

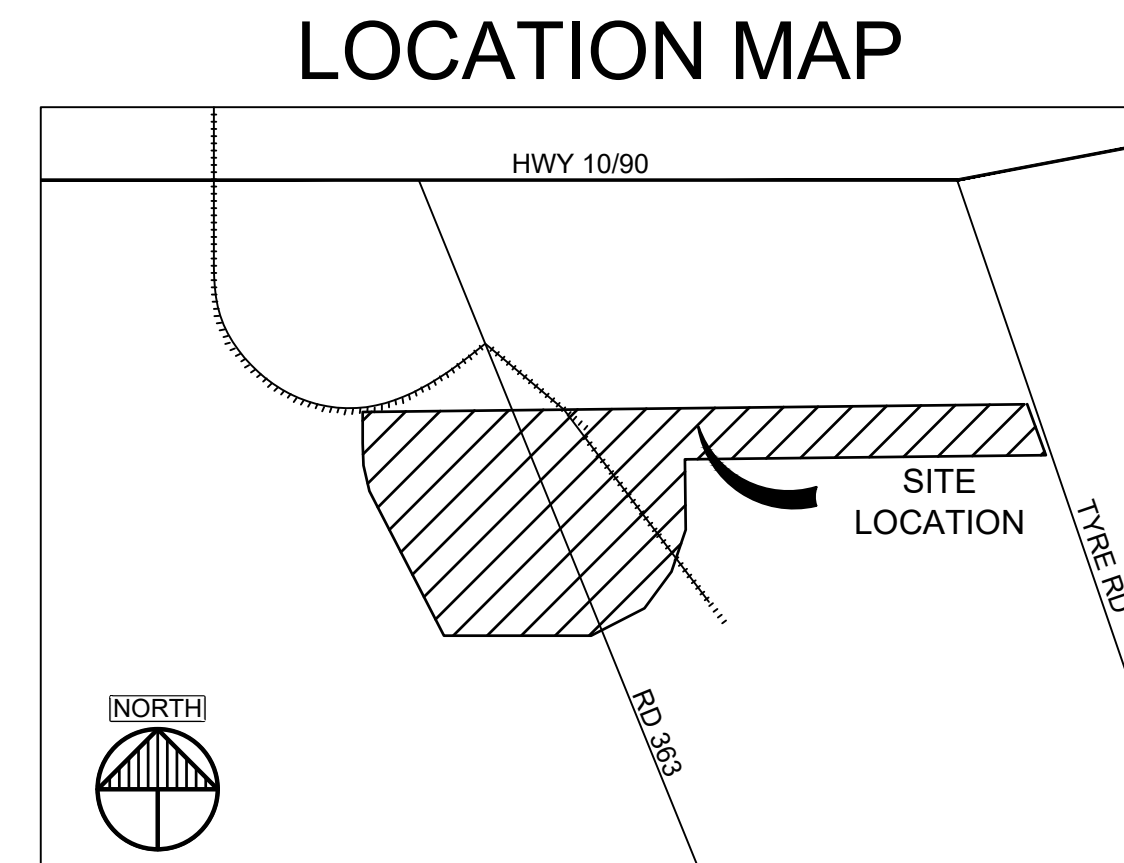
SITework FOR NEW LIQUID FERTILIZER FACILITY

LAKE CITY, FL



VAA, LLC 763.559.9100
2300 Berkshire Lane N, Suite 200 www.vaaeng.com
Plymouth, MN 55441 Project # 230384

PROJECT TEAM	
OWNER:	TODD CRESSMAN AGROLIQUID 3055 W M-21 SAINT JOHNS, MI 48879
CONTRACTOR / SITE MANAGER:	GREYSTONE CONSTRUCTION 2995 WINNERS CIRCLE DRIVE, SUITE 200 SHAKOPEE, MN 55379
CIVIL:	VAA, LLC 2300 BERKSHIRE LANE NORTH, SUITE 200 PLYMOUTH, MN 55441 CONTACT: ALEX RAKOS EMAIL: ARAKOS@VAAENG.COM PHONE: (763) 559-9100



INDEX OF DRAWINGS

INDEX OF DRAWINGS		DESIGN DEVELOPMENT	ISSUED FOR PERMIT	ADDENDUM 1	OWNER CHECK SET	SITE PLAN UPDATES	ISSUED FOR CONSTRUCTION
		10/19/2023	12/11/2023	01/04/2024	09/11/2024	11/12/2024	05/09/2025
SHEET NO.	DESCRIPTION						
C001	TITLE SHEET AND DRAWING INDEX	■	■	■	■	■	■
-	CERTIFIED BOUNDARY SURVEY						
C101	OVERALL EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C102	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C103	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C104	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C105	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C106	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C107	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C108	EXISTING CONDITIONS AND REMOVALS PLAN	■	■	■	■	■	■
C201	OVERALL SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C202	SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C203	SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C204	SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C205	SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C206	SITE PAVING AND UTILITY PLAN	■	■	■	■	■	■
C207	SITE PAVING AND UTILITY PLAN	■	■		■	■	■
C208	SITE PAVING AND UTILITY PLAN	■	■		■	■	■
C251	COUNTY UTILITY PLAN				■	■	■
C252	WATERMAIN PLAN AND PROFILE				■	■	■
C301	OVERALL GRADING AND DRAINAGE PLAN	■	■	■	■	■	■

INDEX OF DRAWINGS

[illegible]

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Email: info@greystoneconstruction.com
Website: GreystoneConstruction.com

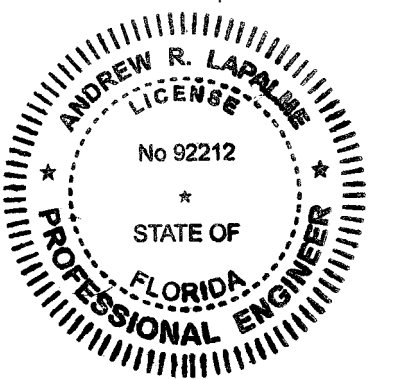
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION:

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Reason:
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by Andrew
LaPalme
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ANDREW R. LAPALME, PE
Registration No. 92212

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DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKED: ARL		APPROVED: MDM

DRAWING TITLE:

TITLE SHEET AND DRAWING INDEX

PROJECT NO:

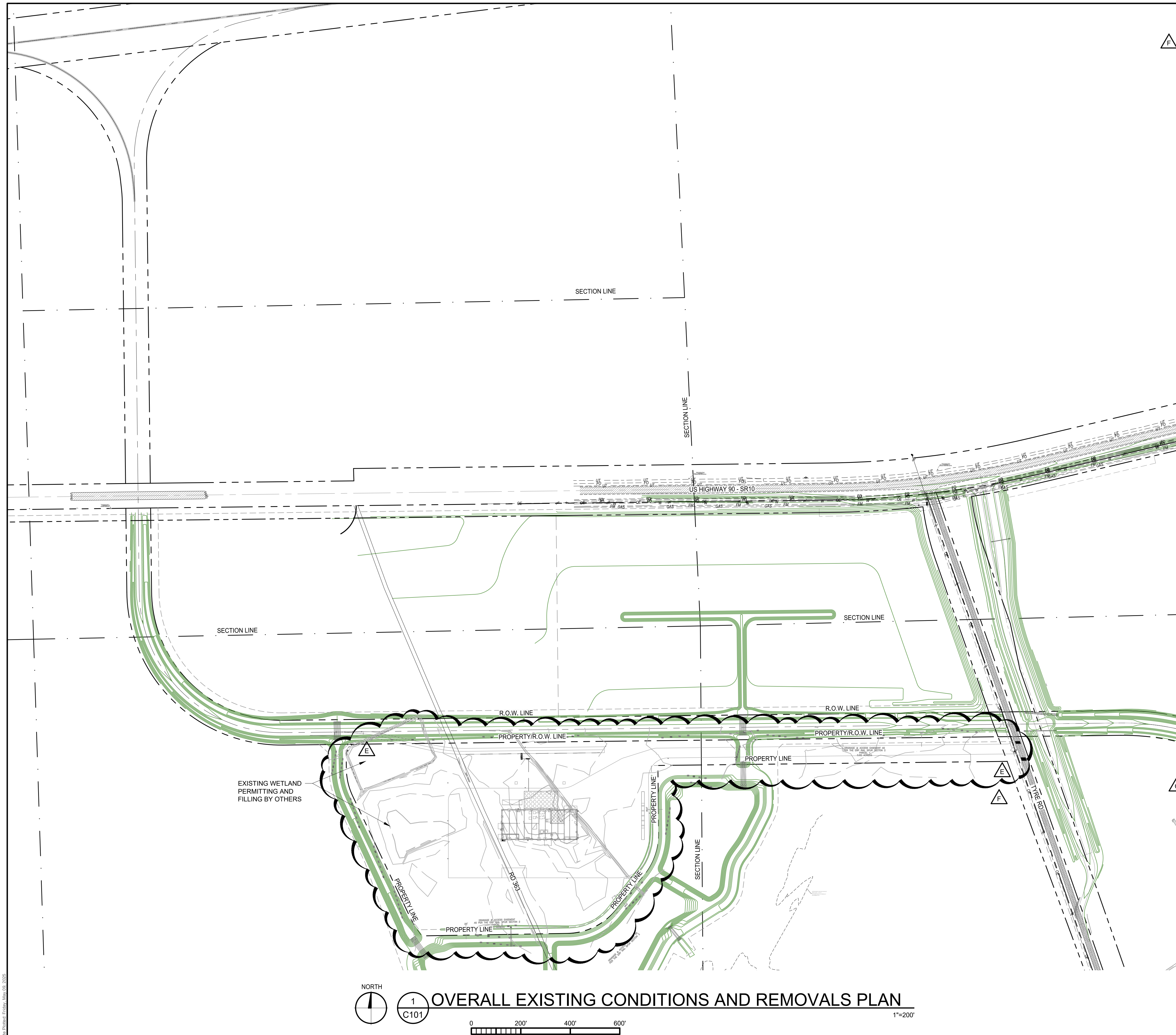
230384

SCALE:

DRAWING NO:

C001

**ISSUED FOR
CONSTRUCTION**



GENERAL NOTES

1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS, PROJECT NUMBER 25-082, DATED 03/03/2025. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
2. SUBSURFACE GEOTECHNICAL INVESTIGATION BY TERRACON, PROJECT NUMBER EQ245024, DATED 04/10/2025.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO REMEDY FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXPENSE.
6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. COORDINATE LOCATION OF MANHOLE COVER AND CASTING SO THAT IT IS PROPERLY LOCATED AT THE BACK OF CURBLINE FOR THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS, AS REQUIRED; TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE OBTAINED.
12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PURCHASE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
15. TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.



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Plymouth, MN 55441 Project # 230384

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Website: GreystoneConstruction.com

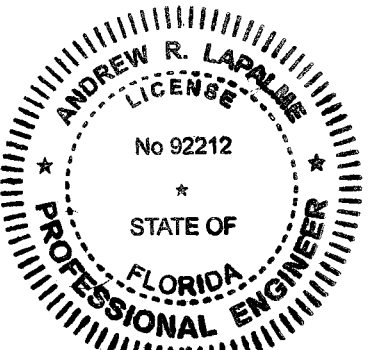
PROJECT:

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FERTILIZER FACILITY
LAKE CITY, FL

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DATE:
10/19/2023

DRAWN:
RCQ

DESIGNED:
AJR

CHECKED:
ARL

APPROVED:
MDM

DRAWING TITLE:

OVERALL EXISTING CONDITIONS AND REMOVALS PLAN

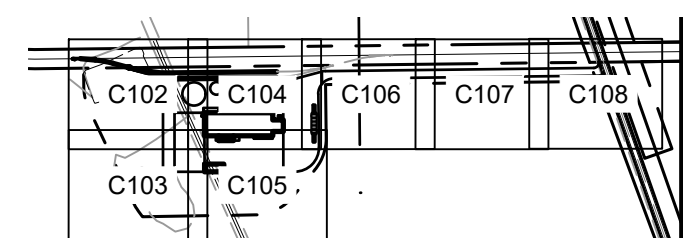
PROJECT NO:
230384

SCALE:
AS NOTED

DRAWING NO: 010

EXISTING TEST WELL (NOT SURVEYED) TO BE
FIELD VERIFIED AND ABANDONED IN PLACE.
CONTRACTOR SHALL ENSURE ALL
APPROPRIATE REGULATORY REQUIREMENTS
ARE MET FOR CAPPING/ABANDONMENT OF
EXISTING TEST WELL

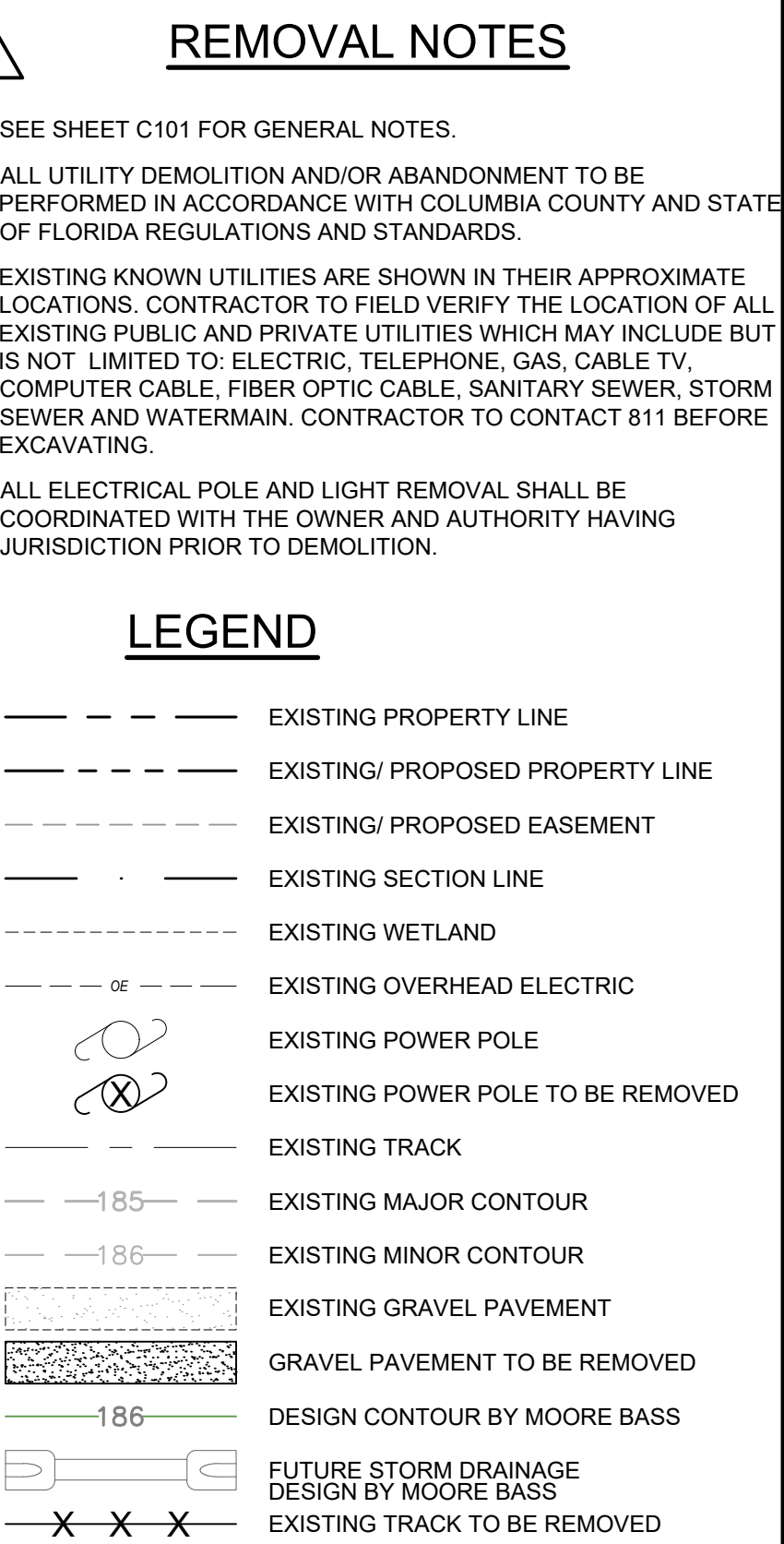
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2
C101

KEY PLAN


**ISSUED FOR
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A circular professional engineer seal for the State of Florida. The outer ring contains the text "ANDREW R. LAPALME" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "LICENSE" at the top, "No 9c22212" in the center, a small star below the number, "STATE OF" below the star, and "FLORIDA" at the bottom.

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DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

DRAWING TITLE:

EXISTING CONDITIONS
AND REMOVALS PLAN

PROJECT NO: 230384	DRAWING NO: C103
SCALE: AS NOTED	



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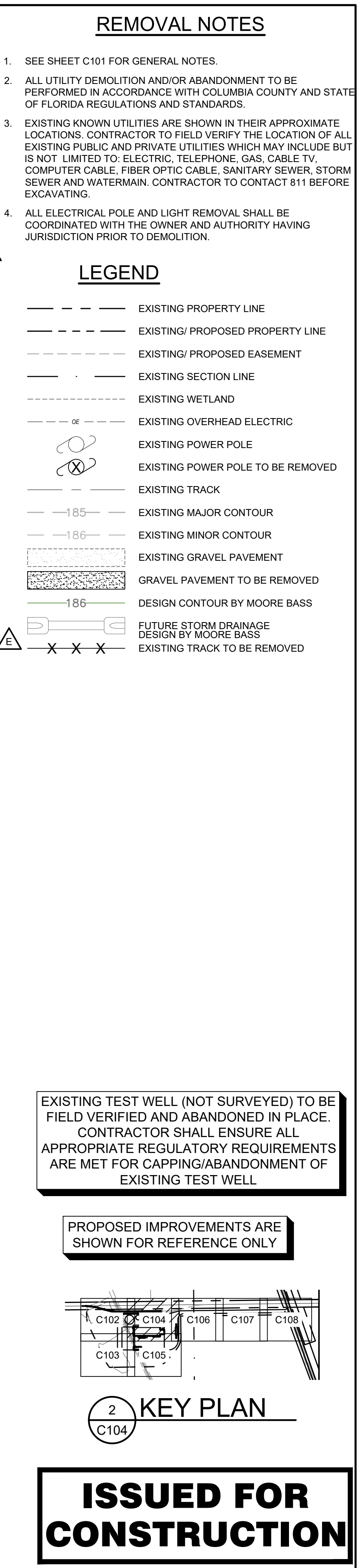
Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

PROJECT:


NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL



PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

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<p>ANDREW R. LAPALME, PE Registration No. 92212</p>	

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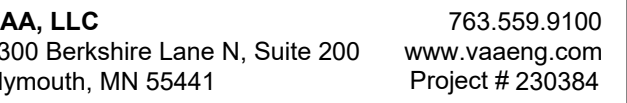
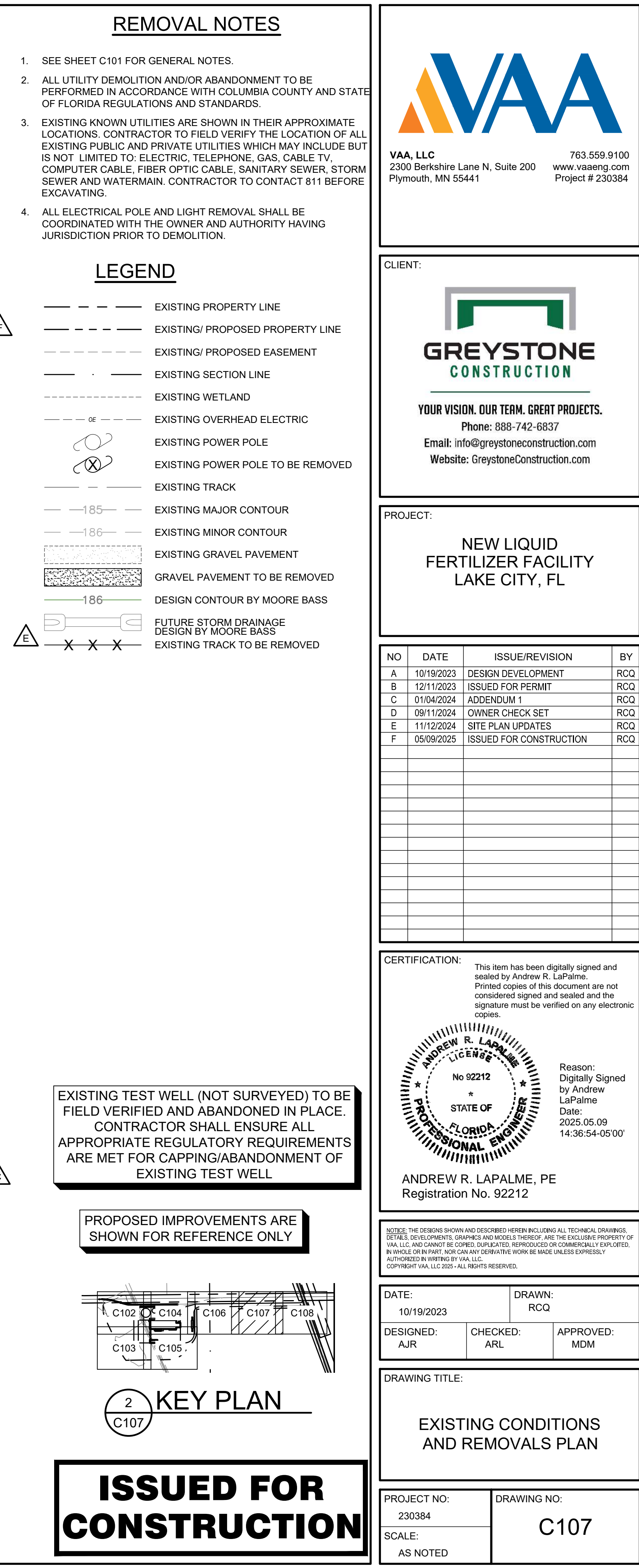
DRAWING TITLE:

EXISTING CONDITIONS
AND REMOVALS PLAN

PROJECT NO: 230384	DRAWING NO: C104
SCALE: AS NOTED	







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Phone: 888-742-6837

Phone: 888-742-6837

Email: info@greystoneconstruction.com

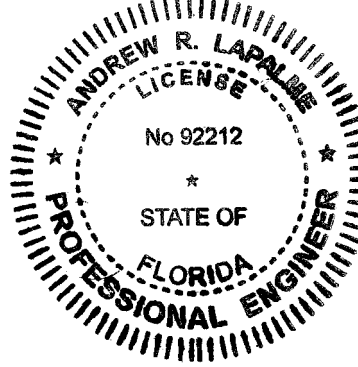
Website: GreystoneConstruction.com

PROJECT: _____

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

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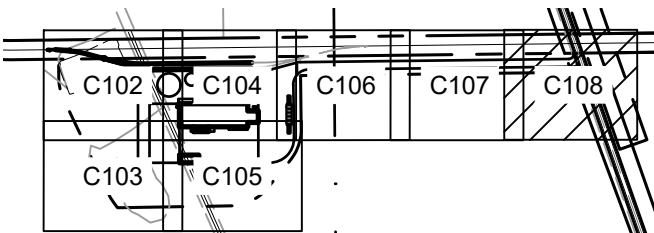
DRAWING TITLE:

EXISTING CONDITIONS AND REMOVALS PLAN

PROJECT NO: 230384	DRAWING NO: C107
SCALE: AS NOTED	



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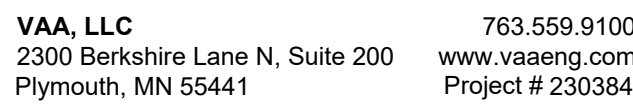


2 KEY PLAN

**ISSUED FOR
CONSTRUCTION**

1. SEE SHEET C101 FOR GENERAL NOTES.
2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.
3. EXISTING KNOWN UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE EXCAVATING.
4. ALL ELECTRICAL POLE AND LIGHT REMOVAL SHALL BE COORDINATED WITH THE OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO DEMOLITION.

	EXISTING PROPERTY LINE
	EXISTING/ PROPOSED PROPERTY LINE
	EXISTING/ PROPOSED EASEMENT
	EXISTING SECTION LINE
	EXISTING WETLAND
	EXISTING OVERHEAD ELECTRIC
	EXISTING POWER POLE
	EXISTING POWER POLE TO BE REMOVED
	EXISTING TRACK
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING GRAVEL PAVEMENT
	GRAVEL PAVEMENT TO BE REMOVED
	DESIGN CONTOUR BY MOORE BASS
	FUTURE STORM DRAINAGE DESIGN BY MOORE BASS
	EXISTING TRACK TO BE REMOVED



CLIENT:



PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

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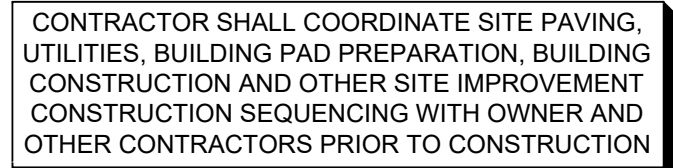
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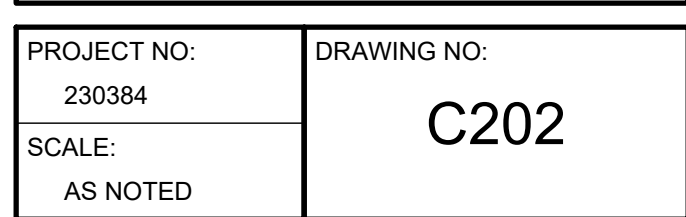
EXISTING CONDITIONS AND REMOVALS PLAN

PROJECT NO: 230384	DRAWING NO: C108
SCALE: AS NOTED	

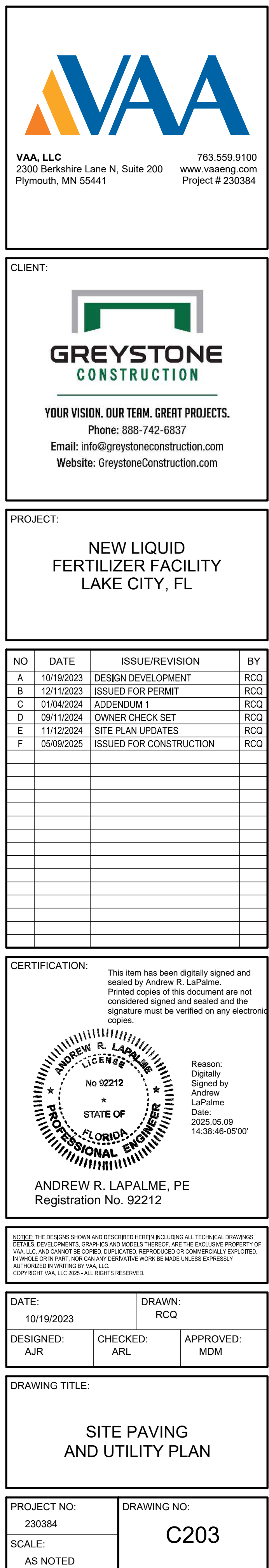


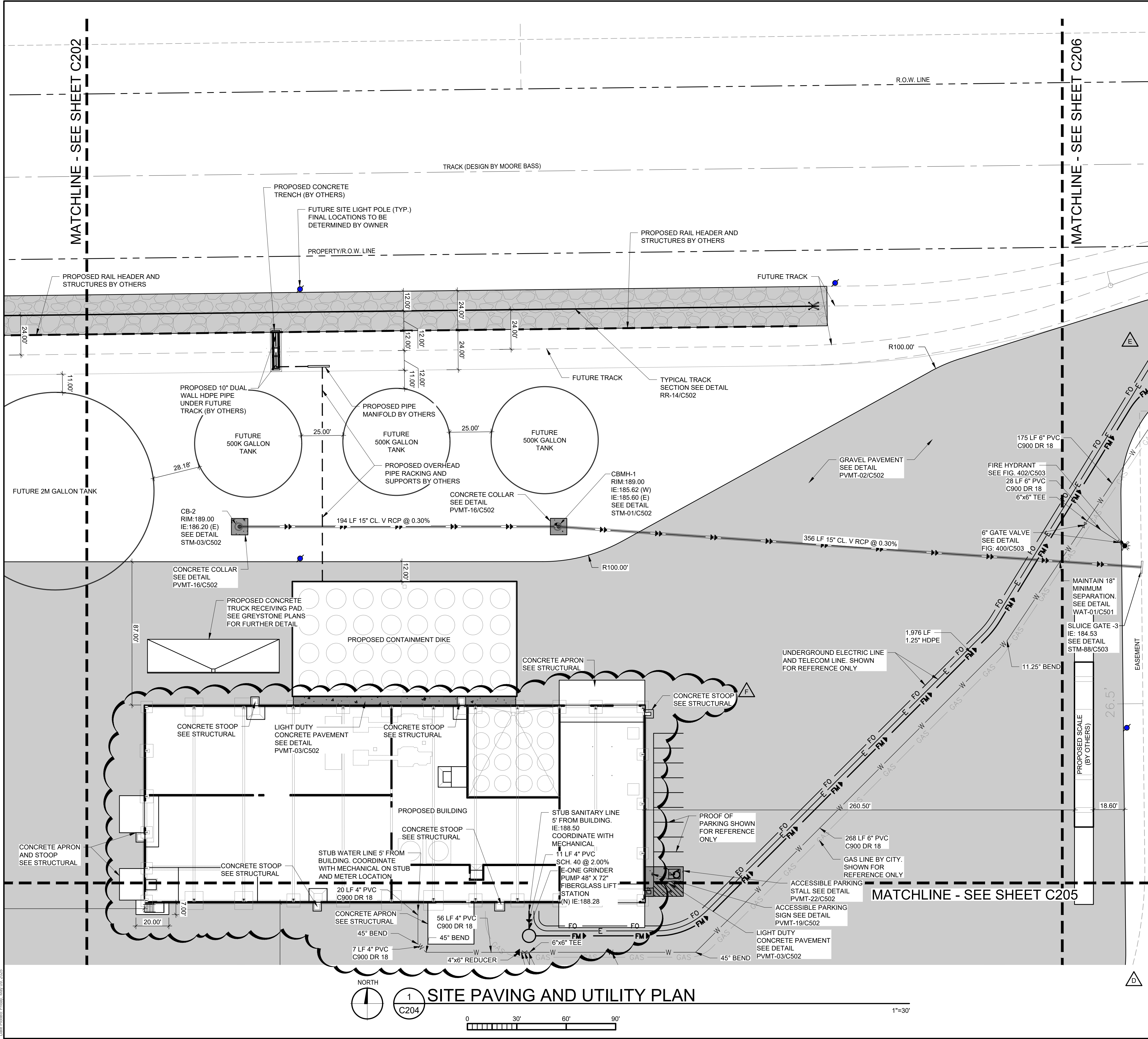
**ISSUED FOR
CONSTRUCTION**

C201



**ISSUED FOR
CONSTRUCTION**





UTILITY NOTES

- SEE SHEET C201 FOR GENERAL NOTES.
- ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.
- EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE EXCAVATING.
- PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
A. 3' OVER WATERMAIN
B. 3' OVER SANITARY SEWER
C. 1.5' OVER STORM SEWER

LEGEND

	PROPOSED STORM SEWER
	PROPOSED WATER LINE
	PROPOSED SANITARY LINE
	PROPOSED FORCEMAIN
	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED TELECOM LINE
	PROPOSED GAS LINE (BY CITY)
	PROPOSED TELECOM LINE (BY COUNTY)
	PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)
	PROPOSED WATER LINE (BY CITY)
	PROPOSED CBMH
	PROPOSED FES
	PROPOSED SLUICE GATE
	PROPOSED VALVE
	PROPOSED UTILITY POLE W/ GUY WIRE (BY POWER AND LIGHT)
	FUTURE SITE LIGHT POLE
	PROPOSED GRAVEL PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED SUBBALLAST
	EXISTING PROPERTY LINE
	EXISTING/ PROPOSED EASEMENT
	EXISTING SECTION LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING POWER POLE
	EXISTING GRAVEL PAVEMENT
	TRACK DESIGN BY MOORE BASS
	STORM DRAINAGE DESIGN BY MOORE BASS

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION.

SEE SPECIFICATIONS FOR THRUST BLOCKING REQUIREMENTS

KEY PLAN

ISSUED FOR CONSTRUCTION

VAA, LLC
2300 Berkshire Lane N, Suite 200
Plymouth, MN 55441

763.559.9100
www.vaaeng.com
Project # 230384

CLIENT:

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PROJECT:

**NEW LIQUID FERTILIZER FACILITY
LAKE CITY, FL**

NO	DATE	ISSUE/REVISION	BY
A	10/19/2023	DESIGN DEVELOPMENT	RCQ
B	12/11/2023	ISSUED FOR PERMIT	RCQ
C	01/04/2024	ADDENDUM 1	RCQ
D	09/11/2024	OWNER CHECK SET	RCQ
E	11/12/2024	SITE PLAN UPDATES	RCQ
F	05/09/2025	ISSUED FOR CONSTRUCTION	RCQ

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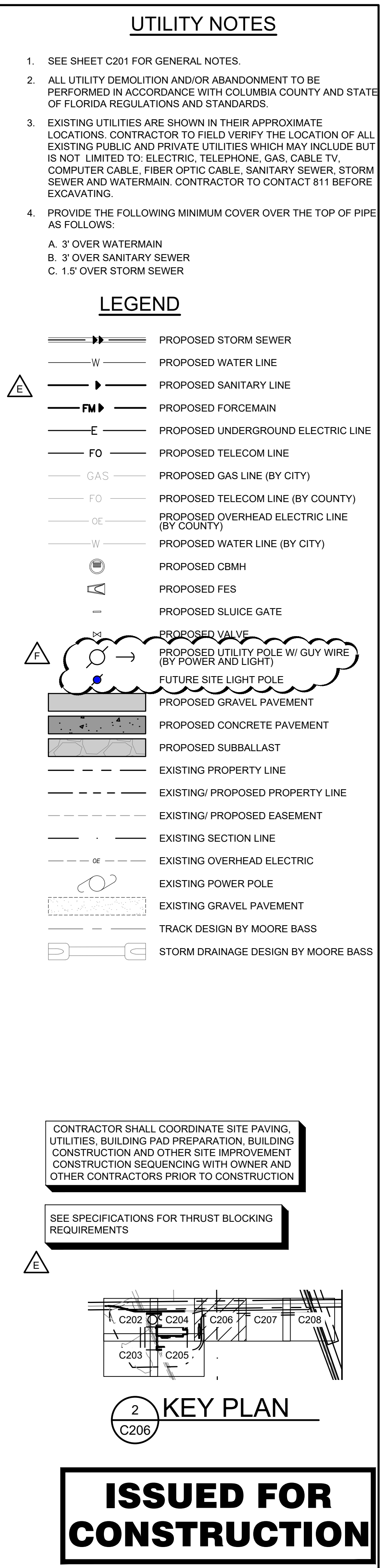
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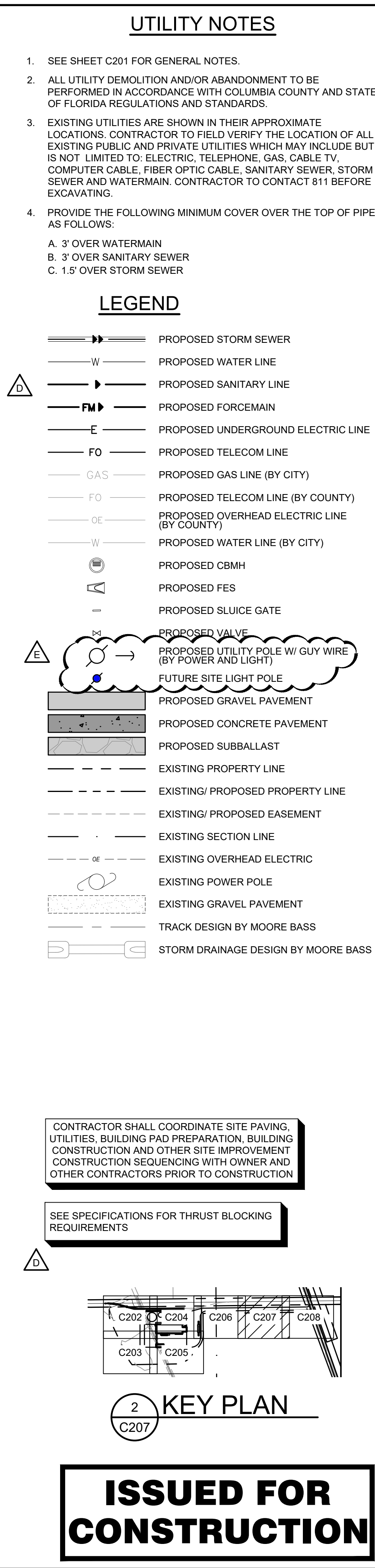
DATE:	10/19/2023	DRAWN:	RCQ
DESIGNED:	AJR	CHECKED:	ARL
		APPROVED:	MDM

DRAWING TITLE:

SITE PAVING AND UTILITY PLAN

PROJECT NO:	230384	DRAWING NO:	C204
SCALE:	AS NOTED		

[illegible]



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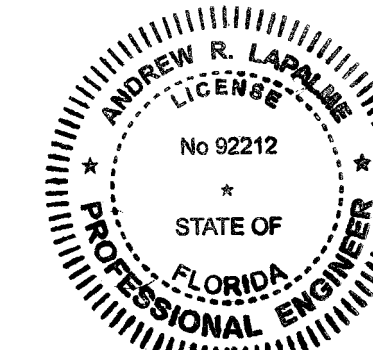
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DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

DRAWING TITLE

SITE PAVING AND UTILITY PLAN

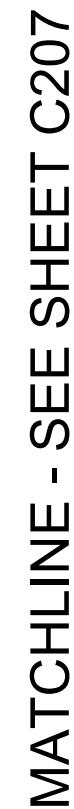
PROJECT NO:

230384

SCALE:

DRAWING NO:

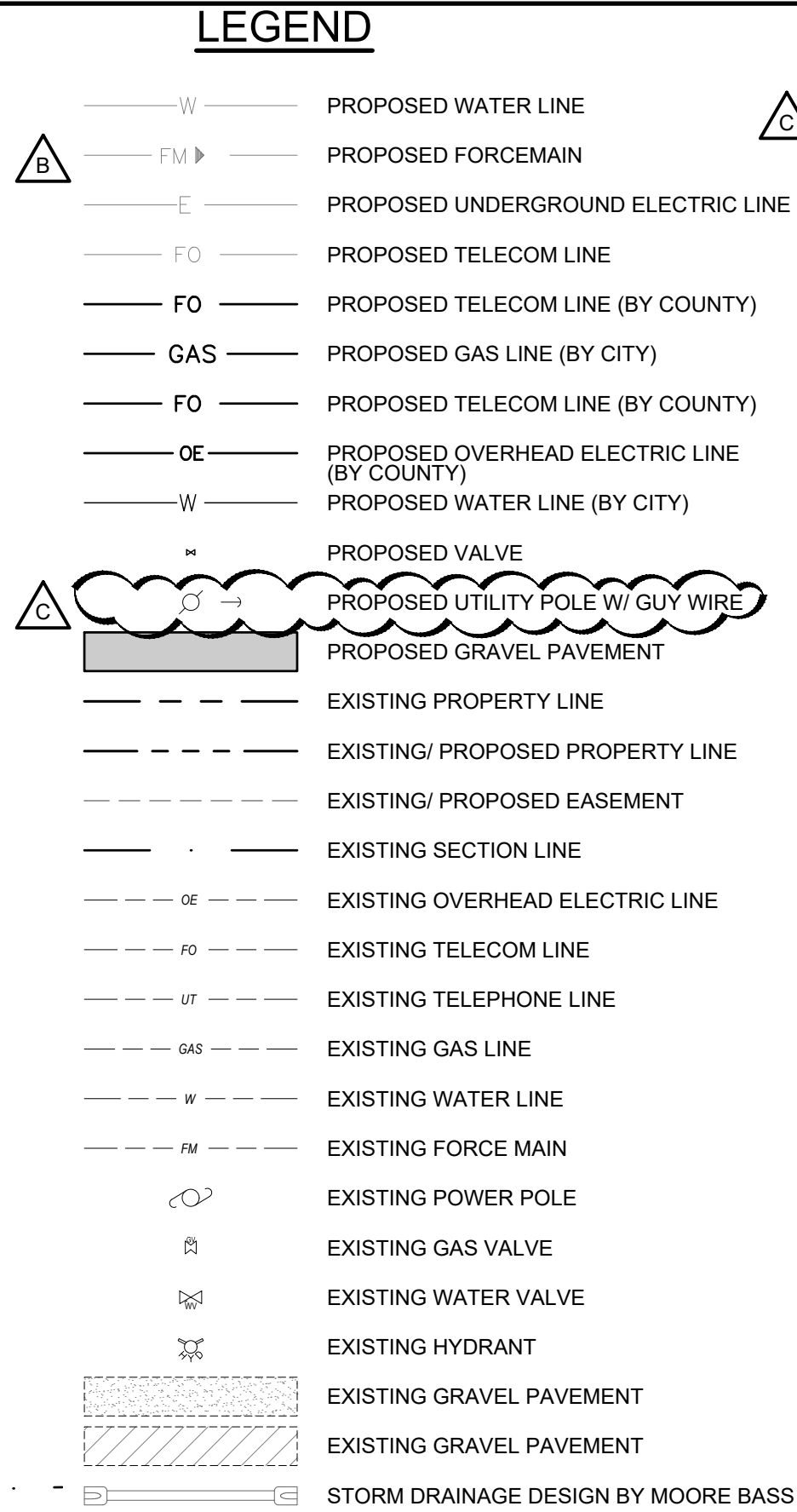
C207



PROPOSED 3,000 GAL VENTED
SEPTIC TANK WITH 90 DEGREE BEND
INSIDE THE HOLDING TANK TO MAKE
DOWNSPOUT FROM DISCHARGE
LINE. SEE DETAIL BY OLDCASTLE
PRECAST ON SHEET C504

**ISSUED FOR
CONSTRUCTION**





1. ALL EXISTING INFORMATION TAKEN FROM SURVEY BY L.D. BRADLEY LAND SURVEYORS, PROJECT NUMBER 25-082, DATED 03/03/2025. BACKGROUND DESIGN TOPOGRAPHY BASED ON DESIGN PLANS BY MOORE BASS PROJECT NUMBER 2021-189, DATED 03/13/2018. BACKGROUND SURVEY ON THESE DRAWINGS IS FOR REFERENCE ONLY.
2. SUBSURFACE GEOTECHNICAL INVESTIGATION BY TERRACON, PROJECT NUMBER EQ245024, DATED 04/10/2025.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION AND AFTER SITE CLEARING.
4. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO KEEP FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXPENSE.
6. ALL WORK TO CONFORM WITH COLUMBIA COUNTY AND STATE OF FLORIDA STANDARDS AND REGULATIONS.
7. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. COORDINATE LOCATION OF MANHOLE COVER AND CASTING SO THAT IT IS PROPERLY LOCATED AT THE BACK OF CURBLINE FOR THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
9. ALL PIPE LENGTHS INCLUDING FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
10. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER COLUMBIA COUNTY AND MUTCD REQUIREMENTS. AS REQUIRED: TRAFFIC CONTROL DESIGN, RELATED PERMITTING, AND DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE OBTAINED.
12. CONTRACTOR'S SURVEYOR SHALL RESET PERMANENT MONUMENTS AT LOCATIONS OF ALL NO FOUND MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION AT NO COST TO OWNER. CONTRACTOR'S SURVEYOR SHALL PREPARE A MONUMENT PRESERVATION CERTIFICATE IN ACCORDANCE WITH STATE LAW.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL REQUIREMENTS OF THE ADJACENT RAILROAD PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO PERMITS, INSURANCE REQUIREMENTS, FLAGGERS, AND NOTIFICATIONS.
14. CONTRACTOR SHALL SCHEDULE AND PAY FOR RAILROAD FLAGMEN FOR ALL WORK, IN THIS CONTRACT, WITHIN 25' OF THE MAINLINE.
15. **TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.**

1. SEE SHEET C201 FOR GENERAL NOTES.
2. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND STATE OF FLORIDA REGULATIONS AND STANDARDS.
3. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATERMAIN. CONTRACTOR TO CONTACT 811 BEFORE EXCAVATING.
4. PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
 - A. 3' OVER WATERMAIN
 - B. 3' OVER SANITARY SEWER
 - C. 1.5' OVER STORM SEWER

SEE SHEET C252 FOR
WATERMAIN PLAN AND PROFILE

**ISSUED FOR
CONSTRUCTION**



CLIENT:



YOUR VISION. OUR TEAM. GREAT PROJECTS

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

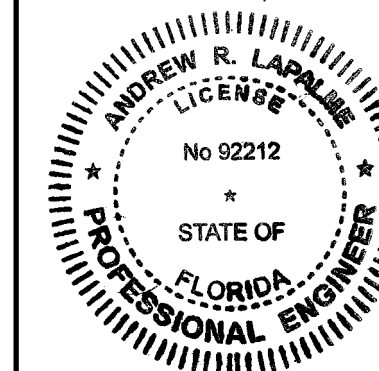
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION

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Reason:
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Andrew
LaPalme
Date:
2025.05.09
14:42:33-05'00

ANDREW R. LAPALME, PE
Registration No. 92212

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DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKED: ARL		APPROVED: MDM

DRAWING TITLE:


WATERMAIN PLAN AND PROFILE

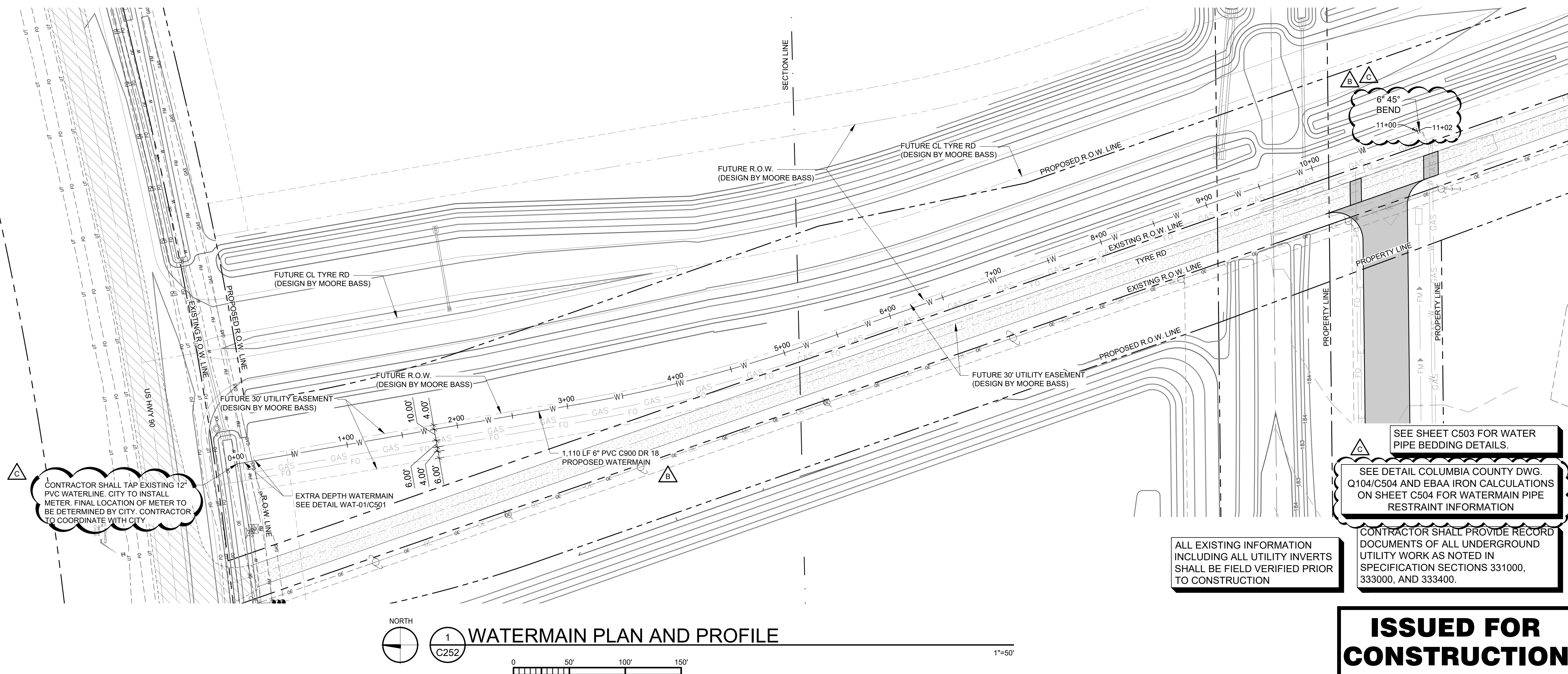
PROJECT NO:

230384

SCALE:
AS NOTED

DRAWING NO:

 C252



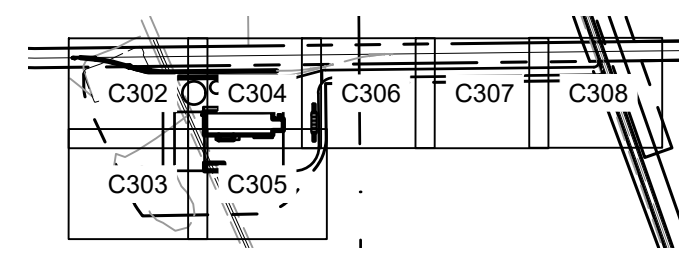
**ISSUED FOR
CONSTRUCTION**



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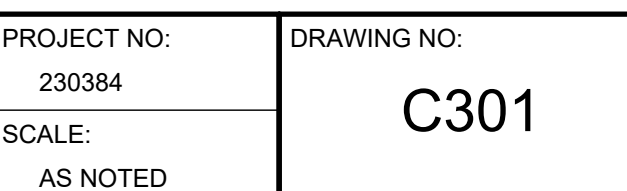
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9. ALL PIPE LENGTHS INCLUDE FES. CONTRACTOR/SURVEYOR TO STAKE THE END OF FES FOR LOCATION.
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15. **TRACKWORK & EARTHWORK SHALL NOT COMMENCE UNTIL ALL LEASE AGREEMENTS BETWEEN THE OWNER AND MAINLINE/SHORTLINE HAVE BEEN MADE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WORK.**

UPPER 6-INCHES OF MATERIAL UNDER BUILDING SLAB SHALL BE GRADED AGGREGATE BASE PER SECTION 204 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. A MIN. DENSITY OF 98% OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) SHOULD BE ACHIEVED IN THE SLAB "BASE" LAYER



2 KEY PLAN

**ISSUED FOR
CONSTRUCTION**





1. SEE SHEET C301 FOR GENERAL NOTES.
2. PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE, PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
3. SEE SWPPP SHEET C801 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
4. SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.

190 — PROPOSED CONTOUR

— PROPOSED STORM SEWER

— W — PROPOSED WATER LINE

— PROPOSED SANITARY LINE

△ FM — PROPOSED FORCEMAIN

△ E — PROPOSED UNDERGROUND ELECTRIC LINE

— FO — PROPOSED TELECOM LINE

— GAS — PROPOSED GAS LINE (BY CITY)

— FO — PROPOSED TELECOM LINE (BY COUNTY)

△ OE — PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY)

△ W — PROPOSED WATER LINE (BY CITY)

— — — PROPOSED GRADE BREAK

VAA, LLC 763.559.9100
2300 Berkshire Lane N, Suite 200 www.vaaeng.com
Plymouth, MN 55441 Project # 23038

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Website: GreystoneConstruction.com

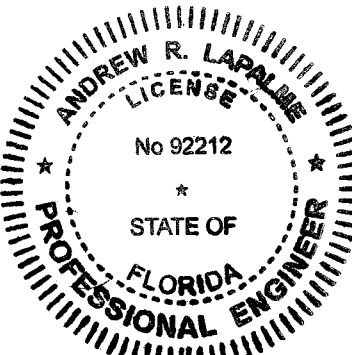
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION

This item has been digitally signed and sealed by Andrew R. LaPalme.
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Reason:
Digitally Signed
by Andrew
LaPalme
Date:
2025.05.09
14:44:00-05'00

ANDREW R. LAPALME, PE
Registration No. 92212

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DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

DRAWING TITLE

GRADING AND DRAINAGE PLAN

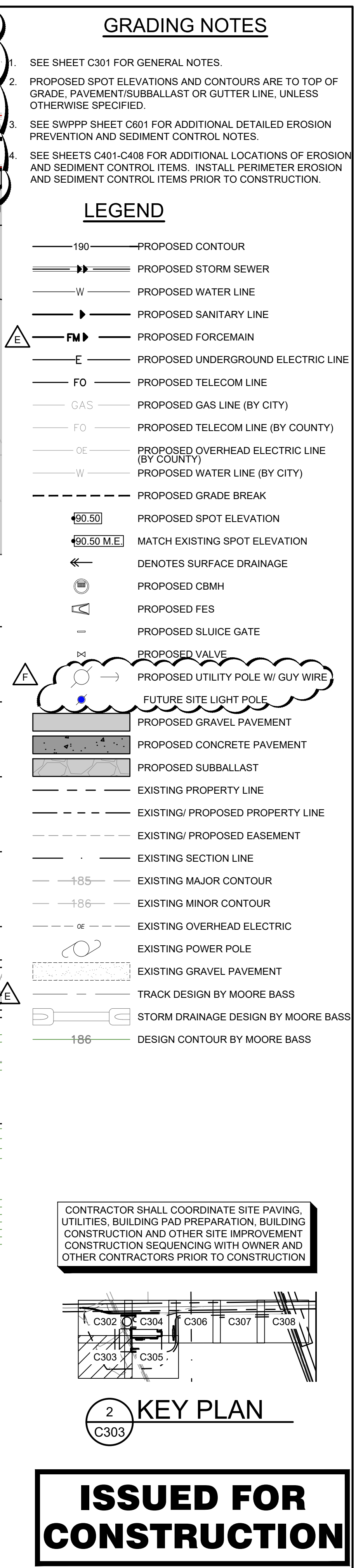
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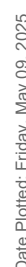
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SCALE:

DRAWING NO

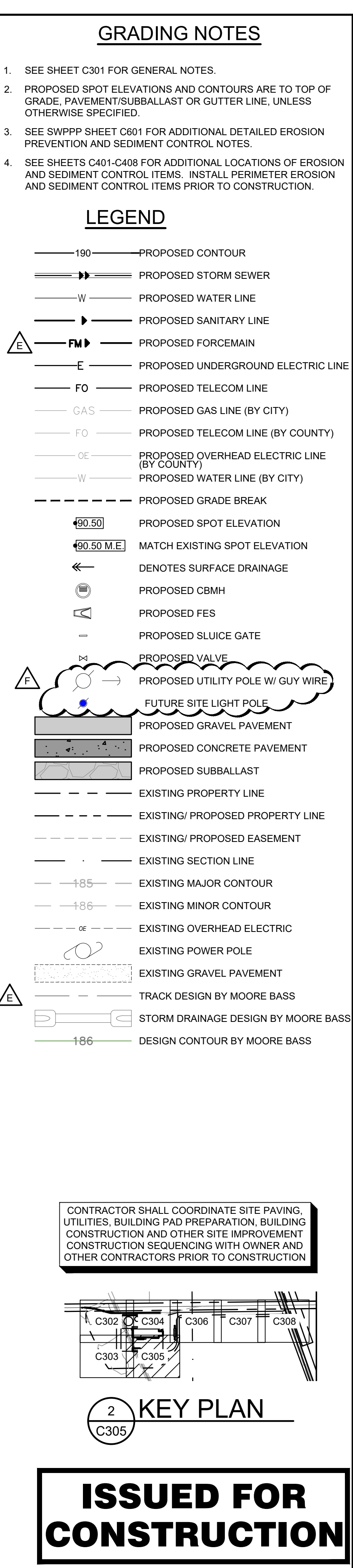
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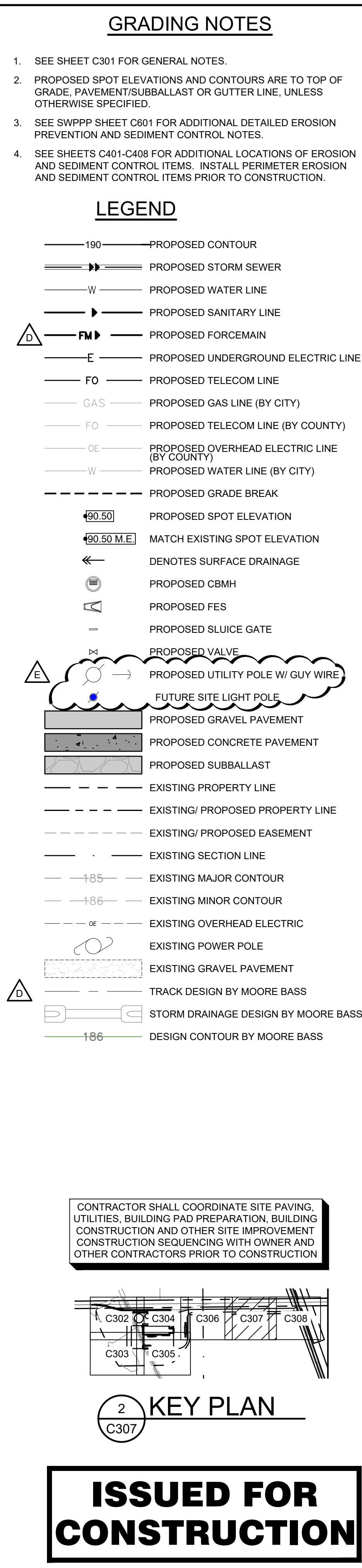
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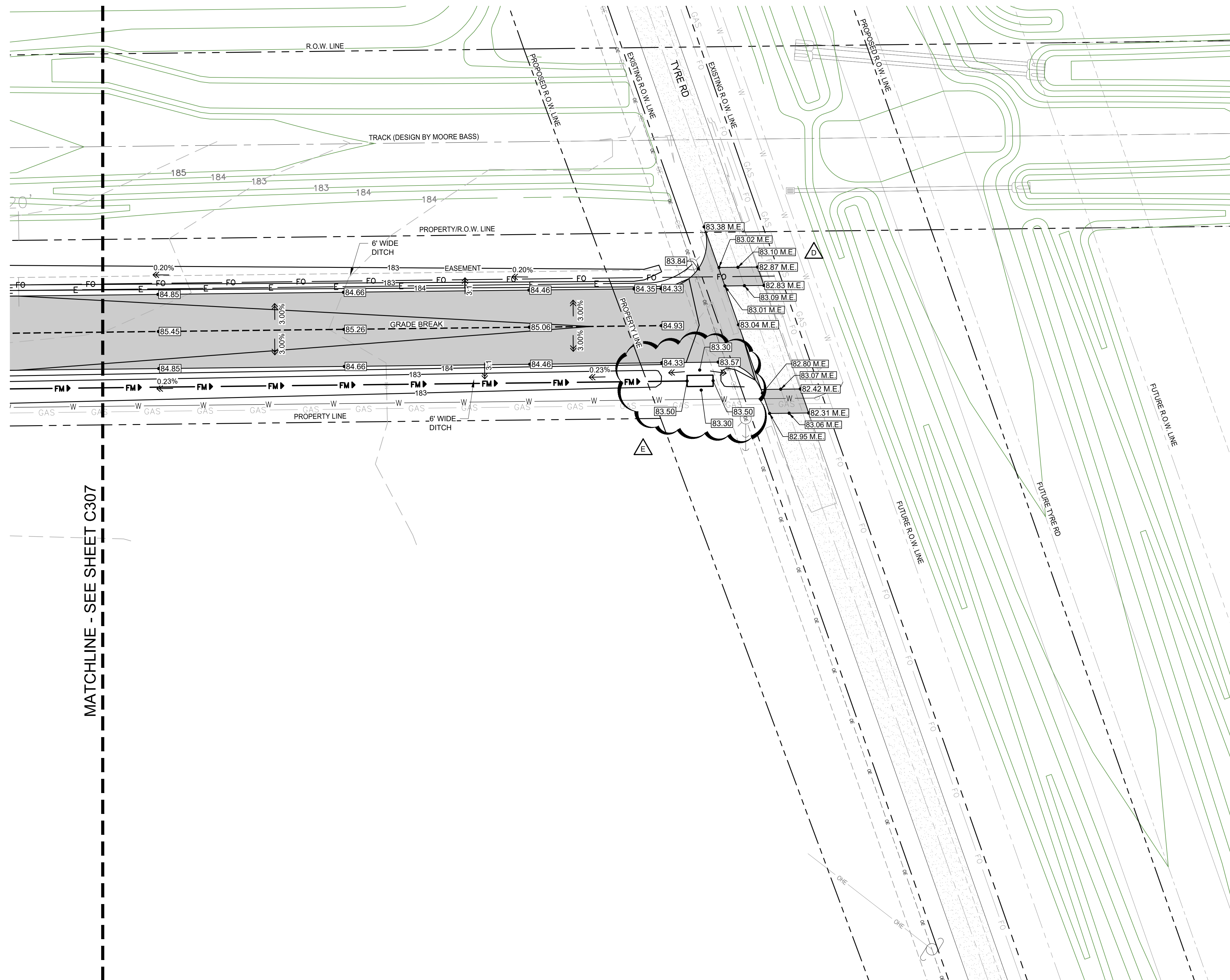


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CONSTRUCTION**



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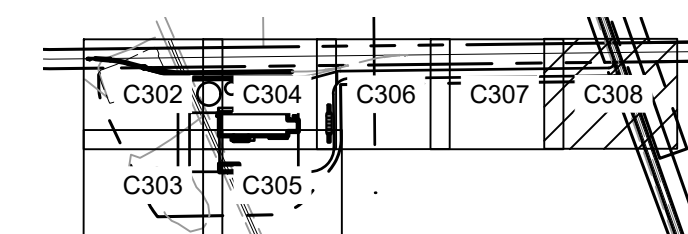
GRADING NOTES

1. SEE SHEET C301 FOR GENERAL NOTES.
2. PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO TOP OF GRADE, PAVEMENT/SUBBALLAST OR GUTTER LINE, UNLESS OTHERWISE SPECIFIED.
3. SEE SWPPP SHEET C601 FOR ADDITIONAL DETAILED EROSION PREVENTION AND SEDIMENT CONTROL NOTES.
4. SEE SHEETS C401-C408 FOR ADDITIONAL LOCATIONS OF EROSION AND SEDIMENT CONTROL ITEMS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS PRIOR TO CONSTRUCTION.

LEGEND

- | | |
|--|---|
| | PROPOSED CONTOUR |
| | PROPOSED STORM SEWER |
| | PROPOSED WATER LINE |
| | PROPOSED SANITARY LINE |
| | PROPOSED FORCEMAIN |
| | PROPOSED UNDERGROUND ELECTRIC LINE |
| | PROPOSED TELECOM LINE |
| | PROPOSED GAS LINE (BY CITY) |
| | PROPOSED TELECOM LINE (BY COUNTY) |
| | PROPOSED OVERHEAD ELECTRIC LINE (BY COUNTY) |
| | PROPOSED WATER LINE (BY CITY) |
| | PROPOSED GRADE BREAK |
| | PROPOSED SPOT ELEVATION |
| | MATCH EXISTING SPOT ELEVATION |
| | DENOTES SURFACE DRAINAGE |
| | PROPOSED CBMH |
| | PROPOSED FES |
| | PROPOSED SLUICE GATE |
| | PROPOSED VALVE |
| | PROPOSED UTILITY POLE W/ GUY WIRE |
| | FUTURE SITE LIGHT POLE |
| | PROPOSED GRAVEL PAVEMENT |
| | PROPOSED CONCRETE PAVEMENT |
| | PROPOSED SUBBALLAST |
| | EXISTING PROPERTY LINE |
| | EXISTING/ PROPOSED PROPERTY LINE |
| | EXISTING/ PROPOSED EASEMENT |
| | EXISTING SECTION LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING OVERHEAD ELECTRIC |
| | EXISTING POWER POLE |
| | EXISTING GRAVEL PAVEMENT |
| | TRACK DESIGN BY MOORE BASS |
| | STORM DRAINAGE DESIGN BY MOORE BASS |
| | DESIGN CONTOUR BY MOORE BASS |

CONTRACTOR SHALL COORDINATE SITE PAVING, UTILITIES, BUILDING PAD PREPARATION, BUILDING CONSTRUCTION AND OTHER SITE IMPROVEMENT CONSTRUCTION SEQUENCING WITH OWNER AND OTHER CONTRACTORS PRIOR TO CONSTRUCTION



2 KEY PLAN

**ISSUED FOR
CONSTRUCTION**



VAA, LLC 763.559.9100
2300 Berkshire Lane N, Suite 200 www.vaaeng.com
Plymouth, MN 55441 Project # 230384

CLIENT:



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Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

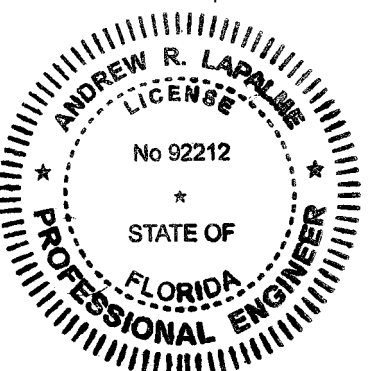
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION:

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Reason:
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by Andrew
LaPalme
Date:
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14:46:57-05'00'

ANDREW R. LAPALME, PE
Registration No. 92212

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DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

DRAWING TITLE:

GRADING AND DRAINAGE PLAN

PROJECT NO:

230384

DRAWING NO:

C308



1"=200

$$\triangle F$$

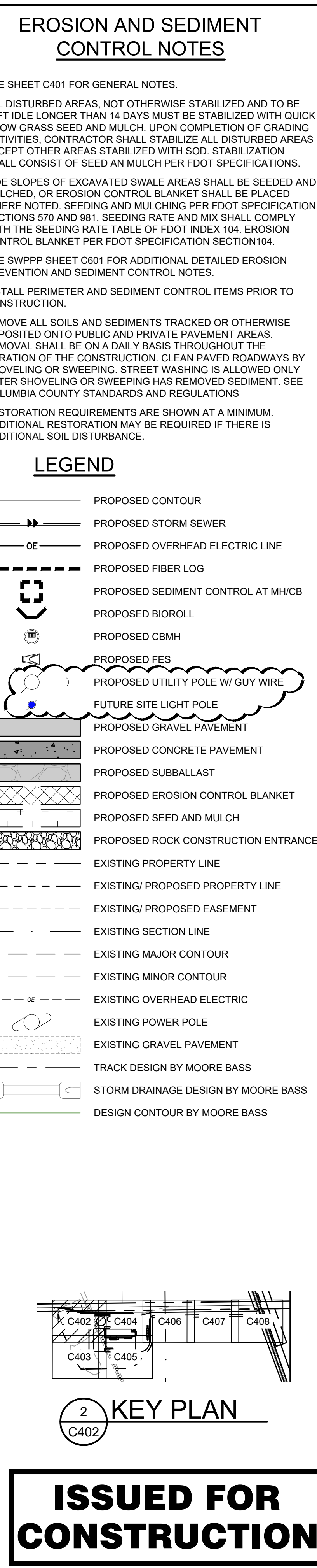
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2
C401

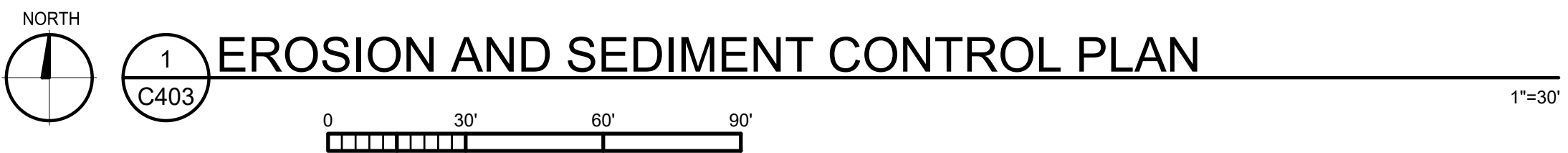
**ISSUED FOR
CONSTRUCTION**



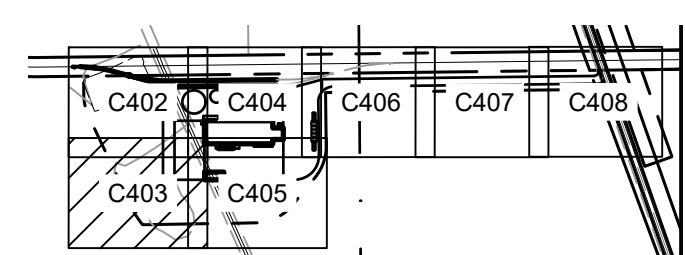
Date Plotted: Friday, May 09, 2025



Date Plotted: Friday, May 09, 2025

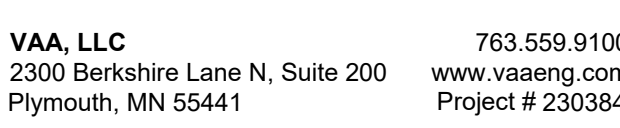


- | | |
|--|-------------------------------------|
| | PROPOSED CONTOUR |
| | PROPOSED STORM SEWER |
| | PROPOSED OVERHEAD ELECTRIC LINE |
| | PROPOSED FIBER LOG |
| | PROPOSED SEDIMENT CONTROL AT MH/CB |
| | PROPOSED BIOROLL |
| | PROPOSED CBMH |
| | PROPOSED FES |
| | PROPOSED UTILITY POLE W/ GUY WIRE |
| | FUTURE SITE LIGHT POLE |
| | PROPOSED GRAVEL PAVEMENT |
| | PROPOSED CONCRETE PAVEMENT |
| | PROPOSED SUBBALLAST |
| | PROPOSED EROSION CONTROL BLANKET |
| | PROPOSED SEED AND MULCH |
| | PROPOSED ROCK CONSTRUCTION ENTRANCE |
| | EXISTING PROPERTY LINE |
| | EXISTING/ PROPOSED PROPERTY LINE |
| | EXISTING/ PROPOSED EASEMENT |
| | EXISTING SECTION LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING OVERHEAD ELECTRIC |
| | EXISTING POWER POLE |
| | EXISTING GRAVEL PAVEMENT |
| | TRACK DESIGN BY MOORE BASS |
| | STORM DRAINAGE DESIGN BY MOORE BASS |
| | DESIGN CONTOUR BY MOORE BASS |



2 KEY PLAN
C403

**ISSUED FOR
CONSTRUCTION**



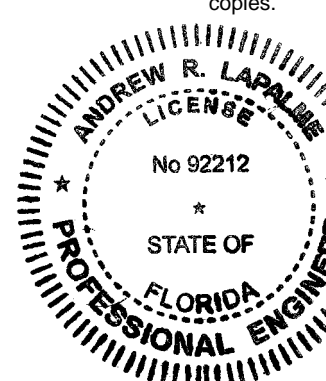
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Email: info@greystoneconstruction.com
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NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

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Reason:
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by Andrew
LaPalme
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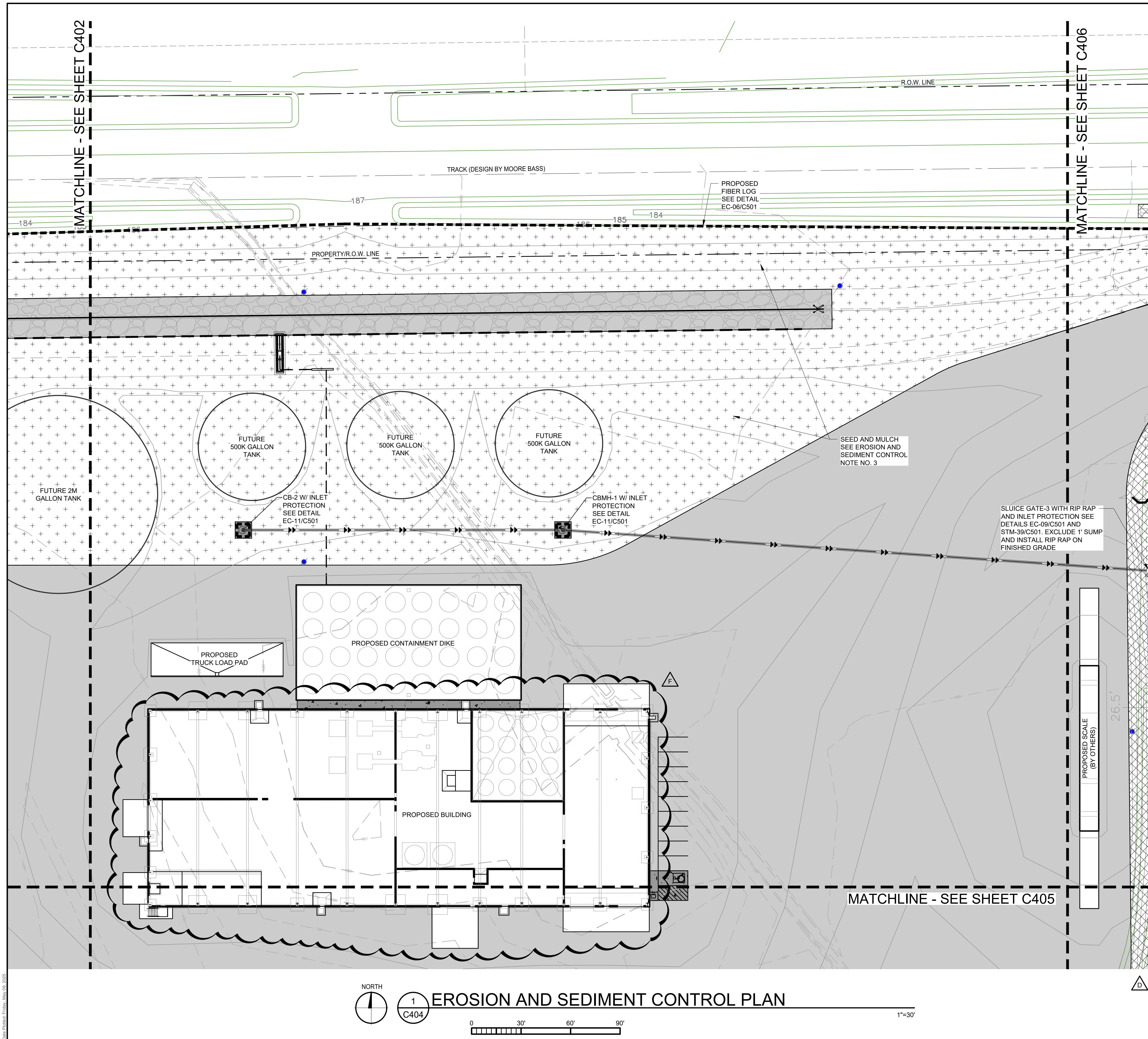
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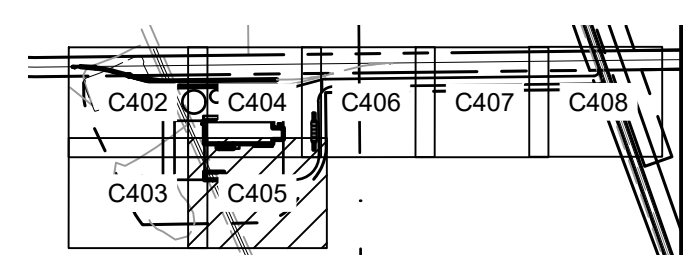
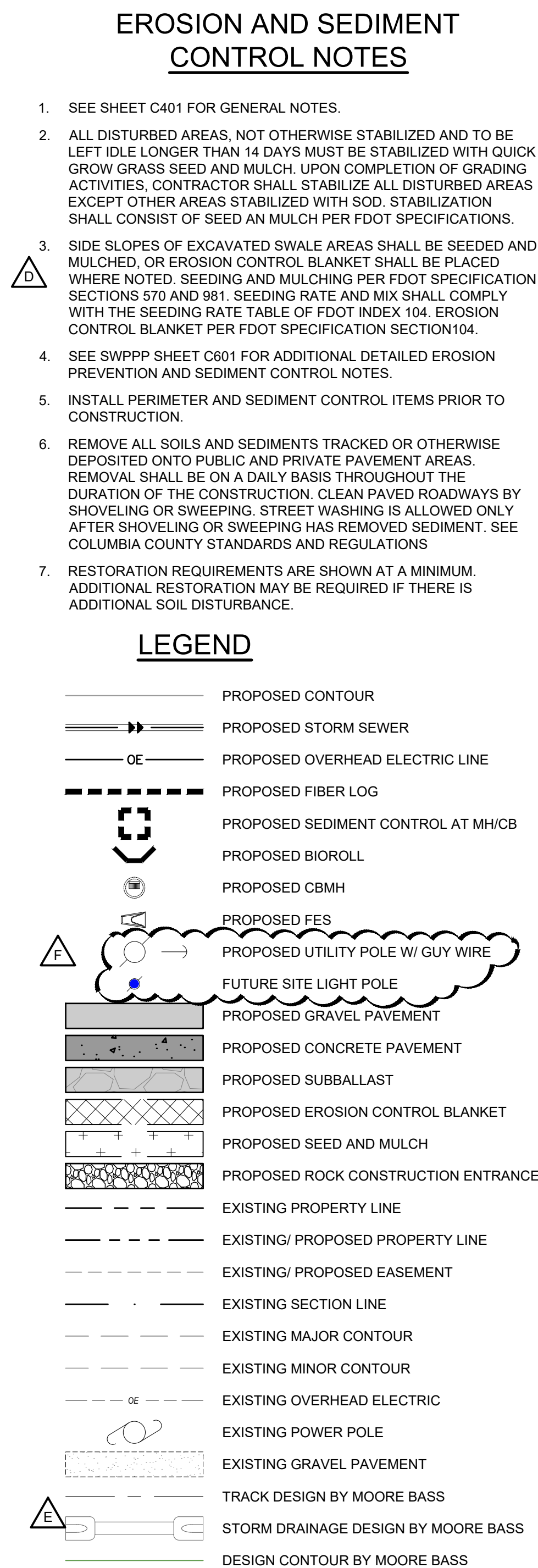
DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO: 230384	DRAWING NO: C403
SCALE: AS NOTED	



Date Plotted: Friday, May 09, 2025



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CONSTRUCTION**



VAA, LLC 763.559.9100
2300 Berkshire Lane N, Suite 200 www.vaaeng.com
Plymouth, MN 55441 Project # 230384

CLIENT:



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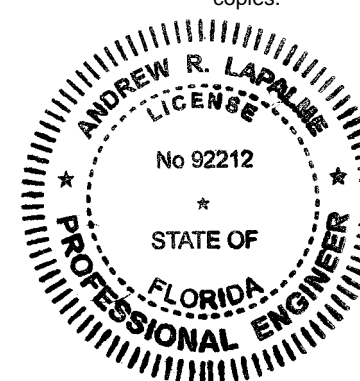
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION:

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Reason:
Digitally
Signed by
Andrew
LaPalme
Date:
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14:49:17-05'00'

ANDREW R. LAPALME, PE
Registration No. 92212

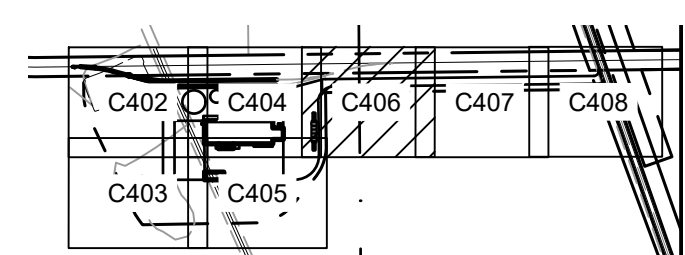
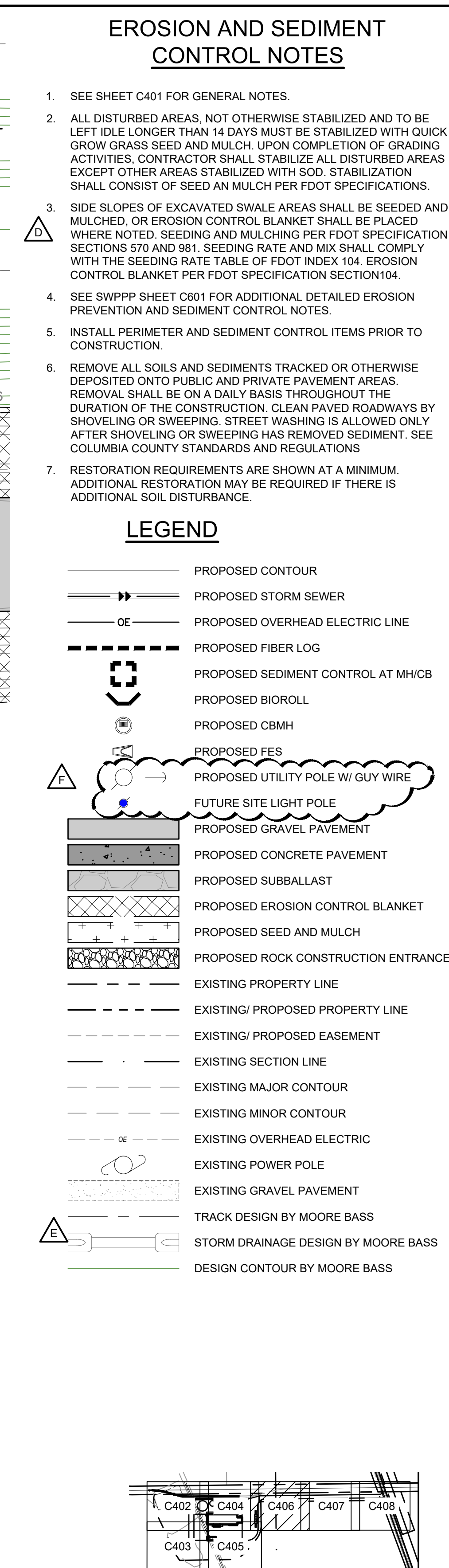
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DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

DRAWING TITLE

EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO: 230384	DRAWING NO: C405
SCALE: AS NOTED	



2 KEY PLAN
C406

**ISSUED FOR
CONSTRUCTION**

**ISSUED FOR
CONSTRUCTION**



VAA, LLC
 2300 Berkshire Lane N, Suite 200
 Plymouth, MN 55441

763.559.9100
www.vaaeng.com
 Project # 230384

CLIENT:



GREYSTONE
CONSTRUCTION

YOUR VISION. OUR TEAM. GREAT PROJECTS.

Phone: 888-742-6837

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

[illegible]

CERTIFICATION: This item has been digitally signed and sealed by Andrew R. LaPalme. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Reason:
Digitally
Signed by
Andrew
LaPalme
Date:
2025.05.09
14:49:43-05'00'

ANDREW R. LAPALME, PE
Registration No. 92212

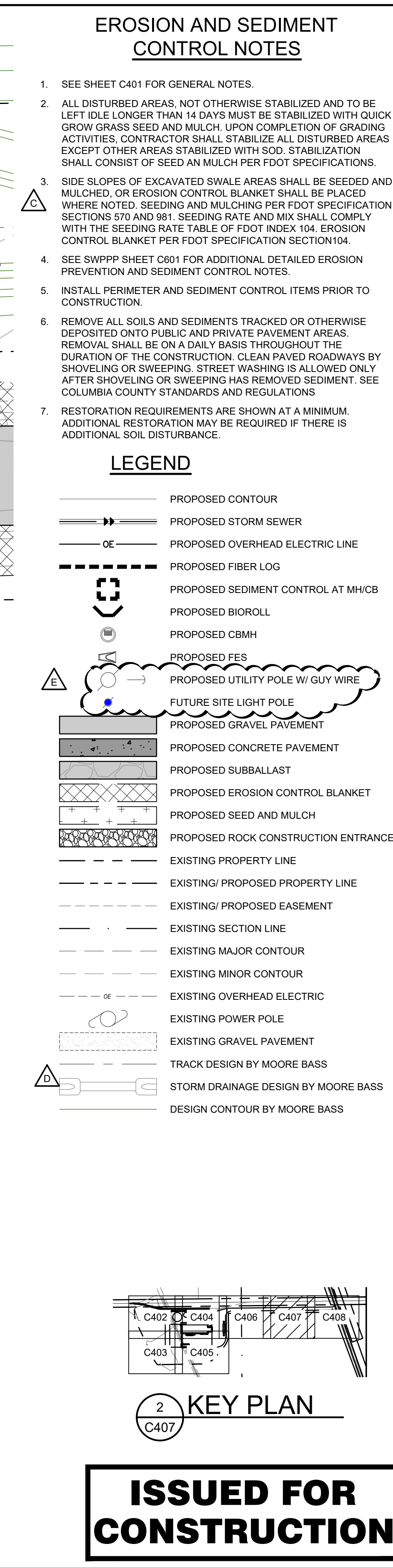
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DATE: 10/19/2023		DRAWN: RCQ	
DESIGNED: AJR	CHECKED: ARL	APPROVED: MDM	

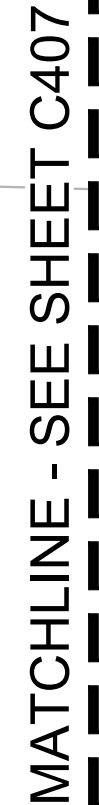
DRAWING TITLE:

EROSION AND
SEDIMENT CONTROL
PLAN

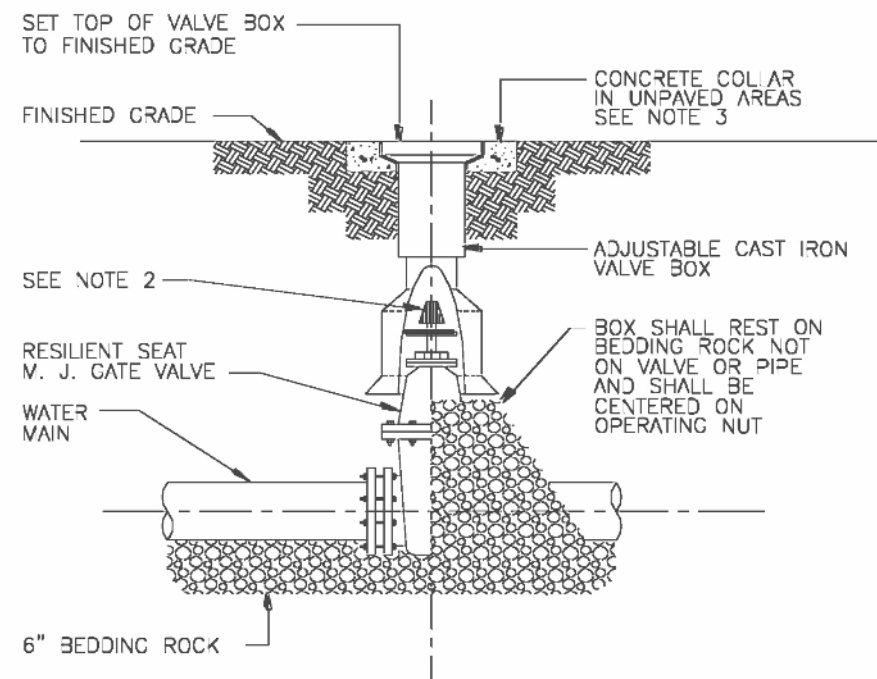
PROJECT NO: 230384	DRAWING NO: C406
SCALE: AS NOTED	



**ISSUED FOR
CONSTRUCTION**

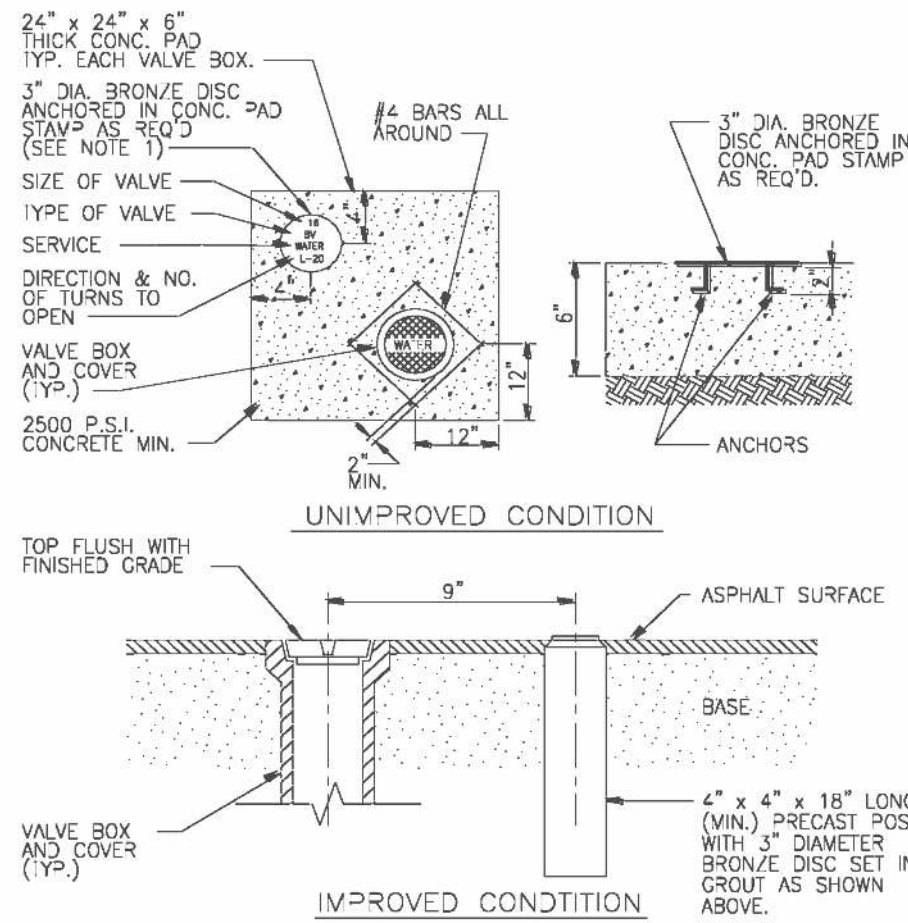


Date Plotted: Friday, May 09, 2025



- NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
 3. VALVE COLLAR SHALL BE 18"x18"x6\"

COLUMBIA COUNTY			
GATE VALVE AND BOX DETAIL			
Date	Revisions	Appr. by	Date: Sept. 1996 Scale: N.T.S. Dwg: Q400 Fig: 400



- NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

COLUMBIA COUNTY			
VALVE COLLAR DETAIL			
Date	Revisions	Appr. by	Date: Sept. 1996 Scale: N.T.S. Dwg: Q107 Fig: 107



SERIES 6600 MODEL 101C SLIDE GATE



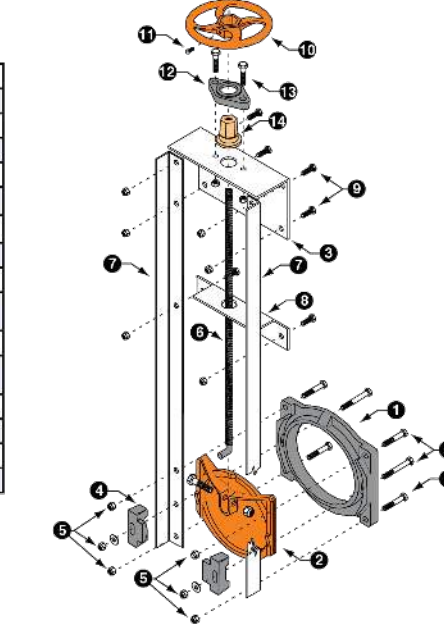
Series 6600 Slide Gate

Material Specifications

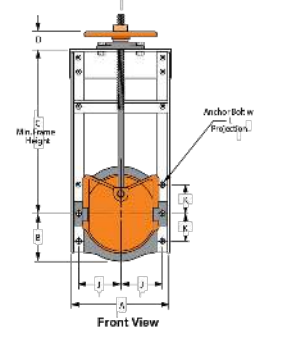
Item	Description	Material	Specification
1	Seat	Cast Iron	ASTM A126, Class B
2	Slide	Cast Iron	ASTM A126, Class B
3	Head Bar	Steel, Galvanized	ASTM A36
4	Wedge	Cast Iron	ASTM A126, Class B
5	Wedge Bolts/Nuts	Steel, Plated	ASTM A307, A164
6	Stem	Steel	ASTM A108, Grade 1045
7	Side Angles	Steel, Galvanized	ASTM A36
8	Stem Support	Steel, Galvanized	ASTM A36
9	Headbar Bolt/ Nut	Steel, Plated	ASTM A307, A164
10	Handwheel	Cast Iron	ASTM A126, Class B
11	Handwheel Set Screw	Steel, Plated	ASTM A307, A164
12	Keeper	Cast Iron	ASTM A126, Class B
13	Keeper Bolts/Nuts	Steel, Plated	ASTM A307, A164
14	Lift Nut	Brass	ASTM B16
15	Stem Bolt/Nut	Plated	ASTM A307, A164

Applications

The Series 6600 Slide Gate is designed for use in canals and ditches, on corrugated pipe, flood control systems, oil refineries, fish hatcheries and various low head industrial water control applications where pressure is in seating direction only.



SPECIFICATIONS



Pressure Rating

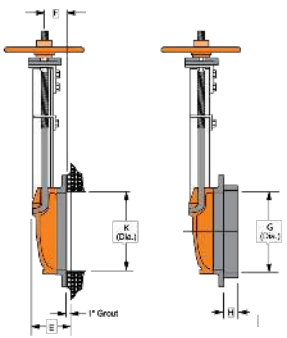
Gate Size:	
6"-24"	23 ft.
30"-36"	11 ft.
42"-48"	9 ft.
54"-60"	6 ft.

Installation

The Series 6600 Slide Gate is normally installed on corrugated steel pipe or bolted to a concrete head wall. When attaching to corrugated pipe, you may either bolt directly to the spigot back seat, or use a rod and harness assembly.

Options

- Frame angles available painted, galvanized or Stainless Steel.
- Cast Iron or Bronze seating faces.
- Stainless Steel stem and fasteners.
- Flat back for headwall or flange mounting.
- Spigot back for mounting to corrugated pipe.
- Square bottom slide in select sizes.
- Rising stem and non-projecting stem extensions.
- Tapered setting collars for concrete pipe installations.



Dimensional Information

Gate Size (Inches)	Dimensions (Inches)											Anchor Bolt Data		Lift Data	
	A	B	C	D	E	F	G	H	J	K	Qty.	Size	Qty.	Lift	Stem Dia.
6	9.3	4.0	16.50	2.88	3.88	2.25	6.75	1.50	4.00	2.50	4.0	1/2 x 12	4.00	H1	10.0
8	11.3	5.0	18.50	2.88	3.88	2.25	8.75	1.50	5.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
10	13.3	6.0	20.50	2.88	3.88	2.25	10.75	1.50	6.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
12	15.3	7.0	22.50	2.88	3.88	2.25	12.75	1.50	7.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
14	17.3	8.0	24.50	2.88	3.88	2.25	14.75	1.50	8.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
16	19.3	9.0	26.50	2.88	3.88	2.25	16.75	1.50	9.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
18	21.3	10.0	28.50	2.88	3.88	2.25	18.75	1.50	10.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
20	23.3	11.0	30.50	2.88	3.88	2.25	20.75	1.50	11.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
22	25.3	12.0	32.50	2.88	3.88	2.25	22.75	1.50	12.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
24	27.3	13.0	34.50	2.88	3.88	2.25	24.75	1.50	13.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
26	29.3	14.0	36.50	2.88	3.88	2.25	26.75	1.50	14.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
28	31.3	15.0	38.50	2.88	3.88	2.25	28.75	1.50	15.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
30	33.3	16.0	40.50	2.88	3.88	2.25	30.75	1.50	16.00	4.00	4.0	1/2 x 12	4.00	H1	10.0
36	41.3	20.0	46.50	3.50	4.50	3.75	37.25	2.00	18.00	4.00	4.0	3/4 x 12	5.25	H2	14.0
42	47.3	23.0	50.50	3.50	4.50	4.12	43.38	2.00	22.88	16.00	6.0	3/4 x 12	5.50	H2	24.0
48	53.3	26.0	54.50	3.50	4.50	4.50	49.38	2.00	26.88	16.00	6.0	3/4 x 12	5.50	H2	24.0
54	61.3	29.0	57.75	6.12	7.75	4.62	55.38	2.00	29.25	18.00	6.0	1 x 12	5.50	H2B	30.0
60	66.0	32.3	57.25	6.12	8.00	5.12	61.38	2.00	32.50	20.00	6.0	1 x 12	5.50	H2B	30.0



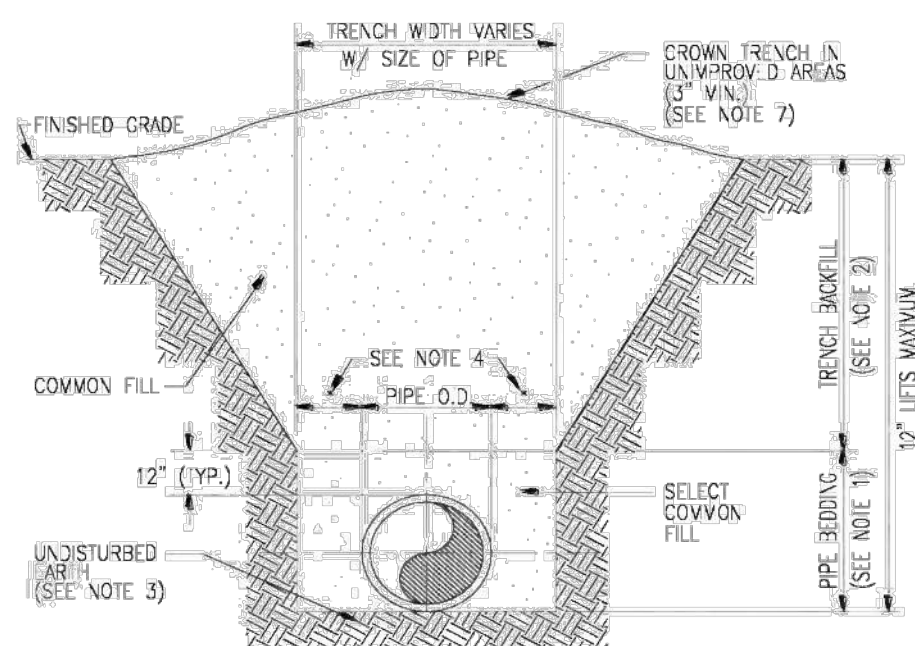
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Fresno Valves & Castings, Inc.
7736 East Springfield Avenue
P.O. Box 40, Selma, CA 95362 U.S.A.
(800) 333-1658
www.fresnovalves.com

STORM

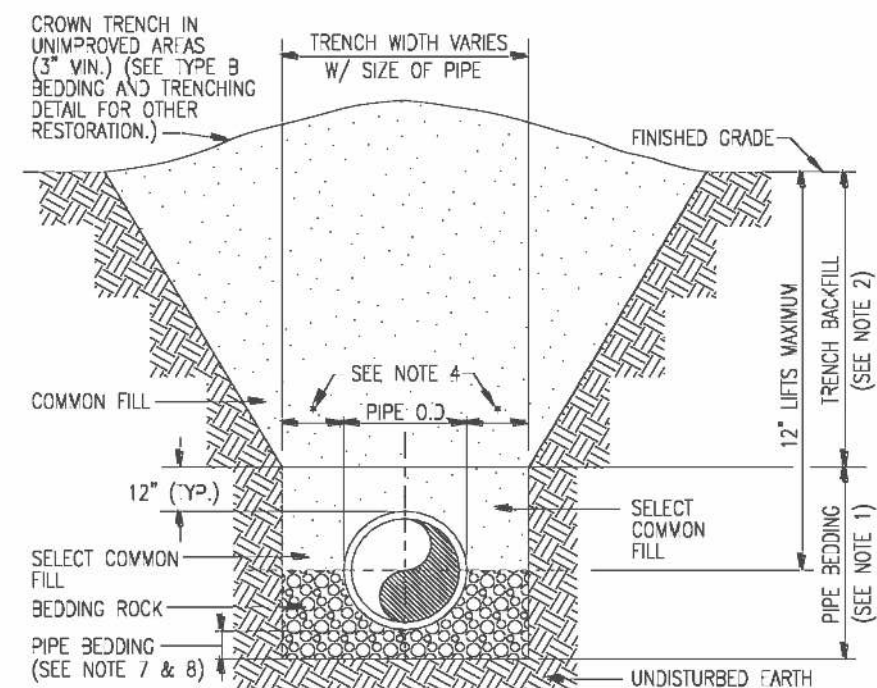
SLUICE (CANAL) GATE

STM-88



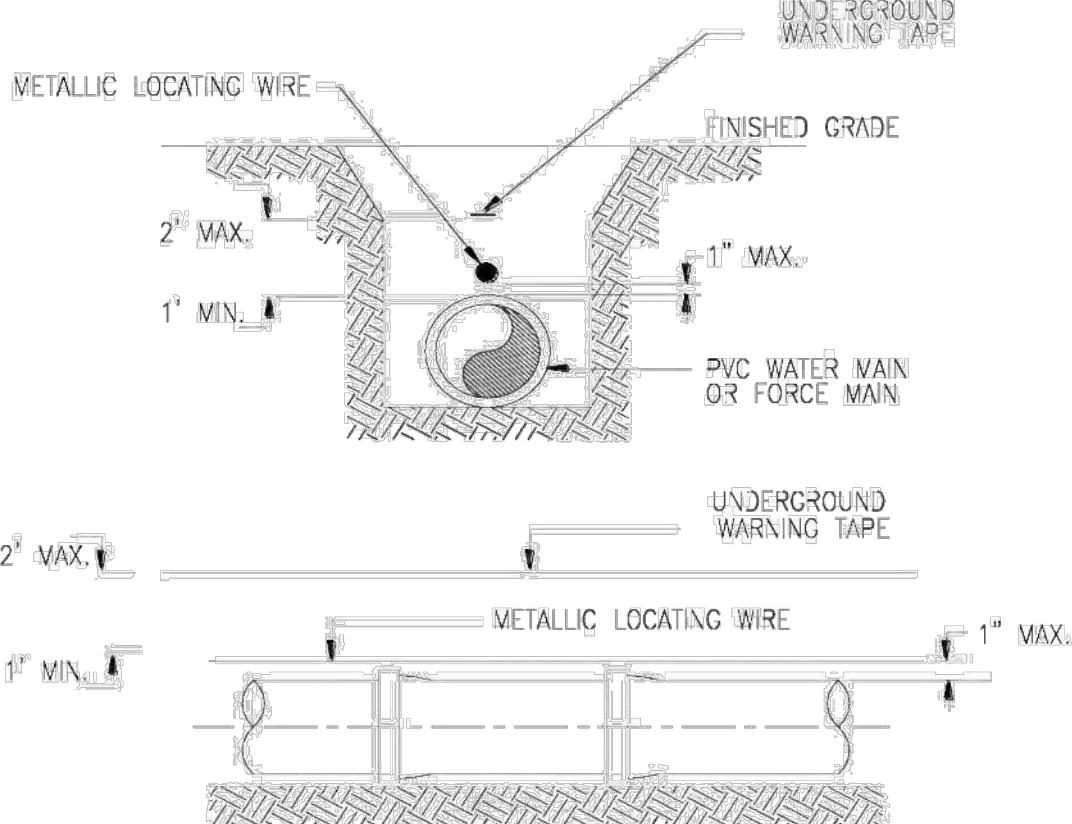
- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AMSHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AMSHTO T-180.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE COUNTY.
 4. (*) 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. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN THE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH THE APPLICABLE REGULATIONS.

COLUMBIA COUNTY			
TYPE B BEDDING AND TRENCHING DETAIL			
Date	Revisions	Appr. by	Date: Sept. 1996 Scale: N.T.S. Dwg: Q100 Fig: 100



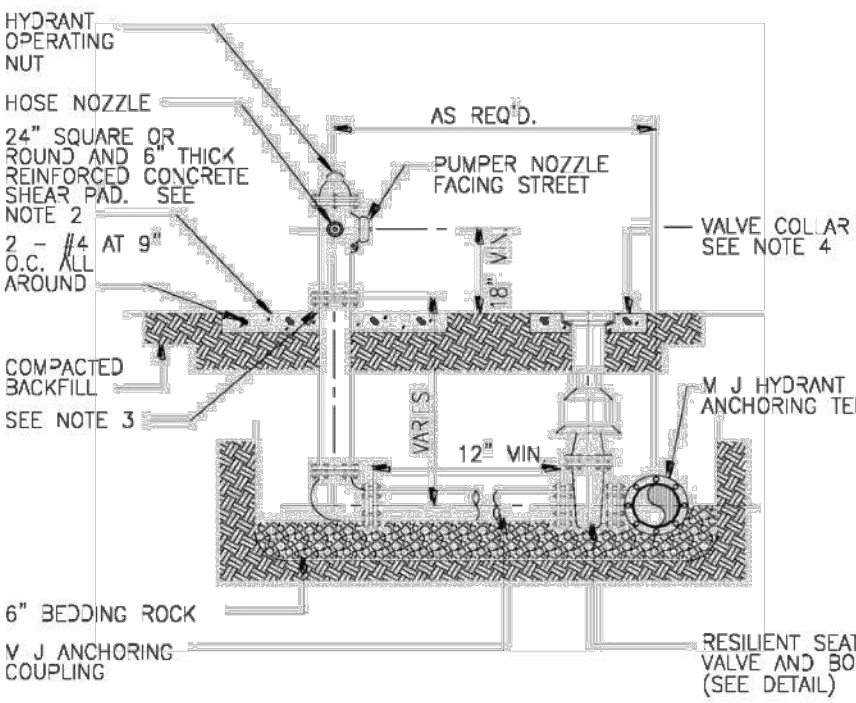
- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AMSHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AMSHTO T-180.
 3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
 4. (*) 15" MAX. FOR 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. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
 8. CRAWLY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE COUNTY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
 9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. APPLICABLE GOVERNING AGENCY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

COLUMBIA COUNTY			
TYPE A BEDDING AND TRENCHING DETAIL			
Date	Revisions	Appr. by	Date: Sept. 1996 Scale: N.T.S. Dwg: Q101 Fig: 101



- NOTES:
1. 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.
 2. PROPERLY COLOR CODED UNDERGROUND WARNING TAPE SHALL BE PLACED AT A MINIMUM OF 1 FOOT ABOVE THE PIPE AND NO GREATER THAN 2 FEET ABOVE THE PIPE, FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF UNDERGROUND UTILITY LINES.

COLUMBIA COUNTY			
PVC PIPE LOCATING WIRE DETAIL			
Date	Revisions	Appr. by	Date: FEB. 2010 Scale: N.T.S. Dwg: Q108 Fig: 108



- NOTES:
1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
 2. THE DEVELOPER MAY INSTALL THE SHEAR PAD RECESSED UP TO 4 INCHES BELOW FINISHED GRADE AND SOO THE RECESSED SECTION.
 3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 6" MINIMUM.
 4. VALVE COLLAR SHALL BE 18"x18"x6\"

COLUMBIA COUNTY			
FIRE HYDRANT ASSEMBLY DETAIL			
Date	Revisions	Appr. by	Date: Sept. 1996 Scale: N.T.S. Dwg: Q402 Fig: 402



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Plymouth, MN 55441

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Project # 230384

CLIENT:



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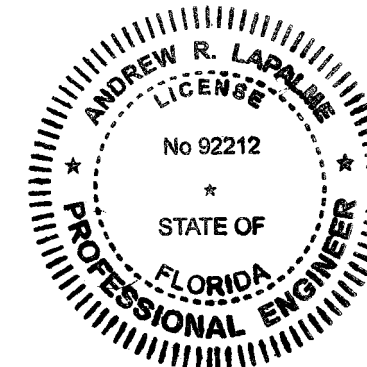
PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

NO	DATE	ISSUE/REVISION	BY
A	10/19/2023	DESIGN DEVELOPMENT	RCQ
B	12/11/2023	ISSUED FOR PERMIT	RCQ
C	09/11/2024	OWNER CHECK SET	RCQ
D	05/09/2025	ISSUED FOR CONSTRUCTION	RCQ

CERTIFICATION:

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Reason:
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Signed by
Andrew
LaPalme
Date:
2025.05.09
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ANDREW R. LAPALME, PE
Registration No. 92212

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DATE: 10/19/2023	DRAWN: RCQ
DESIGNED: AJR	CHECKED: ARL
	APPROVED: MDM

DRAWING TITLE:

CIVIL DETAILS

PROJECT NO: 230384	DRAWING NO: C503
SCALE: AS NOTED	

ISSUED FOR
CONSTRUCTION

THE GENERAL STORMWATER MANAGMENT POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS REQUIRED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE PERMITEE(S) AS INDICATED IN THE PERMIT, MUST IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS DEMONSTRATED HEREIN AND WITHIN THE SWPPP NARRATIVE. THE BEST MANAGEMENT PRACTICES (BMP'S) IDENTIFIED MUST BE INSTALLED IN AN APPROPRIATE AND FUNCTIONAL WAY TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING THE STORM SEWER OR BEING TRANSPORTED OFF SITE IN AN UNCONTROLLED MANNER.

EROSION PREVENTION PRACTICES

- ## SEDIMENT CONTROL PRACTICES

- SEDIMENT CONTROL PRACTICES CONTINUED

- ## DEWATERING AND BASIN DRAINING

- ## INSPECTIONS AND MAINTENANCE

THE IMPLEMENTATION SCHEDULE MUST CONFORM TO THE SWPPP NARRATIVE.

INSTALL SEDIMENT PONDS AT RATE OF 1800 CF OF DEAD STORAGE PER ACRE OF DISTURBED LAND. TEMPORARY SEDIMENT BASINS SHALL BE OPERATIONAL UNTIL PERMANENT COVER IS ESTABLISHED FOR THE ENTIRE DRAINAGE AREA OF THE TEMPORARY BASIN. TEMPORARY SEDIMENT BASINS MUST BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENTLY WITH THE START OF SOIL DISTURBANCE THAT IS UPGRADING OF THE AREA AND CONTRIBUTES RUNOFF TO THE POND.

BMP	ESTIMATED QUANTITIES OF BMP'S	UNITS
OUTLET PROTECTION WITH RIP RAP	90.7	CY
FES INLET PROTECTION	120	LF
BIO-ROLLS	276	LF
SEED	8.72	ACRES
FERTILIZER	8.72	ACRES
MULCH	5.55	ACRES
CONSTRUCTION ENTRANCE	1	EA
EROSION CONTROL BLANKET	16,115	SY

OWNER: TODD CRESSMSAN
AGROLIQUID
3055 W M-21
SAINT JOHNS, MI 48879

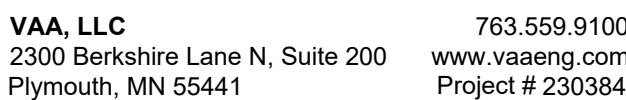
PROJECT SITE MANAGER:
BILL HAZELWOOD
PROJECT SUPERINTENDENT
GREYSTONE CONSTRUCTION
2995 WINNERS CIRCLE DRIVE, SUITE 200
SHAKOPEE, MN 55379

CONTRACTOR:
GREYSTONE CONSTRUCTION
2995 WINNERS CIRCLE DRIVE, SUITE 200
SHAKOPEE, MN 55379

THE SITE CONTRACTOR IS THE PARTY RESPONSIBLE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED AND THE "NOTICE OF TERMINATION" IS SUBMITTED. SEE THE GENERAL STORMWATER PERMIT FROM THE AUTHORITY HAVING JURISDICTION FOR REGULATIONS.

ESTIMATED PROJECT START DATE: APRIL 2025
ESTIMATED PROJECT COMPLETION DATE: APRIL 2026

**ISSUED FOR
CONSTRUCTION**



CLIENT:



Phone: 888-742-6837

info@greystoneconstruct

Email: info@greystoneconstruction.com

Website: GreystoneConstruction.com

PROJECT:

NEW LIQUID
FERTILIZER FACILITY
LAKE CITY, FL

CERTIFICATION

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ANDREW R. LAPALME, PE
Registration No. 92212

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DRAWING TITLE

STORMWATER
POLLUTION
PREVENTION PLAN
(SWPPP)

PROJECT NO.

230384

SCALE:

DRAWING NO:

C601