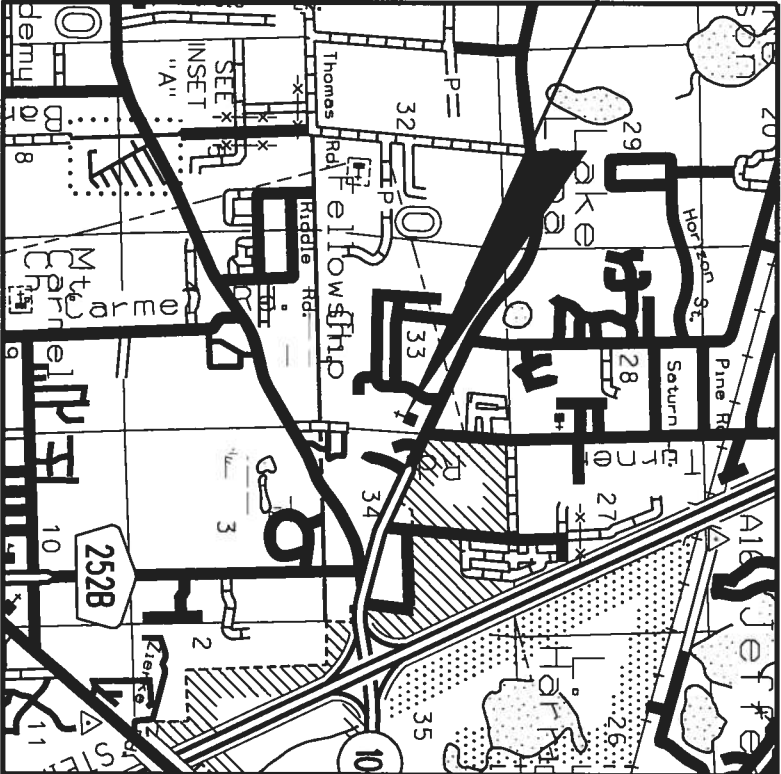


DEVELOPER
Emory Medical Corp.
351 NE Franken St. #1125
Lake City, FL 32025

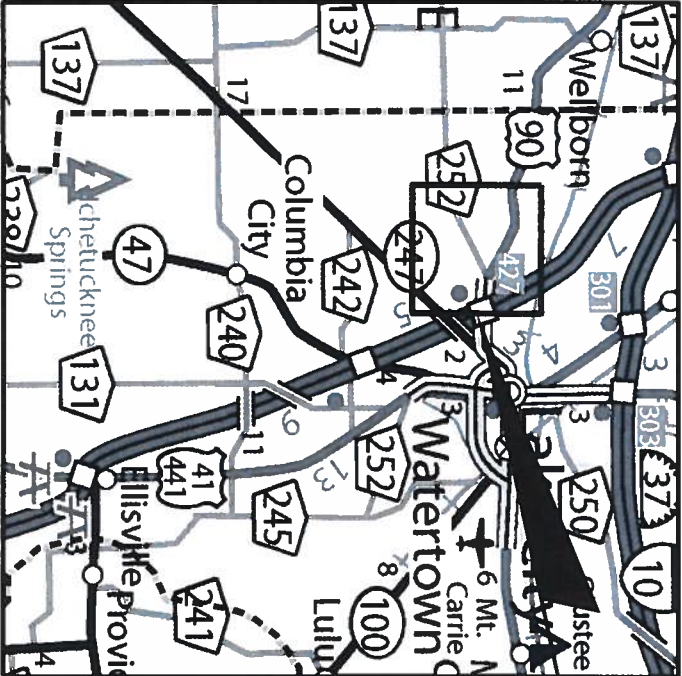
1	COVER SHEET
2	LEGEND AND GENERAL NOTES
3	UTILITY NOTES
4	EXISTING CONDITIONS
5	SITE PLAN
6	LANDSCAPING PLAN
7	GRADING PLAN
8	UTILITY PLAN
9 - 10	MISCELLANEOUS DETAILS

SHEET INDEX

VICINITY MAP



LOCATION MAP



PROJECT LOCATION

SUBJECT PROPERTY IS LOCATED AT
SECTION 33, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

PROJECT LOCATION



For Permitting - 1st Columbia County Re-submittal
WINSBERG, INC. PROJECT NUMBER: 1525

GENERAL NOTES

1. The contractor shall verify all conditions and dimensions at the job site to ensure that all work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of difference immediately and prior to proceeding with the work.
2. The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
3. Site contractor shall coordinate all work with other contractors within project limits.
4. The contractor shall waste all excess earth on site as directed by the engineer.
5. Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
6. Boundary and topographical information shown was obtained from a survey performed by Daniel & Gore, LLC., Florida Certificate No. XXXX
7. All existing utilities shall be located (horizontal and vertical) prior to beginning work. Any existing utilities shown in these plans are approximate only and shall be verified in the field by non-destructive methods. The engineer shall be notified immediately of any discrepancies.
8. The design of all utility service connections (defined as the conduit connecting the utility from the building to the point it enters/leaves the collection/distribution system) is the responsibility of the contractor and/or his structural engineer or architect. Such utility service connections shall have equivalent or greater capacity than the conduit inside such building(s) serviced, and shall be designed according to all building codes and all other applicable regulations. The site engineer shall be notified immediately if a conflict arises between any proposed service connections and these plans.
9. All site construction shall be in accordance with the Columbia County Land Development Regulations.
10. Contractor shall contact the Columbia County Building and Zoning department to perform the following site inspections:

A) Erosion and sediment control - prior to beginning construction.

B) Site compliance - once building foundation is poured and improvements are staked out.

C) Final site compliance - once all improvements are finalized.
11. All proposed construction shall conform to the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction and the Florida Department of Transportation Design Standards.
12. All new traffic signage and pavement markings shall conform to the current manual on Uniform Traffic Control Devices and the current FDOT design standards.
13. All storm sewer pipes shall have a minimum cover of 6". Limerock backfill shall be used if pipe under pavement has less than 12" cover.
14. Existing drainage structures within the construction limits shall not be removed, unless otherwise specified in the plans.
15. All swales, depression areas and retention ponds shall be inspected monthly for sinkhole occurrence. Should a sinkhole occur, the area should be repaired as soon as possible. If a solution pipe sinkhole forms within the storm water system, the sinkhole shall be repaired by backfilling with a low permeability material. A 2-foot cap that extends 2 feet beyond the perimeter of the sinkhole shall be constructed with clayey soils. The clayey soil should have at least 20% passing the number 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2%-4% above optimum. The clay soil cap shall be re-graded to prevent ponding and re-vegetated.
16. Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Contractor shall give a copy of this as-built survey to Columbia County Building & Zoning department.
17. Contractor shall contact SRWMD and the engineer of record 48 hours prior to beginning construction.





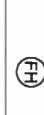







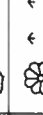




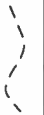
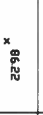








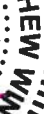
EROSION CONTROL NOTES

1. Contractor shall adhere to the Erosion Control Plan and all erosion and sediment control regulations as set by SRWMD and other governing authorities, and use (as a minimum) the erosion measures control described and shown in these plans.
2. This project shall comply with all applicable water quality standards.
3. Sediment and erosion control measures and stormwater management facilities shall be installed prior to any other construction.
4. Contractor is responsible for implementing additional measures as required for proper erosion and sediment control. The contractor should use BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
5. Sediment and erosion control measures shall not be removed until all construction is complete and a permanent ground cover has been established.
6. During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
7. All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
8. Loaded haul trucks shall be covered with tarps and excess dirt removed daily.
9. Silt fences shall be located on site to prevent sediment and erosion from leaving project limits. Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
10. The retention basin(s) shall be constructed initially to serve as a sediment trap during construction.
11. A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
12. All open drainage swales shall be grassed immediately and riprap shall be placed as required to control erosion.
13. All disturbed areas shall be stabilized immediately to prevent erosion. All slopes greater than 4h:1v shall be stabilized with sod. Staple sod shall be used on slopes greater than 2h:1v.
14. All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
15. All stabilization practices shall be initiated as soon as practicable in areas of the job where construction activities have temporarily or permanently stopped, but in no case shall the disturbed area be left unprotected for more than three (3) days.
16. Qualified personnel shall inspect the stockpile areas, silt fence, construction entrance, and all disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 0.5 inches or greater. Corrective actions shall be taken immediately.
17. Contractor is responsible for the construction and maintenance of all erosion and sediment controls during proposed construction.

ABBREVIATIONS

OVER HEAD	UNDER GROUND	TYPE OF UTILITY	Ø	DIAMETER	INV	INVERT
OHC	UC	C	CABLE	DBI	DITCH BOTTOM INLET	EL ELEVATION
OHE	UE	E	ELECTRIC	MH	MANHOLE	LF LINEAR FEET
OHT	UT	T	TELEPHONE	CO	CLEANOUT	NTS NOT TO SCALE
RCP	REINFORCED CONCRETE PIPE	SAN	SANITARY SEWER	R	PROPERTY LINE	
CMP	CORRUGATED METAL PIPE	SS	STORM SEWER	¢	CENTER LINE	
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W	WATER LINE	ø	BASE LINE	
		G	GAS	R	RADIUS OF CURVE	
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE	MES	MITERED END SECTION	EOP	EDGE OF PAVEMENT	
BCOSP	BITUMINOUS COATED CORRUGATED STEEL PIPE	WSWT	WET SEASON WATER TABLE	BM	BENCH MARK	
		IP	IRON PIPE			

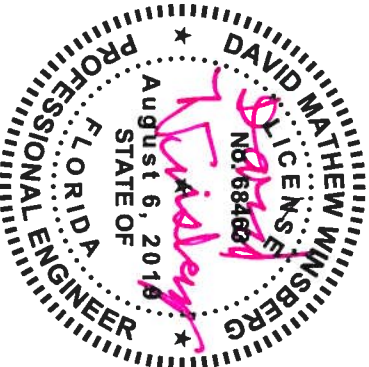
LEGEND

ITEM	SYMBOL	ITEM	SYMBOL
CONCRETE MONUMENT	■	METER OR CONTROLS	
IRON PIPE	●	VALVE	
BENCH MARK		REDUCER	▼
SOIL BORING LOCATION		BACKFLOW PREVENTER	
POWER POLE	◇	FIRE HYDRANT	
TELEPHONE POLE	○	WATER 90° BEND	L
SHARED POWER POLE	⊖	WATER TEE	└
ANCHOR PIN	→	SINGLE WATER SERVICE	
LIGHT	∞	DOUBLE WATER SERVICE	
SIGN & POST	⊥	SANITARY SINGLE WATER SERVICE	⊕
TOWER		SANITARY DOUBLE WATER SERVICE	
FENCE	—●—	SANITARY MANHOLE	
SILT FENCE	—●—	STORMWATER MANHOLE	
VEGETATION OR LANDSCAPING		STORMWATER DRAINAGE INLET	
TREE		STORMWATER PIPE	
GRAVEL OR RIPRAP		MITERED END SECTION	
CONCRETE PAVEMENT		ENERGY DISSIPATION PAD	
HANDICAP PARKING		DITCH BLOCK	
FLOW ARROW (SHEET)		FLOW ARROW (GUTTER)	
GROUND CONTOUR (EXISTING)		GROUND CONTOUR (PROPOSED)	
SPOT ELEVATION (EXISTING)		SPOT ELEVATION (PROPOSED)	

EMORY MEDICAL CENTER

LEGEND AND GENERAL NOTES

DATE	REVISION NOTES



David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 32056 PE# 68463 - CA# 29586	
For Permitting and Review. Not Final.	
DRAWN BY DW	CHECKED BY DW
PROJECT # 1525	SHEET 2

GENERAL UTILITY NOTES

1. All existing utilities shall be located prior to beginning work. This includes verifying location (horizontal and vertical) at any connection point of the existing utility. The engineer shall be notified immediately of any discrepancies existing between the construction plans and actual field conditions. Existing utilities shown in these plans are approximate only and shall be verified in the field by non-destructive methods.
2. Contractor shall review and become familiar with all required utility connections prior to bidding. Contractor shall provide all work and materials required to complete connection to the existing utilities. This includes, but is not limited to, manhole coring, wet taps, pavement repairs and directional boring.
3. Contractor shall contact the City of Lake City (386.397.2310) prior to beginning work to coordinate inspection of utility connections.
4. Existing water should remain in service during construction. The City of Lake City shall be notified in the event interruptions to service are required.
5. All new and relocated water main pipes, fittings, appurtenances, and packing and joint materials shall conform to applicable American Water Works Association (AWWA) standards and/or manufactures recommendations.
6. Sufficient valves shall be provided in new and relocated water mains to minimize inconvenience and sanitary hazards during repairs.
7. At high points where air can accumulate in new and relocated water mains, hydrants or air release valves shall be provided to remove air.
8. Automatic air release valves on new and relocated water mains shall not be located where flooding of the valve manhole or chamber could occur.
9. Hydrant drains, flushing devices, air release valves or chambers, manholes containing valves, blow-offs, meters, or other appurtenances provided in conjunction with new and relocated water mains shall not be connected directly to any sanitary or storm sewer.
10. Shores found in trenches for new and relocated water and sanitary sewer mains shall be removed to a depth of at least six inches below the bottom of pipe continuous and uniform bedding shall be provided in these trenches. This backfill material shall be tamped in layers around pipe to a sufficient height above pipe to adequately support and protect the pipe.
11. All tees, bends, plugs, and hydrants in new and relocated water mains shall be provided with restrained joints to prevent movement. Megalug mechanical joint restraints or approved alternative (not thrust blocks) shall be used with manufactures recommendations. All restrained joints shall be left open until inspected by the City.
12. A 24" minimum cover height shall be provided above any new or relocated water or sanitary sewer main crossing under any surface water. Provide the following features if width of surface water is greater than 15' at this crossing:

A) Flexible water tight joints throughout the crossing.

B) Easily accessible valves located in a manhole.

C) Ferment tap on each side of valve within the manhole to allow for sampling and insertion of a small meter to determine leakage.
13. Proper backflow prevention shall be provided in accordance with rule 62-555.360 F.A.C. (cross-connection control for public water systems).
14. This project shall not include any interconnection between previously separate public water systems having separate water supply sources.
15. Any new and relocated water laterals shall cross above sanitary sewer pipe or provide protection to prevent contamination as required by FDEP and other applicable standards.
16. Contractor shall provide an as-built survey for water and sanitary sewer extensions.
17. Contractor shall provide tracer wire above all new and relocated water and sanitary sewer mains.
18. Locator devices shall be provided at water and sanitary sewer tap locations.
19. All utility construction shall be in accordance with all applicable building codes and with the City of Lake City Utility Standards unless otherwise approved by the engineer.

PIPES AND FITTINGS

- A. General: All pipe and fittings for water and wastewater service shall be clearly marked with the name or trademark of the manufacturer, the location of the plant and the strength designation, as applicable.
- B. Polyvinyl Chloride (PVC):

1. Potable water and effluent reuse pipe shall be manufactured from clean virgin type 1, grade 1 rigid unplasticized polyvinyl chloride resin conforming to ASTM designation D1784. Potable water and reuse pipe shall have the national sanitation foundation (NSF) seal, shall conform to AWWA C-900, and shall have a dimension ratio (DRI) of not more than 18. PVC pipe for wastewater force mains shall have a DR of not more than 25, or less if design considerations require. The PVC pipe shall have integral bell push on type joints conforming to ASTM D3139. Pipe used for reuse mains shall be purple (Fantone 522C), for water main shall be blue, and for wastewater shall be green in color.
2. Connections for pipe 2 inches in diameter and larger shall be rubber compression ring type. Pipe shall be extruded with integral thickened bell walls without increase in DR. rubber ring gaskets shall consist of synthetic compounds meeting the requirements of ASTM designation D1869, and suitable for the designated service. Other connections shall be solvent cemented joints.

PIPES AND FITTINGS CONTINUED

3. Gravity wastewater PVC pipe and fittings shall be manufactured from polyvinyl chloride resin conforming to ASTM designation D1784. Pipe and fittings of this material shall conform to ASTM designation D3034 and F679. "Standard specifications for type PSM polyvinyl chloride sewer pipe and fittings." All pipe and fittings shall have a standard dimension ratio (SDR) of not more than 35.
4. PVC pipe for gravity sewers shall be supplied in standard lengths not to exceed 20 feet, and be furnished with integrally formed bell joints.
5. All PVC pipe and accessories less than 2 inches in diameter shall be schedule 80 and be of rigid normal impact polyvinyl chloride. The pipe and accessories shall conform to ASTM specification D1785 and product standard PS2-1-70. All materials to be furnished complete to perform the work, including solvent cement, etc.
6. Connections: Connection of PVC gravity sewer lines to manholes shall be made by using a PVC manhole coupling adapter connecting piece manufactured from a 2 foot piece of PVC pipe with a water stop or rubber boot. The connection shall provide flexibility and a watertight connection at the structure.
7. Connections to existing wastewater manholes: Core-drill manhole for installation of wastewater pipe. Install pipe with Kor-n-Seal or equal boot. Grout annular space with non-shrink grout. Coordinate with City of Lake City Inspector 48 hours in advance.
- C. Service Pipe:

1. Water service pipe: All potable water service lines shall be 1-inch, 1 1/2 inches or 2 inches polyethylene tubing conforming to AWWA C-800 and C-901.

2. Wastewater service lateral: All wastewater service laterals shall be PVC and have a minimum diameter of 6 inches and shall conform to ASTM D3034, SDR 35.
- D. Pressure Pipe Restraints:

1. Pressure pipe fittings shall be restrained with resistant glands and devices as approved by the City. Concrete thrust blocks are not acceptable for pipe restraint unless previously approved by the City for limited applications.
2. The minimum number of restrained joints required for resisting forces at fittings and changes in direction of pipe shall be determined from the length of restrained pipe on each side of fittings and changes in direction necessary to develop adequate resisting friction with the soil. The required lengths of restrained joint ductile iron pipe shall be determined by the engineer.
- G. Special Items:

1. Expansion joints: Pipe expansion joints shall be suitable for the applicable service with a minimum 150 PSI working pressure.

2. Flanged coupling adapters: Units shall be compatible with ANSI standard B16.1, 125 LB. Flanges.

3. Cast iron sleeves and wall pipes: Units shall have integral annular ring waterstops, and also conform to other requirements for cast iron fittings specified in this section. Sleeves and wall pipes to have laying length and ends required for proper installation.

4. Tapping saddles: Units shall be fabricated of ductile iron and suitable for either wet or dry installation. The sealing gasket shall be the "O-Ring" type suitable for the applicable service. Outlet flange shall be ANSI B16.1, 125 LB. standard. The straps and bolts shall be a corrosion resistant alloy steel.

5. Tapping sleeves: Units shall be of the mechanical joint type or fabricated steel type sleeves for pressure connections 4 inches and larger. All pressure connections to asbestos cement pipe and all size on size" tap shall utilized mechanical joint sleeves.
- A. Mechanical joint sleeves: Sleeves shall be cast of gray-iron or ductile iron and have an outlet flange with the dimensions of the class 125 flanges as shown in ANSI B16.1 Properly recessed for tapping valve. Glands shall be gray-iron or ductile iron. Gaskets shall be vulcanized natural or synthetic rubber. Bolts and nuts shall comply with ANSI/AWWA C-111/A21.21.1. Sleeves shall be capable of withstanding a 200 PSI working pressure.
- B. Steel tapping sleeve: Sleeves shall be fabricated of minimum 3/8-inch carbon steel meeting ASTM A285, grade.
- C. Outlet flange shall meet AWWA C-207, Class D, ANSI 150 LB. drilling and be properly recessed for the tapping valve. Bolts and nuts shall be high strength low alloy steel to ANSI/AWWA A.21.11/C-11.1. Gasket shall be vulcanized natural or synthetic rubber. Sleeve shall have manufacturer applied fusion bonded epoxy coating, minimum 12-mil thickness.

6. Service saddles: Saddles for ductile iron pipe shall be double strap, anchored by a minimum four (4) bolt pattern on a ductile iron saddle body. Service saddles for PVC pipe shall have a double strap sized exactly to the pipe outside diameter. Sealing gaskets shall be suitable for the applicable service and straps shall be corrosion resistant alloy steel. The City may require a stainless steel strap and fusion epoxy or nylon coated ductile iron body with stainless steel hardware in areas designated as corrosive.

7. Polyethylene encasement: Encasement shall have a minimum thickness of 8-mils and comply with the applicable provisions of ANSI/AWWA C-105/A21.3, "Polyethylene encasement for gray and ductile iron piping for water and other liquids."

PIPE RESTRAINT NOTES

1. Ductile iron fittings to be restrained to PVC (C900) pipe with series 2000 PV mechanical restraint glands as manufactured by Ebaa Iron, Inc. or approved equivalent DI fittings to be restrained to DIP per current DIPRA standards.
2. PVC (C900) pipe to be restrained each side of fittings for lengths as noted in table below. Restraint will be accomplished with ductile iron restraint harness conforming to ASTM A-536. Restraint harnesses to be series 1600 as manufactured by Ebaa Iron, Inc. or equivalent. Restraint for DIP shall be by internal restraint gaskets per current DIPRA standards.
3. The table below shows typical numbers of 20' length sections of pipe to be mechanically restrained for the following assumptions: (1) Depth of cover = 36 inches. (2) Test pressure = 150 psi. (3) Safety factor = 1.5. (4) Laying conditions = Pipe embedded in loose clean sand and compacted to top of pipe (approximately 90% standard proctor). (5) Silty sands and sand silt mixture for backfill material.

City of Lake City standard utility notes:

The utility plan and plat shows all Public Utility Easements (PUE's) in a metes and bounds format. Upon City's approval of plans for developments not being platted, Owner may choose to grant the metes and bounds easements as shown, or a blanket easement over the entire property, provided facilities are installed within the prescribed distances as shown on the utility plans and in accordance with the Utility Separation Requirements Table in Appendix C of the City of Lake City WWW/RCW Design Standards.

All construction materials and methods for potable water, wastewater, and reclaimed water systems shall be in conformance with City of Lake City's most recent Potable Water, Wastewater and Reclaimed Water System Design Standards, and Approved Materials Manual.

Potable Water and Wastewater mains shall maintain a minimum 10 feet horizontal and 1.5 foot vertical separation.

A minimum horizontal separation of 10 feet for potable water mains, wastewater force mains, and reclaimed water mains, and 15 feet for gravity wastewater mains shall be provided and maintained from trees, buildings, transformers, and all permanent structures. Live Oak trees require an additional 5 feet of horizontal clearance. Service laterals require 5 feet less clearance for each of the utilities; note that water service laterals shall be installed within 3' sleeves. (See City of Lake City Standards – Horizontal Separation Distances for Parallel and Perpendicular Clearance from Other Objects Table.)

Potable water services, requiring a separate water meter, shall be provided to each lot, building or parcel. For commercial, multifamily, and institutional developments, the Developer shall be responsible for installing potable water services and Yoke Assembly Package up to and including the meter yoke, box (installed at final grade) and associated appurtenances, for meters 1" and smaller (see City of Lake City WWW/RCW Construction Details), with a one-year warranty.

2" valves located in paved areas, including sidewalks, shall be City of Lake City approved cast iron, resilient seal gate valves with standard 2" operating nut, threaded with brass nipple between the valves and tapping saddle or tapped tee.

Water mains 4" in diameter and greater, placed under roadways, shall be cement lined ductile iron pipe (CLDIP) extending 5 feet past the back of curb (3 feet within City of Lake City limits). Tracer wire installed on PVC water mains shall continue across the CLDIP sections.

1" and 2" water service crossings located under roadways shall be encased in 3" SCH 40 PVC extending 5' past the back of curb (3 feet inside City of Lake City limits).

Anchoring tees, couplings, and bends shall be used on all fire hydrant assemblies.

All pressurized main fittings shall be mechanical joint with restrained joint glands; a sufficient length of the pipe connected to the fittings shall be mechanically restrained to provide reaction as specified on the Restrainted Joint Standard in the Construction Details of the City of Lake City Standards. Calculations for required restraint length must be provided if the specified restraint length, due to soil type or depth of cover, differs from those provided on these details.

All sanitary wastewater service laterals shall be min. 4" diameter PVC (SDR 35) at 1.00% min. slope unless otherwise labeled.

Wastewater cleanout covers located within pavement and sidewalks adjacent to paved areas shall be rated for traffic load bearing. Wastewater cleanout covers in other sidewalks/sidewalkways shall be brass with a square recess.

Manholes which are not installed under pavement shall have a rim elevation at least 6" above finished grade, and a 10:1 slope to finished grade.

Unless otherwise noted on the plans, the finished floor elevations of buildings shall be a minimum of 6" above the lowest upstream manhole top. If this is infeasible, a wastewater service lateral backwater valve (BWV) is required on the customer side of the cleanout.

When a potable or reclaimed water main, or a wastewater force main is routed within 10 ft. of an electric transformer, a 20 ft. length of DIP shall be centered on the transformer with mechanical restraint at each end. No fittings or valves shall occur within 10 ft. of the nearest edge of the transformer. Minimum clearance of 3' shall be maintained between the main and the transformer.

MINIMUM NUMBER OF RESTRAINED JOINTS IN 20' STRAIGHT PIPE EACH SIDE OF RESTRAINED FITTING

FITTING	PIPE SIZE					
	6"	8"	10"	12"	16"	20"
90° BENDS	1	1	2	2	2	2
45° BENDS	0	1	1	1	1	1
22-1/2° BENDS	0	0	0	0	0	0
11-1/4° BENDS	0	0	0	0	0	0
TEES (BRANCH)	1	1	2	2	2	2
DEAD END	2	3	3	3	3	3

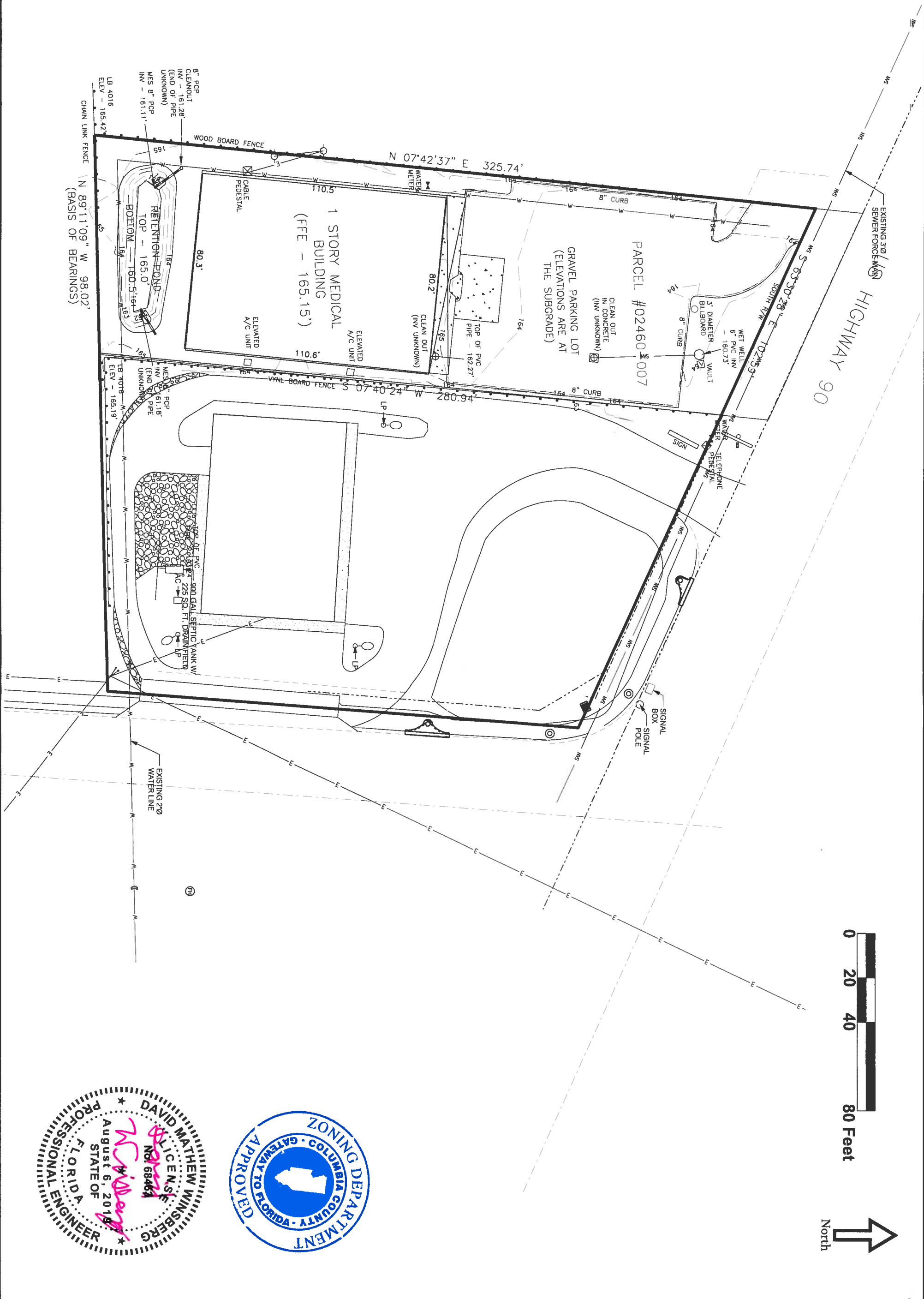
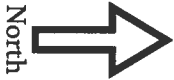


EMORY MEDICAL CENTER

UTILITY NOTES

REVISION NOTES		DATE	

David M. Winsberg	
Winsberg, Inc.	
P.O. Box 2815	
Lake City FL, 32056	
PE# 68463 - CA# 29586	
For Permitting and Review. Not Final.	
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DW	DW
PROJECT #	SHEET
1525	3



EMORY MEDICAL CENTER		EXISTING CONDITIONS, AS OF 2015		DATE	REVISION NOTES
David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 32056 PE# 68463 - CA# 29566		For Permitting and Review. Not Final.			
DRAWN BY DW	CHECKED BY DW	PROJECT # 1525			
SHEET 4					

**ZONING
COMMERCIAL HIGHWAY INTERCHANGE
FUTURE LAND USE CATEGORY
HIGHWAY INTERCHANGE**

TAX ID#:
33-3S-16-02460-007, 33-3S-16-02460-001

IMPERVIOUS & LANDSCAPE AREA - EXISTING
66,260 SF TOTAL LOT AREA
3,480 SF SIDEWALK & CONCRETE PAVEMENT
14,118 SF ASPHALT PAVEMENT
11,986 SF GRAVEL PAVEMENT
20,727 SF LANDSCAPED AREA & NORTHEAST POND
1,675 SF SOUTHWEST STORMWATER POND
14,250 SF EXISTING BUILDINGS

IMPERVIOUS & LANDSCAPE AREA - PROPOSED

66,266 SF	TOTAL LOT AREA
2,230 SF	SIDEWALK & CONCRETE PAVEMENT
25,446 SF	ASPHALT PAVEMENT
10,208 SF	GRAVEL PAVEMENT
10,777 SF	LANDSCAPED AREA
1,675 SF	STORMWATER POND
15,900 SF	EXISTINGPROPOSED BUILDINGS

REQUIRED PARKING
WEST BUILDING
4,400 SF EXISTING MEDICAL / 150 = 29.3
1,550 SF NEW OFFICE/RETAIL / 150 = 10.3
2,850 SF WAREHOUSE / 1,500 = 1.9

EAST BUILDING
6,450 SF NEW OFFICE/RETAIL / 150 = 43.0
600 SF WAREHOUSE / 1,500 = 0.4

TOTAL PARKING SPACES REQUIRED = 84.9

AVAILABLE PARKING
4 HANDICAP
81 REGULAR
85 TOTAL

OTHER INFORMATION
TOTAL LOT AREA = 66,260 FT²
FLOOR AREA RATIO =
15,900 FT² / 66,260 FT² = .240
% COVERED BY STRUCTURES =
15,900 FT² / 66,260 FT² = 24.0%

REQUIRED FIRE FLOW
 $\text{FLOW} = 18 \times \text{C} \times \text{VA}$
 SUBTRACT .25% FOR MEDICAL.
 FOR C = 1.0, $\text{FLOW} = 18 \times 1.0 \times \text{v}15,900 \times 0.75$
 = 1,800 GPM

ACCORDING TO THE CLIENT, STRUCTURAL ENGINEER, OR ARCHITECT, FIRE SPRINKLERS ARE NOT NEEDED DUE TO THE SIZE OF THE BUILDING

PROPOSED ON-SITE PAVEMENT STRIPING

ONE WAY ONLY

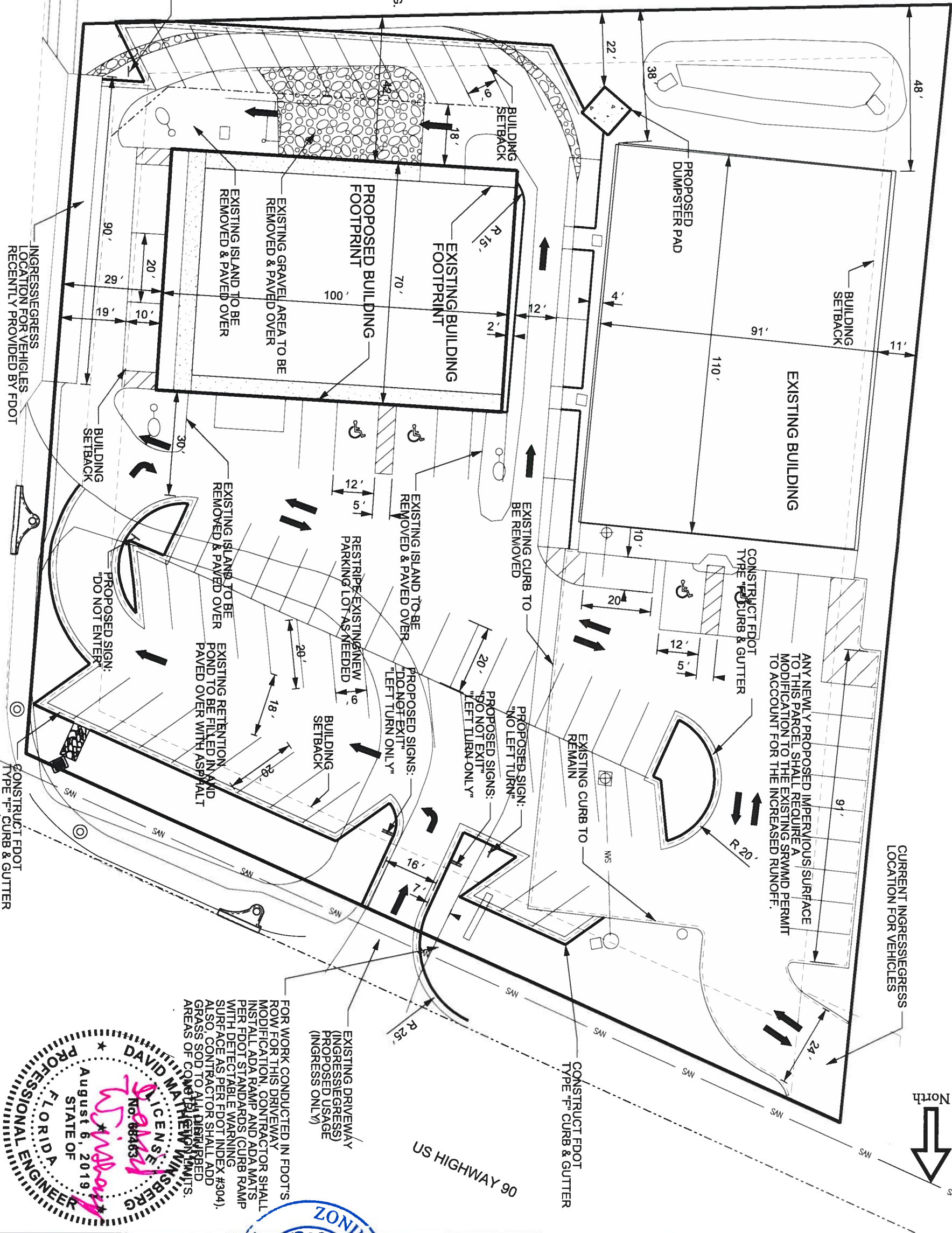
TWO LANE TRAFFIC

RIGHT TURN ONLY

LEFT TURN ONLY

**PROPOSED SIGN
"DO NOT ENTER"**

SW PINEMOUNT ROAD

**EMORY MEDICAL CENTER**

SITE PLAN

DATE	REVISION NOTES



David M. Winsberg
Winsberg, Inc.
P.O. Box 2815
Lake City FL, 32056
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1525	5

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PROPOSED LANDSCAPED
AREAS (GRASS)



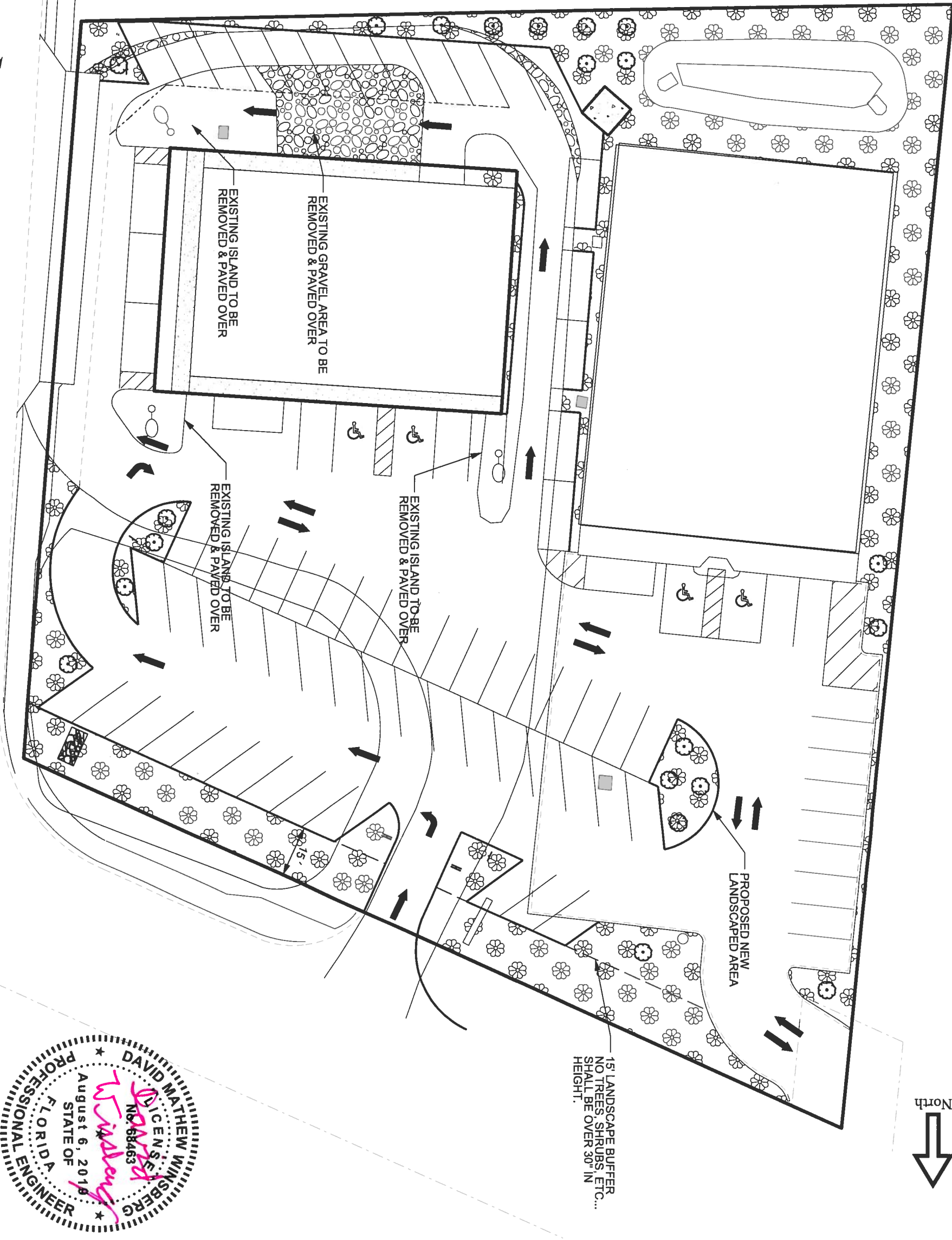
EXISTING TREE



PROPOSED TREE



60 Feet



EMORY MEDICAL CENTER

LANDSCAPING PLAN

REVISION NOTES		DATE

David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 32056 PE# 68463 - CA# 29396	
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PROJECT # 1525	SHEET 6

REVISION NOTES		DATE

EMORY MEDICAL CENTER

GRADING PLAN

David M. Winsberg
Winsberg, Inc.
P.O. Box 2815
Lake City FL, 32056
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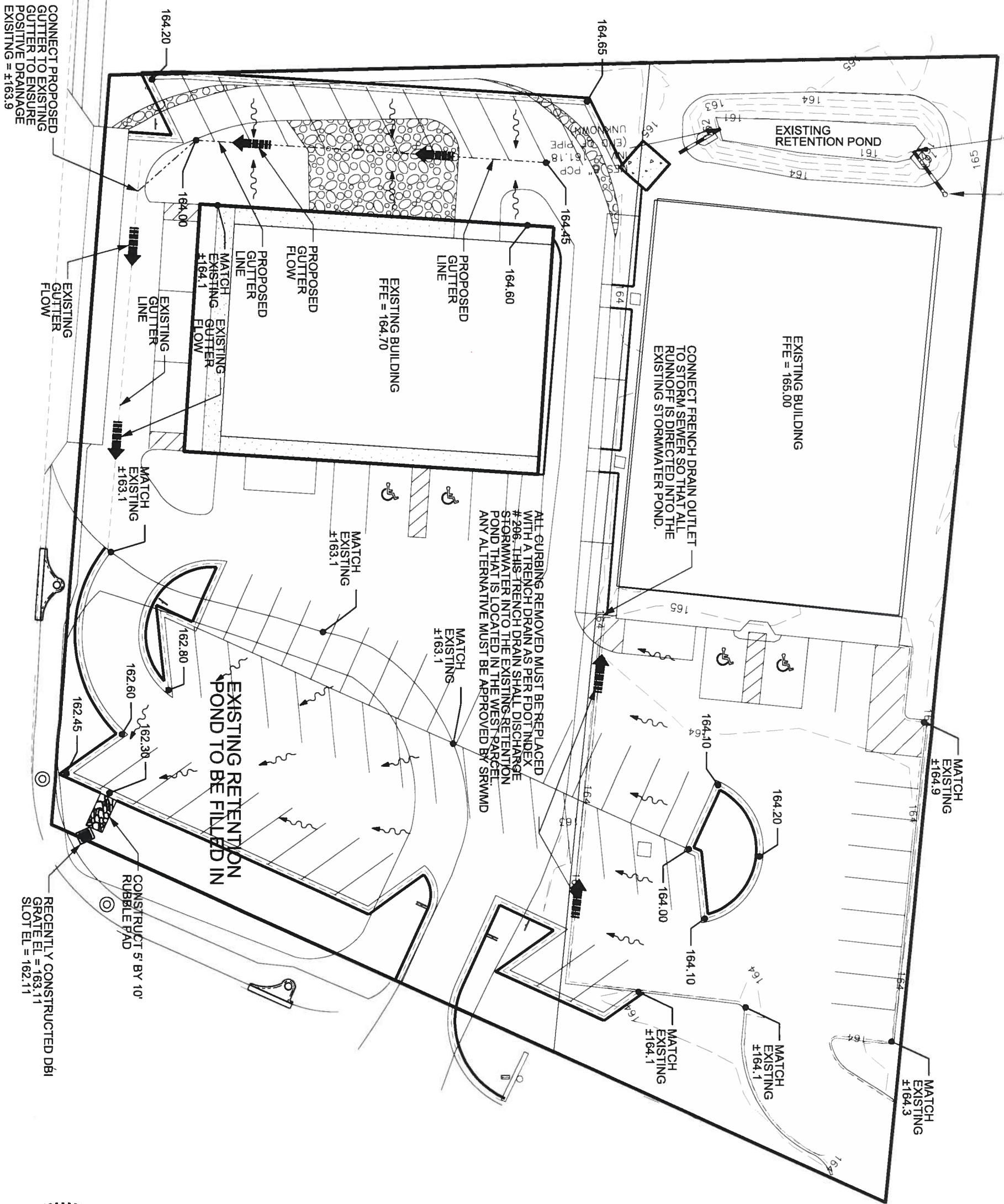
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PROJECT #

1525

SHEET

7



REVISION NOTES		DATE

EMORY MEDICAL CENTER

UTILITY PLAN

David M. Winsberg
Winsberg, Inc.
P.O. Box 2815
Lake City FL, 32056
PE# 68463 - CA# 29596

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1525

SHEET

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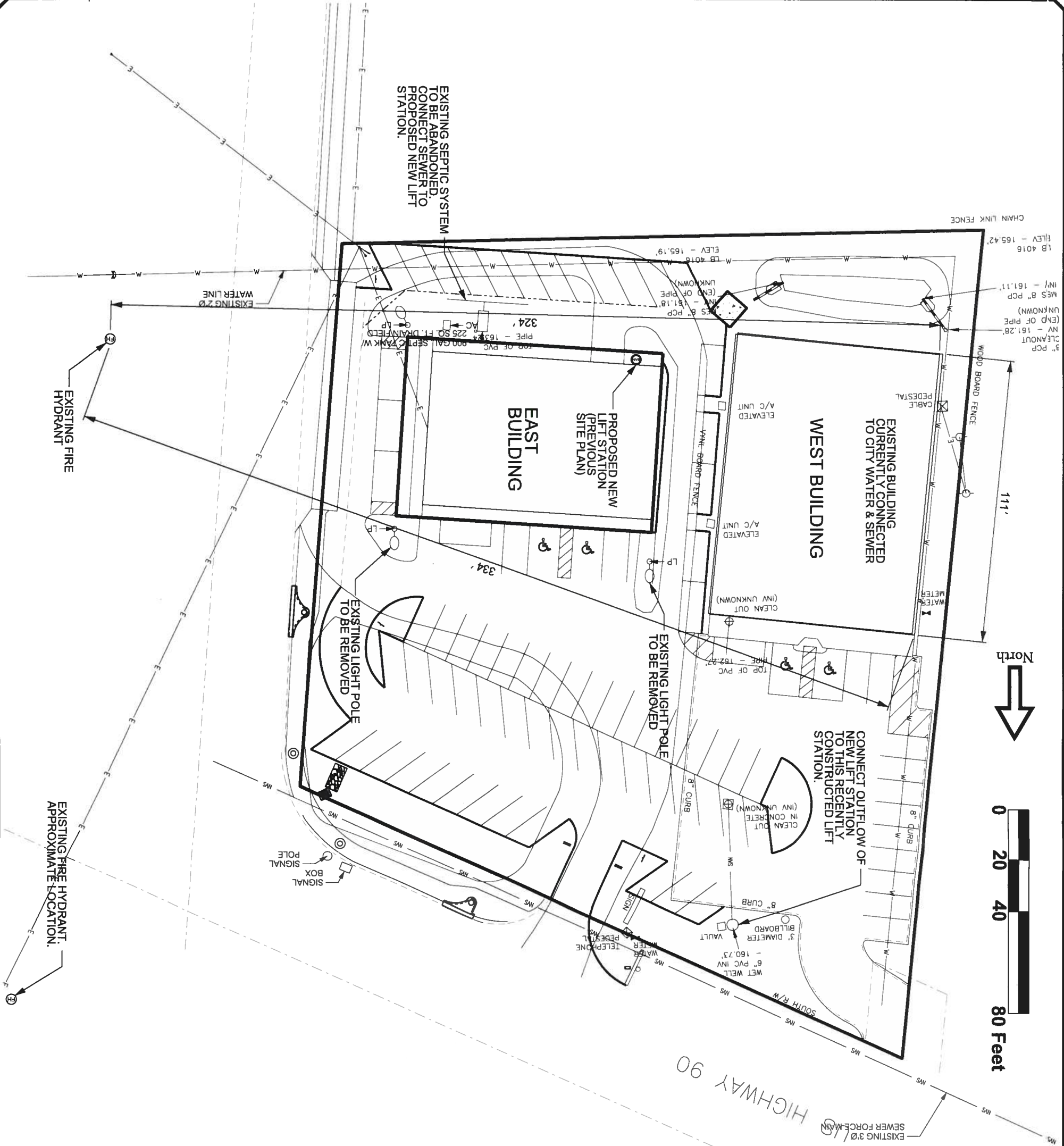
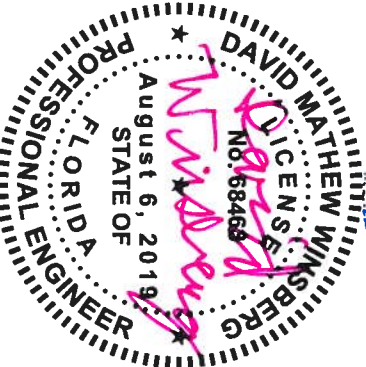
EXISTING FIRE HYDRANT.
APPROXIMATE LOCATION.

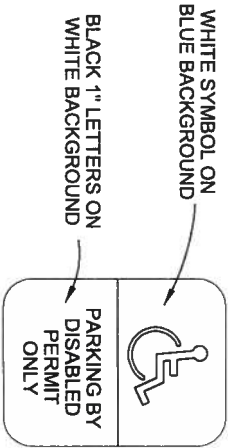
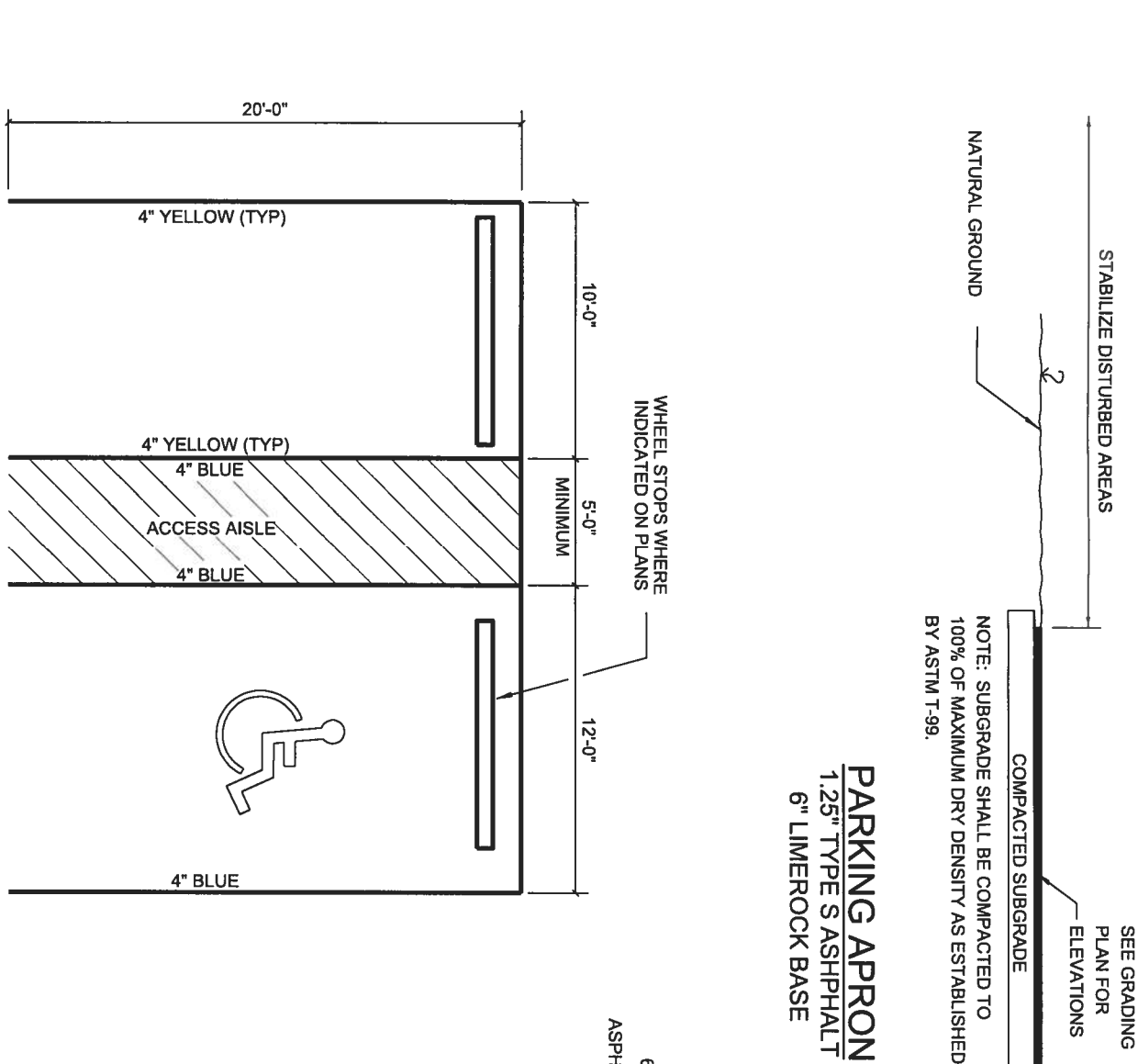
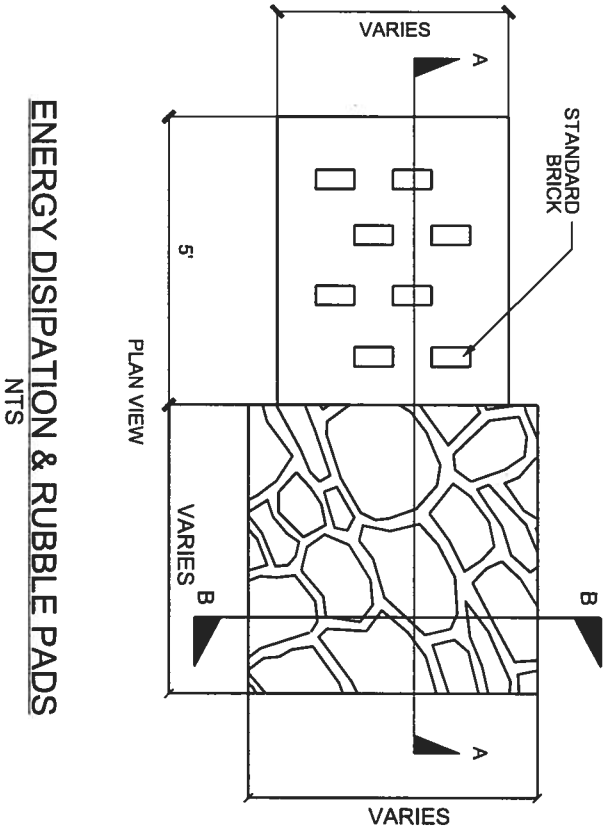
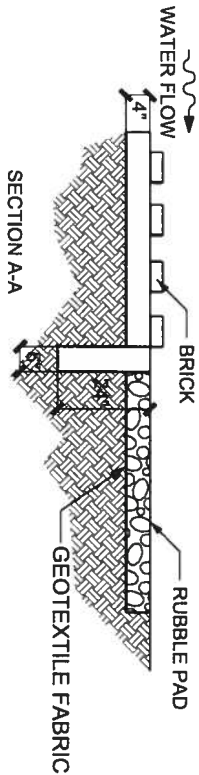
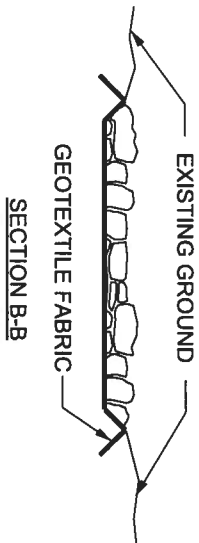
REQUIRED FIRE FLOWS - WEST BUILDING
FIRE FLOW RATE = 1,500 GPM
FIRE FLOW DURATION = 2 HOURS
REQUIRED FIRE FLOWS - EAST BUILDING
FIRE FLOW RATE = 1,500 GPM
FIRE FLOW DURATION = 2 HOURS

DISCLAIMER FOR FIRE PROTECTION DESIGN
CALCULATED FIRE FLOWS ASSUME
TYPE III(211) CONSTRUCTION WITH
NO SPRINKLER SYSTEMS, AND ARE
AS SPECIFIED IN THE NFPA FIRE CODE,
2012 EDITION, TABLE 18.4.5.1.2

FIRE FLOW CALCULATIONS, DESIGNS, OR
SPECIFICATIONS CREATED BY ANOTHER
QUALIFIED AND LICENSED STRUCTURAL
ENGINEER OR ARCHITECT WITH DETAILED
KNOWLEDGE OF THE BUILDING PLANS
AND BUILDING DESIGN OVERIDE THESE
FIRE PROTECTION SPECIFICATIONS

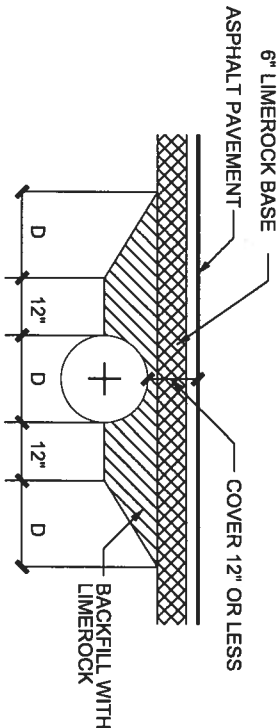
ALL WATER & SEWER
FOR BUILDINGS TO BE
CONNECTED TO CITY
WATER & SEWER SYSTEM



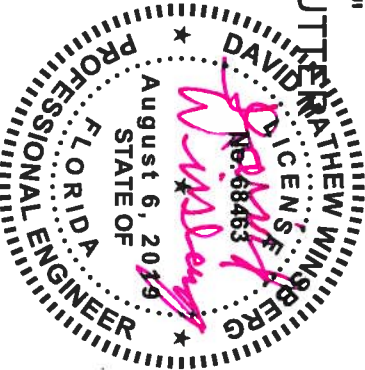
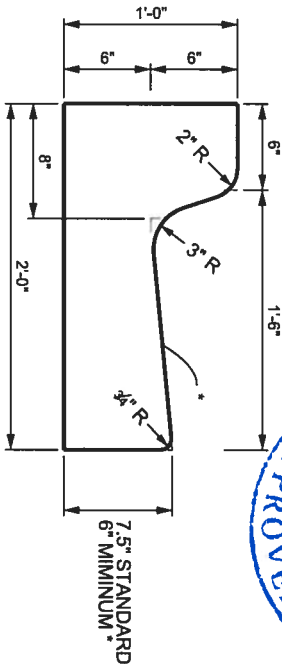


SIGN SHALL BE PLACED IN FRONT OF ALL DESIGNATED HANDICAPPED SPACES. SIGN HEIGHT SHALL BE 7' FROM PAVEMENT TO BOTTOM OF SIGN. 5' HANDICAPPED AISLE MAY BE PLACED ON THE RIGHT OR LEFT SIDE OF PARKING STALL. HANDICAPPED PARKING SYMBOL SHALL BE 3 OR 5 FT. HIGH AND BLUE IN COLOR. SEE SITE PLAN FOR ADDITIONAL PARKING STALL DIMENSIONS.

PARKING STALL DETAIL



BACKFILL DETAIL FOR PIPES WITH LESS THAN 12" COVER

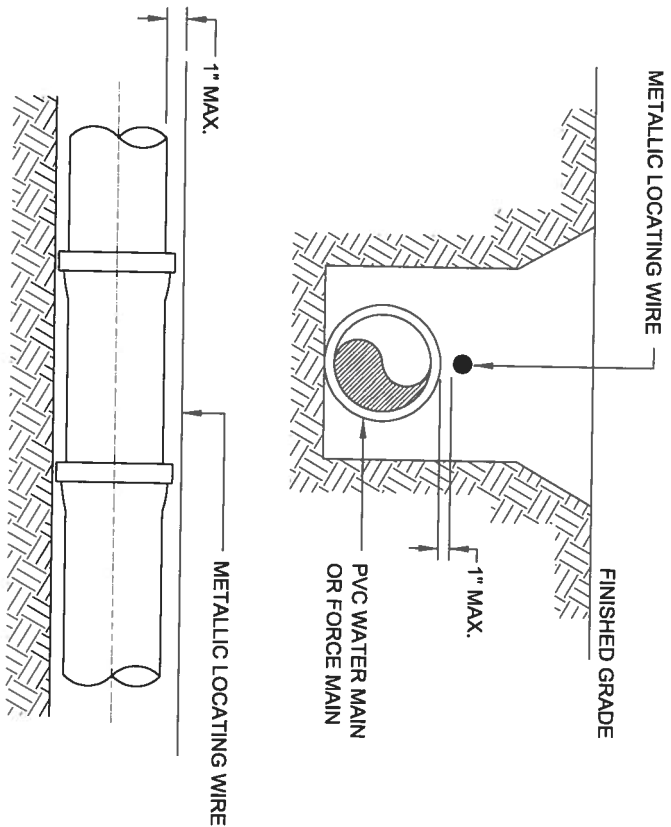


REVISION NOTES		DATE

David M. Winsberg Winsberg, Inc. P.O. Box 2815 Lake City FL, 32056 PE# 68463 - CA# 29596		For Permitting and Review. Not Final.	
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PROJECT #	1525	SHEET	9

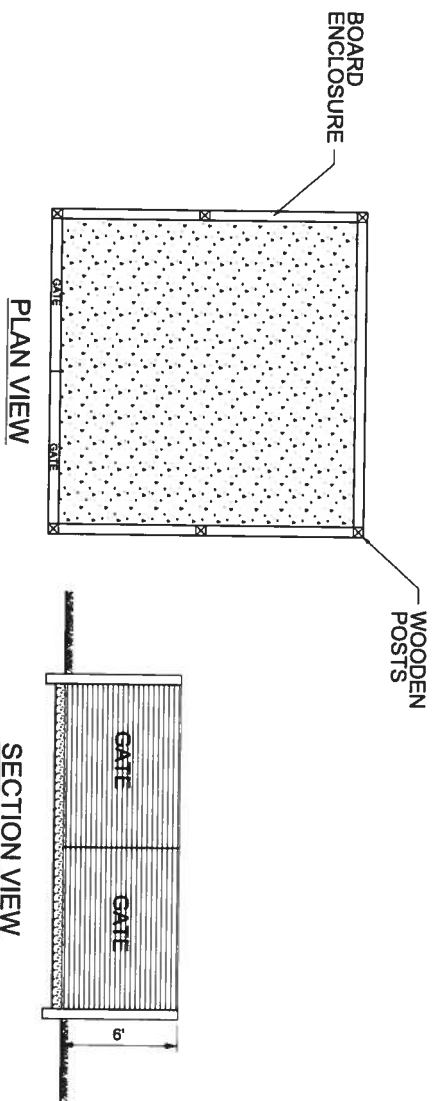
EMORY MEDICAL CENTER

MISCELLANEOUS DETAILS

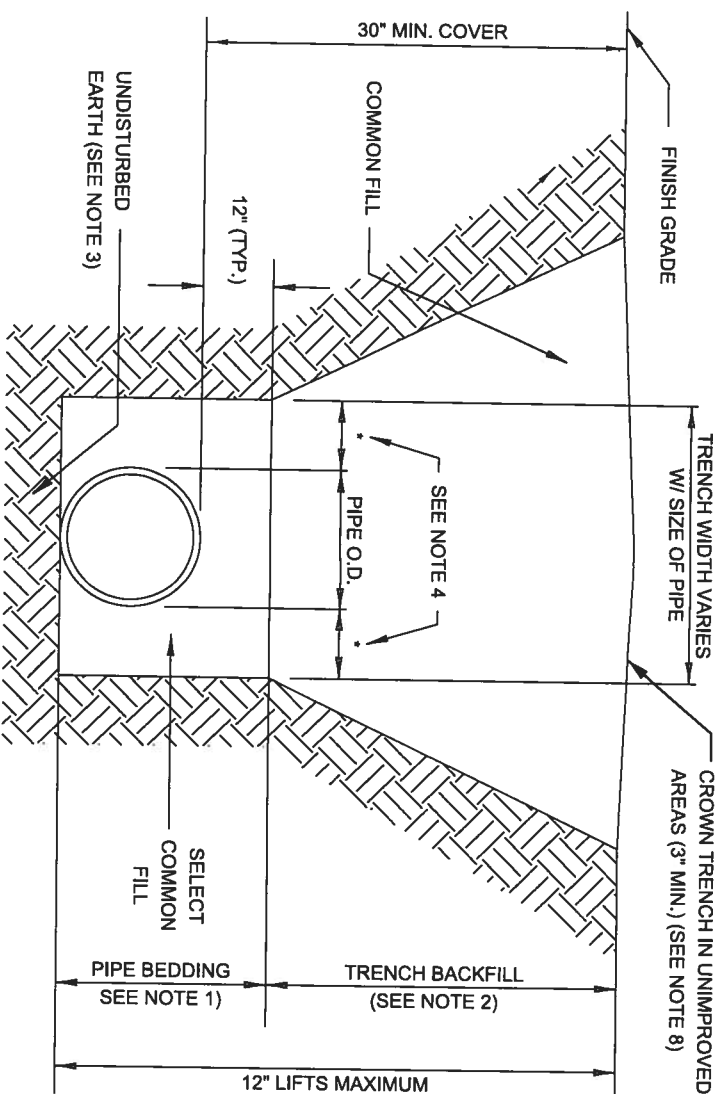


NOTES:
PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.

PVC PIPE LOCATING WIRE DETAIL

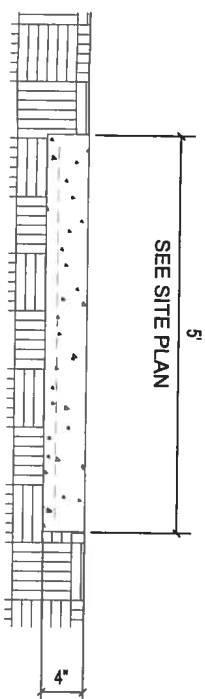


PROVIDE 1/8"-1/4" CONTRACTION JOINTS 10' CENTERS MAXIMUM.
DUMPSTER PAD DETAIL
2500 PSI CONCRETE W/ FIBER MESH



NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
4. (1) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROAD CONSTRUCTION SPECIFICATIONS.

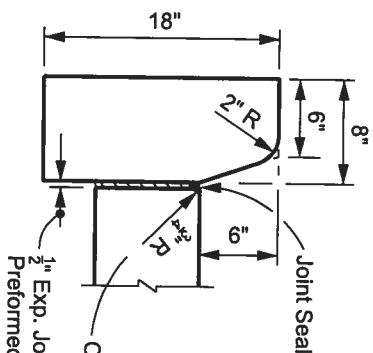
TRENCH AND BACKFILL DETAIL NTS



REINFORCED WITH 6x6x10/10 WMM. PROVIDE 1/8"-1/4" CONTRACTION JOINTS AT 10' CENTERS MAXIMUM.
STANDARD SIDEWALK DETAIL

For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, performed joint filler and joint seal are required between curbs and concrete pavement only, see FDOT Index #300.

TYPE "D" CURB



EMORY MEDICAL CENTER

MISCELLANEOUS DETAILS

DATE REVISION NOTES

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Winsberg, Inc.
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PROJECT # **1525** SHEET **10**