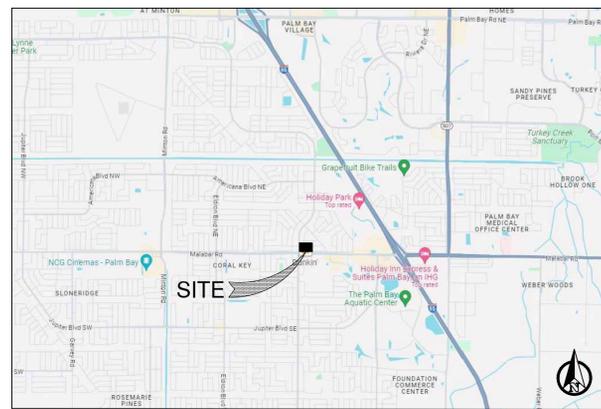


SITE DEVELOPMENT PLANS FOR TEX MEX RESTAURANT

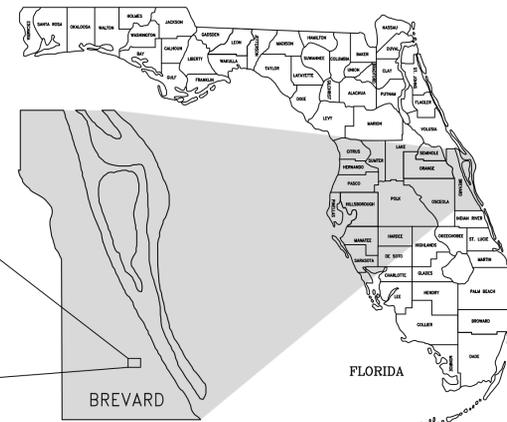
1491 EMERSON DR. NE
PALM BAY, FL 32907
BREVARD COUNTY

PARCEL NUMBER: 28-37-32-FS-277-1, 28-37-32-FS-277-2, 28-37-32-FS-277-6, 28-37-32-FS-277-7

SECTION 32, TOWNSHIP 28 SOUTH, RANGE 37 EAST



SITE LOCATION MAP
NTS



LEGAL DESCRIPTION

LOTS 1, 2, 6 AND 7, BLOCK 277, PORT MALABAR UNIT EIGHT, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, PAGE(S) 142, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

UTILITY PROVIDERS

SANITARY	CITY OF PALM BAY UTILITIES DEPARTMENT 2120 MALABAR RD. PALM BAY, FL 32907 CONTACT: TIM ROBERTS PHONE: (321) 952-3410	ELECTRIC	FLORIDA POWER & LIGHT - BREVARD 6000 N. COCOA BLVD. COCOA, FL 32927 CONTACT: JOEL BRAY PHONE: (386) 586-6510
WATER	CITY OF PALM BAY UTILITIES DEPARTMENT 2120 MALABAR RD. PALM BAY, FL 32907 CONTACT: TIM ROBERTS PHONE: (321) 952-3410	TELEPHONE	AT&T DISTRIBUTION 800 E. MERRITT ISLAND CSWY. MERRITT ISLAND, FL 32952 CONTACT: DINO FARRUGGIO PHONE: (321) 455-2290 EMAIL: G27896@ATT.COM
STORMWATER	ST. JOHN'S RIVER MANAGEMENT DISTRICT (SRWMD) PALM BAY SERVICE CENTER 525 COMMUNITY COLLEGE PKWY. SE PALM BAY, FL 32909 CONTACT: MARK VAN HEDEN PHONE: (321) 676-6604	GAS	FLORIDA CITY GAS 4045 NORTHWEST 97TH AVE. DORAL, FL 33178 CONTACT: JAMIE PURNELL PHONE: (386) 586-6403

DATUM NOTE

ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED BY POST-PROCESSED STATIC GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) OBSERVATIONS ON SITE CONTROL USING CORRECTIONS FROM FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN) FIXED REFERENCE BASE STATIONS. ADDITIONALLY, THE ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DERIVED FROM APPLYING THE FPRN181 GEOD. MODEL (HYBRID MODEL OF NGS GEOD18, PUBLISHED BY FDOT) TO ESTABLISHED ELLIPSOID HEIGHTS. INDEPENDENT CHECKS TO FDOT BENCHMARK #700341, HAVING A PUBLISHED NAVD88 ELEVATION OF 30.72) YIELDED SATISFACTORY CONFIRMATION TO THE PUBLISHED DATUM.

FLOOD NOTE

ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (FIRM) NUMBER 12009C0660G, BREVARD COUNTY, FLORIDA, EFFECTIVE DATE OF MARCH 17, 2014, THE PROPERTY DESCRIBED HEREON LIES WITHIN ZONE "X".

GENERAL STATEMENT

THE PROJECT CONSISTS OF THE DEVELOPMENT OF 1.05 ± ACRES OF PREVIOUSLY DEVELOPED LAND. THE PROPOSED IMPROVEMENTS INCLUDE: THE CONSTRUCTION OF A NEW 2,493 SF TEX MEX RESTAURANT, AND ASSOCIATED, DRAINAGE, UTILITIES, PARKING, LANDSCAPING, CONSTRUCTION MATERIAL QUALITY AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH, BREVARD COUNTY AND FDOT SPECIFICATIONS AND STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

DIRECTIONS TO PROJECT SITE

TRAVELING I-95, TAKE EXIT 173 FOR FL-514 TOWARD PALM BAY / MALABAR. CONTINUE MALABAR RD. FOR 0.5 MILES. TURN RIGHT ONTO EMERSON DR. THE SITE IS ON THE RIGHT.

OWNER

CAMELOT REALTY OF BREVARD II INC
2240 FRONT ST., APT. 101
MELBOURNE FL 32901

LAND SURVEYOR
CFB SURVEYING
SURVEYOR OF RECORD
TYLER P. TRACZ
4450 NE 83RD ROAD
WILDWOOD, FL 34785
PHONE: (352) 748-3126

CIVIL ENGINEER
BOWMAN CONSULTING
ENGINEER OF RECORD
ANDREW J. PETERSEN
4450 W. EAU GALLIE BLVD., STE. 144
MELBOURNE, FL 32934
PHONE: (321) 255-5434

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C2.0	DEMOLITION PLAN
C3.0	EROSION CONTROL PLAN
C4.0	EROSION CONTROL DETAILS
C5.0	SITE PLAN
C6.0	GRADING PLAN
C7.0	UTILITY PLAN
C8.0	DETAILS
C8.1	DETAILS



Bowman

FIRM NO. 14309

Bowman

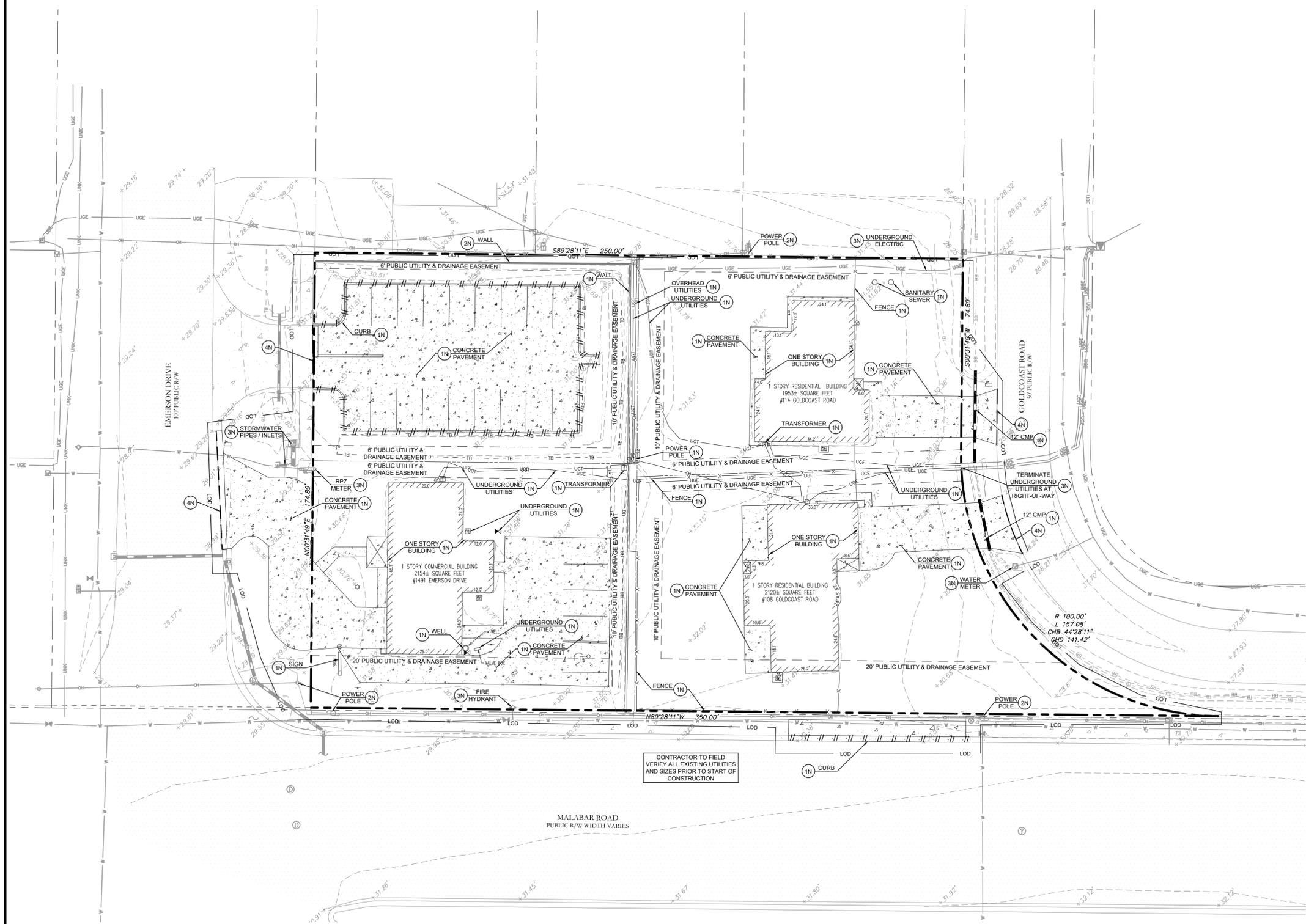
Bowman Consulting Group, Ltd.
4450 W. Eau Gallie Blvd
Suite 144
Melbourne, FL 32934
Phone: (321) 255-5434
Fax: (321) 255-7751
www.bowman.com
© 2024 Bowman Consulting Group Ltd

COVER SHEET
TEX MEX RESTAURANT
1491 EMERSON DR. NE
PALM BAY, FL 32907



ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS		
DATE	DESCRIPTION	
—	DESIGN	—
—	DRAWN	CHKD
—	SCALE:	AS SHOWN
—	JOB No.	011476-01-001
—	DATE:	2/21/2024
—	FILE:	011476-D-CP-001-COV
SHEET	C1.0	



DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL MATERIALS, SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICES TO ANY NECESSARY UTILITIES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CONSTRUCTION MANAGER.
9. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
10. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
11. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
12. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE STORE AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
13. DAMAGE TO ALL EXISTING FACILITIES AND IMPROVEMENTS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
14. FOR ALL ITEMS NOTED TO BE REMOVED, REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALSO REMOVE ALL UNDERGROUND ELEMENTS AS WELL INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, PIPES, TANKS, ETC.
15. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK MEETING THE REQUIREMENTS FOR FILL OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE.
16. ASBESTOS AND ANY OTHER HAZARDOUS MATERIAL SHALL BE PROPERLY PERMITTED AND REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL SECURE ALL PERMITS FOR DEMOLITION AND REMOVAL OF MATERIALS FROM THE SITE.
17. EXISTING PERIMETER TREES & LANDSCAPING TO REMAIN WHEREVER POSSIBLE.
18. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES/SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FOOT STANDARDS.
19. EXISTING PAVED SHOULDER SHALL BE REMOVED FULL DEPTH PRIOR TO WIDENING OF THE ROADWAY.
20. ALL CURB AND GUTTER AND SIDEWALK WILL BE REMOVED AND REPLACED JOINT TO JOINT.
21. TEMPORARILY STABILIZE SIDEWALK AND OPEN TO FOOT TRAFFIC AT THE END OF THE WORK DAY. PERMANENT REPAIR WITH IN 7 DAYS.
22. ALL DISTURBED AREA WITH IN THE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED. (BERMUDA IN RURAL, CENTPEDE IN UTILITY STRIPS)
23. BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN FOOT RIGHT OF WAY.
24. ALL LANES MUST BE OPENED FOR TRAFFIC DURING EVACUATIONS NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OR THE EVACUATION OR EVENT.
25. CONTRACTOR SHALL COORDINATE WITH THE COUNTY TO REMOVE EXISTING METERS

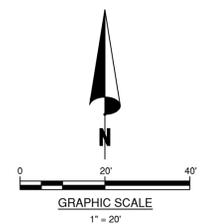
LEGEND

- PROPERTY / RIGHT-OF-WAY LINE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE
- EXISTING CURB TO BE REMOVED
- EXISTING TREE TO BE REMOVED (REFER TO LANDSCAPE PLANS)
- EXISTING BUILDING TO BE REMOVED
- EXISTING CONCRETE SIDEWALK TO BE REMOVED

NOTES

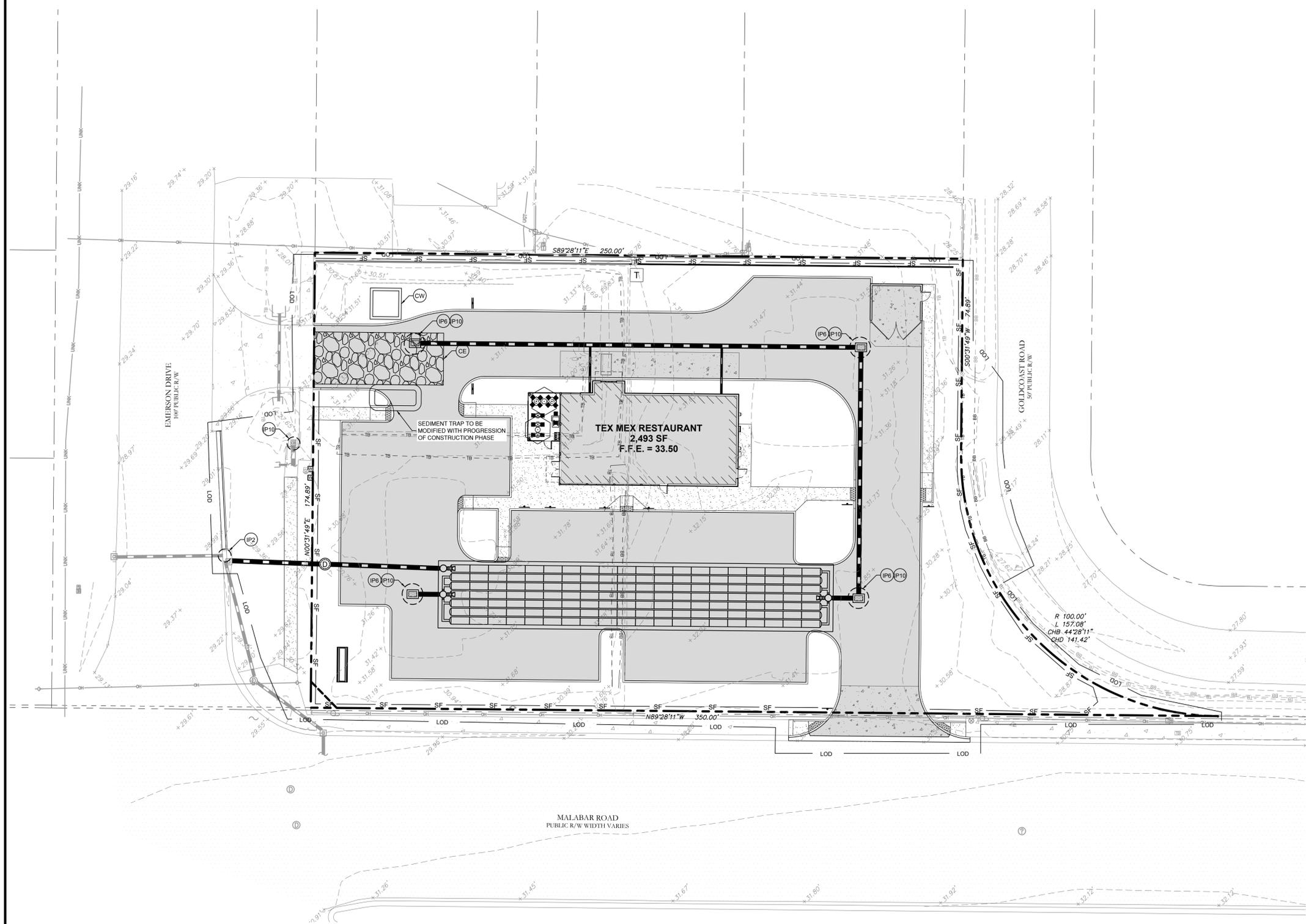
- 1N EXISTING TO BE REMOVED
- 2N EXISTING TO REMAIN
- 3N PROTECT EXISTING UTILITIES TO REMAIN
- 4N SAWCUT LINE

DISTURBED AREA
54,154 SF
(1.24 ± AC)



ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS		
DATE	DESCRIPTION	
DESIGN	DRAWN	CHKD
SCALE:	AS SHOWN	
JOB No.	011476-01-001	
DATE:	2/21/2024	
FILE:	011476-D-CP-001-DMO	
SHEET	C2.0	



EROSION CONTROL NOTES

- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- PERMIT FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- ON-SITE AND OFF-SITE SOIL, STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
- CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- CONTRACTOR SHALL PERIODICALLY SWEEP EXISTING ON-SITE PAVED SURFACES AS WELL AS ALL ABUTTING CITY STREETS, COUNTY ROADS AND STATE HIGHWAYS (AS APPROPRIATE FOR THE PARTICULAR PROJECT) TO KEEP THOSE SURFACES IN A SUBSTANTIALLY SEDIMENT-FREE CONDITION. SWEEPING SHALL BE DONE ON A PERIODIC, AS-NEEDED BASIS THROUGHOUT THE WORK WEEK INCLUDING, MOST IMPORTANTLY, AFTER EVERY RAIN EVENT AND EVERY FRIDAY AFTERNOON PRIOR TO CEASING WORK FOR THE WEEK.
- CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASH-OUT, CHEMICALS, LITTER AND SANITARY WASTE, ARE PROPERLY CONTROLLED WHILE ON-SITE AND TRANSPORTED AND DISPOSED OF (OFF-SITE) IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO WASTE MATERIALS OF ANY KIND ARE PERMITTED TO BE BURIED ON-SITE OR DISCHARGED TO SURFACE WATERS OF THE STATE OR TO THE CITY STORM WATER SYSTEM.
- ALL MATERIALS, MACHINERY AND VEHICLES SHALL BE STORED ON-SITE IN AN ORDERLY ORGANIZED FASHION.

BMP MAINTENANCE NOTES

- ALL MEASURES STATED ON THESE PLANS SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR COMPLETED PHASE OF WORK OF FINAL STABILIZATION OF THE SITE. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETEIORATION.
 - ALL SEEDED/SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.
 - THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE EXIT AS CONDITIONS DEMAND.
 - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND.
 - PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY.
 - ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

CONSTRUCTION SEQUENCE

- CONDUCT PRE-CONSTRUCTION MEETING WITH THE CITY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING.
- INSTALL STABILIZED CONSTRUCTION EXIT AND POST SWPPP AND SITE COMPLIANCE SIGNAGE THAT IS PUBLICLY VISIBLE.
- INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL DEVICES.
- INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN WITHIN THE CONSTRUCTION LIMITS.
- PREPARE TEMPORARY PARKING AND STORAGE AREAS.
- DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
- BEGIN GRADING THE SITE.
- BEGIN CONSTRUCTION OF UTILITIES.
- BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES.
- BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.
- COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS COMPLETED.
- COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
- OBTAIN CONCURRENCE FROM THE OWNER AND THE COUNTY THAT THE SITE HAS BEEN FULLY STABILIZED.
- REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
- STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL.

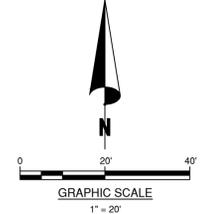
CONTRACTOR MAY COMPLETE CONSTRUCTION RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPS HAVE BEEN COMPLETELY INSTALLED.

THE ACTUAL SCHEDULE FOR IMPLEMENTING POLLUTANT CONTROL MEASURES WILL BE DETERMINED BY THE PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE GENERAL CONTRACTOR ON THESE PLANS.

LEGEND

- PROPERTY / RIGHT-OF-WAY LINE
- LOD - LIMITS OF DISTURBANCE
- SF - TEMPORARY SILT FENCE
- EXISTING STORMWATER STRUCTURES
- EXISTING STORMWATER PIPES
- PROPOSED TYPE OF INLET PROTECTION (REFER TO SWPPP DETAILS SHEET C4.9)

DISTURBED AREA
54,154 SF
(1.24 ± AC)



Bowman

Bowman Consulting Group, Ltd.
4450 W. Eau Gallie Blvd
Suite 144
Melbourne, FL 32934
Phone: (321) 255-5434
Fax: (321) 255-7751
www.bowman.com
© 2024 Bowman Consulting Group Ltd.

Certificate of Authorization License No. 30462

BREVARD COUNTY

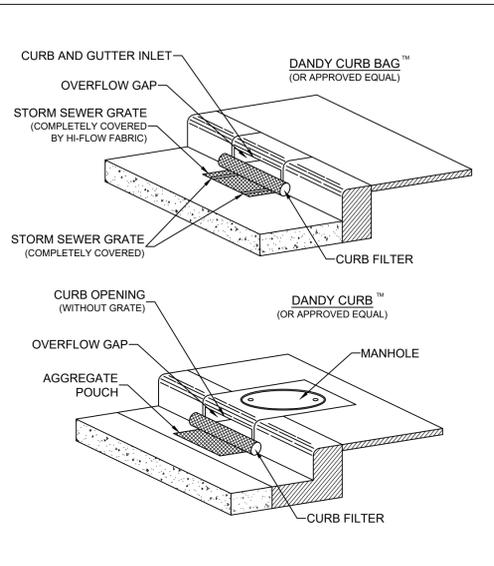
CITY OF PALM BAY

EROSION CONTROL PLAN
TEX MEX RESTAURANT
1491 EMERSON DR. NE
PALM BAY, FL 32907

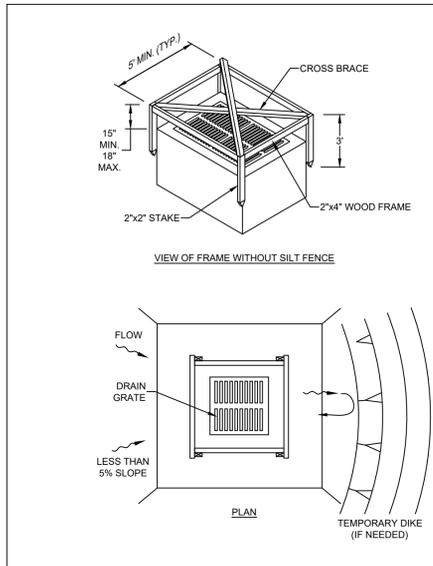
ANDREW J. PETERSEN
LICENSE
No. 75493
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE No. 75493

PLAN STATUS		
DATE	DESCRIPTION	
DESIGN	DRAWN	CHKD
SCALE:	AS SHOWN	
JOB No.	011476-01-001	
DATE:	2/21/2024	
FILE:	011476-D-CP-001-ECP	
SHEET	C3.0	



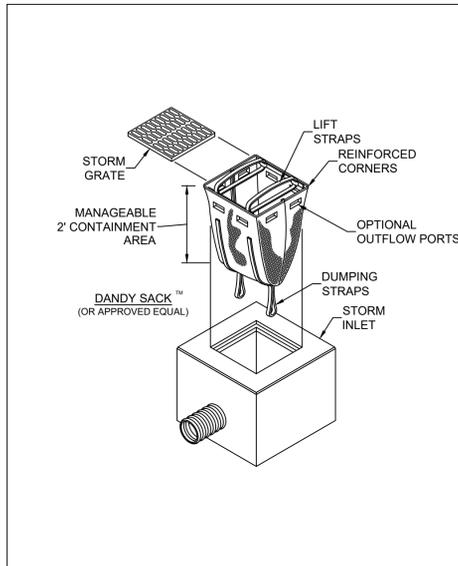
INLET PROTECTION: CURB INLET (IP2)



INLET PROTECTION: SILT FENCE (IP6)

DETAIL NOTES:

- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS.
- THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
- THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



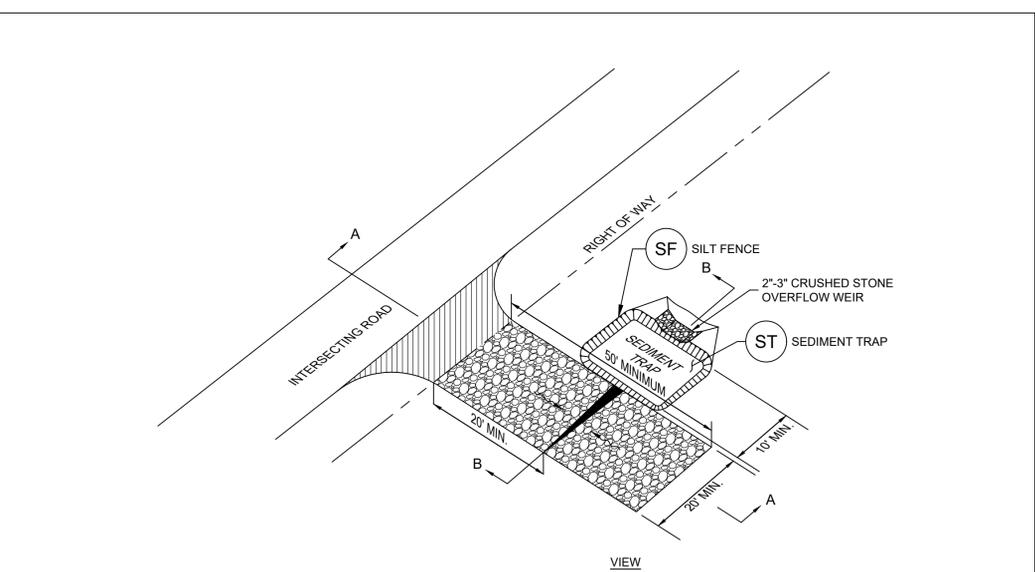
INLET PROTECTION: CATCH BASIN (IP10)

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

DETAIL NOTES:

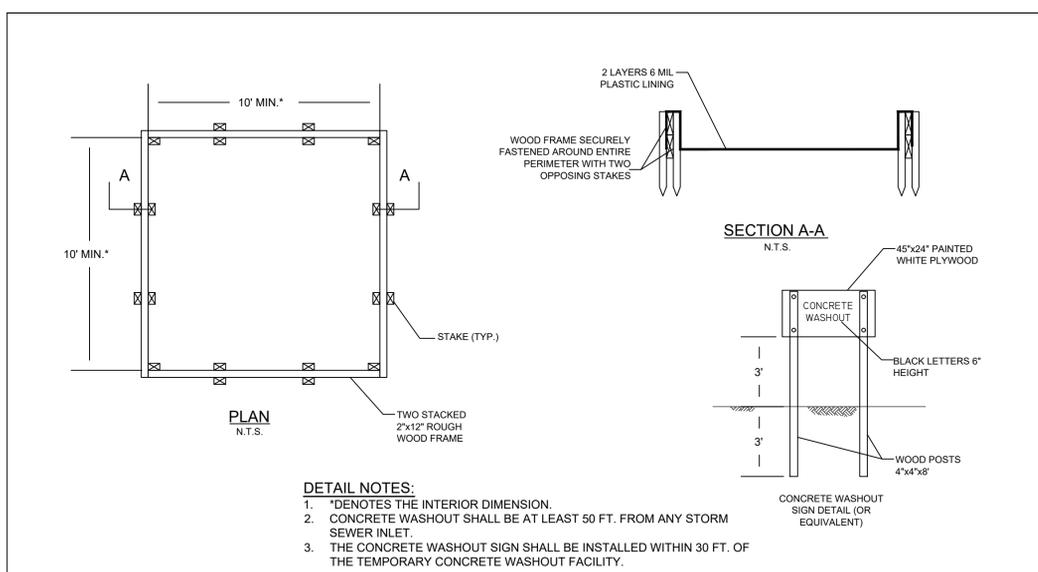
- FOR TEMPORARY USE TO CAPTURE LARGER DIAMETER SEDIMENTS. NOT TO BE UTILIZED AS THE ONLY SEDIMENT CONTAINMENT SYSTEM.
- GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
- AN OIL ADSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
- INSPECT PER REGULATORY REQUIREMENTS.



SILT FENCE INSTALLATION (SF)

DETAIL NOTES:

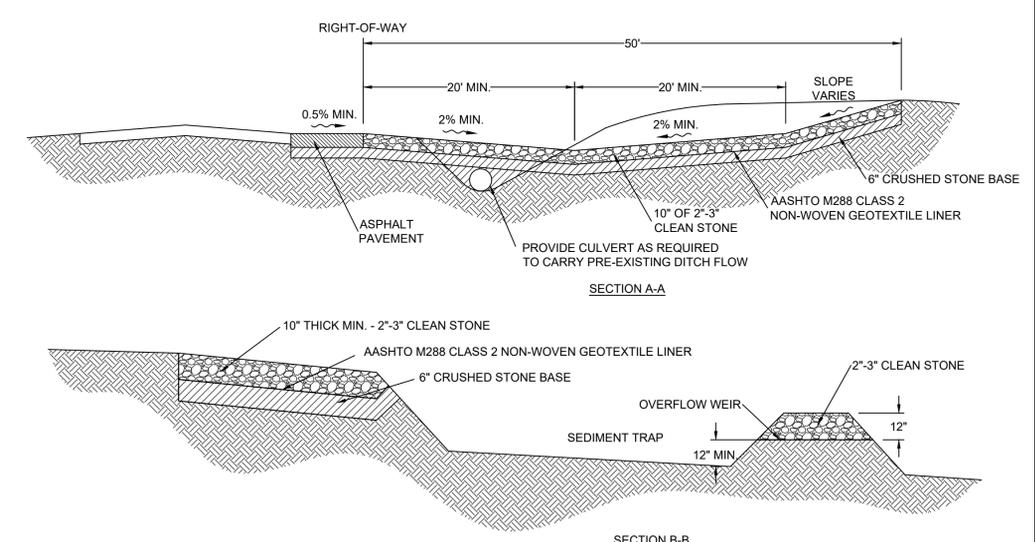
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



TEMPORARY CONCRETE WASHOUT (ABOVE GRADE) (CW)

DETAIL NOTES:

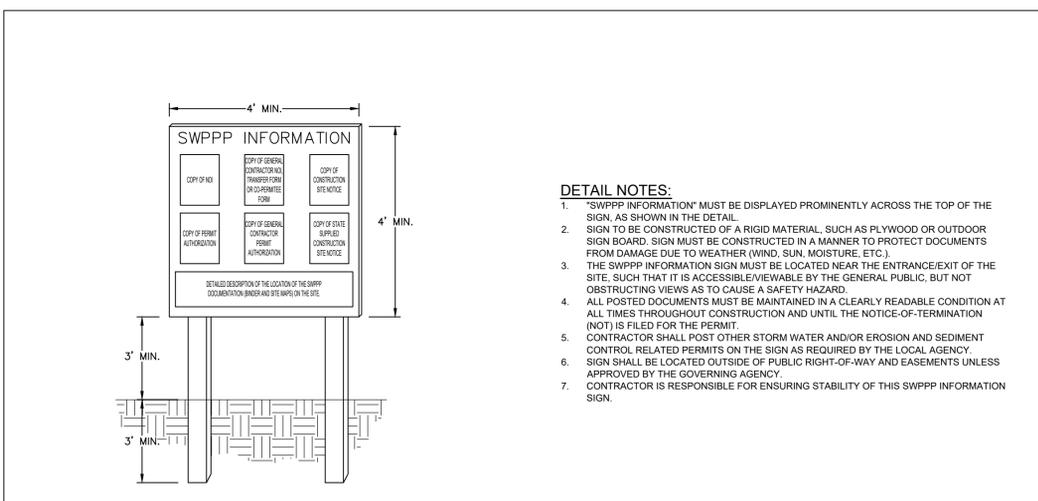
- *DENOTES THE INTERIOR DIMENSION.
- CONCRETE WASHOUT SHALL BE AT LEAST 50 FT. FROM ANY STORM SEWER INLET.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



CONSTRUCTION ENTRANCE / EXIT (CE)

DETAIL NOTES:

- PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED.
- FLUSH SURFACE STONE TOWARD SEDIMENT TRAP WITH HIGH VOLUME WATER FLOW AS NEEDED TO MAINTAIN CLEAN SURFACE STONE.
- PLACEMENT OF SEDIMENT TRAP SHALL BE AT LEAST THE MINIMUM DISTANCE FROM THE RIGHT OF WAY AS REQUIRED BY LOCAL JURISDICTION.



SWPPP INFORMATION SIGN (SS)

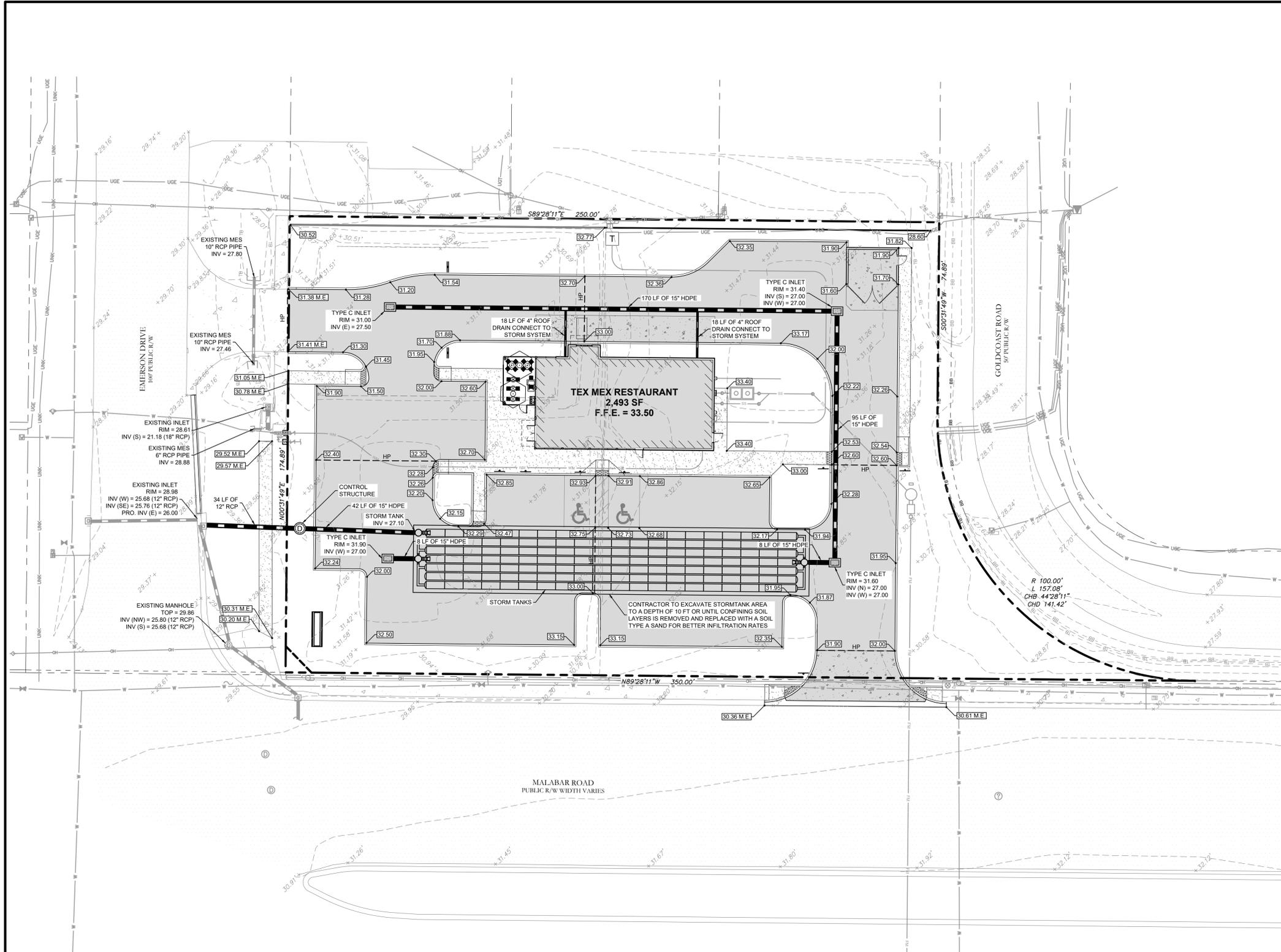
DETAIL NOTES:

- "SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.
- SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).
- THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VISIBLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
- ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
- CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
- SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

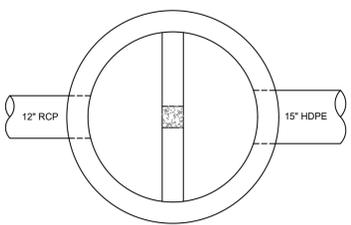
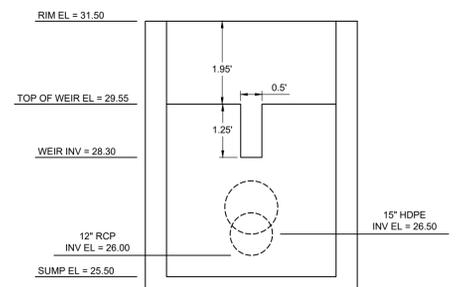
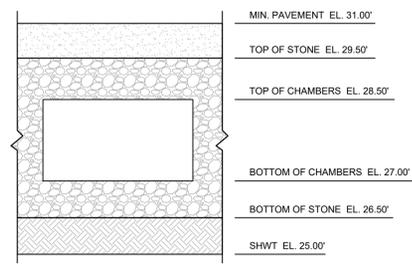
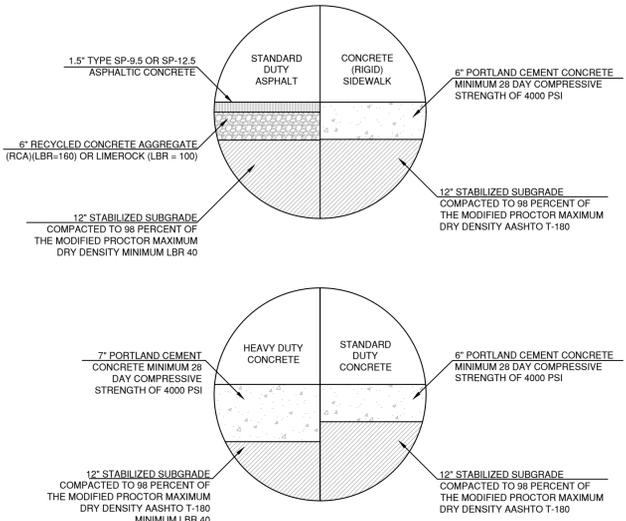
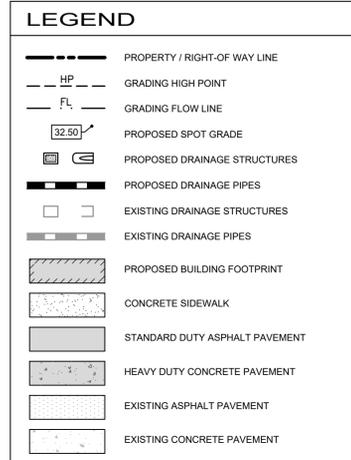


ANDREW J. PETERSEN
LICENSE NO. 75493

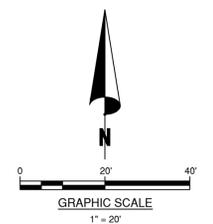
PLAN STATUS		
DATE	DESCRIPTION	
DESIGN	DRAWN	CHKD
SCALE:	AS SHOWN	
JOB No.	011476-01-001	
DATE:	2/21/2024	
FILE:	011476-D-CP-001-ECP	
SHEET	C4.0	



- ### NOTES
- ALL ELEVATIONS SHOWN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - REFER TO TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION AND EXISTING SYMBOL LEGEND.
 - IN GENERAL, ITEMS SHOWN AS BOLD LINEWORK REPRESENT PROPOSED FEATURES TO BE CONSTRUCTED AS PART OF THIS PROJECT. UNLESS NOTED OTHERWISE, SIMILARLY, SHADED LINEWORK TYPICALLY REPRESENTS EXISTING FEATURES OR ITEMS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY AND SHALL LOCATE ALL UTILITIES PRIOR TO GRADING COMMENCEMENT.
 - TREE BARRICADE AT DRIP LINE OF TREE SHALL BE PROTECTED UNTIL CONSTRUCTION ACTIVITY IN VICINITY REQUIRES REMOVAL.
 - ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA WHERE INDICATED ON THE APPROVED PLANS. ALL PRUNING SHALL BE PERFORMED USING A DOSKO ROOT CUTTER OR EQUIVALENT.
 - SITE WORK SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
 - ALL AREAS DISTURBED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SODDED.
 - GENERAL CONTRACTOR SHALL SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS.
 - GENERAL CONTRACTOR SHALL PAVE INVERTS IN DRAINAGE STRUCTURES TO PREVENT IMPOUNDED WATER.
 - ALL CONCRETE USED FOR SIDEWALKS, ROADWAY AND DRAINAGE STRUCTURES MUST MEET TxDOT STANDARDS.
 - THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL ITEMS DESIGNATED FOR REMOVAL IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS. SUCH MATERIAL, WHETHER HAZARDOUS OR NON-HAZARDOUS, LAND-CLEARING, CONSTRUCTION OR DEMOLITION DEBRIS SHALL BE PROPERLY HANDLED AND TRANSPORTED TO AN APPROPRIATE OFF-SITE FACILITY.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT-HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT STORM DRAINAGE DESIGN.
 - SLOPES WITHIN THE ACCESSIBLE PARKING AREA AND ACCESS PATHWAY SHALL NOT EXCEED 2.0%.
 - ALL PROPOSED SPOT ELEVATIONS ARE PAVEMENT GRADES, UNLESS OTHERWISE NOTED.
 - TOP OF CURBS ARE ASSUMED TO BE 0.5' ABOVE PAVEMENT GRADES UNLESS NOTED ON PLAN.



ALL SITE PREPARATION TO BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY EGS. CONTRACTOR TO CONFIRM THIS IS THE LATEST REPORT AND THAT NO ADDENDUMS WERE ISSUED PRIOR TO CONSTRUCTION.



Bowman

Certificate of Authorization License No. 30462

Bowman Consulting Group, Ltd.
4450 W. Eau Gallie Blvd
Suite 144
Melbourne, FL 32934
Phone: (321) 255-5434
Fax: (321) 255-7751
www.bowman.com
© 2024 Bowman Consulting Group Ltd.

GRADING PLAN

TEX MEX RESTAURANT

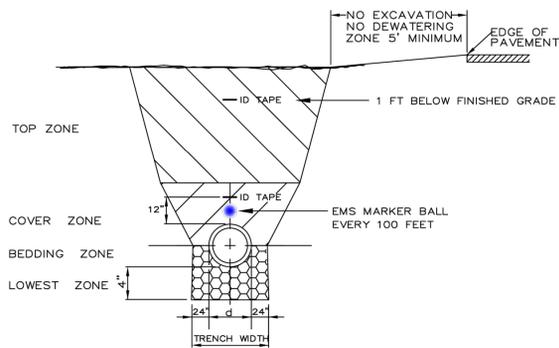
1491 EMERSON DR. NE
PALM BAY, FL 32907



ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS		
DATE	DESCRIPTION	
	DESIGN	
	DRAWN	
	CHKD	
	SCALE:	AS SHOWN
	JOB No.	011476-01-001
	DATE:	2/21/2024
	FILE:	011476-D-CP-001-PG0
SHEET	C6.0	





- GENERAL NOTES:
- WHEN PERFORMING TRENCH EXCAVATION IN EXCESS OF FIVE (5) FEET IN DEPTH, COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH SAFETY STANDARDS, 29 C.F.R., S. 1926.650, SUBPART P, AND ALL SUBSEQUENT REVISIONS OR UPDATES ADOPTED BY THE DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY. ENSURE THAT TRENCH BOXES ARE WIDE ENOUGH TO ACCOMMODATE COMPACTION AND DENSITY TESTING.
 - PERFORM ALL EXCAVATIONS IN STREAM BEDS TO A DEPTH AT LEAST FOUR (4) FEET BELOW THE PERMANENT BED OF THE STREAM, UNLESS A FIRM FOOTING CAN BE ESTABLISHED ON SOLID ROCK BEFORE SUCH DEPTH IS REACHED, AND EXCAVATE TO SUCH ADDITIONAL DEPTH AS MAY BE NECESSARY TO ELIMINATE ANY DANGER OF UNDERMINING.
 - EXCAVATE TRENCHES FOR WATER MAIN/FORCE MAIN/REUSE/GRAVITY SEWER TO THE ELEVATION OF THE BOTTOM OF THE PIPE AND TO A WIDTH AS NOTED IN DETAILS. REMOVE SOIL NOT MEETING THE CLASSIFICATION SPECIFIED AS SUITABLE BACKFILL MATERIAL TO A DEPTH OF FOUR (4) INCHES BELOW BOTTOM OF THE PIPE ELEVATION. REMOVE ROCK, BOULDERS OR OTHER HARD LUMPY OR UNYIELDING MATERIALS TO A DEPTH OF TWELVE (12) INCHES BELOW THE BOTTOM OF THE PIPE ELEVATION. REMOVE MUCK OR OTHER SOFT MATERIALS TO A DEPTH NECESSARY TO ESTABLISH A FIRM FOUNDATION. WHERE THE SOILS PERMIT, ENSURE THAT THE TRENCH SIDES ARE VERTICAL UP TO AT LEAST THE MID-POINT OF THE PIPE.

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

EXCAVATION AND BACKFILL FOR UTILITIES PIPE
PAGE 1

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 10-26-10
FIG 1

- (CONT. FROM SHEET 1)
- GENERAL NOTES:
- PROVIDE NORMAL DEWATERING EQUIPMENT INCLUDING, BUT NOT LIMITED TO SURFACE PUMPS, SUMP PUMPS, WELLPOINTS AND HEADER PIPE AND TRENCHING/DIGGING MACHINERY.
 - BACKFILL TO THE ORIGINAL GROUND SURFACE OR SUBGRADE SURFACE OF OPENINGS MADE FOR STRUCTURES, WITH A SUFFICIENT ALLOWANCE FOR SETTLEMENT. DO NOT ALLOW HEAVY CONSTRUCTION EQUIPMENT TO CROSS OVER CULVERT OR STORM SEWER PIPES UNTIL PLACING AND COMPACTING BACKFILL MATERIAL TO THE FINISHED EARTHWORK GRADE OR TO AN ELEVATION AT LEAST (4) FEET ABOVE THE CROWN OF THE PIPE.
 - PLACE THE MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING SIX (6) INCHES COMPACTED THICKNESS, IN DEPTH ABOVE WATER LEVEL, BEHIND ABUTMENTS, WINGWALLS AND END BENTS, UNDER THE HAUNCHES OF THE PIPES AND AROUND BOX CULVERTS AND ALL STRUCTURES INCLUDING PIPE CULVERTS. THE CONTRACTOR MAY ELECT TO PLACE MATERIAL IN THICKER LIFTS OF NO MORE THAN 12 INCHES COMPACTED THICKNESS OUTSIDE THE SOIL ENVELOPE IF HE/SHE CAN DEMONSTRATE WITH THE SUCCESSFUL TEST SECTION THAT DENSITY CAN BE ACHIEVED.
 - MATERIAL:
 - LOWEST ZONE: BACKFILL AREAS UNDERCUT BELOW THE BEDDING ZONE OF A PIPE WITH COURSE SAND, OR OTHER SUITABLE GRANULAR MATERIAL, OBTAINED FROM THE GRADING OPERATIONS ON THE PROJECT, OR A COMMERCIAL MATERIAL IF NO SUITABLE MATERIAL IS AVAILABLE.
 - SOIL ENVELOPE: IN BOTH THE BEDDING ZONE AND THE COVER ZONE OF THE PIPE, BACKFILL WITH MATERIALS CLASSIFIED AS A-1, A-2, OR A-3. MATERIAL CLASSIFIED AS A-4 MAY BE USED IF THE PIPE IS CONCRETE PIPE.
 - TOP ZONE: BACKFILL THE AREA OF THE TRENCH ABOVE THE SOIL ENVELOPE OF THE PIPE WITH MATERIALS CLASSIFIED AS A-1 OR A-3. WHEN PIPE IS UNDER ROADWAY, BACKFILL TO BOTTOM OF ROADWAY SUBGRADE. SUBGRADE AND MATERIAL SHALL BE IN ACCORDANCE WITH PLANS.
 - COMPACTION:
 - LOWEST ZONE: COMPACT THE SOIL IN THE LOWEST ZONE TO APPROXIMATELY MATCH THE DENSITY OF THE SOIL IN WHICH THE TRENCH WAS CUT.
 - BEDDING ZONE: IF THE TRENCH WAS NOT UNDERCUT BELOW THE BOTTOM OF THE PIPE, LOOSEN THE SOIL IN THE BOTTOM OF THE TRENCH IMMEDIATELY BELOW THE APPROXIMATE MIDDLE THIRD OF THE OUTSIDE DIAMETER OF THE PIPE. IF THE TRENCH WAS UNDERCUT, PLACE THE BEDDING MATERIAL AND LEAVE IT IN A LOOSE CONDITION BELOW THE MIDDLE THIRD OF THE OUTSIDE DIAMETER OF THE PIPE. COMPACT THE MATERIAL TO 100% MAXIMUM DENSITY PER AASHTO T-99 METHOD C. PLACE THE MATERIAL IN LIFTS NO GREATER THAN SIX (6) INCHES (COMPACTED THICKNESS).

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

EXCAVATION AND BACKFILL FOR UTILITIES PIPE
PAGE 2

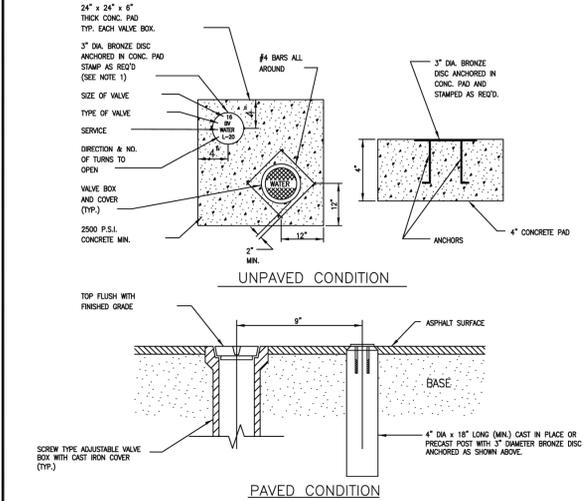
DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 10-26-10
FIG 1

- (CONT. FROM SHEET 2)
- COVER ZONE: BEFORE PLACING THE COVER ZONE MATERIAL, LAY PIPE ACCORDING TO ALIGNMENT AND GRADES GIVEN. DO NOT ALLOW DEPARTURE FROM ALIGNMENT OR GRADE TO EXCEED 1/16 PER FOOT OF NOMINAL PIPE LENGTH. TAKE UP AND RELAY ANY PIPE THAT IS NOT TRUE TO ALIGNMENT OR WHICH SHOWS SETTLEMENT AFTER LAYING. EXCAVATE FOR PIPE BELLS BEFORE LAYING PIPE. PLACE THE MATERIAL IN SIX (6) INCH LAYERS (COMPACTED THICKNESS), EVENLY DEPOSITED ON BOTH SIDES OF THE PIPE, AND COMPACT WITH MECHANICAL TAMPERS SUITABLE FOR THIS PURPOSE. HAND TAMP MATERIAL BELOW THE PIPE HAUNCH THAT CANNOT BE REACHED BY MECHANICAL TAMPERS. COMPACT THE MATERIAL TO 98% MAXIMUM DENSITY PER AASHTO T-99 METHOD C.
 - TOP ZONE: PLACE THE MATERIAL IN LAYERS NOT TO EXCEED 12 INCHES IN COMPACTED THICKNESS. COMPACT THE MATERIAL TO 95% MAXIMUM DENSITY PER AASHTO T-99 METHOD C FOR GREATER THAN 12 INCHES OUTSIDE OF ROADWAY, 98% FOR AREAS LESS THAN 12 INCHES TO THE EDGE OF PAVEMENT AND UNDER THE ROADWAY.
 - BACKFILL UNDER WET CONDITIONS: WHERE WET CONDITIONS ARE SUCH THAT DEWATERING BY NORMAL PUMPING METHODS WOULD NOT BE EFFECTIVE, THE USE OF COURSE AGGREGATE BELOW THE ELEVATION AT WHICH MECHANICAL TAMPERS WOULD BE EFFECTIVE WOULD BE ACCEPTABLE. USE COURSE AGGREGATE AS SPECIFIED IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 901 FOR AGGREGATE SIZE NUMBER 89, 8, 7B, 7, 6B, 6, OR 57. PLACE THE COURSE AGGREGATE SUCH THAT IT WILL BE STABLE AND FIRM, FULLY WRAP THE AGGREGATE WITH A LAYER OF TYPE D-4 FILTER FABRIC, AS SPECIFIC ON FDOT DESIGN STANDARDS INDEX NO. 199. DO NOT PLACE COURSE AGGREGATE WITHIN FOUR (4) FEET OF THE ENDS OF THE TRENCH OR DITCH. USE NORMALLY ACCEPTED BACKFILL MATERIAL AT THE ENDS.

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

EXCAVATION AND BACKFILL FOR UTILITIES PIPE
PAGE 3

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 1-28-10
FIG 1

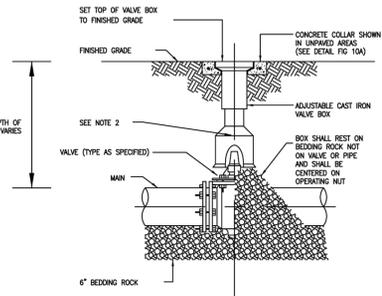


- NOTES:
- BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES AND SHALL BE IMBEDDED WITH ANCHORS IN FRESH CONCRETE. IF THE CONCRETE IS PREVIOUSLY CURED, THE IDENTIFICATION DISC SHALL BE WELDED, EPXY APPLIED, AND BOLTED TO THE EXISTING CONCRETE WITHOUT MARRING THE IDENTIFICATION INFORMATION.
 - VALVE COVERS SHALL BE ROUND AND MARKED "WATER", "TREATED WATER", OR "SEWER".
 - VALVE COVERS SHALL BE PAINTED BLUE FOR WATER, GREEN FOR SEWER, OR WHITE FOR FIRE HYDRANT VALVES.
 - CONCRETE COLLAR TO BE USED IN UNPAVED AREAS ONLY.
 - VALVES SHALL NOT BE LOCATED IN STREET CURBS.

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

VALVE BOX COLLAR DETAILS WITH ID DISK

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 9-19-11
FIG 10A

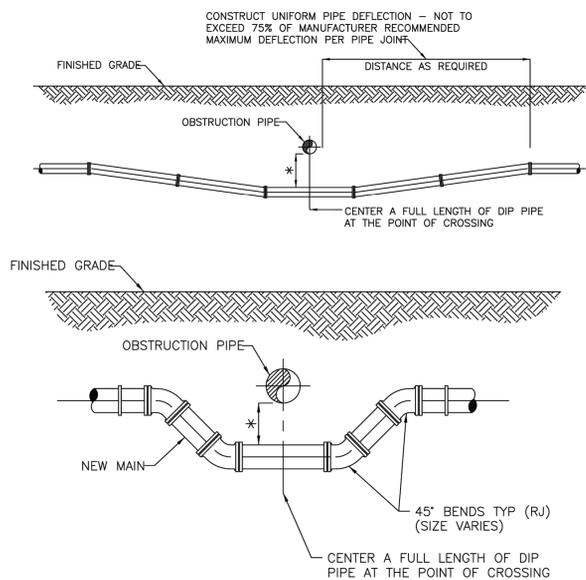


- NOTES:
- AWWA C-900 DR 18 PVC EXTENSIONS ARE ALLOWED FOR VALVES LESS THAN 16\"/>

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

GATE/PLUG VALVE AND BOX DETAIL

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 9-19-11
FIG 10B

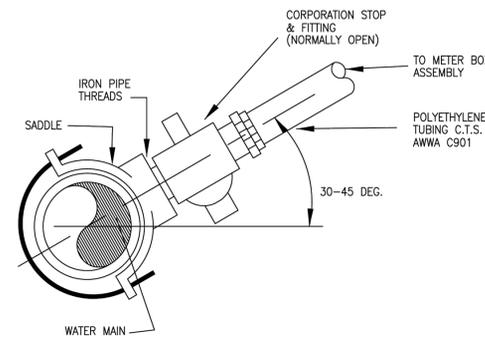


- * PIPE CROSSING CONFLICTS WILL BE RESOLVED IN ACCORDANCE WITH THE SEPARATIONS REQUIREMENTS NOTED IN FAC62-555-314(1) AND OR THE FDEP PERMIT. FDEP IS THE SOLE MITIGATION AUTHORITY FOR CONFLICT RESOLUTION AND THE CONTRACTOR WILL SUBMIT REQUEST FOR PIPE SEPARATION MITIGATION THROUGH THE PROJECT ENGINEER TO FDEP. ONLY THE FDEP WRITTEN MITIGATION WILL BE REFLECTED IN THE UTILITY AS-BUILT DRAWINGS. (REF SECTO2660)

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

DEFLECTION OF PIPE DETAIL AT UTILITY CROSSING BY JOINT DEFLECTION

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 1-29-10
FIG 13



- NOTES:
- ALL MATERIALS MUST CONFORM TO THE CITY OF PALM BAY, UTILITIES DEPARTMENT POLICIES, PROCEDURES AND STANDARDS HANDBOOK SPECIFICATIONS

CITY OF PALM BAY, UTILITIES DEPARTMENT
POLICIES, PROCEDURES AND STANDARDS
INSTALLATION DETAIL

TYPICAL MAIN CONNECTION

DWN. BY: M.K.L. DATE: 1-1-08
REV. E.K.R. DWG. NO. 1-29-10
W-6A

Bowman

Bowman Consulting Group, Ltd.
4450 W. Eau Gallie Blvd
Suite 144
Melbourne, FL 32934
Phone: (321) 255-5434
Fax: (321) 255-7751
www.bowman.com

DETAILS
TEX MEX RESTAURANT
1491 EMERSON DR. NE
PALM BAY, FL 32907



ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS		
DATE	DESCRIPTION	
-	-	-
DESIGN	DRAWN	CHKD
SCALE:	AS SHOWN	
JOB No.	011476-01-001	
DATE:	2/21/2024	
FILE:	011476-D-0P-001-DET	
SHEET	C8.0	



Certificate of Authorization License No. 30462

BREVARD COUNTY

CITY OF PALM BAY

