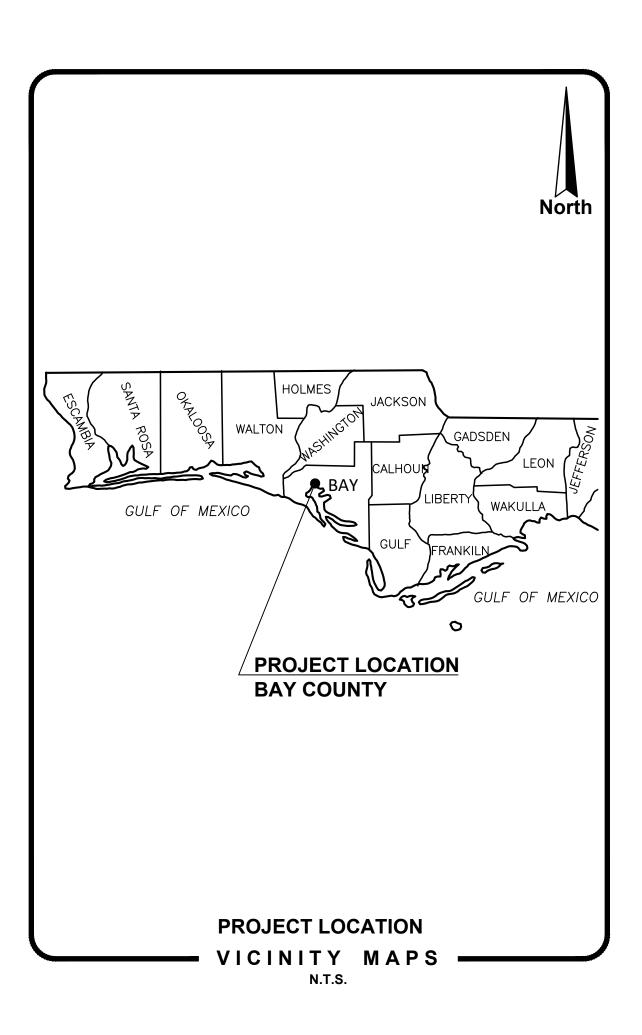
DESIGN DRAWINGS FOR:

TERMINAL PARKING EXPANSIONS

NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT (ECP) PANAMA CITY, FLORIDA





HOLLY K. MELZER, CHAIR MAYOR MARK SHELDON, VICE CHAIR **GLEN MCDONALD JAMES JOHNSON WILL CRAMER** LES MCFATTER

AIRPORT AUTHORITY BOARD OF DIRECTORS

BRIAN KELLENBERGER



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NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT

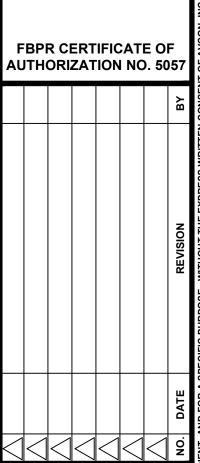
6300 WEST BAY PARKWAY, SUITE A PANAMA CITY, FLORIDA 32405 TELEPHONE: (850) 636-8965

EXECUTIVE DIRECTOR: PARKER W. McCLELLAN, JR. A.A.E.

DRAFT - RELEASE FOR BID







DESIGNED BY: DRAWN BY: CHECKED BY:

APPROVED BY: PROJECT NO: 2022.073.01 DATE: SEPT 9, 2022

SHEET NUMBER

- 2. THIS DESIGN HAS BEEN BASED UPON FIELD SURVEY PREPARED BY SCR & ASSOCIATES ENGINEERING-SURVEYING, DATED JANUARY 27 , 2022. GEOTECHNICAL TESTING PREPARED BY NOVA GEOTECHNICAL AND ENVIRONMENTAL, REPORT DATED MAY 13, 2022. AVCON INC. MAKES NO ASSURANCES REGARDING THE ACCURACY OF SUCH SURVEY OR GEOTECHNICAL EVALUATION.
- 3. ALL QUALITY CONTROL TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN THE SPECIFICATIONS.
- 4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL QUALITY CONTROL TESTING REQUIRED IN THE CONTRACT SPECIFICATIONS. THE ENGINEER RESERVES THE RIGHT TO CONDUCT QUALITY ACCEPTANCE TESTING TO CHECK THE CONTRACTOR'S TEST RESULTS.
- 5. THE CONTRACTOR SHALL PREPARE A WRITTEN QUALITY CONTROL / QUALITY ACCEPTANCE PLAN THAT DESCRIBES THE CONTRACTOR QUALITY CONTROL PROGRAM AND THE CONTRACTOR'S QUALITY ACCEPTANCE TESTING REQUIREMENTS. THIS WRITTEN PLAN MUST BE SUBMITTED PRIOR TO ISSUANCE OF THE NOTICE-TO-PROCEED.
- 6. THE PROJECT PAY ITEMS ARE PROVIDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL WORK NOT IDENTIFIED UNDER A SPECIFIC PAY ITEM SHALL BE CONSIDERED REQUIRED AND IS INCIDENTAL TO THE COST OF THE PROJECT PAY ITEMS PROVIDED.
- 7. CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING, SIDEWALKS, PAVEMENTS, CURBS, SEEDING, AND SOD NOT SPECIFIED FOR REMOVAL IN THESE PLANS. ANY DAMAGE TO THE EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE SPECIFIED HEREIN.
- 8. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUB-SURFACE CONDITIONS. THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.
- 9. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, WATER, SEWER, GAS, ELECTRICAL, AND TELEPHONE FACILITIES SUCH AS PAVEMENTS, PIPING. WIRES. CABLES. CONDUITS. POLES. GUYS. OR OTHER SIMILAR FACILITIES. INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
- 12. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS. AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL. STATE AND LOCAL BUILDING AND SAFETY CODES, SPECIFICATIONS, LAWS AND ORDINANCES. TO INCLUDE BUT NOT LIMITED TO THE FAA. THE FDOT, THE FLORIDA BUILDING CODE, AND THE BAY COUNTY CODES.
- 13. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- 14. PRIOR TO PERFORMING ANY WORK WITHIN ANY UTILITY RIGHT-OF-WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY.
- 15. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- 16. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM. CERTIFICATION OF THE RESET OR REPLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 17. THE OWNER. OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS. SHALL AT ALL CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
- 18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE UNAUTHORIZED ACCESS OR USE UNTIL SUCH TIME THAT THE OWNER TAKES WRITTEN OWNERSHIP OF THE COMPLETED PROJECT. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
- 19. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY THE MANUFACTURER.
- 20. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORMWATER PONDS, CANALS) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
- 21. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
- 21.1. ALL EMPLOYEES ON THE WORK SITE AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
- 21.2. ALL WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS:
- 21.3. ANY OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.
- 22. CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS ON MAIN AIRPORT ENTRANCE ACCESS ROAD, ON GENERAL AVIATION ACCESS ROAD, AND ON THE AIRSIDE AIRPORT ACCESS ROAD AT ALL TIMES.
- 23. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI-PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
- 24. ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 22.1 AND 22.3 CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.

- 25. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE 42. ENGINEER SHALL REVIEW RED LINE (AS-BUILT) DRAWINGS MONTHLY AT ALTERNATE BI-WEEKLY JOB OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
- 26. THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- 27. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.
- 28. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
- 29. THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
- 30. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL GOVERN.
- 31. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT AN EROSION CONTROL PLAN TO MINIMIZE EROSION AND ENSURE FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION. EROSION CONTROL PLAN SHALL INCLUDE PROVISIONS TO STABILIZE DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE DISTURBANCE WITH A WRITTEN LOG OF THE EVENTS. CONTRACTOR SHALL SUBMIT EROSION CONTROL PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 32. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED PARAGRAPH 40.) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.
- 33. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 34. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS
- POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR 35. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEAN—UP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THIS ARTICLE.
- TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE 36. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF REGULATIONS, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING.
- THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM 37. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE. CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE. UNDERGROUND STORAGE TANK OR OTHER CONTAINER. OF ANY KIND. THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING.
 - 38. IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH FEDERAL AND STATE REQUIREMENTS, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
 - 39. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF. OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
 - 40. THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
 - 41. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ENTITLED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE. BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR OWNER AUTHORIZED REPRESENTATIVE, DESIGN ENGINEER'S SERVICES, FIELD REPRESENTATIVE SERVICES, AND OTHER RELATED COSTS.

- COORDINATION MEETINGS. THE DRAWINGS CAN BE PROVIDED BY THE OWNER'S AUTHORIZED REPRESENTATIVE OR THE CONTRACTOR. NO PERIODIC PAY REQUESTS WILL BE PROCESSED UNTIL THIS PROVISION IS MET.
- 43. TYPE AND HEIGHT (NOT-TO-EXCEED) OF CONSTRUCTION EQUIPMENT: TRUCKS (DUMP, FLATBED, PANEL, PICKUP, CONCRETE) - 35 FEET FRONT END LOADERS - 35 FEET DOZERS - 35 FEET CRANE - 50 FEET* ROLLERS AND COMPACTORS - 35 FEET

*NOTE - CONSTRUCTION EQUIPMENT LOCATIONS SHALL NOT VIOLATE RUNWAY 7 TO 1 TRANSITIONAL SURFACES AND RUNWAY APPROACH ZONE HEIGHT LIMITATIONS PER SAFETY DURING CONSTRUCTION PLAN EXCEPT UNDER SPECIAL WAIVER CONDITIONS. APPROPRIATE WAIVERS MUST BE OBTAINED BY THE OWNER FROM FAA.

- 44. THE FOLLOWING FAA ADVISORY CIRCULARS SHALL APPLY TO THIS PROJECT, CURRENT EDITION:
- AC 150/5300-13B- AIRPORT DESIGN
- AC 150/5340-18F STANDARDS FOR AIRPORT SIGN SYSTEMS
- AC 150/5340-30J DESIGN AND INSTALLATION DETAILS FOR VISUAL AIDS

AC 150/5345-46E SPECIFICATION FOR RUNWAY AND TAXIWAY LIGHT FIXTURES

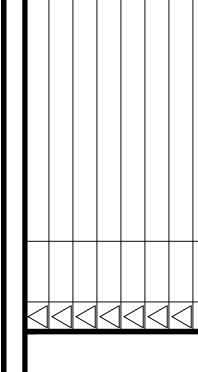
- AC 150/5370-10H STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS AC 150/5345-44K SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS
- AC 150/5340-1M STANDARD FOR AIRPORT MARKINGS
- 45. CONTRACTOR SHALL ABIDE BY FEDERAL BUY AMERICAN REQUIREMENTS.

PERMITS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS IN REGARD TO NOISE CONTROL, EROSION CONTROL, DUST CONTROL, WATERSHED, EMISSIONS, AND OPEN-AIR BURNING DURING CONSTRUCTION WHICH PERTAIN TO CONSTRUCTION ACTIVITIES. COPIES OF ALL PERMITS SHALL BE SUBMITTED TO THE ENGINEER FOR THEIR RECORDS.
- AS REQUIRED UNDER ACT OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), THE CONTRACTOR SHALL PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. A COPY OF THE NOI AND SWPPP SHALL BE SUBMITTED TO THE ENGINEER FOR THEIR RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SWPPP CURRENT UNTIL PROJECT COMPLETION AND FINAL ACCEPTANCE OF THE



CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF **AUTHORIZATION NO. 5057**



RM AND
PARKIN AN EE ONG-PLOYI EXP

C.A.P DESIGNED BY: DRAWN BY: C.A.P. CHECKED BY: T.D.N. APPROVED BY: PROJECT NO: 2022.073.01

SHEET NUMBER

DATE: SEPT 9, 2022

ECP LONG	-TERM AND	EMPLOYEE PARKING EXPANSION - BASE BID - VOLUME I		
ITEM NO.	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION - BASE BID	LS	1
2	102-1	MAINTENANCE OF TRAFFIC - BASE BID	LS	1
3	104-1	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION - BASE BID	LS	1
4	110-1	STRIPPING AND STOCKPILING	AC	2
5	110-2	MISCELLEANOUS DEMOLITION - BASE BID	LS	1
6	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT - CUT	CY	275
7	120-2	UNCLASSIFIED EXCAVATION AND EMBANKMENT - FILL	CY	7,000
8	160-1	12" STABILIZED SUBBASE	SY	6,010
9	285-1	6" LIMEROCK BASE COURSE	SY	5,720
10	334-1	2.5" SUPERPAVE ASPHALTIC CONCRETE	TON	750
11	425-1	FDOT TYPE 4 CURB INLET	EA	3
12	425-2	FDOT TYPE 6 (RH) CURB INLET	EA	1
13	425-3	FDOT TYPE 'P' ALT A MANHOLE W/ SOLID TOP	EA	1
14	425-4	36" MES	EA	1
15	425-5	FDOT TYPE 'F' DBI	EA	2
16	425-6	FDOT TYPE 'F' TOP W/ 4' x 4' (INNER WIDTH) TYPE 'J' ALT B BOTTOM	EA	3
17	425-7	EXISTING MANHOLE MODIFICATIONS	EA	3
18	430-1	30" ADS, N-12 PIPE	LF	470
19	430-2	36" ADS, N-12 PIPE	LF	425
20	520-1	F-CURB	LF	2,175
21	522-1	CONCRETE SIDEWALK (6")	SY	110
22	546-1	PERMANENT RAISED RUMBLE STRIPS - SET	EA	5
23	570-1	SODDING	SY	4,350
24	700-1	SIGNAGE - BASE BID	LS	1
25	710-1	PAVEMENT MARKINGS	SF	2,130
26	711-1	THERMOPLASTIC MARKINGS (WITHIN RIGHT-OF-WAY)	LS	1
27	LIGHT-1	SITE LIGHTING - COMPLETE	LS	1

ECP CELL	LOT EXPAN	NSION - BASE BID - VOLUME II		
ITEM NO.	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
28	110-1	STRIPPING AND STOCKPILING	AC	1
29	110-3	MISCELLEANOUS DEMOLITION - CELL PHONE LOT	LS	1
30	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT - CUT	CY	50
31	120-2	UNCLASSIFIED EXCAVATION AND EMBANKMENT - FILL	CY	200
32	160-1	12" STABILIZED SUBBASE	SY	1,260
33	285-2	8" LIMEROCK BASE COURSE	SY	1,200
34	334-2	2" SUPERPAVE ASPHALTIC CONCRETE	TON	130
35	425-8	FDOT TYPE 'C' DBI	EA	2
36	430-3	18" RCP	LF	130
37	520-1	F-CURB	LF	510
38	570-1	SODDING	SY	400
39	700-2	SIGNAGE - CELL PHONE LOT	LS	1
40	710-1	PAVEMENT MARKINGS	SF	600

ITEM NO.	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
41	101-2	MOBILIZATION - ADD. ALT. NO. 1	LS	1
42	102-2	MAINTENANCE OF TRAFFIC - ADD. ALT. NO. 1	LS	1
43	104-2	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION - ADD. ALT. NO. 1	LS	1
44	110-1	STRIPPING AND STOCKPILING	AC	4.50
45	110-4	MISCELLEANOUS DEMOLITION - ADD. ALT. NO. 1	LS	1
46	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT - CUT	CY	6,400
47	120-2	UNCLASSIFIED EXCAVATION AND EMBANKMENT - FILL	CY	6,750
48	160-1	12" STABILIZED SUBBASE	SY	13,530
49	285-1	6" LIMEROCK BASE COURSE	SY	12,880
50	334-2	2" SUPERPAVE ASPHALTIC CONCRETE	TON	1,350
51	425-7	EXISTING MANHOLE MODIFICATIONS	EA	1
52	425-8	FDOT TYPE 'C' DBI	EA	13
53	425-9	FDOT TYPE 'P' TOP (SOLID GRATE) w/ 3'-6" x 10'-0" (INNER WIDTH) TYPE 'J' ALT B BOTTOM	EA	3
54	425-10	24" MES	EA	1
55	430-4	18" ADS, N-12 PIPE	LF	390
56	430-5	24" ADS, N-12 PIPE	LF	1,040
57	430-6	36" RCP	LF	1,725
58	520-1	F-CURB	LF	3,650
59	522-1	CONCRETE SIDEWALK (6")	SY	680
60	570-1	SODDING	SY	8,750
61	700-3	SIGNAGE - ADD. ALT. NO. 1	LS	1
62	710-1	PAVEMENT MARKINGS	SF	3,300
63	ACCESS-1	SITE ACCESS CONTROL - COMPLETE	LS	1
64	LIGHT-2	SITE LIGHTING - COMPLETE	LS	1
65	WH-1	WHEEL STOPS	EA	130

ITEM NO.	BID ITEM	ITEM DESCRIPTION	LINIT	QUANTITY
TILIVI INO.	DID ITEIW	TIEW BEOOK! HOW	101111	QUANTITI
66	101-3	MOBILIZATION - ADD. ALT. NO. 2	LS	1
67	102-3	MAINTENANCE OF TRAFFIC - ADD. ALT. NO. 2	LS	1
68	104-3	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION - ADD. ALT. NO. 2	LS	1
69	110-1	STRIPPING AND STOCKPILING	AC	1.5
70	110-5	MISCELLEANOUS DEMOLITION - ADD. ALT. NO. 2	LS	1
71	120-2	UNCLASSIFIED EXCAVATION AND EMBANKMENT - FILL	CY	6,900
72	425-7	EXISTING MANHOLE MODIFICATIONS	EA	1
73	425-9	FDOT TYPE 'P' TOP (SOLID GRATE) w/ 3'-6" x 10'-0" (INNER WIDTH) TYPE 'J' ALT B BOTTOM	EA	3
74	430-2	36" ADS, N-12 PIPE	LF	1,725
75	570-1	SODDING	SY	6,600

ECP OVER	RFLOW LOT,	ENTRY TO PARKING LOT - ADDITIVE ALTERNATE NO. 3 - VOLUME III & IV		
ITEM NO.	BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
76	101-4	MOBILIZATION - ADD. ALT. NO. 3	LS	1
77	102-4	MAINTENANCE OF TRAFFIC - ADD. ALT. NO. 3	LS	1
78	104-4	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION - ADD. ALT. NO. 3	LS	1
79	110-1	STRIPPING AND STOCKPILING	AC	0.25
80	110-6	MISCELLEANOUS DEMOLITION - ADD. ALT. NO. 3	LS	1
81	120-1	UNCLASSIFIED EXCAVATION AND EMBANKMENT - CUT	CY	10
82	120-2	UNCLASSIFIED EXCAVATION AND EMBANKMENT - FILL	CY	190
83	160-1	12" STABILIZED SUBBASE	SY	230
84	285-1	6" LIMEROCK BASE COURSE	SY	210
85	334-2	2" SUPERPAVE ASPHALTIC CONCRETE	TON	25
86	520-1	F-CURB	LF	275
87	570-1	SODDING	SY	1,000
88	700-3	SIGNAGE - ADD. ALT. NO. 3	LS	1
89	710-1	PAVEMENT MARKINGS	SF	28
90	ACCESS-1	SITE ACCESS CONTROL - COMPLETE	LS	1
91	LIGHT-2	SITE LIGHTING - COMPLETE	LS	1



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CALVIN A. PALMER
FL LICENSE NO.: 93779
FBPR CERTIFICATE OF
AUTHORIZATION NO. 5057

OF ES

SUMMARY OF QUANTITIES

LONG-TERM AND
EMPLOYEE PARKING
EXPANSION
PREPARED FOR

ED BY: C.A.P.
BY: C.A.P.
ED BY: T.D.N

DESIGNED BY: C.A.P
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01
DATE: SEPT 9, 2022

SHEET NUMBER

SAFETY NOTES (AIRFIELD):

1. SAFETY GUIDELINES - IN THE INTEREST OF SAFETY, THE CONTRACTOR IS ALSO DIRECTED TO ACQUAINT HIS/HER EMPLOYEES WITH THE PROVISIONS OF THE FOLLOWING FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS, CURRENT EDITION:

150/5370-2G - OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

150/5210-5D - PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT

150/5200-18C - AIRPORT SAFETY SELF-INSPECTION

150/5340-1M - STANDARDS FOR AIRPORT MARKINGS

- 2. AFTER COMPLETION OF WORK, THE CONTRACTOR SHALL RE-STRIPE ALL/ANY EXISTING RUNWAY, TAXIWAY, OR TAXILANE CENTERLINE MARKINGS WHICH WERE TEMPORARILY REMOVED FOR CONSTRUCTION OR DAMAGED DURING CONSTRUCTION, MATCHING ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 3. CONTRACTOR SHALL RELOCATE AND RESTORE AFTER COMPLETION OF CONSTRUCTION, ANY TAXIWAY CENTER LIGHTS, EDGE LIGHTS, OR GUIDANCE SIGNS THAT MAY EXIST WITHIN THE CONSTRUCTION AREA. IF REMOVED OR RELOCATED. CONTRACTOR SHALL PROVIDE "JUMPER CABLES" TO KEEP ELECTRICAL CIRCUITS IN OPERATION.
- 4. AIRPORT OPERATIONS THE CONTRACTOR SHALL APPOINT SAFETY OFFICERS IN ACCORDANCE WITH THE PROJECT MANUAL. THE CONTRACTOR SHALL ALSO ACQUAINT ALL SUPERVISORS AND EMPLOYEES WITH THE ACTIVITIES OF THE NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT AND OPERATIONS THAT ARE INHERENT AT THIS ACTIVE AIRPORT AND SHALL CONDUCT CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES ON SAFETY SPECIFIED IN THE PROJECT MANUAL AND AS SPECIFIED BY THE FIELD REPRESENTATIVE AND THE FAA.
- 5. VEHICLE IDENTIFICATION ALL CONTRACTOR VEHICLES THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' X 3' OR LARGER ORANGE AND WHITE CHECKERED FLAG, EACH CHECK BEING 1' SQUARE. COMPANY DECALS WITH NOT LESS THAN 6" LETTERS MAY BE SUBSTITUTED FOR FLAGS ON SUPERVISORY VEHICLES AND LIGHT TRUCKS. ALL VEHICLES OPERATING IN THE ACTIVE AIRPORT OPERATIONS AREA (AOA) DURING THE HOURS OF DARKNESS SHALL BE EQUIPPED WITH A FLASHING YELLOW DOME TYPE LIGHT MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES.
- 6. GROUND CONTROL NO CONTRACTOR VEHICLES OR EQUIPMENT SHALL ACCESS OR CROSS ACTIVE RUNWAYS, TAXIWAYS, OBJECT FREE AREAS AND APPROACH CLEAR ZONES. ACCESS ONTO THE WORK AREA SHALL BE LIMITED TO THE JOHNNY REAVER ROAD GATE.
- 7. WORK REQUIRING PAVEMENT CLOSURE SHALL BE PERFORMED IN ACCORDANCE WITH THE SAFETY PLANS AND THE PROJECT MANUAL. NO RUNWAY, TAXIWAY, APRON OR AIRPORT ROADWAY SHALL BE CLOSED WITHOUT APPROVAL OF AIRPORT MANAGEMENT. TO ENABLE NECESSARY NOTICES TO AIRMEN (NOTAMS) OR ADVISORIES TO AIRPORT SERVICES OR TENANTS, A MINIMUM OF SEVENTY—TWO (72) HOURS WRITTEN NOTICE OF REQUESTED CLOSING SHALL BE DIRECTED TO THE ENGINEER, WHO WILL COORDINATE THE REQUEST WITH AIRPORT OPERATIONS.
- 8. OPEN TRENCHES ANY CONSTRUCTION ABOVE 3" OR OPEN TRENCHES IN EXCESS OF 3" WITHIN 150' OF AN ACTIVE RUNWAY CENTERLINE OR WITHIN 48' FROM AN ACTIVE TAXIWAY CENTERLINE WILL REQUIRE CLOSURE OF THE AFFECTED RUNWAY OR TAXIWAY, UNLESS OTHERWISE APPROVED BY THE OWNER. (SEE NOTE 4 ABOVE). ALL TRENCHING MUST BE CONSTRUCTED TO MEET ALL FEDERAL, STATE (FLORIDA TRENCH SAFETY ACT) AND LOCAL LAWS (INCLUDES OSHA STANDARDS).
- 9. TRENCH MARKING OPEN TRENCHES AND EXCAVATIONS LOCATED WITHIN 200' FROM AN ACTIVE TAXIWAY CENTERLINE SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHTED BY APPROVED LIGHT UNITS (FLARE POTS NOT ALLOWED) DURING HOURS OF RESTRICTED VISIBILITY AND DARKNESS. THE CONTRACTOR WILL ENSURE THAT AN EMPLOYEE REMAINS ON—CALL TWENTY—FOUR (24) HOURS PER DAY FOR EMERGENCY MAINTENANCE OF HAZARD LIGHTING AND BARRICADES. NO OPEN TRENCHES ARE PERMITTED ADJACENT TO ACTIVE AOA, UNLESS APPROVED BY AIRSIDE OPERATIONS. THESE TRENCHES SHALL BE BACKFILLED WHEN THE CONTRACTOR IS NOT PERFORMING CONSTRUCTION IN THESE TRENCHES. DITCHES OR EXCAVATIONS PERMITTED TO REMAIN OPEN SHALL BE COMPLETELY ENCLOSED WITHIN AIRPORT—TYPE BARRICADES AND PROPERLY LIGHTED. INDIVIDUAL FLAGS AND/OR LIGHTS WILL NOT BE PERMITTED AROUND OPEN TRENCHES/EXCAVATIONS DURING NIGHTTIME HOURS.
- 10. OPEN FLAME OPEN FLAME, WELDING OR TORCH—CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED BY AIRPORT OPERATIONS.
- 11. STOCKPILE EROSION AND DUST CONTROL STOCKPILED MATERIAL AND OPEN EXCAVATIONS SHALL BE TREATED IN SUCH A MANNER AS TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS IN EXCESS OF 10 KNOTS. STOCKPILED MATERIALS SHALL NOT BE PERMITTED WITHIN 250' OF AN ACTIVE RUNWAY CENTERLINE OR 65.5' FROM AN ACTIVE TAXIWAY CENTERLINE.
- 12. DEBRIS CONTROL DEBRIS, WASTE AND LOOSE MATERIAL SHALL NOT BE ALLOWED ON ACTIVE AIRCRAFT MOVEMENT AREAS OR APRONS. IF OBSERVED TO BE ON ACTIVE AIRCRAFT MOVEMENT AREAS OR APRONS, THE MATERIAL WILL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE FIELD REPRESENTATIVE MAY DIRECT THAT DEBRIS PROBLEMS DURING CONSTRUCTION NOT CORRECTED BY THE CONTRACTOR BE CORRECTED BY OTHERS AT THE EXPENSE OF CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP THE PAVEMENTS ADJACENT TO THE WORK AREA CLEAR OF DEBRIS AND FOD AT ALL TIMES.
- 13. INSPECTION BY OPERATIONS PRIOR TO OPENING FOR AIRCRAFT USE AND THE DEPARTURE OF THE CONTRACTOR'S WORK CREWS, THE FIELD REPRESENTATIVE WILL ARRANGE FOR INSPECTION BY AIRPORT OPERATIONS OF ANY RUNWAY, TAXIWAY SAFETY AREA, OR APRON THAT HAS BEEN CLOSED FOR WORK, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR. THESE AREAS MUST COMPLY WITH THE SAFETY REQUIREMENTS DEFINED BY FEDERAL AVIATION REGULATIONS PART 139 AND INSPECTED BY THE DESIGNATED OPERATION'S INSPECTOR BEFORE PERMISSION FOR THE CONTRACTOR'S WORK CREWS TO DEPART WILL BE GRANTED.
- 14. NO SMOKING SHALL BE ALLOWED WITHIN THE AOA.
- 15. DESIGNATED AIRPORT REPRESENTATIVE SHALL HAVE THE AUTHORITY TO DISCONTINUE CONSTRUCTION OPERATIONS AT ANY TIME, FOR ANY REASON. THE AIRPORT REPRESENTATIVE CAN REQUIRE THE CONTRACTOR TO LEAVE THE AIRSIDE AOA AND/OR AIRPORT PROPERTY AND EVACUATE THE WORK AREA WITHIN THIRTY (30) MINUTES AFTER RECEIVING NOTICE.
- 16. ALL BARRICADE LIGHTING, TEMPORARY SIGNAGE AND COVERS SHALL BE VERIFIED BY THE CONTRACTOR FOR PROPER OPERATION AT THE END OF EACH DAY BEFORE THE CONTRACTOR CEASES OPERATION. THE INTENSITY OF THE LIGHTS AND THE SPACING FOR BARRICADES, SHALL BE ADEQUATE TO DELINEATE THE HAZARDOUS AREA WITHOUT AMBIGUITY. NO MORE THAN 10% OF THE LIGHTS FOR BARRICADES SHALL BE INOPERABLE AT ANY TIME, AND AT NO TIME SHALL TWO (2) CONSECUTIVE LIGHTS BE INOPERABLE. THE CONTRACTOR SHALL IMMEDIATELY REPLACE ANY BARRICADES, LIGHTS OR FLAGS WHICH IN THE OPINION OF THE FIELD REPRESENTATIVE OR AIRPORT OPERATIONS ARE NOT ADEQUATE.
- 17. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN VEHICLES, EQUIPMENT AND MATERIALS OUTSIDE THE AIRCRAFT CONTAINMENT LINE DURING CONSTRUCTION. THE CONTRACTOR MAY BE REQUIRED TO WORK 24 HOURS EACH DAY IN DESIGNATED AREAS IN ORDER TO MINIMIZE THE SHUT DOWN TIME. NO ADDITIONAL CONTRACT COST SHALL BE ALLOWED FOR WORK TO BE ACCOMPLISHED "AROUND THE CLOCK" (24 HOURS PER DAY).
- 18. ALL MARKINGS WITHIN THE CONSTRUCTION AREA IN CONFLICT WITH THE SAFETY PLANS SHALL BE REMOVED & REPLACED AS REQUIRED AND IN ACCORDANCE WITH P-620 OF THE PROJECT MANUAL.
- 19. ALL EQUIPMENT, MATERIAL AND CONSTRUCTION PERSONNEL SHALL BE KEPT AT LEAST 250' FROM CENTERLINE OF ACTIVE RUNWAY, 65.5' FROM AN ACTIVE TAXIWAY AT ALL TIMES.
- 20. CONTRACTOR IS REQUIRED TO MONITOR RADIO COMMUNICATIONS AT ALL TIMES. GROUND CONTROL FREQUENCY: 121.65 AND CTAF 118.95.
- 21. EQUIPMENT OR MATERIALS SHALL NOT EXCEED A HEIGHT OF 35 FT WITHOUT PRIOR APPROVAL FROM ENGINEER.
- 22. CONTRACTOR SHALL MAINTAIN CONSTANT CONTACT WITH ATCT BEFORE AND DURING ANY OPERATIONS IN THE AOA.
- 23. CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM OBJECT FREE AREAS DURING HOURS OF AIRCRAFT OPERATIONS.
- 24. THE FINAL LIFT OF ASPHALT SHALL BE CONSTRUCTED DURING DAYLIGHT HOURS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 25. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND DESIGNATED AIRPORT REPRESENTATIVES FOR THE ISSUANCE OF NOTAMS BEFORE CONSTRUCTION BEGINS; HEIGHT RESTRICTIONS IN ANY AREAS OF CONSTRUCTION THAT WILL NECESSITATE THE CLOSURE OF A RUNWAY OR TAXIWAY WILL REQUIRE THAT WORK BE PERFORMED DURING NIGHTTIME ONLY (10:00PM-7:00AM). PRIOR TO THE END OF THE WORK SHIFT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS AND STOCK PILES FROM THE CONSTRUCTION AREA, AND SHALL SWEEP THE AREA FOR ALL LOOSE PARTICLES THAT MAY BE INGESTED BY JET ENGINES.

SECURITY NOTES (ACTIVE AIRFIELD):

- 1. GENERAL THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED IN THE CONTRACT MANUAL. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE FIELD REPRESENTATIVE, THE NAME OF THE "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
- 2. CONSTRUCTION SECURITY COMMITTEE A COMMITTEE SHALL BE ESTABLISHED CONCURRENT WITH THE LIFE OF THIS CONTRACT TO MONITOR AND COORDINATE SECURITY PROVISIONS, ADOPT NEW SECURITY PROVISIONS IF REQUIRED AND REVIEW AND APPROVE ALL MATTERS OF AIRPORT SECURITY RELATING TO THIS CONTRACT. MEETINGS SHALL BE SCHEDULED BY THE FIELD REPRESENTATIVE. COMMITTEE MEMBERSHIP SHALL INCLUDE THE CONTRACTOR SECURITY OFFICER. FIELD REPRESENTATIVE AND AIRPORT OPERATIONS.
- 3. CONTRACTOR PERSONNEL SECURITY ORIENTATION THE CONTRACTOR SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY THE CONSTRUCTION SECURITY COMMITTEE. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
- 4. ACCESS TO THE SITE CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG ANY ACCESS ROAD AS A RESULT OF THE CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL NOT BE PERMITTED.
- 5. MATERIALS DELIVERY TO THE SITE ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE WILL USE THE ACCESS POINT AT THE CONTRACTOR'S STAGING AREA AS A DELIVERY ADDRESS AT THE AIRPORT. ALL ASSOCIATED COSTS SHALL BE INCIDENTAL TO VARIOUS OTHER BID ITEMS.
- 6. CONSTRUCTION AREA LIMITS THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE FENCING, SIGNAGE AND WARNING DEVICES VISIBLE FOR BOTH DAY/NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.
- 7. VEHICLE IDENTIFICATION THE CONTRACTOR, THROUGH THE CONTRACTOR SECURITY OFFICER, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUBCONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. THE CONTRACTOR SECURITY OFFICER WILL REQUIRE EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN (WITH NOT LESS THAN 6" LETTERING) ON BOTH SIDES OF THE VEHICLE. THE CONTRACTOR SHALL PROVIDE A CURRENT LISTING OF VEHICLES AND COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRPORT TO THE FIELD REPRESENTATIVE. CONTRACTOR'S EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S STAGING AREA OR CONTRACTOR'S EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.
- 8. OPERATORS OF VEHICLES MUST POSSESS A VALID DRIVER'S LICENSE, FOR THE VEHICLE BEING OPERATED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EMPLOYEES DRIVING WITHIN THE AOA, AND SHALL LIMIT EMPLOYEE ACCESS TO RUNWAY AND TAXIWAY OBJECT FREE AREAS TO THOSE WHOSE FUNCTIONS ARE ABSOLUTELY NECESSARY. DRIVERS SHALL MONITOR NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT GROUND CONTROL FREQUENCY AT ALL TIMES WHEN DRIVING WITHIN ANY RUNWAY OR TAXIWAY OBJECT FREE AREA, AND SHALL BE PREPARED TO LEAVE THE AREA IMMEDIATELY IF NECESSARY.
- 9. ALL ACCESS GATES SHALL REMAIN LOCKED OR MONITORED AT ALL TIMES. THE COST OF PROVIDING FLAGGER AND SECURITY GUARDS, IF NEEDED, SHALL BE INCIDENTAL AND INCLUDED IN THE VARIOUS CONTRACT ITEMS.

GENERAL NOTE:

1. ALL SAFETY AND SECURITY NOTES AND CONSTRUCTION SAFETY AND PHASING PLAN NOTES SHALL APPLY TO ALL VOLUMES OF THE BID DOCUMENTS.





CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

SAFETY AND ECURITY NOTES

LONG-TERM AND
APLOYEE PARKING
EXPANSION

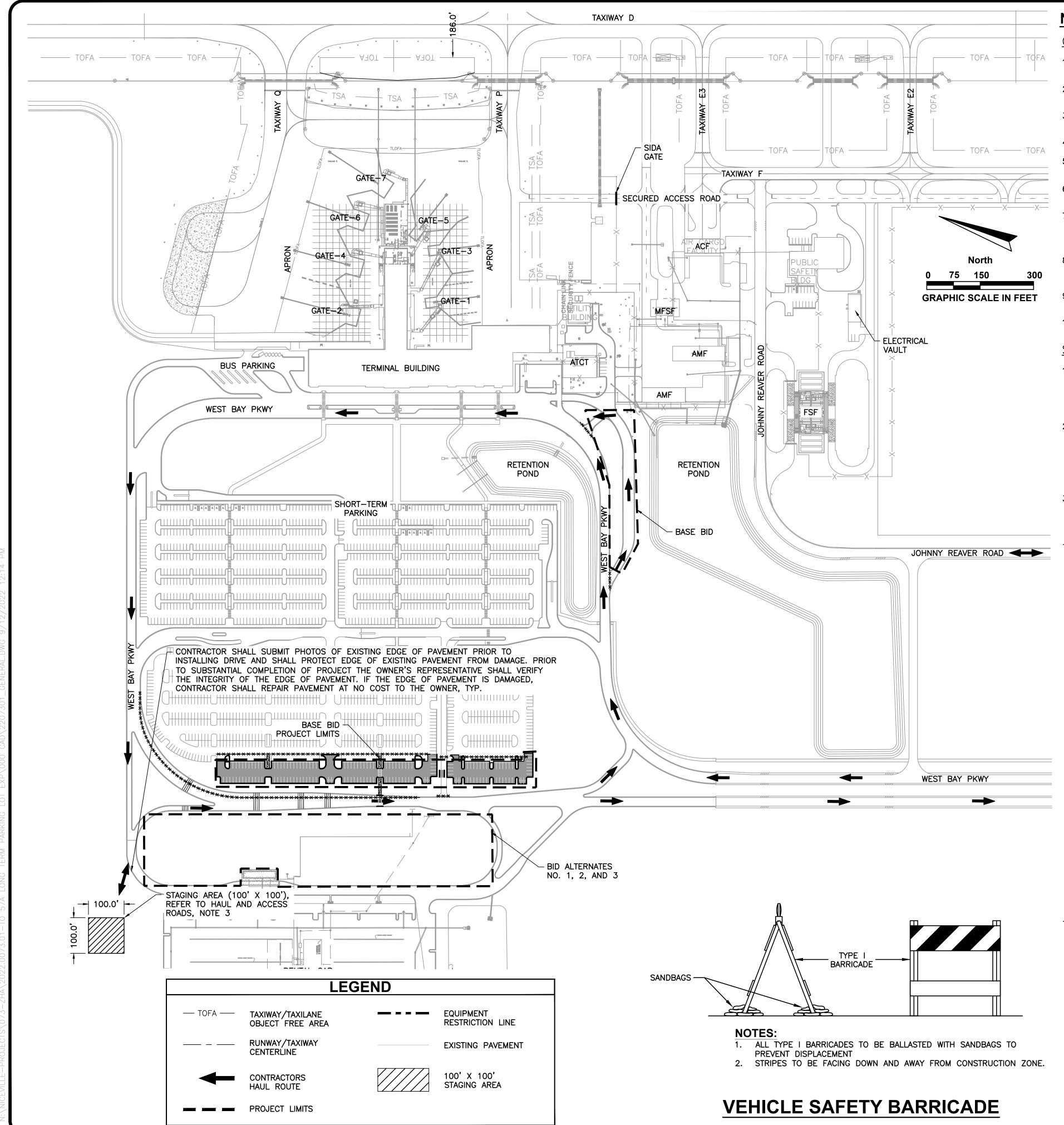
DESIGNED BY: C.A.P.
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01

SEPT 9, 2022

SHEET NUMBER

DATE:

G-4



NOTES:

GENERAL:

- CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL REMAIN 56.8' FEET OR GREATER FROM TAXIWAY F CENTERLINE (EXTENDED) AT ALL TIMES.
- 2. CONTRACTOR SHALL YIELD TO AIRCRAFT AT ALL TIMES. CONTRACTOR SHALL YIELD RIGHT-OF-WAY IN AREAS LEASED BY OTHERS AT ALL TIMES.
- 3. EQUIPMENT HEIGHT SHALL NOT EXCEED 35 FEET ABOVE GROUND LEVEL UNLESS SPECIFICALLY REQUESTED BY CONTRACTOR AND APPROVED BY THE AIRPORT.
- 4. RESTRICTIONS INDICATED ON THIS SHEET SHALL APPLY AT ALL TIMES.
- BARRICADE PLACEMENT (SHEET G-6) TO BE COORDINATED WITH OWNER'S FIELD REPRESENTATIVE, 2 FEET FROM THE EDGE OF ALL EXISTING AFFECTED PAVEMENTS, UNLESS OTHERWISE SHOWN. BARRICADES SHALL BE CONTINUOUS (NO SPACES).
- BARRICADE SECTIONS SHALL BE WHITE WITH ORANGE REFLECTIVE MEDIA. ALL INCIDENTAL CONNECTORS. SPACERS, SPLICE PLATES, ETC. SHALL BE PAINTED WHITE
- ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED WHEN DEEMED APPROPRIATE BY THE ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY.
- ALL BARRICADES SHALL BE MOVED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP THE DEBRIS WHICH HAS ACCUMULATED AND REMOVE FROM THE SITE. THE BARRICADES SHALL THEN BE REPLACED AT THE APPROPRIATE
- THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND REMOVE BARRICADES. BARRICADES SHALL BE CHECKED DAILY FOR PROPER PLACEMENT.
- 10. REFER TO SHEET G-4 FOR ADDITIONAL INFORMATION ON SAFETY AND SECURITY

STAGING/STORAGE AREAS:

- 1. THE EXACT LIMITS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCIES. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE PROPER AND SANITARY TOILET FACILITIES FOR HIS/HER EMPLOYEES.
- 2. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL RESTORE ALL GRASSED, GRAVELED AND PAVED AREAS USED FOR STAGING AND STORAGE TO A CLEAN AND NEAT CONDITION ACCEPTABLE TO THE OWNER. THE TERRAIN SHALL BE LEFT IN A SMOOTH, WELL GROOMED, AND GRADED-TO-DRAIN CONDITION INCLUDING THE REFILLING OF ANY RUTS, HOLES, OR OTHER DEPRESSIONS OR THE LEVELING OF BERMS OR OTHER SIMILAR EMBANKMENTS AS MAY BE APPLICABLE. UPON ACCEPTANCE OF THE RESTORED STAGING OR STORAGE AREAS, THE CONTRACTOR SHALL SOD THESE AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE FOR THE CONSTRUCTION, MAINTENANCE, RESTORATION, REPAIR, AND SODDING OF STAGING AND STORAGE AREAS.
- 3. CONTRACTOR SHALL USE NON-GRAVEL STABILIZATION, TO MINIMIZE FOREIGN OBJECT DEBRIS (FOD) DURING CONSTRUCTION ACTIVITIES AND PREVENT ALL OFFSITE SEDIMENT TRACKING. CONTRACTOR SHALL INSTALL TYPE "III" SILT FENCE 5' OUTSIDE THE PERIMETER OF THE STAGING AREA. SEE SHEET C-XX FOR SILT FENCE DETAIL.

HAUL AND ACCESS ROADS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING HAUL AND ACCESS ROADS WITHIN THE LIMITS OF CONSTRUCTION, STAGING AREAS, AND BETWEEN CONSTRUCTION AREAS, AND FOR THE DUST CONTROL OF THESE ROADS. ALL COSTS ASSOCIATED WITH CONSTRUCTING AND MAINTAINING HAUL ROADS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE PROJECT AND SHALL NOT BE PAID FOR SEPARATELY.
- 2. ANY ADDITIONAL HAUL OR ACCESS ROADS REQUESTED BY THE CONTRACTOR FOR HIS OPERATIONS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE CONSTRUCTED BY THE CONTRACTOR AT LOCATIONS WHERE AND IF APPROVED BY THE ENGINEER AT NO ADDITIONAL COMPENSATION.
- 3. THE ENGINEER RESERVES THE RIGHT TO SHIFT THE LOCATION OF CONTRACTOR HAUL AND ACCESS ROUTES AS MAY BE DEEMED NECESSARY FOR THE ORDERLY PROGRESS OF THE OVERALL AIRPORT DEVELOPMENT PROJECT AT NO ADDITIONAL COMPENSATION.
- 4. PRIOR TO BEGINNING THE WORK, THE CONDITION OF APPLICABLE ROADWAYS SHALL BE JOINTLY INSPECTED AND AGREED UPON BY THE CONTRACTOR AND ENGINEER. ANY DAMAGE TO EXISTING ROADWAYS USED AS A HAUL OR ACCESS ROUTE SHALL BE CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR AND HE OR SHE SHALL PROMPTLY REPAIR ANY DAMAGED ROADWAYS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER WITH NO ADDITIONAL COMPENSATION.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL RESTORE ALL GRASSED, GRAVELED AND PAVED AREAS USED FOR HAUL ROADS TO A CLEAN AND NEAT CONDITION ACCEPTABLE TO THE OWNER. THE TERRAIN SHALL BE LEFT IN A SMOOTH, WELL GROOMED, AND GRADED-TO-DRAIN CONDITION INCLUDING THE REFILLING OF ANY HOLES OR DEPRESSIONS OR THE LEVELING OF ANY RUTS AS MAY BE APPLICABLE. THE REFILLED MATERIAL SHALL BE SUITABLE TO THE AREA BEING RESTORED (GRAVEL IF AN EXISTING GRAVEL ROAD IS BEING RESTORED, SOIL IF A TURF AREA IS BEING RESTORED, ETC.) UPON ACCEPTANCE OF A HAUL ROAD RESTORED WITHIN A PREEXISTING TURF AREA, THE CONTRACTOR SHALL SOD THESE AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE FOR THE CONSTRUCTION, MAINTENANCE, RESTORATION, REPAIR, GRAVELING, SODDING OF HAUL ROADS.
- WORK BY OTHERS: ADDITIONAL CONTRACTORS MAY BE WORKING WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT CLOSE COORDINATION OF WORK BETWEEN THE CONTRACTOR AND OTHER WORK IN THE AREA WILL BE REQUIRED. THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER IN COORDINATING SCHEDULES IN ORDER TO MINIMIZE CONFLICTS AND COMPLETE THE PROJECTS IN A TIMELY MANNER. THE CONTRACTOR SHALL COORDINATE HIS WORK SO AS NOT TO DISRUPT OR INTERFERE WITH WORK BEING ACCOMPLISHED BY OTHER CONTRACTORS. THE ENGINEER RESERVES THE RIGHT TO ADJUST PROJECT LIMITS AS MAY BE DEEMED NECESSARY TO ACCOMMODATE ADJACENT WORK BY OTHERS. ANY SUCH NECESSARY ADJUSTMENT WHICH IMPACTS THE SCHEDULE OF THE CONTRACTOR MAY BE THE BASIS FOR A REQUEST FOR EXTRA TIME. HOWEVER, IT SHALL NOT BE THE BASIS FOR A CLAIM FOR EXTRA COSTS.

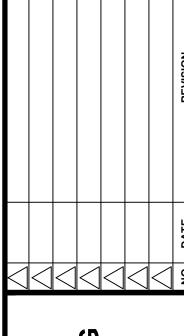
PHASING/BID ALTERNATES:

- 1. BASE BID CONSISTS OF ALL WORK DEPICTED IN VOLUME 1 (LONG-TERM AND EMPLOYEE PARKING EXPANSION) AND VOLUME II (CELL LOT PARKING EXPANSION), INCLUDING DEMOLITION, EARTHWORK, GRADING AND DRAINAGE, PAVEMENT, CURBING, SIDEWALK, PAVEMENT MARKINGS, SOD, SITE LIGHTING, AND OTHER NECESSARY WORK.
- 2. ADDITIVE ALTERNATE NO. 1 CONSISTS OF ALL WORK DEPICTED IN VOLUME III (NWFBIA OVERFLOW PARKING) AND VOLUME IV (OVERFLOW PARKING LIGHTING AND ACCESS CONTROL), INCLUDING DEMOLITION, EARTHWORK, GRADING AND DRAINAGE, PAVÈMENT, CURBING, SIDEWALK, PAVEMENT MARKINGS, SOD, ELECTRICAL, LIGHTING, REVENUE CONTROL, COMMUNICATION, AND OTHER NECESSARY WORK.
- 3. ADDITIVE ALTERNATE NO. 2 CONSISTS OF SOME OF THE WORK DEPICTED IN VOLUME III (NWFBIA OVERFLOW PARKING). INCLUDING FILLING THE DITCH SOUTH OF WEST BAY PARKWAY. THIS INCLUDES, BUT IS NOT LIMITED TO, DEMOLITION EARTHWORK, GRADING AND DRAINAGE, SOD, AND OTHER NECESSARY WORK. SEE "OVERFLOW LOT SUPPLEMENTARY GRADING PLAN" SHEET (NOTE - THE PARKING LOT ENTRANCE SHOWN WILL NOT BE CONSTRUCTED IN ADD. ALT. NO. 2).
- ADDITIVE ALTERNATE NO. 3 CONSISTS OF THE WORK DEPICTED IN VOLUME III RELATED TO THE ENTRANCE TO THE OVERFLOW LOT (NWFBIA OVERFLOW PARKING) AND ALL OF THE WORK DEPICTED IN VOLUME IV (OVERFLOW PARKING LIGHTING AND ACCESS CONTROL). THIS INCLUDES, BUT IS NOT LIMITED TO, DEMOLITION, EARTHWORK, GRADING AND DRAINAGE, PAVEMENT, CURBING, SIDEWALK, PAVEMENT MARKINGS, SOD, ACCESS CONTROL, ALL SITE LIGHTING AND OTHER NECESSARY WORK. SEE "OVERFLOW LOT SUPPLEMENTARY GRADING PLAN" SHEET (NOTE - THE DUAL 36" PIPE RUN AND DITCH GRADING SHOWN WILL NOT BE CONSTRUCTED IN ADD. ALT. NO. 2).

DRAFT - NOT FOR CONSTRUCTION



CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF **AUTHORIZATION NO. 5057**



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LONG-TERM AND EMPLOYEE PARKING EXPANSION

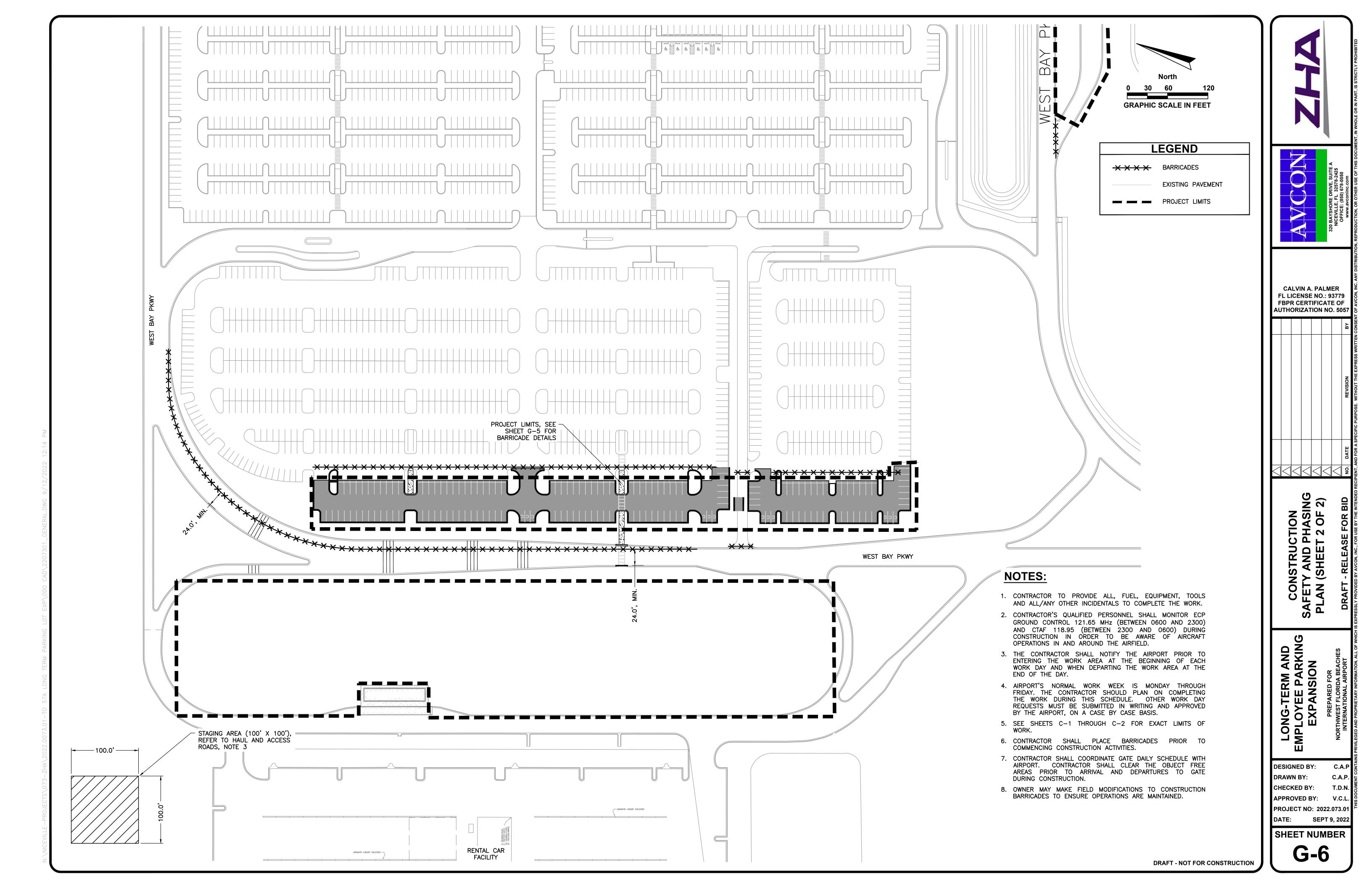
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C.A.P

DESIGNED BY: T.D.N. CHECKED BY: APPROVED BY: PROJECT NO: 2022.073.01 SEPT 9, 2022

SHEET NUMBER

G-5

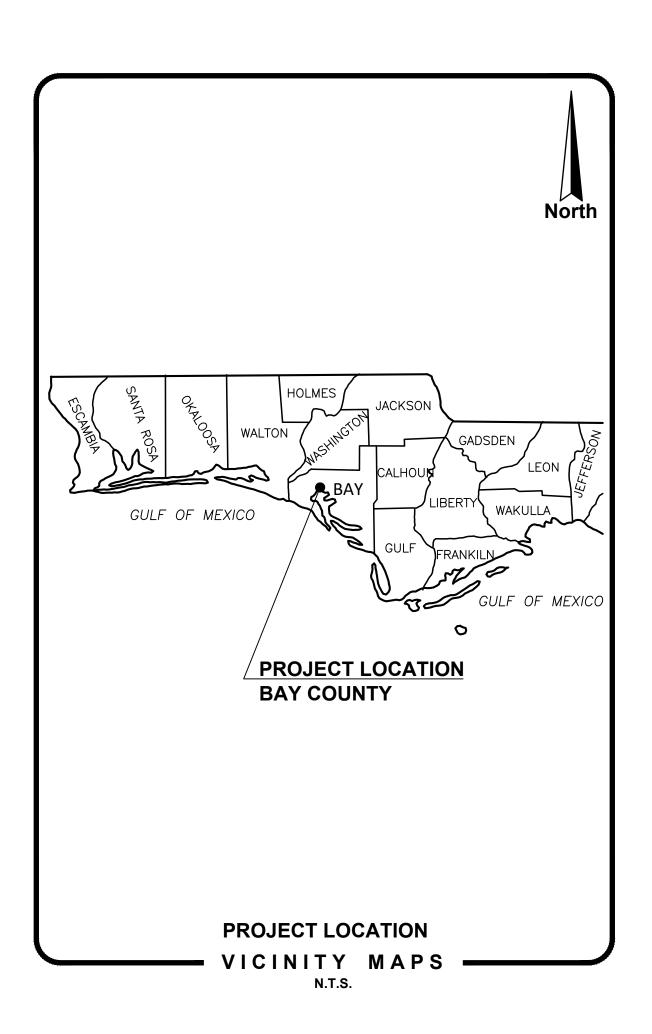


VOLUME I

LONG-TERM AND EMPLOYEE PARKING EXPANSION

NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT (ECP)

PANAMA CITY, FLORIDA





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CLIENT:



NORTHWEST FLORIDA BEACHES
INTERNATIONAL AIRPORT

6300 WEST BAY PARKWAY, SUITE A PANAMA CITY, FLORIDA 32405 TELEPHONE: (850) 636-8965

EXECUTIVE DIRECTOR:
PARKER W. McCLELLAN, JR. A.A.E.

AIRPORT AUTHORITY BOARD OF DIRECTORS

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MAYOR MARK SHELDON, VICE CHAIR
GLEN MCDONALD
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BRIAN KELLENBERGER

ENGINEER:



ZHA INTERNATIONAL 601 N. MAGNOLIA AVE, SUITE 100 ORLANDO, FLORIDA 32801 TELEPHONE: (407) 422-7487



AVCON, INC.

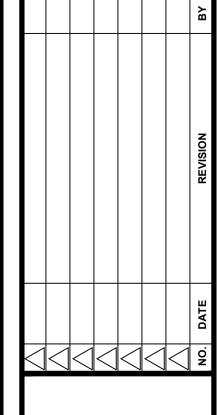
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A NICEVILLE, FL 32578-2425
OFFICE: (850) 678-0050
CORPORATE CERTIFICATE OF
AUTHORIZATION NUMBER: 5057
www.avconinc.com

DRAFT - RELEASE FOR BID





CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF UTHORIZATION NO. 5057



COVER SHEEL

PLOYEE PARKING EXPANSION

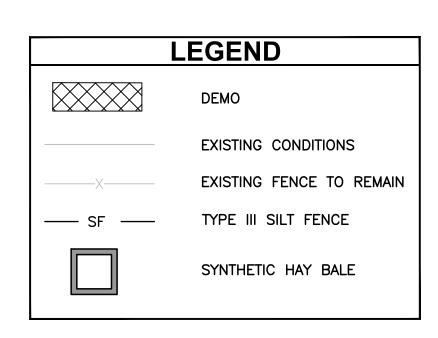
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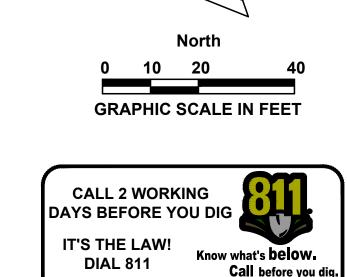
DESIGNED BY: C.A.P
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01
DATE: SEPT 9, 2022

SHEET NUMBER

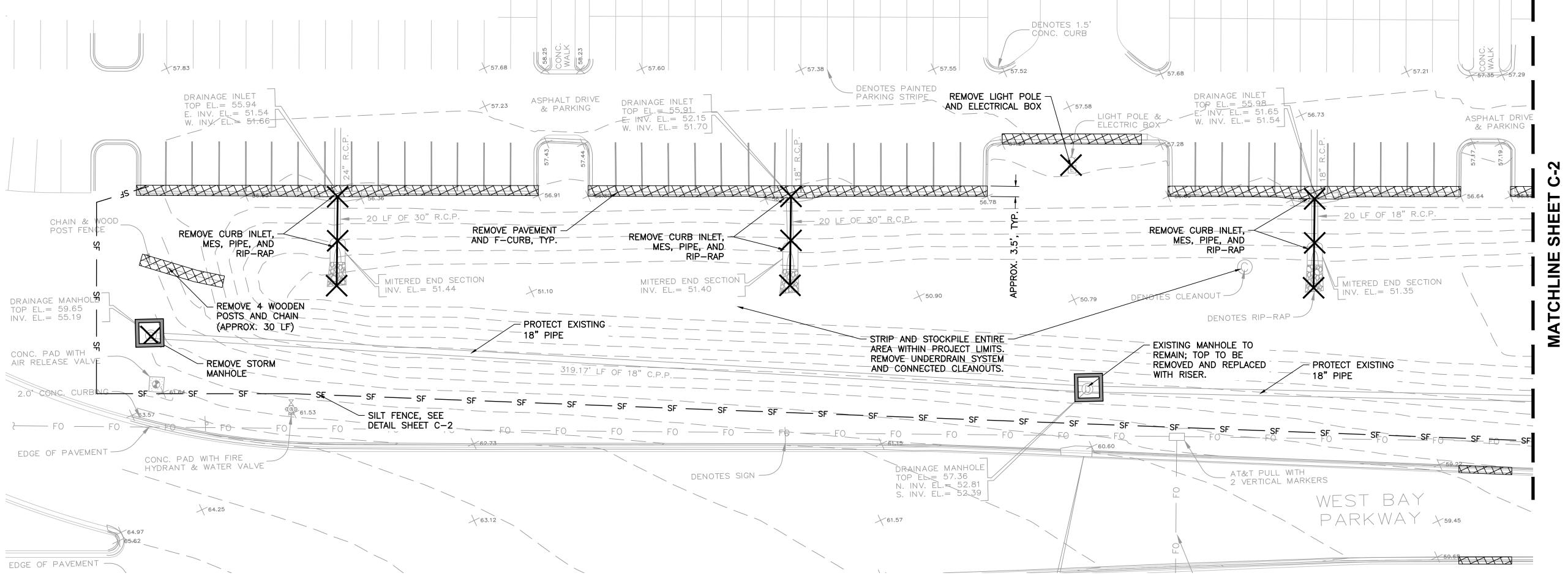
G-1

THE CONTRACTOR SHALL COORDINATE UTILITY LOCATES WITH AIRPORT 2 WEEKS PRIOR TO DIGGING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS. PRIOR TO ANY EXCAVATION OR DEMOLITION, THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE (RETURN RECEIPT REQUESTED) TO EACH OF THE UTILITY COMPANIES AFFECTED BY THE PROJECT, ALONG WITH THE VARIOUS DEPARTMENTS OF FLORIDA SUNSHINE ONE CALL AS PRESCRIBED BY STATE LAW. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE OWNER'S REP WITH A COPY OF THE RECEIPT OF SAID WRITTEN NOTIFICATION TO EACH OF THE UTILITY COMPANIES OR BAY COUNTY DEPARTMENTS. THIS REQUIREMENT IS IN ADDITION TO ANY OTHER STATE LAWS REGARDING PUBLIC NOTIFICATION PRIOR TO EXCAVATION.





SUNSHINE STATE ONE CALL OF FLORIDA, INC.



SURVEYOR'S REPORT:

THIS IS A TOPOGRAPHIC SURVEY WITH THE LOCATION OF ABOVE GROUND FIXED IMPROVEMENTS IN THE IMMEDIATE VICINITY OF THE AREA DESCRIBED BY CLIENT ONLY. UNDERGROUND UTILITIES SHOWN HEREON WERE SURFACE MARKED. NO ATTEMPT WAS MADE TO VERIFY THE ACTUAL LOCATION UNDERGROUND. NO ATTEMPT WAS MADE TO INVESTIGATE THE LOCATION OF FOUNDATIONS OR OTHER IMPROVEMENTS, IF ANY EXIST.

THE BEARING OF NORTH 19°52'58" WEST ALONG THE SURVEY BASE LINE AND THE COORDINATES ARE REFERENCED TO GEODETIC NORTH BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 1983/99, U.S. SURVEY FEET. DATUM ESTABLISHED USING FLORIDA PERMANENT REFERENCE NETWORK.

VERTICAL INFORMATION SHOWN HEREON IS REFERENCED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION CONTROL, BEING A CONCRETE MONUMENT STAMPED "46-93-GPS5" HAVING A PUBLISHED ELEVATION OF 31.3715 NAVD 88 DATUM.

SCR & ASSOCIATES HAS MADE NO ATTEMPT TO HAVE UNDERGROUND UTILITIES MARKED BY UTILITY COMPANIES. THERE MAY BE ADDITIONAL UNDERGROUND UTILITIES THAT WERE NOT MARKED, THAT SCR & ASSOCIATES WILL NOT BE RESPONSIBLE FOR SHOULD DAMAGE OCCUR WHILE DIGGING IS GOING ON. IT MAY BE BENEFICIAL TO CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770, BEFORE ANY DIGGING BEGINS.

PIPE SIZES AND TYPES AS SHOWN HEREON, ARE SHOWN ACCORDING TO INFORMATION/DATA AS OBSERVED IN SANITARY SEWER STRUCTURES AND DRAINAGE STRUCTURES AND WERE NOT FIELD EXCAVATED/UNCOVERED FOR VERIFICATION.

THE SURVEY MAP(S) AND REPORT ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER WHO PREPARED IT. ADDITIONS OR DELETIONS TO SURVEY MAP(S) OR REPORT BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.

FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.

THE FORMATTED CERTIFICATION IS FOR:
NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT, ZHA, INC.

GENERAL NOTES:

- 1. ALL SEDIMENT CONTROL MEASURES SHOWN OF THESE PLANS ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE BALANCE OF THE SITE.
- 2. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
- 3. ALL TEMPORARY EARTH BERMS AND DIVERSIONS ARE TO BE MACHINE COMPACTED AND SODDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
- 4. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY, ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE IN PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.
- 6. THE CONSTRUCTION OF SWALES SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
- 7. EXISTING AND PROPOSED INLET OPENINGS IN THE PROJECT SHALL BE COVERED WITH FILTER FABRIC AND SURROUNDED BY TYPE III SILT FENCE ALONG WITH HAY BALES.
- 8. THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF EXPOSED EARTH AT ONE TIME DURING CONSTRUCTION AND UTILIZE WATERING TRUCKS TO WET THE EARTH DURING DRY MONTHS TO MINIMIZE EROSION DUE TO WIND.
- 9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS, AS A MINIMUM, SHALL BE SEEDED AND MULCHED AND COMPACTED EQUIVALENT TO THAT OF NATIVE SURROUNDING EARTH.
- 10. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.
- 11. SEE DETAILS THIS SHEET FOR EROSION CONTROL.
- 12. SAW-CUT CLEAN EDGES AND MATCH EXISTING GRADE FOR ALL DEMOLITION TIE-IN LOCATIONS. APPLY TACK COAT ON ALL EDGES PER FDOT 300. SEE SHEET C-7 FOR DOUBLE SAW CUT ASPHALT DEMOLITION DETAIL.
- 13. STRIPPINGS (6" DEPTH) INTENDED FOR USE AS TOPSOIL PER FDOT 987.
- 14. SAW CUT MIN 2 FOOT BACK OR PER FLEX BUTT JOINT DETAIL, TYPICAL PAVEMENT SECTION AND DETAILS SHEET(S), WHICHEVER IS GREATER. BUTT JOINT REQUIRES TACK AND CLEAN SAW CUT FOR THE FULL LENGTH OF THE TIE-IN.
- 15. CONTRACTOR SHALL PROTECT EXISTING SIGNS TO ENSURE THEY ARE NOT DAMAGED DURING CONSTRUCTION. IF SIGNS ARE DAMAGED THEY SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 16. CONTRACTOR SHALL BE REQUIRED TO CLEAN EXISTING DRAINS AND PIPES. ALL PIPES AND DRAINS SHALL BE FREE FROM DIRT AND DEBRIS PRIOR TO OWNER ACCEPTING THE PROJECT.
- 17. THE DEMOLISHED AOA FENCE IS THE PROPERTY OF THE OWNER AND SHALL BE NEATLY ROLLED AND TIED PRIOR TO TURNING OVER TO THE AIRPORT. LOCATION OF DELIVERY ON PROPERTY TO BE DETERMINED BY THE OWNER.

CALVIN A. PALMER FL LICENSE NO.: 93779 **FBPR CERTIFICATE OF AUTHORIZATION NO. 505**

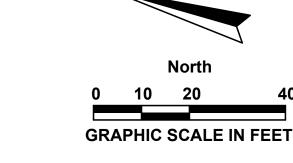
EXISTING CONDITIONS
DEMOLITION & EROSIC
CONTROL PLAN (1 OF

LONG-TERM AND
EMPLOYEE PARKING
EXPANSION
PREPARED FOR

DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01
DATE: SEPT 9, 2022

SHEET NUMBER

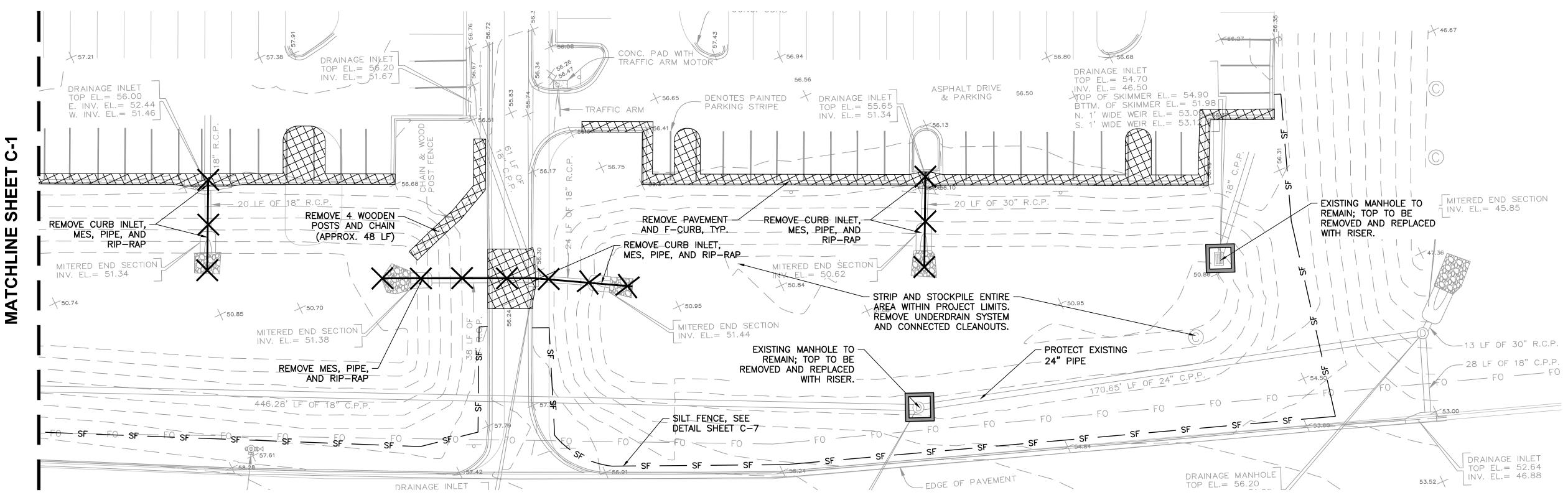
C-1

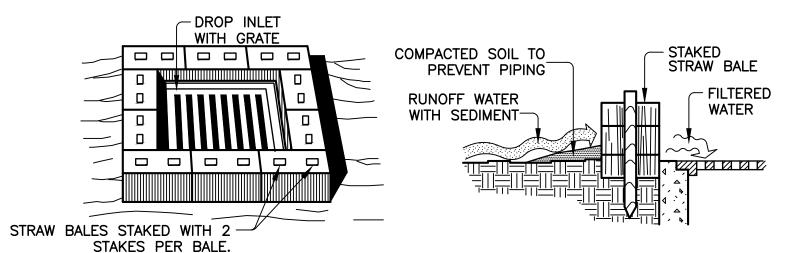


CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! Know what's **below**. **DIAL 811** Call before you di

SUNSHINE STATE ONE CALL OF FLORIDA, INC.





STRAW BALE DROP INLET SEDIMENT FILTER DETAIL

SPECIFIC APPLICATION:

- 1. THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.
- 2. CONTRACTOR SHALL UTILIZE HAY BALES TO PROTECT EXISTING OR PROPOSED INLETS WITHIN THE CONSTRUCTION AREA.

- FILTER CLOTH SILT FENCE NOTE: SILT FENCE TO BE CONSTRUCTED AND MAINTAINED AROUND ALL INLETS; ALSO ACROSS DRAINAGE SUPPORT STAKE COURSE AT EDGE OF SITE AND 3' O.C. — AT 150' INTERVALS. BACK FILL DIRECTION OF FLOW - EXCAVATED TRENCH \Box

TYPE III SILT FENCE DETAIL

N.T.S.

EROSION NOTES:

- 1. EROSION PROTECTION: SOIL EROSION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- 2. SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
- 3. STORMWATER DETENTION AREAS SHALL BE SODDED.
- 4. GRADES AT CURBS ARE AT FLOWLINE.
- 5. SEE SHEETS C-6, C-7, C-8 FOR SILT FENCE LOCATIONS.

GENERAL NOTES:

1. SEE GENERAL NOTES, SURVEYOR NOTES, AND UTILITY NOTE ON SHEET C-1.

CONDITIONS

I & EROSION

LAN (2 OF 2) EXISTING (DEMOLITION CONTROL F C

CALVIN A. PALMER

FL LICENSE NO.: 93779

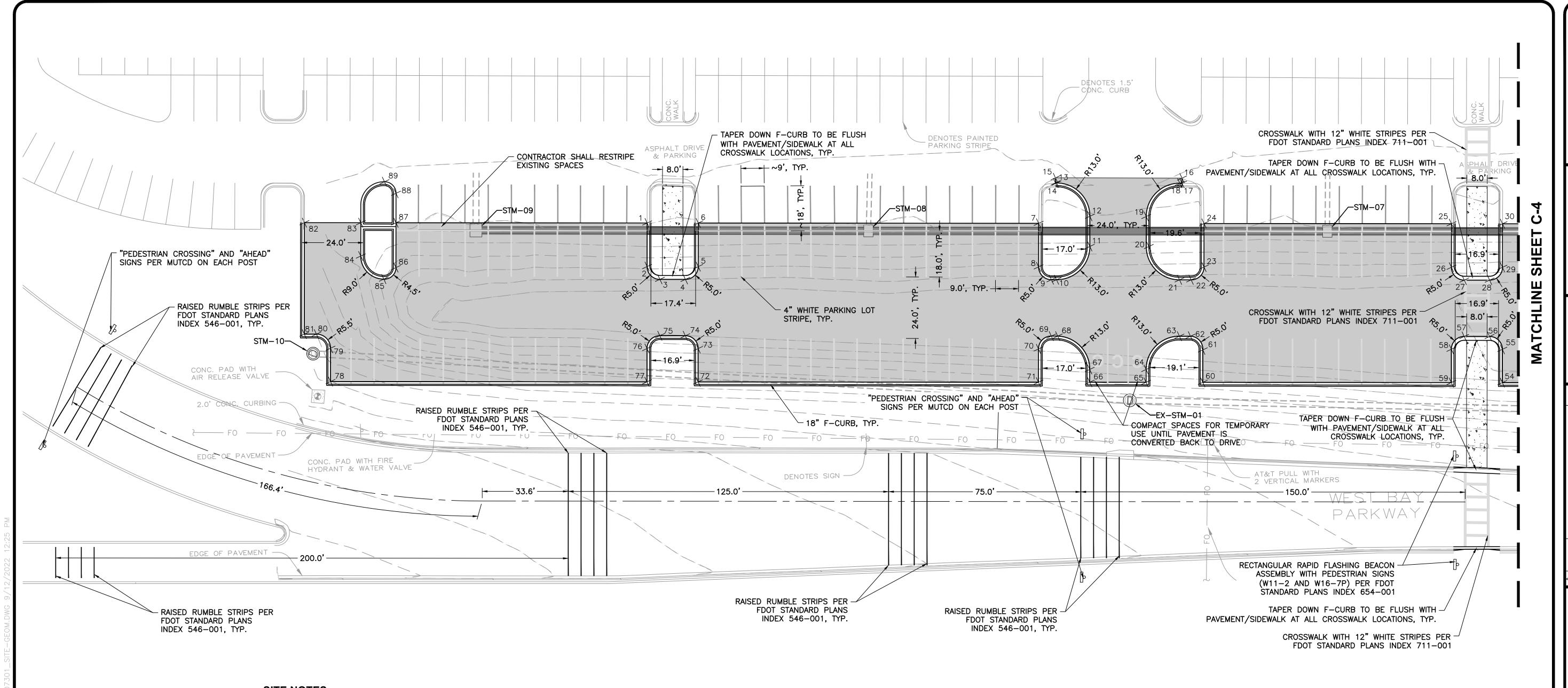
FBPR CERTIFICATE OF

AUTHORIZATION NO. 5057

LONG-TERM AND EMPLOYEE PARKING EXPANSION

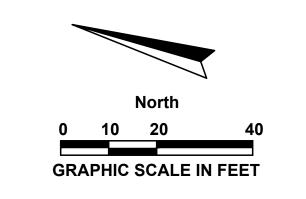
C.A.P **DESIGNED BY:** C.A.P. DRAWN BY: T.D.N. CHECKED BY: APPROVED BY: V.C.L. PROJECT NO: 2022.073.01 DATE: SEPT 9, 2022

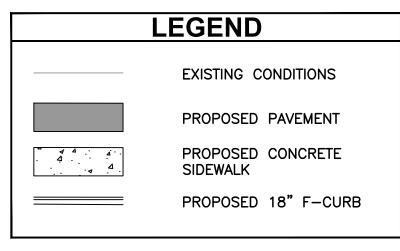
SHEET NUMBER



SITE NOTES:

- 1. SEE SHEET C-4 FOR POINT DETAILS (NORTHINGS AND EASTINGS).
- 2. ALL CURBING SHALL BE 18" F-CURB UNLESS OTHERWISE STATED ON THE SITE PLAN.
- 3. ALL WORK DETAILED IN CONSTRUCTION DRAWINGS SHALL CONFORM TO FDOT STD. PLANS AND SPECIFICATIONS, LATEST EDITION.
- 4. CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS AT ALL TIMES ALONG ALL PUBLIC RIGHT-OF-WAYS.
- 5. ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STD. PLANS INDEX 711.
- 6. ALL SIGNS AND PLACEMENTS OF SIGNS SHALL CONFORM TO FDOT STD. INDEXES 11860 AND 17302.
- 7. REFER TO FDOT STANDARD PLAN INDEXES 102-600 AND 102-602 FOR PLACEMENT OF TRAFFIC CONTROL DEVICES.
- 8. SEE SHEET C-7 FOR SIGN MOUNTING DETAILS.
- 9. ALL DISTURBED AREAS SHALL BE SODDED WITHIN TWO WEEKS AFTER FINAL GRADING IS COMPLETED.
- 10. PAVEMENT SUBGRADE SHALL HAVE ALL UNSUITABLE MATERIALS REMOVED TO A DEPTH OF TWO FEET BELOW TOP OF SUBGRADE, AND 2.5 FEET BEYOND EDGE OF PAVEMENT OR BACK OF CURB. BACKFILL WITH SUITABLE MATERIAL.
- 11. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 160 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- 12. THE BASE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. ALLOWABLE BASE MATERIALS ARE INDICATED ON THE DRAWINGS.
- 13. ALL EXCAVATION AND EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- 14. WHERE DAMAGED OR REQUIRED TO BE CUT BY THE CONTRACTOR'S OPERATIONS, SIDEWALKS AND DRIVEWAYS SHALL BE REPAIRED TO CONFORM TO THE EXISTING TYPE OF CONSTRUCTION IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- 15. PROVIDE CONTRACTION JOINTS AT 10' O.C. AND EXPANSION JOINTS AT 50' O.C. ON ALL EXTERIOR SIDEWALKS AND CURBING.
- 16. ALL PERMANENT PAINT STRIPING WITHIN THE RIGHT-OF-WAY SHALL BE THERMO-PLASTIC REFLECTIVE PAINT, AND BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 17. THERMO-PLASTIC PAINT SHALL BE INCIDENTAL TO THE PARKING LOT PAVEMENT MARKING PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR THERMO-PLASTIC MARKINGS.
- 18. REFER TO SHEET C-7 FOR PARKING STRIPING DETAILS.
- 19. SEE ELECTRICAL SHEETS FOR LIGHTING DETAILS.





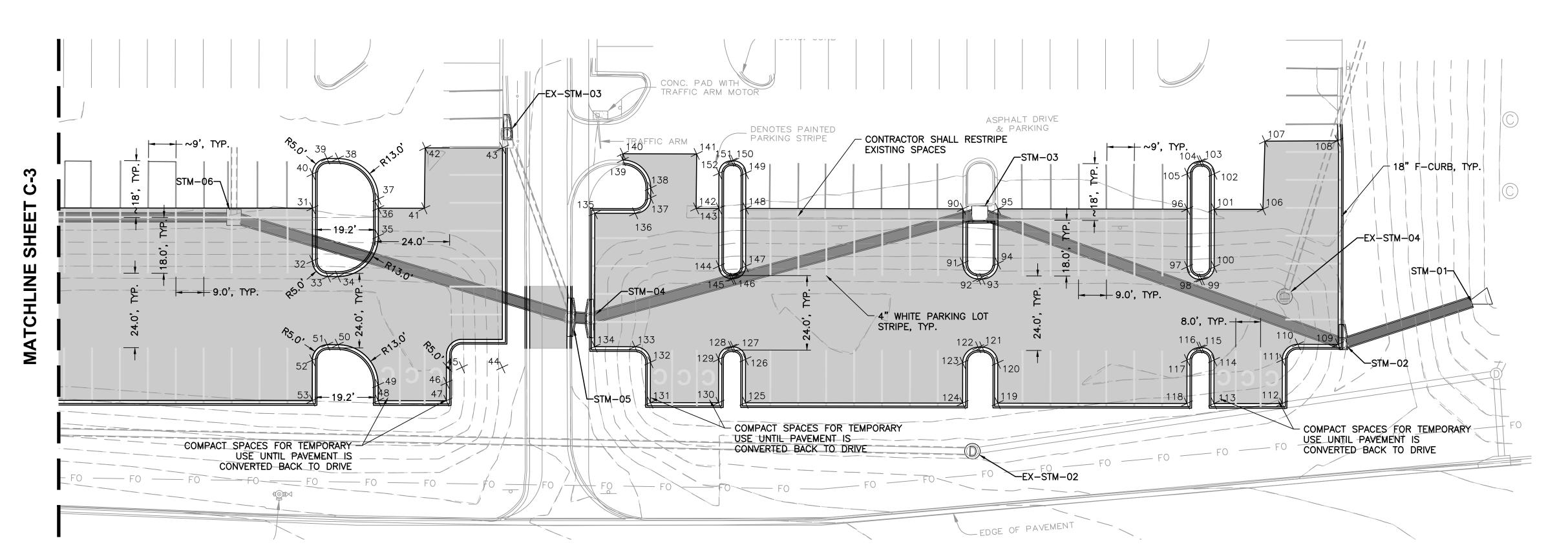
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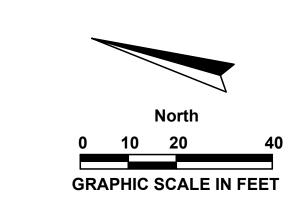
CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF **AUTHORIZATION NO. 5057**

DESIGNED BY:

DRAWN BY: CHECKED BY: T.D.N. APPROVED BY: V.C.L. PROJECT NO: 2022.073.01

DATE: SEPT 9, 2022 SHEET NUMBER





LEGEND

PROPOSED PAVEMENT

PROPOSED CONCRETE
SIDEWALK

PROPOSED 18" F-CURB

SITE NOTES:

1. SEE SHEET C-3 FOR NOTES.

PC	INT TAB	LE
POINT #	NORTHING	EASTING
65	494937.89	1557461.60
1	495142.12	1557453.43
9	494986.30	1557486.58
2	495136.32	1557437.45
3	495129.91	1557434.46
4	495120.56	1557437.85
5	495117.56	1557444.26
6	495123.37	1557460.24
7	494998.50	1557505.55
8	494992.70	1557489.57
10	494984.43	1557487.26
11	494976.65	1557503.91
12	494980.66	1557514.97
13	494997.31	1557522.76
14	494997.73	1557522.61
15	494998.41	1557524.49
16	494951.97	1557541.29
17	494951.28	1557539.39
18	494952.10	1557539.10
19	494959.96	1557522.42
20	494955.03	1557511.76
21	494939.31	1557503.63
22	494935.04	1557505.19
23	494932.04	1557511.59
24	494937.84	1557527.57
25	494847.07	1557560.52
26	494841.27	1557544.54
27	494834.86	1557541.54
28	494825.56	1557544.92
29	494822.57	1557551.32
30	494828.37	1557567.30

POINT TABLE				
POINT #	NORTHING	EASTING		
31	494745.65	1557597.33		
32	494739.85	1557581.35		
33	494733.44	1557578.35		
34	494730.40	1557579.45		
35	494722.62	1557596.11		
36	494725.69	1557604.57		
37	494726.71	1557607.39		
38	494743.37	1557615.17		
39	494746.69	1557613.96		
40	494749.40	1557607.67		
41	494711.75	1557609.63		
42	494718.15	1557628.01		
43	494694.73	1557636.51		
44	494670.61	1557570.07		
45	494682.83	1557565.63		
46	494685.83	1557559.23		
47	494683.86	1557553.79		
48	494704.54	1557546.29		
49	494706.24	1557550.99		
50	494722.90	1557558.77		
51	494726.11	1557557.60		
52	494728.93	1557551.27		
53	494724.49	1557539.05		
54	494807.22	1557509.02		
55	494811.65	1557521.24		
56	494818.06	1557524.24		
57	494827.36	1557520.86		
58	494830.35	1557514.46		
59	494825.92	1557502.24		
60	494917.10	1557469.14		
61	494921.42	1557481.05		

PC	INT TAB	LE
POINT #	NORTHING	EASTING
62	494927.76	1557484.42
63	494931.81	1557482.95
64	494939.59	1557466.30
66	494958.57	1557454.09
67	494960.27	1557458.79
68	494976.46	1557466.74
69	494978.81	1557465.89
70	494981.80	1557459.49
71	494977.37	1557447.27
72	495102.22	1557401.96
73	495106.65	1557414.18
74	495113.06	1557417.17
75	495122.41	1557413.78
76	495125.40	1557407.37
77	495120.97	1557395.15
78	495237.06	1557353.02
79	495241.49	1557365.24
80	495248.54	1557368.53
81	495252.99	1557366.92
82	495267.83	1557407.81
83	495247.15	1557415.31
84	495242.72	1557403.09
85	495231.19	1557397.70
86	495228.27	1557403.55
87	495234.24	1557420.00
88	495238.16	1557430.81
89	495243.93	1557433.50
90	494548.56	1557668.84
91	494542.56	1557652.29
92	494536.15	1557649.29
93	494534.93	1557649.73

PC	DINT TAB	LE
POINT #	NORTHING	EASTING
94	494531.93	1557656.14
95	494537.95	1557672.68
96	494480.57	1557693.46
97	494474.24	1557675.97
98	494469.12	1557673.57
99	494468.44	1557673.82
100	494466.04	1557678.94
101	494472.37	1557696.43
102	494476.27	1557707.18
103	494481.39	1557709.58
104	494482.07	1557709.34
105	494484.47	1557704.21
106	494457.63	1557701.77
107	494464.53	1557722.61
108	494442.59	1557730.74
109	494419.95	1557669.16
110	494432.18	1557664.73
111	494435.17	1557658.33
112	494430.37	1557645.06
113	494451.05	1557637.57
114	494455.82	1557650.73
115	494460.95	1557653.13
116	494461.62	1557652.89
117	494464.02	1557647.76
118	494459.26	1557634.60
119	494516.61	1557613.83
120	494521.04	1557626.05
121	494527.44	1557629.05
122	494528.66	1557628.61
123	494531.66	1557622.20
124	494527.23	1557609.98

P(DINT TAB	LE
POINT #	NORTHING	EASTING
125	494593.05	1557586.14
126	494597.82	1557599.31
127	494602.94	1557601.70
128	494603.56	1557601.48
129	494605.96	1557596.36
130	494601.19	1557583.19
131	494621.88	1557575.70
132	494626.30	1557587.92
133	494632.71	1557590.92
134	494644.93	1557586.50
135	494659.57	1557626.93
136	494647.35	1557631.35
137	494644.35	1557637.76
138	494645.43	1557640.72
139	494656.94	1557646.13
140	494657.62	1557648.03
141	494635.24	1557656.09
142	494629.41	1557639.55
143	494622.51	1557642.05
144	494616.18	1557624.56
145	494611.05	1557622.16
146	494610.43	1557622.39
147	494608.03	1557627.51
148	494614.37	1557645.00
149	494618.23	1557655.67
150	494623.36	1557658.07
151	494623.98	1557657.84
152	494626.37	1557652.72

20 BAYSHORE DRIVE, SUITE A NICEVILLE, FL 32578-2425

CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

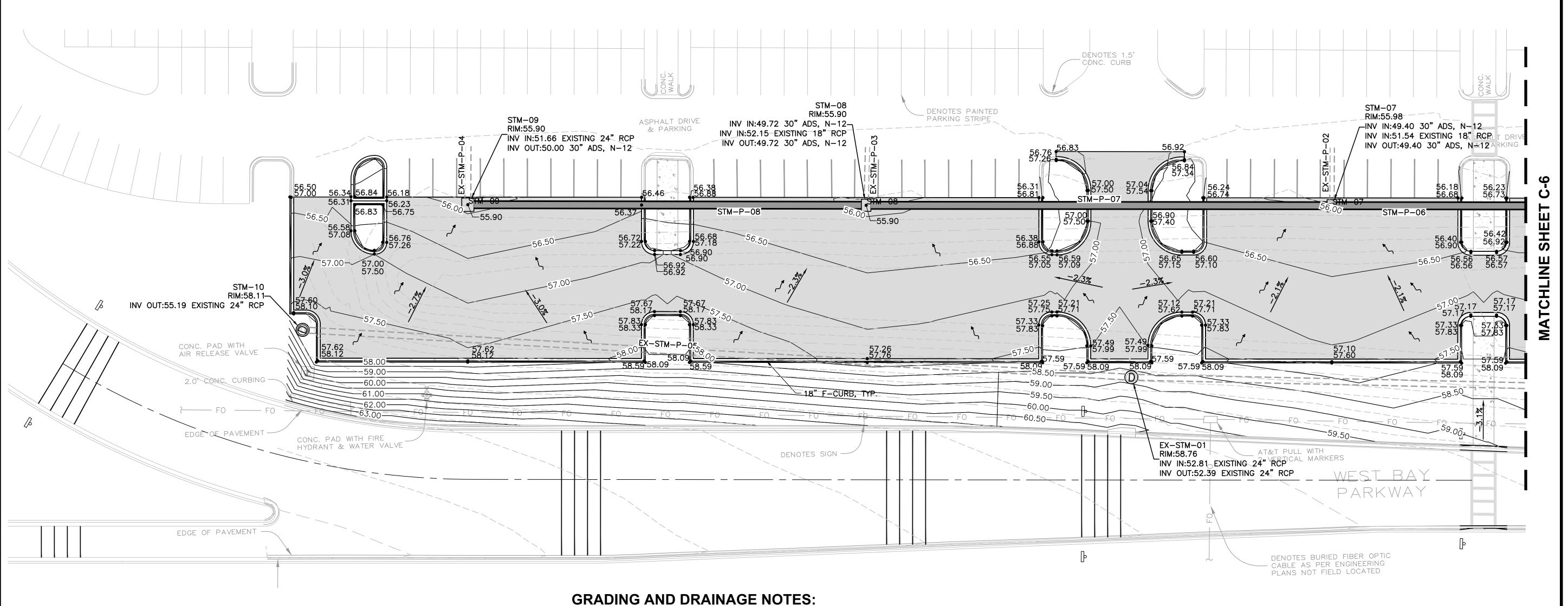
E GEOMETRY PLAN (SHEET 2 OF 2)

LOYEE PARKING
EXPANSION
PREPARED FOR

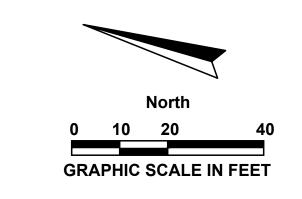
DESIGNED BY: C.A.P.
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01

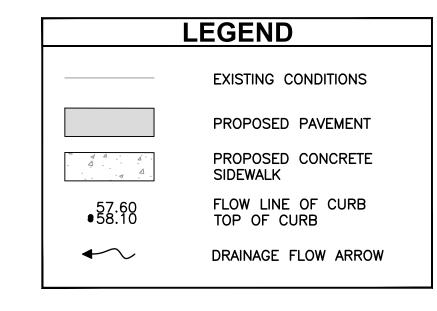
SHEET NUMBER

DATE: SEPT 9, 2022



- 1. SIDE SLOPES OF ALL SWALES AND PONDS SHALL BE NO STEEPER THAN 3:1. (MAX).
- 2. CONTRACTOR SHALL INSTALL SILT FENCE PRIOR TO COMMENCING IN ANY CONSTRUCTION ACTIVITIES AND MAINTAIN SILT FENCE THROUGHOUT CONSTRUCTION.
- 3. CONTRACTOR SHALL NOTIFY THE ENGINEER IF EROSION CONTROL ISSUES DEVELOP ONSITE.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MEASURES ON SITE 24 HOURS A DAY THROUGHOUT CONSTRUCTION.
- 5. CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION THROUGHOUT CONSTRUCTION SEE SHEET C-2 FOR DETAIL.
- 6. ALL DISTURBED AREAS (INCLUDING RE-GRADED AREA) SHALL BE RETURNED TO ORIGINAL CONDITION.
- 7. ALL SUITABLE MATERIAL EXCAVATED SHALL BE USED IN THE FORMATION OF EMBANKMENTS OR PLACED IN STOCKPILES FOR FUTURE USE IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED OF BY THE CONTRACTOR AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 8. UNSUITABLE OR UNSTABLE MATERIALS ENCOUNTERED IN THE SUBGRADE PREPARATION SHALL BE UNDERCUT AND STABILIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALWAYS OBTAIN ENGINEER AUTHORIZATION PRIOR TO BEGINNING ANY UNDERCUT EXCAVATION OPERATIONS. UPON COMPLETION OF THE UNDERCUT AND ACCEPTANCE OF THE RESULTING STABLE SUBGRADE BY THE ENGINEER, THE CONTRACTOR SHALL SURVEY THE BOTTOM OF THE UNDERCUT AREA FOR THE PURPOSES OF ESTABLISHING PAYMENT QUANTITIES.
- 9. EXCAVATION LIKELY TO DISLOCATE, DAMAGE, OR IMPAIR THE STRENGTH OF OTHER STRUCTURES ALREADY IN PLACE SHALL BE DONE ONLY AFTER ADEQUATE PROTECTION HAS BEEN PROVIDED FOR THE IN-PLACE STRUCTURES.
- 10. CONTRACTOR SHALL GRADE ALL AREAS AS INDICATED OR DIRECTED BY OWNER. FILL SHALL BE BROUGHT TO FINISH GRADES AS SHOWN AND SHALL BE GRADED TO DRAIN WATER AWAY FROM STRUCTURES.
- 11. ALL LENGTHS OF PIPES SHOWN ARE SCALED ONLY. DRAINAGE, ENDWALLS, AND PIPES SHALL BE CONSTRUCTED TO CONFORM WITH THE LOW POINTS AND OTHER PERTINENT FEATURES.
- 12. SEE SHEET C-6 FOR STORM PIPE AND STRUCTURE TABLES.
- 13. CONTRACTOR SHALL PROMOTE POSITIVE DRAINAGE TOWARDS INLETS, NO "BIRD BATHS" OR PONDING SHALL BE ACCEPTED.
- 14. UNPAVED AREAS SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE TO THE STORMWATER DETENTION AREA OR ASSOCIATED INLET.
- 15. SEE SHEET C-6 FOR PARKING LOT TYPICAL SECTION DETAIL.
- 16. IN ANY ARE TO BE FILLED WHERE GROUNDWATER IS PRESENT AT EXISTING GRADE, COMPACTION SHOULD BE ACHIEVED VIA NON-VIBRATORY METHODS UNTIL STABILIZED CONDITIONS HAVE BEEN ACHIEVED AT LEAST 12 INCHES ABOVE THE STABILIZED GROUNDWATER TABLE.

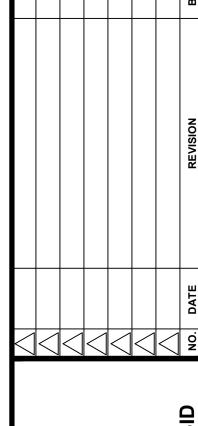




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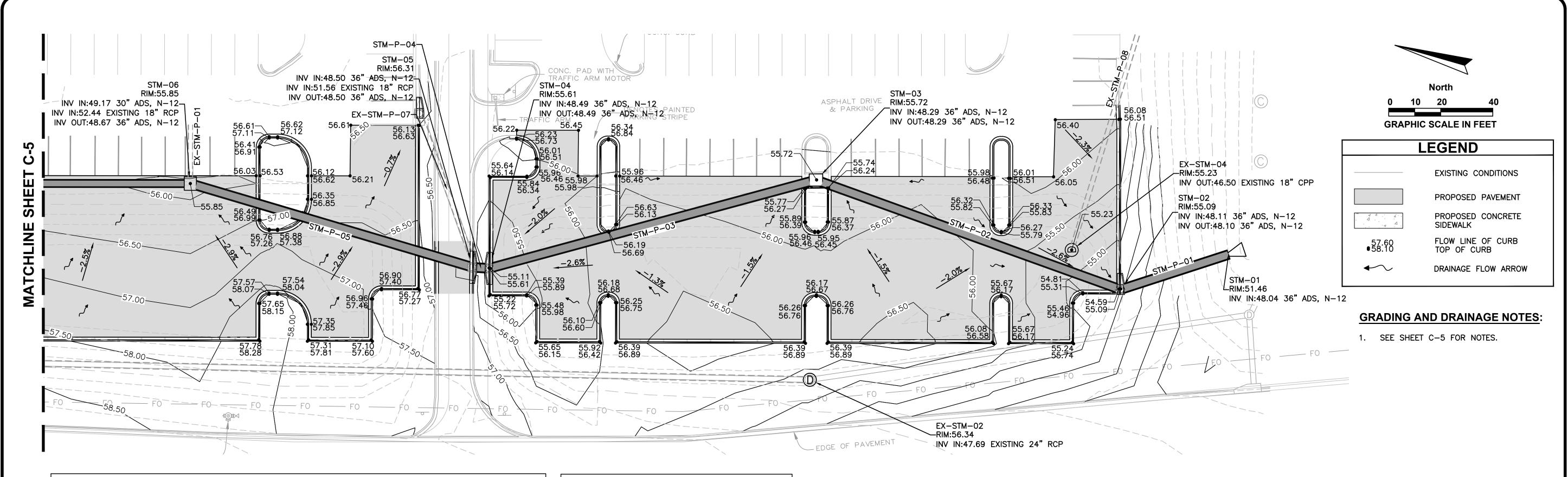
AND PLAN OF 2) GRADING SRAINAGE (SHEET 1 C

LONG-TERM AND EMPLOYEE PARKING EXPANSION

C.A.P

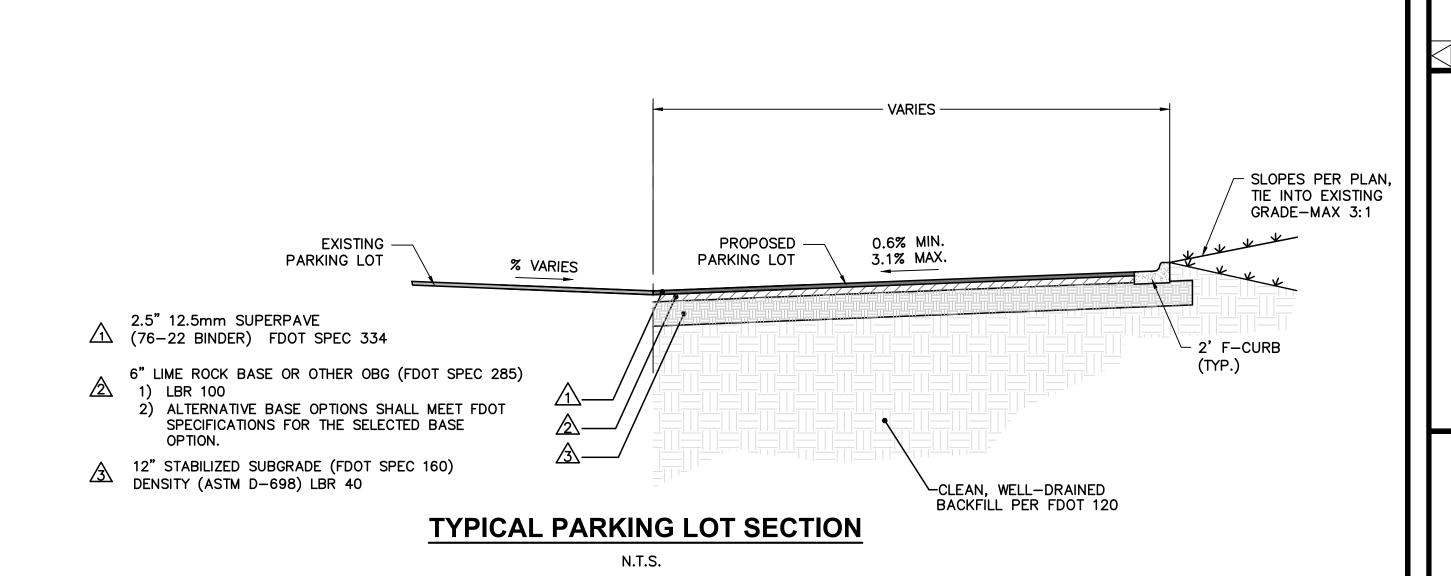
DESIGNED BY: C.A.P. DRAWN BY: CHECKED BY: T.D.N. APPROVED BY: V.C.L. PROJECT NO: 2022.073.01 DATE: SEPT 9, 2022

SHEET NUMBER



	STORMWATER STI	RUCTURE TABLE	
STRUCTURE NAME	STRUCTURE TYPE	DETAILS	NORTHING/EASTING
EX-STM-01	EXISTING STORM MANHOLE CONTRACTOR SHALL REMOVE EXISTING TOP AND RAISE STRUCTURE TOP TO PLAN ELEVATION	RIM = 58.76 EX-STM-P-05 INV IN = 52.81 EX-STM-P-06 INV OUT = 52.39	N: 494941.47 E: 1557452.7840
EX-STM-02	EXISTING STORM MANHOLE CONTRACTOR SHALL REMOVE EXISTING TOP AND RAISE STRUCTURE TOP TO PLAN ELEVATION	RIM = 56.34 EX-STM-P-06 INV IN = 47.69	N: 494518.97 E: 1557596.4955
EX-STM-03	EXISTING CURB INLET TO REMAIN	RIM = 56.25 EX-STM-P-07 INV OUT = 51.67	N: 494694.81 E: 1557641.3105
EX-STM-04	EXISTING STORM MANHOLE CONTRACTOR SHALL REMOVE EXISTING TOP AND RAISE STRUCTURE TOP TO PLAN ELEVATION WITH SOLID TOP	RIM = 55.23 EX-STM-P-08 INV OUT = 46.50	N: 494441.45 E: 1557677.7535
EX-STM-05	EXISTING STORM MANHOLE TO REMAIN	RIM = 52.26 EX-STM-P-08 INV IN = 45.75	N: 494449.37 E: 1557828.4815
STM-01	36" MES	RIM = 51.46 STM-P-01 INV IN = 48.04	N: 494384.20 E: 1557696.7207
STM-02	FDOT TYPE 6 (RH) CURB INLET	RIM = 55.09 STM-P-02 INV IN = 48.11 STM-P-01 INV OUT = 48.10	N: 494418.62 E: 1557669.8807
STM-03	FDOT TYPE 'F' TOP W/ 4' x 4' (INNER WIDTH) TYPE 'J' ALT B BOTTOM	RIM = 55.72 STM-P-03 INV IN = 48.29 STM-P-02 INV OUT = 48.29	N: 494542.98 E: 1557669.3965
STM-04	FDOT TYPE 4 CURB INLET	RIM = 55.61 STM-P-04 INV IN = 48.49 STM-P-03 INV OUT = 48.49	N: 494649.43 E: 1557594.5177
STM-05	FDOT TYPE 4 CURB INLET	RIM = 56.31 STM-P-05 INV IN = 48.50 EX-STM-P-07 INV IN = 51.56 STM-P-04 INV OUT = 48.50	N: 494655.36 E: 1557592.7808
STM-06	FDOT TYPE 'F' TOP W/ 4' x 4' (INNER WIDTH) TYPE 'J' ALT B BOTTOM	RIM = 55.85 STM-P-06 INV IN = 49.17 EX-STM-P-01 INV IN = 52.44 STM-P-05 INV OUT = 48.67	N: 494768.40 E: 1557585.8731
STM-07	FDOT TYPE F DBI	RIM = 55.98 STM-P-07 INV IN = 49.40 EX-STM-P-02 INV IN = 51.54 STM-P-06 INV OUT = 49.40	N: 494891.57 E: 1557541.1715
STM-08	FDOT TYPE F DBI	RIM = 55.90 STM-P-08 INV IN = 49.72 EX-STM-P-03 INV IN = 52.15 STM-P-07 INV OUT = 49.72	N: 495059.92 E: 1557480.0735
STM-09	FDOT TYPE 'F' TOP W/ 4' x 4' (INNER WIDTH) TYPE 'J' ALT B BOTTOM	RIM = 55.90 EX-STM-P-04 INV IN = 51.66 STM-P-08 INV OUT = 50.00	N: 495203.91 E: 1557427.9010
STM-10	FDOT TYPE P ALT A MANHOLE W/ SOLID TOP	RIM = 58.11 EX-STM-P-05 INV OUT = 55.19	N: 495247.14 E: 1557360.9170
STM-10	TYPE 'J' ALT B BOTTÓM FDOT TYPE P ALT A MANHOLE	RIM = 58.11	N: 495247.14

STOR	RMWATER PIPE	TABLE	
NAME	DESCRIPTION	LENGTH	SLOPE
EX-STM-P-01	EXISTING 18" RCP	22.56'	0.50%
EX-STM-P-02	EXISTING 18" RCP	22.27	0.50%
EX-STM-P-03	EXISTING 18" RCP	22.31'	0.50%
EX-STM-P-04	EXISTING 24" RCP	22.42'	0.50%
EX-STM-P-05	EXISTING 24" RCP	319.17	0.75%
EX-STM-P-06	EXISTING 24" RCP	446.28	1.05%
EX-STM-P-07	EXISTING 18" RCP	61.90'	0.18%
EX-STM-P-08	EXISTING 18" CPP	150.94'	0.50%
STM-P-01	36" ADS, N-12	43.64'	0.15%
STM-P-02	36" ADS, N-12	124.36'	0.15%
STM-P-03	36" ADS, N-12	130.15'	0.15%
STM-P-04	36" ADS, N-12	6.18'	0.15%
STM-P-05	36" ADS, N-12	113.25'	0.15%
STM-P-06	30" ADS, N-12	131.03'	0.18%
STM-P-07	30" ADS, N-12	179.09'	0.18%
STM-P-08	30" ADS, N-12	153.16'	0.18%



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CALVIN A. PALMER FL LICENSE NO.: 93779 FBPR CERTIFICATE OF AUTHORIZATION NO. 5057

GRADING AND
DRAINAGE PLAN
(SHEET 2 OF 2)

ONG-TERM AND
PLOYEE PARKING
EXPANSION

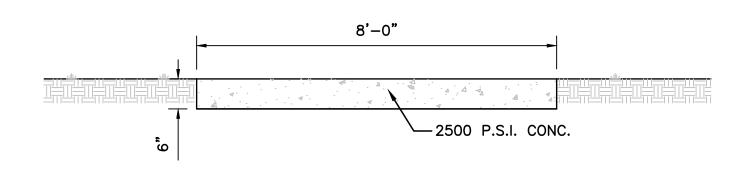
DESIGNED BY: C.A.P
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.
PROJECT NO: 2022.073.01

DATE: SEPT 9, 2022
SHEET NUMBER

C-6

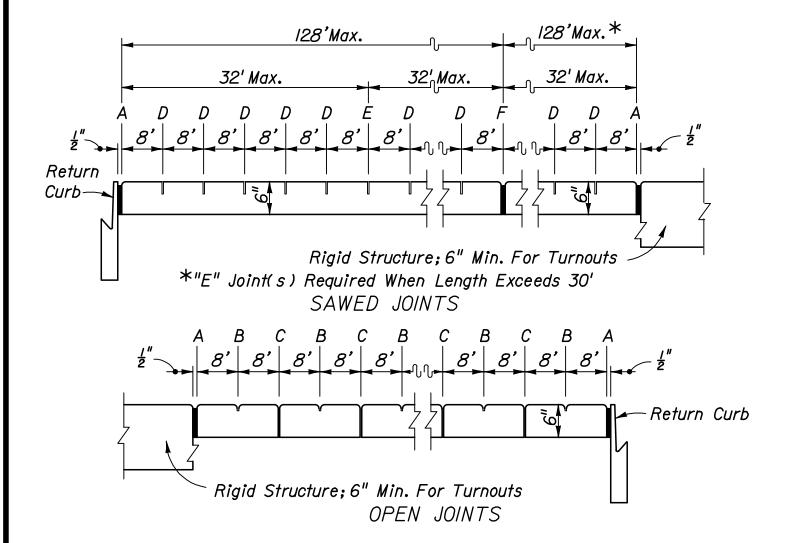
ASPHALT/ASPHALT PAVEMENT BUTT JOINT DETAIL

N.T.S.



CONCRETE SIDEWALK DETAIL

FDOT STANDARD PLANS 522-001 N.T.S.



EXAGGERATED SCALE LONGITUDINAL SECTION

SIDEWALK JOINTS

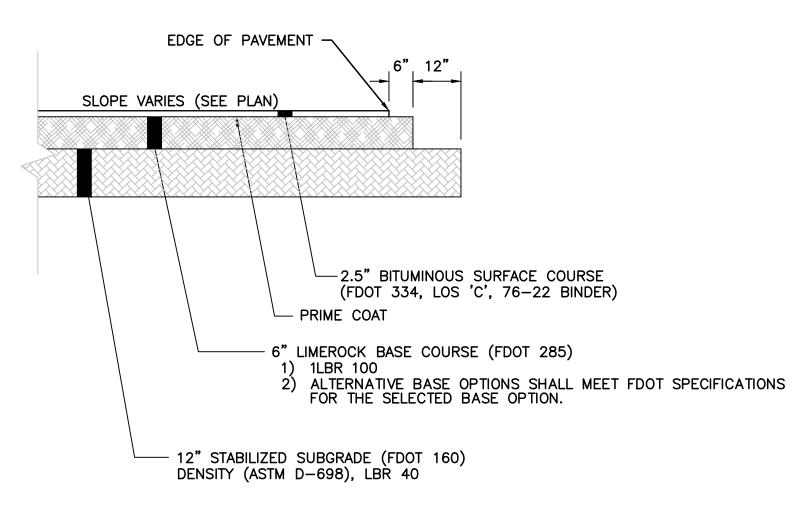
8' CONCRETE SIDEWALK JOINT DETAIL

N.T.S.

JOINT LEGEND

- A ½" Expansion Joints (Preformed Joint Filler)
- $B \frac{I}{8}$ Dummy Joints, Tooled
- $C \frac{1}{8}$ Formed Open Joints
- D- $\frac{3}{16}$ Saw Cut Joints, $I_2^{I''}$ Deep (96 Hour) Max. 5' Centers
- $E \frac{3}{16}$ Saw Cut Joints, $I_2^{I''}$ Deep (12 Hour) Max. 30' Centers
- F 1" Expansion Joint When Run Of Sidewalk Exceeds 120'.

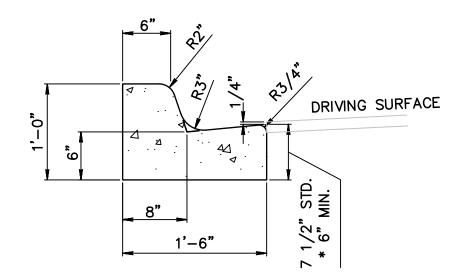
 Intermediate locations when called for in the plans or at local as directed by the Engineer.
- G- Cold Joint With Bond Breaker, Tooled



TYPICAL PAVEMENT SECTION - PARKING LOT

N.T.S.

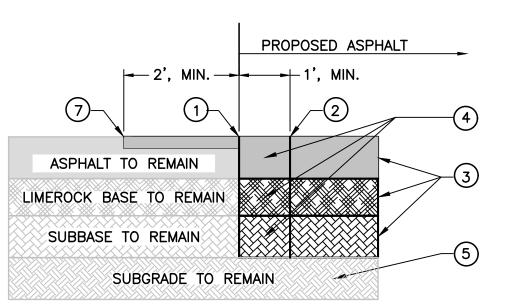
PRIME AND TACK COATS SHALL BE INCIDENTAL TO PAY ITEM 334-1. NO SEPARATE PAYMENT SHALL BE MADE FOR PRIME OR TACK COATS.



* NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

TYPE "F" CURB DETAIL

N.T.S.

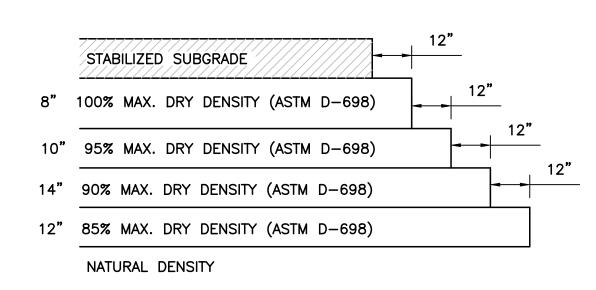


(6)(8) NOT SHOWN FOR CLARITY

DOUBLE SAW CUT - ASPHALT / ASPHALT DEMOLITION DETAIL

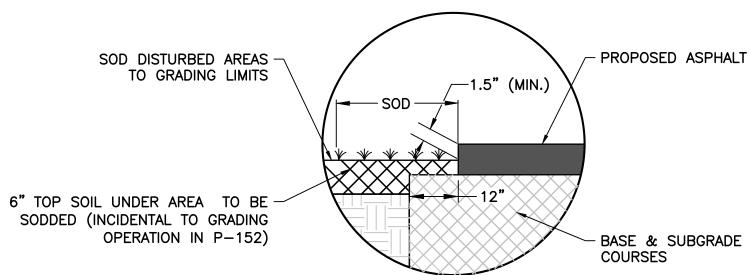
SEQUENCING OF ASPHALT PAVEMENT DEMOLITION:

- 1.) FINAL FOOTPRINT OF NEW ASPHALT. CONTRACTOR SHALL SAW CUT AROUND THE FINAL FOOTPRINT TO THE FULL DEPTH OF THE ASPHALT PAVEMENT STRUCTURE.
- 2.) THE CONTRACTOR SHALL THEN OFFSET 1' (ONE FOOT) MINIMUM TO THE INTERIOR SIDES OF THE PROPOSED ASPHALT AND SAW CUT THE FULL DEPTH OF THE ASPHALT PAVEMENT.
- 3. CONTRACTOR SHALL REMOVE ASPHALT PAVEMENT ON THE INTERIOR OF CUT 2, BUT LEAVE REMAINING 1' OF ASPHALT BETWEEN CUTS 1 AND 2 FOR PROTECTION OF ASPHALT TO REMAIN.
- (4.) CONTRACTOR MAY THEN REMOVE REMAINING ASPHALT STRIP BY BREAKING IT DOWN INTO SMALLER MORE MANAGEABLE SIZED PIECES FOR REMOVAL.
- (5.) REMOVE SUBGRADE MATERIAL SUFFICIENT TO PLACE REQUIRED AMOUNT OF SUBBASE, BASE, AND ASPHALT PER PLAN. COMPACT SUBGRADE TO 100% OF THE MODIFIED PROCTOR VALUE AT OPTIMUM MOISTURE PER TECHNICAL SPECIFICATIONS
- 6. PLACE NEW 160-1 SUBBASE & 285-1 BASE MATERIAL TO THICKNESSES SPECIFIED IN PLANS, COMPACTING EACH TO 100% OF THE MODIFIED PROCTOR VALUE AT OPTIMUM MOISTURE PER TECHNICAL SPECIFICATIONS.
- 7.) CONTRACTOR SHALL OFFSET 2' (TWO FEET) MINIMUM TO THE EXTERIOR SIDES OF THE PROPOSED ASPHALT AND SAW CUT TO A DEPTH OF 2". THE 2' WIDE STRIP WILL THEN BE MILLED TO A DEPTH OF 2".
- (8.) PAVE, FINISHED SURFACES TO MATCH EXISTING ASPHALT GRADES AT ALL COMMON EDGES (SEE GRADING PLANS).



SUBGRADE COMPACTION

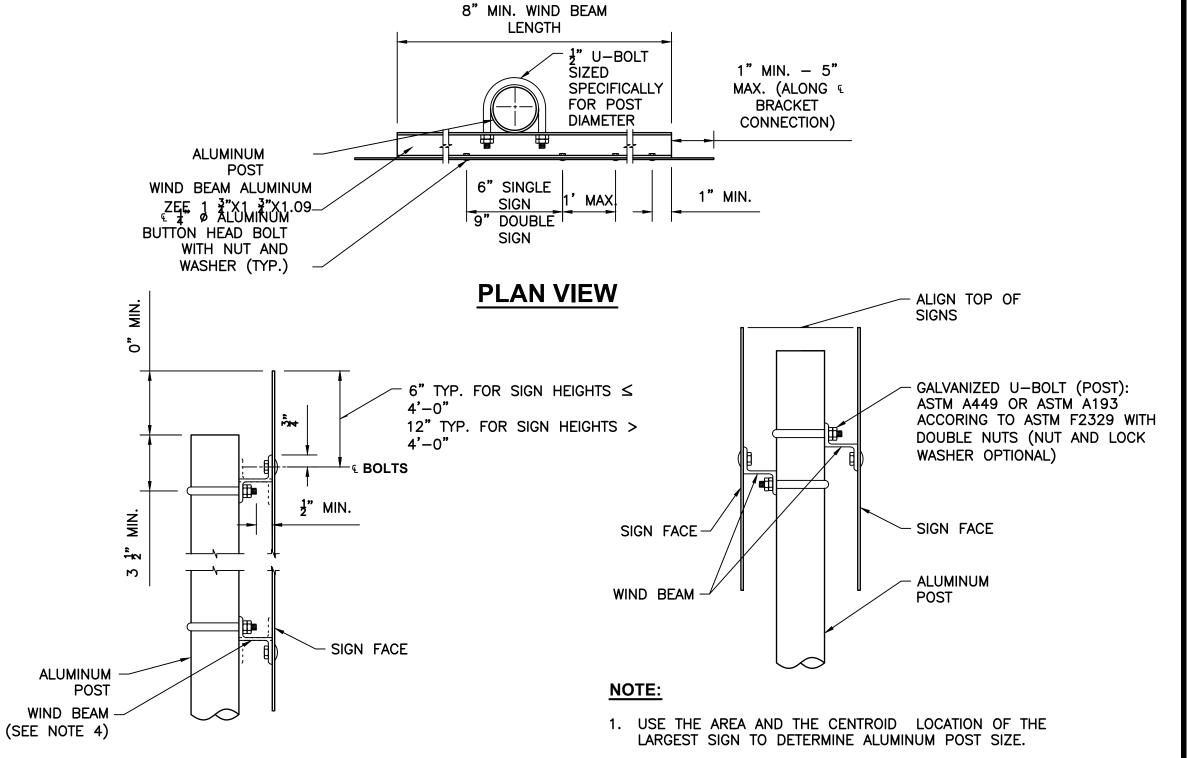
N.T.S.



DETAIL A - PAVEMENT DROP-OFF

DOUBLE SIGN SECTION

<u>N.T.S.</u>



SIGN MOUNTING DETAILS

SIGN MOUNTING NOTES:

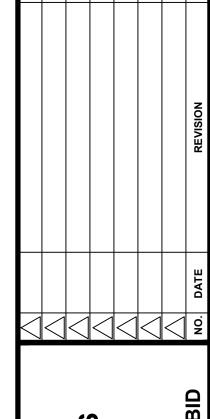
SINGLE SIGN SECTION

- 1. $\frac{1}{16}$ Ø STAINLESS STEEL HEX HEAD BOLTS WITH NYLON WASHER UNDER HEAD AND WASHER UNDER NUT MAY BE USED IN LIEU OF $\frac{1}{4}$ Ø ALUMINUM BUTTON OR FLAT HEAD BOLTS.
- 2. USE NYLON WASHERS (PROVIDED BY THE SHEETING SUPPLIER) UNDER THE BOLT HEADS TO PROTECT SIGN SHEETING.
- 3. SLOTS UP TO 2" LONG ARE ALLOWED IN WIND BEAMS TO ACCOMMODATE U-BOLTS FOR VARYING POST DIAMETERS.
- 4. WIND BEAMS MAY BE ORIENTED IN EITHER DIRECTION.
- 5. FOR SIGNS GREATER THAN 66" IN HEIGHT, INSTALL A THIRD WIND BEAM EVENLY SPACED BETWEEN THE TOP AND BOTTOM WIND BEAMS. FOR SIGNS UP TO 12" IN HEIGHT, USE ONLY ONE WIND BEAM AT & OF SIGN. INSTALL TWO WIND BEAMS ON SIGNS WITH HEIGHTS GREATER THAN 12" AND LESS THAN OR EQUAL TO 66".

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CALVIN A. PALMER
FL LICENSE NO.: 93779
FBPR CERTIFICATE OF
AUTHORIZATION NO. 5057



MISCELLANEOUS
DETAILS

LONG-TERM AND
EMPLOYEE PARKING
EXPANSION

DESIGNED BY: C.A.P.
DRAWN BY: C.A.P.
CHECKED BY: T.D.N.
APPROVED BY: V.C.L.

PROJECT NO: 2022.073.01

SEPT 9, 2022

SHEET NUMBER

DATE:

C-7

ELECTRICAL NOTES

- GENERAL ELECTRICAL NOTES LISTED BELOW APPLY TO ALL ELECTRICAL SHEETS. INCLUDING ALL DETAILS, SECTIONS, AND/OR DRAWINGS ISSUED AS ADDENDA TO THESE DRAWINGS.
- 2. ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED ON THE DRAWINGS AND PER THE SPECIFICATIONS.
- ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS OUTLINED IN ADA, UFC 3-600-01, NFPA AND SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. (UL) OR NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
- DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.
- THE DRAWINGS ARE DIAGRAMMATIC AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.
- THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PLANS, SPECIFICATIONS, AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
- IN THE EVENT OF CONTRADICTIONS, ON THESE PLANS FROM SHEET TO SHEET (ELECTRICAL, MECHANICAL, ARCHITECTURAL, CIVIL AND/OR STRUCTURAL), THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF THE MOST RESTRICTIVE (COSTLY) ACTION SPECIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S AND ENGINEER'S ATTENTION PRIOR TO THE PRE-CONSTRUCTION MEETING FOR CLARIFICATION OF THE WORK TO BE PERFORMED. ANY COSTS GENERATED AS A RESULT OF FAILURE TO IDENTIFY THESE DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO BID, COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL WORK. COORDINATE ALL MECHANICAL LOADS, VOLTAGES AND LOCATIONS WITH THE MECHANICAL CONTRACTOR AND MAKE NECESSARY ADJUSTMENTS WITHOUT EXTRA CHARGES.
- SHOULD ANY QUESTIONS AND/OR DISCREPANCIES ARISE REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR PROPER INTERPRETATION AND/OR CLARIFICATION PRIOR TO THE COMMENCEMENT OF ANY WORK. IN THE ABSENCE OF SUCH REQUEST AND/OR AUTHORIZATION FROM THE ARCHITECT /ENGINEER, THE CONTRACTOR WILL BE PROCEEDING AT HIS OWN RISK.
- 10. THE ELECTRICAL CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF A SCHEDULED INSPECTION TIME WITHIN 72
- 11. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES. THE CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATION OF DUCTS, CONDUIT, AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE INSTALLATION
- 12. FOR SPACES WITH INACCESSIBLE HARD CEILINGS OR PLUMBING CHASES, PROVIDE 30" x 30" HINGED ACCESS PANELS AS REQUIRED FOR ELECTRICAL EQUIPMENT ACCESS OR CLEARANCE.
- 13. THE ELECTRICAL CONTRACTOR IS TO PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING TAGS AT EACH END.
- 14. ALL BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING BUT NOT LIMITED TO ANGLE FRAMING, EQUIPMENT SUPPORTS, MOUNTING HARDWARE, ETC.
- 15. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL LABELED AND LISTED FOR THE APPLICATION. ALL WIRING SHALL BE PLENUM RATED OR ENCLOSED IN A METAL RACEWAY.
- 16. COORDINATE LIGHTING, SWITCHING, AND RECEPTACLE LOCATIONS IN MECHANICAL SPACES WITH RESPECT TO ACTUAL MECHANICAL EQUIPMENT INSTALLATION FOR OPTIMUM LIGHTING AND UTILIZATION OF RECEPTACLES.
- 17. SURGE PROTECTION SHALL BE PROVIDED ON ALL CABLES ENTERING/ EXITING BUILDINGS THAT CONNECT TO ELECTRICAL EQUIPMENT.
- 18. CONDUCTORS: FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE THWN-2 COPPER (MINIMUM SIZE #12 UNLESS OTHERWISE NOTED). NO ALUMINUM SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS UNLESS OTHERWISE INDICATED. ALL RACEWAYS SHALL HAVE A GREEN GROUNDING CONDUCTOR. CONDUCTORS UP-SIZED FOR THE PURPOSE OF MITIGATING VOLTAGE DROP SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID PRICE AND VOLTAGE DROP CALCULATIONS SHALL BE PREFORMED IN ACCORDANCE WITH NFPA 70. ALL BRANCH CIRCUITS SHALL CARRY A GROUNDING EQUIPMENT CONDUCTOR, AND BE WIRED WITH COLOR-CODED WIRE WITH THE SAME COLOR USED FOR A PHASE THROUGHOUT.
- 19. RACEWAYS AND FITTINGS: ALL RACEWAYS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT WITH LOCKNUTS AND BUSHINGS, WITH THE EXCEPTION THAT WHERE SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES. ELECTRICAL METALLIC TUBING (E.M.T) MAY BE USED FOR ALL INTERIOR EXPOSED AND CONCEALED WORK WHERE IT IS NOT SUBJECT TO PHYSICAL DAMAGE OR CORROSION. FITTINGS SHALL BE STEEL SET SCREW TYPE. NO BX CABLE ALLOWED. EXPOSED CONDUIT IS NOT PERMITTED IN FINISHED OFFICE AREAS. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL **EXPANSION JOINTS ARE CROSSED**

ELECTRICAL NOTES, CONT.

- MATERIALS SHALL BE NEW AND UNUSED AND THE CATALOGUED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS. THE MATERIALS SHALL BE OF THE MANUFACTURER'S LATEST STANDARD DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS.
- ALL GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NEC REQUIREMENTS. IN ADDITION THERETO AS IMPOSED BY THE DRAWINGS AND THE LOCAL CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION.
- PROVIDE REDLINED "AS BUILT" ELECTRICAL DRAWINGS AT THE COMPLETION OF THE PROJECT.
- CONTRACTOR REPRESENTS THAT HIS BID IS BASED UPON THE MANUFACTURER'S MATERIALS AND EQUIPMENT DESCRIBED IN THE CONTRACT DOCUMENTS.
- ELECTRICAL CONTRACTOR SHALL FILE BUILDING DEPARTMENT ELECTRICAL PERMIT FORMS.
- ALL EQUIPMENT SHOWN IS TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- ELECTRICAL EQUIPMENT BASIS OF DESIGN IS AS NOTED ON PLANS. ACCEPTABLE EQUIVALENT EQUIPMENT MAY BE SUBMITTED FOR REVIEW.
- THIS DRAWING IS DIAGRAMMATIC IN NATURE AND DEPICTS THE GENERAL ARCHITECTURE, ARRANGEMENT AND CONNECTIVITY OF THE LOCAL AREA NETWORK DEVICES. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND APPROXIMATE PHYSICAL LOCATIONS OF DEVICES.

ABBREVIATIONS:

Α	AMPERES	MCB	MAIN CIRCUIT BREAKER
AC / CU		MCC	MOTOR CONTROL CENTER
	AIR CONDITIONER / CONDENSING UNIT (HVAC)		
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHU	AIR HANDLER UNIT (HVAC)	MDP	MAIN DISTRIBUTION PANEL
	, ,		
AL	ALUMINUM	MECH	MECHANICAL
ANNUN	ANNUNCIATOR		
ARCH	ARCHITECT	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NF	NON-FUSED
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
B.A.F.	DIC ACC FANC		
	BIG ASS FANS	NIC	NOT IN CONTRACT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
BFF	BELOW FINISHED FLOOR	NTS	NOT TO SCALE
BBS	BELOW BOTTOM OF SLAB		1101 10 00/122
		000	
BLDG	BUILDING	OSP	OIL/WATER SEPARATOR PANEL
С	CONDUIT	PVC	POLYVINYL CHLORIDE
		_	
CAT	CATALOG	P/T	POTENTIAL TRANSFORMER
C.E.P.	CENTRAL ENERGY PLANT	PC	PHOTO CELL
CKT	CIRCUIT		
CU		R	DECECCED
	COPPER		RECESSED
C/B	CIRCUIT BREAKER	RECP.	RECEPTACLE
C/T	CURRENT TRANSFORMERS		
		SCR	SHORT CIRCUIT RATING
DIA	BIAMETER		
DIA	DIAMETER	SPD	SURGE PROTECTION DEVICE
DWG	DRAWING	SURF	SURFACE
DVP	DIVERTER VALVE PANEL		
21.	DIVERTICAL TANGE	TEL	TELEBLIONE
			TELEPHONE
EF	EXHAUST FAN (HVAC)	TEMP	TEMPERATURE
FOTC	FIBER OPTIC TERMINATION CABINET	UG	UNDERGROUND
FLA	FULL LOAD AMPS	UNIV	UNIVERSAL
FT	FEET	UNO	UNLESS NOTED OTHERWISE
		UPS	UNINTERRUPTED POWER SUPPLY
GND	CDOLIND	01 0	OMMITERATOR TED FOWER OUT ET
	GROUND		
GEN	GENERATOR	V	VOLTS
GF	GROUND FAULT INTERRUPT		
	51 (5 51 15 17 (52 1 11 1 2 1 1 (51 1 1	W	WATTS
LILD	400 (/0==) (101 TIN 0 DD 110 D 115		
HLP	480Y/277V LIGHTING BRANCH PANEL	WP	WEATHERPROOF ENCLOSURE
HPP	480Y/277V EQUIPMENT BRANCH PANEL	GF/WP	WEATHERPROOF WITH GROUND FAULT INTERRUPT
HVAC	HEATING, VENTILATION, AIR CONDITIONING		
	TIE/(TIIVO, VEIVTIE/(TIOIV, / WIC OONDITIOIVIIVO	XFMR	TDANICEODMED
		VLINIL	TRANSFORMER
IG	ISOLATED GROUND		
		Υ	WYE
kCMIL	THOUSAND CIRCULAR MILS WIRE		
		۸	D.E.I. T.A.
KVA	KILOVOLT - AMPERES	Δ	DELTA
KW	KILOWATTS	ф	PHASE
LCP	LIGHTING CONTROL PANEL		
LDP	208Y/120V DISTRIBUTION PANEL		
LLP	208Y/120V LIGHTING PANEL		
LPP	208Y/120V EQUIP POWER PANEL		
LSIA			
	LONG, SHORT, INSTANTANEOUS FAULT ALARM		
LSIG	LONG, SHORT, INSTANTANEOUS GROUND FAULT		

STANDARDS AND REGULATORY REQUIREMENTS

CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CODE, STANDARDS, GUIDELINES, ETC. IF THERE SHOULD BE CONFLICTING REQUIREMENTS BETWEEN THESE CODES, STANDARDS, GUIDELINES, ETC., THE MORE OR MOST STRINGENT REQUIREMENT SHALL APPLY THAT DOES NOT VIOLATE ANY CODES OR LAWS.

- a. [NFPA 70] NATIONAL ELECTRIC CODE (NEC), 2017 EDITION
- [NFPA 72] NATIONAL FIRE ALARM CODE, 2016 EDITION
- [NFPA 101] LIFE SAFETY CODE, 2018 EDITION
- [NFPA 110] STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2016 EDITION
- [NFPA 780] STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS,
- 2020 FLORIDA ENERGY CODE, 7TH EDITION
- LOCAL GOVERNMENT AND 2020 FLORIDA BUILDING CODE, 7TH EDITION
- 1. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
- COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT. DEVICES, CONTROLS AND APPURTENANCES WITH DOA, DESIGN PROFESSIONAL AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL.

POWER EQUIPMENT

PANELBOARD,





DRY-TYPE TRANSFORMER, DASHED LINES INDICATE **EQUIPMENT CLEARANCE PER NEC 110.33**

CONDUIT AND WIRE



ELECTRICAL CONDUCTOR HOMERUN, CONDUCTORS ARE #12AWG CU WIRE UNLESS OTHERWISE NOTED. SEE PANEL SCHEDULES AND RISER DIAGRAM DETAILS. (CONDUCTOR SIZE, NUMBER OF CONDUCTORS, VOLTAGE DROP AND CONDUIT SIZE)

---- UNDERGROUND ELECTRICAL CONDUCTOR

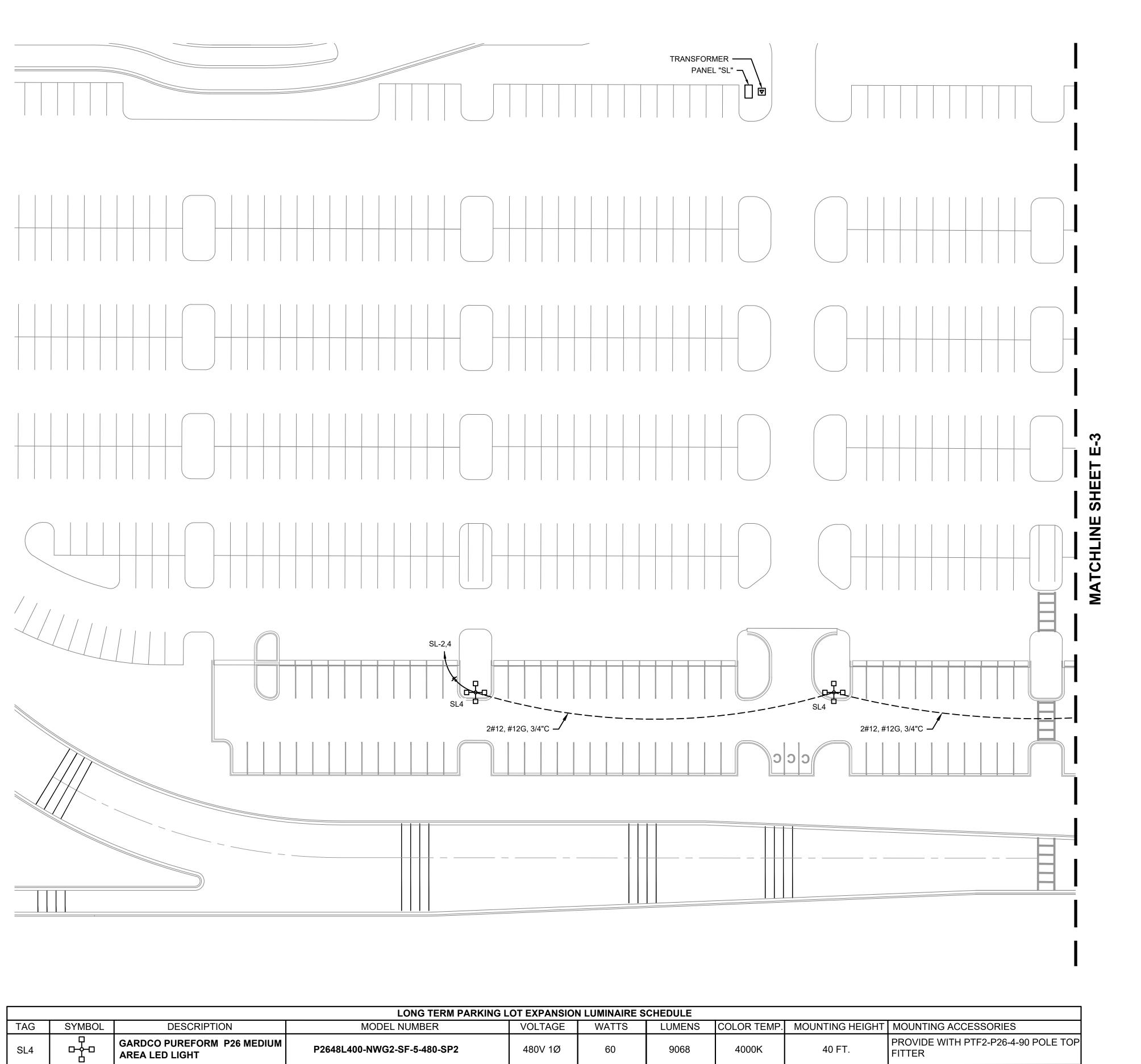
LIGHTING EQUIPMENT

DIRECT BURIED POLE - 40FT MOUNTING HEIGHT, GARDCO PUREFORM. 480V, 1PH LENGTH AND BURIAL TO MEET 140 MPH WIND LOAD AT 40' MOUNTING HEIGHT

DESIGNED BY: DRAWN BY: **CHECKED BY:** APPROVED BY:

DATE: AUGUST 18, 2022 SHEET NUMBER

PROJECT NO: 2022.073.01



480V 1Ø

60

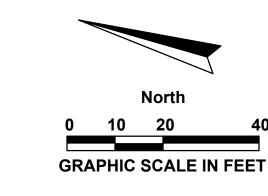
9068

4000K

40 FT.

P2648L400-NWG2-SF-5-480-SP2

SL4



SITE NOTES:

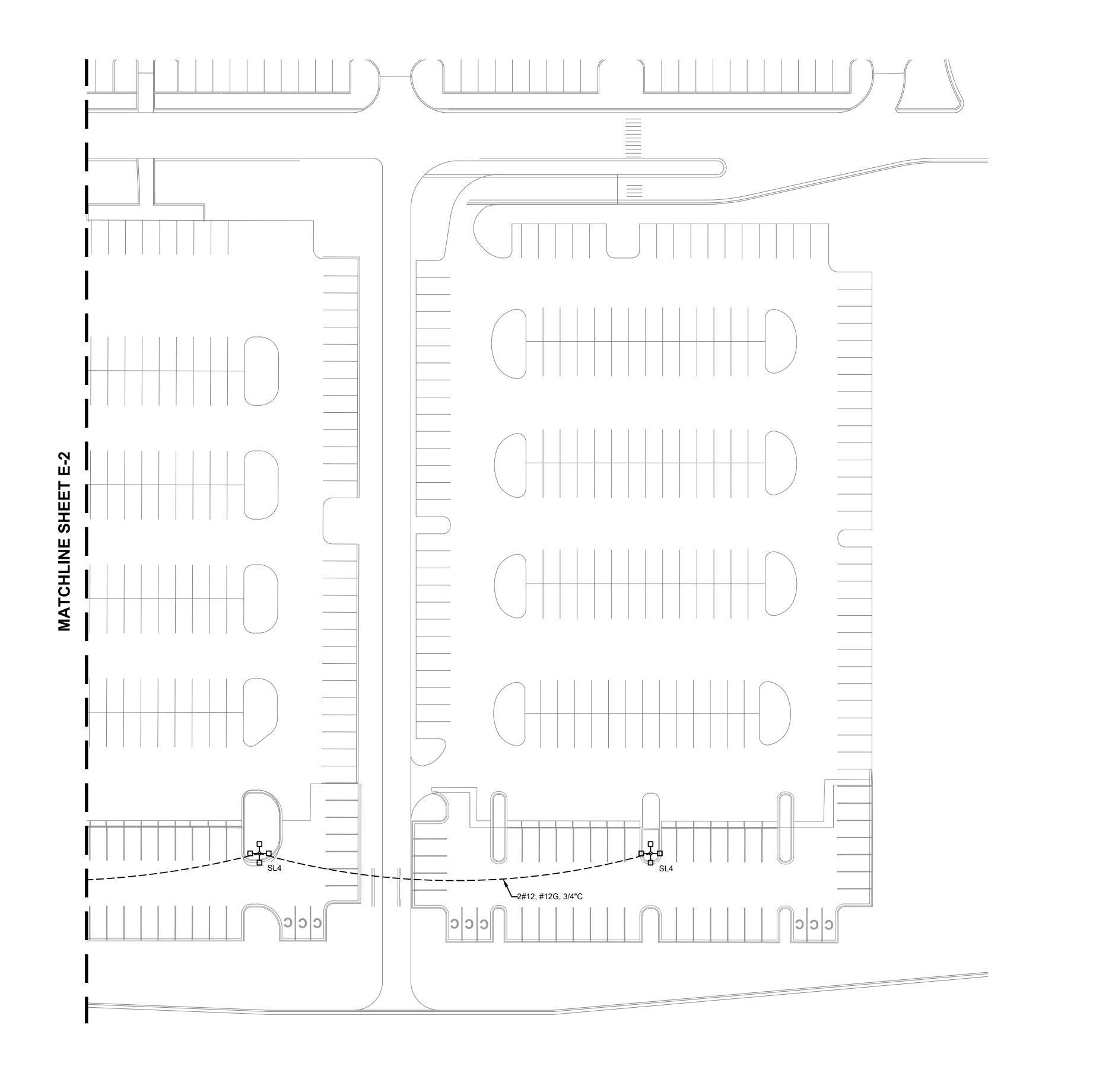
EXISTING LIGHTING CONTACTOR TO BE USED.

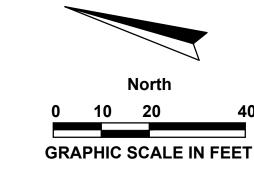
SEAN DAY FL LICENSE NO.: 80296

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY: PROJECT NO: 2022.073.01

SHEET NUMBER

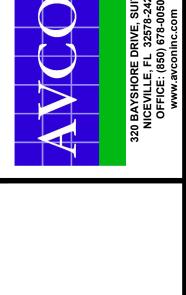
DATE: AUGUST 18, 2022





SITE NOTES:

1. SEE SHEET E-2 FOR NOTES.



SEAN DAY FL LICENSE NO.: 80296

SITE ELECTRICAL
PLAN 2 OF 2

DRAFT - RELEASE FOR BID

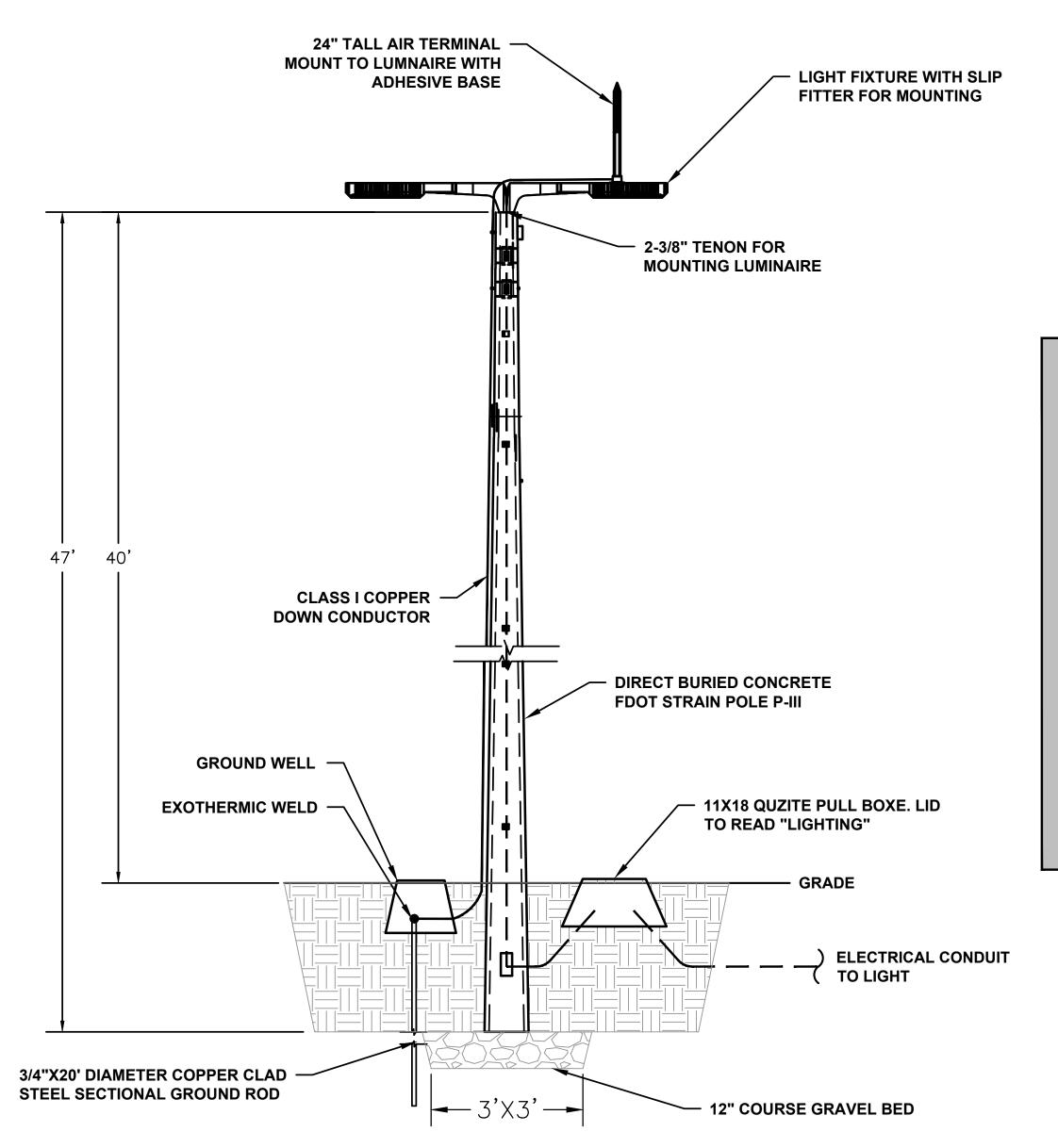
DRAFT - RELEASE FOR BID

NO. DATE

EXPANSION
PREPARED FOR
NORTHWEST FLORIDA BEACHES
INTERNATIONAL AIRPORT

DESIGNED BY: SD
DRAWN BY: SR
CHECKED BY: SD
APPROVED BY: SD
PROJECT NO: 2022.073.01
DATE: AUGUST 18, 2022

SHEET NUMBER



125A MAIN C/B SIZE: BUS TYPE: COPPER SERIES RATED **FULLY RATED** 14,000 TYPE 3R AIC RATING: 480V NEMA RATING: VOLTAGE: SURFACE LUG TYPE: BOLT-ON / 75°C PHASE / WIRES: 1Φ / 3W MOUNTING: (AMPS) (AMPS) (kVA) (kVA) 0.48 2.00 NEW ACTUAL CONNECT LOAD: 2.00 0.96 TOTAL LOAD PHASE A: 0.48 2.00 NEW DEMAND LOAD: 0.96 2.00 TOTAL LOAD PHASE B: 0.00 0.00 TOTAL LOAD PHASE C:__ LOAD (kVA) BREAKER BUS **BREAKER** LOAD LOAD (kVA) LOAD DESCRIPTION OAD DESCRIPTION AMPS C/B TRIP POLE AMPS ΦС POLE C/B TRIP ΦВ ΦС ΦВ ΦА АВС XISTING LOAD 60A 20A EXPANSION PARKING LOT LIGHTING SPARE 20A 20A 0.00 EXISTING LOAD 20A 30A XISTING LOAD BLANK SPACE **BLANK SPACE** TOTALS 0.00 0.48 0.00 TOTALS 0.00 0.00 0.48 PANEL SCHEDULE NOTES: 1: SIZE CB PER MFG RECOMMENDATIONS

UTILITY / XFMR

WEST PARKING LOT

FED FROM:

LOCATION:

SL (EXISTING)

MAIN CIRCUIT BREAKER

PANEL:

FRAME:

225A

1 LIGHT POLE INSTALLATION SCALE: N.T.S.

SEAN DAY FL LICENSE NO.: 80296 SCHEDULE LONG-TERM AND EMPLOYEE PARKING EXPANSION **DESIGNED BY:**

DRAWN BY: CHECKED BY: APPROVED BY:

PROJECT NO: 2022.073.01 DATE: AUGUST 18, 2022

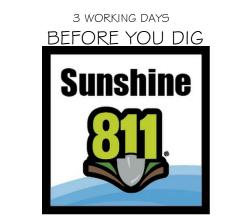
SHEET NUMBER

FOR BID PURPOSES ONLY NOT FOR CONSTRUCTION

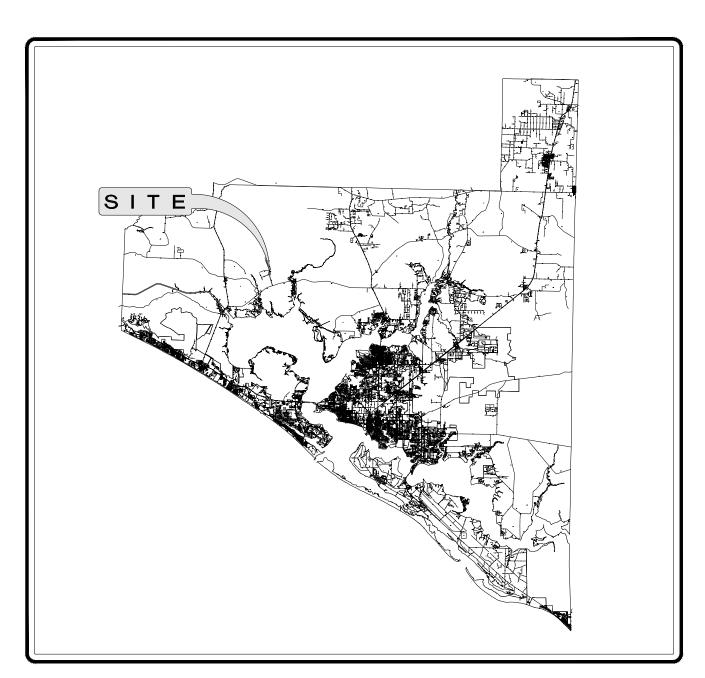
CELL LOT PARKING EXPANSION

BAY COUNTY, FLORIDA SECTION 36, T15, R16W

BEACHES INTERNATIONAL AIRPORT

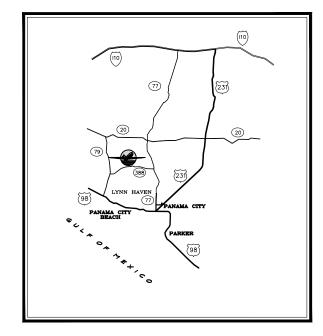


VOLUMEII



VICINITY MAP

NOT TO SCALE



EXTENDED ROADWAY MAP

NOT TO SCALE

INDEX	
SHEET DESCRIPTION	SHEET No
COVER	C.O
NOTES	c.1
EXISTING CONDITIONS, EROSION CONTROL & DEMOLITION PLAN	C.2
SITE # MAINTENANCE OF TRAFFIC PLAN	C.3
GRADING & DRAINAGE PLAN	c.4
EROSION CONTROL DETAILS	C.5



SITE MAP

SITE DATA

PARCEL ID NUMBER: 32432-010-000 FUTURE LAND USE: ARPT/IND AIRPORT INDUSTRIAL SECTOR PLAN FLOOD ZONE: "X"

DESIGN CRITERIA

BAY COUNTY LAND DEVELOPMENT REGULATIONS

PANAMA CITY-BAY CO AIRPORT & INDUSTRIAL DISTRICT

NOTES

- 1) THE CONTRACTOR SHALL COMPLY WITH THE "FLORIDA TRENCH SAFETY ACT" (LAWS OF FLORIDA 90—96, OCTOBER 1, 1990) AND PROVIDE PROOF OF COMPLIANCE. THE CONTRACTOR MUST PROVIDE "NOTORIZED STATEMENT" TO THE OWNER, THAT THEY ARE IN COMPLIANCE WITH ALL APPLICABLE TRENCH SAFETY STANDARDS
- 2) EVERY ATTEMPT TO LOCATE UNDERGROUND UTILITIES MUST BE MADE THERE ARE THE POSSIBILITIES OF UNDERGROUND ELECTRICAL, TELEPHONE, ETC. THAT HAS NOT BEEN LOCATED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, DEPTH AND TYPE OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

ENGINEER OF RECORD:

SCOT C. RUTHERFORD, PE LICENSE No. 70041 SCR & ASSOCIATES 4116 N. HWY 231 E. BLDG PANAMA CITY, FL. 32404

SURVEYOR OF RECORD:

SKIPPER C. RUTHERFORD, PLS LICENSE No. 3961 SCR & ASSOCIATES 4116 N. HWY 231 E. BLDG PANAMA CITY, FL. 32404

PREPARED FOR:

ZHA, INC. RICK MELLIN 601 N. MAGNOLIA AVE. ORLANDO, FLORIDA 32801

PROPERTY OWNER:

PANAMA CITY-BAY CO AIRPORT \$ INDUSTRIAL DISTRICT 6300 WEST BAY PKWY, BOX A PANAMA CITY, FL 32409

PREPARED BY:



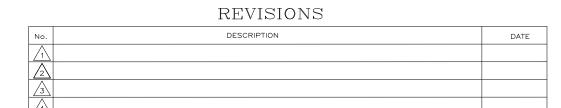
ENGINEERING - SURVEYING

FLORIDA CERTIFICATE OF AUTORIZATION No. 28715

3445 HWY 389, Panama City, Florida 32405
Phone 850-265-6979 Fax 850-265-9942 SCR®scr.us.com www.SCR.us.com

JOB No. 11163

JOB No. 11163 FILE No. R15353



IRZ. SCALE AS SHOW VRT. SCALE N/A PROJECT No. ISSUE DATE NOT ISSUEL SHEET: C

GENERAL NOTES:

- 1) ALL DISTURBED AREAS ARE TO BE SODDED OR SEEDED IN ACCORDANCE WITH FDOT SPECIFICATION REGARDING MATERIALS INSTALLATION AND INITIAL MAINTENANCE. SOD AND SEED SHALL BE FEPT SUFFICIENTLY MOIST TO INSURE PROPER GROWTH DURING CONSTRUCTION. SEE SHEET C.3 FOR ADDITIONAL NOTES.
- 2) TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH BAY COUNTY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
- 3) CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND, REMOVE AND RELOCATE EXISTING UTILITIES AS REQUIRED. CONTRACTOR NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY
- 4) THE CONTRACTOR IS REQUIRED TO REVIEW THE COMPLETE PERMIT PRIOR TO CONSTRUCTION COMMENCEMENT AND TO NOTIFY ALL NECESSARY PARTIES PRIOR TO CONSTRUCTION.
- 5) A COPY OF THE ORIGINAL PERMIT WILL BE KEPT ON SITE.
- 6) AN 8 1/2"x11" WEATHER RESISTANT SIGN, INCLUDING THE PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD.
- 7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MONITOR ALL CONSTRUCTION ACTIVITY DURING THE ENTIRE CONSTRUCTION PROCESS.
- 8) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN AS-BUILT SURVEY PERFORMED BY A PROFESSIONAL LAND SURVEYOR OF GRADING, DRAINAGE. AS-BUILT SURVEY SHOULD MEET THE REQUIREMENTS
- 9) AS-BUILT DRAWINGS WILL BE SUBMITTED TO SCR & ASSOCIATES IN DIGITAL FORMAT (AUTOCAD R14 OR LATER), AS WELL AS PAPER COPY SIGNED AND SEALED BY THE PROFESSIONAL LAND SURVEYOR OF RECORD.
- 10) THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT PURPORT TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES, OR PIPING.
- 11) THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- 12) THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
- 13) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT
- 14) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND COMPLY WITH THE CONDITIONS OF THE VARIOUS PERMITS OF THE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL SCHEDLIE THE RECHIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
- 15) ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS AS THOUGH INCLUDED.
- 16) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SETTING OF CONSTRUCTION STAKES TO MARK THE LOCATION, ALIGNMENT, ELEVATION, AND GRADE OF THE WORK. THE STAKES PROVIDED SHALL BE ADEQUATE IN NUMBER, POSITION, AND ELEVATION SO THAT THE PHYSICAL ITEM CAN BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. THE CONSTRUCTION LAYOUT SURVEY SHALL MEET THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA (CHAPTER 21HH-6, FLORIDA ADMINISTRATIVE CODE), AND SHALL BE PERFORMED BY A PERSON OF ADEQUATE EXPERTISE. FAILURE TO PERFORM THE CONSTRUCTION STAKEOUT IN ACCORDANCE WITH THE CONSTRUCTION PLANS MAY RESULT IN REMOVAL AND REPLACEMENT OF THE IMPROVEMENTS AT NO EXPENSE TO THE OWNER. CONSTRUCTION LAYOUT INFORMATION HAS BEEN PROVIDED IN THE FORM OF DIMENSIONS AND COORDINATE GEOMETRY. THE INFORMATION IS ADEQUATE FOR THE CONSTRUCTION LAYOUT OF THE IMPROVEMENTS USING STANDARD SURVEYING CONSTRUCTION LAYOUT TECHNIQUES. IN NO CASE SHALL THE CONTRACTOR SCALE INFORMATION FROM THE PLANS OR ATTEMPT TO CONSTRUCT IMPROVEMENTS WITHOUT PERFORMING THE CONSTRUCTION LAYOUT IN ACCORDANCE WITH THE INFORMATION CONTAINED HEREIN.
- 17) WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER. THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE AND INFORM HIMSELF FULLY IN REGARD TO ALL CONDITIONS PERTAINING TO THE PLACE WHERE THE WORK IS TO BE PERFORMED FOR PURPOSE OF DETERMINING HIS COST TO PERFORM THE WORK. THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING, EXISTING FACILITIES REMOVAL AND REPLACEMENT, OR RELOCATION.
- 18) WHEN WORK ALONG DRIVES REQUIRES THE REMOVAL AND REPLACEMENT OF EXISTING DRAINAGE STRUCTURES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR RELATED ITEMS OF WORK

ENVIRONMENTAL SEQUENCE:

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ANY ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS,

TIMING OF CONTROLS/MEASURES:

AS IS PRACTICAL THE SEDIMENT CONTROL WILL BE INSTALLED/CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITÉ. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

- 1. INSTALL SILT FENCES AND/OR HAY BALES, AS REQUIRED.
- CONSTRUCT SEDIMENTATION BASIN. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT
- POND LOCATION. CONTINUE CLEARING AND GRUBBING.
- STOCKPILE TOP SOIL IF REQUIRED PERFORM PRELIMINARY GRADING ONSITE, AS REQUIRED.
- STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE.
- 8. INSTALL STORM SEWER, CURBS AND GUTTER. 9. APPLY BASE TO PROJECT.
- 10. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING. KEEP SOD & SEED SUFFICIENTLY MOIST UNTIL IT IS ESTABLISHED 11. COMPLETE FINAL PAVING.
- 12. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
- 13. REMOVE DEBRIS AND SEDIMENT FROM THE STORMWATER PIPING SYSTEM,
- 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED.

PAVING, GRADING, AND EARTH WORK NOTES:

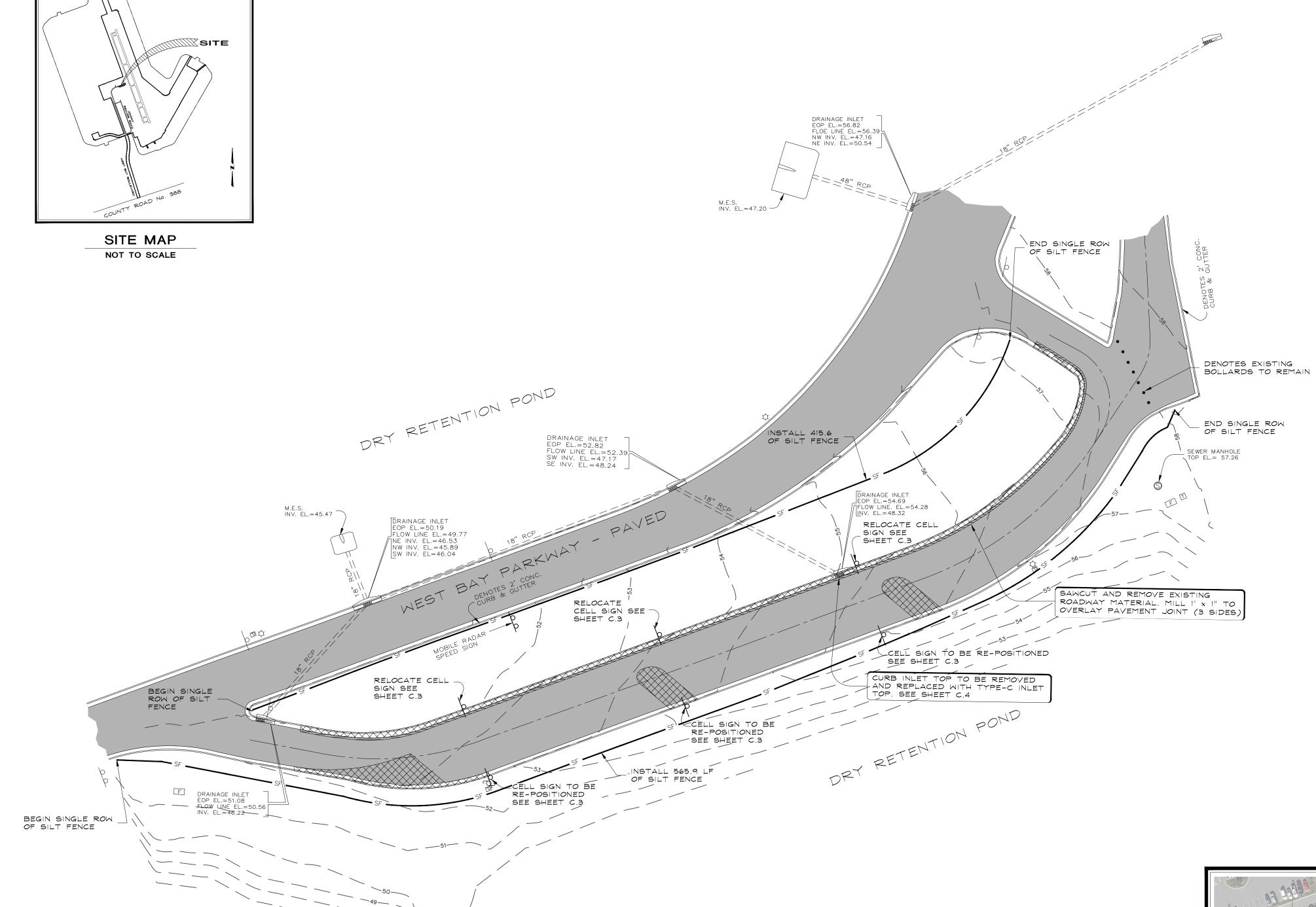
- 1) ANY DEFICIENCY IN THE QUANTITY OF MATERIAL FOR BACK FILLING THE TRENCHES, OR FOR FILLING DEPRESSIONS CAUSED BY SETTLEMENT, SHALL BE SUPPLIED BY THE CONTRACTOR AT NO COST TO THE OWNER. THIS ALSO APPLIES TO BASE COURSE UNDER
- 2) PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS. SEE DETAIL
- 3) SEE SITE PLAN FOR ADDITIONAL SITE PREPORATION NOTES.

BENCHMARK & ELEVATION NOTES:

- 1) ELEVATIONS SHOWN HEREON ARE BASED ON THE PROJECT ELEVATION DATUM AS CONTAINED IN THE SITE BENCHMARKS AS SHOWN ON THIS SHEET. VERTICAL LAYOUT TO BE PERFORMED USING THE PROVIDED SITE BENCHMARKS AND NOTES.
- 2) BENCHMARKS SHOWN HEREON SHALL BE USED IN THE CONSTRUCTION OF THE PROJECT. IN NO CASE SHALL ANY OTHER BENCHMARK OR ELEVATION REFERENCE BE USED IN THE CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL NOT USE THE ELEVATION OF EXISTING IMPROVEMENTS SHOWN HEREON OR FROM OTHER SOURCES AS A BASIS FOR CONSTRUCTION. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN THE REMOVAL AND REPLACEMENT OF CONSTRUCTED IMPROVEMENTS AT NO COST TO THE OWNER.
- 3) IN THE EVENT THAT BENCHMARKS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL NOTIFY SCR & ASSOCIATES FOR REPAIR OR REPLACEMENT. USE OF THE PROVIDED BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PREFORMED IN ACCORDANCE WITH STANDARD SURVEYING TECHNIQUES AND THE MINIMUM TECHNICAL STANDS FOR SURVEYING IN THE STATE OF FLORIDA, FAC SS-17. PRIOR TO UTILIZING THE BENCHMARKS FOR VERTICAL LAYOUT, CONTRACTOR SHALL CHECK BETWEEN MINIMUM OF TWO PROVIDED BENCHMARKS TO INSURE THEIR INTEGRITY.

LOT EXPANSION

HRZ. SCALE AS SHOWN V VRT. SCALE _____N/A__ ISSUE DATE NOT ISSUED SHEET: C.2



CENTERLINE MORE OR LESS HRZ. VRT. HORIZONTAL VERTICAL NUMBER LICENSED BUSINESS P.E. PROFESSIONAL ENGINEER
R RADIUS
EL. ELEVATION
F.F.E. FINISHED FLOOR ELEVATION
CONC. CONCRETE
SF SQUARE FEET
N NORTH SQUARE FEET
NORTH
EAST
SOUTH
WEST
EXISTING

LINEAR FEET LF BTTM. INV. BOTTOM INVERT R.C.P. SEC. TYP. PE. REINFORCED CONCRETE PIPE SECTION

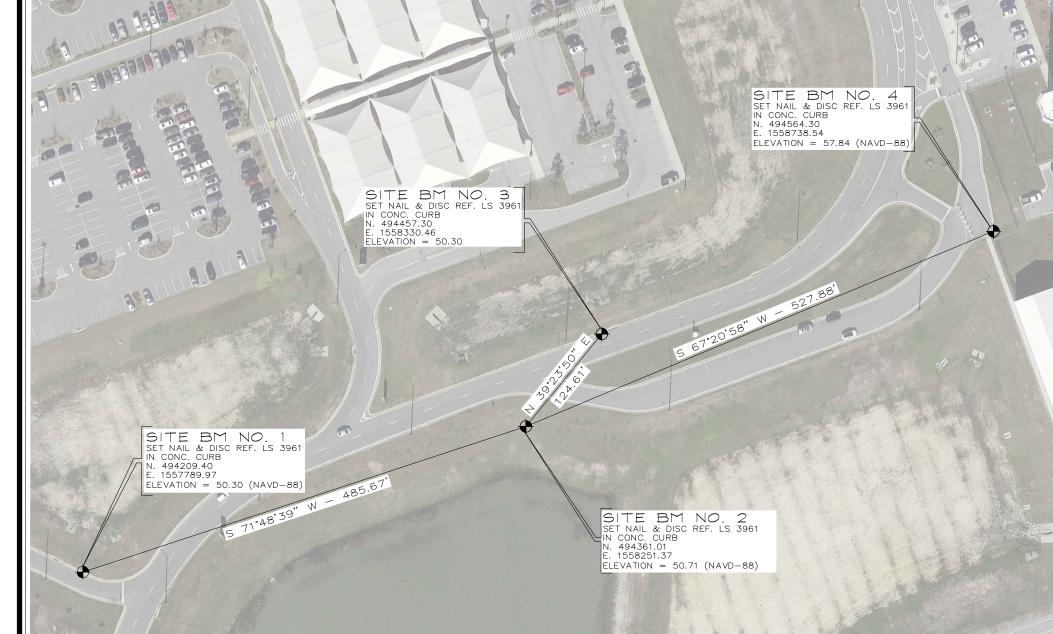
TYPICAL
POLYETHYLENE
WATER METER
REQUIREMENTS
ADJACENT GRADE
LANDSCAPE AREA
POLYVINYL CHLORIDE
UNLESS OTHERWISE NOTED WM REQ. A.G. LA LANDSCAPE AREA
P.V.C. POLYVINYL CHLOI
UON UNLESS OTHERWI
T.O.B. TOP OF BANK T.T.E. TIE TO EXISTING IRRIGATION EXISTING

STANDARD PARKING SPACES NUMBERING EXISTING TELEPHONE OPTIC PEDESTAL EXISTING PULL BOX EXISTING FIRE HYDRANT EXISTING SEWER MANHOLE EXISTING UTILITY POLE

-- EXISTING TRAFFIC SIGN EXISTING CONCRETE BOLLARD EXISTING MITERED END SECTION EXISTING STREET LIGHT +24.54 EXISTING SPOT ELEVATION 54.74 PROPOSED SPOT ELEVATION/POINT NUMBER PROPOSED HANDICAP SIGN

SLOPE DIRECTION ARROW 72.0— TIE IN POINT OF PROPOSED GRADE TO EXISTING GRADE
PIPE CONTINUES OUTSIDE THE SURVEY'S SCOPE

LINETYPE \$ HATCHING LEGEND EXISTING PROPOSED ASPHALT PAVEMENT ASPHALT PAVEMENT AND CURBING TO BE REMOVED ASPHALT PAVEMENT



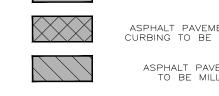


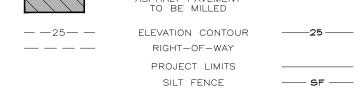
WET RETENTION POND

SYMBOLS & ABBREVIATIONS

FOR BID

PROPOSED





SITE CONTROL AND BENCHMARK DETAIL

STANDARD PARKING SPACES NUMBERING

EXISTING TELEPHONE OPTIC PEDESTAL

EXISTING PULL BOX

EXISTING UTILITY POLE

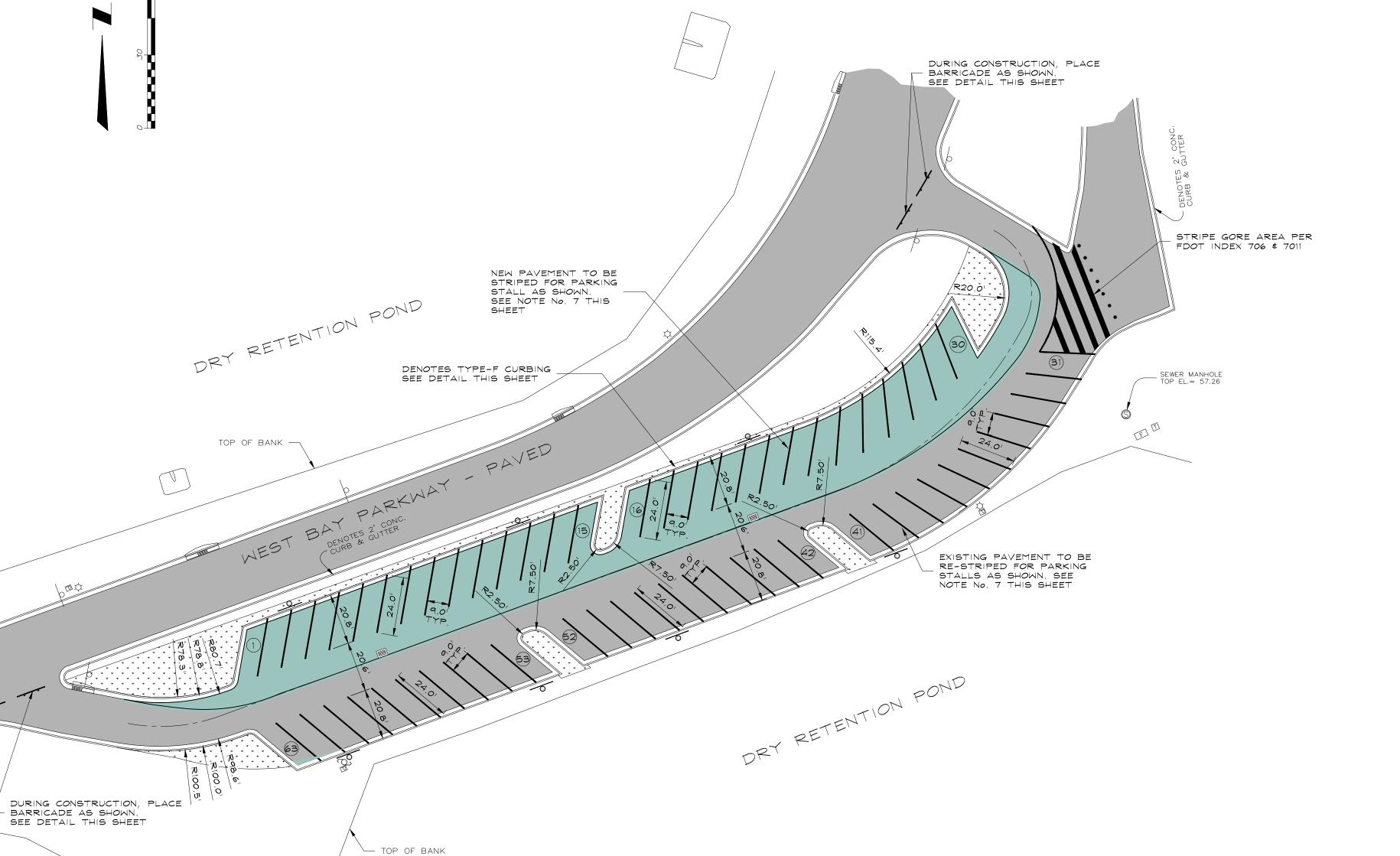
--- EXISTING GUY ANCHOR EXISTING TRAFFIC SIGN

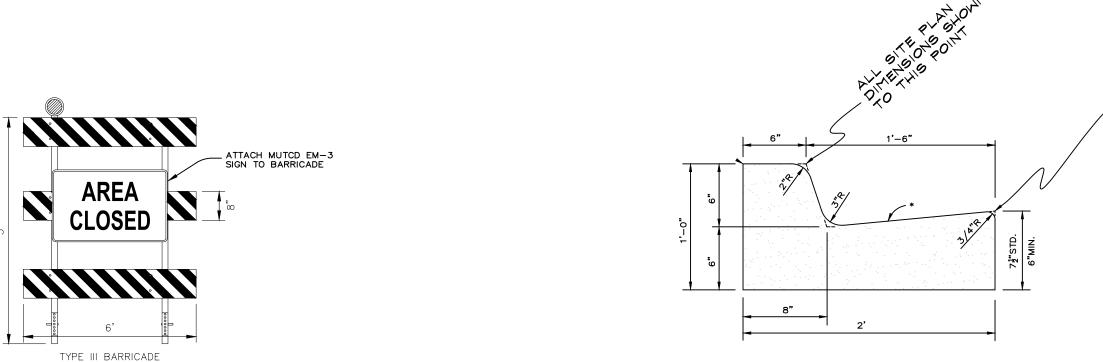
EXISTING FIRE HYDRANT

EXISTING SEWER MANHOLE

VRT. SCALE _____N/A__ ISSUE DATE NOT ISSUE







— TOP OF BANK

* REFER TO FDOT INDEX 600

TYPE III BARRICADE

WET RETENTION POND

SITE MAP NOT TO SCALE

ATTACH MUTCD EM-3 __/ To existing sign

TYPE III BARRICADE NOT TO SCALE

* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

TYPE "F" CURB & GUTTER FDOT INDEX No. 300 NOT TO SCALE

2" FDOT SP-12.5 SURFACE ASPHALTIC CONCRETE WEARING SURFACE _ 8" LIMEROCK BASE (STABILIZED TO 100 LBR MIN. COMPACTED TO 98% DENSITY AASHTO T-180) _12" SUB-BASE (STABILIZED TO 40 LBR. MIN. COMPACTED TO 98% DENSITY, AASHTO T-180)

FLEXIBLE PAVEMENT SECTION DETAIL NOT TO SCALE

EXISTING CONCRETE BOLLARD LINEAR FEET BOTTOM INVERT EXISTING MITERED END SECTION REINFORCED CONCRETE PIPE EXISTING STREET LIGHT +24.54 EXISTING SPOT ELEVATION POLYETHYLENE WATER METER 54.74 PROPOSED SPOT ELEVATION/POINT NUMBER REQUIREMENTS ADJACENT GRADE

SYMBOLS & ABBREVIATIONS

CENTERLINE

HORIZONTAL VERTICAL

NUMBER

CONCRETE SQUARE FEET

EXISTING

PROPOSED

HRZ.

EL. F.F.E. CONC. SF

LF BTTM. INV. R.C.P. SEC.

T.T.E.

EX.

MORE OR LESS

LICENSED BUSINESS

PROFESSIONAL ENGINEER

FINISHED FLOOR ELEVATION

LANDSCAPE AREA
POLYVINYL CHLORIDE
UNLESS OTHERWISE NOTED PROPOSED HANDICAP SIGN UON UNLESS OTHER'
T.O.B. TOP OF BANK √ SLOPE DIRECTION ARROW TIE IN POINT OF PROPOSED GRADE TO EXISTING GRADE TIE TO EXISTING IRRIGATION EXISTING

LINETYPE # HATCHING LEGEND PROPOSED EXISTING

SILT FENCE

— —25— — ELEVATION CONTOUR

SITE NOTES:

- 1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER.
- 2. REMOVE AND REPLACE CLAYEY SOILS IF ENCOUNTERED BELOW AREA TO BE PAVED. 3. FILL MATERIAL SHALL BE CLEAN SANDS CONTAINING NO MORE THE 10% FINER THAN THE U.S. NO. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY.
- 4. FILL SHALL BE PLACED IN 6" LIFTS. SEE FLEXIBLE PAVEMENT SECTION DETAIL FOR FILL UNDER PAVED AREAS.

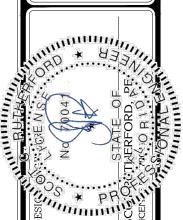
——25 ——

---- SF ----

- 5. IMPACTED AREAS THAT REQUIRE RE—INSTALLATION OF THE IRRIGATION SYSTEM WILL BE COORDINATED BY THE CONTRACTOR WITH AIRPORT MAINTENANCE WITHIN ONE WEEK FOLLOWING THEIR DISCONTINUATION OF USE TO ASSURE THAT THE IRRIGATION HAS BEEN RESTORED TO WORKING CONDITION PRIOR TO THE INSTALLATION OF SOD.
- 6. ALL DISTURBED AREAS WILL BE CUT/FILLED TO GRADE, GRADED SMOOTH AND RAKED TO BE FREE OF ORGANIC DEBRIS, ROCKS AND TRASH, AND NEW SOD WILL BE INSTALLED. ATTENTION WILL BE GIVEN TO THE GRADING TO ASSURE THAT NEW SOD
- SITS FLUSH WITH THE EXISTING SOD WHERE THE TWO MEET. 7. PARKING STALL STRIPING SHALL BE 4" WIDE, WHITE AND BE MADE WITH THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711.

NORTHWEST FLORIDA Beaches international airport





 $\bigoplus_{\text{S445 HWY 389, PANAMA CITY, FLORIDA 32405} } 5400 \text{ Ciates}$

GRADING & DRAINAGE PLAN

<u></u>

ST FLORIDA BEACHES INTERNATIONAL AIRE

ZHA, INC.

Z. SCALE AS SHOW N/A
T. SCALE AS SALE:

BARRIERS FOR FILL SLOPES

NOT TO SCALE

SEE NOTE SOD SIDE SLOPES— EROSION CONTROL BLANKET NORTH AMERICAN GREEN SC150 OR EQUAL UNDER SOD 🖯 ANCHORED WITH 6" SOD STAPLES.

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

TO TOP OF BASIN AS REQUIRED. SLOPE STABILIZATION NOTES

NOTE: PROVIDE EROSION CONTROL BLANKET FROM PROPERTY LINE OR WETLAND LINE WHERE APPLICABLE TO BACK OF CURB, BUILDING OR

PLAN

FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD. 1:3 TO 1:2 - SOD LAPPED AND PINNED. 1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD. 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

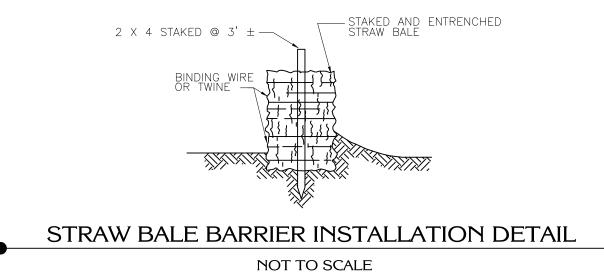
SLOPE STABILIZATION DETAIL

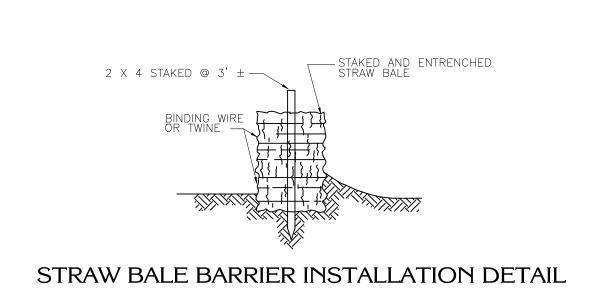
NOT TO SCALE

Woven Filter Fabric In Absence Of - Woven Filter Fabric In Absence Of Established Grass (Approx. 12' x 12'). Secure Edges By Entrenching And Extend Under Bags and Bales. Fabric Shall Meet The Requirements Of Section 985 Of The Standard Specifications. Cost Of Fabric To Be Included In The Contract Unit Price For Baled Hay Or Straw, TN. Loose Soil Placed By Shovel And Lightly Compacted Along The Upstream Edge Of Bales. PLAN 1' Min. Recommended -Anchor Bales With 2 - 2" x 2" x 4' Stakes Per Bale Anchor Lower Bales With 2-2" x 2" x 4' Stakes Per Bale. Anchor Top Bales To Lower Bales With 2-2" x 2" x 4' Stakes Per Bale. ELEVATION Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102 TYPE II TYPE I

BARRIER FOR UNPAVED DITCHES

NOT TO SCALE





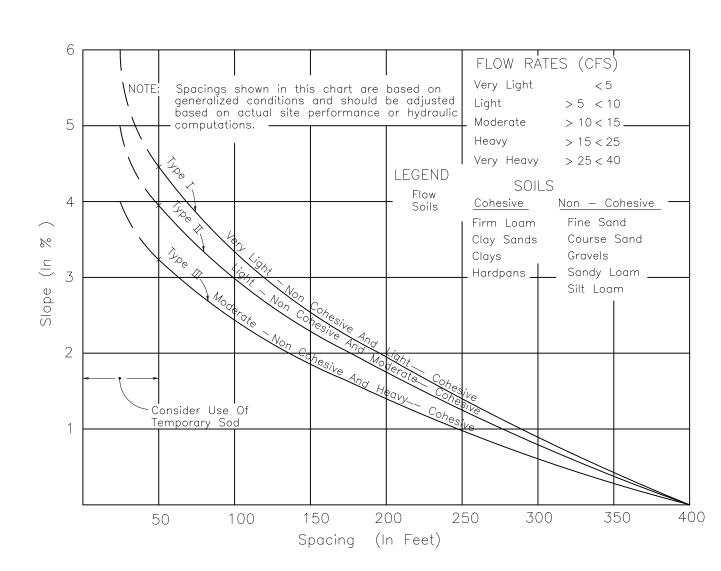
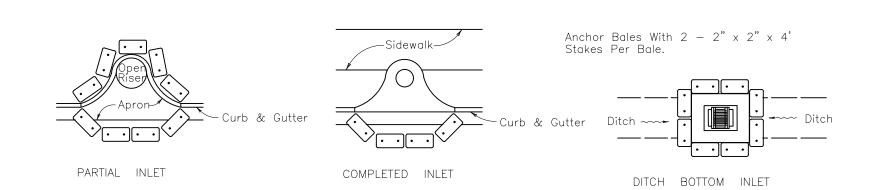
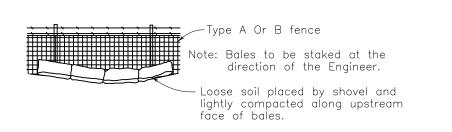


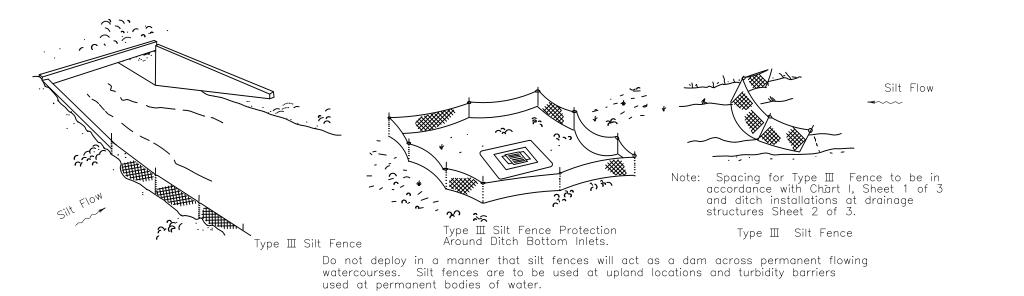
CHART I RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES NOT TO SCALE

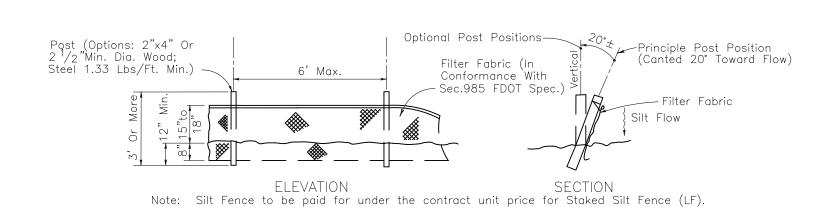


BALES BACKED BY FENCE NOT TO SCALE



SILT FENCE APPLICATIONS

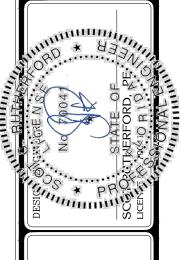
NOT TO SCALE



TYPE III SILT FENCE NOT TO SCALE

NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT







irz. scale AS SHOW VRT. SCALE _____N/A PROJECT No. ______ ISSUE DATE NOT ISSUE SHEET: C.5

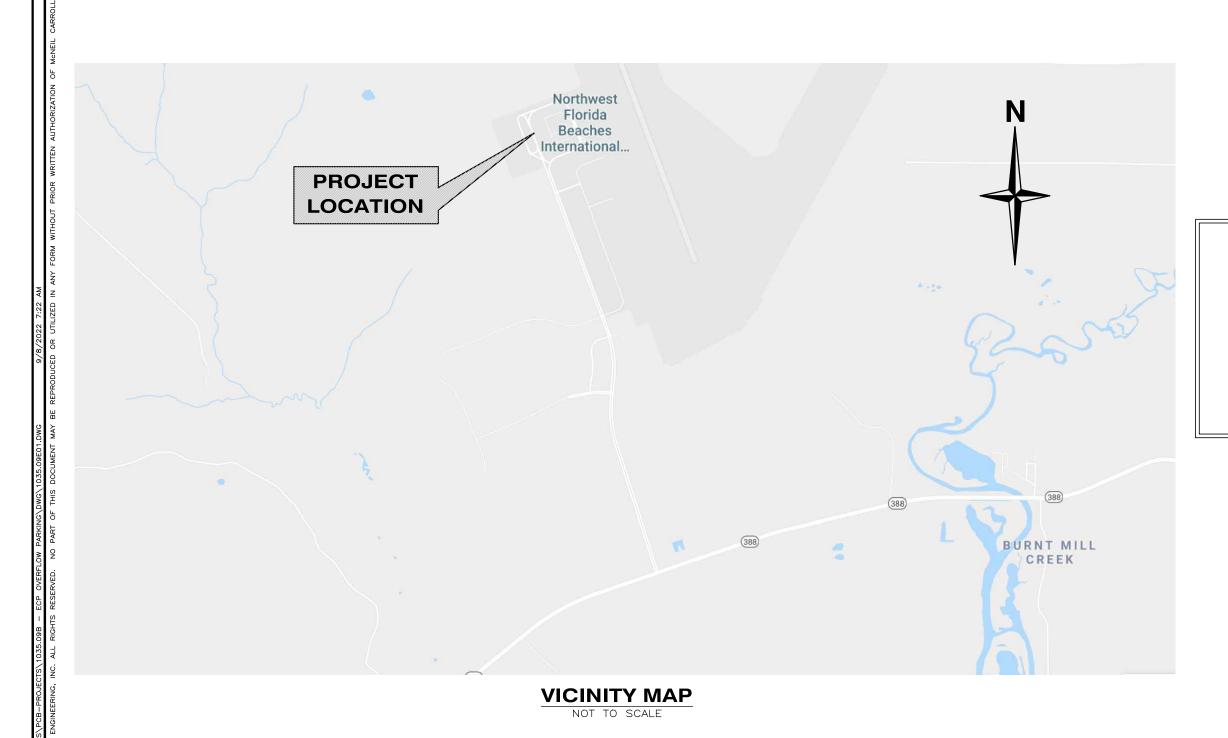
VOLUME III

NWFBIA OVERFLOW PARKING WEST BAY PARKWAY

FOR:

PANAMA CITY-BAY COUNTY AIRPORT & INDUSTRIAL DISTRICT

6300 WEST BAY PARKWAY PANAMA CITY, FLORIDA 32409



PREPARED BY:

TCNEIL

17800 Panama City Beach Parkway Panama City Beach, Florida 32413

— CARROLL

Phone: 850-234-1730

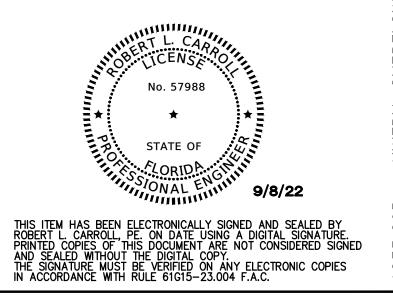
Fax: 850-234-1731

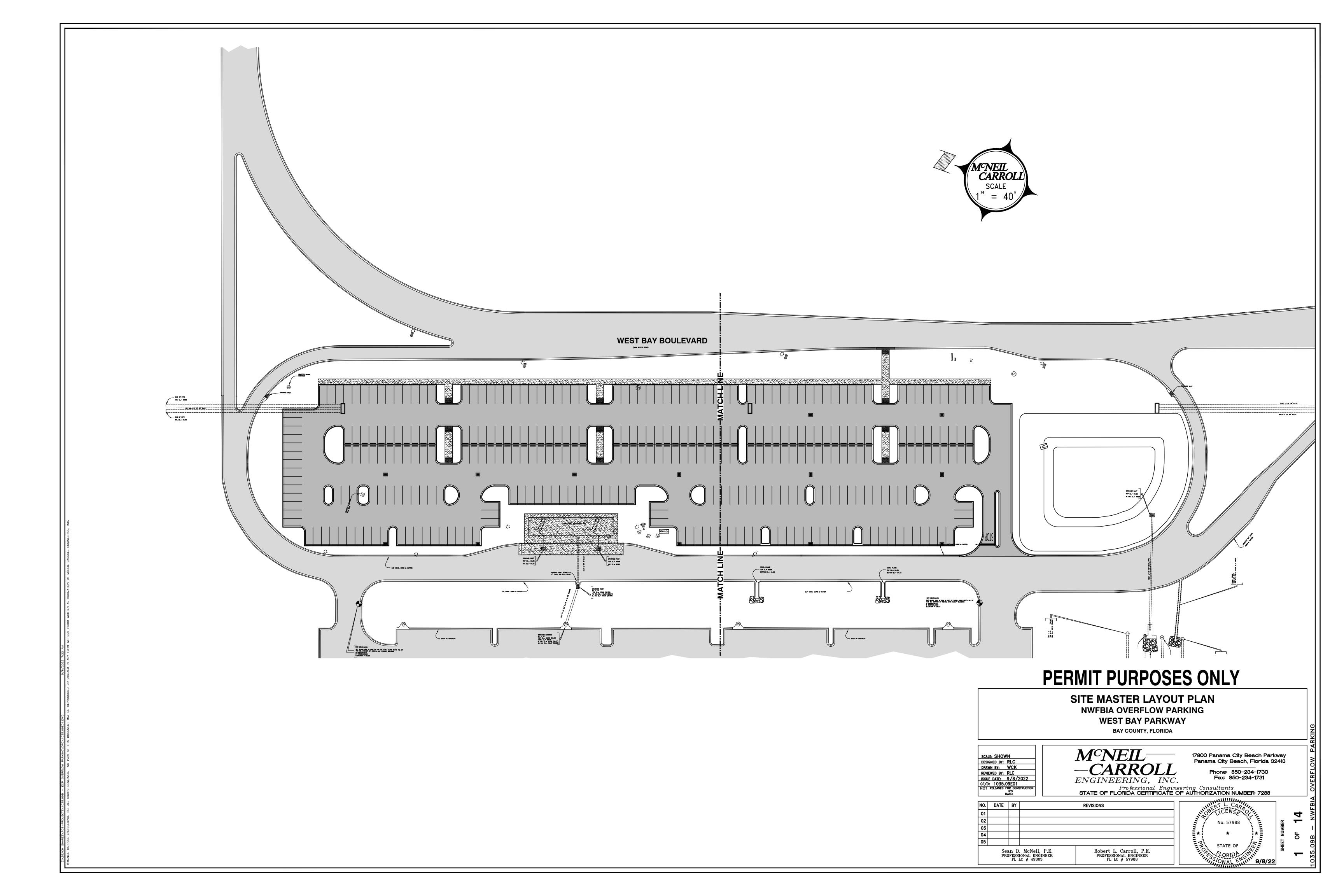
Professional Engineering Consultants

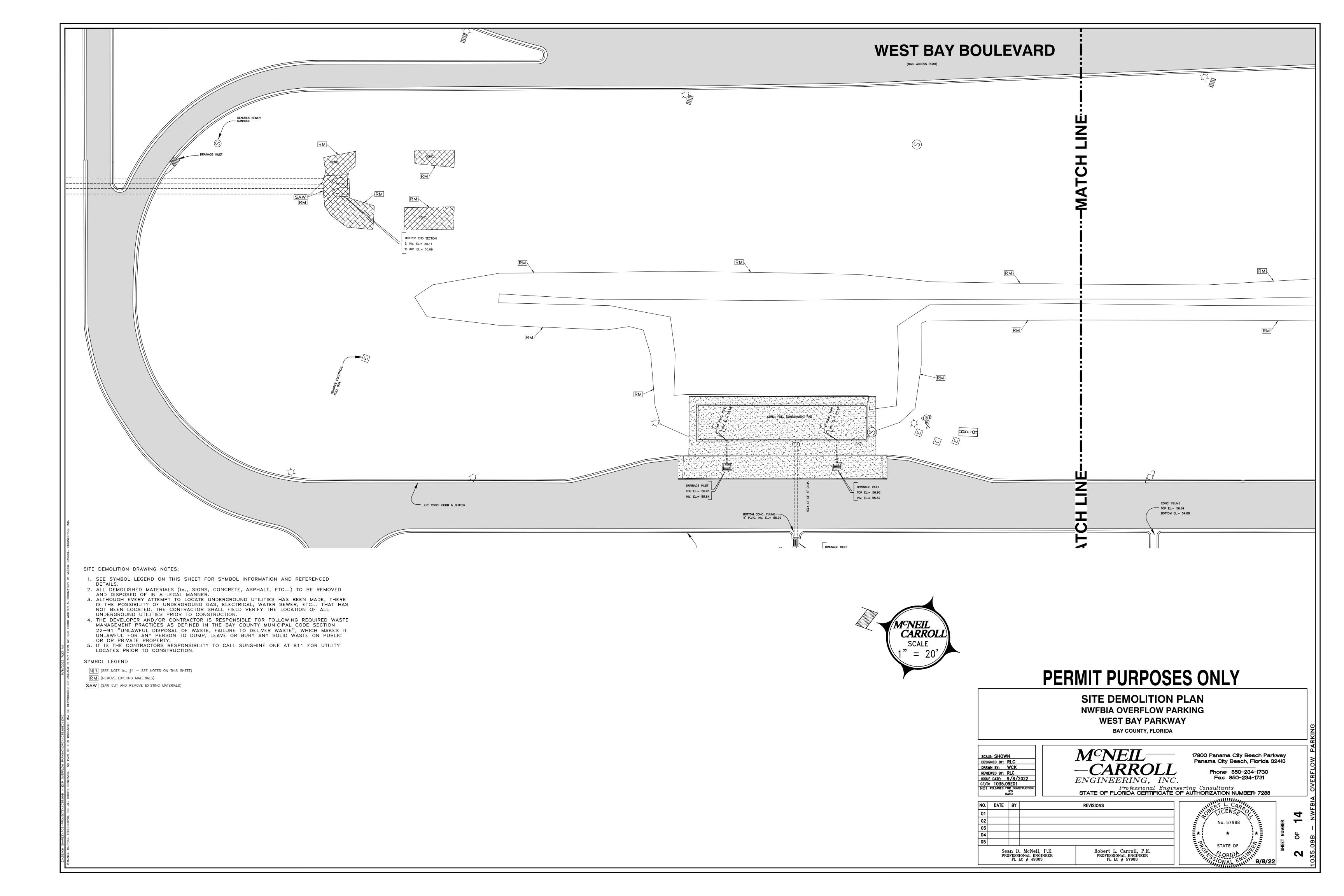
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

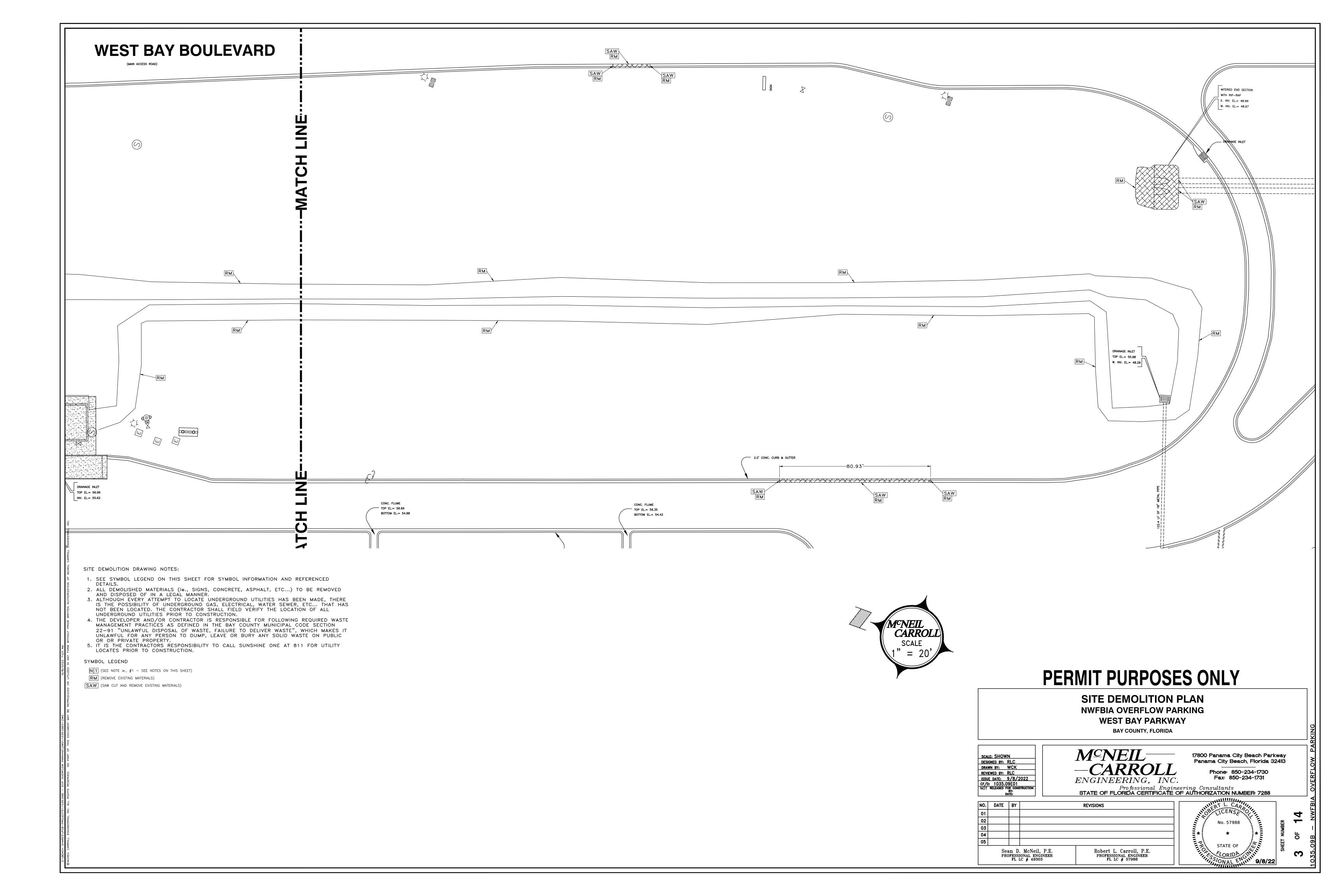
PROJECT 1035.09B

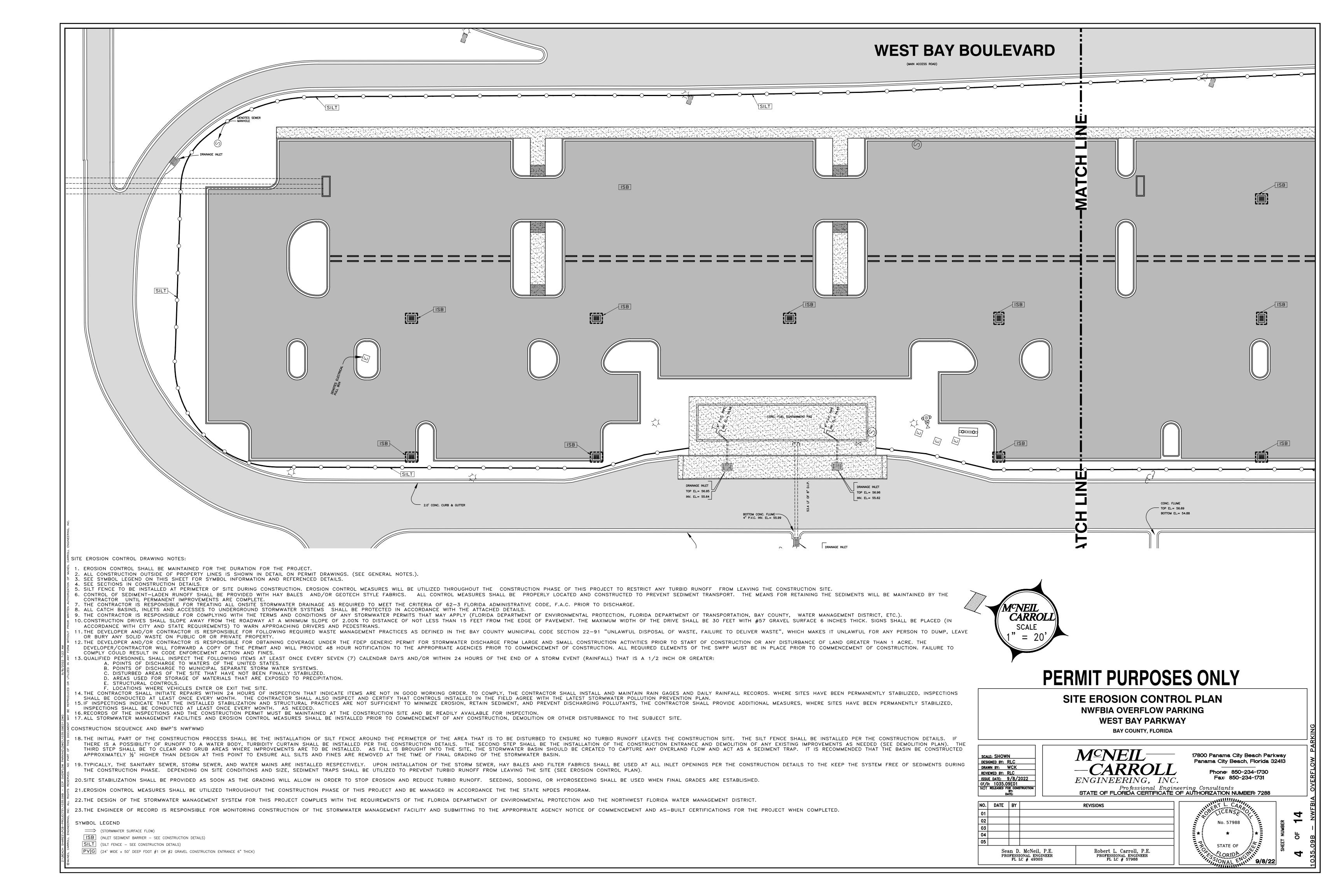
INDEX OF SHEETS	SHEETS
SURVEY	
SITE MASTER LAYOUT PLAN	1
SITE DEMOLITION PLAN	2-3
SITE EROSION CONTROL PLAN	4-5
SITE LAYOUT PLAN	6-7
SITE GRADING PLAN	8-9
SITE DRAINAGE PLAN	10-11
CONSTRUCTION DETAILS	12-14

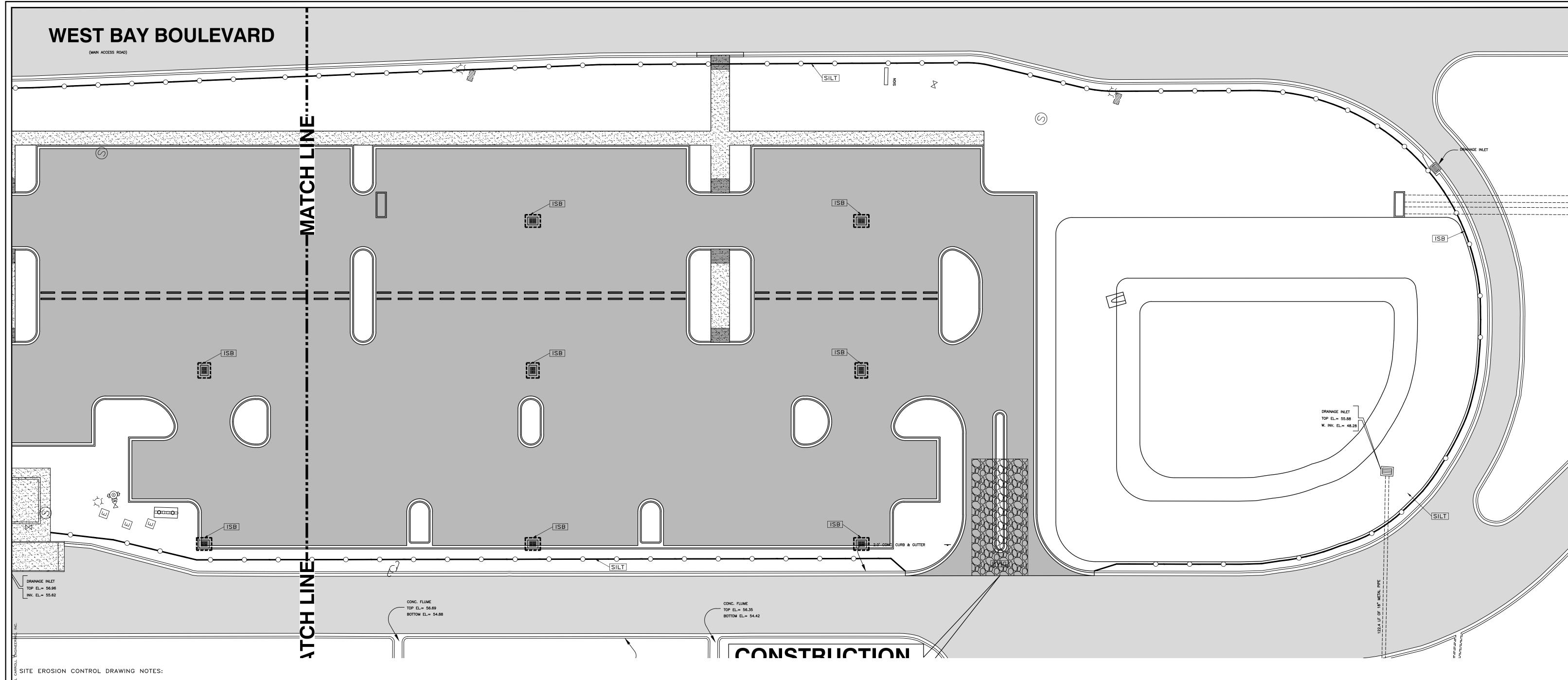












- 1. EROSION CONTROL SHALL BE MAINTAINED FOR THE DURATION FOR THE PROJECT. 2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT DRAWINGS. (SEE GENERAL NOTES.).
- 5 3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS. 4. SEE SECTIONS IN CONSTRUCTION DETAILS.
- 5. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE. 6. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE. 7. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
- 8. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS. 9. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.). 10.CONSTRUCTION DRIVES SHALL SLOPE AWAY FROM THE ROADWAY AT A MINIMUM SLOPE OF 2.00% TO DISTANCE OF NOT LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT. THE MAXIMUM WIDTH OF THE DRIVE SHALL BE 30 FEET WITH #57 GRAVEL SURFACE 6 INCHES THICK. SIGNS SHALL BE PLACED (IN
- ACCORDANCE WITH CITY AND STATE REQUIREMENTS) TO WARN APPROACHING DRIVERS AND PEDESTRIANS. 11.THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE", WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR OR PRIVATE PROPERTY. 12. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN 1 ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 48 HOUR NOTIFICATION TO THE APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO
- COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES. 13.QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM EVENT (RAINFALL) THAT IS A 1/2 INCH OR GREATER: A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
 - B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM WATER SYSTEMS.
 - . DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - E. STRUCTURAL CONTROLS. F. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

14. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE LATEST STORMWATER POLLUTION PREVENTION PLAN. 15.IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. AS NEEDED. 16. RECORDS OF THE INSPECTIONS AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

17. ALL STORMWATER MANAGEMENT FACILITIES AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, DEMOLITION OR OTHER DISTURBANCE TO THE SUBJECT SITE.

CONSTRUCTION SEQUENCE AND BMP'S NWFWMD

- 18. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORMWATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/2' HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORMWATER BASIN.
- 19. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO THE KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).

20.SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING, SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.

22.THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

23.THE ENGINEER OF RECORD IS RESPONSIBLE FOR MONITORING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY AND SUBMITTING TO THE APPROPRIATE AGENCY NOTICE OF COMMENCEMENT AND AS-BUILT CERTIFICATIONS FOR THE PROJECT WHEN COMPLETED.

SYMBOL LEGEND

⇒ (STORMWATER SURFACE FLOW)

ISB (INLET SEDIMENT BARRIER - SEE CONSTRUCTION DETAILS)

SILT (SILT FENCE - SEE CONSTRUCTION DETAILS) PVG (24' WIDE x 50' DEEP FDOT #1 OR #2 GRAVEL CONSTRUCTION ENTRANCE 6" THICK)

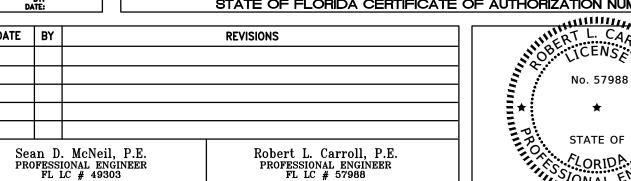
21.EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE THE THE STATE NPDES PROGRAM.

M^CNEIL-SCALE: SHOWN DESIGNED BY: RLC DRAWN BY: WCK REVIEWED BY: RLC ISSUE DATE: 9/8/2022 ENGINEERING, INC. NO. DATE BY

CARROLI

17800 Panama City Beach Parkway Panama City Beach, Florida 32413 Phone: 850-234-1730 Fax: 850-234-1731

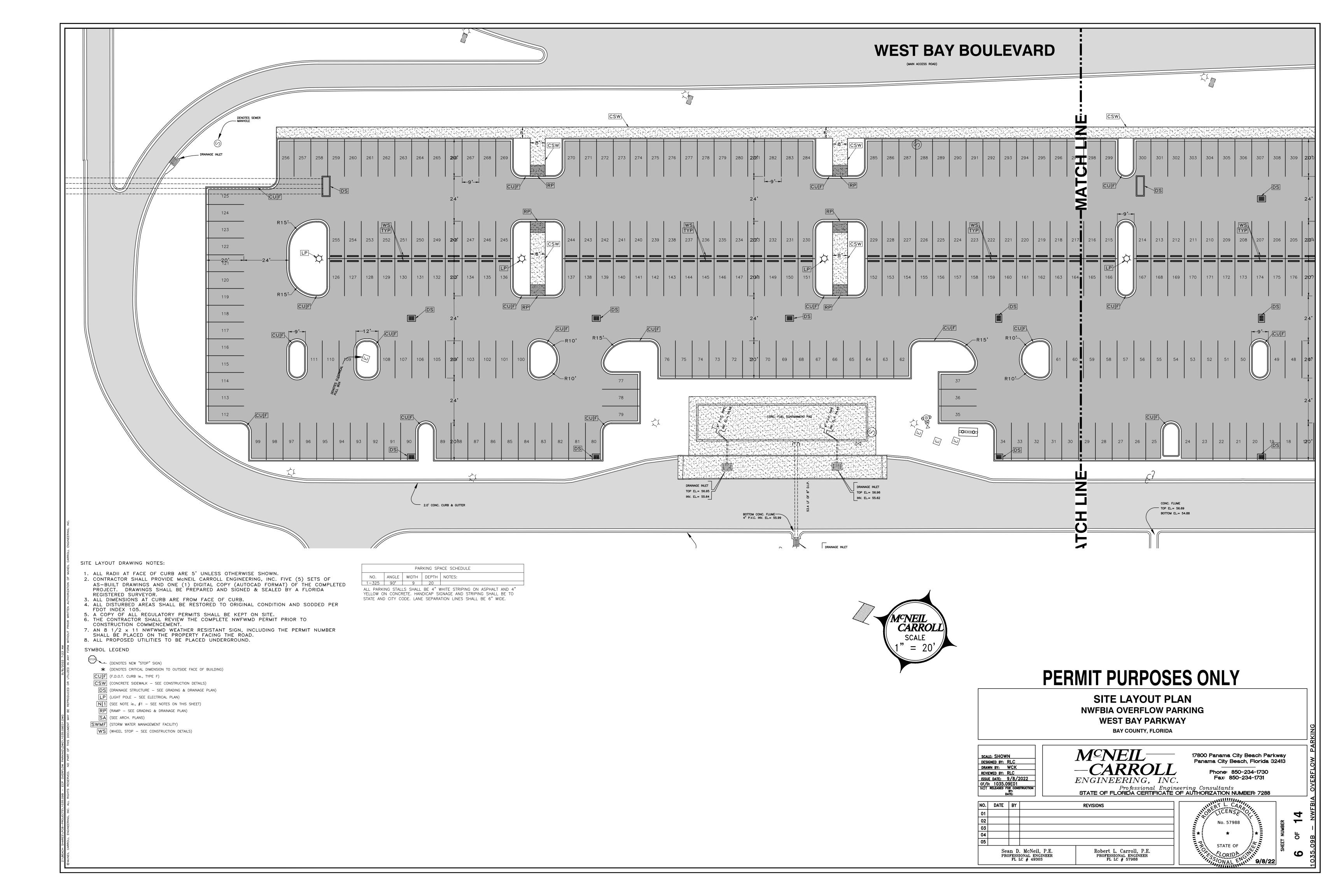
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

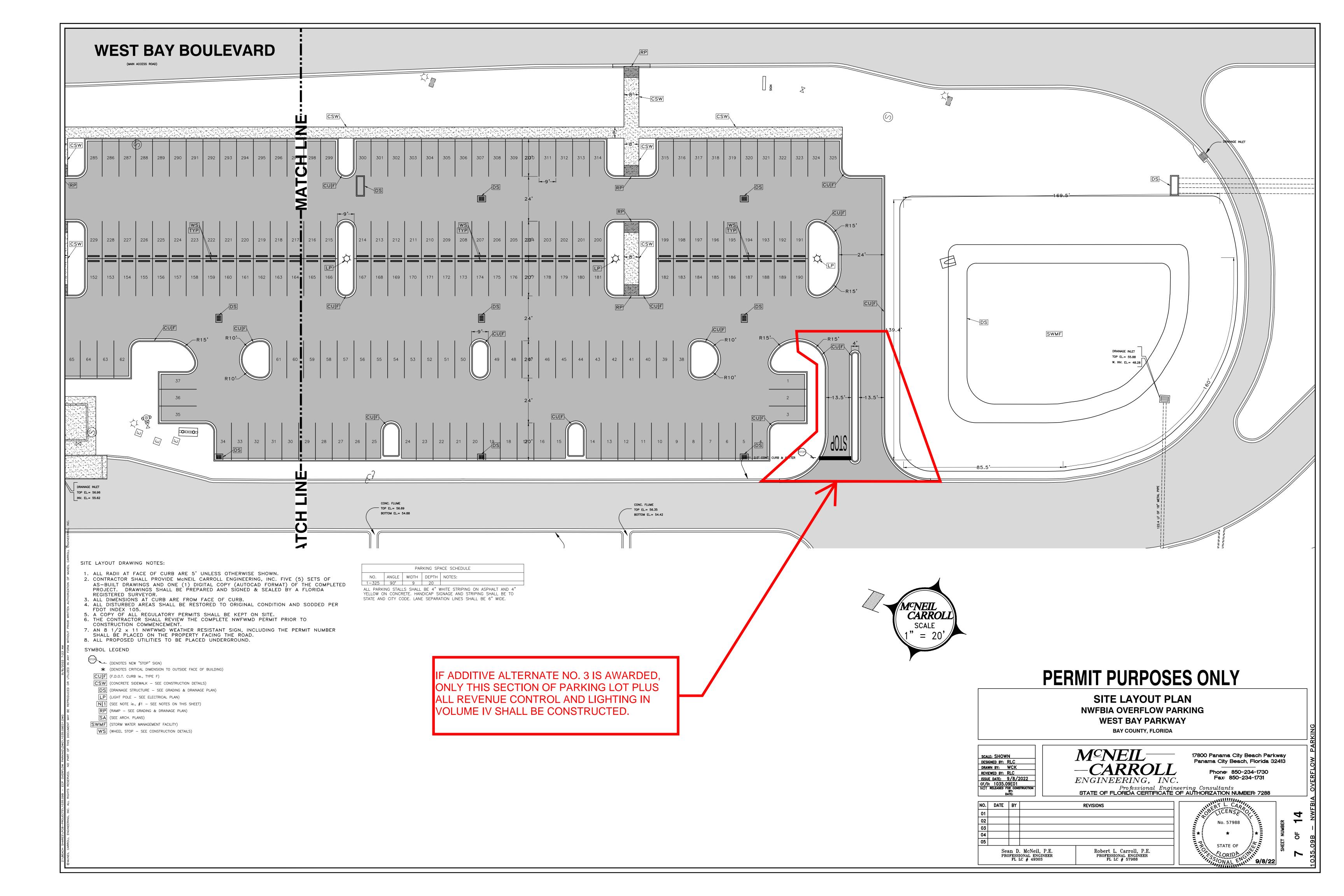


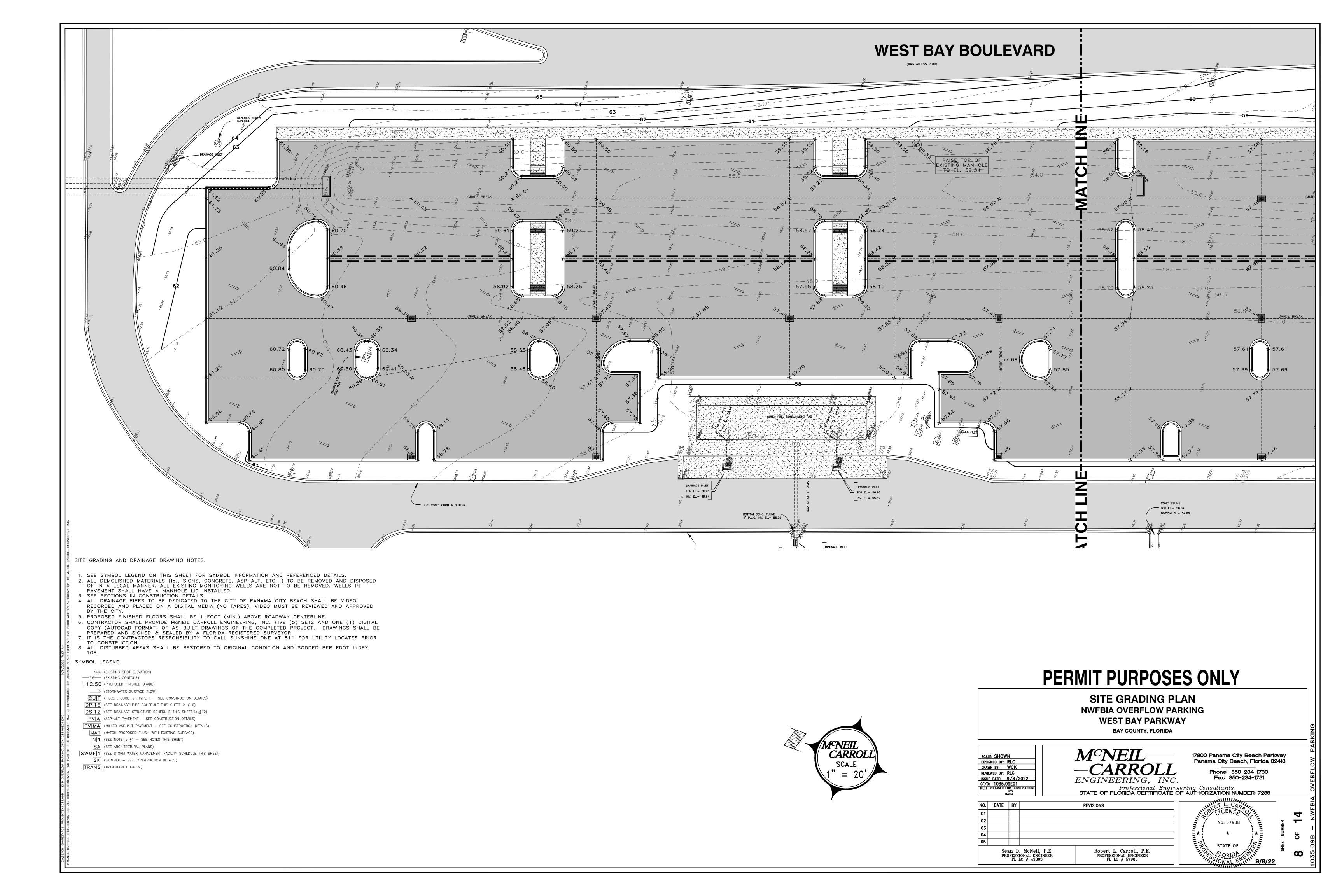
SITE EROSION CONTROL PLAN NWFBIA OVERFLOW PARKING

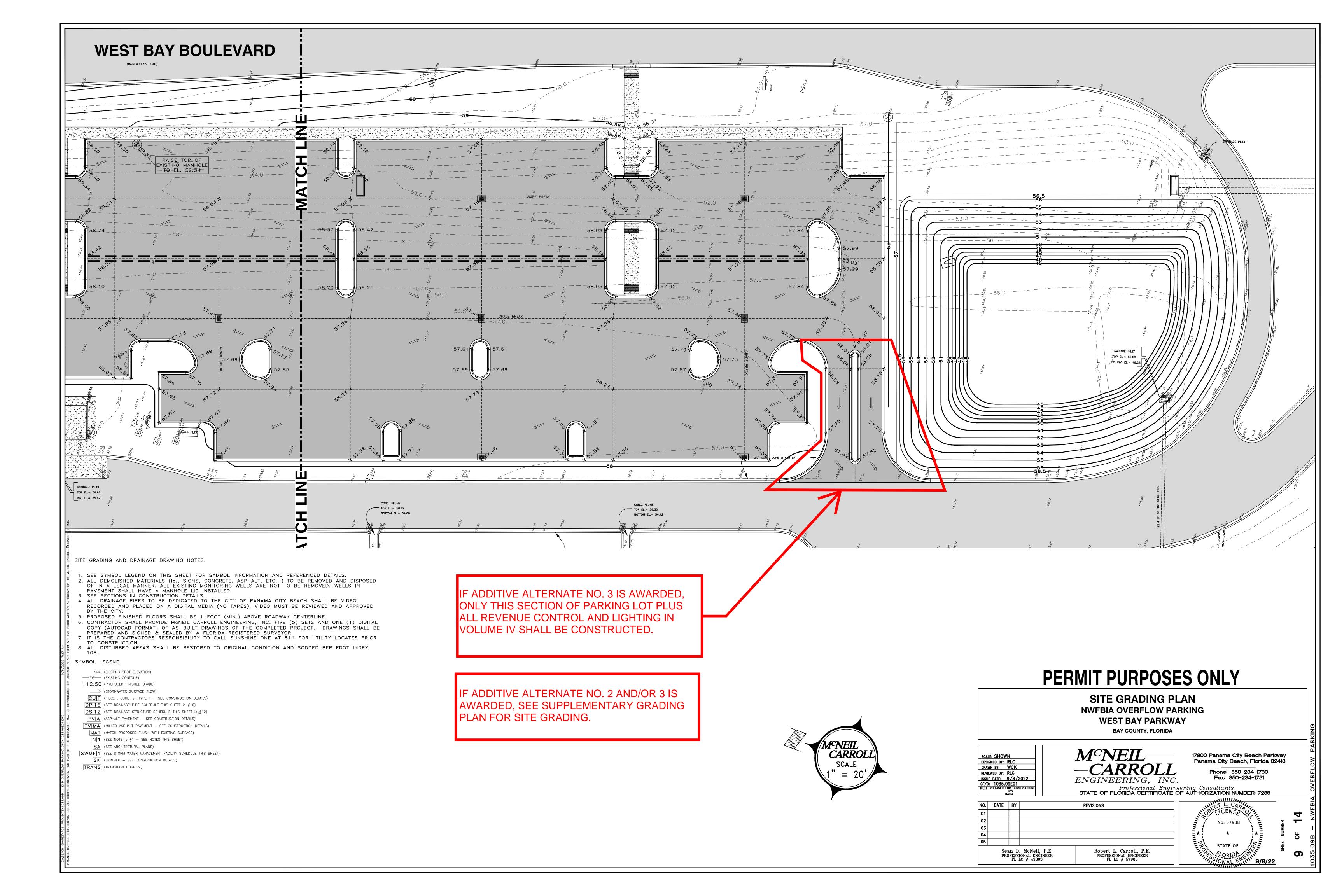
PERMIT PURPOSES ONLY

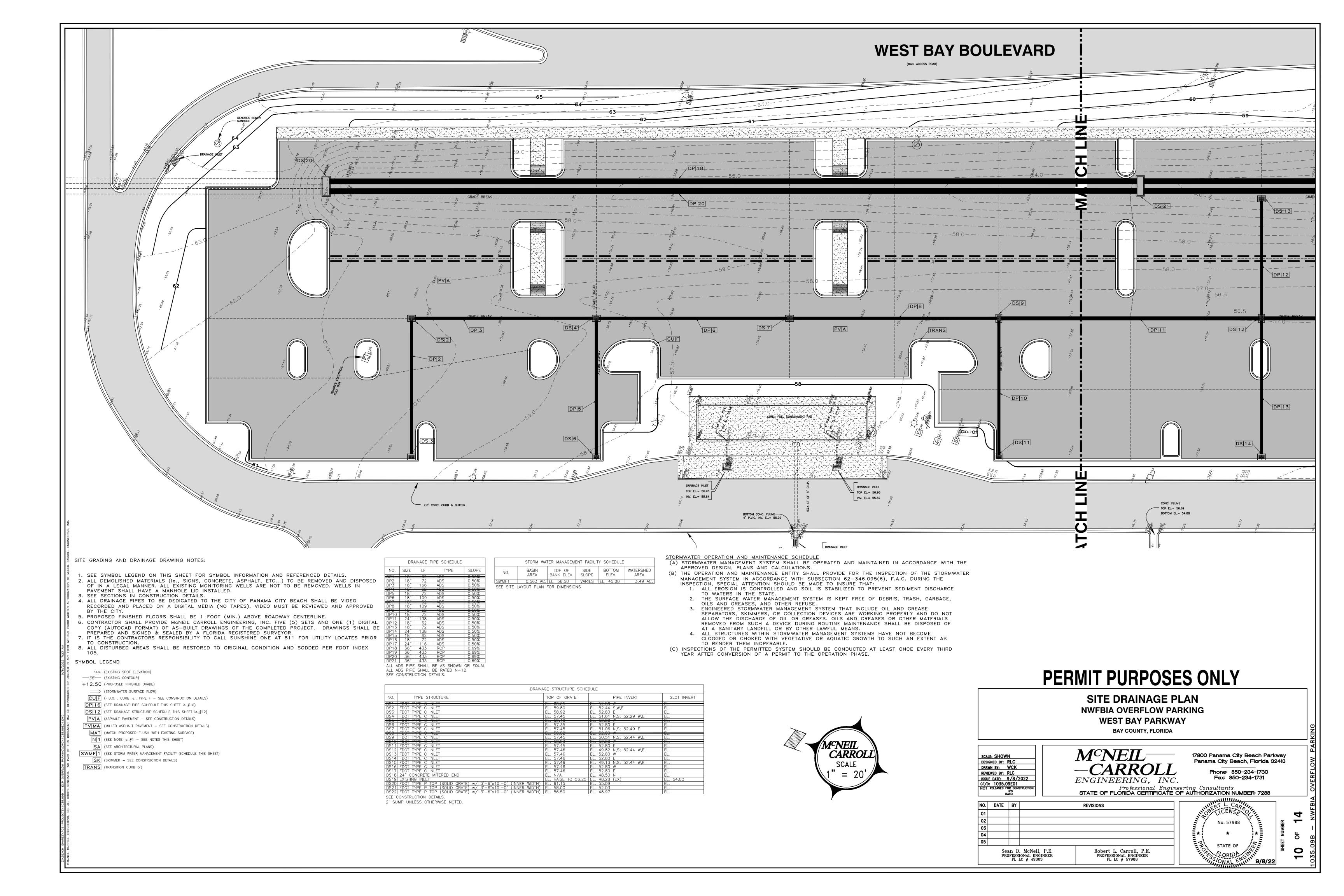
WEST BAY PARKWAY BAY COUNTY, FLORIDA

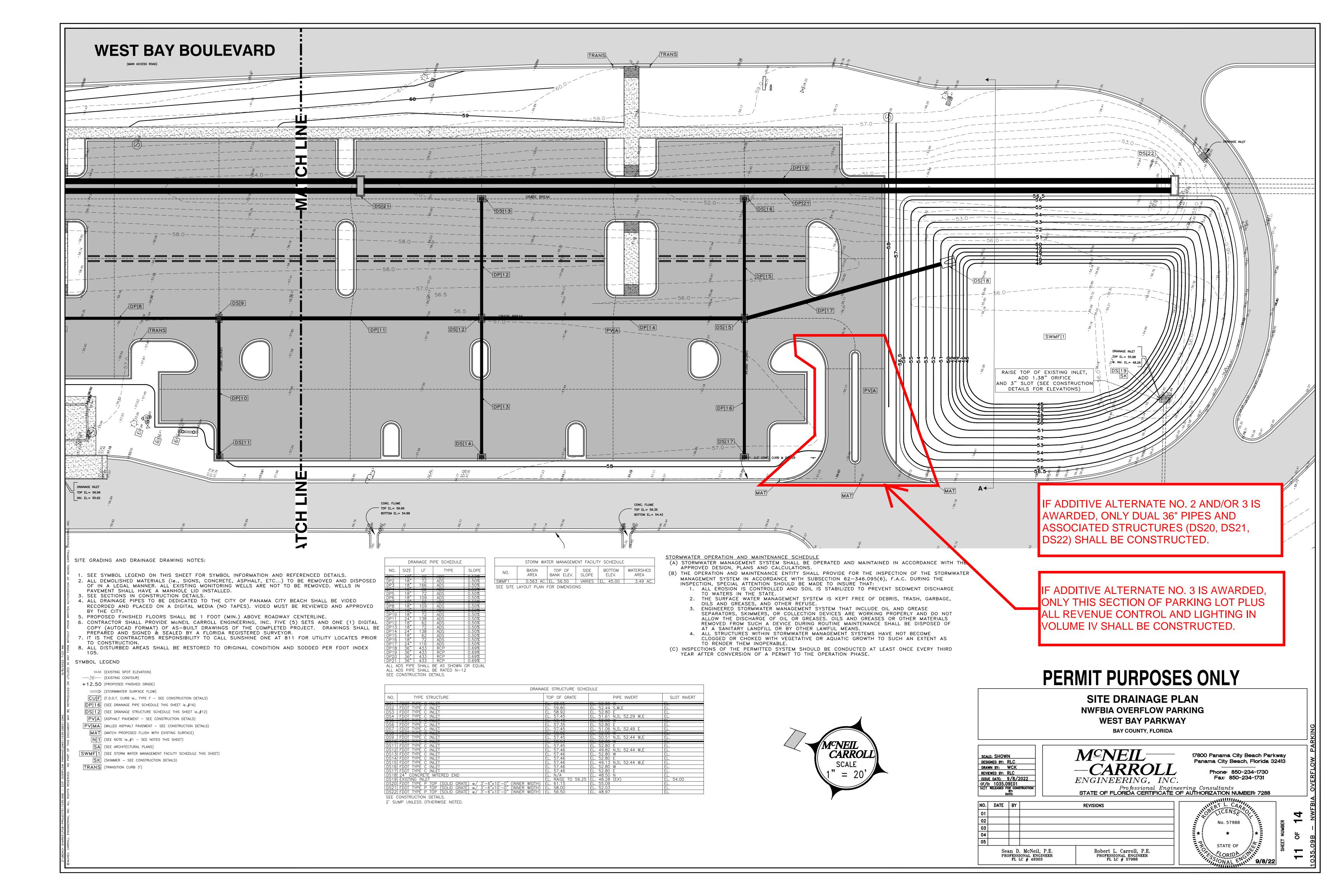












GENERAL NOTES

PREVENTION, CONTROL AND <u>ABATEMENT OF EROSION</u>

ALL ON AND OFF SITE WORK INCLUDED CONSISTS OF BUT NOT LIMITED TO THE FOLLOWING:

10.2643; SEEDING AND MULCHING OR SODDING FOR STABILIZATION. CONSTRUCTION OF SEDIMENT BASINS, CHECK DAMS OR FLOATING BARRIERS.

PLACEMENT OF SILTATION FENCES DURING THE COURSE OF CONSTRUCTION.

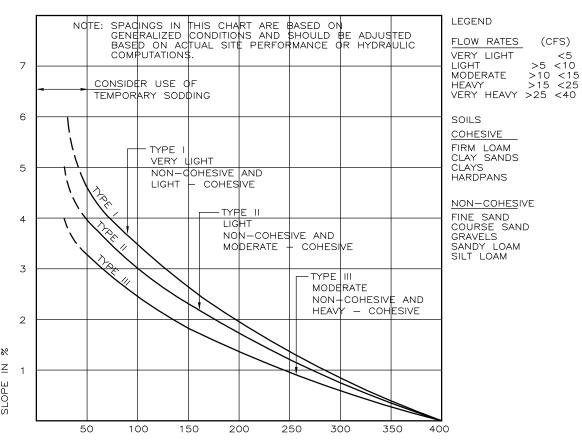
SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE

CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.

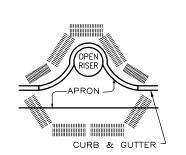
THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORM WATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C.

ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORM WATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.

THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORM WATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

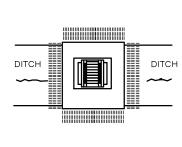


SPACING IN FEET FDOT CHART I (BALED HAY OR STRAW BARRIERS AND SILT FENCES - INDEX 102



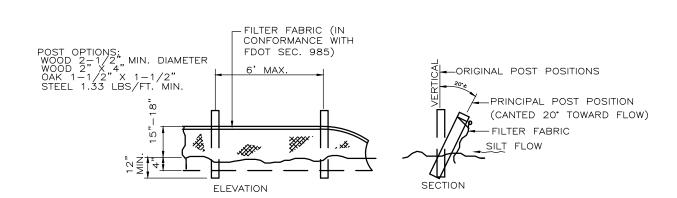
PARTIAL INLET

SILT FENCE SHALL EXTEND 4" AWAY FROM STAKES.



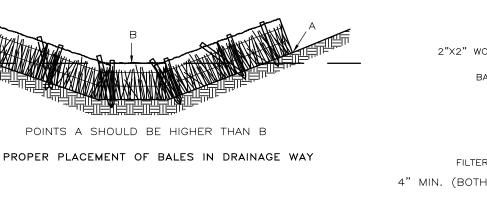
DITCH BOTTOM INLET

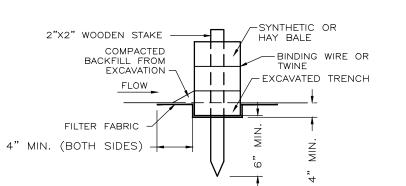
ANCHOR BALES WITH 2 - 2"X2"X4' STAKES PER BALE (SEE DETAIL) PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR THE STAKED SILT FENCE (LF.) TYPE III SILT FENCE

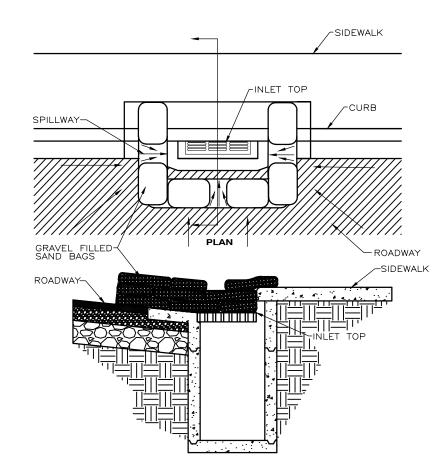
LO.315,TO.252;DO NOT DEPLOY SILT FENCES IN A MANNER THAT WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND AS TURBIDITY BARRIERS USED AT SILT FENCE SHOULD BE REPLACED EVERY SIX (6) MONTHS. SILT FENCE SHALL EXTEND A MINIMUM OF 4" BELOW GRADE.





EROSION CONTROL DETAILS

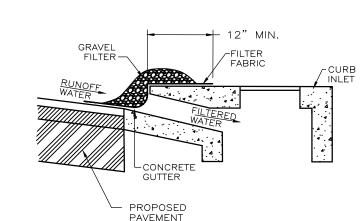
NOT TO SCALE



- 1. GRAVEL FILLED BAGS TO BE PLACED TIGHTLY TOGETHER AS TO NOT ALLOW ANY GAPS IN BETWEEN THE BAGS
- VERTICALLY AND HORIZONTALLY. 2. IF SEDIMENT IS PENETRATING BAGS, BAGS MAY NEED TO BE WRAPPED IN ADDITIONAL FILTER FABRIC.

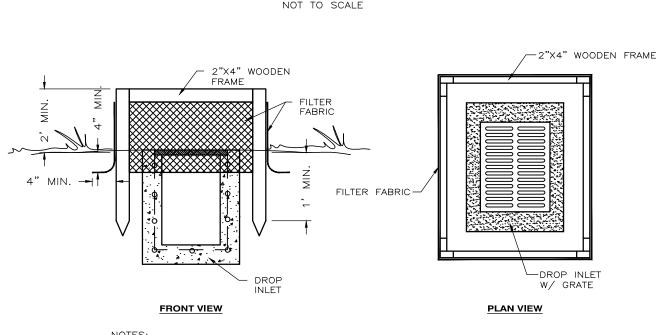
CURB INLET SEDIMENT BARRIER (OPTION 1)

NOT TO SCALE



1. GRAVEL SHALL BE #57 STONE.

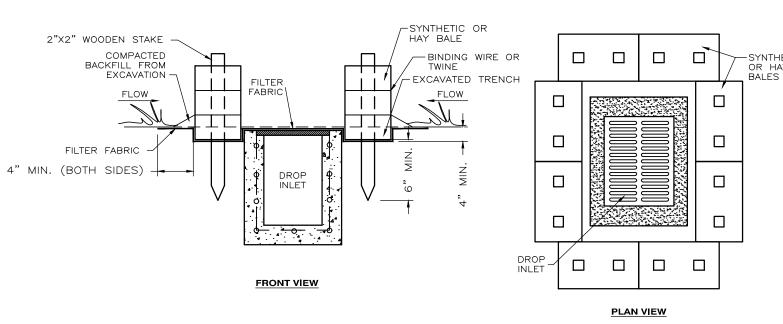
GRAVEL CURB INLET SEDIMENT FILTER



TOP FRAME REQUIRED FOR STABILITY. THIS METHOD OF INLET PROTECTION IS NOT TO BE USED IN RIGHT-OF-WAYS OR MEDIANS. 3. STAKES SHALL EXTEND 1' MIN. BELOW GRADE. 4. FILTER FABRIC SHALL EXTEND 4" MIN. BELOW GRADE AND 4" MIN. BEYOND WOODEN FRAME.

DROP INLET SEDIMENT FILTER OPTION 1

NOT TO SCALE



DROP INLET SEDIMENT FILTER OPTION 2

NOT TO SCALE

WORK IN RIGHTS-OF-WAYS

ALL WORK WITHIN RIGHTS-OF-WAYS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE RESPECTIVE AGENCIES.

THE CONTRACTOR SHALL COOPERATE WITH THE GOVERNING STATE AND LOCAL AGENCIES IN ALL PROCEDURES, MATERIALS AND METHODS OF CONSTRUCTION. ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: CONSTRUCTION OF DRIVEWAY CONNECTIONS TO EXISTING MUNICIPAL ROADWAYS AS PLACEMENT OF ABOVE OR BELOW GROUND UTILITIES AND CONNECTION TO EXISTING UTILITIES AS SHOWN ON PLANS.

SITE CLEARING AND DEMOLITION

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND NOT BEGIN UNTIL THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED AND

KEEP ALL AREAS WITHIN THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO PREVENT DUST FROM RISING DUE TO CONSTRUCTION. COMPLY WITH ALL ANTI-POLLUTION THIS SUBCONTRACTOR SHALL SEE TO IT THAT TRUCKS LEAVING THE SITE SHALL DO SO IN SUCH A MANNER THAT MUD AND EARTH WILL NOT BE DEPOSITED ON ADJACENT STREET PAVEMENTS. ANY MUD OR EARTH DEPOSITED ON STREET PAVEMENTS SHALL BE PROMPTLY

ALL CLEARING SHALL BE PERFORMED IN A MANNER SUCH AS TO PREVENT ANY WASH-OFF OF SOILS FROM THE SITE INTO STREAMS AND/OR STORM DRAINAGE SYSTEMS. APPROPRIATE SEDIMENTATION PONDS, DIKES, COLLARS, AND FILTER MEDIA SHALL BE EMPLOYED TO INSURE COMPLIANCE WITH THESE REQUIREMENTS. WHERE A SPECIFIC

STATUTE GOVERNS THESE PROCEDURES, SUCH STATUTE SHALL BE COMPLIED WITH IN IT'S TOPSOIL IS DEFINED AS FRIABLE CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF NOT LESS THAN 4". SATISFACTORY TOPSOIL IS REASONABLY FREE OF SUBSOIL, CLAY LUMPS.

STONES, AND OTHER OBJECTS OVER 2" IN DIAMETER, AND WITHOUT WEEDS, ROOTS, AND

STRIP TOPSOIL TO WHATEVER DEPTHS ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OTHER OBJECTIONABLE MATERIAL. REMOVE HEAVY GROWTHS OF GRASS FROM AREAS BEFORE STRIPPING. WHERE TREES ARE INDICATED TO BE LEFT STANDING, STOP TOPSOIL STRIPING A SUFFICIENT DISTANCE TO PREVENT DAMAGE TO MAIN ROOT SYSTEM. DISPOSE OF UNSUITABLE OR EXCESS TOPSOIL BURNING WILL NOT BE PERMITTED ON PROJECT SITE.

ALL EXISTING STRUCTURES, UTILITIES AND OTHER OBSTACLES IN CONFLICT WITH THE PROPOSED FACILITY SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. SEE OTHER UTILITY AND MISCELLANEOUS NOTES CONCERNING REMOVAL. ALLOW TESTING SERVICES TO INSPECT AND APPROVE SUBGRADE AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED. ATTENTION IS CALLED TO THE FACT THAT THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO OBTAIN LOCATIONS OF ALL EXISTING UTILITIES OR OBSTRUCTIONS WHICH HE MAY ENCOUNTER DURING CONSTRUCTION AFTER LOCATION OF UTILITIES BY THE APPROPRIATE UTILITY COMPANY, IT IS THE CONTRACTOR'S LIABILITY TO PROTECT ALL SUCH UTILITY LINES, INCLUDING SERVICE LINES AND APPURTENANCES, AND TO REPLACE AT HIS OWN EXPENSE ANY WHICH MAY BE DAMAGED BY THE CONTRACTOR'S EQUIPMENT OR FORCES DURING CONSTRUCTION.

TO PROTECT PERSON FROM INJURY AND TO AVOID PROPERTY DAMAGE, ADEQUATE BARRICADES, CONSTRUCTION SIGNS, TORCHES, RED LANTERNS AND GUARDS AS REQUIRED SHALL BE PLACED AND MAINTAINED DURING THE PROGRESS OF THE CONSTRUCTION WORK. ADEQUATE PROVISION SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION, AND THE STRUCTURES WHICH MAY HAVE BEEN DISTURBED SHALL BE SATISFACTORILY RESTORED BY THE CONTRACTOR.

EXCAVATING, FILLING AND GRADING

ALL ON AND OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

ALL ON AND OFF—SITE PREPARATION WORK FOR EXCAVATION, PIPE BED PREPARATION AND BACKFILL FOR UNDERGROUND UTILITIES. COMPACTION OF BACKFILL

REMOVAL OF ALL EXCESS OR UNUSABLE MATERIAL.

APPROVAL REQUIRED: ALL FILL MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE GEO—TECHNICAL ENGINEER. ALL ON-SITE FILL MATERIAL SHALL BE SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATTER (LESS THAN 3% BY IGNITION), AND OTHER DELETERIOUS SUBSTANCE. IT

SHALL CONTAIN NO ROCKS OR LUMPS OVER SIX (6) INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS BY DRY WEIGHT, SHALL BE LARGER THAN 2 AND 1/2 INCHES IN GREATEST DIMENSION. ALL IMPORTED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF ON-SITE FILL MATERIAL AND SHALL IN ADDITION, BE PREDOMINANTLY GRANULAR WITH A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES AND A PLASTICITY INDEX OF 12 OR LESS. ALL ON-SITE FILL MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF ARTICLE ABOVE.

ALL IMPORTED COHESIONLESS MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL BE FREE FROM ORGANIC SUBSTANCE (LESS THAN 3% BY IGNITION) AND OTHER DELETERIOUS MATTER, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. PRIOR TO ALL WORK OF THIS SECTION, CONTRACTOR IS TO BECOME THOROUGHLY FAMILIAR WITH THE SITE, THE SITE CONDITIONS, AND ALL PORTIONS OF THE WORK, FALLING WITHIN THIS SECTION. DO NOT ALLOW OR CAUSE ANY OF THE WORK PERFORMED OR INSTALLED TO BE COVERED UP OR ENCLOSED BY WORK OF THIS SECTION PRIOR TO ALL REQUIRED INSPECTIONS,

TESTS AND APPROVALS. AFTER THE WORK HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO RESTORE THE WORK TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF UNCOVERING, ALL AT NO ADDITIONAL COST TO THE OWNER.

FOR SETTING AND ESTABLISHING FINISH ELEVATIONS AND LINES, SECURE THE SERVICES OF A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR ACCEPTABLE TO THE OWNER, CAREFULLY PRESERVE ALL DATA AND ALL MONUMENTS SET BY THE CIVIL ENGINEER OR LAND SURVEYOR, AND IF DISPLACED OR LOST, IMMEDIATELY REPLACE TO THE APPROVAL OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC, NECESSARY AND INCIDENTAL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSART AND INCIDENTAL TO THE COMPLETION OF ALL EARTHWORK AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL OFF—SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: THIS WORK CONSISTS OF GRADING IN ORDER TO ACHIEVE FINISHED ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS.

ALL GRADED SURFACES SHALL BE SMOOTH AND UNIFORM, WITHOUT ABRUPT CHANGES IN SLOPE OR GRADE. AREAS TO BE COVERED WITH PAVING SHALL BE FINE GRADED TO THE REQUIRED ELEVATIONS AND SLOPES. FINISHED SURFACES IN ALL OTHER AREAS MAY VARY UP TO 0.1 FEET FROM THE REQUIRED ELEVATIONS. PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, STATE OF FLORIDA, DEPARTMENT OF

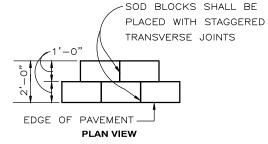
EMPLOY, AT CONTRACTOR'S EXPENSE, DESIGN LABORATORY TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. SUBMIT FOLLOWING REPORTS DIRECTLY TO ENGINEER AND COPIES TO CITY ENGINEERING DEPARTMENT FROM THE TESTING SERVICES, WITH COPY TO THE

TEST REPORTS ON BORROW MATERIAL.

FIELD DENSITY TEST REPORTS. ONE OPTIMUM MOISTURE-MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL

WHERE REQUIRED, THE SITE SHALL BE EXCAVATED TO THE GRADES COURSE, EXCAVATED MATERIAL THAT IS SUITABLE SHALL BE USED IN THE FILL SECTIONS OF THE SITE. NO SUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE. ANY EXCESS SUITABLE MATERIAL SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

EXCAVATION FOR MANHOLES, CATCH BASINS, AND OTHER ACCESSORIES SHALL BE SUFFICIENT TO LEAVE AT LEAST 12 INCHES IN THE CLEAR BETWEEN THEIR OUTER SURFACES AND THE EMBANKMENT OF TIMBER THAT MAY BE USED TO PROTECT THEM.

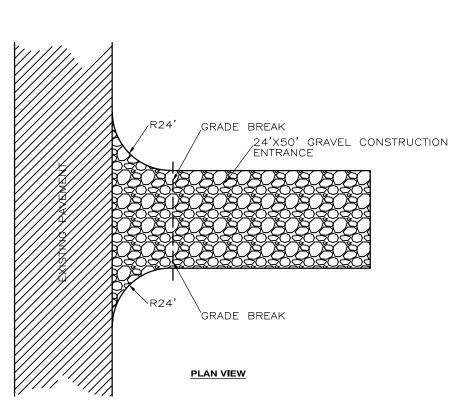


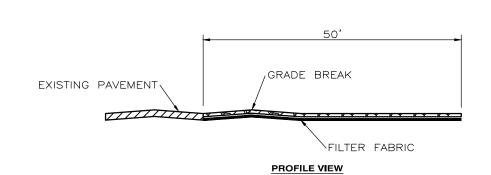
THIS WORK CONSISTS OF SODDING AREAS CLEARED DURING CONSTRUCTION AND NOT PAVED, OR AS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. ALL MATERIAL AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 570, 571, 573, OR 575 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, USE ST. AUGUSTINE GRASS (FLORATAM) SOD. THE SOD SHALL BE LIVE, FRESH AND UNINJURED AT THE TIME OF PLANTING AND SHALL HAVE A THICK MAT OF ROOTS WITH ENOUGH ADHERING SOIL TO ASSURE GROWTH. APPLY SOD WITHIN 72 HOURS OF CUTTING

PREPARE THE GROUND BY LOOSENING THE SOIL. PLACE SOD ON THE PREPARED SOIL WITH EDGES IN CLOSE CONTACT. STAGGER THE SOD PIECES SO AS TO AVOID A CONTINUOUS DOWNHILL SEAM. TAMP THE OUTER EDGES OF THE SODDED AREA TO PRODUCE A SMOOTH CONTOUR.

KEEP SOD CONTINUOUSLY MOIST TO A DEPTH BELOW THE ROOT ZONE FOR THREE WEEKS

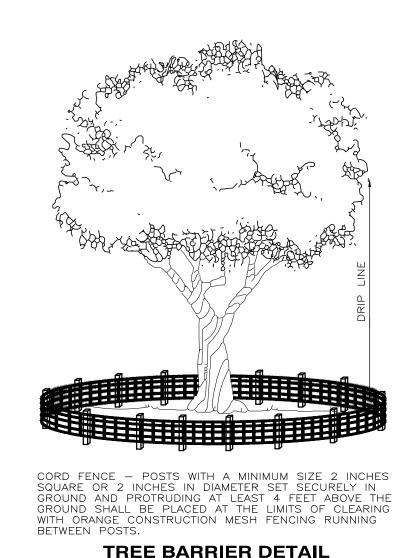
SODDING DETAIL





- 1. GRAVEL CONSTRUCTION ENTRANCE SHALL BE 24' WIDE AND 50'
- 2. CONSTRUCTION ENTRANCE SHALL BE 6" OF #57 STONE OVERLAYING FILTER FABRIC.
- 3. ALGEBRAIC DIFFERENCE OF SLOPE FROM EXISTING ROAD AND SLOPE FROM EDGE OF PAVEMENT TO GRADE BREAK SHALL NOT EXCEED
- 4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO
- 5. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE HAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.

CONSTRUCTION ENTRANCE DETAIL



NOT TO SCALE

SEEDING RATE ZONES

SEEDING RATES (LBS/AC)							
	ZONE	E 1		ZONE II			
COA	ASTAL	INL	AND	COAS	TAL	INLAND	
MAR. TO NOV.	NOV. TO MAR.	MAR. TO OCT.	OCT. TO MAR.	FEB. TO DEC.	DEC. TO FEB.	FEB. TO DEC.	DEC. TO FEB.
15	15	10	15	15	15	10	15
		30	30			30	30
20		20		20		20	
	20		20		20		20
35	35	60	65	35	35	60	65
	MAR. TO NOV.	ZONE COASTAL MAR. NOV. TO NOV. HAR. 15 15 20 20	ZONE I COASTAL INLA MAR. NOV. MAR. TO TO TO OCT. 15 15 10 30 20 20	ZONE	ZONE	ZONE ZONE ZONE	ZONE ZONE

THE SEEDING RATES SHOWN IN THIS TABLE APPLY ONLY WHEN SEED IS SPREAD BY AN APPROVED MECHANICAL SPREADER MEETING THE REQUIREMENTS OF SECTION 570 AND 577 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES

- 1. SPECIAL ATTENTION IS TO BE DIRECTED TO THE CONSTRUCTION OF THE REQUIRED 1" DROP-OFF AT EDGE OF PAVEMENT.
- 2. FERTILIZE ENTIRE UNPAVED SHOULDER AND FRONT SLOPE TO TOE OF SLOPE OR BOTTOM OF DITCH.
- 3. TOPSOIL OBTAINED FROM BORROW PITS OR OTHER SOURCES MAY BE USED IN LIEU OF EXCAVATED TURF AND TOPSOIL WHEN ECONOMICALLY FEASIBLE. NO ADDITIONAL

PAYMENT WILL BE MADE FOR SUBSTITUTING TOPSOIL FOR EXCAVATED TURF OR TOPSOIL: IF THE QUANTITY OF EXISTING STORED OR EXCAVATED TOPSOIL IS INADEQUATE FOR PLANTING, SUFFICIENT ADDITIONAL TOPSOIL SHALL BE FURNISHED. TOPSOIL FURNISHED SHALL BE A NATURAL, FERTILE, FRIABLE SOIL, POSSESSING CHARACTERISTICS OF REPRESENTATIVE PRODUCTIVE SOILS IN THE VICINITY. IT SHALL BE OBTAINED FROM

NATURALLY WELL-DRAINED AREAS. TOPSOIL SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND FREE FROM JOHNSON GRASS (SORGHUM HALEPENSE), NUT GRASS (CYPERUS ROTUNDUS) AND OBJECTIONABLE WEEDS

GROUND LIMESTONE (DOLOMITE) CONTAINING NOT LESS THAN 85 PERCENT OF TOTAL CARBONATES, AND SHALL BE GROUND TO SUCH A FINENESS THAT 50 PERCENT WILL PASS A 100—MESH SIEVE AND 90 PERCENT WILL PASS A 20—MESH SIEVE. 6-16-16 FORMULATION OF WHICH 60 PERCENT OF THE NITROGEN IS IN THE UREA—FORMALDEHYDE FORM AND SHALL CONFORM TO THE APPLICABLE STATE FERTILIZER LAWS. IT SHALL BE GRANULATED SO THAT 80 PERCENT IS HELD ON A 16—MESH SCREEN, UNIFORM IN COMPOSITION, DRY AND FREE—FLOWING. MULCH: CLEAN HAY OR FREE

AREAS TO BE GRASSED SHALL BE GRADED TO REMOVE DEPRESSIONS, UNDULATIONS, AND IRREGULARITIES IN THE SURFACE BEFORE GRASSING. PLACING TOPSOIL: AREAS TO BE GRASSED SHALL HAVE A MINIMUM TOPSOIL OVER OF TWO INCHES. TOPSOIL SHALL NOT BE PLACED WHEN THE SUBGRADE IS EXCESSIVELY WET, EXTREMELY DRY OR IN A CONDITION OTHERWISE DETRIMENTAL TO THE PROPOSED PLANTING

TILLAGE: THE AREA TO BE GRASSED SHALL BE THOROUGHLY TILLED TO A DEPTH OF FOUR INCHES USING A PLOW AND DISC HARROW OR ROTARY TILLING MACHINERY UNTIL

PER 1,000 SQUARE FEET AND SHALL BE THOROUGHLY INCORPORATED INTO THE TOP

SUITABLE BED HAS BEEN PREPARED AND NO CLODS OR CLUMPS REMAIN LARGER THAN

1-1/2 INCHES IN DIAMETER. APPLICATION OF LIME: THE PH OF THE SOIL SHALL BE DETERMINED. IF THE PH IS BELOW 5.0, SUFFICIENT LIME SHALL BE ADDED TO PROVIDE A PH BETWEEN 5.5 AND 6.5. THE LIME SHALL BE THOROUGHLY INCORPORATED INTO THE TOP THREE TO FOUR INCHES

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AS SPECIFIED HEREIN. IMMEDIATELY BEFORE SEEDS ARE SOWN AND AFTER FERTILIZER AND LIME ARE APPLIED, THE GROUND SHALL BE SCARIFIED AS NECESSARY AND SHALL BE RAKED UNTIL HE SURFACE IS SMOOTH, FRIABLE, AND OF UNIFORMLY FINE TEXTURE. AREAS TO BE GRASSED SHALL BE SEEDED EVENLY WITH A MECHANICAL SPREADER, RAKED LIGHTLY, ROLLED WITH A

200-POUND ROLLER, AND WATERED WITH A FINE SPRAY. SEEDS SHALL BE APPLIED AT THE FOLLOWING RATE:

SEEDS RATE OF APPLICATION

BERMUDA 6 LBS./1000 SQ.FT.

SEEDED AREAS SHALL BE MULCHED AT THE RATE OF NOT LESS THAN 1-1/2" LOOSE MEASUREMENT OVER ALL SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT. MULCH SHALL BE CUT INTO THE SOIL WITH EQUIPMENT CAPABLE OF CUTTING THE MULCH UNIFORMLY INTO THE SOIL. MULCHING SHALL BE DONE WITHIN 24 OURS OF THE TIME SEEDING IS COMPLETED.

AFTER SEEDING AND MULCHING, A CULTIPACKER, TRAFFIC ROLLER, OR OTHER SUITABLE EQUIPMENT SHALL BE USED FOR ROLLING THE GRASSED AREAS. AREAS SHALL THEN BE WATERED WITHIN A FINE SPRAY.

ALL AREAS TO BE GRASSED SHALL BE PROTECTED AGAINST EROSION AT ALL TIMES. FOR PROTECTION DURING WINTER MONTHS (NOVEMBER 1ST THRU MARCH 31ST) ITALIAN RYE GRASS SHALL BE PLANTED AT A RATE OF FOUR POUNDS PER 1,000 SQUARE FEET ON ALL AREAS WHICH ARE NOT PROTECTED BY PERMANENT GRASS.

SEEDING DETAIL NOT TO SCALE

PERMIT PURPOSES ONLY

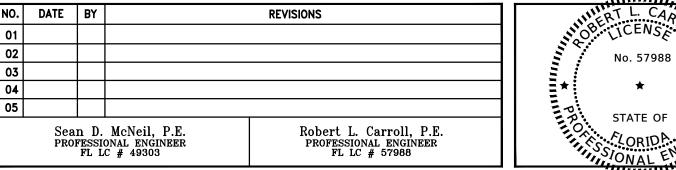
CONSTRUCTION DETAILS NWFBIA OVERFLOW PARKING **WEST BAY PARKWAY** BAY COUNTY, FLORIDA



17800 Panama City Beach Parkway Panama City Beach, Florida 32413 Phone: 850-234-1730 Fax: 850-234-1731

9/8/22

Professional Engineering Consultants STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288



SITE DRAINAGE

ALL OFF-SITE AND ON-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

EXCAVATION, BEDDING, FILTER MATERIAL AND BACKFILL FOR ALL STORM SEWER, SUBSURFACE DRAINS AND DRAINAGE STRUCTURES.

INSTALLATION OF ALL STORM SEWER, SUBSURFACE DRAINS, CATCH BASINS, JUNCTION BOXES, MANHOLES, ETC., INCLUDING ALL RELATED FITTINGS, JOINTS COVERS, GRATES, FRAMES,

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL OF THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED. POLYVINYL CHLORIDE (PVC), FOR PIPE UP TO AND INCLUDING TEN INCHES (10") IN DIAMETER, SHALL CONFORM TO ASTM D3034 SDR 35 WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM

REINFORCED CONCRETE PIPE, FOR PIPE TWELVE INCHES (12") IN DIAMETER AND UP, SHALL CONFORM TO ASTM C-76, CLASS IV OR AASHTO M-170 WITH BELL AND SPIGOT OR TONGUE AND GROOVE COMPRESSION JOINT CONFORMING TO ASTM C-443.

REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C478 OR AASHTO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS.

BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM.

CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS CONFORMING TO ASTM C-139.

MANHOLES, CATCH BASINS, ETC. SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:

IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED

SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THE MAY BE PLAINLY VISIBLE.

CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC. NEENAH FOUNDRY COMPANY, VULCAN FOUNDRY COMPANY OR EQUAL.

MANHOLE STEPS FOR BRICK OR CONCRETE MASONRY STRUCTURES SHALL BE CAST IRON ASPHALT COATED, NEENAH FOUNDRY COMPANY "R-1980-E" OR EQUAL.

CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING

PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II.

FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10 TO 30% PASSING NO. 50 SIEVE. HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.

ALL MATERIAL USED FOR CONCRETE AND THE DESIGN OF ALL CONCRETE MIXES SHALL CONFORM WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 211.1-81).

ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

RIP RAP SHALL BE SOUND, TOUGH DURABLE ROCK OR BROKEN CONCRETE AS APPROVED BY THE GEOTECHNICAL ENGINEER. RIP RAP SHALL BE AT LEAST EIGHT INCH (8") IN ONE DIMENSION AN SHALL HAVE A VOLUME OF NOT LESS THAN J1/3 CUBIC FOOT. SMALLER PIECES PERMITTED FOR FILLING VOIDS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM DESIGNATION A185 FOR SMOOTH WIRE AND ASTM A497 FOR DEFORMED WIRE.

FORMS FOR FOUNDATIONS AND OTHER CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE OF SUFFICIENT STRENGTH TO PREVENT DEFORMATION UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS PERMIT. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318-77. WELDED WIRE MESH SHALL BE LAPPED 6-INCHES AT ALL EDGES.

THE MIXING, PLACING, CURING AND FINISHING OF CONCRETE SHALL COMPLY WITH ACI 304 AND ACI 318. ALL EXPOSED SURFACES SHALL BE GIVEN A HARD STEEL TROWEL FINISH WITH NO TROWEL MARKS REMAINING. NO CEMENT SHALL BE DUSTED ON THE SURFACE. ALL CONCRETE SHALL BE CURED BY COATING WITH A CLEAR CURING NO CEMENT CONFORMING TO ASTM C-304, OR BY KEEPING IT WET FOR AT LEAST SIX DAYS AFTER POURING. AFTER THE FORMS ARE STRIPPED, ALL EXPOSED CONCRETE SURFACES SHALL BE POINTED AS NEEDED AND RUBBED TO A UNIFORM FINISH. CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF

CONCRETE FILL BELOW GRADE FOR PIPE CRADLES ETC. MAY BE 2500 PSI AT 28 DAYS.

CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% + 1%. ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS. READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.

CEMENT MORTAR SHALL BE AS SPECIFIED HEREINAFTER. USE METHODS OF MIXING MORTAR MATERIALS CAN BE CONTROLLED AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN SATISFACTORY WORKABILITY. RETEMPERING OF MORTAR IS NOT PERMITTED.

MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME. MORTAR FOR PARGING SHALL CONSISTS OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND.

MORTAR FOR GROUTING OF RIP RAP SHALL CONSIST OF ONE PART PORTLAND CEMENT AND THREE PARTS SAND. STORM WATER SEWERS: STORM SEWERS SHALL BE INSTALLED IN LOCATIONS AND OF SIZES INDICATED ON DRAWING.

LAY PIPE, EMBED IT FIRMLY TO REQUIRED LINE AND GRADE WITH BELLS OF GROOVE END UP-GRADE. FIT ENDS TOGETHER, EXCAVATE BELL HOLES SO THAT SEWER WILL HAVE SMOOTH AND UNIFORM INVERT THROUGHOUT ITS LENGTH. CORRUGATED METAL PIPE SHALL BE PLACED ON A FLAT BOTTOM TRENCH WITH HAUNCHES SOLIDLY SUPPORTED BY TAMPED BEDDING MATERIAL.

WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CONCRETE CRADLES. DEPOSIT CONCRETE FULL WIDTH OF TRENCH 4" DEEP MINIMUM TO BOTTOM OF PIPE, REINFORCE CONTINUOUSLY WITH TWO (2) NO. 4 REINFORCING BARS. BEFORE CONCRETE IS SET, EMBED PIPE EVENLY, DEPOSIT REMAINDER OF CONCRETE TO CENTERLINE OF PIPE AND TAMP IN A MANNER TO

WHERE STORM SEWER CROSSES A SANITARY SEWER OR WATER LINE AND THE STORM SEWER IS WITHIN ONE AND A HALF (1-1/2) FEET OF THE SANITARY SEWER PIPE OR WATER LINE, THE INTERSECTION OF THE PIPE OR LINE SHALL BE EMBEDDED IN CONCRETE FOR A DISTANCE OF FIVE FEET (5') EACH WAY FROM CENTERLINE OF INTERSECTION.

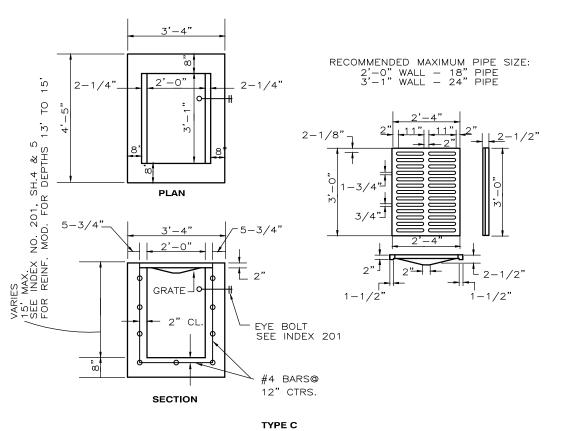
PROVIDE POURED CONCRETE FOUNDATIONS FOR DRAINAGE STRUCTURES. PRECAST CONCRETE BASE MAY BE USED WHERE APPROVED BY THE GEO-TECHNICAL ENGINEER. PRECAST CONCRETE BASE MUST BE SET LEVEL ON SAND CUSHION OF NOT LESS THAN 2" NOR MORE THAN 4".

MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY OR PRECAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.

RIP RAP SHALL BE LAID OVER FILTER FABRIC FROM THE BOTTOM UPWARD, STONES SHALL BE LAID BY HAND WITH EIGHT (8") INCH MINIMUM DIMENSION PERPENDICULAR TO GRADE WITH WELL BROKEN JOINTS, COMPACTED AS IT GOES, TRUE TO LINE. ALL JOINTS SHALL BE FILLED WITH CEMENT MORTAR SURFACE OF STONE TO BE EXPOSED. CLEAN JOINTS WITH SIRE BRUSH. BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN EIGHT INCH (8") MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS.

INFILTRATION OF THE STORM DRAINAGE SYSTEM SHALL NOT EXCEED 0.60 GALLONS PER INCH OF INTERNAL PIPE DIAMETER PER ONE HUNDRED FEET (100') OF PIPELINE PER HOUR WITH A MAXIMUM HYDROSTATIC HEAD AT THE CENTER LINE OF THE PIPE OF TWENTY FIVE FEET (25'), OR AS REQUIRED BY GOVERNING CODE AUTHORITIES. CATCH BASIN FRAMES AND GRATINGS: ASPHALT COATED GRAY CAST IRON, ANSI/ASTM A 48, CLASS 30 B.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO COMPLETE DRAINAGE.



1. THESE INLETS ARE SUITABLE FOR BICYCLE AND PEDESTRIAN AREAS AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO INFREQUENT TRAFFIC LOADINGS BUT ARE NOT TO BE PLACED IN AREAS SUBJECT TO ANY HEAVY WHEEL LOADS.

2. INLETS SUBJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN ROADWAY CLEAR ZONES AND IN AREAS ACCESSIBLE TO PEDESTRIANS SHALL HAVE TRAVERSABLE SLOTS. THE TRAVERSABLE SLOT MODIFICATION IS NOT ADAPTABLE TO INLET TYPE H. SLOTS MAY

3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEE GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH NON-TRAVERSABLE SLOTS. SUBJECT TO THE SELECTION DESCRIBED ABOVE, WHEN ALTERNATE G GRATE IS SPECIFIED IN THE PLANS, EITHER THE STEEL GRATE, HOT DIPPED GALVANIZED AFTER FABRICATION, OR THE CAST

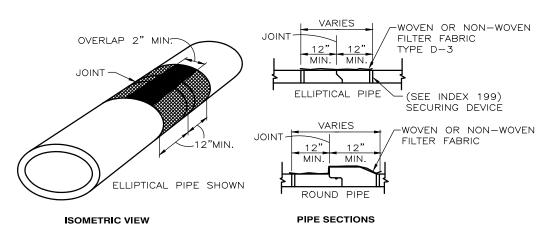
4. RECOMMENDED MAXIMUM PIPE SIZES SHOWN ARE FOR CONCRETE PIPE. PIPE SIZES LARGER THAN THOSE RECOMMENDED MUST BE CHECKED FOR FIT. 5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO CHAMFERED 3/4".

IRON GRATE MAY BE USED, UNLESS THE PLANS STIPULATE THE PARTICULAR TYPE.

6. PAVEMENT TO BE USED ON INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVERSABLE SLOTS ONLY WHEN CALLED FOR IN THE PLANS; BUT REQUIRED ON ALL TRAVERSABLE SLOT INLETS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR INLETS. QUANTITIES SHOWN ARE FOR INFORMATION

7. TRAVERSABLE SLOTS CONSTRUCTED IN EXISTING INLETS SHALL BE PAID FOR AS INLETS PARTIAL, AND SHALL INCLUDE THE COST FOR SLOT OPENINGS, PAVING AND ANY REQUIRED REPLACEMENT 8. SODDING TO BE USED ON ALL INLETS NOT LOCATED IN PAVED AREAS AND PAID FOR UNDER CONTRACT UNIT PRICE FOR SODDING, SY. 9. FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT TYPE "C" INLET DETAIL



COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS.

FOR ALL PIPE TYPES — CONCRETE PIPE SHOWN

FILTER FABRIC JACKET DETAIL

MINIMUM TECHNICAL STANDARDS CHECKLIST FOR UTILITY AS-BUILTS CITY OF PANAMA CITY BEACH DATED MAY, 2012

SURVEYORS AND MAPPERS MUST MEET THE FOLLOWING MINIMUM STANDARDS OF ACCURACY, COMPLETENESS, AND QUALITY FOR THE CITY OF PANAMA CITY BEACH TO ACCEPT AS-BUILTS:

5. MUST BE SIGNED AND SEALED BY THE SURVEYOR IN RESPONSIBLE CHARGE.

- 1. MUST IDENTIFY THE RESPONSIBLE SURVEYOR AND MAPPER.
- 2. SHALL STATE THE TYPE OF SURVEY IT DEPICTS AND THE PURPOSE OF THE SURVEY. 3. MUST BEAR THE NAME, CERTIFICATE OF AUTHORIZATION NUMBER, AND STREET AND MAILING
- ADDRESS OF THE BUSINESS ENTITY ISSUING THE AS-BUILT SURVEY, ALONG WITH THE NAME AND LICENSE NUMBER OF THE SURVEYOR IN RESPONSIBLE CHARGE.
- 4. MUST REFLECT A SURVEY DATE, WHICH IS THE DATE OF ACQUISITION. WHEN THE GRAPHICS OF THE AS—BUILT SURVEY ARE REVISED, BUT THE SURVEY DATE STAYS THE SAME, THE AS—BUILT SURVEY MUST LIST DATES FOR ALL REVISIONS.
- 6. A DESIGNATED "NORTH ARROW" AND EITHER A STATED SCALE OR GRAPHIC SCALE SHALL BE
- 7. APPROPRIATE LINE TYPES, LINE WEIGHTS, AND LINE WIDTHS SHALL BE USED ON THE AS—BUILT DRAWING TO DIFFERENTIATE EXISTING FROM PROPOSED AND WATER FROM SEWER, RECLAIM, AND STORM. ALL PHYSICAL ITEMS (I.E. PIPES, VALVES, ETC.), SURVEYED IDENTIFIED BY SIZE AND MATERIAL.
- 8. ALL UTILITIES IN THE PUBLIC RIGHT OF WAY AND WITHIN EASEMENTS OR TO THE END OF THE PUBLICLY OWNED PORTION OF THE UTILITY (I.E. METER AND BACKFLOW PREVENTER, CLEANOUT, ETC.) SHALL BE SHOWN WITH ASSOCIATED SIZES LABELED. THIS INCLUDES, BUT IS NOT LIMITED TO, STUB-OUTS/LATERALS, METERS, BFP'S, WATER MAINS, FORCE MAINS, GRAVITY SEWER MAINS, MANHOLES, STORM WATER PIPING AND ASSOCIATED STRUCTURES, VALVES, FIRE HYDRANTS, LIFT STATIONS, ETC. ALL PIPE LINE WORK MUST BE CONNECTED WITHIN THE SITE AS WELL AS THE CONNECTION TO EXISTING UTILITIES ADJACENT TO THE SITE (IT IS THE SURVEYOR'S RESPONSIBILITY TO COORDINATE WITH ALL CONTRACTORS FOR
- LOCATIONS AND SIZING). ALL UTILITY CONNECTIONS TO THE BUILDINGS MUST BE SHOWN. 9. ALL PROPOSED UTILITY/INGRESS/EGRESS EASEMENTS MUST BE SHOWN ON THE DRAWING AND
- 10. EDGE OF PAVEMENT, ROADS (ASPHALT SHADED), CURBS, DRIVEWAY CONNECTIONS, BUILDINGS, PARKING LOTS, RIGHT—OF—WAY, AND STREET NAMES MUST BE SHOWN IN ALL APPLICATIONS. ALL ITEMS MENTIONED ABOVE MUST BE FIELD LOCATED.
- 11. IF A LIFT STATION IS TO BE DEDICATED TO THE CITY THE PLAN MUST SHOW A DETAIL SCALED AT 1"=10' SHOWING ALL IMPROVEMENTS INCLUDING: WATER AND SEWER SERVICES, MANHOLES, INVERTS, RIMS, BFP'S, YARD HYDRANTS, CONTROL PANELS, FENCING, PARCEL BOUNDARY, LEGAL DESCRIPTION OF PARCEL BOUNDARY, WET WELL, VALVE BOX, FORCE MAIN, FLOW METER (IF APPLICABLE), DRIVEWAY, GATE.
- 12. PROPERTY BOUNDARY MUST BE CLEARLY LABELED AND DIMENSIONED

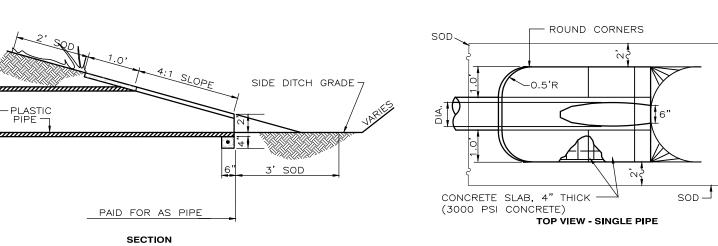
BELOW EXISTING GROUND" WILL NOT BE ACCEPTED.

- 13. INVERTS, GRATES, TOPS, RIMS MUST BE SHOWN FOR ALL STORM WATER DRAINAGE STRUCTURES. INVERTS (PIPES AND CLEANOUTS) AND RIMS MUST BE SHOWN FOR ALL GRAVITY SEWER MANHOLES. SLOPES MUST BE SHOWN ON EACH RUN OF PIPE FOR REVIEW AND
- 14. "AS-BUILT" PROFILE OF ALL DIRECTIONAL BORES AND JACK-AND-BORES INDICATING GRADE AND PIPE ELEVATIONS AT 10 FOOT INTERVALS SHALL BE PROVIDED ON AS-BUILT PLAN SHEETS BASED ON BORE LOGS DEVELOPED BY BORING CONTRACTOR DURING INSTALLATION. PROFILES SHALL USE HORIZONTAL STATIONING WHICH TIES TO STATIONING ON PLANS. PROFILES SHALL ALSO SHOW EXISTING SURFACE ELEVATIONS AS WELL AS ANY PROPOSED SURFACE ELEVATIONS ON THE PROFILE. SURFACE PROFILES MUST SHOW ANY PAVEMENT, SIDEWALKS, DITCHES, SWALES ETC. NOTE THAT PROFILES LOCATING PIPE SOLELY BY "DEPTH
- 15. COASTAL SETBACK LINE OR COASTAL CONSTRUCTION CONTROL LINE SHOULD BE DESIGNATED. 16. ELEVATIONS AND LOCATION OF ANY FLOOD ZONES ALONG THE FLOOD HAZARD BOUNDARIES

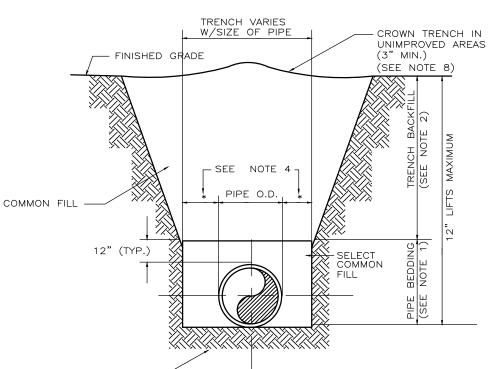
17. NEARBY WETLANDS AND OTHER ENVIRONMENTALLY SIGNIFICANT RESOURCES CLEARLY LABELED.

- 18. STORM WATER MANAGEMENT SYSTEM FEATURES INCLUDING DIMENSIONS OF: WET AND DRY SWALES, WET AND DRY PONDS, CONVEYANCE SYSTEMS, EASEMENTS, ALONG WITH ALL ASSOCIATED M.E.S. STRUCTURES AND INVERTS, OUTFALL STRUCTURES AND INVERTS, SKIMMERS, DISCHARGE STRUCTURES AND INVERTS AND SLOT ELEVATIONS, TOP OF BANK, SLOPE OF BANK AND BOTTOM OF ALL PONDS, SWALES, CLOSED AND OPEN CONVEYANCES. FOR FEMA LOWR SUBMITTALS ALSO PROVIDE: FINISHED FLOOR ELEVATIONS, SPOT ELEVATIONS AND/OR CONTOURS SHOWING LOWEST LOT ELEVATIONS.
- 19. THE ENGINEER OF RECORD SHALL REVIEW AND APPROVE THE AS—BUILT PRIOR TO SUBMISSION TO THE CITY FOR FINAL APPROVAL. WRITTEN APPROVAL BY THE ENGINEER OF RECORD SHALL BE NOTED ON A TRANSMITTAL WITH A STATEMENT OF NO EXCEPTIONS TO MINIMUM STANDARDS PROVIDED HEREIN.

STORM WATER REQUIREMENTS FOR THE AS-BUILT SURVEYS ONLY APPLY TO PARCELS WITHIN CITY LIMITS. PLEASE SUBMIT THREE (3) HARD COPIES AND ONE (1) DIGITAL (AUTOCAD FORMAT & PDF) FOR REVIEW AND APPROVAL.



CONCRETE MITERED END DETAIL



UNDISTURBED EARTH -(SEE NOTE 3)

- 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO 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 CITY.
- 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. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SUR RESTORATION WITHIN CITY RIGHT—OF—WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

TRENCHES AND EXCAVATION PITS SHALL NOT BE BACKFILLED UNTIL ALL TESTS AND INSPECTIONS COVERING THE INSTALLATION OF THE STORM DRAINAGE SYSTEM HAVE BEEN

ALL TIMBER SHEETING BELOW A PLANE ONE FOOT ABOVE TOP OF PIPE SHALL REMAIN IN PLACE IN ORDER NOT TO DISTURB PIPE GRADING. BEFORE BACKFILLING, REMOVE ALL OTHER SHEETING, BRACING AND SHORING. PIPE TO BE CAREFULLY COMPACTED TO NINETY FIVE PERCENT (95%) OF MAXIMUM DENSITY AS PER ASTM D-1557 UNTIL ONE FOOT (1') OF COVER EXISTS OVER PIPE.

IN STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AS FOR PIPE BEDDING AND SHALL BE DEPOSITED IN SIX INCH (6"O LOOSE LAYERS AS OPTIMUM MOISTURE CONTENT (+ 2%) AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 WHERE SERVICES OR UTILITY LINES CROSS STREET, BEDDING SHALL BE CARRIED TO FIVE FEET (5') BEHIND THE CURB, OR WHERE SIDEWALKS EXISTS, TO THE SIDE OF SIDEWALK FARTHEST AWAY FROM THE STREET.

MATERIAL USED FOR BEDDING SHALL MEET CURRENT RECOMMENDATIONS OF THE PIPE MANUFACTURER AND SHALL BE APPROVED BY THE ENGINEER. THE SPECIFIED COHESIONLESS MATERIAL SHALL BE PLACED IN THE TRENCH SIMULTANEOUSLY ON EACH SIDE OF THE PIPE TO THE FULL WIDTH OF THE TRENCH. MATERIAL WILL BE PLACED IN A MAXIMUM LIFT OF SIX (6) INCHES (COMPACTED DEPTH) TO A MINIMUM DEPTH OF ONE

PERFORM ALL TRENCHING REQUIRED FOR THE INSTALLATION OF UTILITIES AS SHOWN ON PLANS AND SPECIFIED HEREIN. MAKE ALL TRENCHES OPEN VERTICAL CONSTRUCTION WITH SUFFICIENT WIDTH TO PROVIDE FREE WORKING SPACE AT BOTH SIDE OF THE TRENCH AND AROUND THE INSTALLED ITEMS AS REQUIRED FOR CAULKING, JOINING,

PROPERLY SUPPORT ALL TRENCHES IN STRICT ACCORDANCE WITH ALL PERTINENT RULES

GRADE THE TRENCH BOTTOM TO PROVIDE A SMOOTH, FIRM AND STABLE FOUNDATION FREE OF ROCK POINTS THROUGHOUT THE LENGTH OF THE PIPE. IN AREAS WHERE SOFT, UNSTABLE MATERIALS ARE ENCOUNTERED AT THE SURFACE UPON WHICH COHESIONLESS MATERIAL IS TO BE PLACED, REMOVE THE UNSTABLE MATERIAL AND REPLACE IT WITH MATERIAL APPROVED BY THE ENGINEER, MAKE SUFFICIENT DEPTH TO DEVELOP A FIRM FOUNDATION FOR THE ITEM BEING INSTALLED.

AT EACH JOINT IN PIPE, RECESS THE BOTTOM OF THE TRENCH AS REQUIRED INTO THE FIRM FOUNDATION IN SUCH A MANNER AS TO RELIEVE THE BELL OF THE PIPE OF ALL LOAD AND TO ENSURE CONTINUOUS BEARING OF THE PIPE BARREL ON THE FIRM

ACCURATELY SHAPE ALL PIPE SUBGRADE AND FIT THE BOTTOM OF THE TRENCH TO THE PIPE SHAPE; USE A DRAG TEMPLATE SHAPED TO CONFORM TO THE OUTER SURFACE OF THE PIPE IF OTHER METHODS DO NOT PRODUCE SATISFACTORY RESULTS. SHAPING WILL CONFORM TO THE OUTER OF THE PIPE FOR A DEPTH OF NOT LESS THAN 10% OF THE

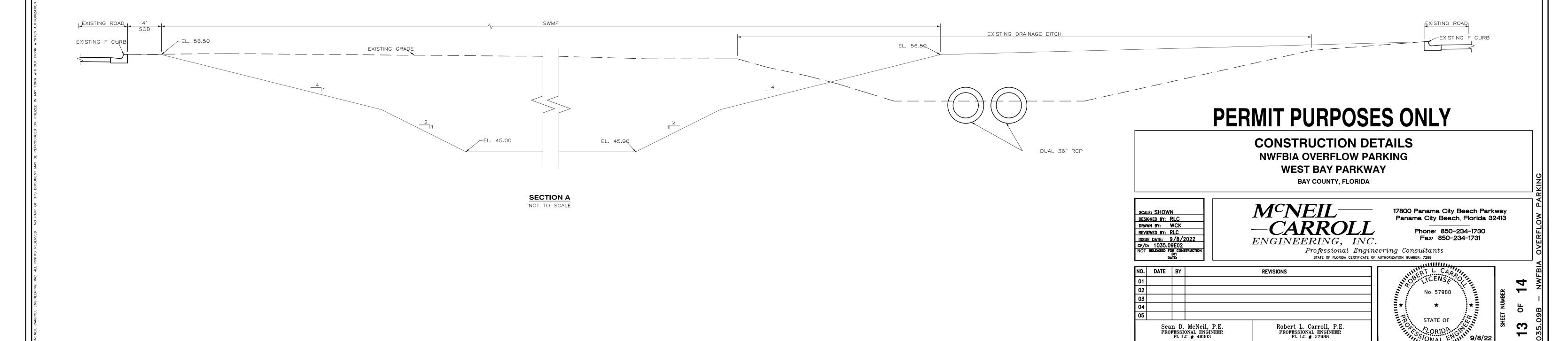
PIPE TRENCHES SHALL BE EXCAVATED TO A DEPTH THAT WILL INSURE A MINIMUM OF THIRTY INCHES OF COVER LESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED. BACKFILL OF EARTH AROUND MANHOLES SHALL BE FILLED WITH THOROUGHLY COMPACTED SAND OR GRAVEL AT THE EXPENSE OF THE CONTRACTOR.

TRENCHES SHALL BE BACKFILLED WITH EXCAVATED MATERIALS, FREE FROM LARGE CLODS OR STONES. BACKFILL SHALL BE DEPOSITED IN LAYERS NOT TO EXCEED 6—INCHES (6") IN THICKNESS, MOISTENED, AND COMPACTED TO DENSITY EQUAL TO OR GREATER THAN 95% OF THE MAXIMUM DENSITY OF AASHTO STANDARD METHOD T—99, TO A MINIMUM DEPOSITY OF A MINIMUM DEPOSITY OF THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE PLACED IN 8—INCH LAYERS COMPACTED TO 95% MAXIMUM DENSITY UNLESS THE BACKFILL IS BENEATH PAVED OR BUILDING AREAS IN WHICH CASE IT SHALL BE COMPACTED TO 95% OF A MODIFIED PROCTOR

EXCAVATIONS FOR PIPE LAYING OPERATIONS SHALL BE CONSTRUCTED IN A MANNER TO CAUSE THE LEAST INTERRUPTION TO TRAFFIC. WHEN TRAFFIC MUST CROSS OPEN TRENCHES THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES.

TYPE B BEDDING AND TRENCHING DETAIL

95% OF A MODIFIED PROCTOR.



ASPHALTIC CONCRETE PAVING

COMPLIES WITH, OR EXCEEDS, SPECIFIED REQUIREMENTS.

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL PAVEMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED

SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING: ASPHALT PAVING MATERIAL AND MIX DESIGN. PROVIDE COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR, CERTIFYING THAT EACH MATERIAL ITEM

WEATHER LIMITATIONS: APPLY PRIME AND TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES F. (10 DEGREES C), AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES F. (1 DEGREE C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS AN EXCESS OF MOISTURE. CONSTRUCT ASPHALT CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40 DEGREES F. (4 DEGREES C), AND WHEN BASE IS DRY. SURFACE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES F. (-1 DEGREE C) AND RISING.

GRADE CONTROL: ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS. THE SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS.

PRODUCTS: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS.

AGGREGATE: CRUSHED STONE, CRUSHED GRAVEL, AND SHARP-EDGED NATURAL SAND. MAXIMUM AGGREGATE SIZE SHALL BE NO GREATER THAN ONE-HALF OF THE DESIGN

SURFACE PREPARATION: PROOF ROLL PREPARED BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.

NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL

DEFICIENT BASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING. PRIME COAT: APPLY AT RATE OF 0.2 TO 0.5 GAL. PER SQ. YD., OVER COMPACTED BASE. APPLY MATERIAL TO PENETRATE AND SEAL, BUT NOT FLOOD SURFACE. CURE AND DRY AS LONG AS NECESSARY TO ATTAIN PENETRATION AND EVAPORATION OF VOLATILE. TACK COAT: APPLY TO CONTACT SURFACE OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO ASPHALT

CONCRETE PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.51 GAL. PER SQ. YD. OF ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING.

ASPHALT CONCRETE MIX: THIS ITEM SHALL CONSIST OF A WEARING SURFACE CONSTRUCTED OF ASPHALTIC CONCRETE ON A PREPARED BASE. THE MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THOSE SET FORTH FOR ASPHALTIC CONCRETE IN THE LATEST F.D.O.T. EDITION OF THE STANDARD SPECIFICATIONS.

THE ASPHALTIC CEMENT SHALL MEET THE REQUIREMENTS OF AASHTO SPECIFICATIONS M-20,

VISCOSITY GRADE AC-20 (PENETRATION GRADE 60-70). JOB MIX FORMULA: THE MARSHALL TESTING WILL BE USED IN ESTABLISHING THE JOB MIX FORMULA AND FOR CONTROL TESTING THROUGHOUT THE WORK. THE DENSITY OF FIELD SAMPLES SHALL NOT BE LESS THAN 95% OF THE MARSHALL LABORATORY COMPACTED MIXTURE COMPOSED OF THE SAME MATERIALS IN LIKE

THE THICKNESS OF THE SURFACE SHALL BE AS SPECIFIED IN THE SITE WORK PLANS. THIS REQUIREMENT SHALL BE CHECKED BY CORES AND WHERE A DEFICIENCY OF MORE THAN 1/4" EXISTS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCY EITHER BY REPLACING THE FULL THICKNESS OR OVERLAYING THE AREAS TO THE SATISFACTION OF THE ENGINEER.

PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F. (107 DEGREES C). PLACE IN STRIPS NOT LESS THAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO THE ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTENDED ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BASE COURSE FOR A SECTION BEFORE PLACING SURFACE COURSE.

MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOINING WORK. CLEAN CONTACT SURFACES AND

DISPLACEMENT. ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF JOINTS AND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLING, AND REPAIR DISPLACED AREAS BY LOOSENING AND FILLING, IF REQUIRED, WITH HOT MATERIAL. CONTINUE SECOND

BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE

ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPACTED. PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED AND COURSE HAS ATTAINED MAXIMUM DENSITY. AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED. FRECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME

TEST IN-PLACE ASPHALT CONCRETE COURSES FOR PAVING AS DIRECTED BY ENGINEER FOR THICKNESS: IN-PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABLE IF EXCEEDING

BASE COURSE: 1/2" PLUS OR MINUS SURFACE COURSE: 1/4" PLUS OR MINUS

SURFACE SMOOTHNESS: TEST FINISHED SURFACE OF EACH ASPHALT CONCRETE COURSE FOR SMOOTHNESS, USING 10' STRAIGHT EDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTER OF PAVED AREAS. SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS:

WEARING COURSE SURFACE: 3/16" CHECK SURFACED AREAS AT INTERVALS AS DIRECTED BY ENGINEER. FIELD DENSITY AND SOIL BEARING CAPACITY TESTS SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER. PROVIDE INSPECTION, CERTIFICATION OF PAVEMENT CONSTRUCTION, FIELD TESTS AND CORE SAMPLES OF THE COMPLETE PAVEMENT CONSTRUCTION.

MISCELLANEOUS PAVEMENT

WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: CONCRETE SIDEWALKS, CURBS, CURB AND GUTTER, INCLUDING POROUS FILL. CONCRETE LIGHT POLE BASES.

SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING:

CONCRETE MIX DESIGN

THIS SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS. POROUS FILL SHALL BE CLEAN COARSE SAND, FREE DRAINING GRAVEL, OR CRUSHED ROCK ALL AS APPROVED BY THE GEOTECHNICAL ENGINEER.

POROUS FILL UNDER SIDEWALKS, ETC., SHALL BE GRADED BETWEEN 3/8" AND NO. 200 POROUS FILL SHALL BE CAPABLE OF BEING COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-1557.

STEEL REINFORCING BARS SHALL CONFORM TO "SPECIFICATIONS FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A-615 GRADE NO. 60, HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI. TIE WIRE SHALL BE BLACK ANNEALED WIRE, 16 GAUGE MINIMUM. BAR SUPPORTS SHALL CONFORM TO THE "BAR SUPPORT SPECIFICATIONS" CONTAINED IN "MANUAL OF STANDARD PRACTICE" AS PUBLISHED BY CRSI AND WCRSI. BAR SUPPORTS AND ACCESSORIES WITHIN 1/2" OF SURFACE OF CONCRETE EXPOSED TO WEATHER SHALL BE NON-CORROSIVE. CEMENT SHALL BE GRAY PORTLAND CEMENT, TYPE I OR II, CONFORMING TO ASTM C-150 OR ASTM C-175 FOR AIR-ENTRAINING PORTLAND CEMENT.

CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. FINE AND COARSE AGGREGATES SHALL BE REGARDED AS SEPARATE INGREDIENTS AND EACH SHALL CONFORM TO THE APPROPRIATE GRADING REQUIREMENTS OF ASTM C-33. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C-260. EXPANSION JOINTS SHALL BE 1/2" THICK CANE FIBER EXPANSION JOINTS, CONFORMING TO ASTM D-1751. EXPANSION JOINT SEALANT SHALL BE TRAFFIC GRADE, SELF LEVELING TREMCO THC-900" OR PERCORA CORPORATION "NF-200". COLOR SHALL BE BLACK. SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER.

CURING COMPOUND SHALL BE CLEAR, CONFORMING TO ASTM C-309. CURING COMPOUND SHALL BE COMPATIBLE WITH PAINTS, ETC., SCHEDULED OR SPECIFIED FOR APPLICATION TO

ALL CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MIX DESIGN SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD.

ALL CONCRETE SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4" MAXIMUM. TOLERANCE IN SLUMP SHALL NOT EXCEED ACI RECOMMENDATIONS. READY-MIXED CONCRETE SHALL CONFORM TO ASTM C-94 AND THE NATIONAL READY MIX

POROUS FILL SHALL BE LAID AND COMPACTED TO A MINIMUM DEPTH OF 3", UNLESS OTHERWISE INDICATED, UNDER ALL SIDEWALKS, ETC.. POROUS FILL SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY AS **SITE IMPROVEMENTS**

ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: GUARD POSTS, GUARD RAIL AND POSTS AND SIGN POSTS LOCATED ON THE SITE. TRAFFIC CONTROL SIGNS. GUARD POSTS,

GUARD RAIL AND POSTS AND SIGN POSTS: STEEL SHAPES SHALL CONFORM TO ASTM A-36. STEEL PIPE SHALL CONFORM TO ASTM A-53, E OR S, TYPE B. STEEL PIPE SHALL CONFORM TO ASTM A-501.

ASPHALT BASED COATING IS NOT PERMITTED.

SHOP COAT SHALL BE RUST INHIBITING RED OXIDE, RED LEAD OR LEAD CHROMATE OR EQUAL. IT IS THE INTENT TO PERMIT THE USE OF THE FABRICATORS STANDARD PRIME

CONCRETE FOR SETTING FENCE AND GUARD RAIL POSTS AND SETTING AND FILLING OF SIGN AND GUARD POSTS SHALL BE PORTLAND CEMENT COMPLYING WITH ASTM C-150, AGGREGATES COMPLYING WITH ASTM C-33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI, USING AT LEAST 4 SACKS OF CEMENT PER CU. YD., 1" MAXIMUM SIZE AGGREGATES, MAXIMUM 3" SLUMP, AND 2% TO 4% ENTRAINED AIR. PREPARE TO CONFORM TO ASTM C-94

MISCELLANEOUS NOTES

SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.

THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.

THE ENGINEER HAS ATTEMPTED TO LOCATE EXISTING STRUCTURES AND EXISTING ILITIES IN THE PROJECT AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY

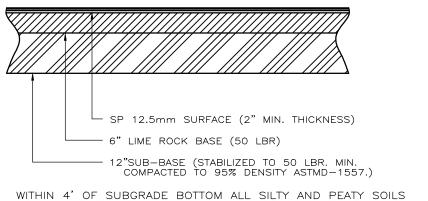
DETERMINE THE EXACT LOCATIONS OF THESE STRUCTURES OR UTILITIES AND TO DETERMINE IF OTHER STRUCTURES OR UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION AND RELOCATION OF UTILITIES IN

CONFLICT WITH NEW CONSTRUCTION BY APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK IN ACCORDANCE WITH STATE STANDARDS AND UNTIL IT IS

CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING SURROUNDINGS (I.E., ASPHALT SIDEWALKS, CURBS, ETC.) THAT ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT

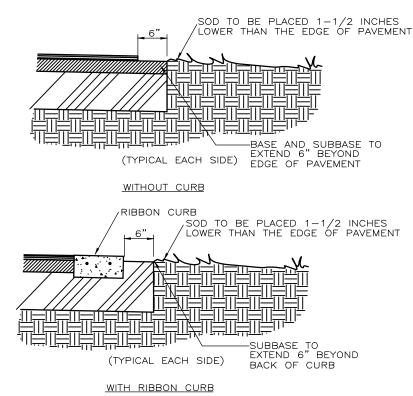
ALL SITE WORK MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. ONTRACTOR SHALL HAVE ALL PERMITS PRIOR TO CONSTRUCTION IN WETLANDS, COUNTY

CONSTRUCTION PLANS ARE BASED ON FIFLD SURVEY AND OTHER DATA AS SHOWN. IT S THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS OF NEW AND EXISTING CONNECTIONS NECESSARY TO COMPLETE THE INTENT OF THE PLANS. IN THE EVENT THERE IS A CONFLICT DUE TO UNFORESEEN OBSTRUCTIONS OR SHORT FALLS TO CONNECTIONS (WHICH DOES NOT MEET THE INTENT OF THE CONSTRUCTION PLANS)
THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION. THE CONTRACTOR SHALL RELOCATE OR REMOVE OBSTACLES AS DIRECTED BY OWNER.

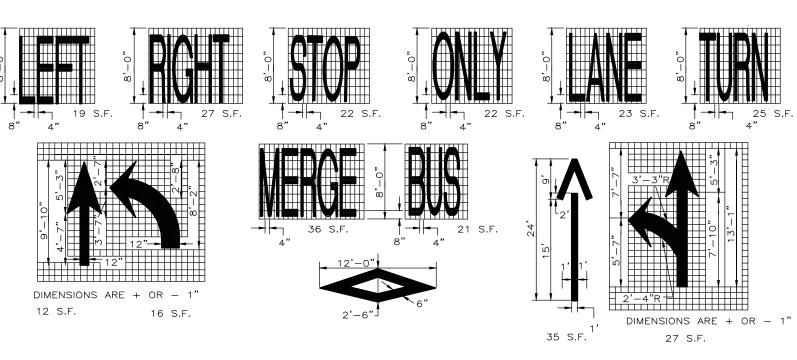


WITHIN 4' OF SUBGRADE BOTTOM ALL SILTY AND PEATY SOILS OR ANY OTHER ORGANIC SOILS SHALL BE REMOVED. FILL SOILS SHALL BE SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THAN 15% BY DRY WEIGHT, FINER THAN THE U.S. No. 200 MESH SIEVE AND COMPACTED TO A DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH.

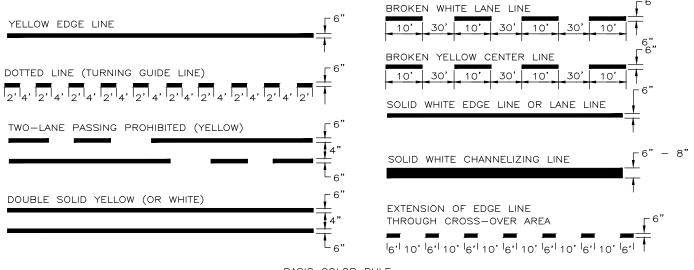
ASPHALTIC PAVEMENT DETAIL





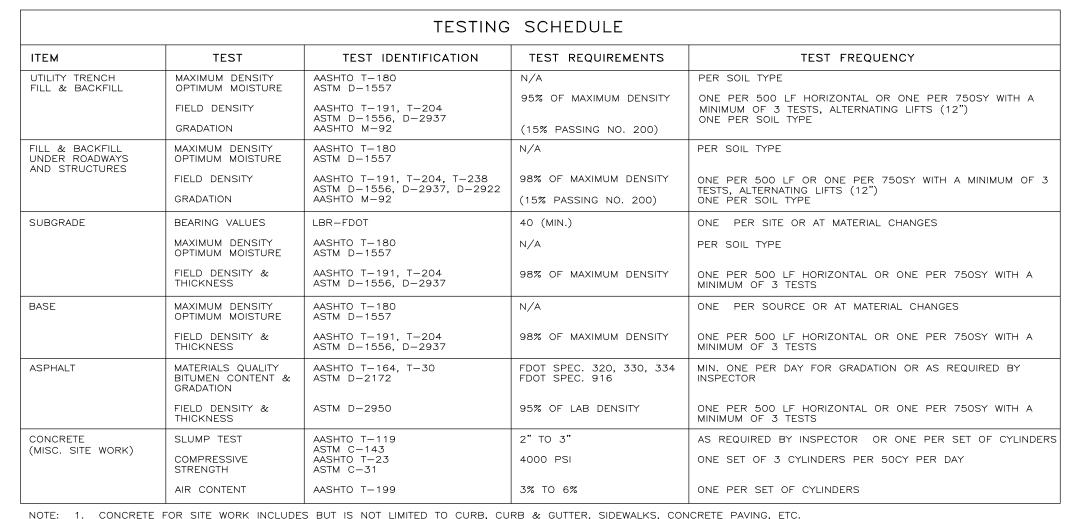


PAVEMENT ARROWS AND MESSAGE DETAILS



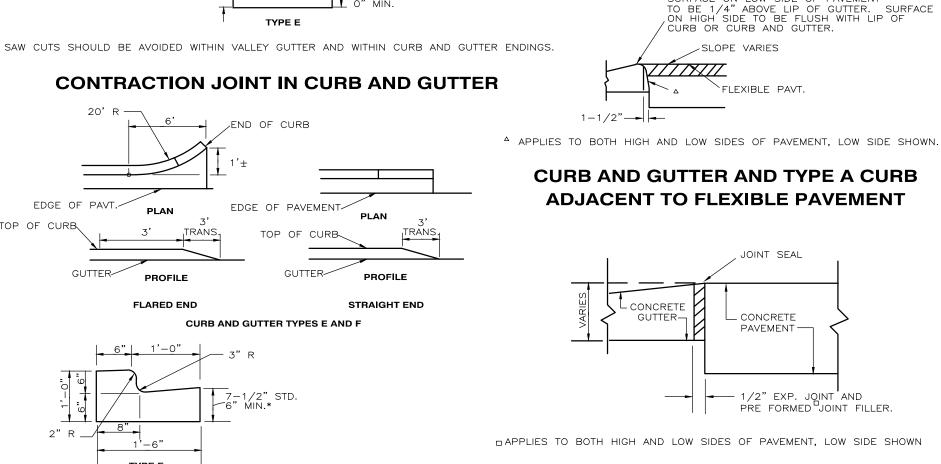
BASIC COLOR RULE WHITE LINES SEPARATE FLOWS IN SAME DIRECTION YELLOW LINES SEPARATE FLOWS IN OTHER OPPOSITE DIRECTION

YELLOW DOTTED LINES MAY BE USED IN SPECIAL CASES TYPES OF PERMANENT LONGITUDINAL LINES



2. THIS TEST SCHEDULE APPLIES TO SITE WORK ONLY. SEE ARCHITECT'S SPECIFICATIONS FOR FOUNDATION/BUILDING TESTING.

DEPTH OF SAW CUT



*WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT HE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

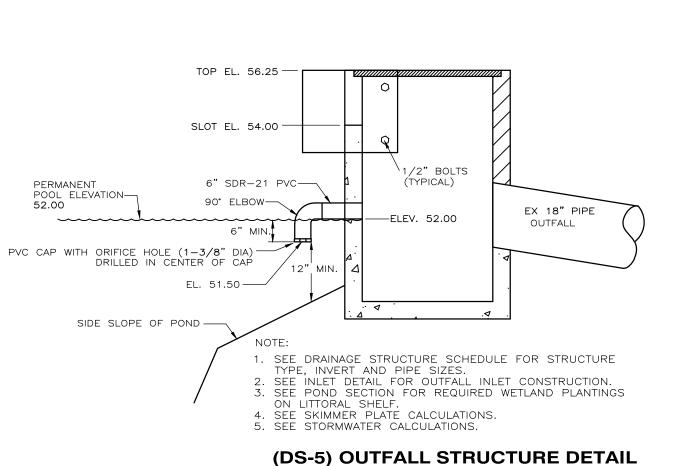
EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

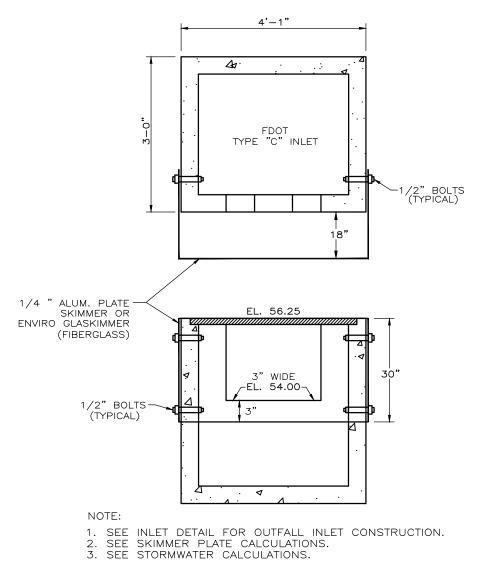
SURFACE ON LOW SIDE OF PAVEMENT

FOR USE ADJACENT TO CONCRETE OF FLEXIBLE PAVEMENT, CONCRETE SHOWN. FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT, EXPANSION JOINT, PERFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

1.FOR CURB, GUTTER AND CURB AND GUTTER PROVIDE 1/8" - 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB AND GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. 2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO

MODIFIED TYPE "F" CURB DETAIL



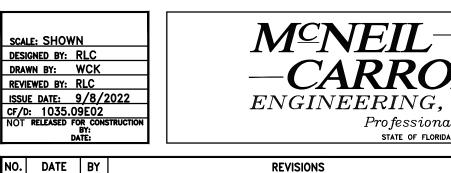


SKIMMER PLATE DETAIL

NOT TO SCALE

PERMIT PURPOSES ONLY

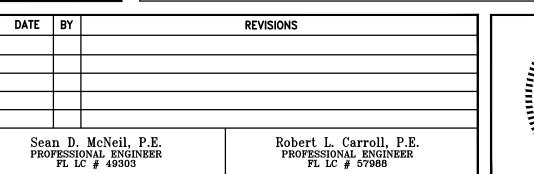
CONSTRUCTION DETAILS NWFBIA OVERFLOW PARKING **WEST BAY PARKWAY** BAY COUNTY, FLORIDA



M^CNEIL— ENGINEERING, INC.

17800 Panama City Beach Parkway Panama City Beach, Florida 32413 Phone: 850-234-1730 Fax: 850-234-1731

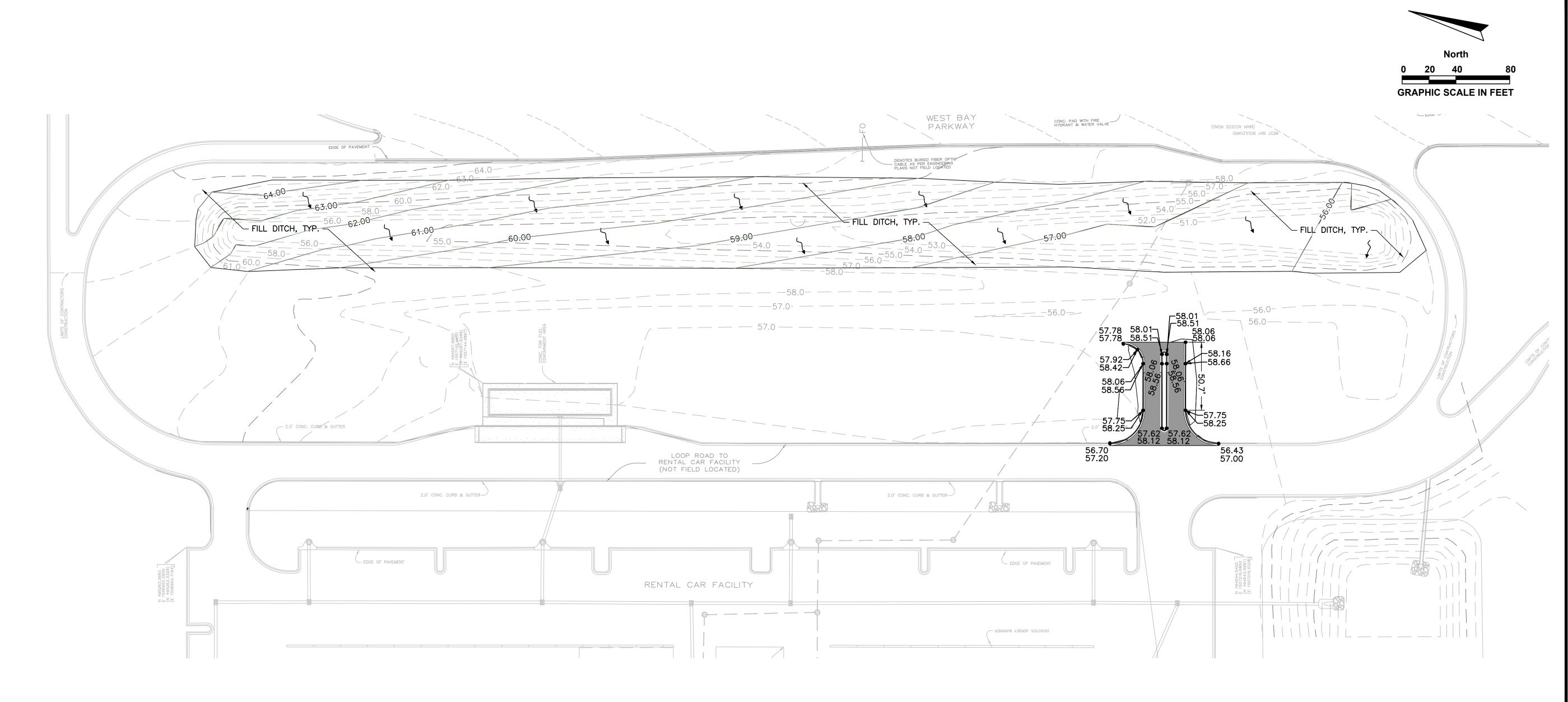
Professional Engineering Consultants STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288



No. 57988 STATE OF 9/8/22

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO

NOT TO SCALE



SUPPLEMENTAL GRADING PLAN NOTES:

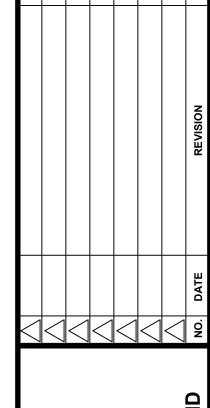
- SUPPLEMENTAL GRADING PLAN IS ONLY TO BE CONSTRUCTED IF ADDITIVE ALTERNATE NO. 2 IS AWARDED.
- 2. SEE PAGES 6 AND 7 OF VOLUME II FOR ADDITIONAL SITE GEOMETRY DETAILS.
- 3. SEE PAGES 8 AND 9 OF VOLUME III FOR SITE GRADING AND DRAINAGE NOTES.
- 4. SEE PAGES 10 AND 11 OF VOLUME III FOR DRAINAGE PIPE AND STRUCTURE SCHEDULES. NOTE: ONLY THE DUAL 36" PIPE AND ASSOCIATED STRUCTURES (DS20, DS21, DS22) WILL BE INSTALLED IN ADDITIVE ALTERNATE NO. 2.
- 5. CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION THROUGHOUT CONSTRUCTION SEE SHEET 12 OF VOLUME III FOR DETAIL.

	LEGEND
	EXISTING CONDITIONS
	EXISTING CONTOURS
	PROPOSED CONTOURS
\leftarrow	DRAINAGE FLOW ARROW
57.75 ●58.25	FLOW LINE OF CURB TOP OF CURB

ZHZ







UPPLEMENTARY
GRADING PLAN

ONG-TERM AND
PLOYEE PARKING
EXPANSION

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
PROJECT NO: 2022.073.01

DATE: SEPT 9, 2022
SHEET NUMBER

Sheet NOMBER

ELECTRICAL LEGEND

A-1 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT NO. 1 TO PANEL A; "B" INDICATES FIXTURE TYPE; MARKS ACROSS RACEWAY RUN INDICATES THE NUMBER OF NO. 12 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1" CONDUIT (2#12 & 1#12 GND-1"C)

□-○ POLE MOUNTED FIXTURE

~~~ RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE

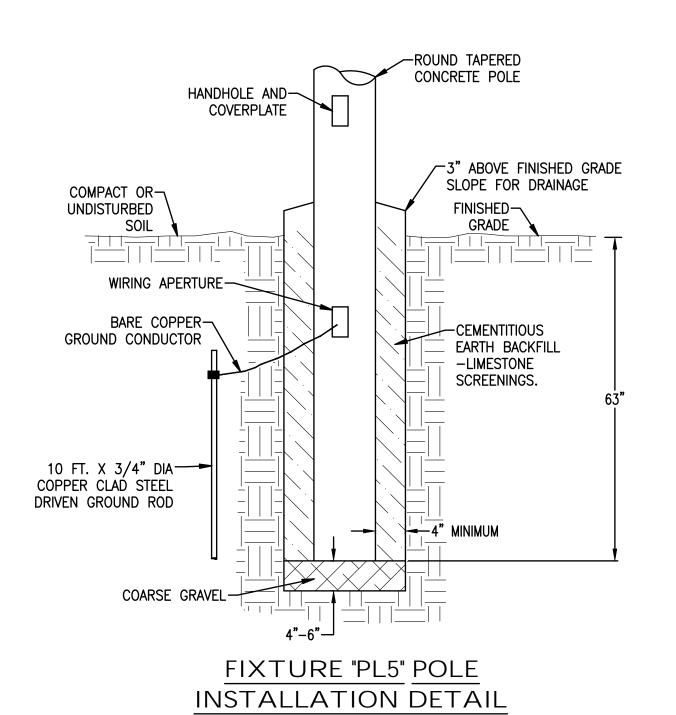
**PANEL**; 120/208V;

wp **②→** JUNCTION BOX; WEATHERPROOF

|                                                                      |                     | LIC                                               | G H T                | ING                    | FIX               | TUR                               | ESCH                  | HEDULE                     |                                                                                                                                |
|----------------------------------------------------------------------|---------------------|---------------------------------------------------|----------------------|------------------------|-------------------|-----------------------------------|-----------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Project: 22064 - NWFBIA Overflow Parking Lighting and Access Control |                     |                                                   |                      |                        |                   |                                   |                       |                            |                                                                                                                                |
| Note:                                                                | Per electrical spec | ifications, alternate fixtures shall be submitted | d to the engin       | eer for prior a        | pproval a m       | inimum of (10)                    | ten business day      | s prior to bid date. Any a | lternate fixtures not submitted for prior approval will not be reviewed.                                                       |
| Luminaire<br>Designation                                             | Manufacturer        | Catalog Number                                    | Connected<br>Voltage | Luminaire<br>Load (va) | Lamping<br>Source | Color<br>Rendering<br>Index (CRI) | Kelvin<br>Temperature | Mounting                   | Comments                                                                                                                       |
| PL5                                                                  | ENERGY HARNESS      | EHF-ST3-3-5-50K-277V-D10-BK                       | 208V                 | 150 VA                 | LED               | >70                               | 5000K                 | POLE<br>30'-0" AFG         | 1.80 <sup>2</sup> EPA RATING; MUST MEET APPLICABLE FDOT PRODUCT<br>STANDARDS FOR LISTING ON FLORIDA'S APPROVED PRODUCT<br>LIST |
| POLE FOR<br>PL5                                                      | AMERON              | MER09                                             | N/A                  | N/A                    | N/A               | N/A                               | N/A                   | DIRECT BURIAL              | MUST MEET EPA RATING 140MPH WITH FIXTURE ATTACHED; CONCRETE SPUN TAPERED POLE                                                  |
|                                                                      |                     |                                                   |                      |                        |                   | _                                 |                       |                            |                                                                                                                                |

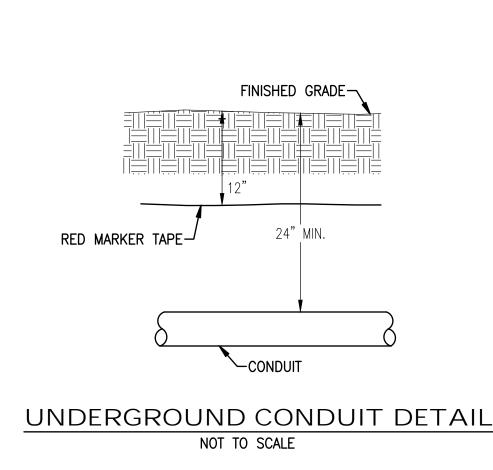
#### EXISTING POWER PANEL

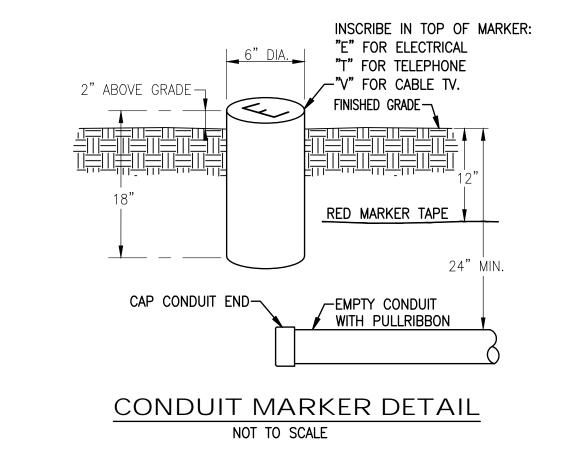
|     |                                        | S    | YSTEM     | 208/   | 120V      | 3Ф    | 4W     |                                            |    |
|-----|----------------------------------------|------|-----------|--------|-----------|-------|--------|--------------------------------------------|----|
|     | DANIEL CT                              | R    | RATING    | 100A   | M.C       | C.B.  | 65,000 | AIC MINIMUM                                |    |
|     | PANEL ST                               | ENCL | OSURE     | NEM    | IA 3R     | SURFA | CE MO  | UNT                                        |    |
|     |                                        | Ol   | PTIONS    | BOLT O | N BREA    | KERS  |        |                                            | _  |
| CKT | CKT CKT BKR CONNECTED CKT BKR CEDATALG |      |           |        |           |       |        | CKT                                        |    |
| #   | SERVING                                | TRIP | TRIP POLE |        | LOAD (VA) |       | TRIP   | SERVING                                    | #  |
| 1   | EXISTING CIRCUIT                       | 20   | 2         |        |           | 3     | 15     | EXISTING CIRCUIT - SUMP PUMP               | 2  |
| 3   | No. 201 (10 Miles)                     | -    | =.        | -      | -         | -     | -      | W 200 10                                   | 4  |
| 5   | EXISTING CIRCUIT                       | 20   | 2         |        |           | -     | -      | N N N N N                                  | 6  |
| 7   |                                        | -    | -         |        |           | 3     | 15     | EXISTING CIRCUIT                           | 8  |
| 9   | EXISTING CIRCUIT                       | 30   | 2         |        |           | -     | -      | NA NA NA NA NA                             | 10 |
| 11  |                                        | -    | -         |        |           | -     | -      |                                            | 12 |
| 13  | EXISTING CIRCUIT                       | 20   | 1         |        |           | 2     | 30     | EXISTING CIRCUIT                           | 14 |
| 15  | EXISTING CIRCUIT                       | 15   | 3         |        |           | -     | -      | NO. NO. NO. NO.                            | 16 |
| 17  |                                        | -    | -         |        |           | 1     | 20     | EXISTING CIRCUIT                           | 18 |
| 19  | an and the last                        | -    | -         |        |           | 3     | 30     | EXISTING CIRCUIT (SURGE PROTECTIVE DEVICE) | 20 |
| 21  | EXISTING CIRCUIT                       | 20   | 1         |        |           | -     | -      |                                            | 22 |
| 23  | EXISTING CIRCUIT                       | 20   | 1         |        |           | -     | -      | NO NO NO NO                                | 24 |
| 25  | LTG - PARKING LOT                      | *20  | 1         | 900    |           | -     | -      | SPACE ONLY                                 | 26 |
| 27  |                                        | -    | -         |        |           | -:    | -      | SPACE ONLY                                 | 28 |
| 29  | SPACE ONLY                             | -    | -         |        |           | -1    | -1     | SPACE ONLY                                 | 30 |
| NOT | TOTAL CONNECTED LOAD =                 | =    |           | 900 VA | /         | 360   | =      | 2.5 A                                      |    |



NOT TO SCALE

\* INSTALL 20 AMP 2 POLE BREAKER COMPATIBLE WITH EXISTING PANEL





#### ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- C. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS SIZE PER N.E.C.
- SHALL BE PAINTED TO MATCH ADJACENT FINISH.

  E. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE

D. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM

- FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL,"T" FOR TELEPHONE,"V" FOR TV CABLE,"F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.

  F. GENERAL CONTRACTOR SHALL FIELD—VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF
- F. GENERAL CONTRACTOR SHALL FIELD—VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- G. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- H. FINAL CONNECTION TO ALL DRY TYPE TRANSFORMERS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION
- I. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
- J. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
- K. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- L. PROVIDE 'LSI' TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
- M. PROVIDE BUSHINGS ON ALL CONDUIT.

**ABBREVIATIONS** 

AFG — ABOVE FINISHED GRADE

ÉC – ELECTRICAL CONTRACTOR

GND — GROUND CONDUCTOR

EMT — ELECTRICAL METALLIC TUBING

PVC - POLYVINYL CHLORIDE CONDUIT

NEC - NATIONAL ELECTRIC CODE (NFPA-70)

UNO - UNLESS NOTED OTHERWISE

C. – CONDUIT C/L – CENTERLINE

LTG — LIGHTING LTS — LIGHTS

REC - RECEPTACLE

WP - WEATHERPROOF

VOLUME IV



NORTHWEST FLORIDA BEACHES INTERNATIONAL AIRPORT

/ERFLOW PARKING LIGHTING AND ACCES

CONTROL

REVISION:
DATE: DESCRIPTION:

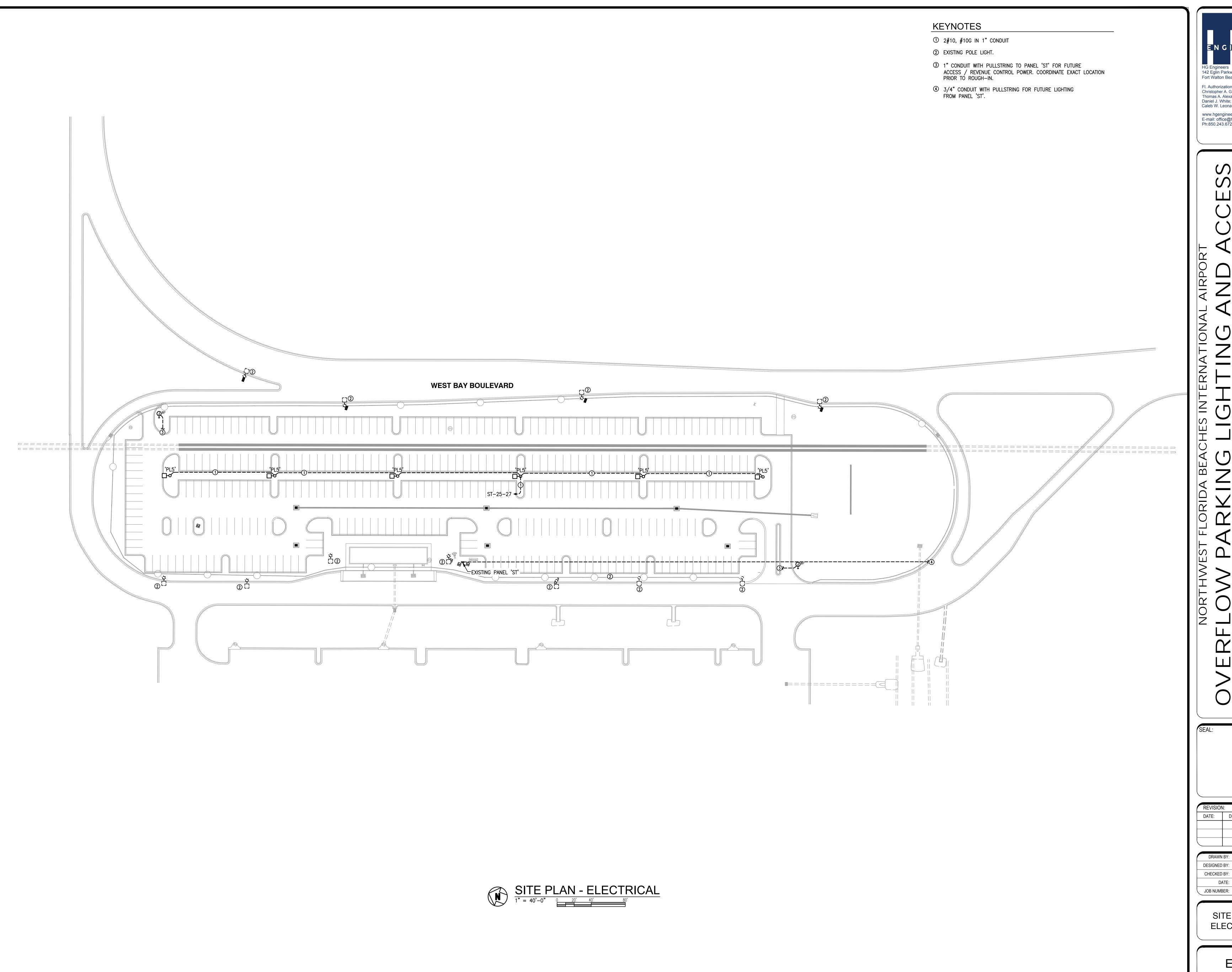
DRAWN BY: SJ
DESIGNED BY: SJ
CHECKED BY: DW

LEGEND AND NOTES

JOB NUMBER:

22064

**E0.1** 1 OF 3

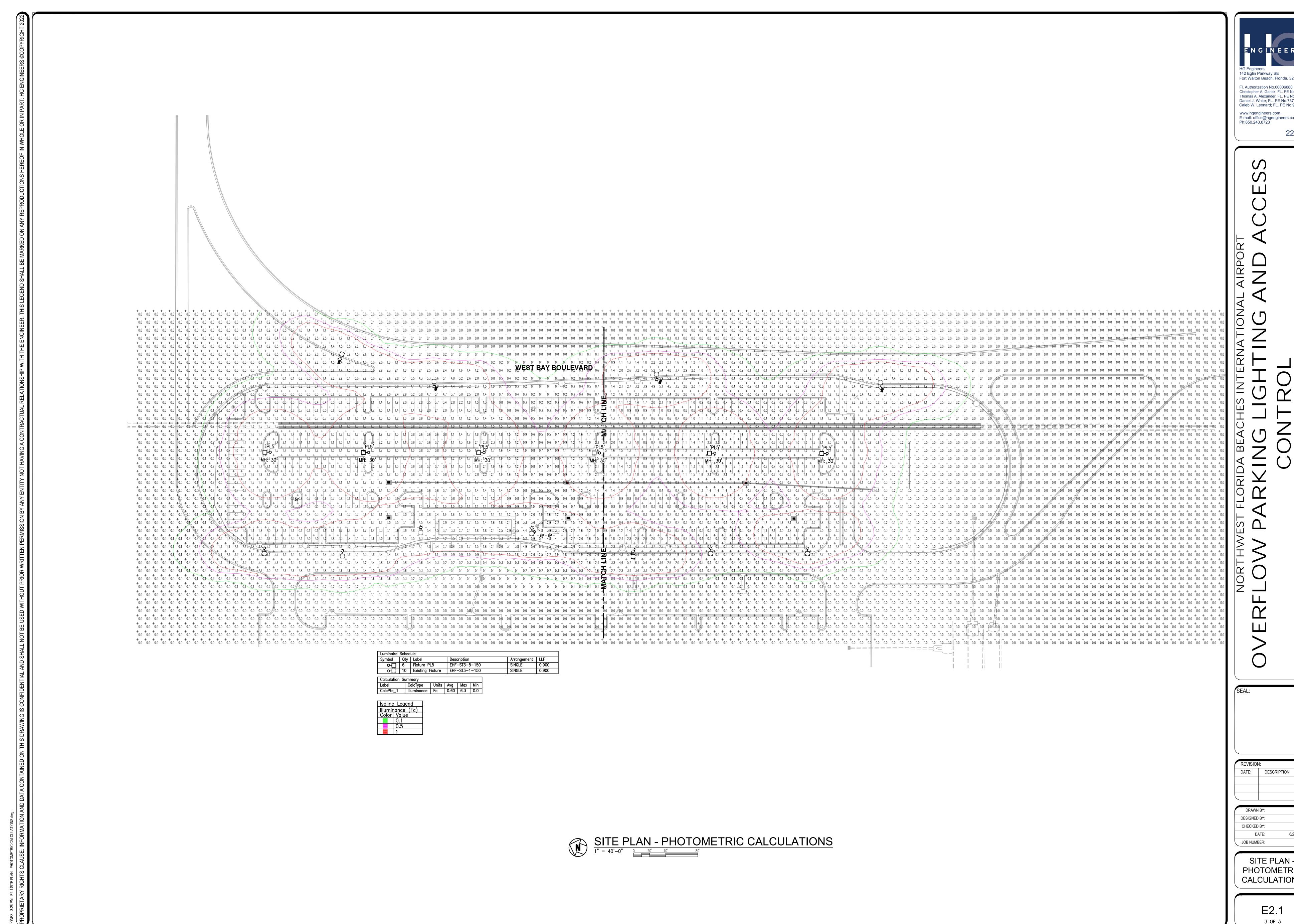


HG Engineers 142 Eglin Parkway SE Fort Walton Beach, Florida, 32548 Fl. Authorization No.00006680 Christopher A. Garick; FL. PE No.53924 Thomas A. Alexander; FL. PE No.73172 Daniel J. White; FL. PE No.73790 Caleb W. Leonard; FL. PE No.91782 www.hgengineers.com E-mail: office@hgengineers.com Ph:850.243.6723

DATE: DESCRIPTION:

SITE PLAN -ELECTRICAL

2 OF 3



142 Eglin Parkway SE Fort Walton Beach, Florida, 32548 Christopher A. Garick; FL. PE No.53924 Thomas A. Alexander; FL. PE No.73172 Daniel J. White; FL. PE No.73790 Caleb W. Leonard; FL. PE No.91782 www.hgengineers.com E-mail: office@hgengineers.com Ph:850.243.6723

22064

SITE PLAN -PHOTOMETRIC CALCULATIONS

3 OF 3