# DO IT YOURSELF LETT

WAREHOUSE BUILDING

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## SHEET INDEX

UTILITY NOTES
EXISTING CONDITIONS
SITE PLAN
GRADING PLAN
LANDSCAPING & UTILITY PLAN
MISCELLANEOUS DETAILS COVER SHEET LEGEND AND GENERAL NOTES

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Lake City FL, 32056 Phone: (386) 755-7449 Fax: (888)-522-0030

P.O. Box 2815

WINSBERG, INC.

# VICINITY MAP

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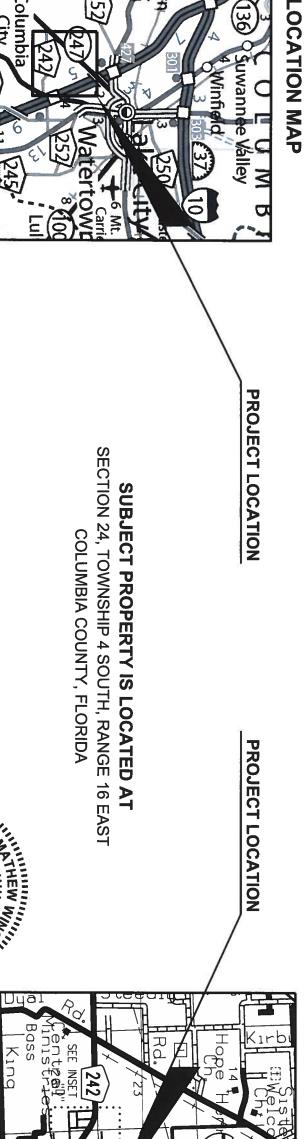
184 SW Ring Ct Lake City, FL 32025 Phone: (386)-466-9168

Brad Handy

DEVELOPER

TOPROVED

Do It Yourself Lettering Inc.



6 Miles

For Permitting - Columbia County 4th Submittal WINSBERG, INC. PROJECT NUMBER: 1862

May 22, 2019
STATE OF

1 Mile

King

35

Road

Grove

000

6

30

137

columbia

**252** 

## **GENERAL NOTES**

- 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.
- 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
- 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.
- Ġ 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 Donald F. Lee & Associates., Florida Certificate No. 7042
- 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.
- œ 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
- 9 All site construction shall be in accordance with the Columbia County Land Development Regulations.
- ö 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.
- are staked out.

  ) Final site compliance once all improvements are finalized.

- 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.
- <u>;</u> 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.
- <u>4</u>. Existing drainage structures within the construction limits shall be removed, unless otherwise specified in the plans.
- ij 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
- 6. 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.
- 17. Contractor shall contact SRWMD and the engineer of record 48 hours prior to beginning construction.

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# **EROSION CONTROL NOTES**

- 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 plans.
- 5 This project shall comply with all applicable water quality standards.
- ώ Sediment and erosion control measures and stormwater management facilities shall be installed prior to any other construction.
- 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.
- Sediment and erosion control measures shall not be removed until all construction is complete and a permanent ground cover has been established.
- **о** During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.

DATE

- All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
- Loaded haul trucks shall be covered with tarps and excess dirt removed daily
- 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.
- 5
- The retention basin(s) shall be constructed initially to serve as a sediment trap during construction.
- A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- All open drainage swales shall be grassed immediately and riprap shall be placed as required to control erosion.
- All disturbed areas shall be stabilized immediately to prevent erosion. All slopes greater then 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.
- 5. 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.
- 6 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.

IRON PIPE	₽	WATER TABLE	CORRUGATED STEEL PIPE	CORRUGA	000
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**REVISION NOTES** 

GROUND CONTOUR (EXISTING)	FLOW ARROW (SHEET)		HANDICAP PARKING	CONCRETE PAVEMENT	GRAVEL BOOK OR RIPRAP	TREE	VEGETATION OR LANDSCAPING +	SILT FENCE	FENCE	TOWER	SIGN & POST	LIGHT	ANCHOR PIN -	SHARED POWER POLE —	TELEPHONE POLE —(	POWER POLE —	SOIL BORING LOCATION (	BENCH MARK	IRON PIPE	CONCRETE MONUMENT	ITEM SYN
	GROUND CONTOUR (PROPOSED)	FLOW ARROW (GUTTER)	DITCH BLOCK	ENERGY DISSIPATION PAD	MITERED END SECTION	STORMWATER PIPE	STORMWATER DRAINAGE INLET	STORMWATER MANHOLE	SANITARY MANHOLE	SANITARY DOUBLE WATER SERVICE	SANITARY SINGLE WATER SERVICE	O DOUBLE WATER SERVICE	SINGLE WATER SERVICE	WATER TEE	O— WATER 90° BEND	FIRE HYDRANT	BACKFLOW PREVENTER	REDUCER	VALVE	METER OR CONTROLS	SYMBOL ITEM
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P.O. Box 2815 Winsberg, Inc. David M. Winsberg PE# 68463 - CA# 29596 \_ake City FL, 32056

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LEGEND AND GENERAL NOTES

DO IT YOURSELF LETTERING

**WAREHOUSE BUILDING** 

# **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.
- Ņ 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.
- ယ Contractor shall contact the City of Lake City (386.758.5492) prior to beginning work to coordinate inspection of utility connections.
- Existing water should remain in service during construction. The City of Lake City shall be notified in the event interruptions to service are required.
- Ġ 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.
- At high points where air can accumulate in new and relocated water mains hydrants or air release valves shall be provided to remove air.
- œ 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, blow-offs, meters, or other appurtenances provided in conjunction with new and relocated water mains shall not be connected directly

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- <u></u> 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 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) Permanent taps on each side of valve within the manhole to allow for sampling and insertion of a small meter to determine leakage.

- Proper backflow prevention shall be provided in accordance with rule 62-555.360 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 FDEP and other applicable standards.

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Contractor shall provide an as-built survey for water and sanitary sewer extensions.

- 16. 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.
- 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.

## AND FITTINGS

- <del>. \_</del> ... 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.

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# 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 F679, "Standard specifications for type PSM polyvinyl chloride sewer pipe 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 integrally formed bell joints.
- 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 PS21-70. 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-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.
- 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:

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- 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
- 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.
- Expansion joints: Pipe expansion joints shall be suitable for the applicable service with a minimum  ${\sf PSI}$  working pressure. 150
- Flanged coupling adapters: Units shall be compatible with ANSI standard B16.1, 125 LB. Flanges.

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- 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.
- 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. Tie straps and bolts shall be a corrosion resistant alloy steel.
- Tapping steeves: Units shall be of the mechanical joint type or fabricated steel type steeves for pressure connections 4 inches and larger. All pressure connections to asbestos cement pipe and size on size tap shall utilized mechanical joint steeves. <u>a</u>
- 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. Boits and nuts shall comply with ANSI/AWWA C-11/A.21.11. Sleeves shall be capable of withstanding a 200 PSI working pressure.
- Steel tapping sleeve: Sleeves shall be fabricated of minimum 3/8-inch carbon steel meeting ASTM A285, grade.
- ဂ 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 strend in alloy steel to ANSI/AWWA A, 27.11/C-111, Casket shall be vulcarized 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 8-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 Ebaa 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 series 1600 as manufactured by Ebaa 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) sets pressure = 150 psi, (3) Safety factor = 1.5, (4) Laving 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:
- 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.
- ٩ 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.
- Ģ 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 extending 5' past the back of curb (3 feet inside roadways shall be encased in 3" SCH 40 PVC City of Lake City limits).
- Anchoring tees, couplings, and bends shall be sed 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 unless otherwise labeled. min. 4" diameter PVC (SDR 35) at 1.00% min. slope
- Wastewater cleanout covers rated for traffic load bearing. with a square recess. located within pave Wastewater clean rement and sidewalks adjacent to paved areas shall be nout covers in other sidewalks/walkways shall be brass
- Manholes which are not installed under paverningrade, and a 10:1 slope to finished grade. ent shall have a rim elevation at least 6" above finished
- 0 Unless otherwise noted on the plans, the finishe above the lowest upstream manhole top. If this valve (BWV) is required on the customer side of ed floor elevations of buildings shall be a minimum of 6" s is infeasible, a wastewater service lateral backwater if the cleanout.
- ō When a potable or reclaimed water main, or a water transformer, a 20 ft. length of DIP shall be centered. No fittings or valves shall occur within 10 f clearance of 3 shall be maintained between the vastewater force main is routed within 10 ft. of an electric ared on the transformer with mechanical restraint at each ft. of the nearest edge of the transformer. A minimum a main and the transformer.



MINIMUM NUMBER OF RESTRAIN STRAIGHT PIPE EACH SIDE OF R NED JOINTS IN 20'

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	DEAD END	TEES (BRANCH)	11-1/4° BENDS	22-1/2° BENDS	45° BENDS	90° BENDS	-	CINTELLE
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2019 OF OR		6 4	W. O. D.	1/46 is	11177	2	20"	
William X		111	111					_

PROJECT #

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Winsberg, Inc. P.O. Box 2815

David M. Winsberg

PE# 68463 - CA# 29596

\_ake City FL, 32056

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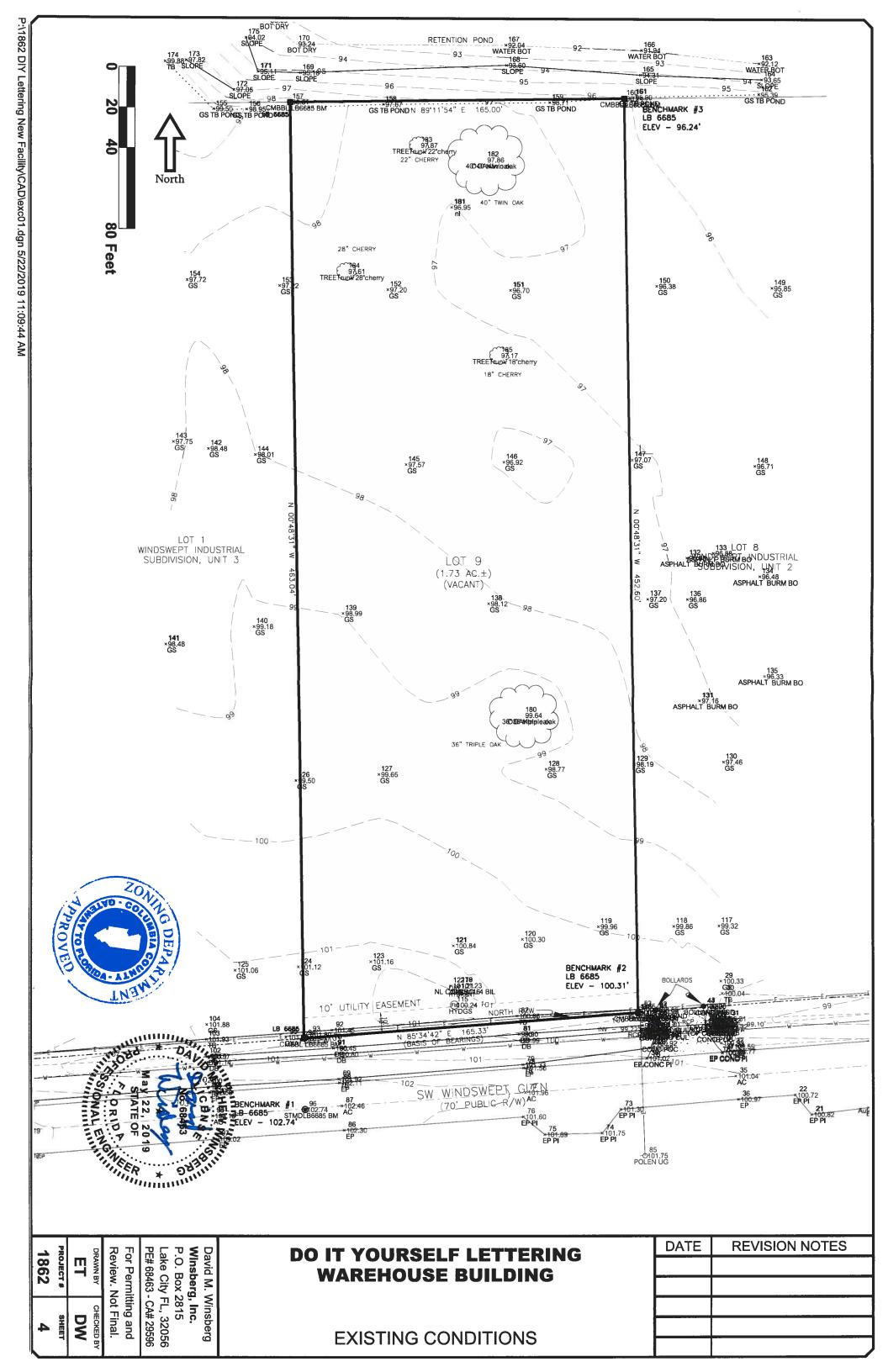
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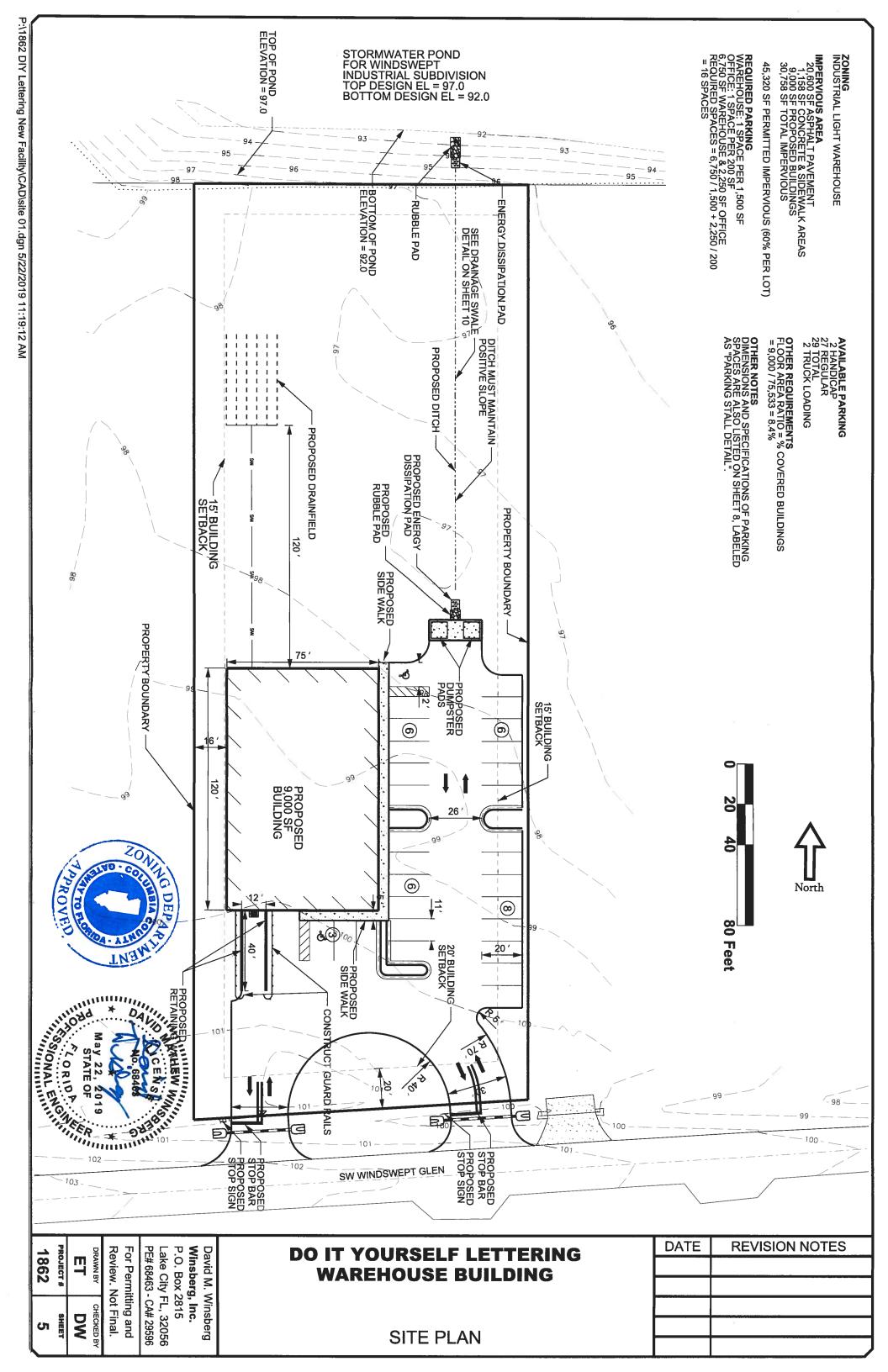
**REVISION NOTES** 

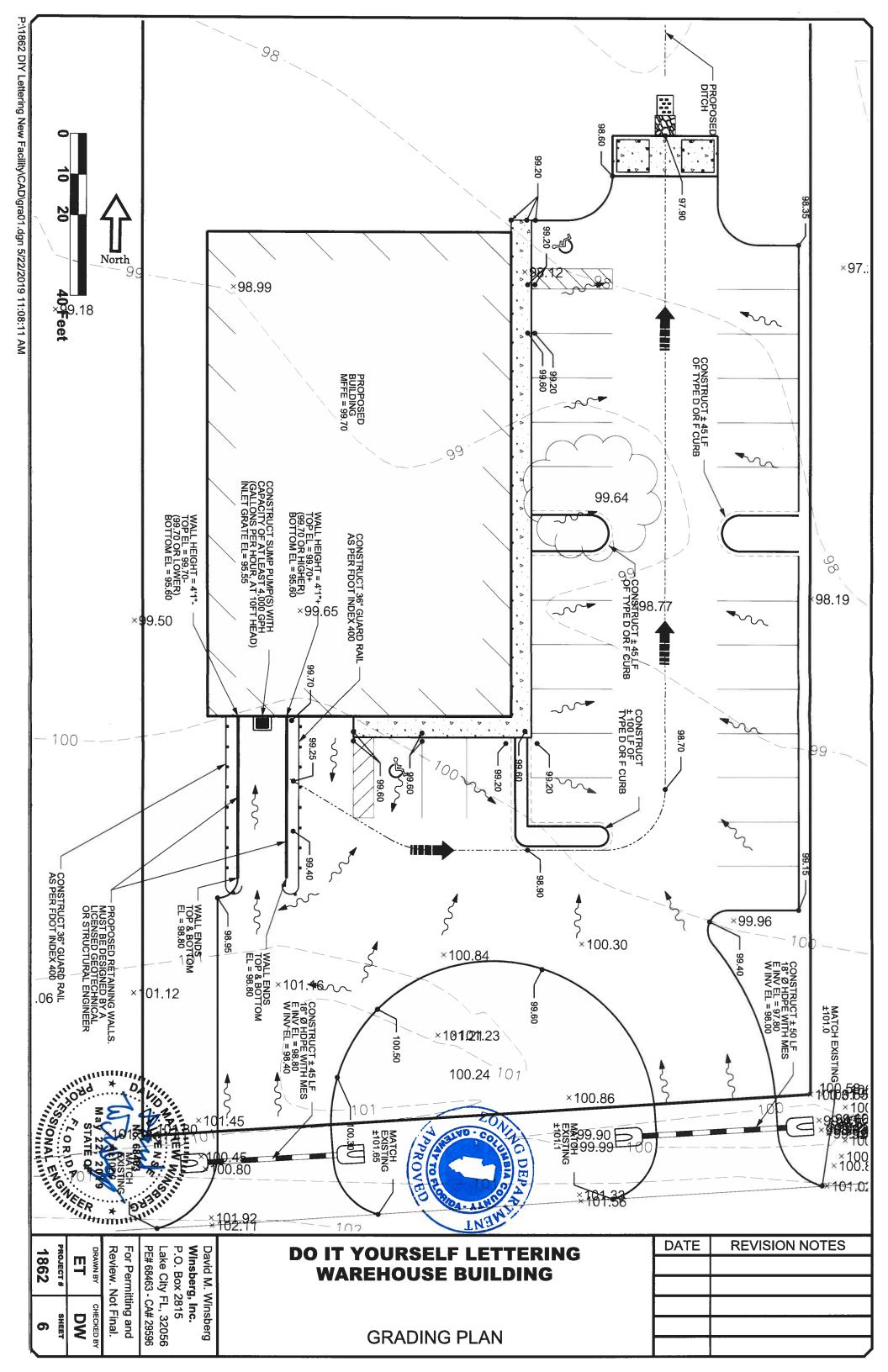
### **WAREHOUSE BUILDING**

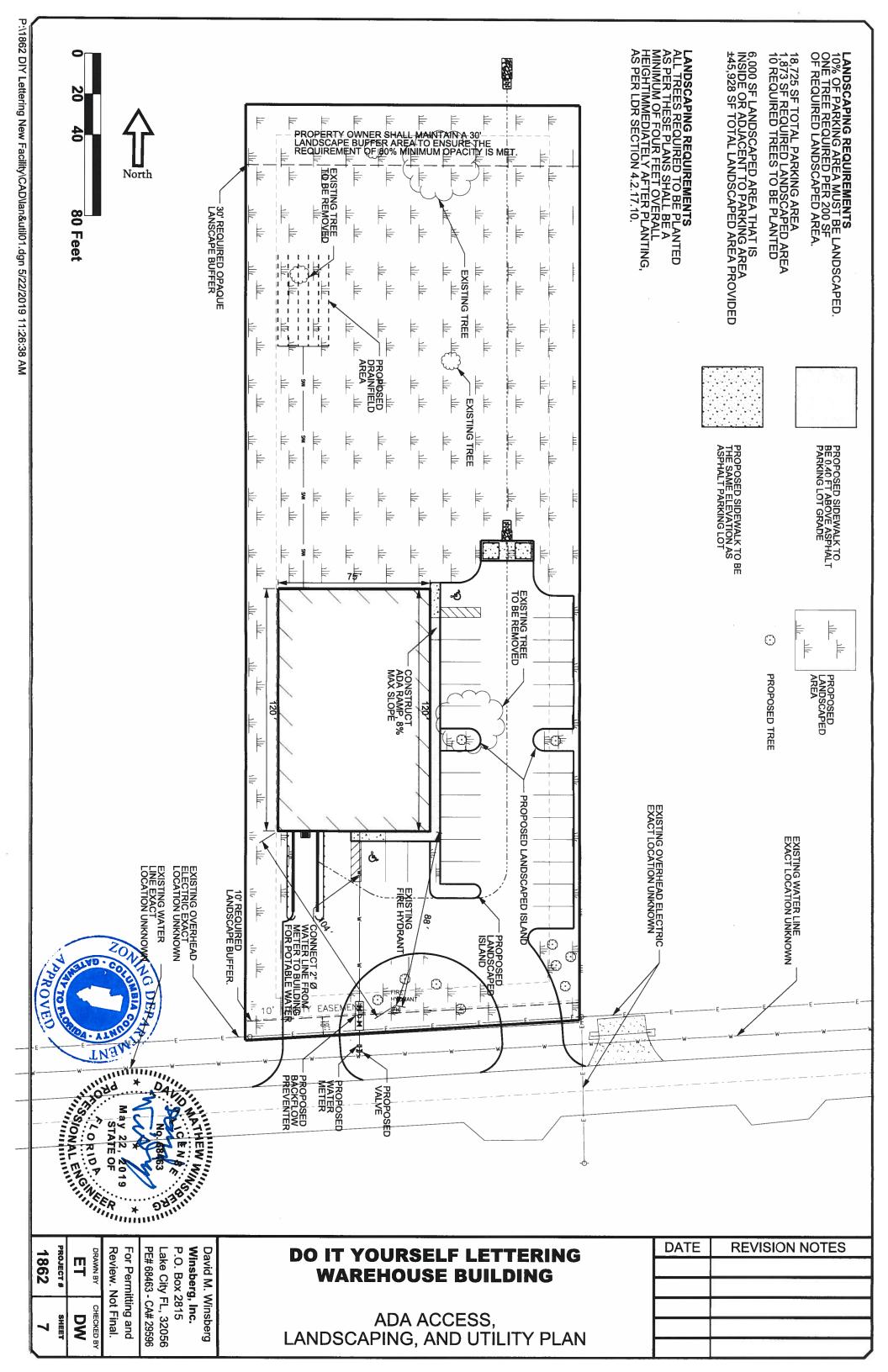
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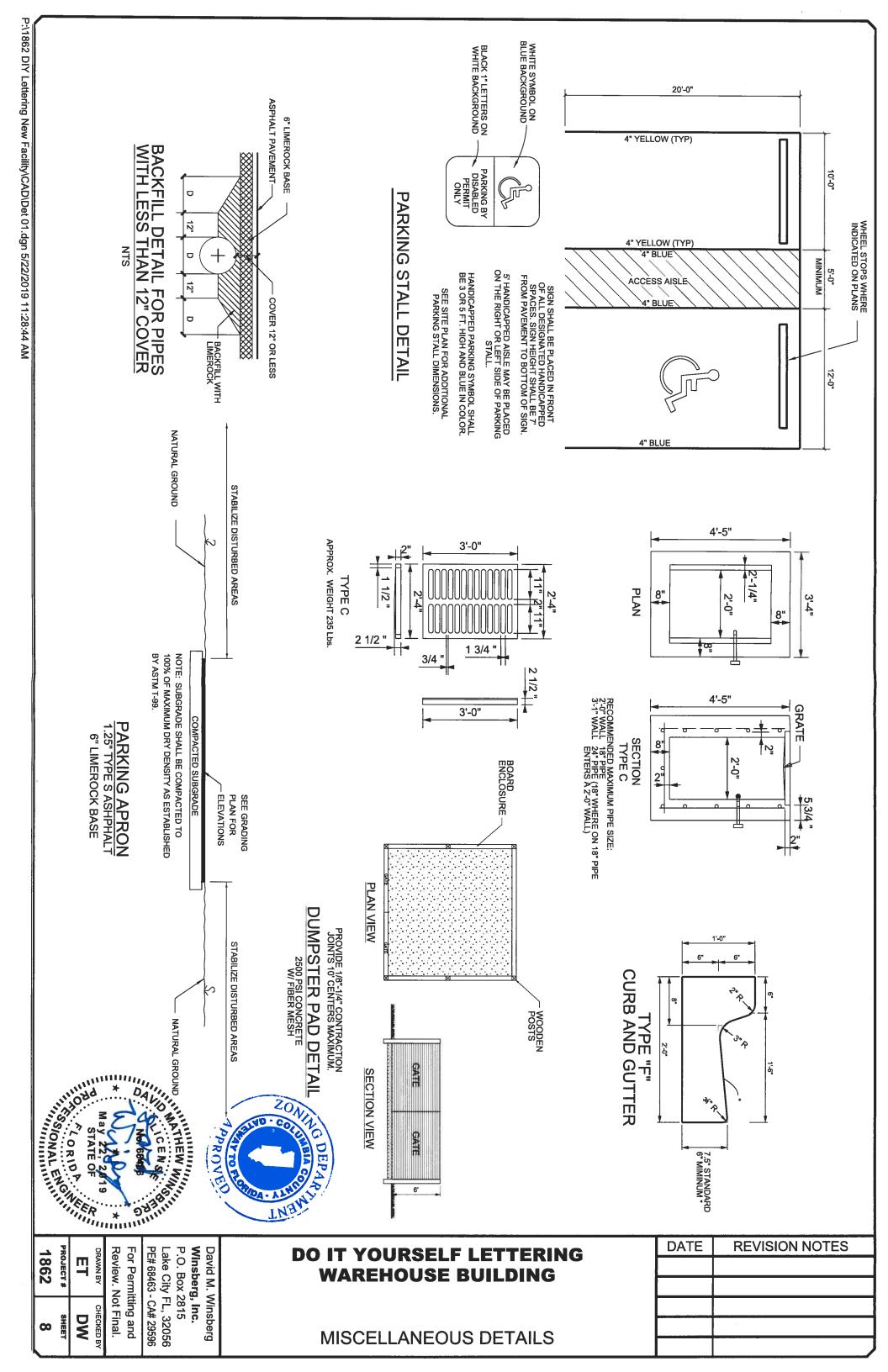
**UTILITY NOTES** 













NO PIPE JOINT PERMITTED

INLESS APPROVED BY THE ENGINEER

\* SLOPE: 4d MITER: TO C.L. PIPE FOR PIPES 16\* AND SMALLER.
2d FOR PIPES 24\* AND LARGER.
2d MITER: TO C.L. PIPE FOR PIPES 18\* AND SMALLER.
1d FOR PIPES 24\* AND LARGER.

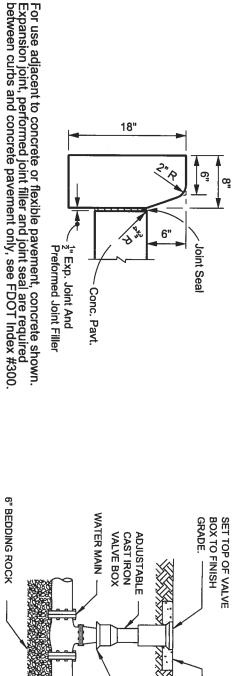
Shoulder Line Edge Of Pav't.

Sod all distrubed areas in County ROW Hatching denotes pavement shall be SP 12.5 or SP 9.5

R-1 36" x 36" = |Stop Sign —

#4 BAR

SIDE DITCH GRADE



BOX SHALL REST ON BEDDING ROCK NOT ON VALVE OR PIPE AND SHALL BE CENTERED ON OPERATING NUT

18"

6" ထ္

Joint Seal

CONCRETE VALVE COLLAR

# TYPE "D" CURB

SLOPE

5.59° 6.62°

BEVELED OR ROUND CORNERS

5'-0"

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DIMENSIONS AND QUANTITIES

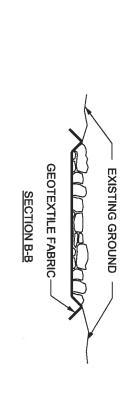
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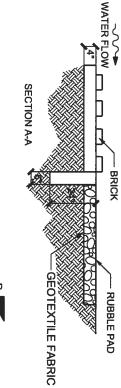


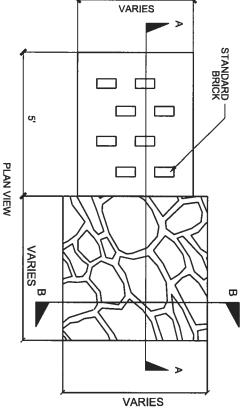
PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION
 THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

6" BEDDING ROCK

VALVE AND BOX DETAIL







# **ENERGY DISIPATION & RUBBLE PADS**



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ROJECT # 1862

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DW SHEET 9

David M. Winsberg

3" OR 5½" LEDGE OF PIPE FOR 5½"

GENERAL NOTES 1/

CONCRETE SLAB, 3" OR 5/1" THICK.
REINFORCED WITH WWF 6x6-W1.4

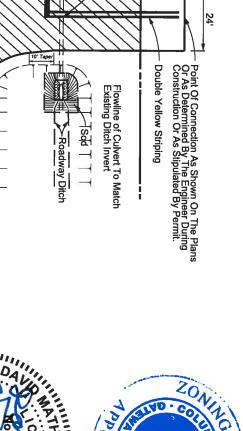
TOP VIEW - SINGLE PIPE SCALE: N.T.S.

12.6

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MISCELLANEOUS DETAILS

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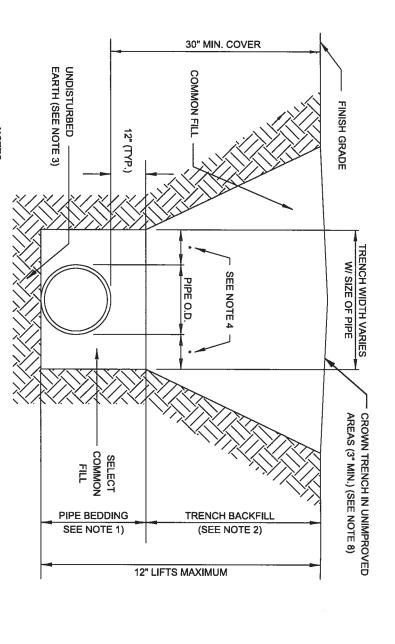


±70' OF 18" HDPE WITH MES-

24" Stop Bar-

R/W Line

Roadway Ditch



- 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 1-180.

  3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.

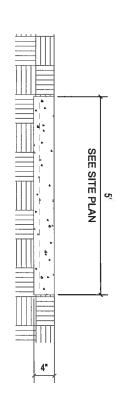
  4. (\*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 10 NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.

  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.

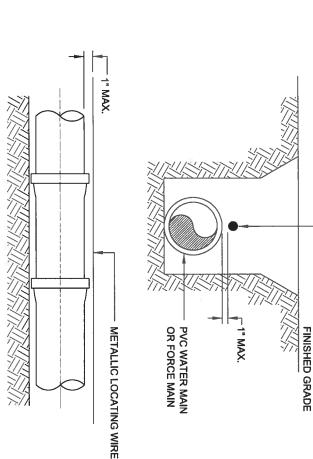
# TRENCH AND BACKFILL DETAIL



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

REINFORCED WITH 6x6x10/10 WWM.

# STANDARD SIDEWALK DETAIL



METALLIC LOCATING WIRE

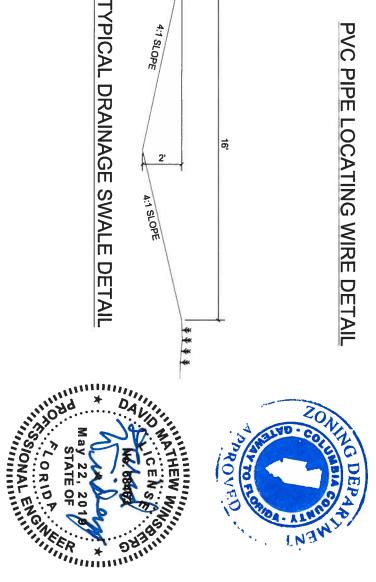
**REVISION NOTES** 

DATE

NOTES:

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

# PVC PIPE LOCATING WIRE DETAIL



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Winsberg, Inc. P.O. Box 2815 PE# 68463 - CA# 29596 \_ake City FL, 32056

Review. Not Final. For Permitting and

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PROJECT #

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MISCELLANEOUS DE L'AILS

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**DO IT YOURSELF LETTERING** 

**WAREHOUSE BUILDING**