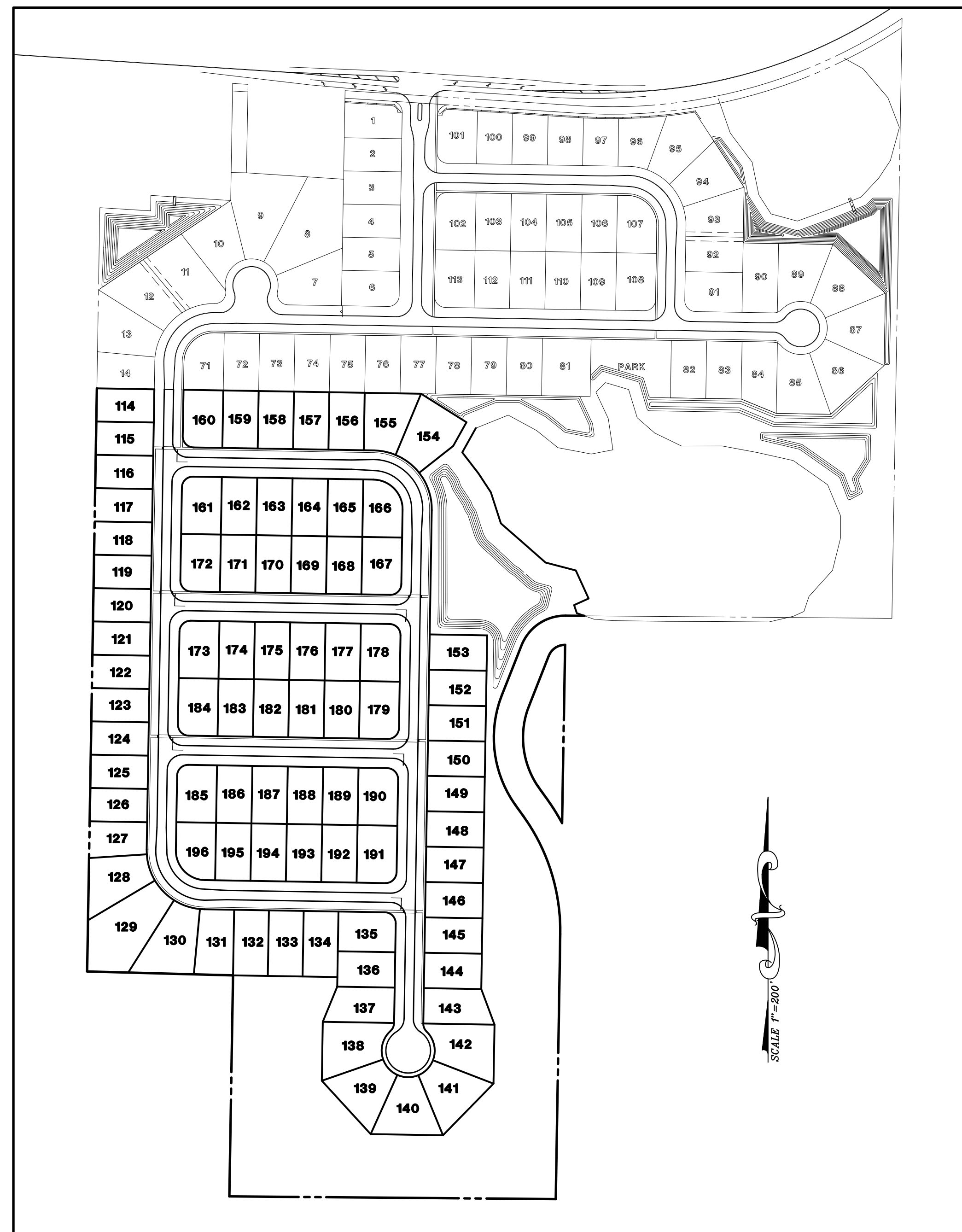


# MEADOW RIDGE PHASE 2

## LAKE COUNTY, FLORIDA

SHEET INDEX	
C1.1	COVER SHEET
C1.2	STORMWATER POLLUTION PREVENTION PLAN
C2.1	PRELIMINARY PLAT
C3.1-C3.2	GRADING & DRAINAGE PLAN
C4.1	UTILITY PLAN
C5.1-C5.3	DETAIL SHEETS
C6.1-C6.5	PLAN & PROFILE SHEETS
C7.1	SIGNAGE & STRIPING PLAN



**MASTER PLAN**  
SCALE: 1"=200'

### GENERAL NOTES

- BOUNDARY INFORMATION SHOWN IS PER DRAWING PREPARED BY MCGLOHORN LAND SURVEYOR, INC., DATED JUNE 30, 2003.
- CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER OR ARCHITECT.
- CONTRACTOR SHALL LOCATE AND MAINTAIN IN GOOD WORKING ORDER ALL ABOVE GROUND AND BELOW GROUND UTILITIES. CONTRACTOR SHALL COORDINATE THE RELOCATION OR ALTERATION OF EXISTING UTILITIES AS MAY BE REQUIRED.
- ALL ON-SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LAKE COUNTY PUBLIC SERVICES, FLORIDA BUILDING CODE, AND ALL OTHER APPLICABLE CODES. ALL FDOT RIGHT-OF-WAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.
- ALL DISTURBED OPEN AREAS SHALL BE SODED OR SEEDDED AND MULCHED IMMEDIATELY FOLLOWING COMPLETION OF THE BUILDING CONSTRUCTION AS SHOWN ELSEWHERE IN THESE PLANS.
- CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS-BUILT" CONDITIONS OF ACTUAL CONSTRUCTION. AS-BUILT DRAWINGS SHALL INCLUDE LATITUDE AND LONGITUDE COORDINATES FOR POTABLE WATER VALVES AND FIRE HYDRANTS TO WITHIN 2 FEET AND SHOWN ON THE AS-BUILT PLANS.
- CONSTRUCTION SURVEYING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO PAY COST OF WET TAPS INTO CITY OF EUSTIS WATER MAIN.
- ALL WATER LINE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF EUSTIS UTILITY CONSTRUCTION SPECIFICATIONS.
- ANY SOIL MATERIAL (EITHER ON-SITE OR IMPORTED) UTILIZED FOR THE CONSTRUCTION OF RETENTION SWALES OR RETENTION PONDS SHALL BE CLEAN FINE SAND (SP) AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM. FINES (MATERIAL PASSING THE NO. 200 SIEVE) SHALL BE LESS THAN 5%.

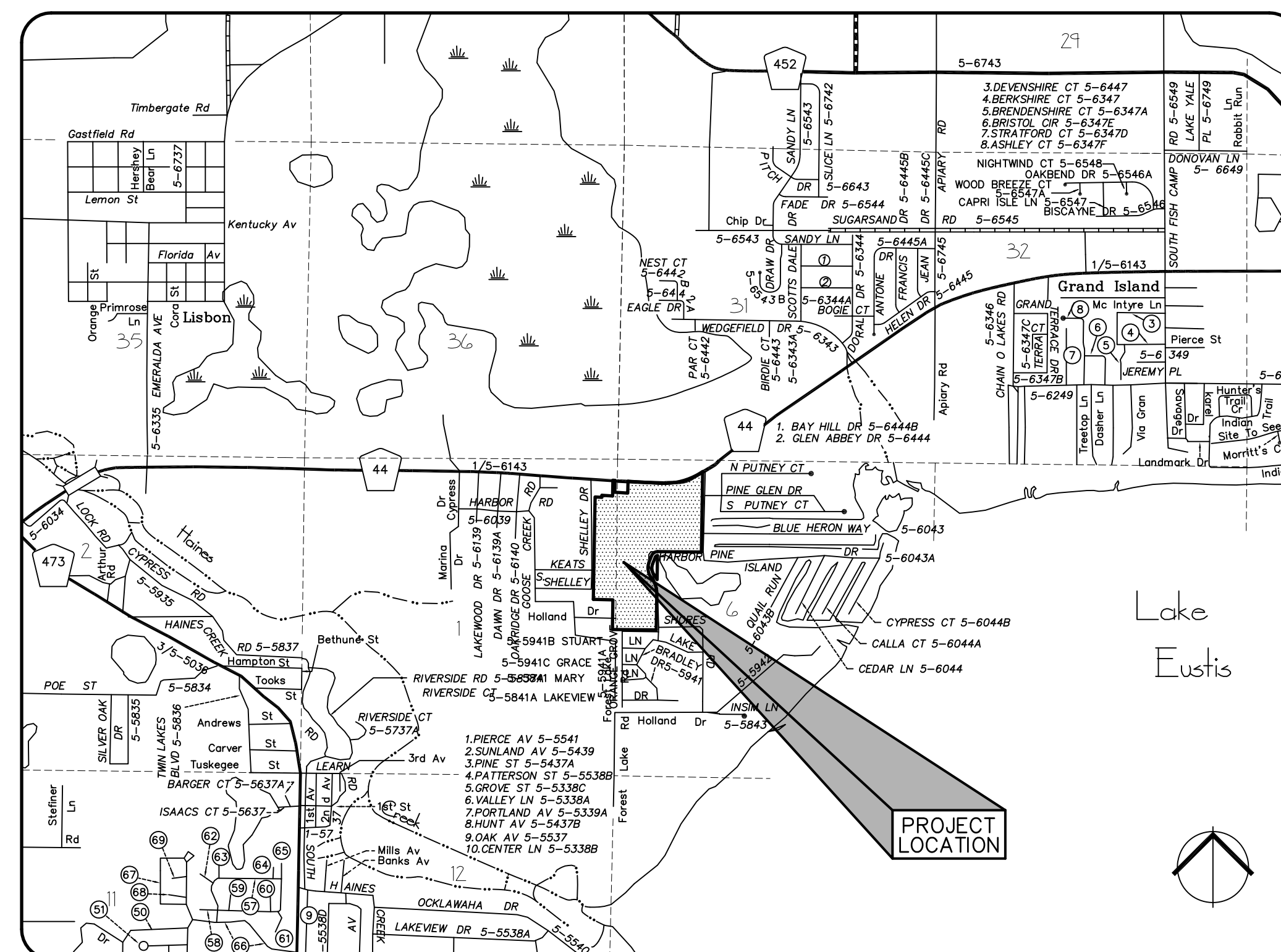
### LEGAL DESCRIPTION

THE SOUTH 3/4 OF THE SOUTHWEST 1/4 OF GOVERNMENT LOT 5 AND ALL OF GOVERNMENT LOT 4, PINE ISLAND GROVE SOUTH OF HIGHWAY NO. 44 LESS; BEGIN AT THE INTERSECTION OF THE SOUTH BOUNDARY OF HIGHWAY 44 AND THE WEST BOUNDARY OF ABOVE LOT, THENCE SOUTH 200 FEET, THENCE EAST 220 FEET, THENCE NORTH 200 FEET, THENCE WEST ALONG HIGHWAY TO POINT OF BEGINNING. ALL IN SECTION 6, TOWNSHIP 19 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA.

AND ALSO:  
THE EAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 25 EAST LYING SOUTH OF STATE ROAD HIGHWAY 44, LESS: BEGIN AT THE POINT OF INTERSECTION OF THE SOUTH RIGHT OF WAY LINE IN HIGHWAY 44 WITH THE WEST BOUNDARY OF THE EAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 1, RUN THENCE SOUTH 300 FEET, THENCE EAST 115 FEET, THENCE NORTH 35 FEET, THENCE EAST 170 FEET, MORE OR LESS, TO A POINT 35 FEET WEST OF THE EAST BOUNDARY OF THE EAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 1, RUN THENCE NORTH 265 FEET TO THE SOUTH BOUNDARY OF SAID HIGHWAY 44, THENCE WEST ALONG SAID HIGHWAY 295 FEET TO A POINT OF BEGINNING.

AND ALSO:  
THE NORTH 881.5 FEET OF THE EAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 25 EAST, (ALSO SOMETIMES BEING DESCRIBED AS BEING THE EAST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION, LESS THE SOUTH 500 FEET THEREOF), AND ALSO: THE NORTH 5/8 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6, TOWNSHIP 19 SOUTH, RANGE 26 EAST (ALSO SOMETIMES BEING DESCRIBED AS BEING THE NORTH 5/8 OF THE WEST 1/2 OF GOVERNMENT LOT 5 OF SAID SECTION), IN LAKE COUNTY, FLORIDA.

LESS AND EXCEPT: ALL OF MEADOW RIDGE OF GRAND ISLAND, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 59, PAGES 72 THROUGH 75, INCLUSIVE OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.



SECTION 1, TOWNSHIP 19 SOUTH, RANGE 25 EAST & SECTION 6, TOWNSHIP 19 SOUTH, RANGE 26 EAST  
**LOCATION MAP**

### PHASE 2 SITE DATA

PHASE 2 AREA = 1,646,866 sq.ft. (37.81 ac.)  
NUMBER OF PHASE 2 LOTS = 83 LOTS  
DENSITY = 2.20 UNITS / ACRE  
OPEN SPACE PROVIDED = 9.58 ac. (25.34%)  
MIN % OPEN SPACE = 25%  
ZONING = "R-4"  
FLOOD ZONE = "C" & "A"  
WATER - CITY OF EUSTIS  
SEWER - SEPTIC TANKS

### OWNER

*Jim Moyle, Land Development Manager*  
**LGI Homes-Florida, LLC**  
100 Ashley Drive, Suite #210  
Tampa, Florida 33602

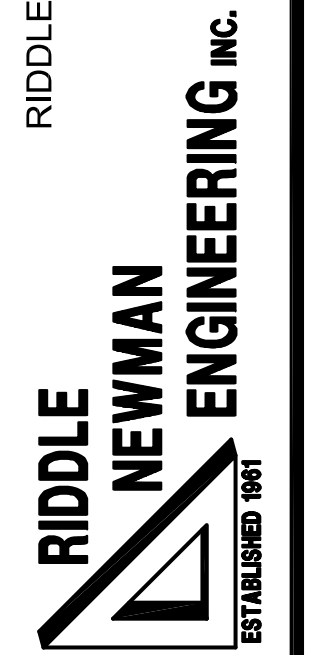
### ENGINEER

*Keith E. Riddle, P.E.*  
**Riddle - Newman Engineering, Inc.**  
115 North Canal Street  
Leesburg, Florida 34748  
Phone (352) 787-7482  
Fax (352) 787-7412

### SURVEYOR

*Tolbert T. McGlohorn*  
**Booth Ern Straughan Hiott, Inc.**  
902 North Sinclair Avenue  
Tavares, Florida 32778  
Phone (352) 343-8481  
Fax (352) 343-8495

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PHONE (352) 787-7482  
FAX (352) 787-7412  
keith@riddlenewman.com  
CA# 0002853



REV #	REV #	REV #	REV #

KEITH E. RIDDLE, P.E.  
FLA. REGIS. NO. 38800

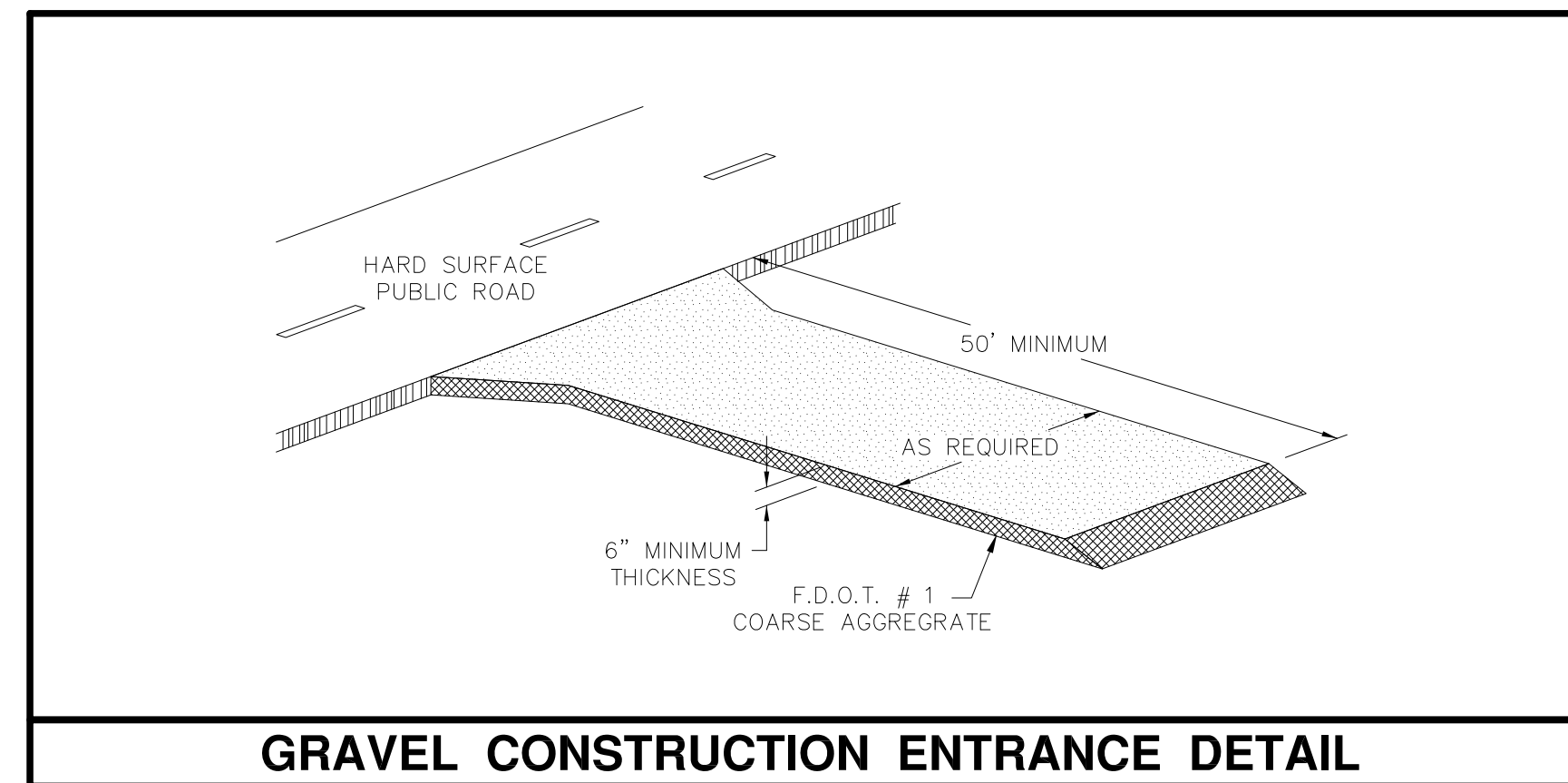
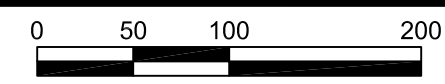
CONSTRUCTION PLANS  
**MEADOW RIDGE - PHASE 2**  
LAKE COUNTY  
FLORIDA

SHEET NO.  
**C1.1**



**STORMWATER POLLUTION PREVENTION PLAN**

SCALE: 1" = 100'

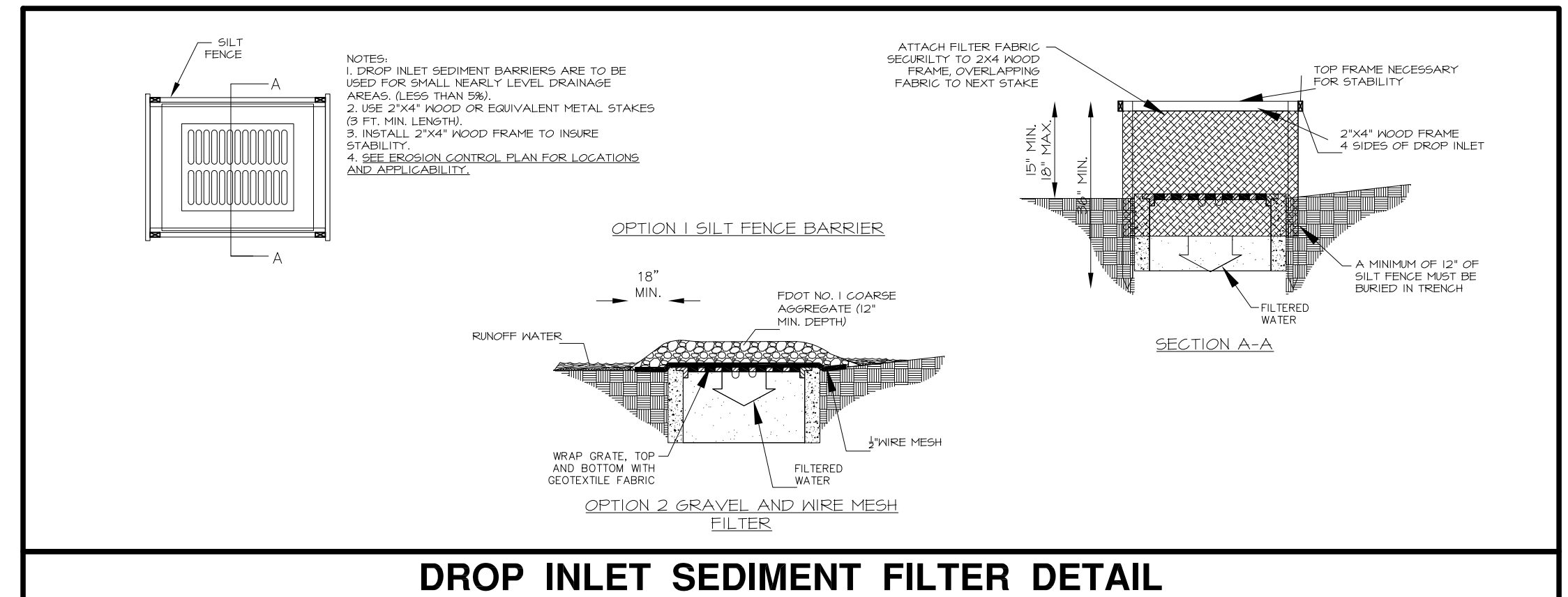


**GRAVEL CONSTRUCTION ENTRANCE DETAIL**

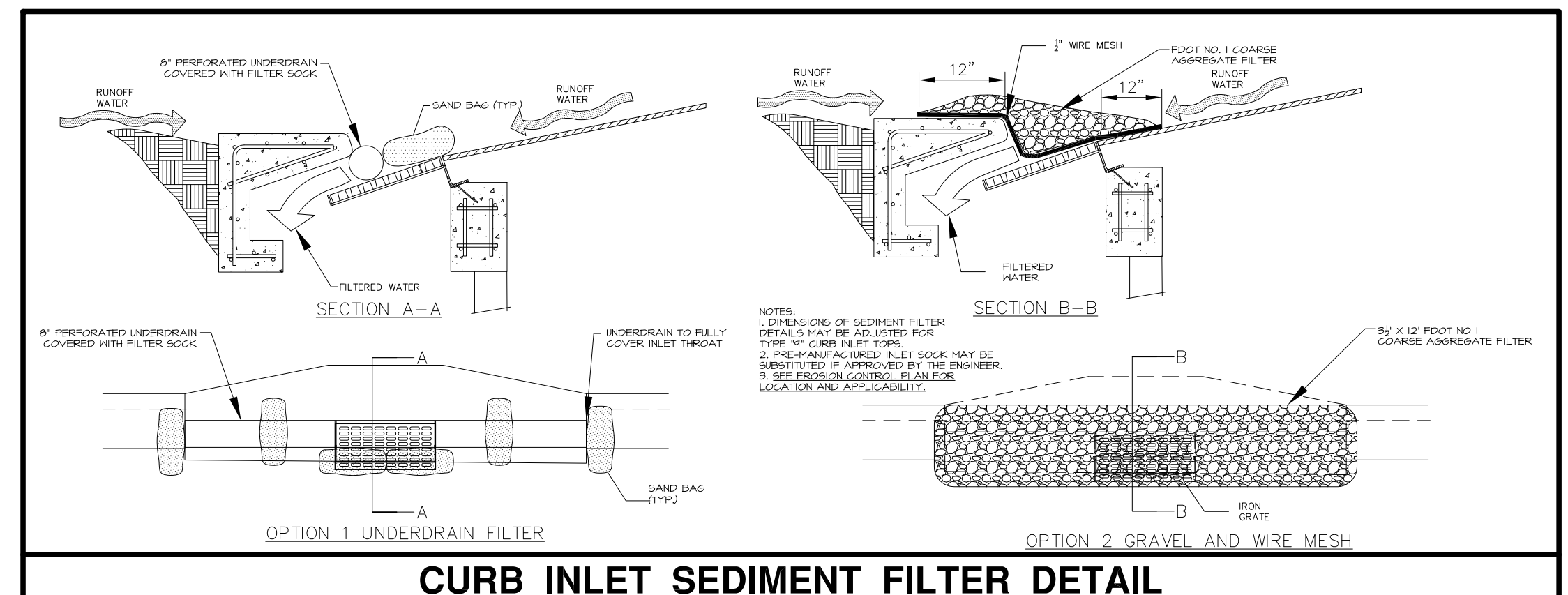
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH FDEP NPDES STORMWATER POLLUTION PREVENTION PLAN REQUIREMENTS.

CONTRACTOR TO INSTALL DROP INLET SEDIMENT FILTER ON ALL TYPE "F" INLETS.

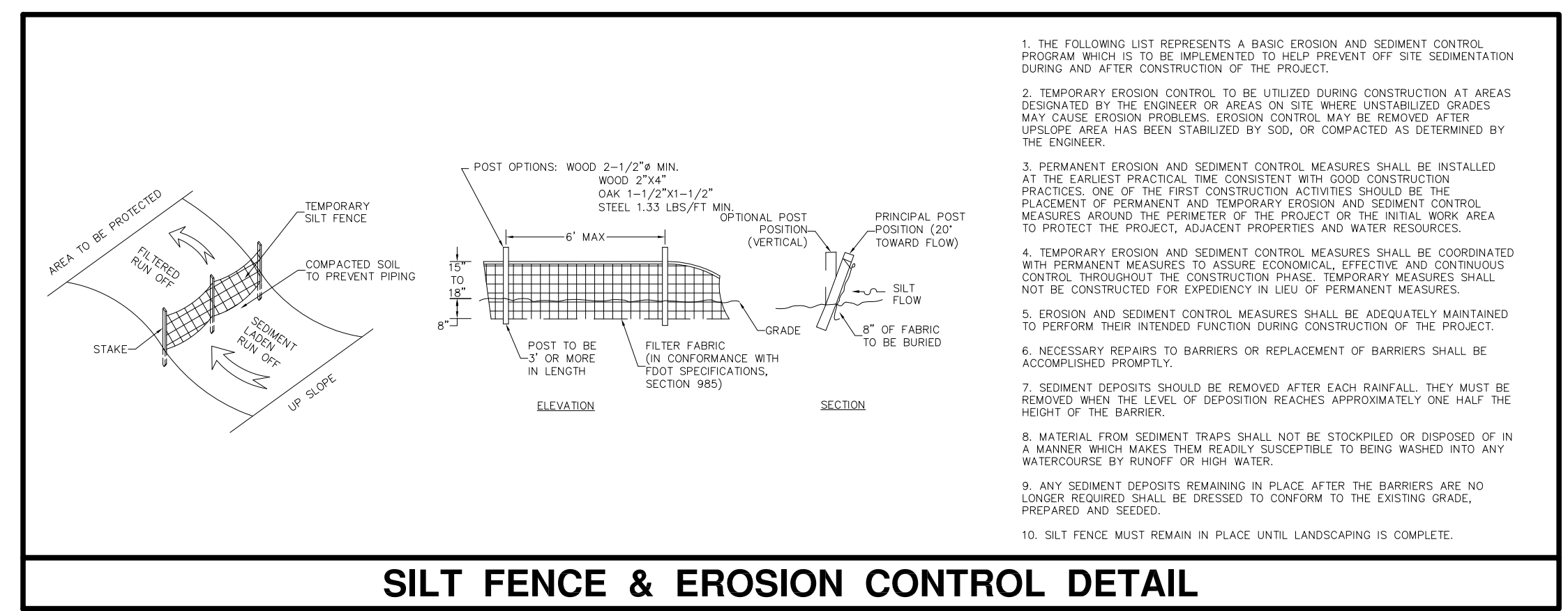
FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR HAY BALES, UNTIL LIMEROCK BASE IS FINISHED AND PRIMED.



**DROP INLET SEDIMENT FILTER DETAIL**



**CURB INLET SEDIMENT FILTER DETAIL**



**SILT FENCE & EROSION CONTROL DETAIL**

**NPDES Requirements**

- Federal Law prohibits all point source discharge of pollutants, which includes the discharge of stormwater associated with large (greater than 5 acres) construction activities or small (less than 5 acres and greater than 1 acre) construction activities, to waters of the United States without a National Pollutant Discharge Elimination System (NPDES) permit. Under the State of Florida's authority to administer the NPDES stormwater program, operators that have stormwater discharge associated with large or small construction activities to surface waters of the State, including through a Municipal Separate Storm Sewer System (MS4, i.e. Town, City or County), shall obtain coverage either under a Generic permit or an Individual permit.
- The owner will obtain the NPDES permit during the permitting process.
- The Contractor shall prepare the Storm Water Pollution Prevention Plan (SWPPP). Contractor may obtain information pertaining to the NPDES program online at [www.dep.state.fl.us/water/stormwater/npdes](http://www.dep.state.fl.us/water/stormwater/npdes). The Contractor shall be responsible for maintenance of the site in accordance with the SWPPP. The Contractor will be required to comply with all requirements of the SWPPP and have it posted on-site along with the Erosion Control Plan, the NPDES permit, and the completed Inspection Report Forms. The Contractor shall be responsible for all erosion control practices defined in the SWPPP and associated penalties for not complying with the NPDES requirements contained in the SWPPP and the NPDES permit. The cost of all compliance related activities shall be included in the bid submitted by the Contractor.
- The NPDES permit requires at least weekly inspections of the site and inspections within 24 hours following any rainfall event exceeding 0.5" inches. The Contractor is responsible for the weekly inspections and post-rainfall event inspections and these inspections are required to be made by a "Qualified" inspector. These inspections must document compliance with the permit and the SWPPP and the inspector shall complete the Stormwater Pollution Prevention Plan Inspection Report Form. The Contractor can obtain a sample copy of the Inspection Report Form from the Engineer. The Contractor can contact the FDEP at (850) 245-7522 for additional information on qualified inspectors or additional information on the NPDES requirements.

**NPDES REQUIREMENTS**

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 PHONE (352) 787-7482  
 FAX (352) 787-7412  
 keith@riddlenewman.com  
 CA# 00002883

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 ESTABLISHED 1971

REV #	REV #	REV #	REV #	REV #

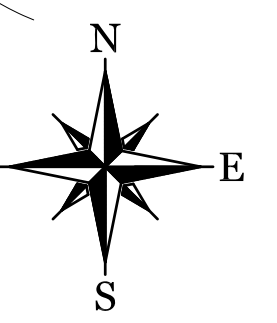
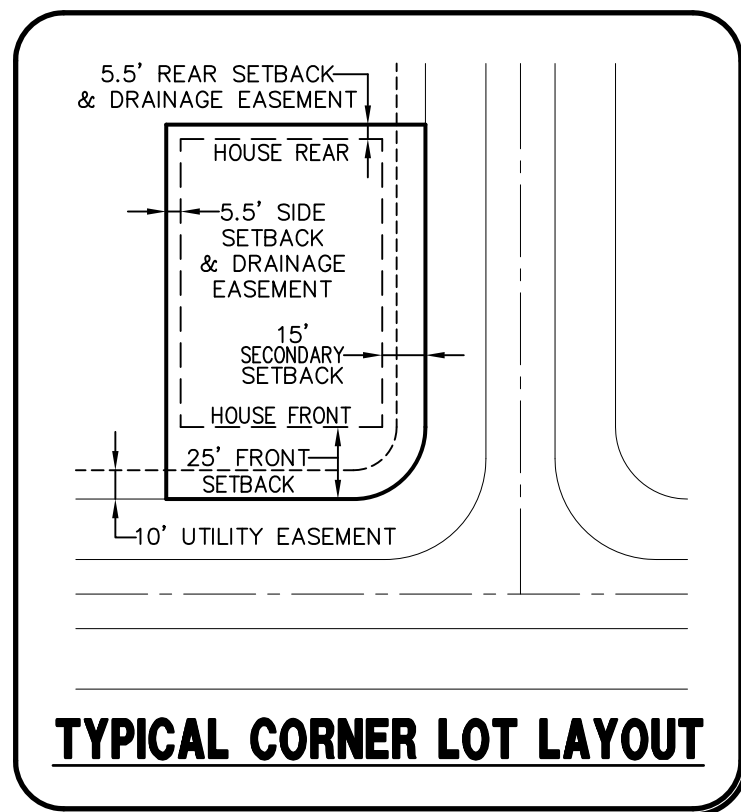
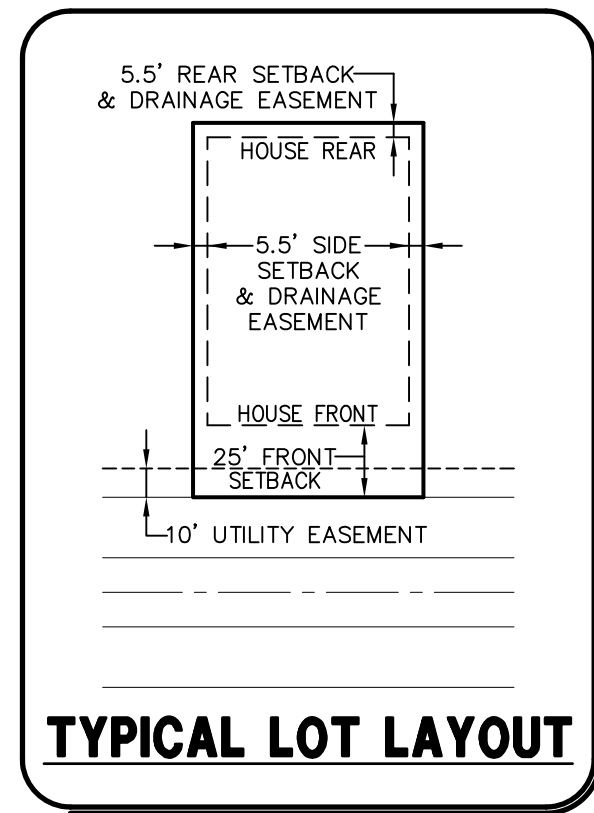
KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

DRAWN: R.S.H.  
 CHECKED: K.E.R.  
 SCALE: 1" = 100'  
 DATE: 11/14/18  
 PROJECT NO: 18.07-004

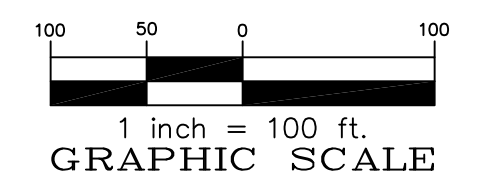
**STORMWATER POLLUTION PREVENTION PLAN**  
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO.  
**C1.2**

FILE: \18.07-004-Meadow Ridge Phase 2 © 2018 RIDDLE - NEWMAN ENGINEERING, INC. ALL RIGHTS RESERVED.



**PRELIMINARY PLAT**  
SCALE: 1"=100'



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PRELIMINARY PLAT

**MEADOW RIDGE - PHASE 2**  
LAKE COUNTY FLORIDA

SHEET NO. **C2.1**

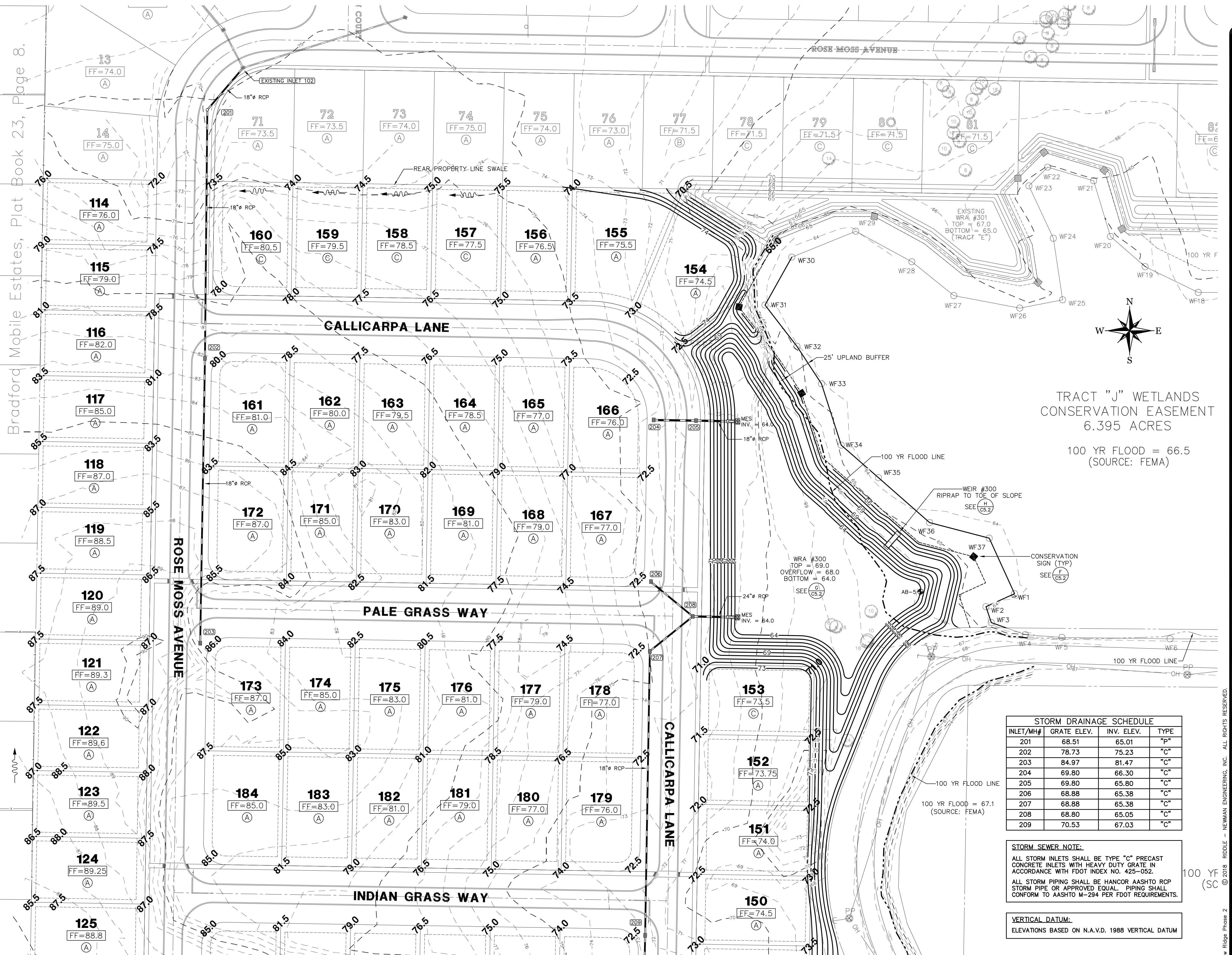
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 CHECKED: K.E.R.  
 SCALE: 1"=100'  
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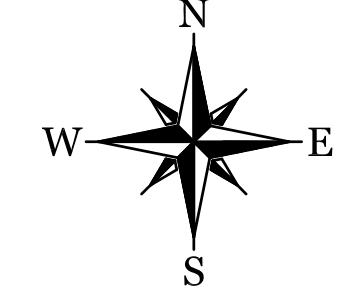
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 FLA. REGIS. NO. 38800  
 REV # 1/23/19

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TRACT "J" WETLANDS  
CONSERVATION EASEMENT  
6.395 ACRES  
  
100 YR FLOOD = 66.5  
(SOURCE: FEMA)



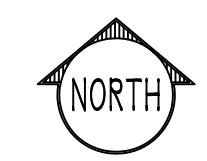
STORM DRAINAGE SCHEDULE			
INLET/MH#	GRATE ELEV.	INV. ELEV.	TYPE
201	68.51	65.01	"P"
202	78.73	75.23	"C"
203	84.97	81.47	"C"
204	69.80	66.30	"C"
205	69.80	65.80	"C"
206	68.88	65.38	"C"
207	68.88	65.38	"C"
208	68.80	65.05	"C"
209	70.53	67.03	"C"

**STORM SEWER NOTE:**  
ALL STORM INLETS SHALL BE TYPE "C" PRECAST CONCRETE INLETS WITH HEAVY DUTY GRATE IN ACCORDANCE WITH FDOT INDEX NO. 425-052.  
ALL STORM PIPING SHALL BE HANCOR AASHTO RCP STORM PIPE OR APPROVED EQUAL. PIPING SHALL CONFORM TO AASHTO M-294 PER FDOT REQUIREMENTS.

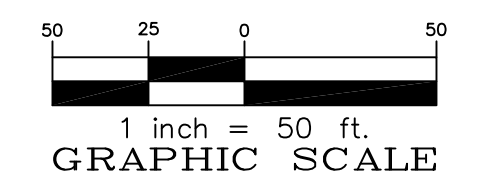
**VERTICAL DATUM:**  
ELEVATIONS BASED ON N.A.V.D. 1988 VERTICAL DATUM

100 YR FLOOD (SC)

MATCH LINE - SEE SHEET C3.2



**GRADING & DRAINAGE PLAN**  
SCALE: 1"=50'



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 keith@riddlenewman.com  
 CA# 0002883  
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**RIDDLE NEWMAN ENGINEERING INC.**

REV # 1  
 REV # 2  
 REV # 3  
 REV # 4  
 REV # 5

DRAWN: R.S.H.  
 CHECKED: K.E.R.  
 SCALE: 1"=50'  
 DATE: 11/14/18  
 PROJECT NO: 18.07-004

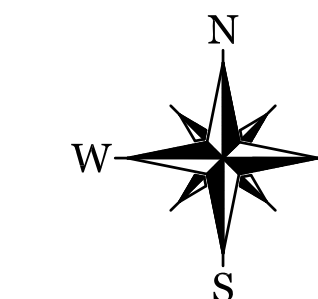
KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

GRADING & DRAINAGE PLAN  
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO.  
**C3.1**

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 1/23/19

MATCH LINE - SEE SHEET C3.1



STORM DRAINAGE SCHEDULE			
INLET/MH#	GRATE ELEV.	INV. ELEV.	TYPE
210	75.70	72.20	"C"

**STORM SEWER NOTE:**  
 ALL STORM INLETS SHALL BE TYPE "C" PRECAST CONCRETE INLETS WITH HEAVY DUTY GRATE IN ACCORDANCE WITH FDOT INDEX NO. 425-052.  
 ALL STORM PIPING SHALL BE HANCOX AASHTO RCP STORM PIPE OR APPROVED EQUAL. PIPING SHALL CONFORM TO AASHTO M-294 PER FDOT REQUIREMENTS.

**VERTICAL DATUM:**  
 ELEVATIONS BASED ON N.A.V.D. 1988 VERTICAL DATUM

New Bradford Mobile Estates, Plat Book 27, Page 22.

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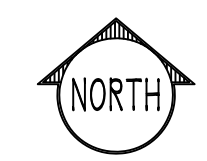
WRA

ROSE MOSS AVENUE

Lake Eustis Village, Plat Book 17, Page 20.

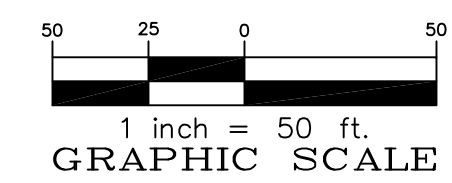
Grove Lane

Place



# GRADING & DRAINAGE PLAN

SCALE: 1"=50'



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 keith@riddlenewman.com  
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**RIDDLE NEWMAN ENGINEERING INC.**  
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REV #	REV #	REV #	REV #	REV #

KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

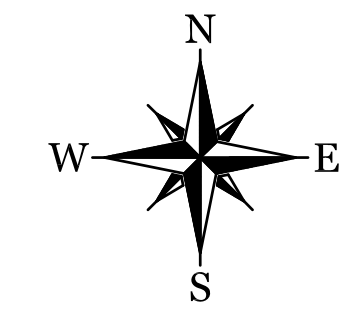
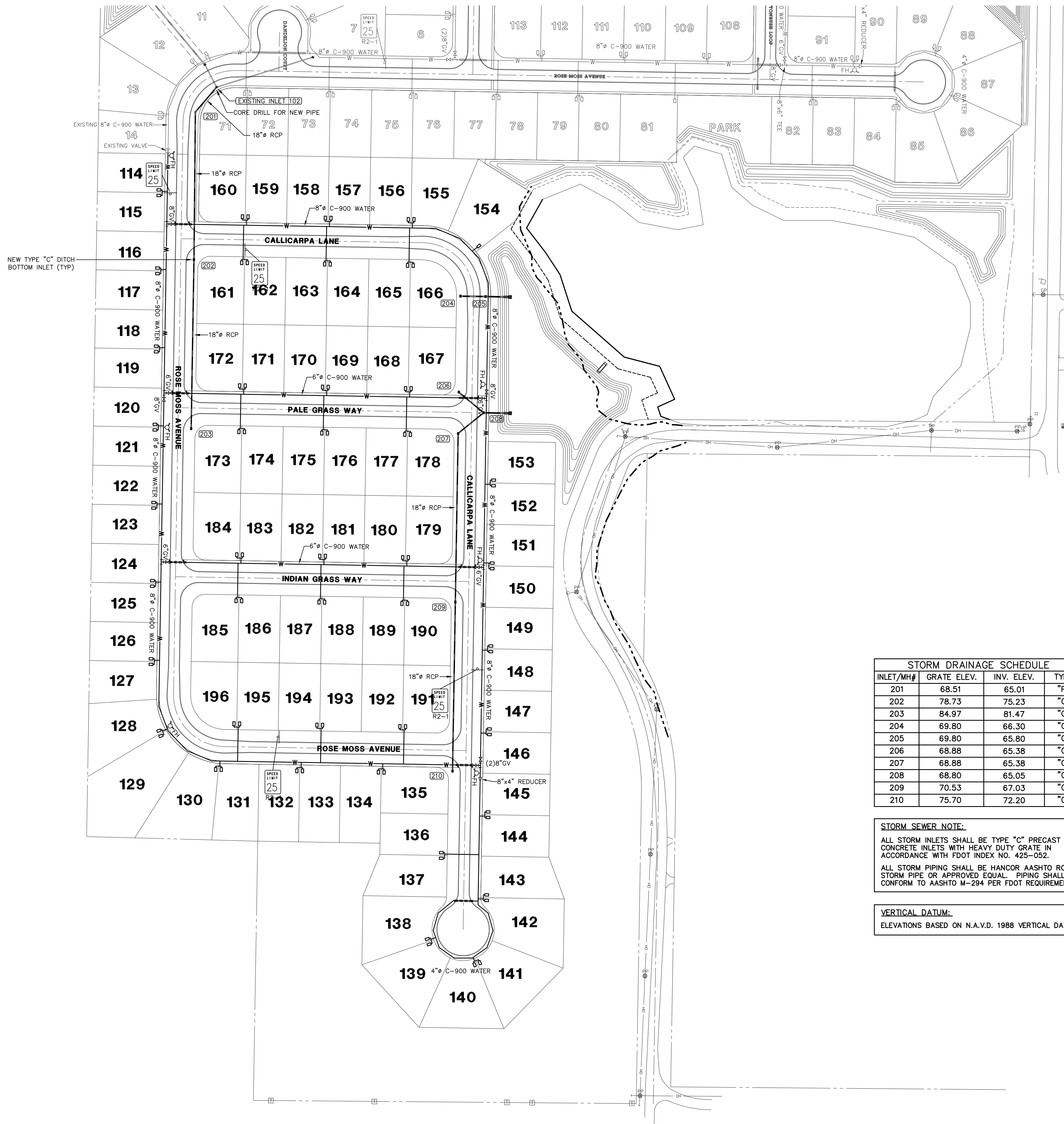
PROJECT NO. 18.07-004  
 REV # 1/23/19  
 REVISED PER LAKE COUNTY

DRAWN: R.S.H.  
 CHECKED: K.E.R.  
 SCALE: 1"=50'  
 DATE: 11/14/18  
 PROJECT NO. 18.07-004

GRADING & DRAINAGE PLAN  
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO.  
**C3.2**

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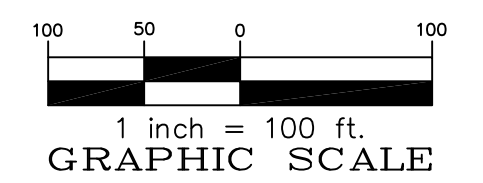


STORM DRAINAGE SCHEDULE			
INLET/MH#	GRATE ELEV.	INV. ELEV.	TYPE
201	68.51	65.01	"P"
202	78.73	75.23	"C"
203	84.97	81.47	"C"
204	69.80	66.30	"C"
205	69.80	65.80	"C"
206	68.88	65.38	"C"
207	68.88	65.38	"C"
208	68.80	65.05	"C"
209	70.53	67.03	"C"
210	75.70	72.20	"C"

**STORM SEWER NOTE:**  
 ALL STORM INLETS SHALL BE TYPE "C" PRECAST CONCRETE INLETS WITH HEAVY DUTY GRATE IN ACCORDANCE WITH FDOT INDEX NO. 425-052.  
 ALL STORM PIPING SHALL BE HANCOR AASHTO RCP STORM PIPE OR APPROVED EQUAL. PIPING SHALL CONFORM TO AASHTO M-294 PER FDOT REQUIREMENTS.

**VERTICAL DATUM:**  
 ELEVATIONS BASED ON N.A.V.D. 1988 VERTICAL DATUM

**UTILITY PLAN**  
 SCALE: 1"=100'



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**UTILITY PLAN**

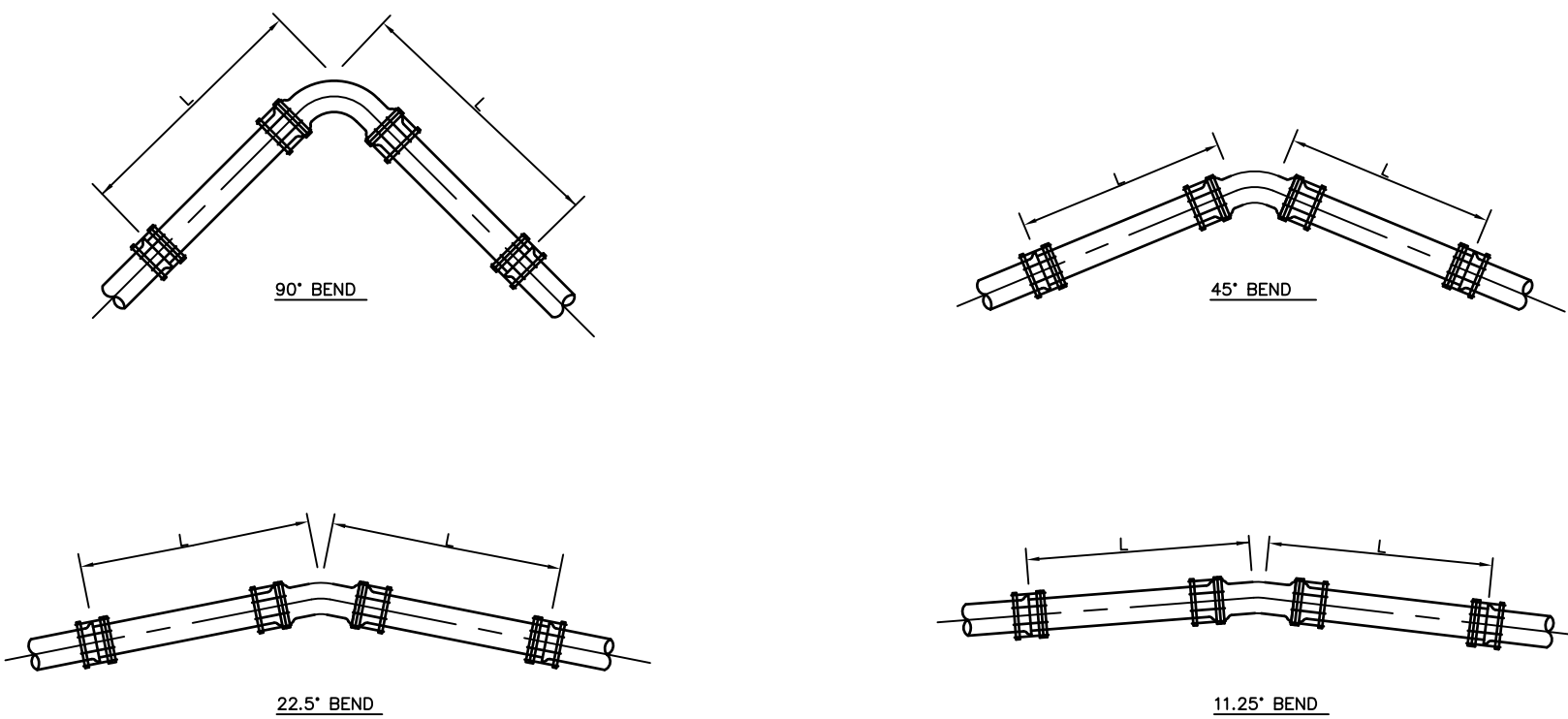
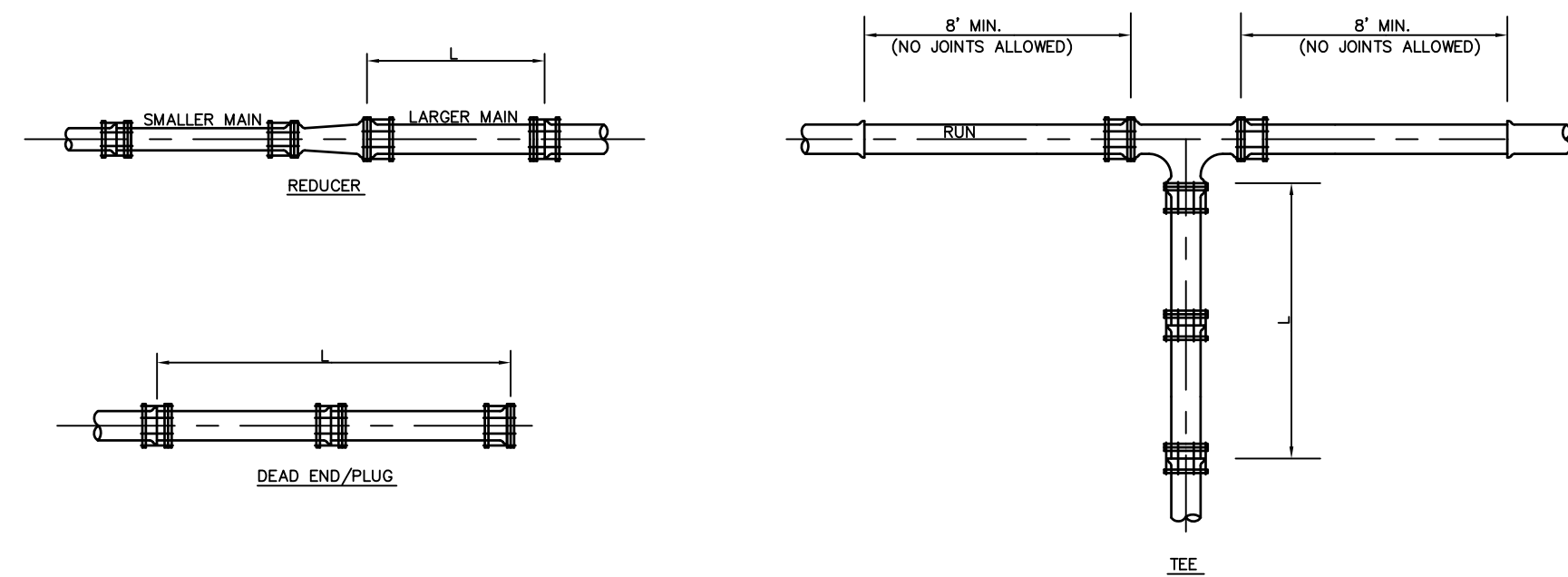
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO. **C4.1**

DRAWN: R.S.H.	CHECKED: K.E.R.	SCALE: 1"=100'	DATE: 11/14/18	PROJECT NO: 18.07-004
REV #	REV #	REV #	REV #	REV #

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 ESTABLISHED 1971

KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800  
 REVISED PER LAKE COUNTY 1/23/19



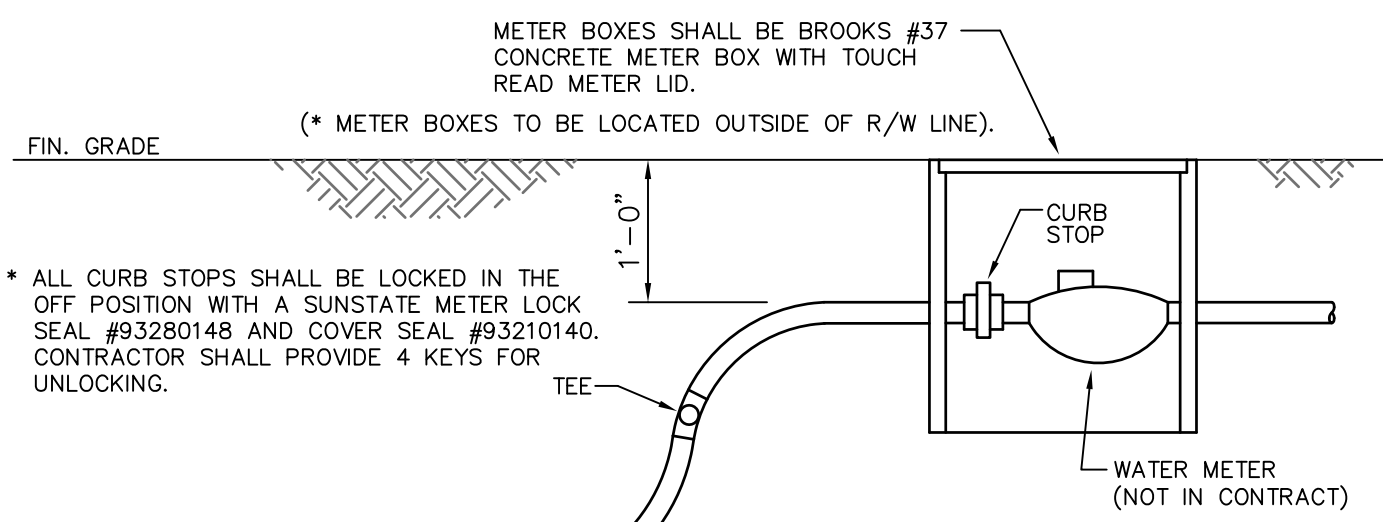
THRUST RESTRAINT DETAILS  
N.T.S.

FITTINGS (LENGTH IN FEET)					
(3-FT. COVER: 200 PSI TEST PRESSURE)					
PIPE SIZE (INCHES)	90° BEND	45° BEND	22.5° BEND	11.25° BEND	DEAD END & PLUG
	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)
4	40'	20'	20'	20'	40'
6	60'	40'	20'	20'	60'
8	80'	40'	20'	20'	80'
10	80'	40'	20'	20'	80'
12	100'	40'	20'	20'	100'
16	120'	60'	40'	20'	120'

REDUCERS						
SMALL END	LARGE END					
	6"	8"	10"	12"	16"	20"
4"	40'	60'	80'	100'	140'	160'
6"		40'	60'	80'	120'	160'
8"			40'	60'	120'	140'
10"				60'	100'	140'
12"					60'	120'
16"						60'

NOTE: PROVIDE RESTRAINED JOINTS AT CHANGES IN DIRECTION OF ALL WATER MAINS. RESTRAIN ALL PIPE JOINTS WITHIN THE DISTANCES SHOWN IN THE ABOVE TABLE FROM THE POINT OF FITTING. ALL FITTING JOINTS, PIPE JOINTS, VALVE JOINTS, COUPLINGS, SLEEVES, ETC. SHALL BE RESTRAINED WITHIN THE DISTANCES SHOWN. DISTANCES APPLY TO LENGTHS OF PIPE ON EACH SIDE OF THE FITTING. TEES AND DEAD ENDS VALVED OR CAPPED ARE CONSIDERED EQUIVALENT TO 90 DEG. BENDS. (LENGTHS ARE BASED ON SOIL OF "TYPE 2 CLAY" BACKFILL AND 200 PSI TEST PRESSURE.)

JOINT RESTRAINTS SHALL BE MEGA-LUG OR APPROVED EQUAL.

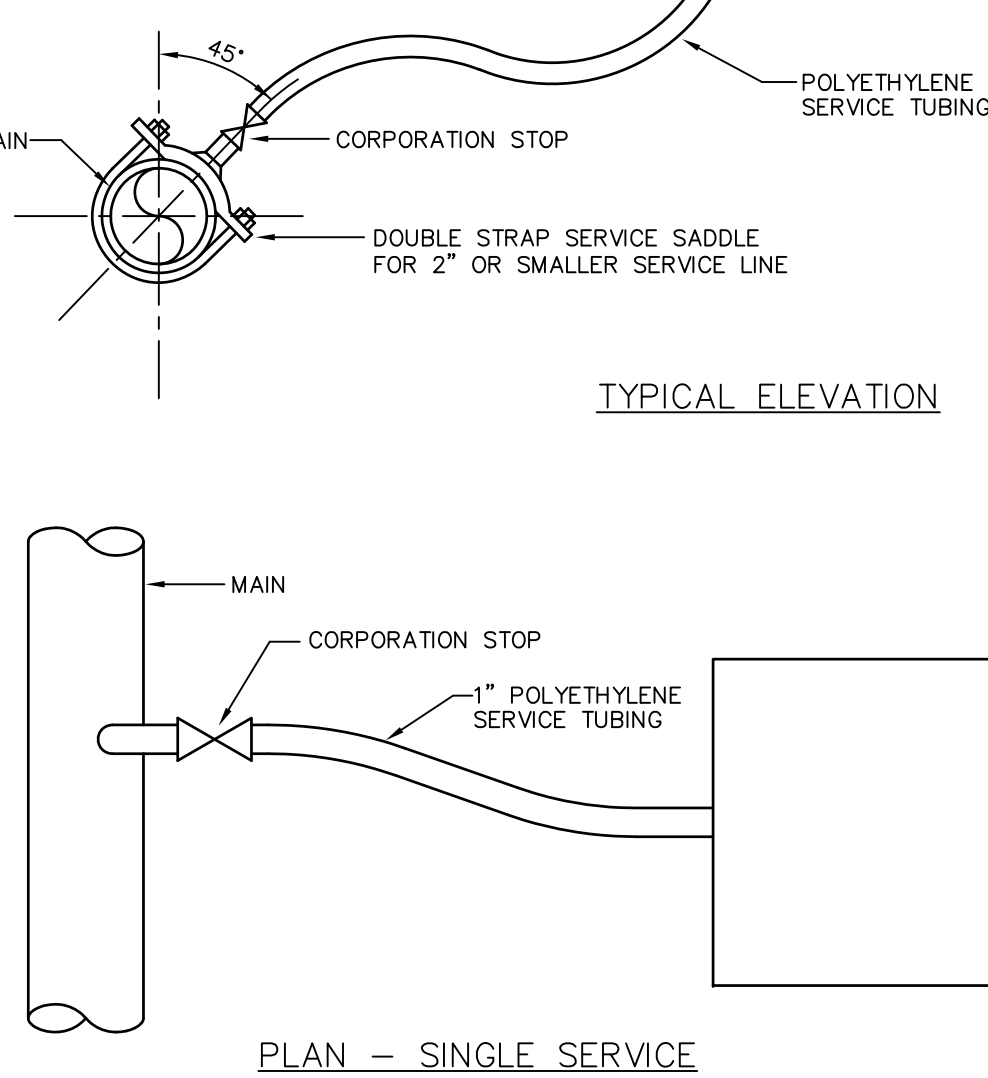


\* ALL CURB STOPS SHALL BE LOCKED IN THE OFF POSITION WITH A SUNSTATE METER LOCK SEAL #93280148 AND COVER SEAL #93210140. CONTRACTOR SHALL PROVIDE 4 KEYS FOR UNLOCKING.

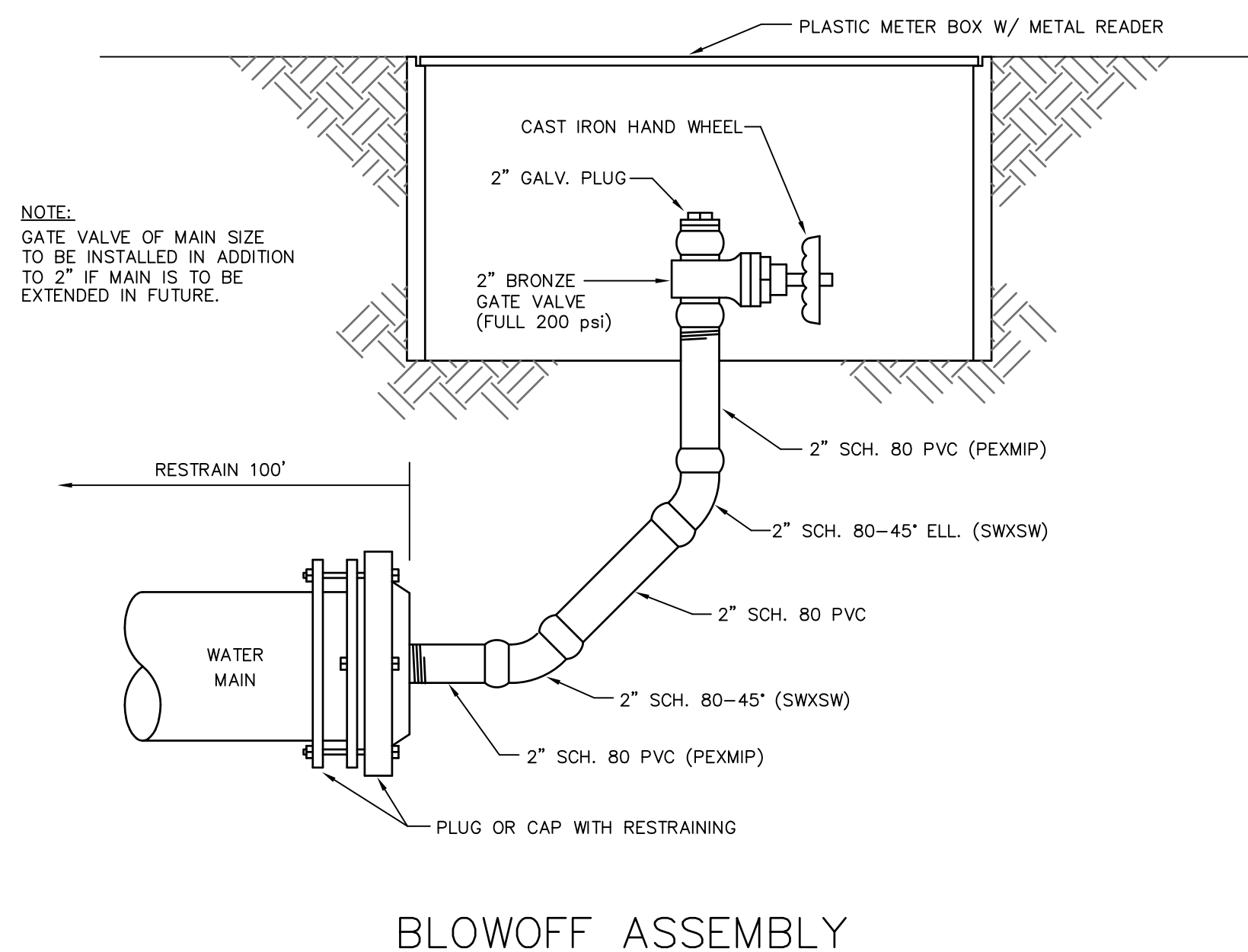
NOTE: CONTRACTOR SHALL STAMP THE LETTER "W" IN THE CURB AT THE LOCATION OF EACH WATER SERVICE.

\* CONTRACTOR SHALL PROVIDE THE CITY OF EUSTIS WATER DEPARTMENT WITH 20% (32) REPLACEMENT OF #37 CONCRETE METER BOXES.

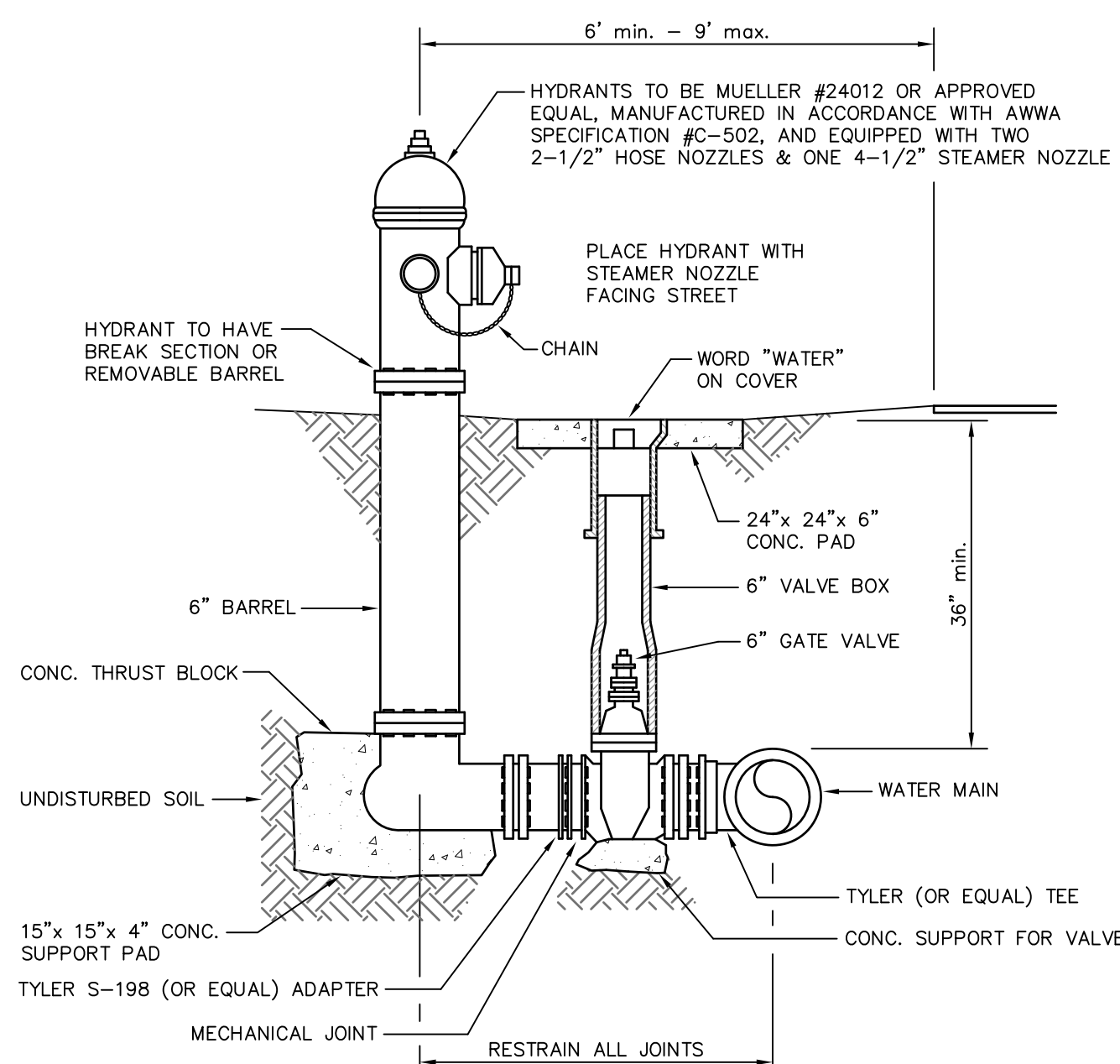
NOTE: ALL SINGLE AND DOUBLE SERVICE TUBING TO BE PHILLIPS DRIS COLITE POLYETHYLENE SDR9 200 PSI



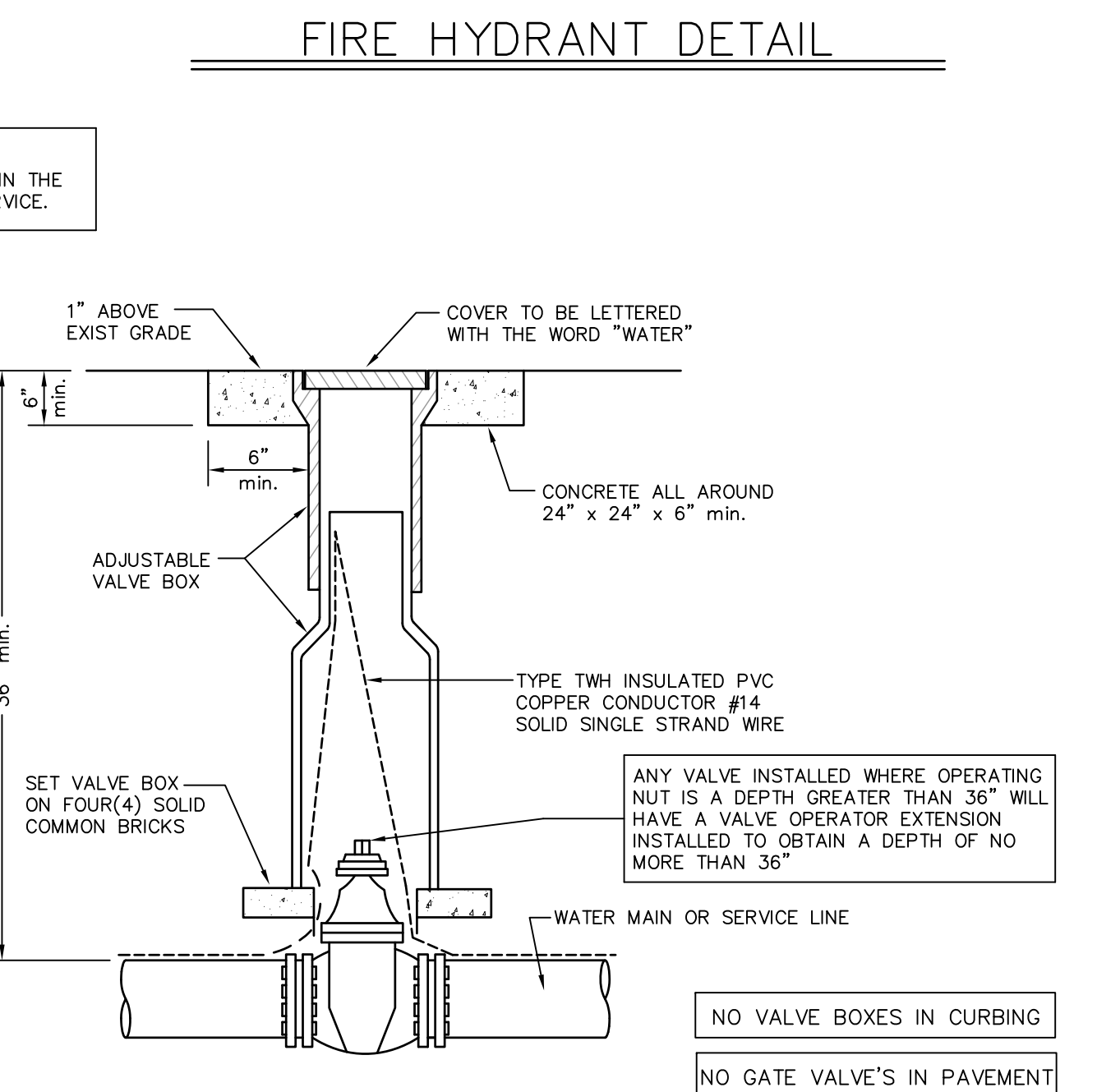
WATER SERVICE DETAILS



BLOWOFF ASSEMBLY



FIRE HYDRANT DETAIL



GATE VALVE & BOX

NO VALVE BOXES IN CURBING  
NO GATE VALVE'S IN PAVEMENT

GENERAL NOTES

1. Pressure Test - Pressure testing shall be in accordance with AWWA Standard C600, C603 or C605 as applicable. The pipes shall be completely filled with water, bleeding air as necessary, and subjected to a pressure of 150 psi which shall be maintained by pumping, for at least two (2) hours and until all exposed joints and fittings have been inspected for leakage. After leaks, if any, have been satisfactorily repaired the lines will be retested. Prior to testing, thrust blocks shall be installed and all piping shall be adequately braced and supported so that no damage will result from the application of the test. Leakage in gallons per hour shall not exceed that as determined by the following formulas as set forth in AWWA Standard M-23:

$$L = \frac{ND(P)^{0.5}}{7400}$$

Where L: Leakage in gallons per hour  
N: Number of joints in section tested  
D: Nominal diameter of the pipe - inches  
P: Average test pressure maintained during the leakage test in psi.

2. After completion of construction and testing, the water system shall be sterilized with chlorine before acceptance for domestic operation. The amount of chlorine applied shall be sufficient to provide a dosage of 50 parts per million or more. After thoroughly flushing the system with clean water, the chlorine solution shall be introduced in a manner conforming to A.W.W.A. specification C-651. The Chlorine solution shall remain in the system for a contact period of at least 24 hours, during which every valve in the system shall be opened and closed several times to assure contact with all parts of the system. Upon completion of the sterilization operation, the system shall be flushed with chlorinated water from a domestic source. Samples shall then be taken by the contractor for testing to the satisfaction and in accordance with the Florida Department of Environmental Protection regulations.

3. Gate Valves - 2 1/2" or smaller: Bronze body Federal Spec., 150 psi working pressure with threaded joints equal to American 3 FG or Red and White 280. The use of this type of valve would have to be approved by the City.

4. Gate Valves - 3" and larger: Iron body, non-rising stem type and shall be equipped with a 2" square cast iron operating nut with corrosion protection coating inside and out, resilient seated valve which meets all requirements of AWWA Standard C-509.

5. Contractor to furnish owner with one T-handle socket wrench for each different size operating nut on valves installed and one spanner wrench for each four fire hydrants installed.

6. Valve Boxes: All valves installed underground shall be provided with an adjustable, screw type cast iron valve box and cover marked "Water". Minimum inside diameter of 5 inches and designed so as not to bear on or transmit any

6(cont). surface load to the valve or pipe. Minimum 24"x24"x6" deep concrete collar shall be placed around the top of the box at ground level. Valve boxes shall not be installed in curb and gutter or in pavement sections.

7. Minimum cover: All mains to have 3'-0" minimum cover and all service lines to have 1'-6" minimum cover.

8. All potable water pipes must be manufactured in accordance with the following AWWA specifications:

- A) Ductile iron pipes (3 inches to 54 inches) - AWWA C160/C151;
- B) PVC - All domestic drinking water pvc pipes shall bear the NSF logo "PW" for potable water use:
  - (1) AWWA C900/ASTM 1784 (4 inches to 12 inches) shall have a dimension ratio (D.R) of 18 or less and shall be a pressure class of 150 psi;
  - (2) AWWA C905 (14 inches to 36 inches);
  - (3) ASTM 1785 or AWWA C905 (less than 4 inches) schedules 40, 80 and 120 or ASTM 2241 (SDR 21 minimum);
- C) Polyethylene pipe - AWWA C901 with valves and fittings (AWWA C800).

9. All pipe and pipe fittings shall contain no more than 8.0% lead. Any solder or flux utilized shall contain no more than 0.2% lead.

10. All pipe and pipe fittings shall be color coded blue in accordance with 62-555.320 (21)(b)3, F.A.C.

11. Contractor shall ensure that the installation of the Water Main complies with the minimum separations shown on this plan. The Engineer shall be notified, prior to installation, of all locations where the minimum distances can not be maintained.

12. All pressure lines under pavement sections shall be installed with PVC casing pipe extending 5 feet beyond the edge of pavement.

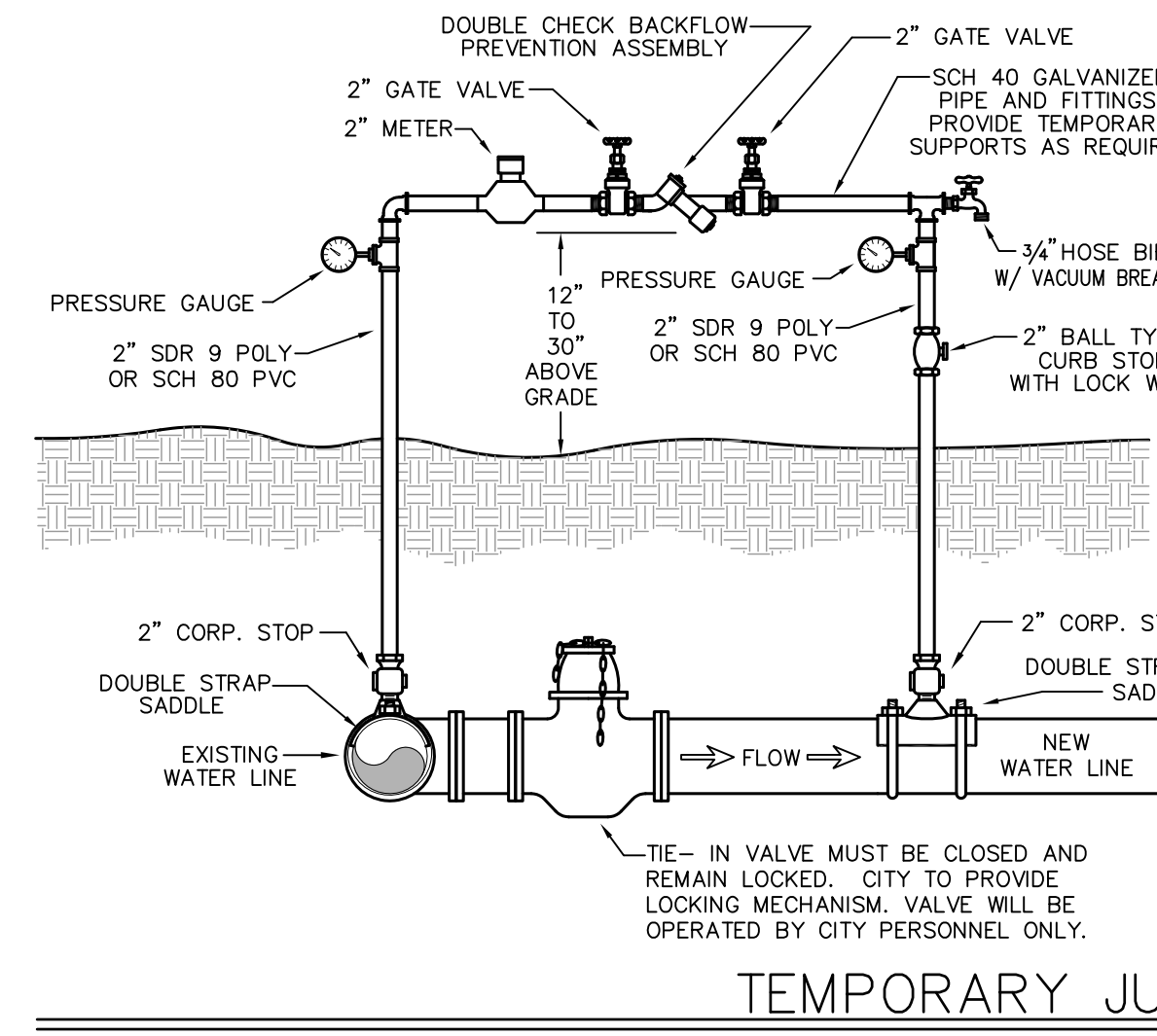
13. Tracking wire shall be taped to the pipe at two locations per joint. Tracking wire shall be type TWH insulated P.V.C. copper conductor No.14 solid single strand. The wire shall be a continuous run from valve to valve. Should a splice be required, it shall be made good and firm and properly insulated so water and corrosion will not deteriorate the copper. Metallic locating tape shall be placed in the trench 18" above the top of pipe.

14. All fittings shall be cast iron or ductile iron. Fittings shall conform to A.N.S.I. Standard A 2110 with mechanical joints in accordance with A.N.S.I., Standard A 21.11. Where mechanical joint fittings interface with P.V.C. pipe, a transition gasket shall be used.

15. City of Eustis "Water Construction Requirements" are incorporated herein by reference. In the case of a discrepancy between the specifications above and those required by the City, the City specifications shall govern for all material and installation procedures.

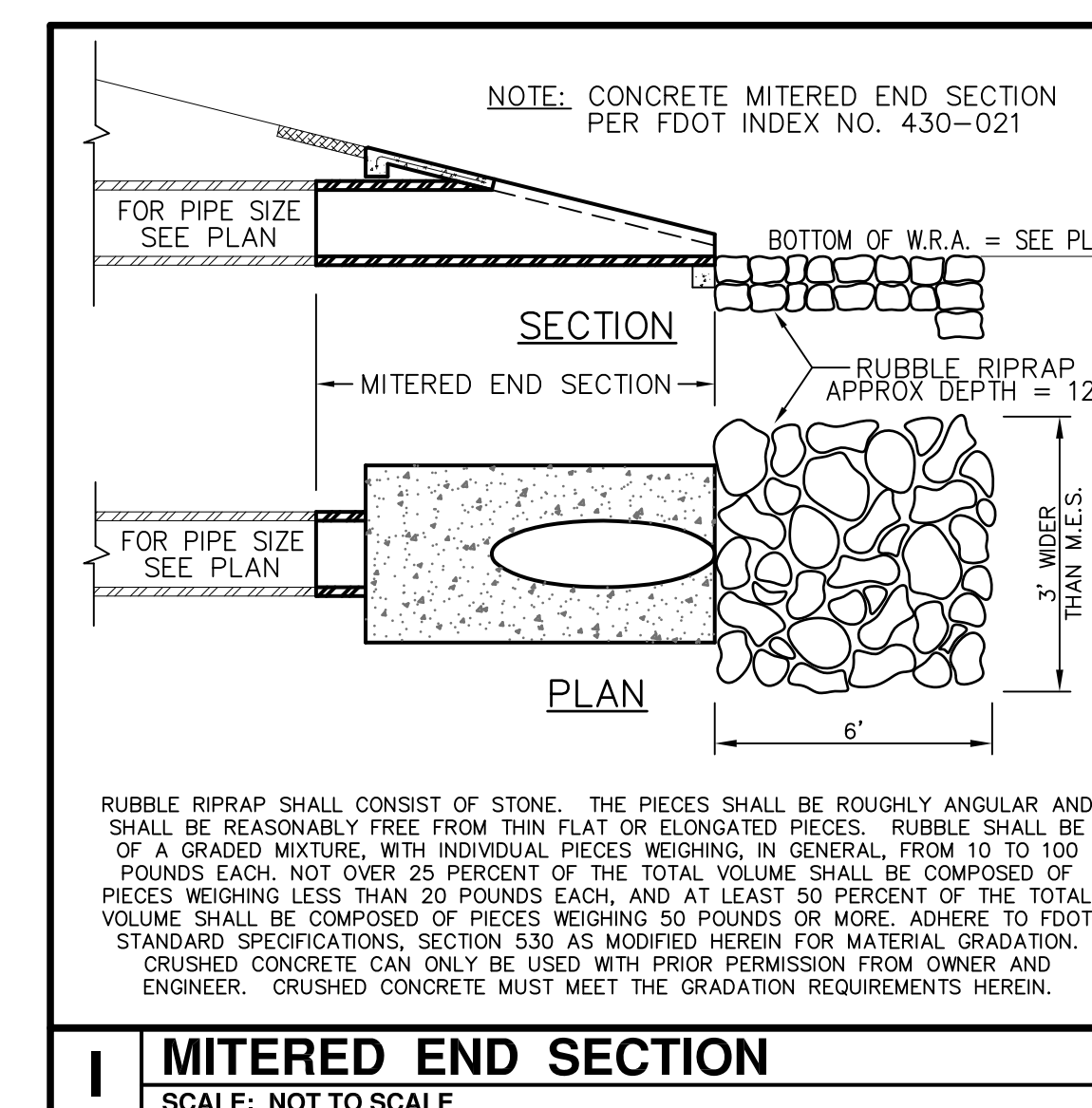
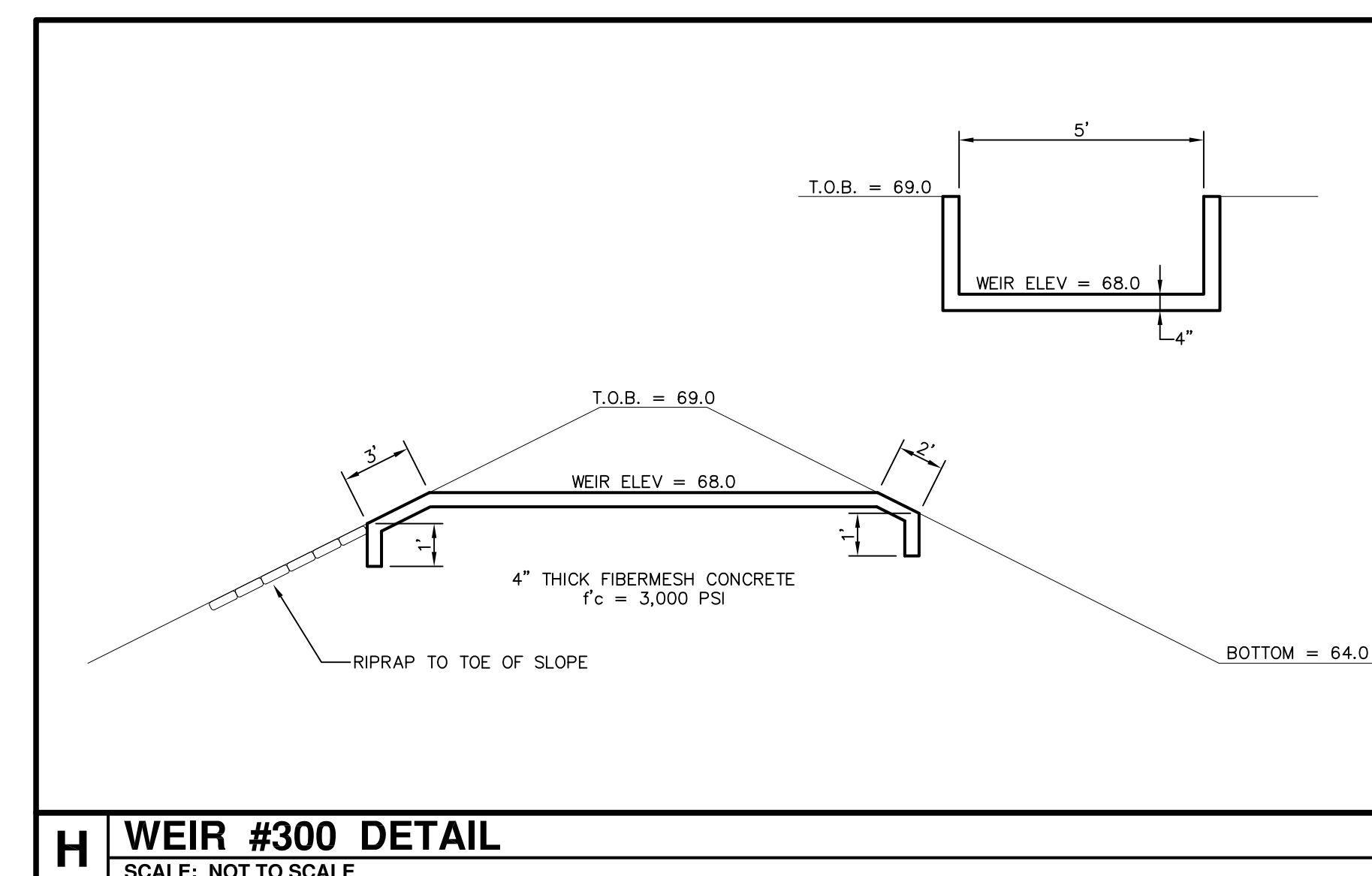
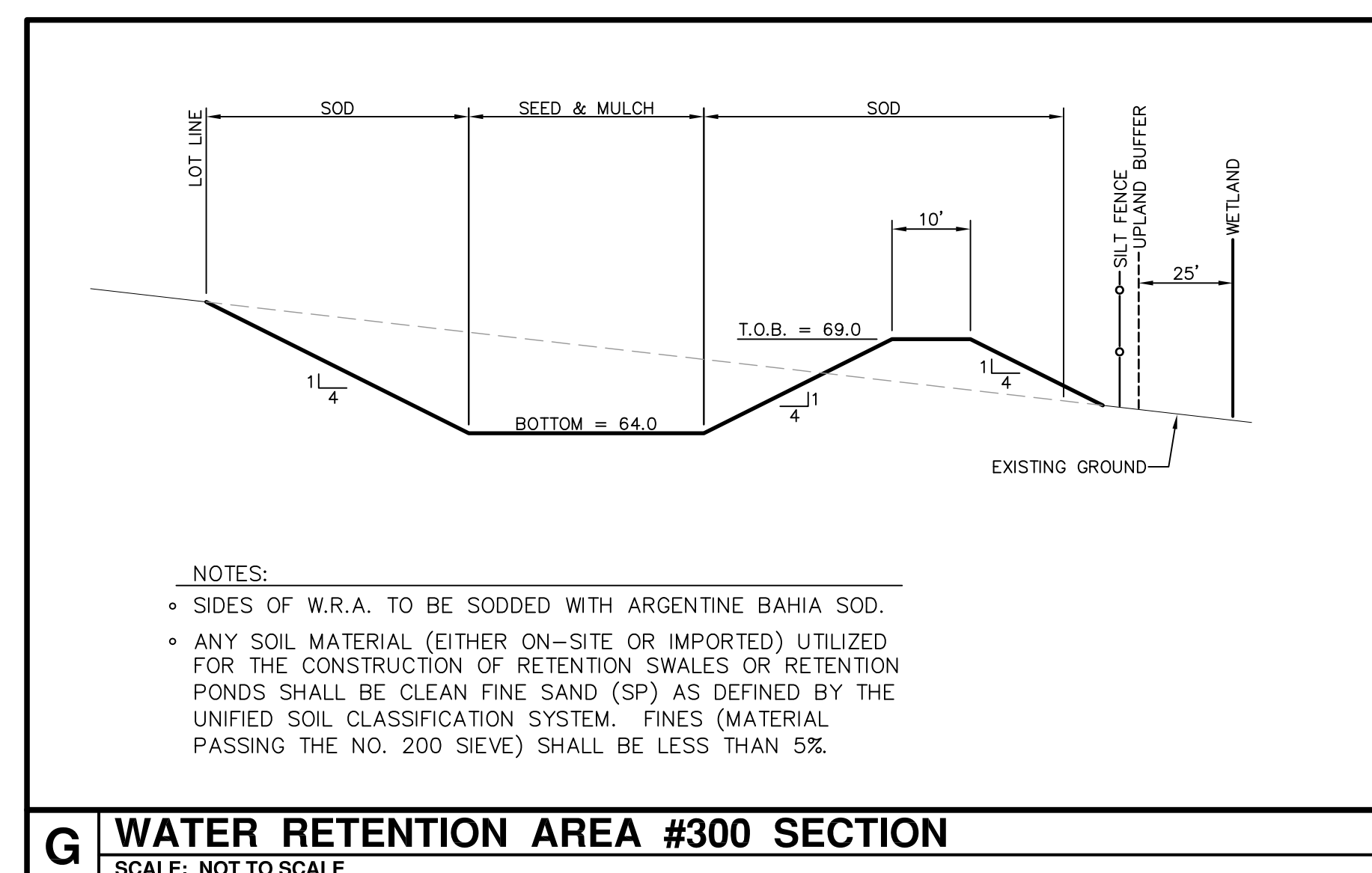
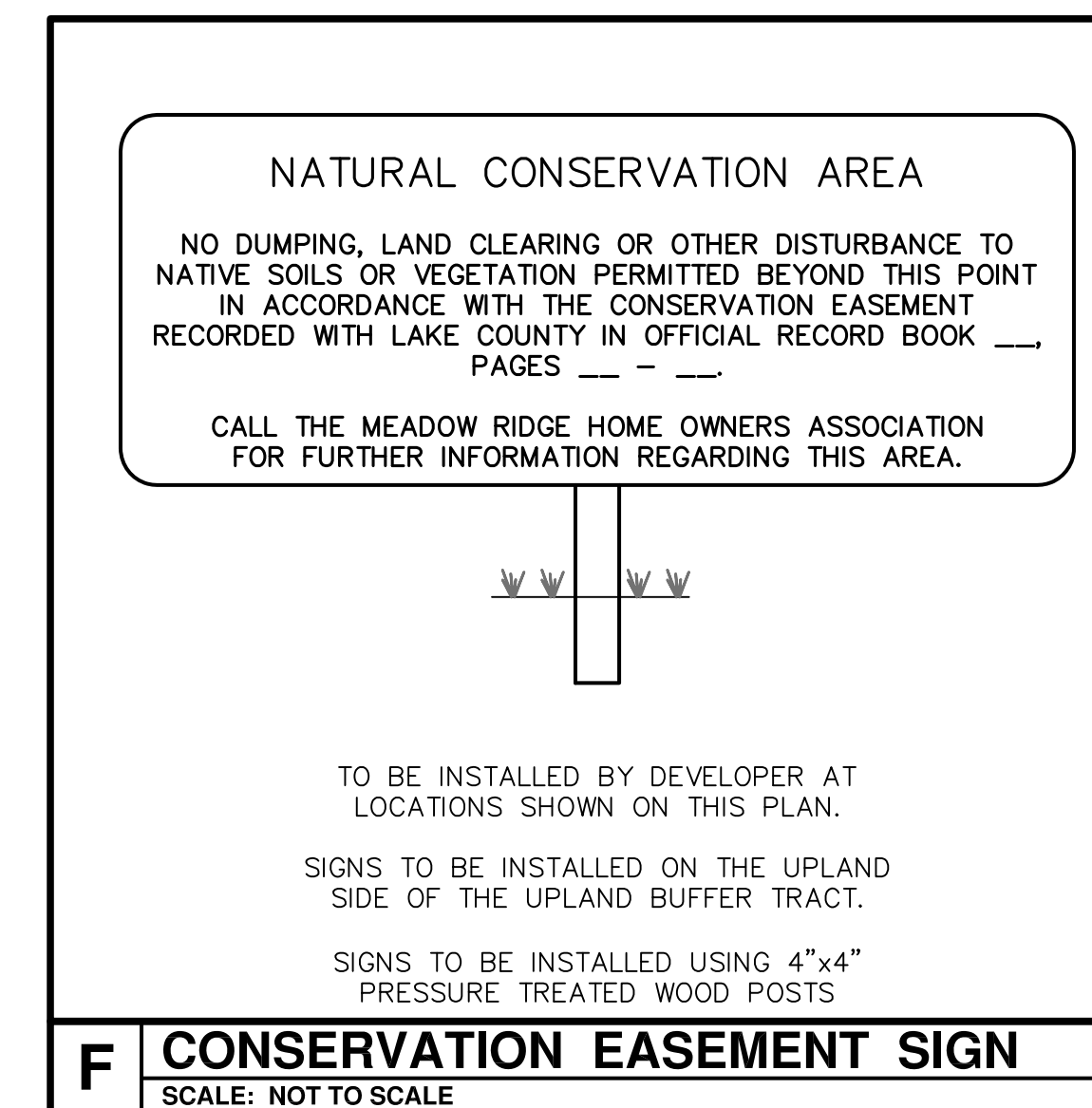
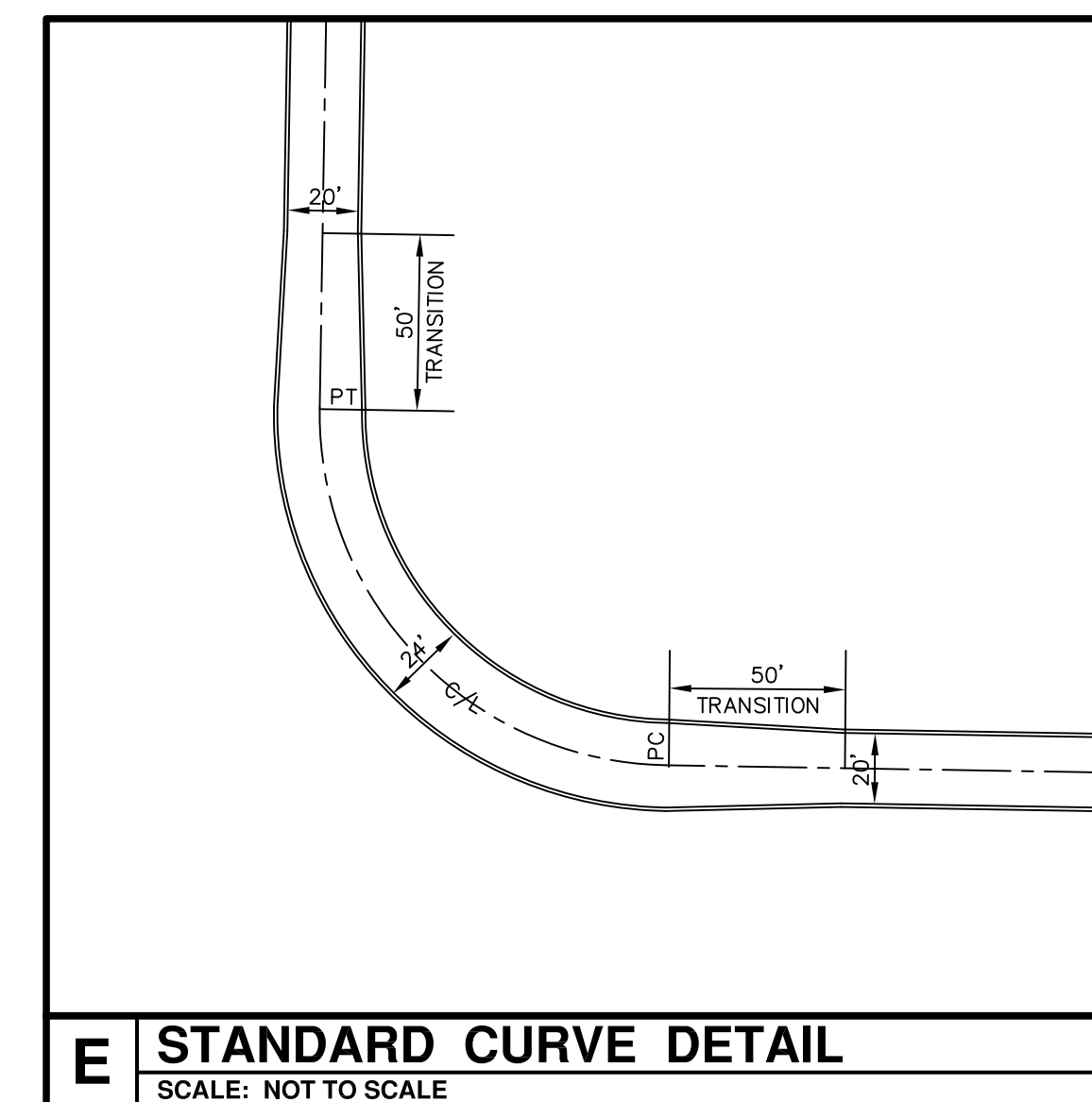
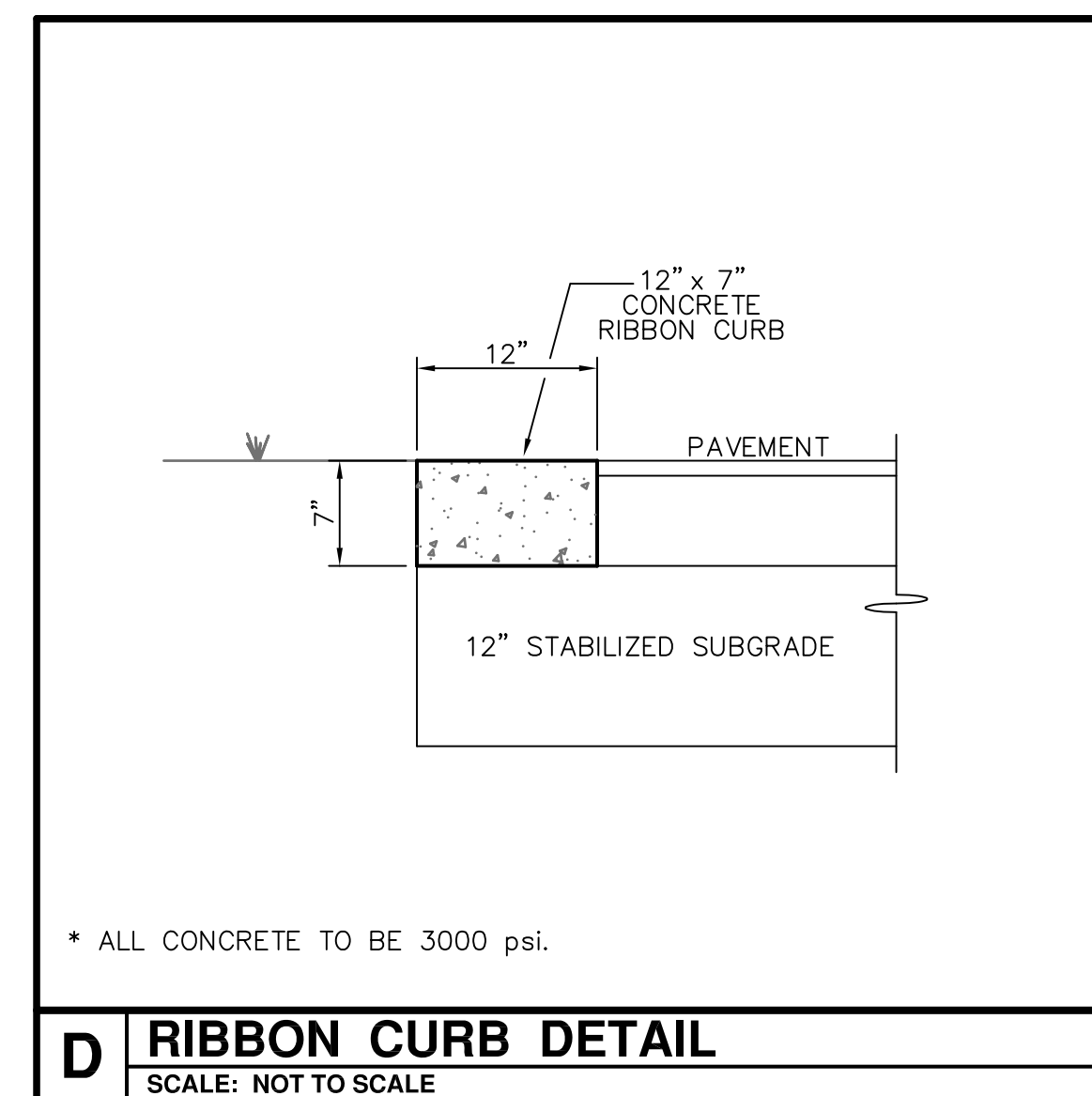
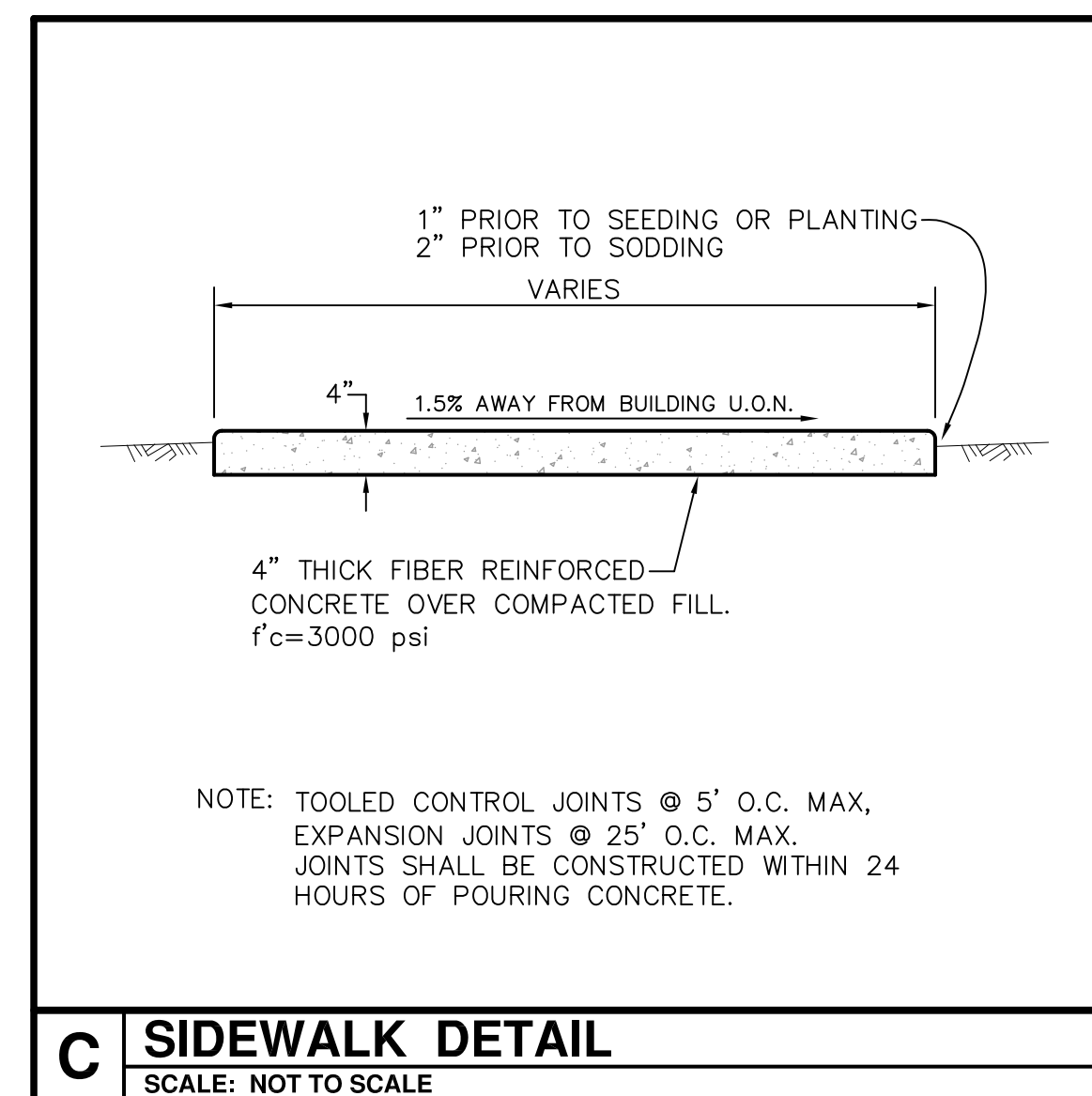
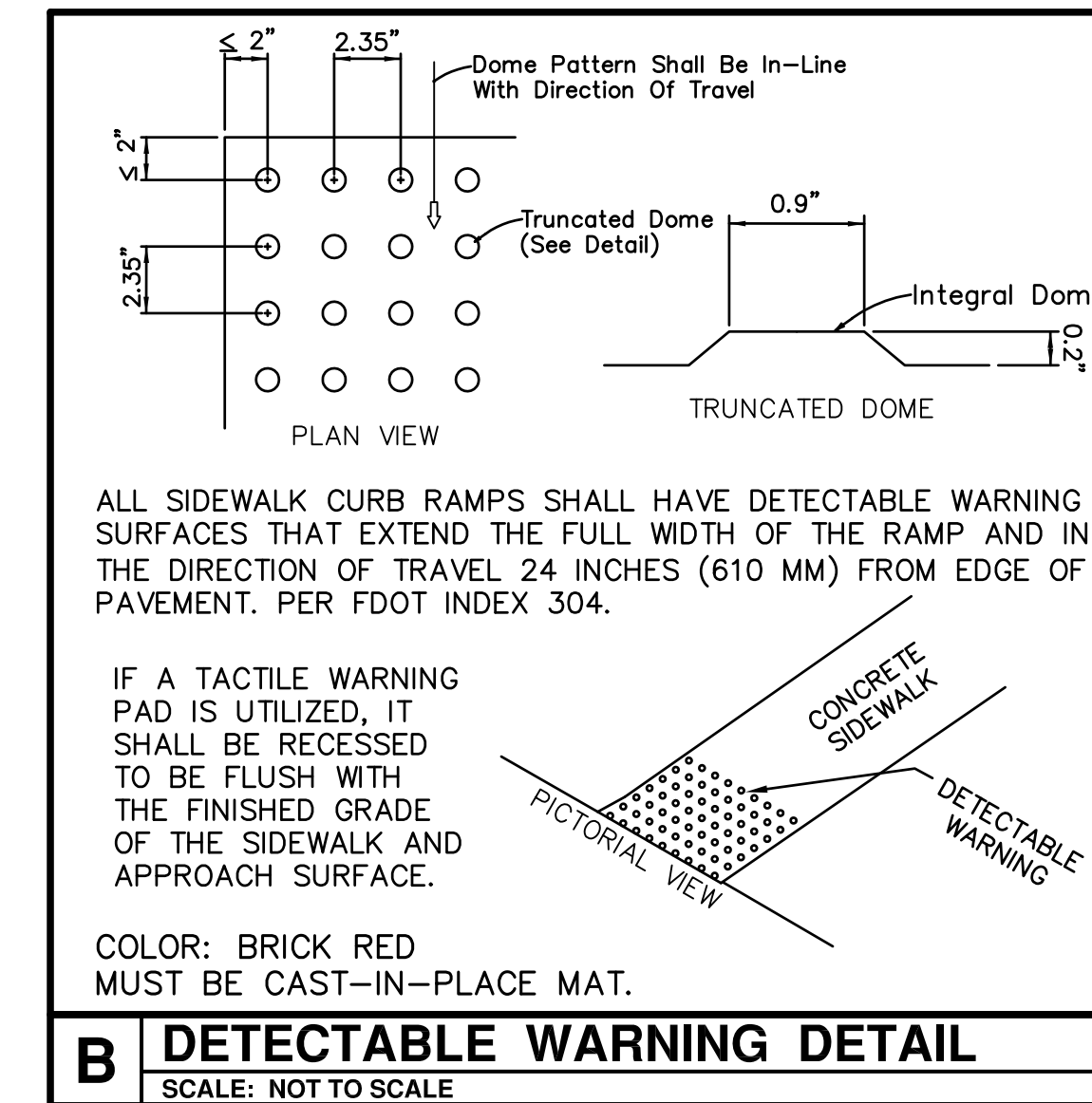
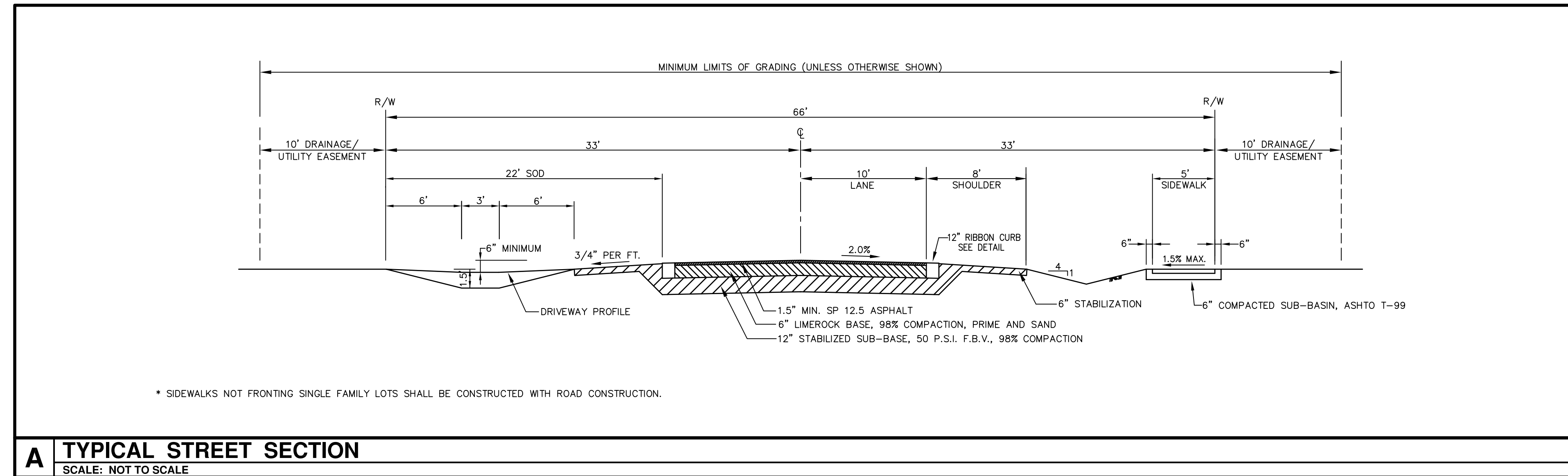
WATER MAIN SEPARATION REQUIREMENTS			
OTHER PIPE	HORIZONTAL SEPARATION	*CROSSINGS	JOINT SPACING @ CROSSINGS
STORM SEWER STORMWATER FM RECLAIMED WATER (1)	WATER MAIN -3 FT MINIMUM	WATER MAIN 12" IS THE MINIMUM EXCEPT FOR STORM SEWER THEN 6" IS THE MINIMUM AND 12" IS PREFERRED	FULL JOINT CENTERED WATER MAIN -ALTERNATE 3" MINIMUM
VACUUM TYPE SANITARY SEWER	WATER MAIN -1.0 FT PREFERRED -3 FT MINIMUM	WATER MAIN 12" PREFERRED 6" MINIMUM	FULL JOINT CENTERED WATER MAIN -ALTERNATE 3" MINIMUM
GRAVITY OR PRESSURE SANITARY SEWER RECLAIMED WATER (2)	WATER MAIN -1.0 FT PREFERRED -6 FT MINIMUM**	WATER MAIN 12" IS THE MINIMUM EXCEPT FOR GRAVITY SEWER THEN 6" IS THE MINIMUM AND 12" IS PREFERRED	FULL JOINT CENTERED WATER MAIN -ALTERNATE 6" MINIMUM
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT MINIMUM	---	---

\* WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE THE MINIMUM VERTICAL SEPARATION IS 12".  
\*\* 3 FT FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.



TEMPORARY JUMPER DETAIL

1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
2. THE DETAIL ABOVE IS TO BE USED FOR FLUSHING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FLUSHING, TESTING AND DISINFECTING OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) & OTHER PERTINENT AGENCIES HAS BEEN RECEIVED BY THE CITY OF EUSTIS. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE AFTER DISINFECTING AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPES AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISCONNECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C601, 1992 EDITION. THIS TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISCONNECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C601-92.
3. FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TE-IN VALVE UNDER VERY CONTROLLED CONDITIONS. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
  - A. THE TE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TE-IN. VALVES WHICH ARE NOT WATER TIGHT, SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
  - B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAIL. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMITS. FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAINS. ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TE-IN VALVE. PROVIDE FOR AND MONITOR THE PRESSURE AT THE TE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI. TE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 35 PSI.
  - C. THE TE-IN VALVE SHALL BE LOCKED CLOSED BY THE UTILITY COMPANY UNTIL FLUSHING BEGINS.
  - D. THE TE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE UTILITY COMPANY AND OBSERVED BY THE ENGINEER.
  - E. AFTER FLUSHING, THE TE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY.
  - F. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. A QUALIFIED BACKFLOW PREVENTION TECHNICIAN AS APPROVED BY THE CITY OF EUSTIS SHALL PERFORM THE TEST.
  - G. EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TE-IN VALVE SHALL REMAIN LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
  - H. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
  - I. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.





# LAKE COUNTY SIGN SPECIFICATIONS FOR COUNTY MAINTAINED ROADS

For Builders/Contractors/Developers



### Street Name Signs (D3's)

#### Sign Blanks

- .063" thick aluminum
- Aluminum chemically treated to meet ATSM B449 standard (pretreatment for paint or reflective sheeting)
- Dimensions are to be 9" height x 24" minimum / 54" maximum length.

#### Color

- The background shall be high intensity prismatic or greater white sheeting, with green transparent overlay film

#### Legend/Lettering

- One-half inch (1/2") white border, 1/8" from the edge.
- Street names shall be 6" series B letters
- The abbreviated suffix "Rd", "Ave", "Dr", etc., shall be 3" series B
- District number in the upper right corner of sign shall be 1 1/2" series B

#### Mounting

- Mounting shall be two single-sided signs with attributes above, mounted back to back, with ends pop-riveted together, on a galvanized 9" twist bracket. No edge-clamping style mounting blocks are to be used.

### Regulatory and Warning Signage

#### Material/Sign Blanks & Facings

- .060 Gauge
- With the exception of the Street Name Signs, all signs shall conform in color, size, legend and logo with specification in the Manual on Uniform Traffic Control Devices (MUTCD)
- Stop sign minimum 30" x 30", minimum high intensity prismatic sheeting or greater. Sheeting for all signs shall be high intensity prismatic or greater.

#### Placement Specifications

- Placement shall be in accordance with the MUTCD (Sections 2A-21 through 2A-27) with respect to offset from edge of road, height, etc.
- Poles should be buried to a minimum depth of 2 1/2' (30"), allowing 7" to bottom of sign from the level of the traveled roadway.
- Poles are NOT to be concreted in place

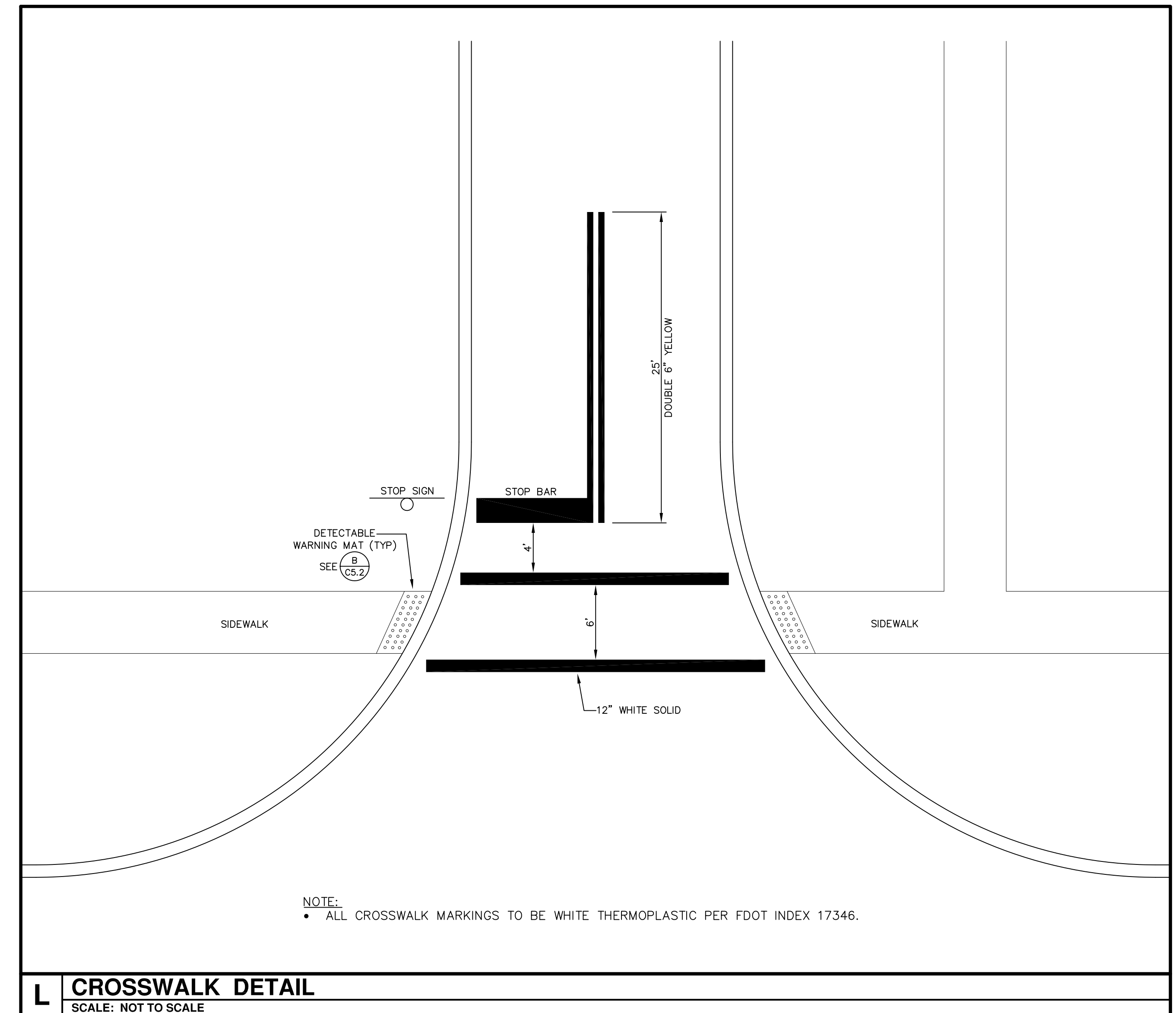
#### Poles

- Sign posts shall be galvanized steel U-Channel poles, not less than 12' in length (14' or 16' for severe shoulder drop-offs), with minimum weight of 3 lbs. per foot, or square tube, minimum 1 3/4" galvanized steel, minimum 14 gauge, drilled 1/2" holes on 1" centers full length.

STOP BAR (THERMOPLASTIC) TO BE PLACED ALONG WITH EACH STOP SIGN

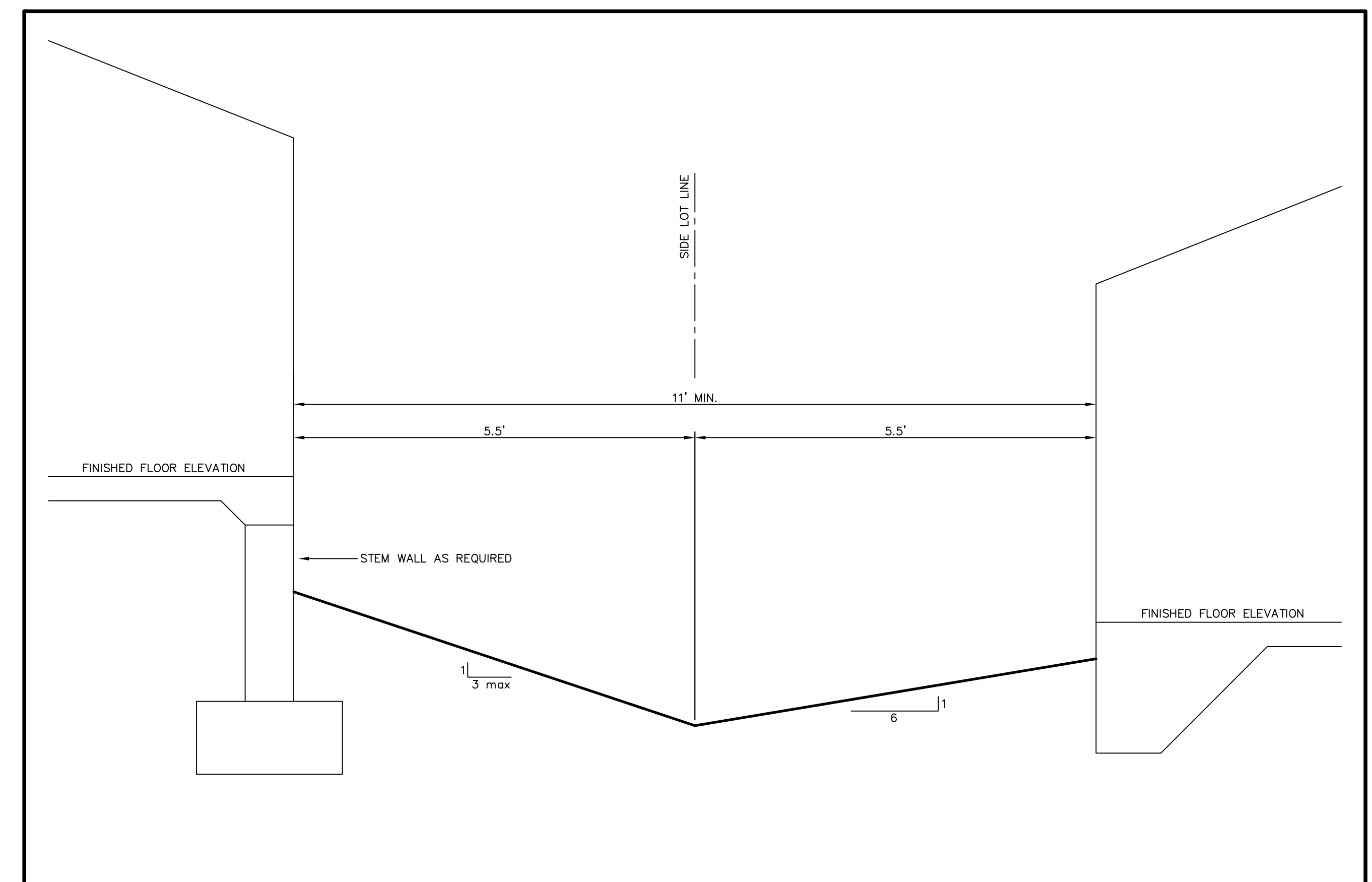
## J LAKE COUNTY SIGN SPECIFICATIONS FOR COUNTY MAINTAINED ROADS

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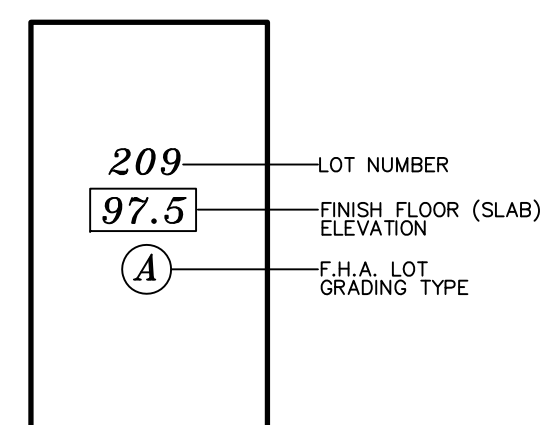
## L CROSSWALK DETAIL

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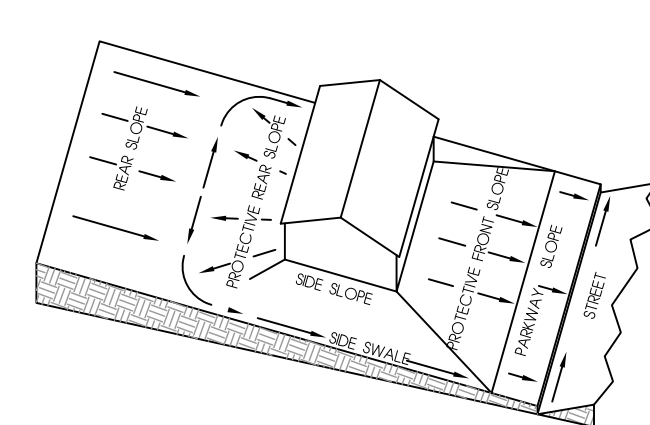


## M SIDE YARD SWALE DETAIL

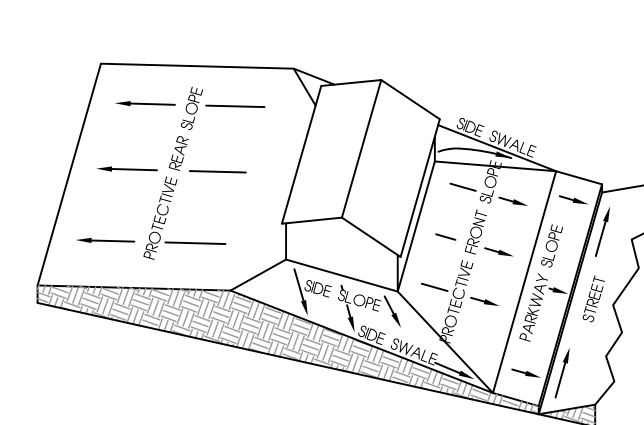
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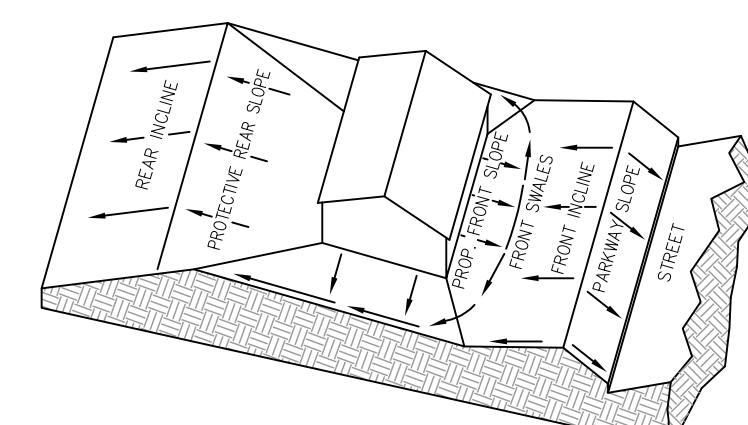
GENERAL NOTES  
1. ALL HOUSE PADS ARE TO BE FILLED 6" BELOW FF ELEVATIONS (97.5).



A LOT GRADING TYPE  
ALL DRAINAGE TO STREET



B LOT GRADING TYPE  
FRONT AND REAR DRAINAGE



C LOT GRADING TYPE C  
ALL DRAINAGE TO REAR LOT LINE

## K LOT GRADING SCHEMES

SCALE: NOT TO SCALE

RIDDLE - NEWMAN ENGINEERING, INC.  
 115 NORTH CANAL STREET  
 LEESBURG, FLORIDA 34748  
 PHONE (352) 787-7482  
 FAX (352) 787-7412  
 keith@riddlenewman.com  
 CA# 00002883

**RIDDLE NEWMAN ENGINEERING INC.**  
 ESTABLISHED 1971

REV #	REV #	REV #	REV #

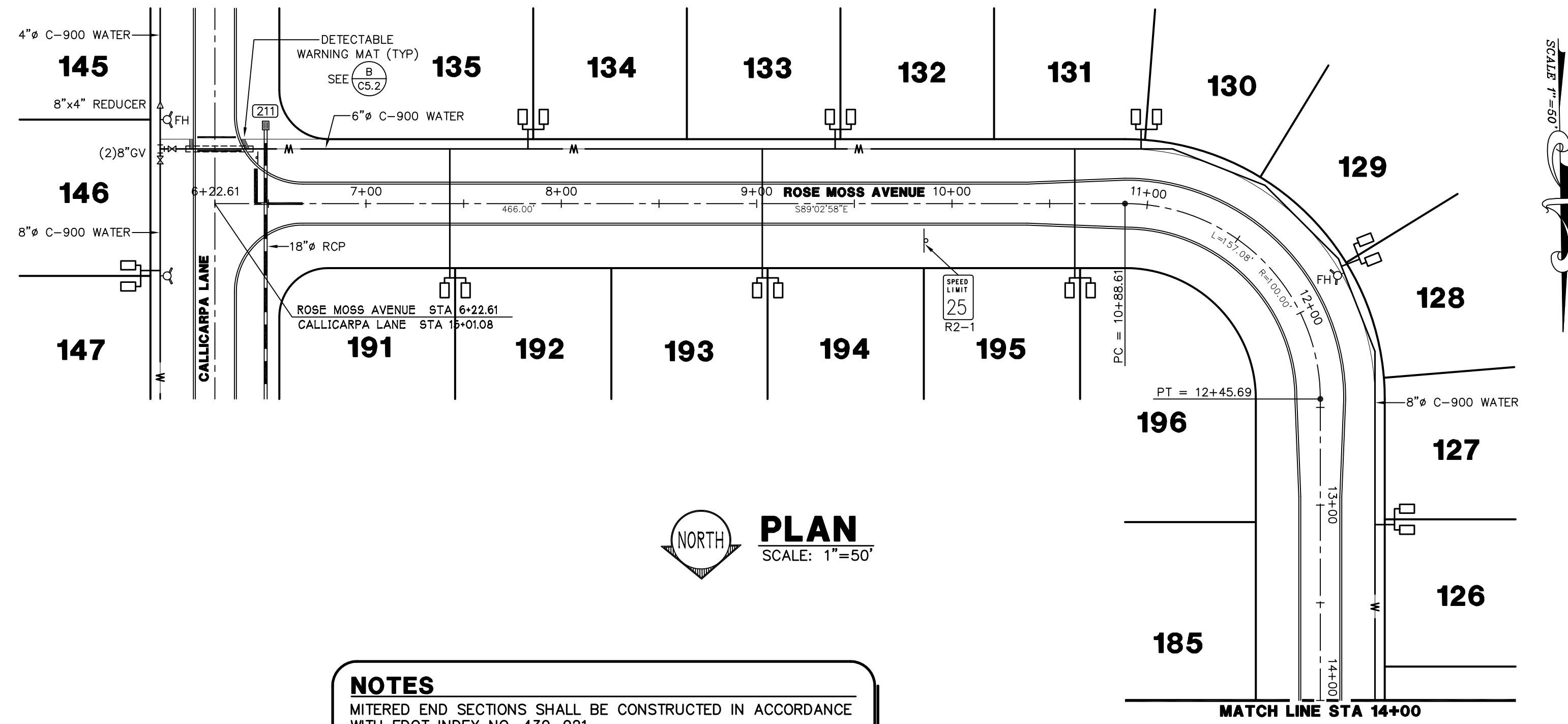
KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

DRAWN: R.S.H.  
 CHECKED: K.E.R.  
 SCALE: N.T.S.  
 DATE: 11/14/18  
 PROJECT NO: 18.07-004

DETAIL SHEET  
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO.  
**C5.3**

FILE: \18.07-004\Meadow Ridge Phase 2 © 2018 RIDDLE - NEWMAN ENGINEERING, INC. ALL RIGHTS RESERVED.



**NOTES**

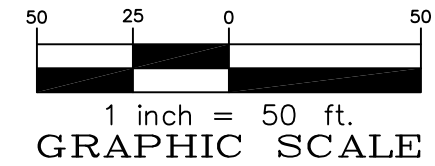
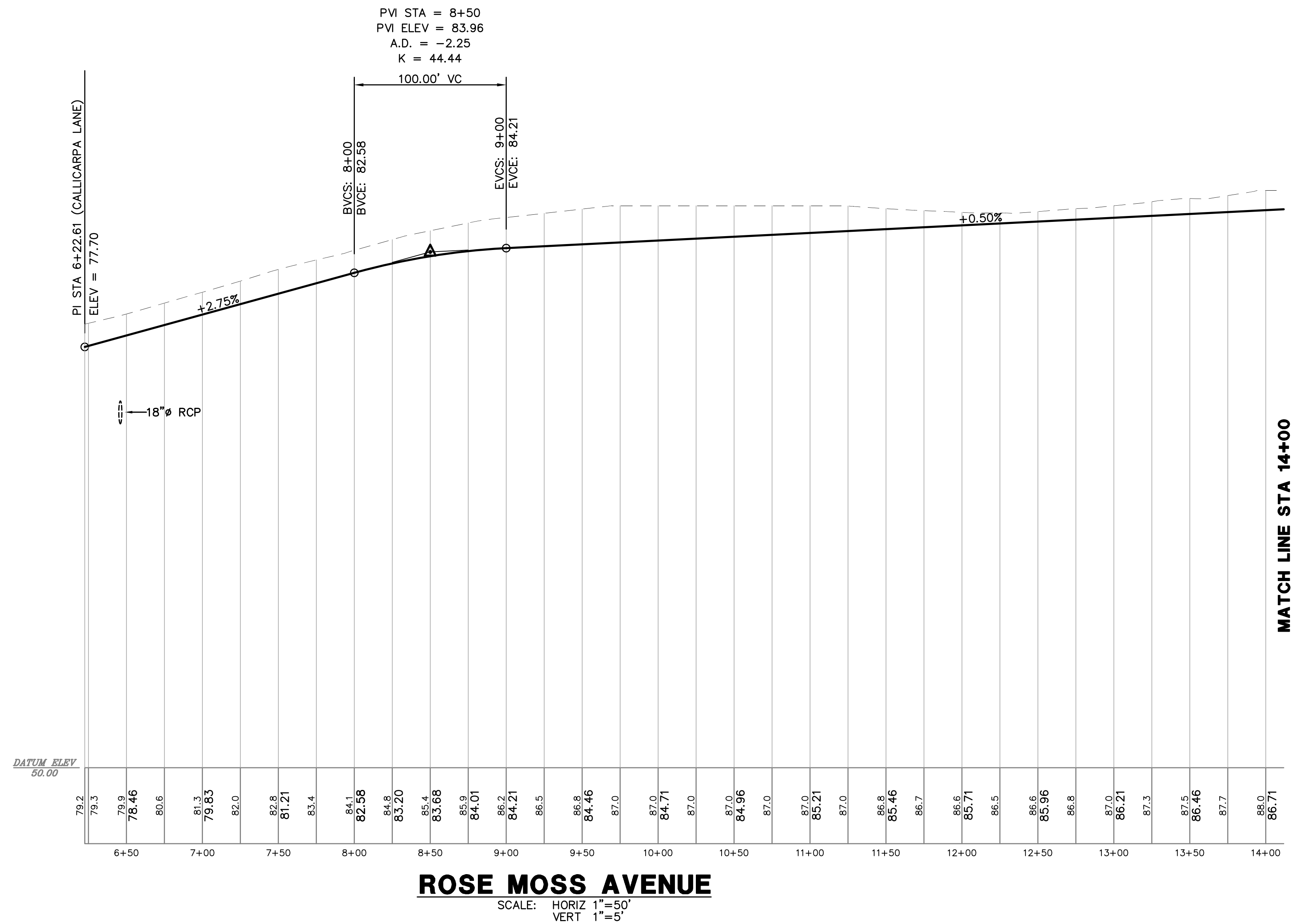
MITERED END SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 430-021.

TYPE "C" INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 425-052.

ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP).

ALL DITCH BOTTOM INLETS TO BE OPEN THROAT.

24"x30" R2-1 SPEED LIMIT 25 MPH SIGN INSTALLATION PER LAKE COUNTY SIGN SPECIFICATIONS FOR BUILDERS, CONTRACTORS AND DEVELOPERS.



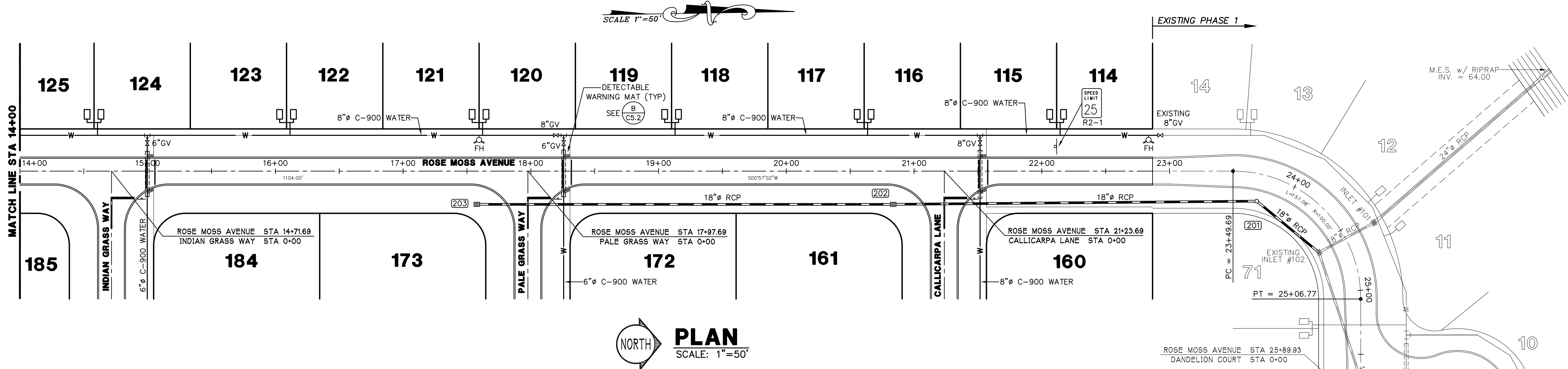
FILE: \18.07-004\Meadow Ridge Phase 2 © 2018 RIDDLE - NEWMAN ENGINEERING, INC. ALL RIGHTS RESERVED.

<p><b>PLAN &amp; PROFILE - ROSE MOSS AVENUE</b></p> <p><b>MEADOW RIDGE - PHASE 2</b></p> <p>LAKE COUNTY  FLORIDA</p>	<p>DRAWN: R.S.H.  CHECKED: K.E.R.  SCALE: 1"=50'  DATE: 11/14/18  PROJECT NO: 18.07-004</p>	<p>REV #  REV #  REV #  REV #</p>	<p>RIDDLE - NEWMAN ENGINEERING, INC.  115 NORTH CANAL STREET  LEESBURG, FLORIDA 34748  PHONE (352) 787-7482  FAX (352) 787-7412  keith@riddlenewman.com  CA# 00002853</p>
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KEITH E. RIDDLE, P.E.  
FLA. REGIS. NO. 38800

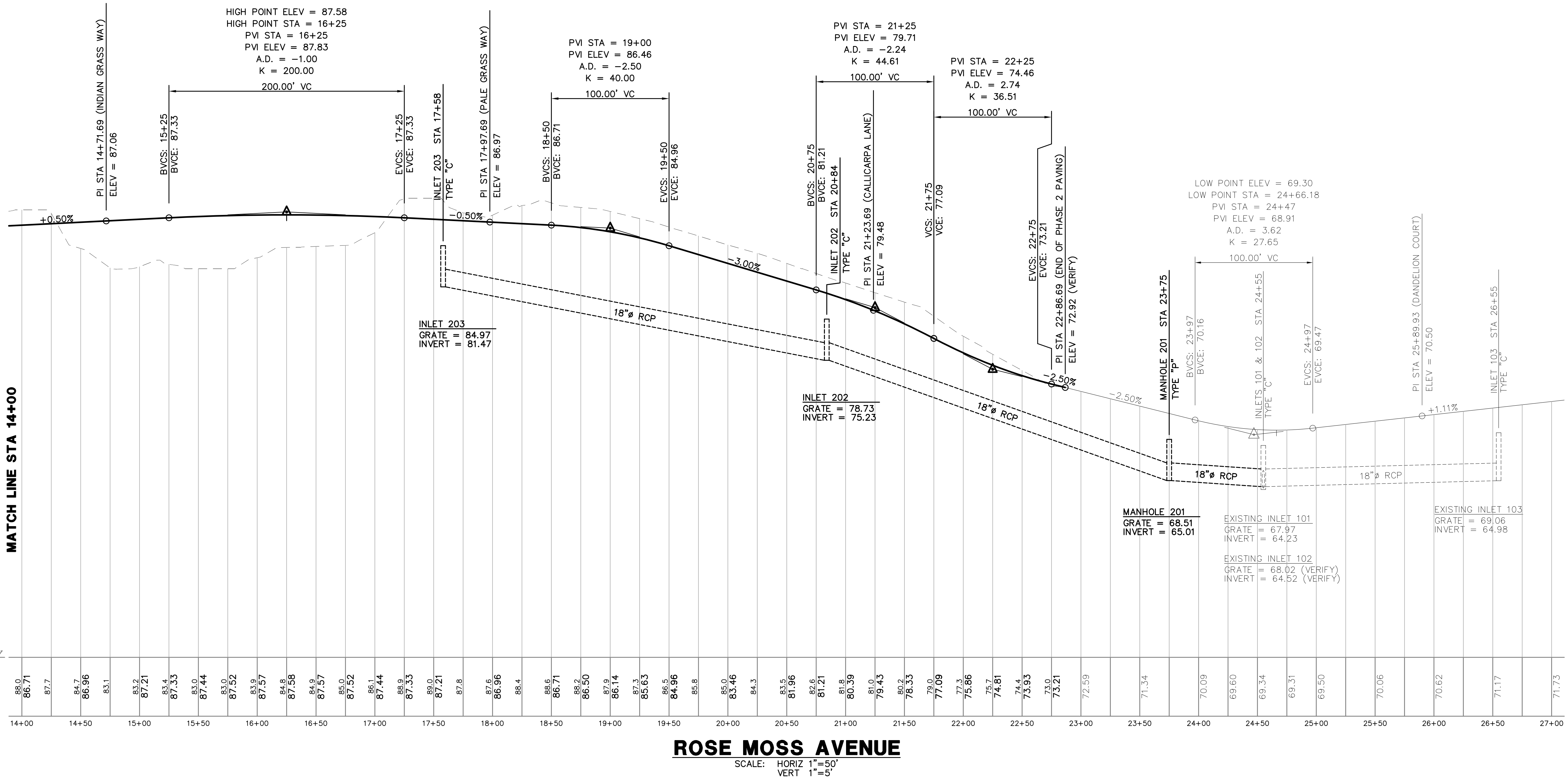
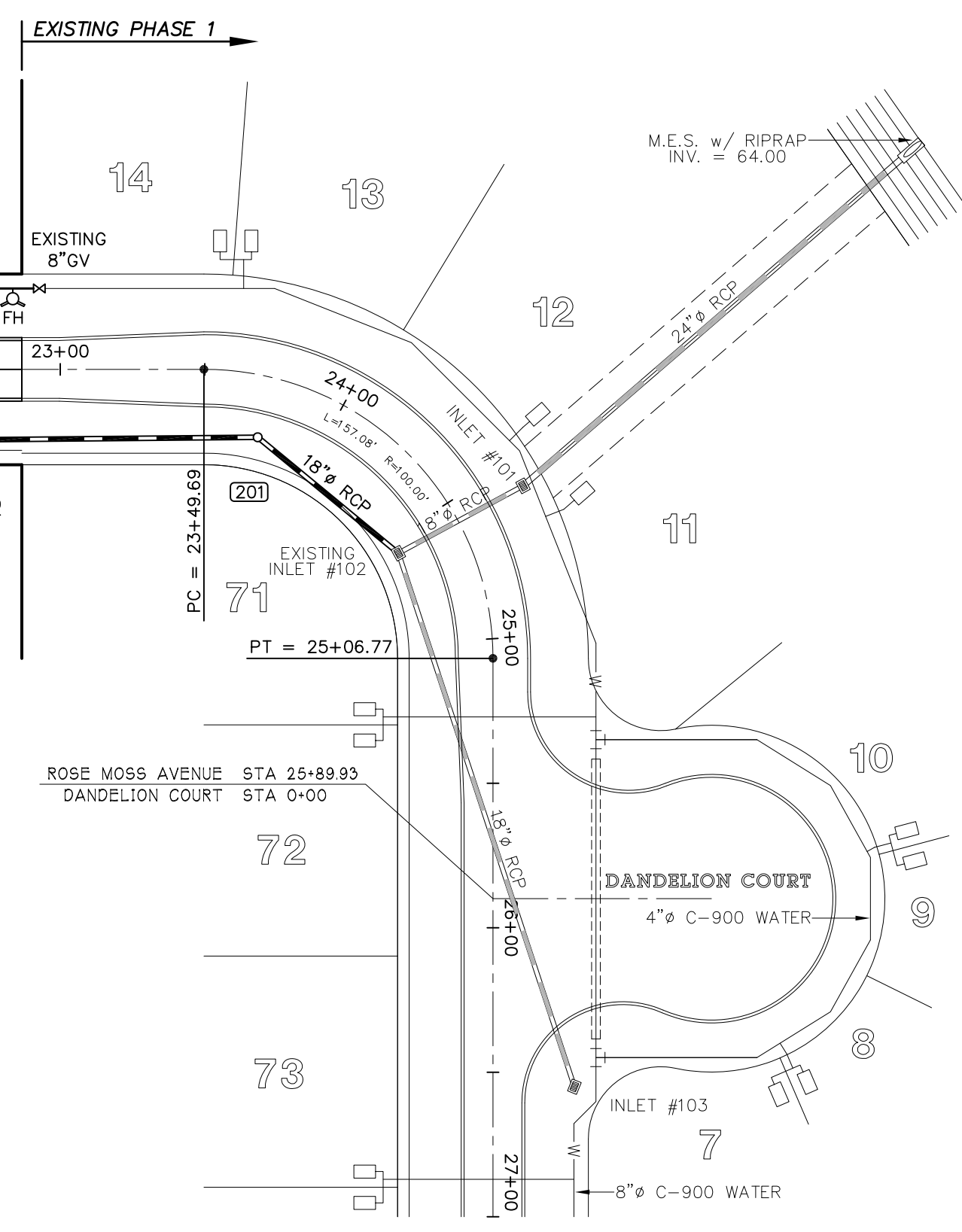
REV # 1/23/19  
REV # REVISED PER LAKE COUNTY

SHEET NO.  
**C6.1**

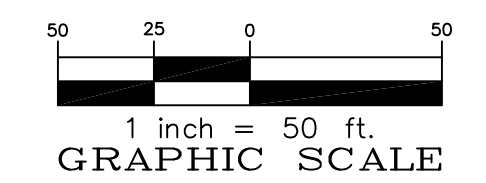


**PLAN**  
SCALE: 1"=50'

**NOTES**  
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24"x30" R2-1 SPEED LIMIT 25 MPH SIGN INSTALLATION PER LAKE COUNTY SIGN SPECIFICATIONS FOR BUILDERS, CONTRACTORS AND DEVELOPERS.



**ROSE MOSS AVENUE**  
SCALE: HORIZ 1"=50'  
VERT 1"=5'



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 CA# 00002883

**RIDDLE NEWMAN ENGINEERING INC.**  
 ESTABLISHED 1971

REV #	REV #	REV #	REV #

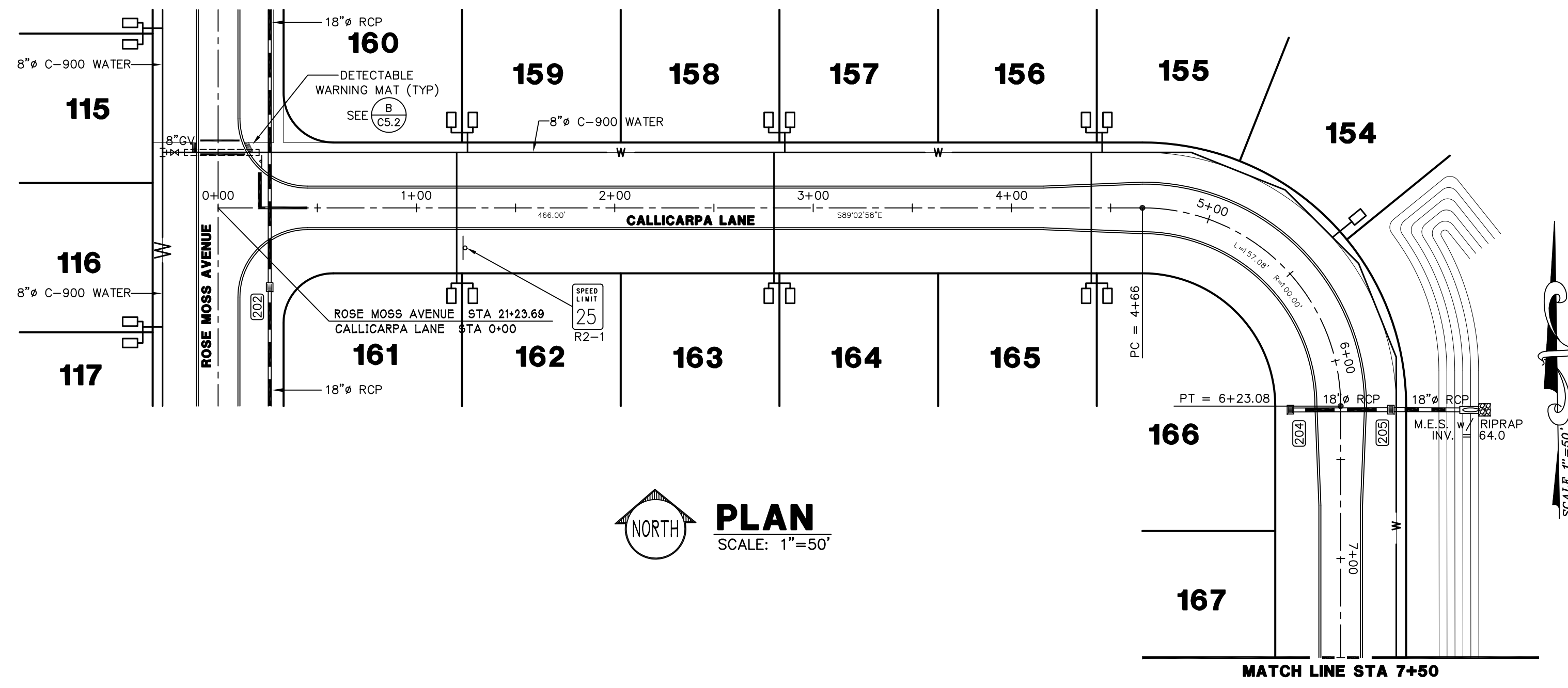
KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

DRAWN: R.S.H.  
 CHECKED: K.E.R.  
 SCALE: 1"=50'  
 DATE: 11/14/18  
 PROJECT NO: 18.07-004

**PLAN & PROFILE - ROSE MOSS AVENUE**  
**MEADOW RIDGE - PHASE 2**  
 FLORIDA  
 LAKE COUNTY

SHEET NO.  
**C6.2**

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**NOTES**

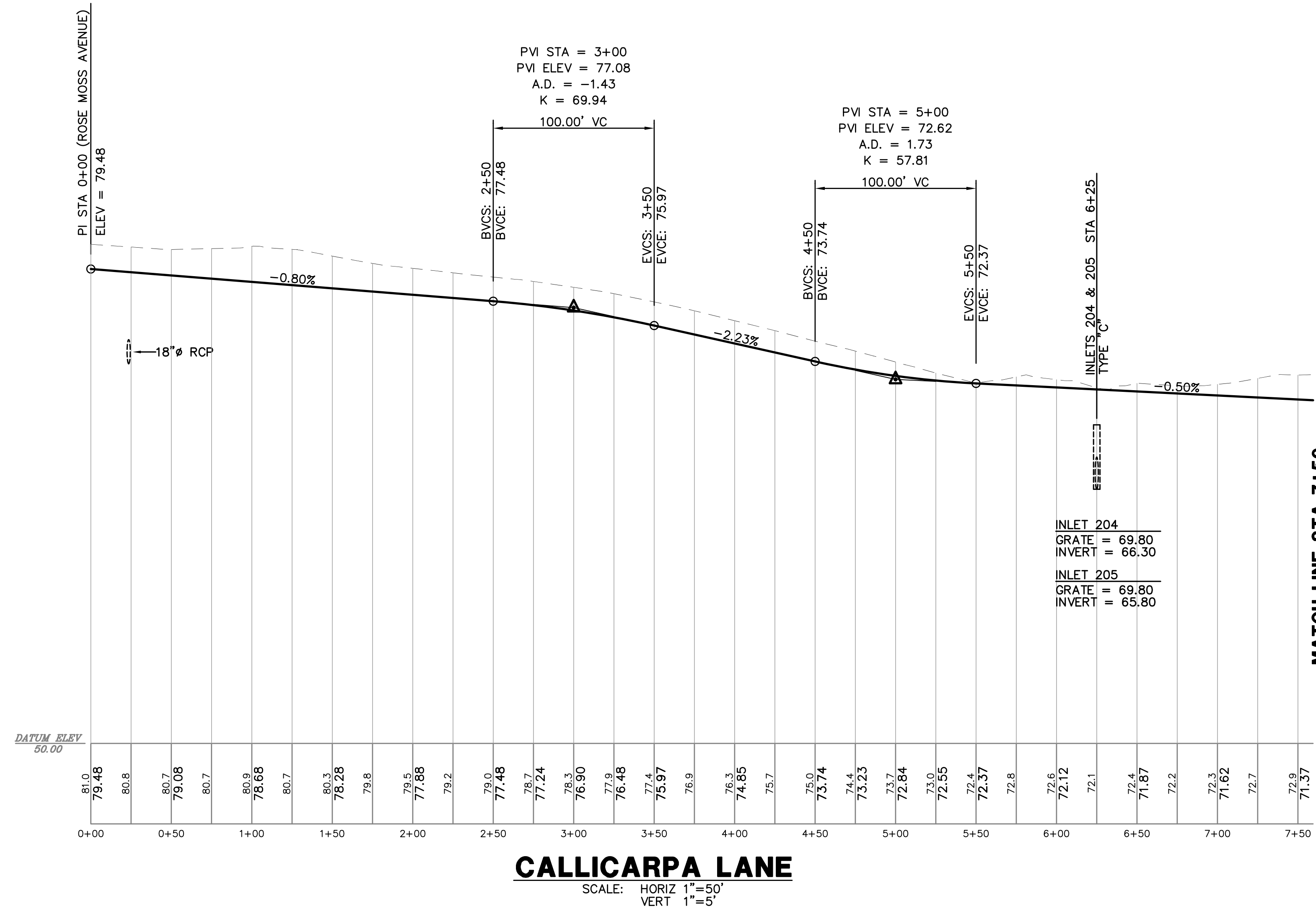
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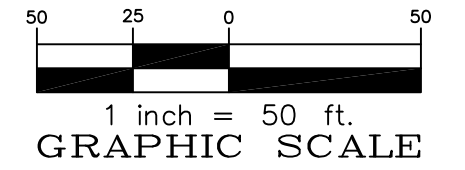
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24"x30" R2-1 SPEED LIMIT 25 MPH SIGN INSTALLATION PER LAKE COUNTY SIGN SPECIFICATIONS FOR BUILDERS, CONTRACTORS AND DEVELOPERS.



**CALLICARPA LANE**  
SCALE: HORIZ 1"=50'  
VERT 1"=5'



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**PLAN & PROFILE - CALLICARPA LANE**

**MEADOW RIDGE - PHASE 2**

LAKE COUNTY FLORIDA

PROJECT NO. 18.07-004

DATE: 11/14/18

SCALE: 1"=50'

CHECKED: K.E.R.

DRAWN: R.S.H.

REV # 1  
REV # 2  
REV # 3  
REV # 4  
REV # 5

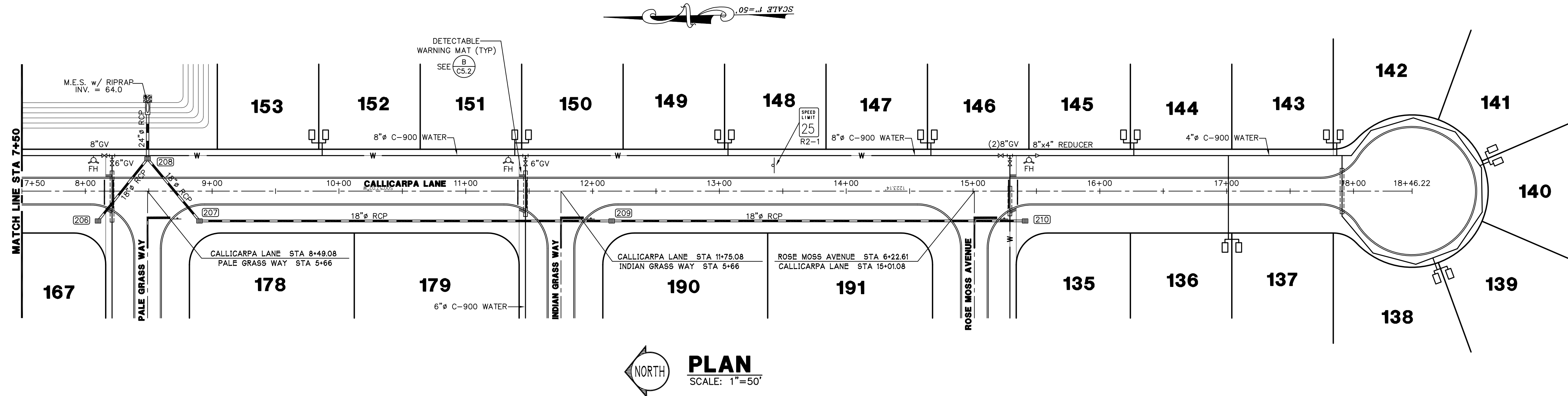
KEITH E. RIDDLE, P.E.  
FLA. REGIS. NO. 38800

1/23/19 REVISED PER LAKE COUNTY

RIDDLE - NEWMAN ENGINEERING, INC.  
115 NORTH CANAL STREET  
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FAX (352) 787-7412  
keith@riddlenewman.com  
CA# 00002853

**RIDDLE NEWMAN ENGINEERING INC.**  
ESTABLISHED 1971

SHEET NO. **C6.3**



**PLAN**  
SCALE: 1"=50'

**NOTES**

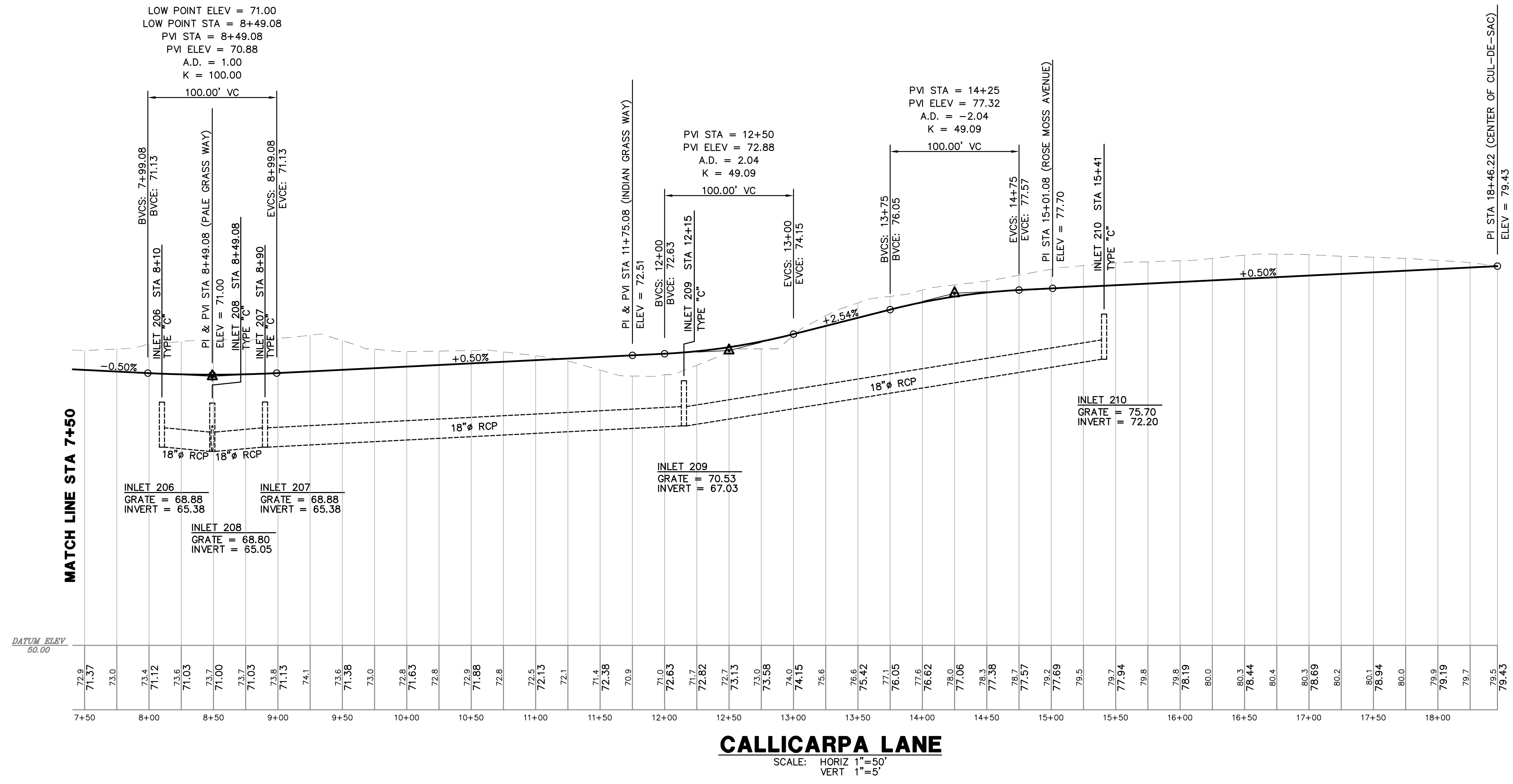
MITERED END SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 430-021.

TYPE "C" INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 425-052.

ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP).

ALL DITCH BOTTOM INLETS TO BE OPEN THROAT.

24"x30" R2-1 SPEED LIMIT 25 MPH SIGN INSTALLATION PER LAKE COUNTY SIGN SPECIFICATIONS FOR BUILDERS, CONTRACTORS AND DEVELOPERS.



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**PLAN & PROFILE - CALLICARPA LANE**

**MEADOW RIDGE - PHASE 2**  
FLORIDA

LAKE COUNTY

**RIDDLE - NEWMAN ENGINEERING, INC.**  
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 keith@riddlenewman.com  
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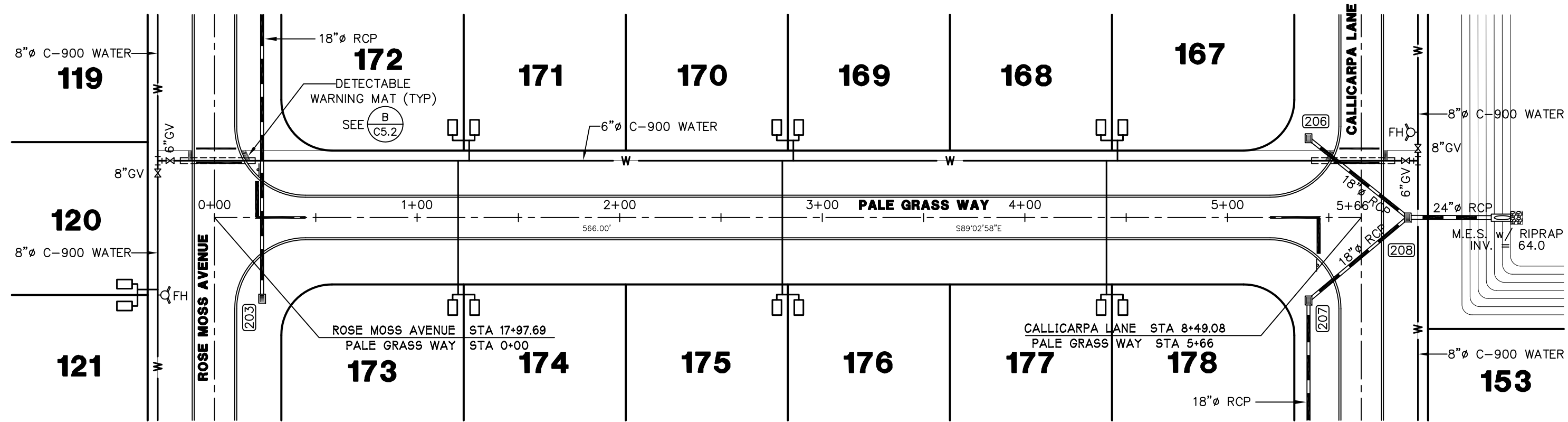
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REV #	REV #	REV #	REV #

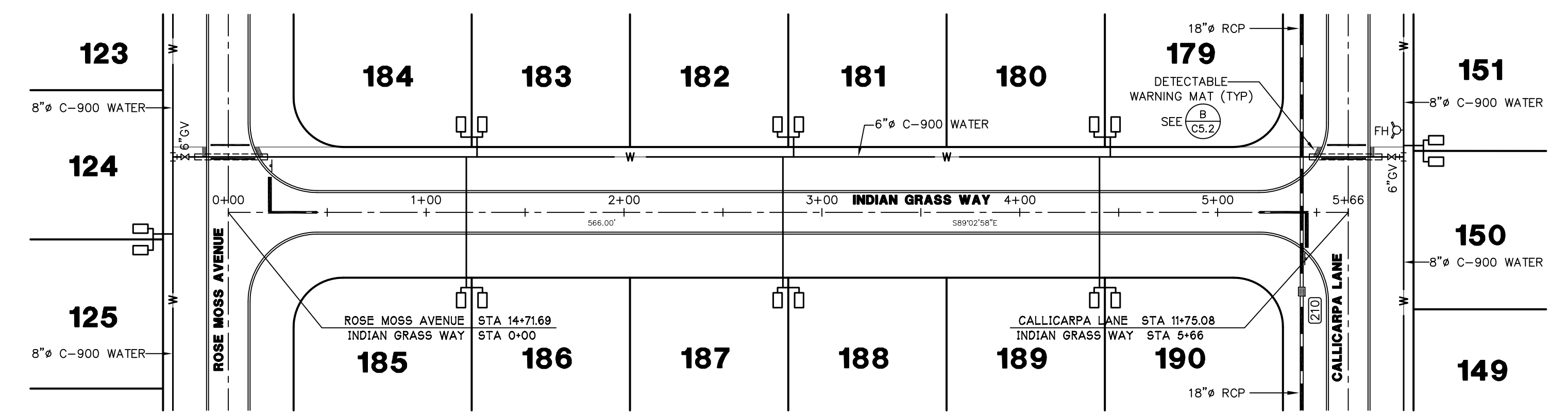
DATE: 11/14/18  
 PROJECT NO: 18.07-004  
 KEITH E. RIDDLE, P.E.  
 FLA. REGIS. NO. 38800

REVISION PER LAKE COUNTY 1/23/19

SHEET NO. **C6.4**



**PLAN**  
SCALE: 1"=50'



**PLAN**  
SCALE: 1"=50'

**NOTES**

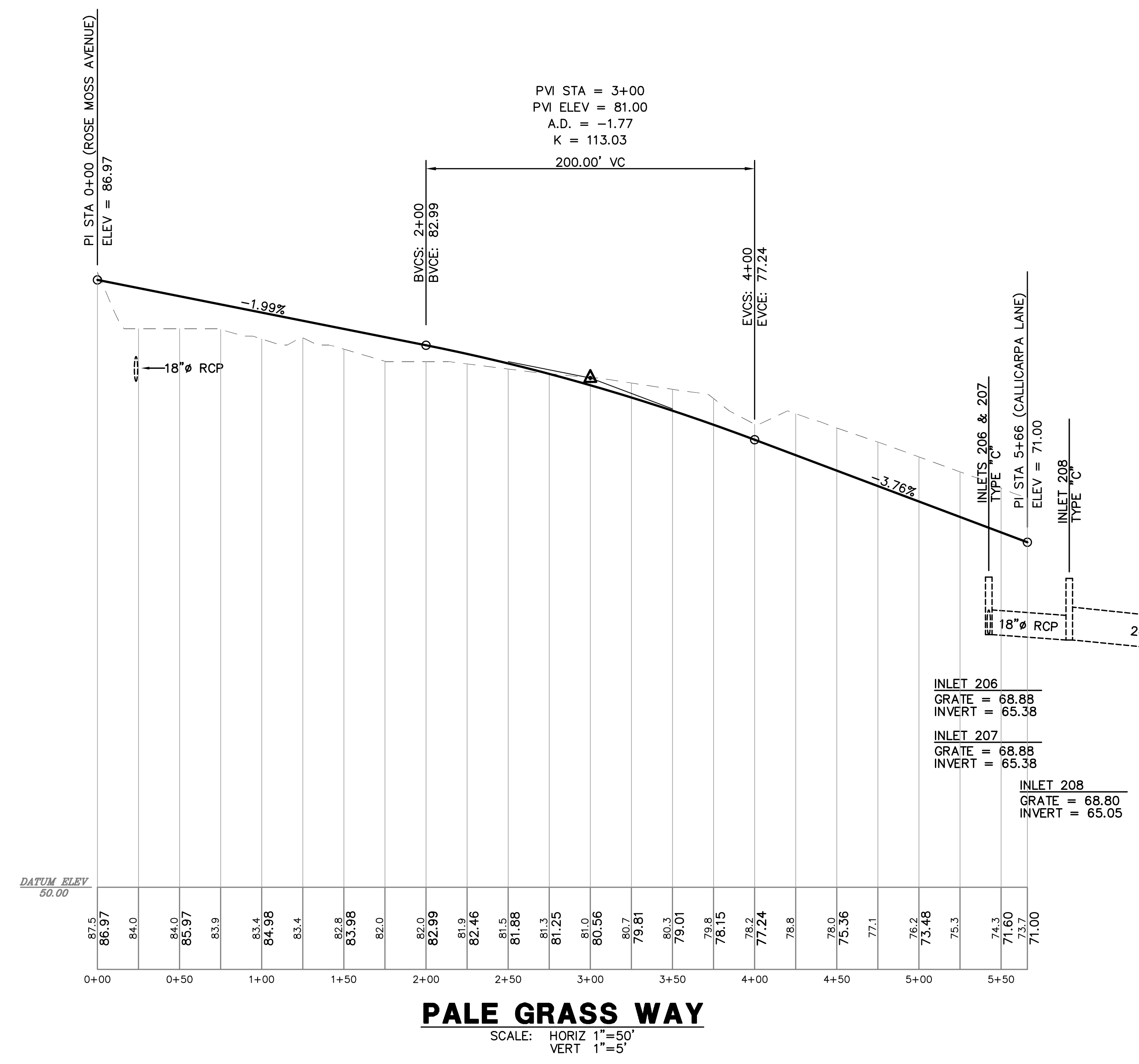
MITERED END SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 430-021.

TYPE "C" INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 425-052.

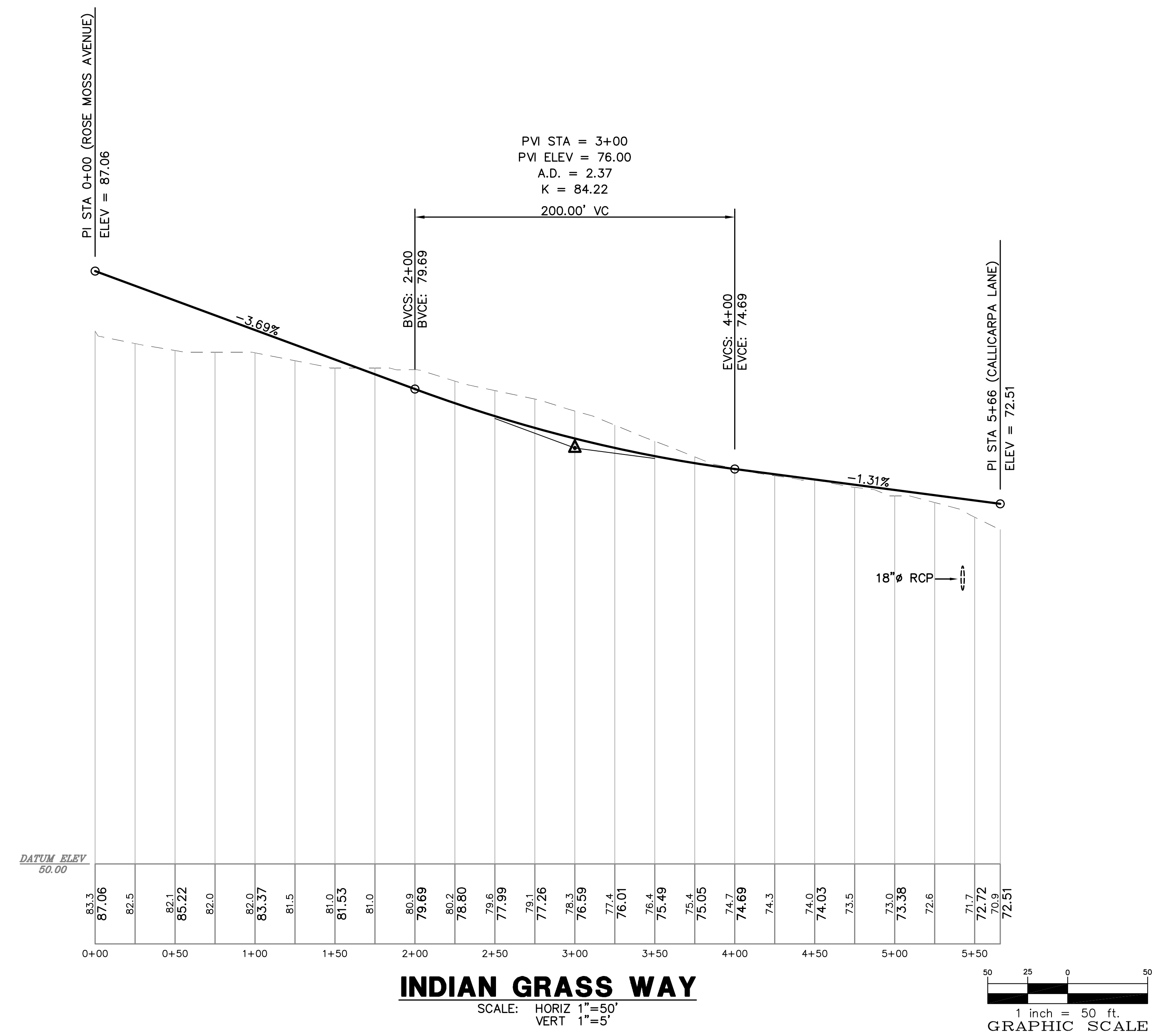
ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP).

ALL DITCH BOTTOM INLETS TO BE OPEN THROAT.

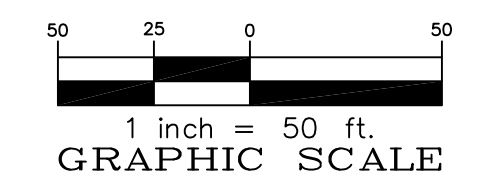
24"x30" R2-1 SPEED LIMIT 25 MPH SIGN INSTALLATION PER LAKE COUNTY SIGN SPECIFICATIONS FOR BUILDERS, CONTRACTORS AND DEVELOPERS.



**PALE GRASS WAY**  
SCALE: HORIZ 1"=50'  
VERT 1"=5'



**INDIAN GRASS WAY**  
SCALE: HORIZ 1"=50'  
VERT 1"=5'



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REV #	REV #	REV #	REV #

KEITH E. RIDDLE, P.E.  
FLA. REGIS. NO. 38800  
REVISED PER LAKE COUNTY 1/23/19

**PLAN & PROFILE - PALE GRASS WAY & INDIAN GRASS WAY**

**MEADOW RIDGE - PHASE 2**  
FLORIDA

LAKE COUNTY

**C6.5**

DRAWN: R.S.H.  
CHECKED: K.E.R.  
SCALE: 1"=50'  
DATE: 11/14/18  
PROJECT NO: 18.07-004

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STOP BAR  
STOP SIGN  
PARALLEL WHITE CROSSWALKS  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR

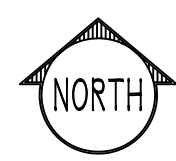
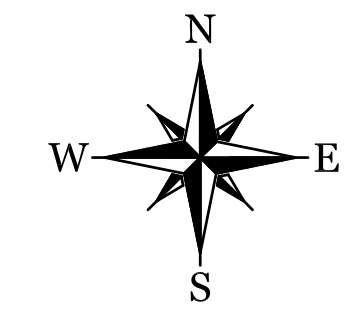
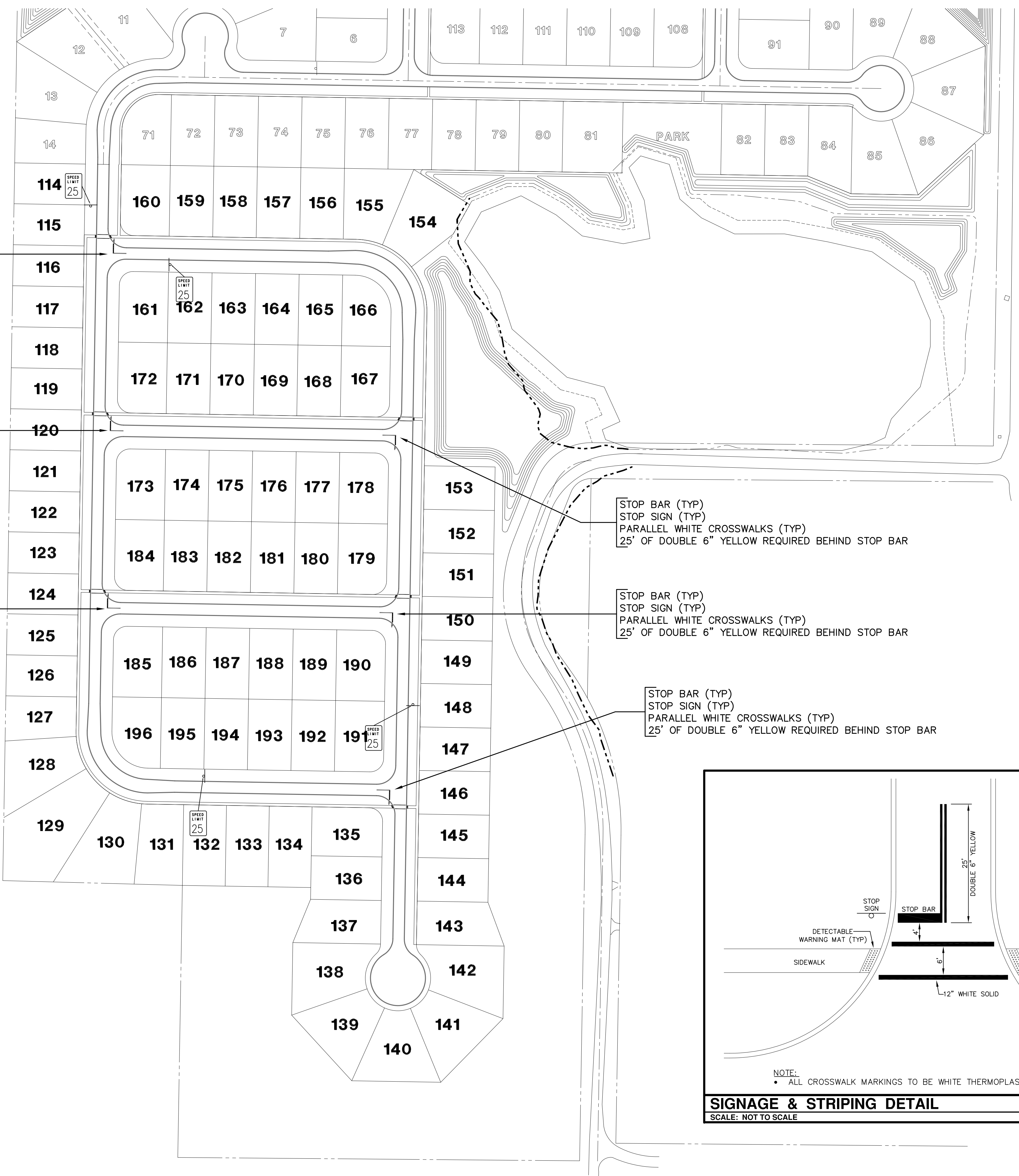
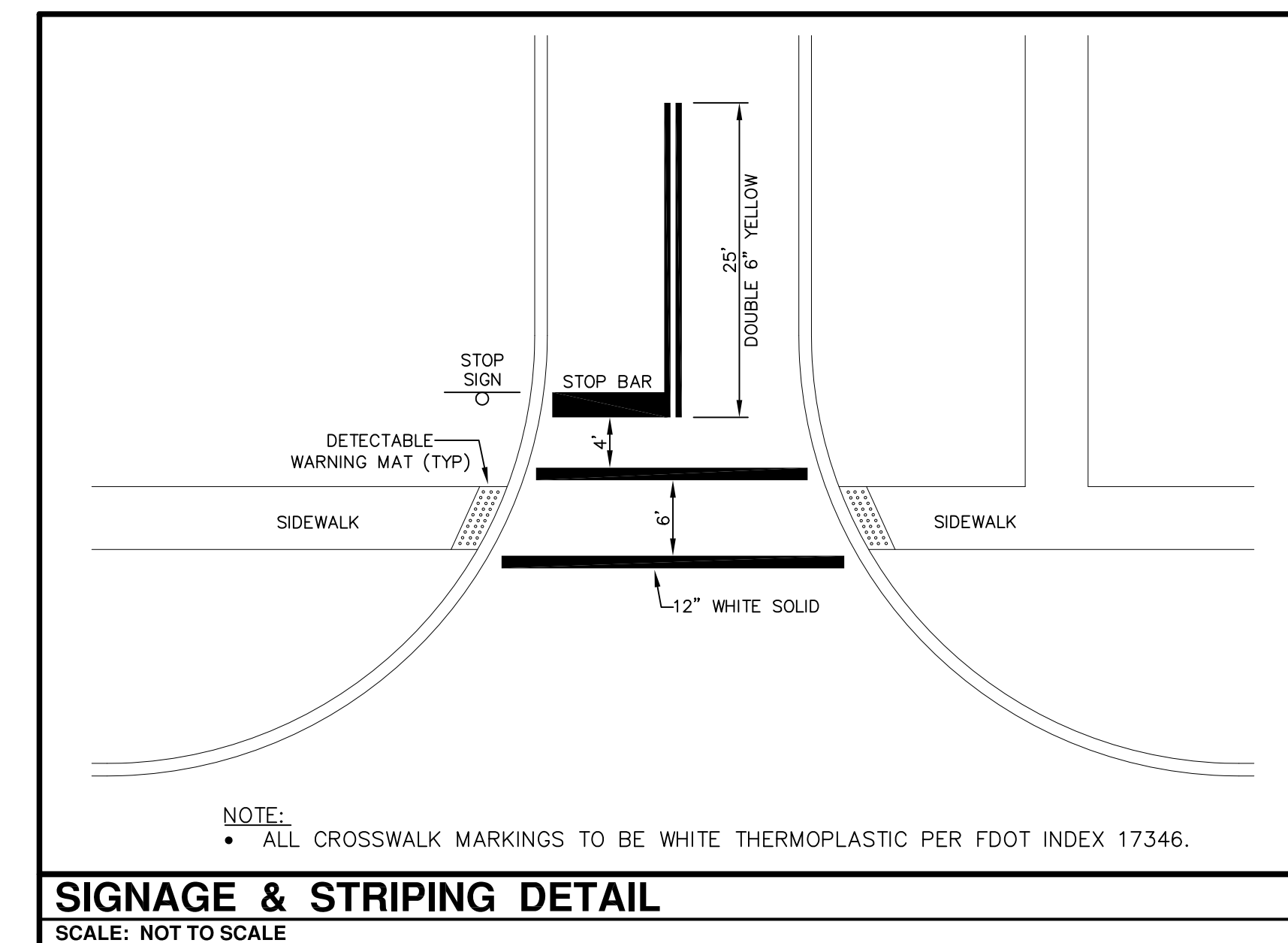
STOP BAR  
STOP SIGN  
PARALLEL WHITE CROSSWALKS  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR

STOP BAR  
STOP SIGN  
PARALLEL WHITE CROSSWALKS  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR

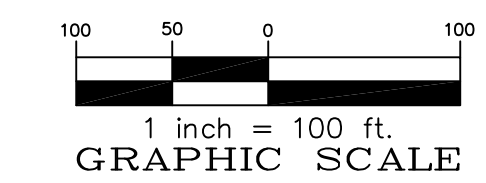
STOP BAR (TYP)  
STOP SIGN (TYP)  
PARALLEL WHITE CROSSWALKS (TYP)  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR

STOP BAR (TYP)  
STOP SIGN (TYP)  
PARALLEL WHITE CROSSWALKS (TYP)  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR

STOP BAR (TYP)  
STOP SIGN (TYP)  
PARALLEL WHITE CROSSWALKS (TYP)  
25' OF DOUBLE 6" YELLOW REQUIRED BEHIND STOP BAR



**SIGNAGE & STRIPING PLAN**  
SCALE: 1"=100'



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DRAWN: R.S.H.	CHECKED: K.E.R.	SCALE: 1"=100'	DATE: 11/14/18	PROJECT NO: 18.07-004
<b>SIGNAGE &amp; STRIPING PLAN</b>				
<b>MEADOW RIDGE - PHASE 2</b>				
LAKE COUNTY FLORIDA				
SHEET NO. <b>C7.1</b>				

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