# ORANGE COUNTY CONVENTION CENTER

ORANGE COUNTY MAYOR

TERESA JACOBS



Orange

Center

DISTRICT 3 COMMISSIONER

PETE CLARKE

DISTRICT 4 COMMISSIONER

JENNIFER THOMPSON

DISTRICT 5 COMMISSIONER

TED EDWARDS

DISTRICT 6 COMMISSIONER

VICTORIA P. SIPLIN

DISTRICT 1 COMMISSIONER

S. SCOTT BOYD

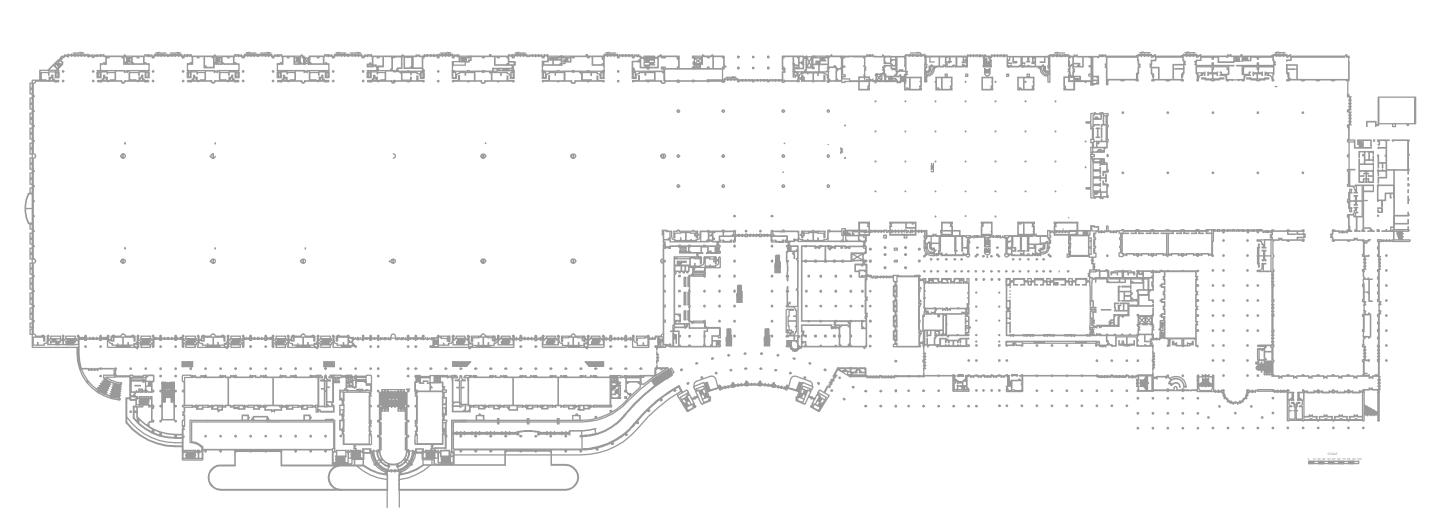
DISTRICT 2 COMMISSIONER

**BRYAN NELSON** 

WEST BUILDING
GREASE TRAP
REPLACEMENT

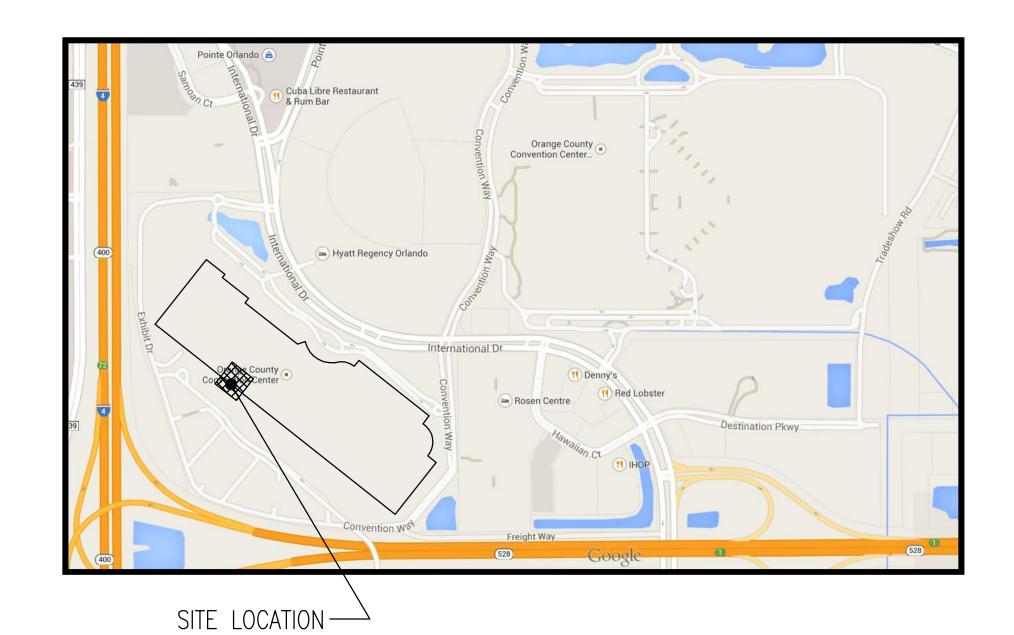
Convention

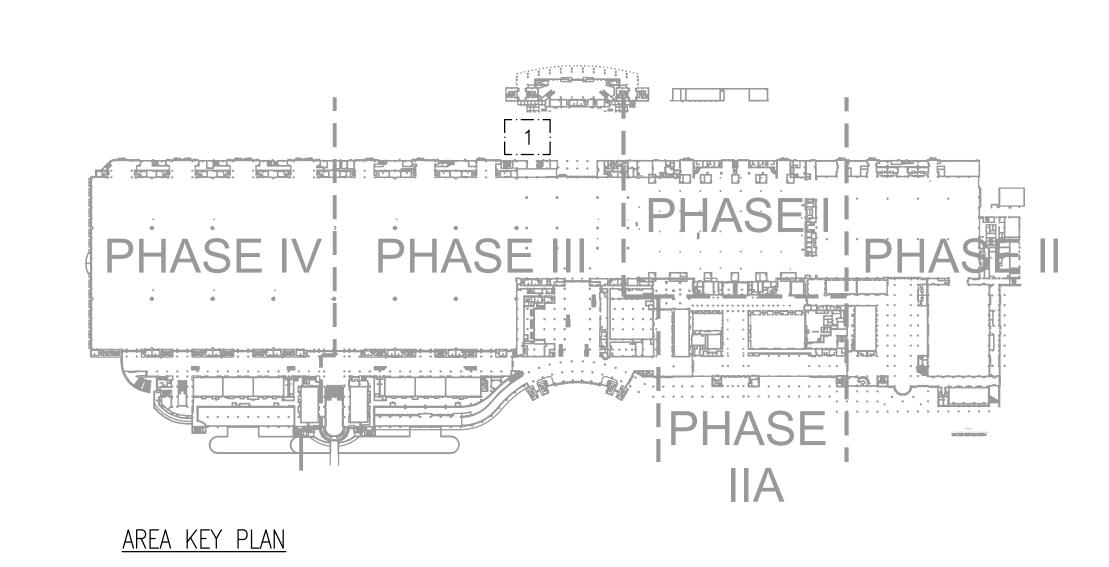


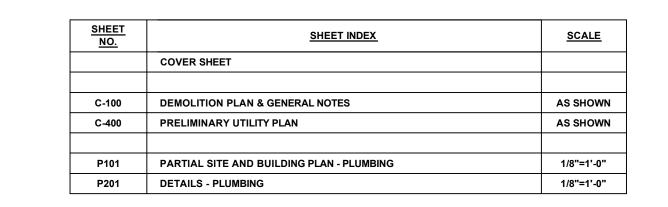


WEST BLDG











BID DOCUMENTS June 29, 2015

#### ORANGE COUNTY REQUIREMENTS FOR THE ABANDONMENT OF GREASE INTERCEPTORS, OIL/WATER SEPARATORS, LINT TRAPS AND/OR SAND AND SEDIMENT TRAPS MAY 18, 2011

IF A CUSTOMER IS PROPOSING TO ABANDON A GREASE INTERCEPTOR, OIL/WATER SEPARATOR, LINT TRAP AND/OR SAND AND SEDIMENT TRAP WITH OTHER SITE IMPROVEMENTS OR INTERIOR ALTERATIONS THAT NECESSITATE THAT A BUILDING PERMIT BE OBTAINED, THEN THE ABANDONMENT PROCEDURES AND REQUIREMENTS SHALL BE INCLUDED IN THE BUILDING PERMIT SUBMITTAL.

THE DEPARTMENT OF BUILDING SAFETY WILL REVIEW CHANGES TO OR PROPOSED NEW WATER AND WASTEWATER UTILITIES FOR PROJECTS THAT QUALIFY FOR A PLUMBING PERMIT. IF A CUSTOMER IS PROPOSING TO ABANDON A GREASE INTERCEPTOR, OIL/WATER SEPARATOR, LINT TRAP AND/OR SAND AND SEDIMENT TRAP AS PART OF A PLUMBING PERMIT, THEN THE ABANDONMENT PROCEDURES AND REQUIREMENTS SHALL BE INCLUDED IN THE PLUMBING PERM IT SUBMITTAL

THE FOLLOWING ACTIVITIES MUST BE PERFORMED AT MINIMUM WHEN ABANDONING A GREASE INTERCEPTOR, OIL/WATER SEPARATOR, LINT TRAP AND/OR SAND AND SEDIMENT TRAP DEVICE:

- 1) SUBMIT ALL INFORMATION TO THE ORANGE COUNTY DIVISION OF BUILDING SAFETY AS REQUIRED TO OBTAIN A BUILDING PERMIT OR PLUMBING PERMIT (IF APPLICABLE) FOR THE ABANDONMENT OF A GREASE INTERCEPTOR, OIL/WATER SEPARATOR, LINT TRAP, OR SAND AND SEDIMENT TRAP DEVICE.
- 2) IN ADDITION TO CURRENT ORANGE COUNTY BUILDING PERMIT OR PLUMBING PERMIT SUBMITTAL REQUIREMENTS, SUBMIT THE REQUIRED APPROPRIATE NUMBER OF DRAWINGS THAT INCLUDE THE LOCATION AND NUMBER OF DEVICES TO BE ABANDONED, THE TOTAL CAPACITY (IN GALLONS) OF EACH DEVICE TO BE ABANDONED, AND ABANDONMENT SPECIFICATIONS AND NOTES THAT ADDRESS ALL REQUIREMENTS SPECIFIED IN ITEMS 3-1 1 BELOW.
- 3) REMOVE ALL DEVICE ACCESS OPENING COVERS/LIDS AND PROPERLY DISPOSE (AT A C&D LANDFILL OR RECYCLING FACILITY) OR RECYCLE DIRECTLY FOR REUSE. (THIS ITEM REQUIRES A "LETTER OF ABANDONMENT / COMPLIANCE" SIGNED BY THE CONTRACTOR. SEE
- 4) PROPERLY CLEAN THE DEVICE. FOR PETROLEUM-CONTAMINATED OIL/WATER SEPARATORS AND SAND AND SEDIMENT TRAPS, PLEASE CONTACT THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (FDEP'S) CENTRAL DISTRICT OFFICE (AT 407-894-7555) DIRECTLY FOR APPLICABLE OILY WASTEWATER CONTAMINATED TANK CLEANING AND ABANDONMENT PROCEDURES. (THIS ITEM

REQUIRES A "LETTER OF ABANDONMENT / COMPLIANCE" SIGNED BY THE CONTRACTOR. SEE ITEM 11 BELOW).

- 5) PROPERLY DISPOSE OF ALL WASTE MATERIALS CONTAINED IN THE DEVICE AND WASTE MATERIALS GENERATED DURING CLEANING ACTIVITIES AT A LICENSED WASTE DISPOSAL FACILITY. THESE WASTES CANNOT BE DISCHARGED TO THE ORANGE COUNTY UTILITIES SANITARY SEWER SYSTEM. WASTE SAMPLING MAY BE REQUIRED FOR THE PROPER DISPOSAL OF PETROLEUM-CONTAMINATED WASTEWATER ASSOCIATED WITH OIL/WATER SEPARATOR AND SAND AND SEDIMENT TRAP DEVICES IF THESE DEVICES CONTAIN PETROLEUM RESIDUALS. PLEASE CONTACT THE PROPOSED WASTE DISPOSAL FACILITY FOR REQUIRED WASTEWATER SAMPLING REQUIREMENTS. (THIS ITEM REQUIRES A "LETTER OF ABANDONMENT /COMPLIANCE" SIGNED BY THE CONTRACTOR. SEE ITEM 11 BELOW). 6) SEND ORANGE COUNTY UTILITIES DEPARTMENT, ENVIRONMENTAL COMPLIANCE SECTION PROOF OF PROPER WASTE DISPOSAL (THE WASTE DISPOSAL MANIFEST SIGNED BY THE WASTE GENERATOR AND THE RECEIVING WASTE DISPOSAL FACILITY) WITHIN ONE (I) WEEK OF WASTE REMOVAL AND DISPOSAL ACTIVITIES (ASSOCIATED WITH ITEM #5 ACTIVITIES ABOVE). EITHER FAX THE WASTE DISPOSAL MANIFEST TO THE ENVIRONMENTAL COMPLIANCE SECTION MANAGER (TO FAX# 407-354-2607) OR EMAIL THE WASTE DISPOSAL MANIFEST TO ENVIRONMENTAL.COMPLIANCE@OCFL.NET.
- 7) CUT AND CAP ALL WASTEWATER INLET AND OUTLET LINES/PIPING (ENTERING AND EXITING THE DEVICE). (THIS ITEM REQUIRES COUNTY INSPECTION BY THE BUILDING/PLUMBING INSPECTOR. SEE ITEM 10 BELOW)
- 8) PROPERLY GLUE ALL PVC CAPPED FITTINGS (FOR PVC PIPING) AND WELD A METAL CAP FITTING (FOR METAL AND/OR IRON PIPING) TO ENSURE PERMANENT CLOSURE OF THE CAP AND TO PREVENT GROUNDWATER OF FILL MATERIAL FROM ENTERING THE WASTEWATER
- 9) CRACK THE BOTTOM OF THE DEVICE (SO THE DEVICE CANNOT HOLD WATER). THEN FILL THE DEVICE WITH SAND OR GROUT MATERIAL. IN NON-PAVEMENT OR LANDSCAPED AREAS, FILL THE TANK TO GRADE LEVEL. IN PAVEMENT AREAS, PROVIDE A PAVEMENT CAP OVER EACH FI LL ACCESS POINT (MANHOLE ACCESS OPENING), FINISHING THE PAVEMENT CAP LEVEL WITH EXISTING PAVEMENT LEVEL. (THIS ITEM

PIPING AND SANITARY SEWER SYSTEM. (THIS ITEM REQUIRES COUNTY INSPECTION BY THE BUILDING/PLUMBING INSPECTOR. SEE ITEM 10

REQUIRES COUNTY INSPECTION BY THE BUILDING/PLUMBING INSPECTOR. SEE ITEM 10 BELOW) 10) SCHEDULE AN INSPECTION WITH THE DIVISION OF BUILDING SAFETY BUILDING/PLUMBING INSPECTOR FOR VERIFICATION OF ITEMS 7, 8, AND 9 (ABOVE). CONTACT (407) 836-2825 TO ACCESS THE "CONNECT SYSTEM" TO SCHEDULE THE REQUIRED INSPECTION WITH THE BUILDING/PLUMBING INSPECTOR. PLEASE NOTE: YOU CANNOT REQUEST YOUR INSPECTION ON THE "CONNECT SYSTEM" ON THE SAME DAY THE PERMIT IS ISSUED. IF THIS IS NECESSARY, PLEASE CALL THE REGULAR INSPECTION TELEPHONE LINE AT (407) 836-5550. 11) PREPARE A "LETTER OF ABANDONMENT /COMPLIANCE" SIGNED BY THE CONTRACTOR, ATTESTING THAT ITEMS 3, 4, AND 5 (ABOVE) HAVE BEEN COMPLETED IN ACCORDANCE WITH THE BUILDING PERMIT/PLUMBING PERMIT SUBMITTAL, AND SUBMIT TO THE DIVISION OF BUILDING SAFETY BUILDING/PLUMBING INSPECTOR.

FOR FURTHER QUESTIONS ABOUT THE BUILDING PERMIT OR PLUMBING PERMIT APPLICATION REQUIREMENTS PLEASE CONTACT 407-836-5550.

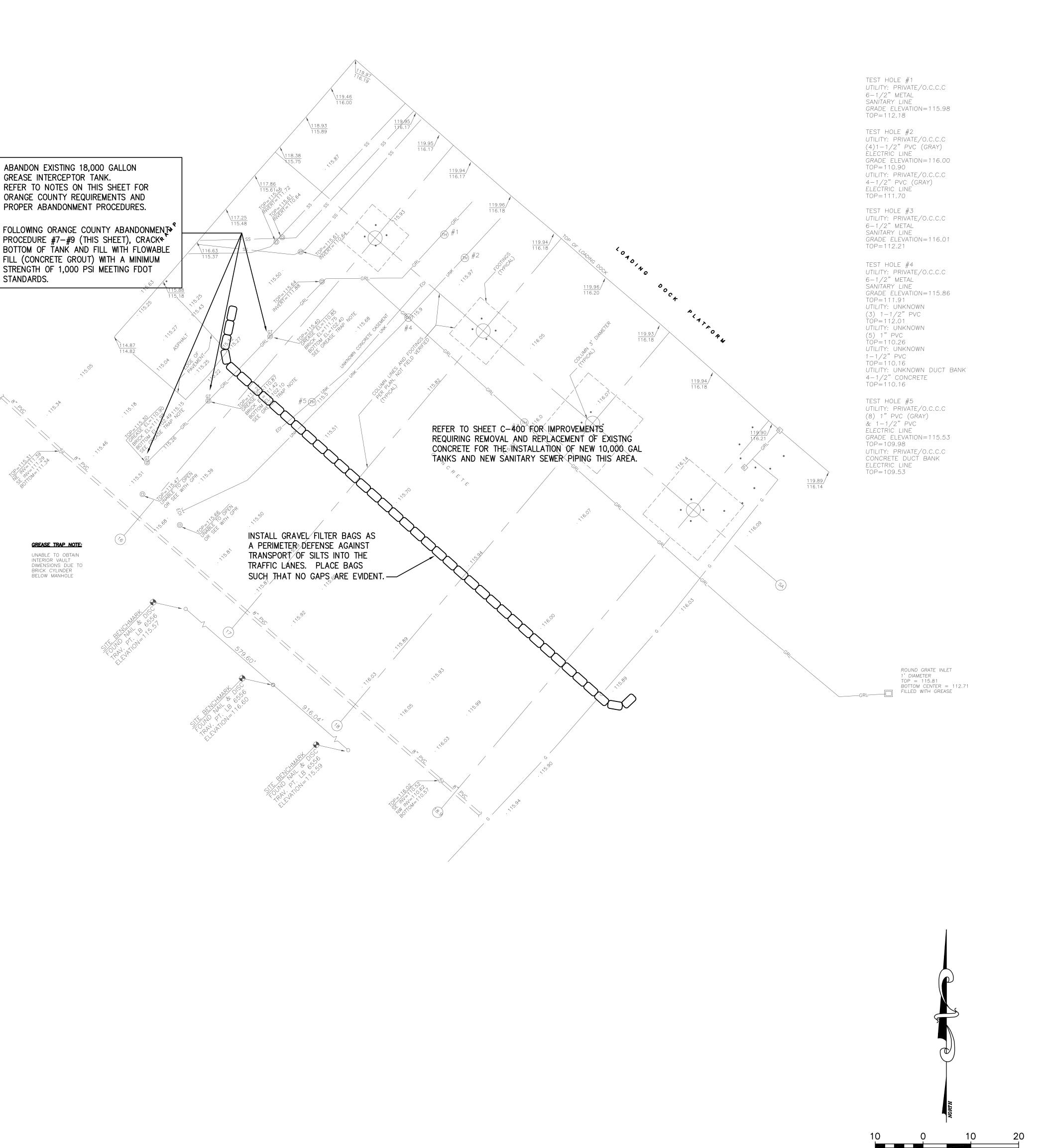
FOR FURTHER QUESTIONS ABOUT THE PROPER ABANDONMENT OF GREASE INTERCEPTOR, OIL/WATER SEPARATOR, LINT TRAP OR SAND AND SEDIMENT TRAP DEVICES, PLEASE CONTACT UTILITIES ENVIRONMENTAL COMPLIANCE SECTION AT 407-254-7710.

FOR FURTHER QUESTIONS ABOUT SPECIFIC WATER AND WASTEWATER UTILITY CONNECTION REQUIREMENTS, PLEASE CONTACT OCU DEVELOPMENT ENGINEERING AT 407 254-9924.

#### DEMOLITION AND EROSION CONTROL NOTES:

- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO START OF ANY CONSTRUCTION ACTIVITY TO OBTAIN DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS, AS APPLICABLE. CONTRACTOR SHALL ALSO COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES ON THE EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENT REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO EXCAVATION.
- 2. THE LOCATION OF EXISTING UTILITIES PROVIDED ON THESE PLANS WERE DEPICTED FROM ACTUAL FIELD MEASUREMENTS AND/OR DERIVED FROM RECORD DRAWINGS THAT WERE VERIFIED FROM THE BEST AVAILABLE SOURCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED CONSTRUCTION AND TO COORDINATE WITH UTILITY OWNERS, PROPERTY OWNER, AND ENGINEER OF RECORD TO RESOLVE THESE CONFLICTS. ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.
- 3. ALL DEBRIS AND WASTE MATERIALS GENERATED BY DEMOLITION ACTIVITIES OR SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER AT AN APPROVED DISPOSAL FACILITY. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEMOLITION, INCIDENTAL CONSTRUCTION WORK, EARTHWORK, AND HAULING WASTE MATERIALS AS REQUIRED BY ORANGE COUNTY AND/OR FDEP. ALL ASSOCIATED COSTS AND PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING AS REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AS NECESSARY. SHEETING AND SHORING SHALL BE DESIGNED BY A STATE OF FLORIDA REGISTERED P.E., RETAINED BY THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY DESIGN STANDARDS"
- 6. MAINTENANCE OF TRAFFIC: ACCESS FOR LOCAL TRAFFIC WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES, UNLESS APPROVED OTHERWISE BY THE LOCAL CITY, COUNTY, OR STATE FDOT. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCY A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH INDEX NO. 600 OF THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS.
- 7. THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED BY ORANGE COUNTY, FDEP, SFWMD, OR FDOT BEYOND THAT WHICH HAS BEEN SPECIFIED ON THE PLANS SHALL BE CONSIDERED AS INCLUDED WITHIN THIS CONTRACT.
- 8. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO START OF CONSTRUCTION. SEDIMENTATION CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF OF THE SITE.
- 9. SEDIMENT MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR DISCHARGE INTO WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- 10. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
- 11. ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC OR PRIVATE ROADS AND FACILITIES, DUE TO CONSTRUCTION SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL THE REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- 13. INGRESS AND EGRESS TO THE SITE DURING CONSTRUCTION IS ALLOWED ONLY THROUGH APPROVED SITE DRIVEWAYS.
- 14. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE AVAILABLE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PREPARE WEEKLY INSPECTION REPORTS PER FDEP.







Matern Professional Engineering, Inc 130 Candace Drive Maitland, FI 32751-3331 PHONE (407) 740-5020 FAX (407) 740-0365

ENGINEERING

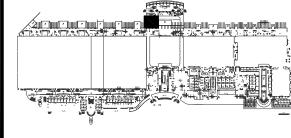
MEP/FP Engineering

Consultants - A Solutions

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ORANGE COUNTY CONVENTION WEST BUILDING **GREASE TRAP** REPLACEMENT

> Constance A. Owens, PE, LEED AP License #54842



<u>West Building Key Plan</u>



Revisions

Date Description

**■** MPE PROJ#: 2014-140

Designed By: CAO Drawn By: CAO

Checked By: CAO

06/29/15 Issue Date:

Drawing Scale: AS SHOWN Drawing Title:

**DEMOLITION PLAN** 

**1& GENERAL NOTES** 

BID DOCUMENTS

Drawing No.

THIS PLAN MAY HAVE BEEN REDUCED IN SIZE

VERIFY BEFORE SCALING DIMENSIONS

C - 100

VERIFY BEFORE SCALING DIMENSIONS

<u>GREASE TRAP NOTE:</u>

INTERIOR VAULT
DIMENSIONS DUE TO
BRICK CYLINDER

### NOTES PERTAINING TO AIR QUALITY CONTROL MEASURES

- 1. NO PERSON SHALL CAUSE, LET, SUFFER, ALLOW, OR PERMIT THE EMISSIONS OF UNCONFINED PARTICULATE MATTER FROM ANY ACTIVITY, INCLUDING VEHICULAR MOVEMENT; TRANSPORTATION OF MATERIALS; CONSTRUCTION, ALTERATION, DEMOLITION OR WRECKING; OR INDUSTRIALLY RELATED ACTIVITIES SUCH AS LOADING, UNLOADING, STORING, OR HANDLING; WITHOUT TAKING REASONABLE PRECAUTIONS TO PREVENT SUCH EMISSIONS.
- 2. REASONABLE PERCAUTIONS TO PREVENT SUCH EMISSIONS ARE LISTED IN THE ORANGE COUNTY CODE. REFER TO ORANGE COUNTY CODE CHAPTER 15: ENVIRONMENTAL CONTROL, ARTICLE III - AIR

→ INV OUT=111.19

CO INV=113.07 -

OPEN CUT EXISTING CONCRETE (TYP)

TO INSTALL 59 LF-8" PVC @ 0.31%

CORE DRILL OPENING TO INSTALL 8" PVC

SANITARY SEWER PIPE

INV (NE) = 111.00

-3.0 LF-8" PVC @ 0.31%

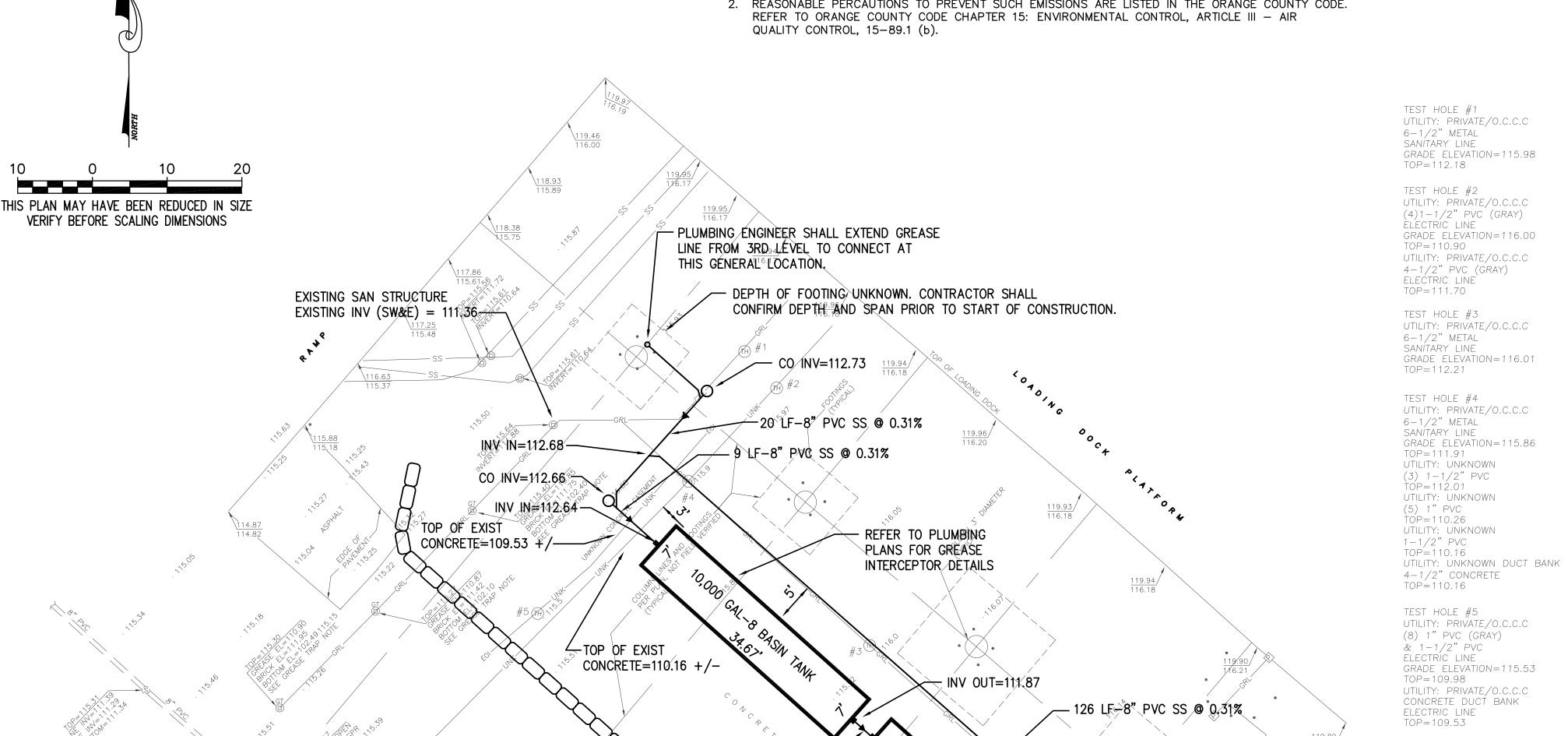
INV=113.10 —

ROUND GRATE INLET

\_\_10LF-8" PVC

@ 0.31%

1' DIAMETER TOP = 115.81 BOTTOM CENTER = 112.71



3°LF-8" PVC @ 0.31% -

INV IN=111.86

1. ALL CONCRETE REMOVED FOR INSTALLATION OF NEW GREASE INTERCEPTORS AND SANITAR SEWER PIPING SHALL BE MINIMUM 8" THICK, 4,000 PSI IN 28 DAYS

WITH FIBER REINFORCEMENT OR TO MATCH EXISTING.

- 2. EXISTING SUBSURFACE CONDITIONS ARE UNKNOWN. A SUBSURFACE SOILS INVESTIGATION REPORT SHALL BE PROVIDED BY THE OWNER. PAVEMENT THICKNESS PROPOSED ON THESE PLANS IS MINIMUM THICKNESS FOR WELL-DRAINED SOILS CONDITIONS WITH A MINIMUM OF ONE (1) FOOT OF SEPARATION FROM THE SEASONAL HIGH WATER TABLE ELEVATION. THE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE PAVEMENT THICKNESS PROPOSED ON THIS PLAN IS ACCEPTABLE.
- 3. SAWCUT PATTERNS SHOULD EXTEND TO A DEPTH OF AT LEAST ONE QUARTER OF THE CONCRETE PAVEMENT THICKNESS.
- 4. MAINTAIN MINIMUM 3 FOOT OF COVER OVER PIPE UNLESS NOTED OTHERWISE ON THESE PLANS.

#### SITE UTILITY NOTES

(100 P.S.I.).

- 1. THE LOCATION OF EXISTING UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ETC. AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. BE ADVISED THAT THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES FORTY—EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ORDER TO HAVE THE UTILITIES MARKED AND LOCATED IN THE FIELD PRIOR COMMENCEMENT
- 2. WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE INCH (12") LAYERS AND COMPACTED TO NINETY-EIGHT PERCENT (98%) MAXIMUM DENSITY AS DETERMINED BY AASHTO
- 3. ALL UNSUITABLE MATERIALS UNDER WATER PIPES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO NINETY-EIGHT PERCENT (98%) OF ITS MAXIMUM DENSITY AT TWO PERCENT (2.0%) MORE OR LESS OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).
- 4. ANY DAMAGE TO UNDERGROUND UTILITIES AND/OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 5. THE CONTRACTOR SHALL INSTALL ALL WATER AND SEWER LINES AND SERVICES AT A MINIMUM OF THIRTY-SIX INCHES (36") BELOW FINISHED GRADE TO TOP OF PIPE UNLESS INDICATED OTHERWISE ON THE PLANS.
- 6. ALL MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH CITY, STATE, AND COUNTY STANDARDS AND SPECIFICATIONS.
- 7. ALL SANITARY SEWER GRAVITY PIPE SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM-3034, SDR 35 AND BE INSTALLED IN ACCORDANCE WITH ASTM D-2321.
- 8. SANITARY SEWER PRESSURE PIPE SHALL BE POLYVINYL CHLORIDE PRESSURE PIPE CONFORMING TO AWWA C900 WITH DIMENSION RATIO (DR) OF TWENTY FIVE (25) AND A MINIMUM PRESSURE CLASS OF ONE HUNDRED POUNDS PER SQUARE INCH
- 9. WHERE APPLICABLE, SIX INCH (6") POLYVINYL CHLORIDE SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF ONE PERCENT (1.0%) AND FOUR INCH (4") POLYVINYL CHLORIDE SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF TWO PERCENT (2.0%)
- 10. WATER SERVICE PIPE SHALL BE POLYVINYL CHLORIDE PRESSURE PIPE CONFORMING TO AWWA C900 WITH DIMENSION RATIO (DR) OF EIGHTEEN (18) AND A MINIMUM PRESSURE CLASS OF ONE HUNDRED FIFTY POUNDS PER SQUARE INCH (150 P.S.I.).
- 11. ALL WATER PIPE SHALL BE DISINFECTED AND HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARDS C651, C600 OR M23 FOR POLY VINYL CHLORIDE AND COUNTY SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE, ALL NECESSARY TESTING EQUIPMENT, PRESSURE GAUGES, WATER METERS AND FACILITIES REQUIRED FOR PRESSURE AND LEAKAGE
- 12. FULLY RESTRAINED DUCTILE IRON PIPING SHALL BE USTR FLEX OR APPROVED EQUAL.
- 13. PVC JOINT RESTRAINT SHALL BE UNI-FLANGE SERIES 1350 OR APPROVED EQUAL.
- 14. SITE LIGHTING SHALL BE INSTALLED AS TO NOT ILLUMINATE OR SHADOW ADJACENT PROPERTIES.
- 15. ALL "ON-SITE" WATER AND SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED AND MAINTAINED BY THE OWNER IN CONFORMANCE WITH THE LOCAL UTILITY PROVIDER. ALL "OFFSITE" WATER AND SANITARY SEWER IMPROVEMENTS (IF APPLICABLE) SHALL BE INSTALLED BY THE OWNER AND MAINTAINED BY THE LOCAL UTILITY PROVIDER.
- 16. CONTRACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN OUTS, MANHOLES, CATCH BASINS, INLETS, ,ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR
- 17. ELECTRICAL, TELEPHONE, GAS AND CABLE TELEVISION SERVICE WILL BE PROVIDED BY THE APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL COORDINATE LOCATIONS AND SERVICES FOR THESE UTILITIES WITH THE ENTITIES INVOLVED.
- 18. THE ON-SITE WASTEWATER COLLECTION SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED.
- 19. THE CONTRACTOR SHALL NOTIFY THE ORANGE COUNTY UTILITIES DEPARTMENT FORTY-EIGHT (48) HOURS PRIOR TO START OF ANY UTILITIES CONSTRUCTION.
- 20. ALL PROPOSED UTILITIES CONSTRUCTION THAT WILL BE CONNECTING TO THE OCU WATER AND WASTEWATER SYSTEMS SHALL CONFORM TO THE ORANGE COUNTY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION, LATEST EDITION.

#### EMERGENCY WASTEWATER AND WATER MAIN BREAK PROCEDURES:

#### 1. EXCAVATE CAUTIOUSLY:

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WASTEWATER FORCE MAINS AND GRAVITY SEWERS. FORCE MAIN AND SEWER LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.
- 2. TELEPHONE NOTIFICATION: THE DRANGE COUNTY DISPATCH OPERATION SHALL BE GRAVITY SEWER OR WATER MAIN BREAK DAMAGE AT 407-254-9798.
- 3. REPAIR IMMEDIATELY:
- ALL DAMAGE TO DRANGE COUNTY'S MAINS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY THE DRANGE COUNTY UTILITIES INSPECTOR. DRANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR REPAIRS.

### 4. ORANGE COUNTY UTILITIES DEPARTMENT GENERAL:

- DRANGE COUNTY UTILITIES CONSTRUCTION INSPECTION SECTION 407-254-9798.
- DRANGE COUNTY UTILITIES ENGINEERING DIVISION 407-254-9680.

# 5. ADVANCED NOTIFICATION OF CONSTRUCTION:

THE DRANGE COUNTY UTILITIES CONSTRUCTION SECTION (407-254-9798) SHALL BE NOTIFIED AT LEAST 7 DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.

## 6. ADVANCED NOTIFICATION OF PENDING CONNECTION:

- THE DRANGE COUNTY WATER DIVISION (407-254-9768) AND THE DRANGE COUNTY WASTEWATE DIVISION (407-254-9680) SHALL BE NOTIFIED AT LEAST (7) DAYS IN ADVANCE TO SCHEDULE MAIN TIE-INS AND VALVE OPERATION.
- 7. OPERATION OF ORANGE COUNTY VALVES:
- WATER, WASTEWATER, AND REUSE VALVES ARE TO BE OPERATED ONLY BY DRANGE COUNTY UTILITIES INSPECTOR (836-7274).
- ALL VALVES BEING INSTALLED ARE TO REMAIN CLOSED DURING CONSTRUCTION. 8. OPERATION OF ORANGE COUNTY PUMP STATIONS:

# INSPECTOR (407-254-9798).

THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN WITH THE ORANGE COUNTY UTILITY

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A	PPENDIX A STANDARD DRAWINGS					
DATE: February 11, 2011	SEPARATION REQUIREMENTS FOR	FIGURE A116				
WATER, WASTEWATER AND RECLAIMED WATER MAINS						
	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS					

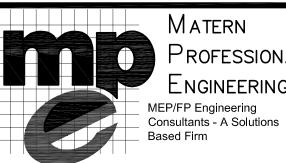
HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								
PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12"	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A

# NOTES:

- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
- THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE OCU MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 12 INCHES.
- THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED
- INDIVIDUALLY BY BOTH FDEP AND OCU. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.



CERTIFICATE OF AUTHORIZATION No. 28312



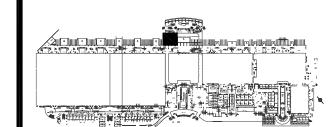
ORLANDO I Fort Myers I Jacksonville I Tampa Matern Professional Engineering, Inc 130 Candace Drive Maitland, FI 32751-3331

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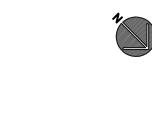
ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

ORANGE COUNTY CONVENTION WEST BUILDING **GREASE TRAP** REPLACEMENT

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West Building Key Plan



# Revisions

	No.	Date	Description

MPE PROJ#: 2014-140 Designed By: CAO

Drawn By: CAO

Checked By: CAO

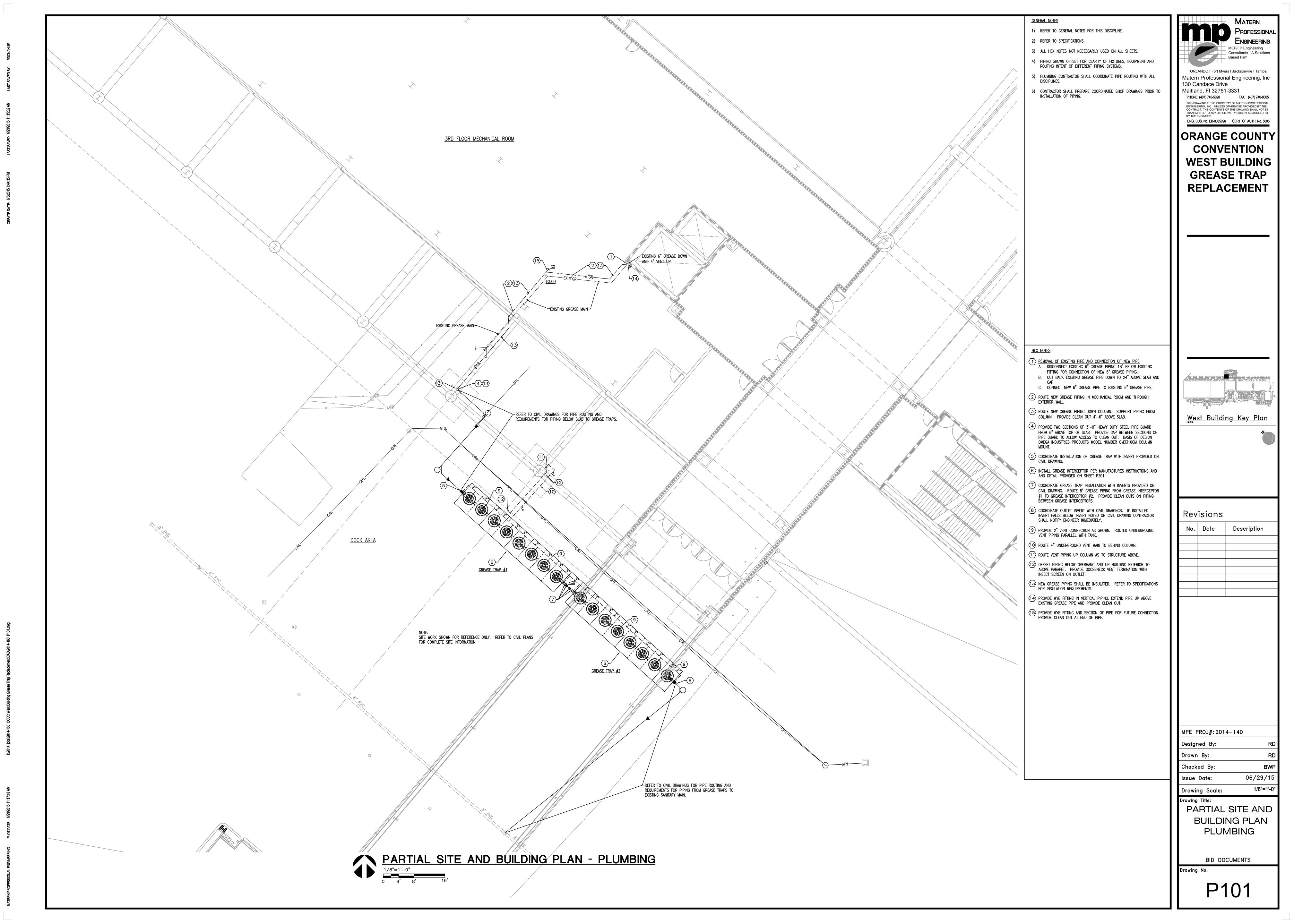
06/29/15 Issue Date:

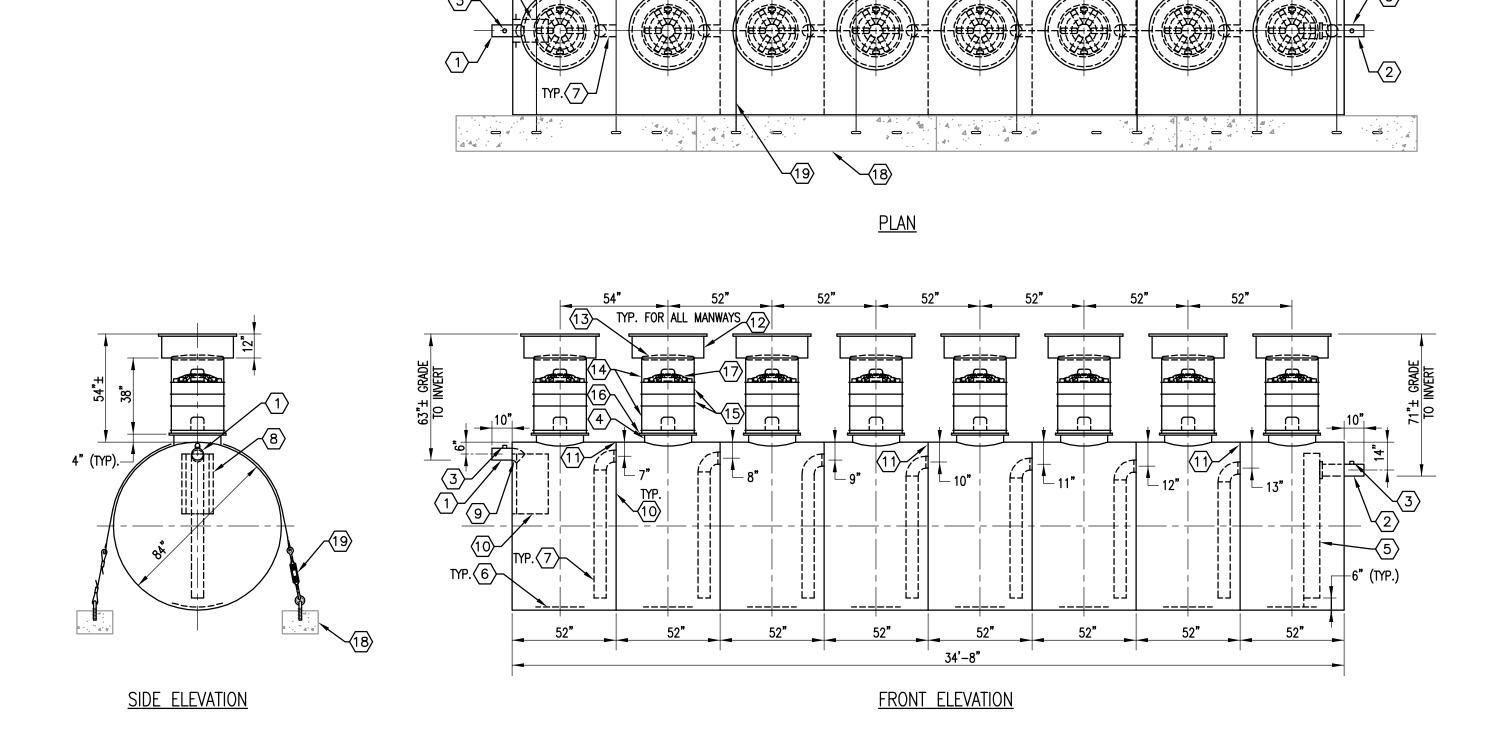
Drawing Scale: AS SHOWN

Drawing Title:

**UTILITY PLAN** 

BID DOCUMENTS Drawing No.





APPROXIMATE LOCATIONS SHOWN FOR DEADMEN & HOLD-DOWN STRAPS ACTUAL LOCATIONS TO BE DETERMINED AT TIME OF INSTALLATION

1 6"ø SCH 40 PIPE STUB – INLET.

2 6"ø SCH 40 PIPE STUB – OUTLET.

 $\bigcirc$  2" NPT HC FOR VENT.

4 24"ø manway for stackable riser.

5 STEEL OUTLET DOWNCOMER BAFFLE WITH OPEN TOP FOR EFFLUENT SAMPLING.

6  $\chi$ " striker plate (at all manways)

 $\overline{7}$  6" SCH 40 TRANSFER PIPE.

(8) BOLT — ON INLET DIFFUSION BAFFLE — 7 GA.

9 6"ø 45" DIFFUSION ELBOW.

(10) SOLID BULKHEAD - 1/4" (11) 2" OPENING FOR AIR CIRCULATION (TYPICAL).

12 36" GRADE - LEVEL MANWAY - SHIPPED LOOSE.

(13) 24"ø PVC COVER.

24" x 12" STACKABLE RISER — ALL STACKABLE RISER COMPONENTS ARE PRE — ASSEMBLED AND COMPLETE MANWAY RISER IS SHIPPED LOOSE.

(15) 24"ø x6" STACKABLE RISER.

(16) STACKABLE RISER ADAPTER RING & GASKET.

(17) STACKABLE RISER SAFETY SCREEN.

(18) CDA - 15 CONCRETE DEADMAN - EIGHT REQUIRED.

(19) (8) POLYSTER HOLD – DOWN STRAPS.





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**WEST BUILDING** 

**GREASE TRAP** 

**REPLACEMENT** 

West Building Key Plan

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**DETAILS** PLUMBING

BID DOCUMENTS