PROJECT DATA

PROJECT NAME	HENDERSON BEACH RESORT
CLIENT NAME	DUNAVANT GULF, LLC 36008 EMERALD COAST PARKWAY, UNIT A-101 DESTIN, FLORIDA 32541 901 369 1570 MANAGING MEMBER MR BILL HAGERMANN
PREPARED BY	INNERLIGHT ENGINEERING CORPORATION 5450 NORTH 'W' STREET PENSACOLA, FLORIDA 32505
ENGINEEER OF RECORD	DAVID E SMITH, P E FLORIDA REG NO 58927 5450 NORTH 'W' STREET PENSACOLA, FLORIDA 32505 850 333 4370

UTILITY PROVIDERS

WATER PROVIDER	DESTIN WATER USERS 218 MAIN STREET DESTIN, FLORIDA 32541 850 837 6146
SEWER PROVIDER	DESTIN WATER USERS 218 MAIN STREET DESTIN, FLORIDA 32541 850 837 6146
POWER PROVIDER	GULF POWER 34854 EMERALD COAST PARKWAY DESTIN, FLORIDA 32541 850 244 4701
GAS PROVIDER	OKALOOSA GAS DISTRICT 14071 EMERALD COAST PARKWAY DESTIN, FLORIDA 32541 850 654 3113
TELEPHONE PROVIDER	COX COMMUNICATIONS, INC 320 RACETRACK ROAD NW FORT WALTON BEACH, FLORIDA 32547 850 695 9440
TV/CABLE PROVIDER	COX COMMUNICATIONS, INC 320 RACETRACK ROAD NW FORT WALTON BEACH, FLORIDA 32547 850 695 9440

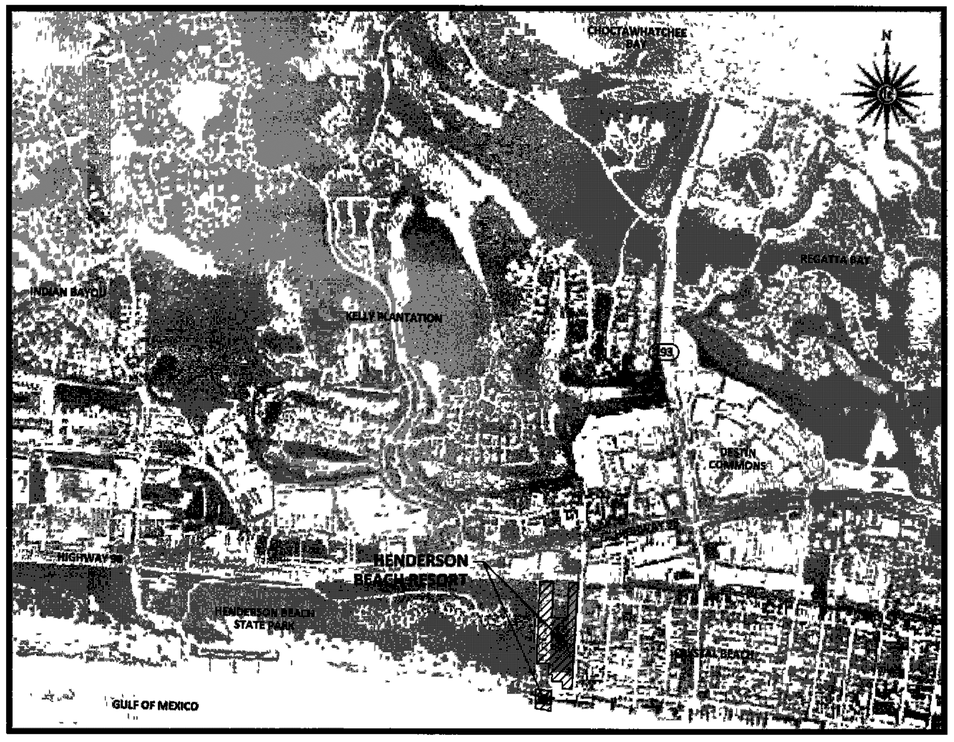
BENCHMARK DATA

- BM #1 - FND 1/2" IRON PIN (ECA LB 3724)
  NORTHING 509431 2840
  EASTING 1359813 5710
  ELEVATION 17 62 (NAVD 1988)
- BM #2 - FND 1/2" IRON PIN (SEAS LB 7191)
  NORTHING 508853 8420
  EASTING 1359479 9490
  ELEVATION 17 66 (NAVD 1988)
- BM #3 FND 4"X4" CONCRETE MONUMENT (LB 3292)
  NORTHING 508461 0660
  EASTING 1359472 4530
  ELEVATION 15 99 (NAVD 1988)
- BM #4 SANITARY SEWER MANHOLE LID
  NORTHING 508147 5100
  EASTING 1359699 8590
  ELEVATION 17 07 (NAVD 1988)

CONSTRUCTION PLANS FOR:

HENDERSON BEACH RESORT

UNSECTIONALIZED, TOWNSHIP 2 SOUTH, RANGE 22 WEST
OKALOOSA COUNTY, FLORIDA



VICINITY MAP N.T.S.

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CONSTRUCTION NOTES

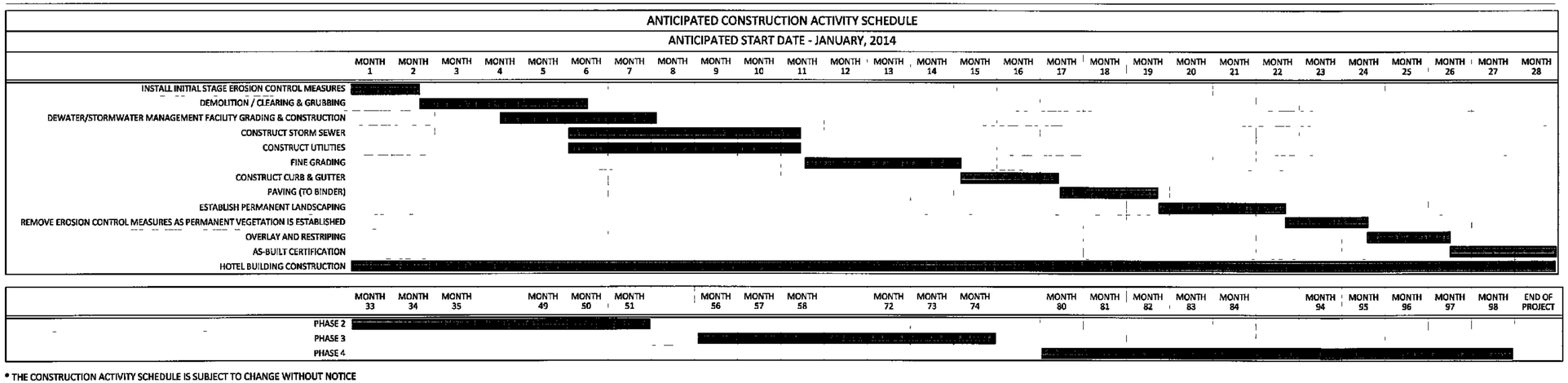
1. CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS AT ALL TIMES ALONG OKALOOSA COUNTY RIGHT OF-WAYS
2. NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN PUBLIC RIGHT OF WAY
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC RIGHT OF-WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO THE PUBLIC RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE
4. CONTRACTOR SHALL MARK ALL CROSSWALKS AND MULTI USE PATH CROSSINGS TO INDICATE THEM AS A PEDESTRIAN PATHWAY AFTER THE FINAL ASPHALT IS IN PLACE
5. NOTHING SHALL BE ERECTED, PLACED, PARKED, PLANTED, OR ALLOWED TO GROW IN SUCH A MANNER AS TO MATERIALLY IMPEDE VISION BETWEEN A HEIGHT OF TWO FEET AND TEN FEET ABOVE THE GRADE, MEASURED AT THE CENTERLINE OF THE INTERSECTION FOR CLEAR VISIBILITY TRIANGLE
6. PARTY RESPONSIBLE FOR MONITORING CONSTRUCTION DUNAVANT GULF, LLC OR ITS AGENTS
7. PARTY RESPONSIBLE FOR SUBMITTING TO THE DISTRICT, THE NOTICE OF CONSTRUCTION COMMENCEMENT AND AS BUILT CERTIFICATIONS FOR PROJECT DUNAVANT GULF, LLC OR ITS AGENTS
8. EROSION CONTROL & SEDIMENT PROTECTION IS THE RESPONSIBILITY OF CONTRACTOR

Planning 14-08-SP

APPROVED
MAY 28 2014
City of Destin
Technical Review Team

No changes shall be made to, and construction shall not deviate from these approved plans without prior written approval from the City of Destin Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

PROJECT SCHEDULE



* THE CONSTRUCTION ACTIVITY SCHEDULE IS SUBJECT TO CHANGE WITHOUT NOTICE

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INNERLIGHT ENGINEERING CORPORATION
5450 NORTH W STREET | PENSACOLA | FLORIDA | 32505

HENDERSON BEACH RESORT
DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID E. SMITH
LICENSE No. 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE
COVER SHEET

SHEET NUMBER
1 OF 36

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (ILC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED ILC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT

GENERAL NOTES

1 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

2 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, IN WRITING, BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA ENGINEER WILL HAVE 7 DAYS TO PROVIDE A RESPONSE

3 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

4 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 DOCUMENTS ALL REPAIRS MUST BE MADE TO THE SATISFACTION OF THE RESPECTIVE OWNER

5 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 SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT CONDITIONS THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT

6 ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS BY REFERENCE

7 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 OFFSETS OBTAINED THROUGH COMPUTER GENERATION 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

8 THE CONTRACTOR SHALL OBTAIN AND HAVE ONSITE ALL PERMITS PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, F D E P , F D O T , AND THE LOCAL GOVERNMENT THE CONTRACTOR SHALL OBTAIN ALL OTHER REQUIRED PERMITS

9 PRIOR TO COMMENCING CONSTRUCTION OR DEMOLITION / LAND CLEARING ACTIVITIES, CONTRACTOR SHALL INSTALL ANY REQUIRED SILT FENCING OR BALED HAY BARRIERS (F D O T INDEX 102) FOR SILT CONTROL THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK LOCATION SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD

10 DEWATERING SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, WATER MAIN ETC , OR TO PREVENT LATERAL MOVEMENT OF MATERIAL UNDER CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE COMPREHENSIVE PLANS FOR DE- WATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION DISCHARGE OF GROUNDWATER TO SURFACE WATERS OF THE STATE REQUIRES A PERMIT UNDER F A C 62-621 300(2) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ANALYSIS OF GROUND WATER IN ACCORDANCE WITH THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON CONTAMINATED SITE ACTIVITY - TABLE 1, AND FILING APPROPRIATE NOTIFICATIONS TO THE FDEP INDUSTRIAL WASTEWATER DIVISION

11 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION UNLESS OTHERWISE DIRECTED

12 CONTRACTOR SHALL OBTAIN, IF AVAILABLE, AND REVIEW ALL AVAILABLE GEOTECHNICAL REPORTS PRODUCED FOR THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION IF NO GEOTECHNICAL REPORTS ARE AVAILABLE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SITE SOIL CONDITIONS PRIOR TO CONSTRUCTION

13 CONTRACTOR IS RESPONSIBLE FOR PROVIDING SIGNED AND SEALED RECORD DRAWINGS SHOWING ALL IMPROVEMENTS CONSTRUCTED UNDER THIS CONTRACT RECORD DRAWINGS SHALL INCLUDE BOTH ABOVE GROUND AND BURIED UTILITIES INCLUDING ANY EXISTING UTILITIES NOT SHOWN ON THESE PLANS BUT ENCOUNTERED DURING THE CONSTRUCTION PROCESS RECORD DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR CONTRACTOR SHALL CONTACT ENGINEER OF RECORD FOR SPECIFIC REQUIREMENTS

14 CONTRACTOR IS RESPONSIBLE FOR CONTINUATION OF SERVICE TO OCCUPIED BUILDINGS DURING CONSTRUCTION AND REPAIR OR REPLACEMENT OF ANY EXISTING UTILITIES IMPACTED BY CONSTRUCTION

15 IF WELLS ARE ENCOUNTERED ON SITE, THEY SHALL BE ABANDONED BY A FLORIDA CERTIFIED WELL DRILLER USING ABANDONMENT PROCEDURES AND PERMITTING PROCESS OF THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER APPLICABLE REGULATORY AGENCY

16 IF APPLICABLE, ANY WELLS PROPOSED ONSITE, I E IRRIGATION, GEOTHERMAL, ETC SHALL BE PERMITTED APPROPRIATELY THROUGH THE LOCAL WATER MANAGEMENT DISTRICT PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED

17 CONTRACTOR SHALL CALL BEFORE DIGGING TO SUNSHINE STATE ONE CALL OF FLORIDA AT 800 432-4770

18 PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION ACTIVITIES, CONTRACTOR IS TO INSTALL ADEQUATE BARRIERS TO RESTRICT PUBLIC AREAS IN AREAS WHERE CONSTRUCTION ACTIVITIES ARE DIRECTLY ADJACENT TO HIGH TRAFFIC ROUTES, MAY RESULT IN THE CREATION OF DUST OR PROJECTILES, SOLID BARRIERS (SUCH AS CANVAS OR PLYWOOD) MUST BE USED

HANDICAP ACCESSIBILITY

1 HANDICAP RAMPS AND CROSSWALKS PER THE LATEST FLORIDA ACCESSIBILITY CODE, A D A AND FDOT STANDARD INDEX #304 ARE REQUIRED AT ALL PEDESTRIAN CROSSING LOCATIONS

ARCHITECTURAL COORDINATION

1 WHEN APPLICABLE, ARCHITECTURAL PLANS SHALL SUPERSEDE THESE PLANS WITH RESPECT TO ALL BUILDING DIMENSIONS AND BUILDING HARDSCAPE INTERFACE IN CASE OF CONFLICT AND PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR CONTACTING BOTH THE ENGINEER AND ARCHITECT IMMEDIATELY

STRUCTURAL COORDINATION

1 WHEN APPLICABLE, CONTRACTOR SHALL REFER TO THE CONSTRUCTION DETAILS AND SPECIFICATIONS OF THE APPLICABLE STRUCTURAL PLANS FOR ALL SITE RETAINING WALLS AND OTHER STRUCTURAL COMPONENTS

SIGNAGE

1 PROJECT SIGNS SHALL MEET ALL APPLICABLE REQUIREMENTS BASED ON LOCAL SIGN ORDINANCE

2 CONTRACTOR IS RESPONSIBLE FOR SIGN PERMITTING

DEMOLITION

1 ALL EXISTING CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS

2 WHERE PAVEMENT IS TO BE REMOVED AND REPLACED, AS INDICATED ON THE PLANS OR DIRECTED IN THE FIELD, ALL EXISTING MARKINGS AND TRAFFIC LOOPS SHALL ALSO BE REPLACED THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK COST SHALL BE INCLUDED IN RELATED ITEMS OF WORK

3 ALL EXISTING PAVEMENT AND DRIVEWAY PAVEMENT TO BE REMOVED SHALL BE SAW CUT

4 REPAIR ALL EXISTING DRIVEWAYS CROSSED BY UTILITY CONSTRUCTION TO MATCH EXISTING CONSTRUCTION

5 CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS

6 ANY DISTURBED MAIL BOXES OR SIGNS MUST BE REINSTALLED TO EXISTING OR ACCEPTABLE CONDITION AT THE CONTRACTOR'S EXPENSE

7 ALL ITEMS NOTED AS "REMOVE AND SALVAGE" ARE TO REMAIN THE PROPERTY OF OWNER CARE MUST BE TAKEN NOT TO DAMAGE SALVAGED ITEMS ITEMS ARE TO BE TRANSPORTED TO A STORAGE LOCATION SPECIFIED BY THE OWNER

SEDIMENTATION AND EROSION CONTROL NOTES

1 CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA

2 AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-12, AND/OR 17/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F D E P) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403 121- 403 161 FLORIDA STATUTES

3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER

4 TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH APPROPRIATE TECHNICAL SPECIFICATIONS IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (F D O T) STANDARD SPECIFICATIONS

5 PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTIONS 12 AND 13 IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED THEN PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE F D O T STANDARD SPECIFICATIONS SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE

6 GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF F D O T STANDARD SPECIFICATIONS THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS

7 GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF F D O T STANDARD SPECIFICATIONS HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 4 1 DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO SEEDING

8 GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF F D O T STANDARD SPECIFICATIONS GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570

9 SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, AND 983 OF F D O T STANDARD SPECIFICATIONS SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 2 1 SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM IN AREAS WITH SLOPES 4 1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED

10 TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY

11 THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF- SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER

12 CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN ADDITION TO COARSE AGGREGATE IN AREAS WHERE CON- STRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE

13 IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS

14 ALL DISTURBED AREAS NOT PAVED, SODDED OR OTHERWISE LANDSCAPED SHALL BE SEEDED, FERTILIZED AND MULCHED PER FDOT SPECIFICATIONS, SECTION 570 SEEDING RATE AND MIX SHALL COMPLY WITH THE SEEDING RATE TABLE OFF DOT STANDARD INDEX 105

15 CONTRACTOR SHALL SOD ALL SLOPES 4 1 AND STEEPER IMMEDIATELY AFTER CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER

16 ALL EXCAVATED SOILS SHALL BE STOCKPILED IN LOCATION(S) INDICATED ON PLANS IF SHOWN APPROPRIATE SEDIMENTATION AND EROSION CONTROLS SHALL BE INSTALLED AROUND THE STOCKPILE

MAINTENANCE

1 THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS SECTION 10, 12, AND 13 UNTIL THE PROJECT IS COMPLETED AND ACCEPTED IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (F D O T) STANDARD SPECIFICATIONS

2 SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE

3 ALL DISTURBED AREAS TO BE PERMANENTLY GRASSED AND RETENTION AREAS TO BE SODDED

SITE GEOMETRY NOTES

1 ALL BUILDING DIMENSIONS ARE TO THE FACE OF BUILDING UNLESS OTHERWISE NOTED

2 ALL DIMENSIONS ALONG CURB LINES ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED

STORMWATER MANAGEMENT NOTES

1 JUNCTION BOXES OUTSIDE THE RIGHT OF WAY MUST BE CAST IRON CAPABLE OF HANDLING LIVE LOADS AND BE CAST WITH "STORM" ON THE COVER

PAVING, GRADING & EARTHWORK NOTES

1 IN EXCAVATING STREETS AND DRIVEWAYS THAT HAVE BEEN SURFACED WITH SAND-CLAY, CLAY GRAVEL, OR OTHER BASE COURSE, SUCH BASE MATERIALS SHALL BE EITHER STOCKPILED AND KEPT SEPARATE FROM THE EARTH EXCAVATED OR THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE NEW BASE OF LIKE KIND AND EQUAL QUALITY

2 CONTRACTOR MUST SALVAGE EXISTING TOP SOIL WITHIN PROJECT SITE OR REPLACE AT HIS OWN EXPENSE

3 ANY DEFICIENCY IN THE QUANTITY OF MATERIAL FOR BACKFILLING 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 PAVED STREETS

4 CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION CLEAR AND GRUB SHALL CONSIST OF THE REMOVAL OF ALL DELETERIOUS MATERIAL INCLUDING TREES, ROOTS, TOPSOIL, ETC

5 ORGANIC, UNSUITABLE SOILS BENEATH THE PAVED AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE FILL MATERIAL SHALL BE FREE OF ORGANICS, RUBBLE, CLAY, OR OTHER DELETERIOUS MATTER

6 THE PAVEMENT SUBGRADE SHOULD BE STABILIZED TO A MINIMUM LBR OF 40 UNLESS OTHERWISE SPECIFIED MATERIAL FOR STABILIZATION SHALL BE AS CALLED OUT ON THE PLANS, OR OTHER MATERIAL APPROVED BY THE ENGINEER AND THE GEOTECHNICAL ENGINEER COMPACTION OF THE SUBGRADE SHALL BE BY A HEAVY VIBRATORY ROLLER (MINIMUM STATIC WEIGHT OF FIVE TONS) WITH A MINIMUM OF 10 PASSES WITH A 20% OVERLAP BETWEEN PASSES THE VIBRATORY ROLLER SHOULD ALSO BE EQUIPPED WITH A VARIABLE FREQUENCY CONTROL TO OPERATE AT THE RESONANT FREQUENCY OF THE SOILS

7 ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS

8 PROPOSED SPOT ELEVATIONS REPRESENT FLOW LINE OF CURB & GUTTER OR FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS

9 CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC) EXCEPT ASPHALT

10 CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS

11 TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS OR PER APPLICABLE LOCAL GOVERNMENT OR REGULATORY AGENCY, WHICHEVER IS MORE STRINGENT SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS

12 ACCEPTANCE TESTING FOR NEW PAVEMENT, IF APPLICABLE, SHALL CONSIST OF ONE PASS OF A STANDARD 15 FOOT ROLLING STRAIGHT EDGE OPERATED WHILE THE PAVEMENT IS STILL HOT ALL DEFICIENCIES IN EXCESS OF 3/16 INCH SHALL BE CORRECTED IN ACCORDANCE WITH F D O T STANDARD SPECIFICATION 330

13 AT THE OPTION OF THE OWNER, THE CONTRACTOR SHALL FLOOD ALL NEW PAVEMENT SURFACES WITH WATER AND INSPECT FOR PONDING ALL PONDED AREAS SHALL BE CORRECTED IN ACCORDANCE WITH F D O T STANDARD SPECIFICATION 330

TRAFFIC, SIGNAGE & STRIPING NOTES

1 IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO INSTALL AND MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES UNLESS APPROVED BY THE OWNER, IN WRITING, NO STREET SHALL REMAIN CLOSED TO TRAFFIC OVERNIGHT IN ADDITION, THE CONTRACTOR SHALL COOPERATE WITH LOCAL GOVERNMENT AGENCIES AND LOCAL RESIDENTS IN GAINING ACCESS TO THEIR ROADS, HOMES AND BUSINESSES DURING WORKING HOURS AND SHALL ASSIST AT ALL TIMES WHEN VEHICLES EXPERIENCE TROUBLE DUE TO CONSTRUCTION ACTIVITIES

2 THE CONTRACTOR SHALL INSTALL, INSPECT, AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC DUE TO CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE LATEST EDITION OF THE U S DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD PART 6), AND/OR IN ACCORDANCE W/FDOT STD 600, WHICHEVER IS MORE STRINGENT

3 ALL STRIPING IN THE FLORIDA STATE RIGHT OF-WAY IS TO BE THERMOPLASTIC

GENERAL TESTING NOTES

1 TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TESTING SCHEDULE CONTAINED WITHIN THESE PLANS OR PER APPLICABLE LOCAL GOVERNMENT OR REGULATORY AGENCY, WHICHEVER IS MORE STRINGENT SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS

2 COPIES OF THE TEST REPORTS FOR ASPHALT, BASE, SUBGRADE, FILL AND BACKFILL UNDER ROADWAYS AND STRUCTURES, AND UTILITY TRENCHES SHALL BE PROVIDED DIRECTLY TO THE ENGINEER FOR APPROVAL IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE TESTING AND INSURE THAT ALL APPLICABLE TESTS HAVE BEEN PERFORMED FAILURE TO OBTAIN TEST RESULTS AT ANY POINT OF CONSTRUCTION WILL REQUIRE THE REMOVAL OF THE IMPROVEMENT AND REPLACEMENT BY CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER IT SHOULD BE NOTED THAT THE APPLICABLE LOCAL GOVERNMENT MAY REQUIRE COMPACTION TESTING IN ACCORDANCE WITH THE TESTING SCHEDULE FOR UTILITY TRENCH FILL AND BACKFILL OR ACCORDING TO THE LOCAL GOVERNMENTAL STANDARDS, WHICHEVER IS MORE STRINGENT

TESTING SCHEDULE (FOR ALL WORK OUTSIDE THE FLORIDA STATE DEPARTMENT OF TRANSPORATION RIGHT-OF-WAY)

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENT	TESTING FREQUENCY
UTILITY TRENCH FILL & BACKFILL	MAXIMUM DENSITY/OPTIMUM MOISTURE CONTENT	AASHTO T 180 ASTM D 1557	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T 191 / AASHTO T 204 ATM D 1556 / ASTM D 2937	95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT	ONE PER 500 L F HORIZONTAL OR ONE PER 750 S Y WITH A MINIMUM OF 3 TESTS, ALTERNATING 12 IN LIFTS
	SOIL GRADATION	AASHTO M 92	(15% PASSING NO 200 SEIVE)	ONE PER SOIL TYPE
FILL & BACKFILL UNDER ROADWAYS AND STRUCTURES	MAXIMUM DENSITY/OPTIMUM MOISTURE CONTENT	AASHTO T 180 ASTM D 1557	N/A	PER SOIL TYPE
	FIELD DENSITY	AASHTO T 191 / AASHTO T 204 ASTM D 1556, D 2937 D2922	98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT	ONE PER 500 L F HORIZONTAL OR ONE PER 750 S Y WITH A MINIMUM OF 3 TESTS
	SOIL GRADATION	AASHTO M 92	(15% PASSING NO 200 SEIVE)	ONE PER SOIL TYPE
SUBGRADE	BEARING VALUES	LBR FDOT	40 (MIN)	ONE PER SITE OR AT MATERIAL CHANGES
	MAXIMUM DENSITY/OPTIMUM MOISTURE CONTENT	AASHTO T 180 ASTM D 1557	N/A	PER SOIL TYPE
	FIELD DENSITY & THICKNESS	ASTM D 1556 OR ASTM D 2937	98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT	ONE PER 500 L F HORIZONTAL OR ONE PER 750 S Y WITH A MINIMUM OF 3 TESTS
BASE (SAND ASPHALT)	MARSHALL STABILITY TESTS	FDOT FM S 511	500 LB (MIN)	ONE PER SOURCE OR AS MATERIAL CHANGES
	FIELD DENSITY AND THICKNESS	ASTM D 1559	95% OF LAB DENSITY AS DETERMINED BY MARSHALL METHOD	ONE PER 300 L F HORIZONTAL OR ONE PER 750 SY WITH A MINIMUM OF 3 TESTS
BASE (SAND CLAY)	BEARING VALUES	LBR FDOT	70 (MIN)	ONE PER SITE OR AS MATERIAL CHANGES
	MAXIMUM DENSITY/OPTIMUM MOISTURE CONTENT	AASHTO T 180 ASTM D-1557	N/A	PER SOIL TYPE
	FIELD DENSITY & THICKNESS	AASHTO T-191 OR AASHTO T 204 ASTM D 1556 OR ASTM D 2937	98% MAXIMUM DENSITY	ONE PER 500 L F HORIZONTAL OR ONE PER 750 S Y WITH A MINIMUM OF 3 TESTS
ASPHALT	MATERIALS QUALITY BITUMEN CONTENT, AND GRADATION	AASHTO T 164 5 30 ASTM D 2172	FDOT SPEC. 330 331 916	FDOT SPEC 331 916
	FIELD DENSITY & THICKNESS	ASTM D 2950	95% OF LAB DENSITY	ONE PER 500 L F HORIZONTAL OR ONE PER 750 S Y WITH A MINIMUM OF 3 TESTS
	AGGREGATE CERTIFICATION	N/A	FDOT SPEC 901,902	ONE PER SUPPLIER
	MARSHALL STABILITY AND DENSITY	ASTM D 1559	FDOT SPEC 331	ONE PER DAY
CNCRETE (MISC. SITE WORK*)	SLUMP TEST	AASHTO T 119 ASTM C-143	2" TO 3"	AS REQUIRED BY SOILS ENGINEER OR ONE PER SET OF CYLINDERS
	COMPRESSIVE STRENGTH	AASHTO T 23 ASTM C 31	3000 PSI	ONE SET OF 3 CYLINDERS PER 50 CY PER DAY
	AIR CONTENT	AASHTO T 199	3% 6%	ONE PER SET OF CYLINDERS

*NOTE CONCRETE FOR SITE WORK INCLUDES BUT IS NOT LIMITED TO CURB & GUTTER SIDEWALKS, ETC. EXCEPT CONCRETE PAVEMENT

APPROVED
MAY 2 3 2014
City of Destin
Technical Review Team

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HENDERSON BEACH RESORT

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DATE 11 15 2013
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SHEET TITLE
GENERAL NOTES (1 OF 2)

SHEET NUMBER

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (IEC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED IEC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT

GENERAL UTILITY NOTES

1 ALL UTILITIES MUST BE INSTALLED PRIOR TO THE CONSTRUCTION OF CURB, BASE AND PAVEMENT APPROVAL BY LOCAL AUTHORITY MUST BE OBTAINED PRIOR TO FURTHER CONSTRUCTION

2 CONTRACTOR IS TO PROVIDE A SITE ELECTRICAL PLAN TO OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION (EXCLUDING DEMOLITION) CONDUITS FOR ELECTRICAL WORK IN CIVIL PLANS ARE ONLY TO NOTE AN INTENT TO SERVE SPECIFIC AREAS SITE ELECTRICAL PLAN SHOULD BE DEVELOPED IN COORDINATION WITH OWNER TO ANTICIPATE DEMAND AND ASSURE SUCH WORK MEETS APPLICABLE CODES

3 SITE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH LIGHTING, IRRIGATION AND ELECTRICAL CONTRACTORS REGARDING REQUIRED CONDUITS

4 PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE PIPE LENGTHS ARE MEASURED IN LINEAR FEET (NOTED AS LF)

5 ALL MANHOLES, INLETS AND CLEANOUTS SUBJECT TO VEHICULAR LOADING, INCLUDING THOSE AREAS REQUIRING FUTURE MAINTENANCE, SHALL HAVE TRAFFIC BEARING (HS-20) RINGS, COVERS, GRATES, ETC

6 ALL STORM INLETS EQUAL TO OR GREATER THAN 5' DEEP SHALL BE EQUIPPED WITH ACCESS RUNGS

7 ALL STORM SEWER STUB-OUTS TO BE CLOSED W/ MASONRY SEAL AT THE STUB END

8 ALL STORMWATER DRAIN PIPE JOINTS WITHIN 6 FEET OF PAVING SHALL BE WRAPPED WITH FDOT APPROVED FABRIC UNLESS OTHERWISE NOTED OR STATED BY THE ENGINEERS

9 WATER AND WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL AUTHORITY SPECIFICATIONS, UNLESS OTHERWISE SHOWN ON PLANS

10 A MINIMUM 18" COVER IS REQUIRED ON ALL PROPOSED WATER AND SANITARY LINES AND SERVICES FROM FINISHED GRADES, INCLUDING SWALES AND STORMWATER RETENTION / DETENTION AREAS

11 POTABLE WATER MAINS, SERVICES AND VALVES SHALL BE MARKED BY INSTALLATION OF NO 12 COPPER INSULATED TRACER WIRE IN TRENCH ABOVE PIPE TRACER WIRE SHALL BE INSTALLED THROUGHOUT THE ENTIRE SYSTEM

12 CONTRACTOR SHALL INSTALL SANITARY SEWER MAINS AT UNIFORM SLOPE BETWEEN MANHOLES SPECIFIED ON THE UTILITY PLAN ALIGNMENT OF PIPE BETWEEN MANHOLES SHALL BE STRAIGHT

13 FIRE HYDRANTS SHALL BE AMERICAN DARLING, RED

14 LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEWER PIPES AND MANHOLES

14 a A SEWER PIPES SHALL BE TESTED BY EITHER INFILTRATION OR EXFILTRATION, AS APPROPRIATE, SO THAT TEST IS PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET TEST DURATION SHALL BE A MINIMUM OF 2 HOURS DURATION AND MAXIMUM ALLOWABLE LEAKAGE (IN OR OUT OF PIPE) SHALL NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY (EQUIVALENT TO 0 157 GALLONS PER INCH DIAMETER PER 100 FEET OF PIPE PER HOUR)

14 b MANHOLES SHALL BE TESTED BY PLUGGING LINES IN / OUT OF THE MANHOLE AND FILLING MANHOLE TO RIM WITH WATER AFTER ALLOWING WATER TO STABILIZE FOR ONE HOUR, CONTRACTOR SHALL FILL THE MANHOLE AGAIN, THEN CHECK WATER LEVEL AFTER TWO HOURS A DROP IN WATER LEVEL OF ONE INCH (1") PER FOOT OF MANHOLE DEPTH PER HOUR IS CONSIDERED ACCEPTABLE

15 IF PIPING OR MANHOLE FAIL LEAKAGE TESTS, CONTRACTOR SHALL TAKE CORRECTIVE ACTION TO RESEAL AND THEN RETEST

16 HYDROSTATIC TESTING OF WATER MAINS AND APPURTENANCES SHALL CONSIST OF BOTH PRESSURE AND LEAKAGE TESTS OF 2 HOUR DURATION EACH AT 150 PSIG

17 PRESSURE TESTS WILL BE CONDUCTED WITH A PRESSURE LOSS OF NOT MORE THAN 2 PSIG REGARDLESS OF PIPE LENGTH TESTED

18 LEAKAGE TESTS WILL BE CONDUCTED AFTER PRESSURE TESTS PIPE INSTALLATION WILL NOT BE ACCEPTED IF LEAKAGE IS GREATER THAN DETERMINED BY THE FOLLOWING FORMULA FROM ANSI/AWWA C-600 LATEST $L=(SD(P)^{½})/133200$ WHERE L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR, S = LENGTH OF PIPELINE TESTED IN FEET, D = NOMINAL DIAMETER OF PIPE IN INCHES, P = AVERAGE PRESSURE DURING LEAKAGE TEST IN PSIG

19 IF LEAKAGE IS GREATER THAN SPECIFIED LIMIT, CONTRACTOR SHALL TAKE CORRECTIVE ACTION TO LOCATED AND REPAIR DEFECTIVE MATERIAL. VISIBLE LEAKS WILL BE CORRECTED REGARDLESS OF TOTAL LEAKAGE

20 ALL WATER PIPES AND FITTINGS WILL BE THOROUGHLY DISINFECTED PRIOR TO BEING PLACED INTO SERVICE DISINFECTION WILL FOLLOW APPLICABLE PROVISIONS OF PROCEDURES ESTABLISHED IN AWWA C-651-LATEST, RULE 62-555 345, F A C AND WILL BE IN ACCORDANCE WITH BOTH STATE AND LOCAL REQUIREMENTS

21 WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES, UTILITY POLES, ETC THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE EXISTING FACILITY, UTILITY POLE, ETC THE CONTRACTOR SHALL GIVE PROPER NOTICE TO THE UTILITIES 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

22 THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING, EXISTING FACILITIES REMOVAL AND REPLACEMENT, SUPPORT ON RELOCATION, AND WORK INVOLVED IN WETLAND AREAS WHERE IT IS NECESSARY TO CROSS OVER OR UNDER EXISTING FACILITIES, A MINIMUM OF 6" CLEARANCE SHALL BE PROVIDED BETWEEN THE NEW AND EXISTING UTILITY IT MAY BE NECESSARY AT SUCH LOCATIONS TO PROVIDE DUCTILE IRON PIPE FOR THE NEW UTILITY AND/OR SUPPORT AS SHOWN IN THE PLANS THIS WORK WILL BE AS DIRECTED IN THE FIELD OR SHOWN ON THE PLANS AND SHALL BE PAID FOR UNDER THE UNIT PRICES BID FOR THE VARIOUS SIZES AND TYPES OF PIPE THERE SHALL BE NO ADDITIONAL COMPENSATION FOR EXTRA DEPTH REQUIRED TO CROSS UNDER EXISTING FACILITIES

23 WHEN PIPE DEFLECTION IS USED TO CHANGE ALIGNMENT ON GRADE OF PRESSURE PIPE, DEFLECTION SHALL NOT EXCEED 50% OF THE MANUFACTURER'S MAXIMUM RECOMMENDED DEFLECTION IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE THE ACTIVITIES OF THE UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO TV, TELEPHONE, GAS, POWER, ETC , AND PROVIDE IN ACCORDANCE WITH THE UTILITY COMPANY ANY NECESSARY CONDUITS FOR CROSSINGS UNDER PAVEMENT NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS SERVICE

24 ANY DAMAGE CAUSED BY THE UTILITY COMPANY TO THE IMPROVEMENTS OF THE CONTRACTOR SHALL BE REPAIRED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT REPAIRS ARE PERFORMED, EITHER BY THE CONTRACTOR OR THE UTILITY COMPANY AT NO COST TO THE OWNER

REFERENCE SOURCES	
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AASHTO	AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

POLLUTION CONTROL

1 POLLUTION CONTROL MEASURES FOR THE SITE INCLUDE PROPER WASTE DISPOSAL, PROPER MANAGEMENT OF CHEMICAL STORAGE TANKS, EROSION FROM EGRESSES, SANITARY SEWAGE DISPOSAL AND ON SITE VEHICLE STORAGE AND MAINTENANCE NO DEBRIS THAT IS GENERATED WILL BE BURIED ON SITE

1 1 WASTE DISPOSAL SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE PROPERLY DISPOSED OF OR REMOVED FROM THE SITE TO AN APPROPRIATE LANDFILL, AND SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT CLEANUP AND DISPOSAL OF ALL WASTE MATERIALS (SOLID OR HAZARDOUS) SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE APPROPRIATE ON SITE OR OFF-SITE LOCATION THE INDIVIDUAL WHO MANAGES THE DAY-TO DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED

1 2 OFF-SITE VEHICLE TRACKING OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL A STABILIZED CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE CLEANED AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN ON AN AS NEEDED BASIS A CONCRETE TRUCK WASHOUT LOCATION SHALL BE IN A TEMPORARY TRUCK WASH AREA LOCATED AT THE SITE ENTRANCE WASHOUT SHALL BE CONTAINED WITHIN A PIT OR TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED OR NON-DISTURBED AREAS

1 3 SANITARY WASTE AS SITE CONDITIONS WARRANT, ALL SANITARY WASTE WILL BE MANAGED APPROPRIATELY BY EITHER AN ON-SITE PORTABLE UNIT(S) COLLECTED AT A MINIMUM OF ONCE PER WEEK BY THE LOCAL MUNICIPALITY AND/OR STATE OF GEORGIA LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, OR WITH A MANAGEMENT PLAN THAT ROUTES INDIVIDUALS TO A LEGAL AND APPROPRIATE SANITARY WASTE FACILITY

1 4 SPILL REMEDIATION MANAGEMENT PRACTICES THE FOLLOWING ARE THE BEST MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES, AS WELL AS A CLEANUP PLAN IF NECESSARY

RISK REDUCTION PETROLEUM, FERTILIZERS AND PAINT PRODUCTS

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB
- PRODUCTS WILL BE STORED IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL, AND MUST BE KEPT OFF THE GROUND IN SECURELY FASTENED LIDS
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS
- ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE RETAINED
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED
- ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE
- ALL PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR FACILITIES SHOULD BE COVERED AND ACCESS RESTRICTED TO EMPLOYEES ONLY
- FERTILIZERS USED WILL BE APPLIED ONLY IN MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS
- KEEP FLAMMABLE LIQUIDS IN CLOSED CONTAINERS WHEN NOT IN USE
- USE PROPER RECEPTACLES TO DISPOSE OF CONTAMINATED WASTES THAT CANNOT BE RECYCLED IN CONFORMANCE WITH FEDERAL, STATE AND/OR LOCAL REGULATIONS
- DO NOT DUMP PETROLEUM PRODUCT WASTE, PESTICIDES, FERTILIZERS, PAINTS OR OTHER CHEMICALS INTO SEWERS, STORM DRAINS OR DRAINAGE CHANNELS
- PREVENT SPILLS OF PETROLEUM PRODUCTS FROM OCCURRING BY TAKING SPECIAL CARE WHEN HANDLING, AND KEEP FACILITIES AND EQUIPMENT MAINTAINED
- USE SPILL PROOF CONTAINERS AND FUNNELS WHEN TRANSFERRING FLUIDS FROM ONE CONTAINER TO ANOTHER
- POST INFORMATIONAL MATERIALS REGARDING CHEMICAL CONTROL

SPILL CONTROL PLAN THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP

- EMERGENCY CONTACT NUMBERS FOR SPILLS SHALL BE AVAILABLE ON-SITE
- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE ON SITE
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE AVAILABLE ON-SITE
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
- KEEP TRAINED STAFF IN SPILL RESPONSE ON CALL
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE LOCAL OR FEDERAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED

2 THE FOLLOWING MATERIALS OR SUBSTANCES ARE ANTICIPATED TO BE PRESENT ON-SITE DURING CONSTRUCTION CONCRETE AND ASPHALT, GRADED AGGREGATE BASE AND OTHER AGGREGATES, DETERGENTS, PAINTS (ENAMEL AND LATEX), METAL STUDS, CONCRETE, TAR, FERTILIZERS, PETROLEUM BASED PRODUCTS, CLEANING SOLVENTS, WOOD, MASONRY BLOCK, ROOFING SHINGLES

3 ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR EMERGENCY CONTACT NUMBERS AND PROCEDURES FOR SPILLS SHALL BE AVAILABLE ON-SITE

4 WASTE DISPOSAL SOLID MATERIALS, INCLUDING BUILDING MATERIALS WILL BE DISPOSED OF OFF SITE AND THEREFORE WILL NOT BE DISCHARGED TO WATERS OF THE STATE FROM THE CONSTRUCTION SITE

5 ALL POTENTIAL POLLUTION SOURCES WILL BE IDENTIFIED, INCLUDING PETROLEUM PRODUCT STORAGE, CONCRETE HANDLING, HERBICIDES AND ANY OTHER POLLUTANTS WHICH HAVE THE POTENTIAL TO BE EXPOSED TO RAINFALL AND BE DISCHARGED IN THE STORM WATER RUNOFF PRACTICES WILL BE IMPLEMENTED TO ENSURE THE REDUCTION OF THESE POLLUTANTS IN STORM WATER DISCHARGES

GENERAL CONSTRUCTION NOTE

ALL WORK WITHIN THE OKALOOSA COUNTY RIGHT-OF-WAY SHALL BE PER FDOT 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT 2014 DESIGN STANDARDS

LINETYPE LEGEND

LINE	DESCRIPTION
	EXISTING FEATURES
	PROPOSED FEATURES
	EXISTING RIGHT OF-WAY
	PROPOSED RIGHT OF WAY
E	EXISTING ELECTRIC
	PROPOSED ELECTRIC
FO	EXISTING FIBER OPTIC
F	PROPOSED FIBER OPTIC
GAS	EXISTING GAS MAIN
GAS	PROPOSED GAS MAIN
SS	EXIST SANITARY SEWER MAIN
SS	PROP SANITARY SEWER MAIN
FM	EXISTING FORCE MAIN
FM	PROPOSED FORCE MAIN
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
W	EXISTING WATER MAIN
W	PROPOSED WATER MAIN
F	PROPOSED FIRE MAIN
IR	PROPOSED IRRIGATION MAIN
X	EXISTING FENCE
X	PROPOSED FENCE
O	PROPOSED CHAIN LINK FENCE
	PROPOSED WOOD FENCE
SF	SILT FENCE
C	EXISTING COMMUNICATION
C	PROPOSED COMMUNICATION
100	EXISTING CONTOURS
19	PROPOSED CONTOURS

SYMBOLS LEGEND

EXISTING PROPOSED

- POWER POLE
- COMBINATION POLE
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- SIGNAL POLE
- LIGHT POLE
- GUY ANCHOR
- GAS METER
- GAS VALVE
- SANITARY SEWER MANHOLE
- SANITARY SEWER FLOW ARROW
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- STORM MANHOLE
- CURB INLET
- GRATE INLET
- STORM FLOW ARROW

ABBREVIATIONS LEGEND

- HDPE - HIGH DENSITY POLYETHYLENE
- RCP - REINFORCED CONCRETE PIPE
- CMP - CORRUGATED METAL PIPE
- EOP - EDGE OF PAVEMENT
- FOC - FACE OF CURB
- BOC - BACK OF CURB
- R - RADIUS
- OHP - OVERHEAD POWER
- LF - LINEAR FEET
- CONC - CONCRETE
- OC - ON CENTER
- FACE - BUILDING FACE
- RWP - RIGHT OF WAY PAVEMENT
- HDP - HEAVY DUTY PAVEMENT
- EXP - EXISTING PAVEMENT

GRADING LEGEND

- TC - TOP OF CURB
- BC - BOTTOM OF CURB
- TW - TOP OF WALL
- BW - BOTTOM OF WALL
- EX - EXISTING GRADE
- INV - INVERT
- CO - CLEANOUT
- MH - MANHOLE
- C & G - CURB & GUTTER
- WCR - WHEEL CHAIR RAMP

APPROVED MAY 23 2014 City of Destin Technical Review Team

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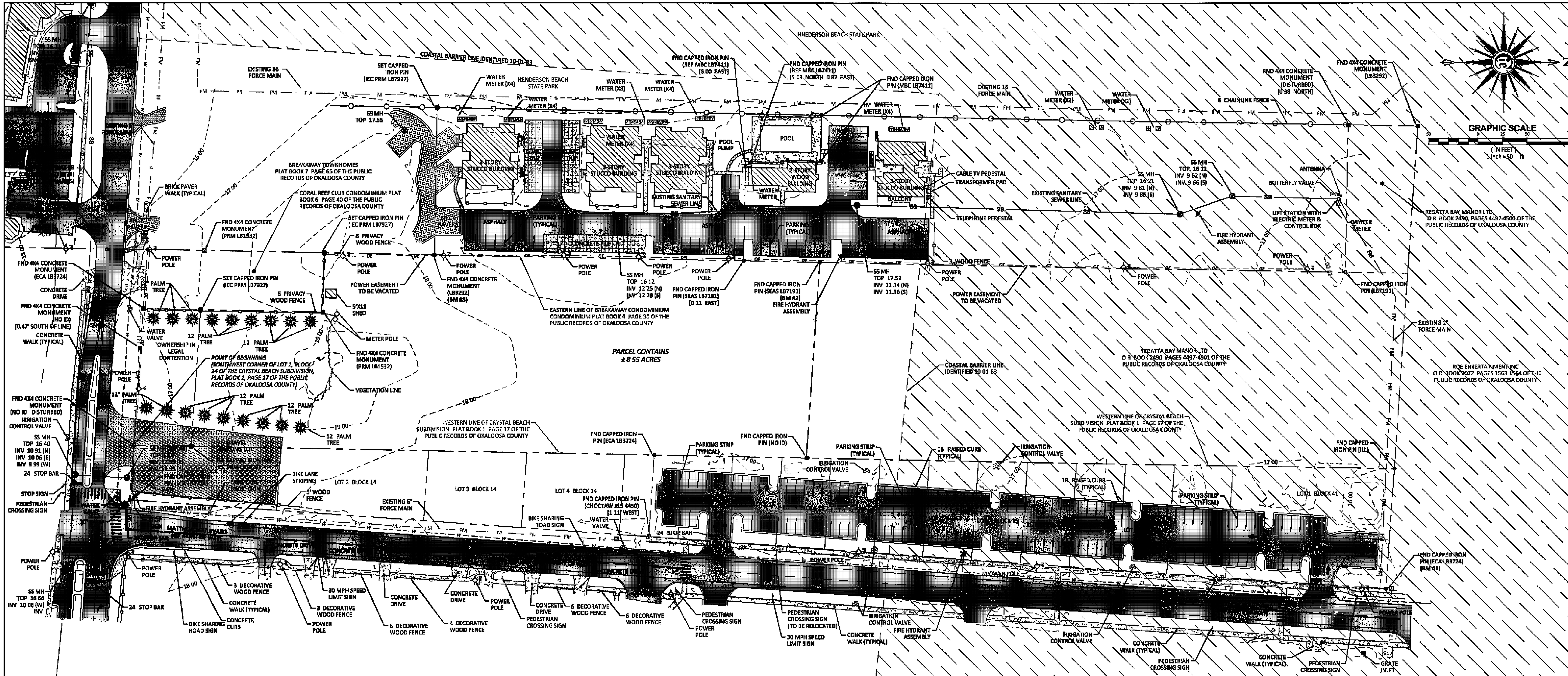
SEAL
DAVID E SMITH LICENSE No 48927 STATE OF FLORIDA PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP 5450 NORTH W STREET PENSACOLA, FL 32505

SHEET TITLE
GENERAL NOTES (2 OF 2)

SHEET NUMBER

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (IEC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED IEC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT



LEGAL DESCRIPTION (AS WRITTEN)

A PARCEL OF LAND BEING LOCATED IN UNSECTIONALIZED TOWNSHIP 2 SOUTH, RANGE 22 WEST, OKALOOSA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS BEGINNING AT THE SOUTHWEST CORNER OF LOT 1, BLOCK 14 OF CRYSTAL BEACH SUBDIVISION, UNSECTIONALIZED TOWNSHIP 2 SOUTH, RANGE 22 WEST, AS RECORDED IN PLAT BOOK 1, PAGE 17, OKALOOSA COUNTY, FLORIDA, ALSO BEING A POINT ON THE NORTH RIGHT OF WAY LINE OF SCENIC HIGHWAY 98 (CR 2378), THENCE DEPARTING SAID NORTH RIGHT OF WAY LINE N 01°05'08" E 58 88 FEET TO A POINT, THENCE N 86°09'54" W 139 88 FEET TO A POINT, THENCE N 01°07'18" E 124 84 FEET TO A POINT, THENCE N 88 51'35 ' W 60 37 FEET TO A POINT, THENCE N 01 05'46" E 112 41 FEET TO A POINT, THENCE N 88°54'14" W 150 29 FEET TO A POINT, THENCE N 01°05'39" E 929 22 FEET TO A POINT, THENCE S 88 54'14" E 150 32 FEET TO A POINT, THENCE S 01 05'46" W 536 37 FEET TO A POINT, THENCE S 86 05'58" E 200 15 FEET TO A POINT, THENCE N 01°05'08" E 599 86 FEET TO A POINT, THENCE S 85°56'31" E 122 86 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF MATTHEW BOULEVARD, THENCE S 04°04'12" W ALONG SAID WEST RIGHT OF WAY LINE 1284 10 FEET TO A POINT ON THE SOUTHEAST CORNER OF SAID LOT 1, BLOCK 14 OF CRYSTAL BEACH SUBDIVISION AS RECORDED IN PLAT BOOK 1, PAGE 17, OKALOOSA COUNTY, FLORIDA, ALSO BEING A POINT ON THE NORTH RIGHT OF WAY LINE OF SCENIC HIGHWAY 98 (CR 2378), THENCE N 85°53'15" W ALONG SAID NORTH RIGHT OF WAY LINE 55 92 FEET TO THE POINT OF BEGINNING SAID PROPERTY CONTAINS 8 55 ACRES, MORE OR LESS

AND

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EXISTING CONDITIONS NOTES

1 THIS MAP REPRESENTS AN EXISTING CONDITIONS PLAN AND IS ONLY FOR THE LANDS DESCRIBED SOURCES OF INFORMATION USED IN THE PREPARATION OF THIS EXISTING CONDITIONS PLAN INCLUDE, EXISTING MONUMENTATION, DEED RECORDED IN OFFICIAL RECORDS BOOK 2552 - PAGE 1185 IN THE PUBLIC RECORDS OF WALTON COUNTY, FLORIDA, COMPLETION DATE OF FIELD SURVEY OCTOBER 31, 2012 AND UPDATED ON NOVEMBER 7, 2012, BY DEVON GILES, FIELD BOOK 2, PAGES 75 76

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3 NORTH AND THE BEARINGS DEPICTED HERON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM FLORIDA NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83)

4 IMPROVEMENTS ARE AS SHOWN NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND FEATURES, UNDERGROUND FOUNDATIONS, OR UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED

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FLOOD NOTE

FEDERAL EMERGENCY MANAGEMENT AGENCY (F E M A), FLOOD INSURANCE RATE MAP (F I R M) 12091C0493H, BEING PANEL 493 OF 494, EFFECTIVE DATE OF DECEMBER 6, 2002, INDICATES THAT THE SUBJECT PARCEL IS LOCATED IN ZONES "X" AND "VE" PORTIONS OF THE SITE ARE WITHIN THE COASTAL BARRIER ZONE, IDENTIFIED OCTOBER 01, 1983, AS DELINEATED NO CERTIFICATIONS ARE MADE REGARDING THE ACCURACY OF SAID F I R M

BENCHMARK DATA

BM #1 - FND 1/2" IRON PIN
(ECA LB 3724)
NORTHING 509431 2840
EASTING 1359813 5710
ELEVATION 17 62 (NAVD 1988)

BM #2 - FND 1/2" IRON PIN
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EASTING 1359479 9490
ELEVATION 17 66 (NAVD 1988)

BM #3 - FND 4"X4 ' CONCRETE MONUMENT
(LB 3292)
NORTHING 508461 0660
EASTING 1359472 4530
ELEVATION 15 99 (NAVD 1988)

BM #4 SANITARY SEWER MANHOLE LID
NORTHING 508147 5100
EASTING 1359699 8590
ELEVATION 17 07 (NAVD 1988)

EXISTING CONDITIONS LEGEND

- BRICK PAVERS
- PAVEMENT
- CONCRETE
- CONCRETE TILE
- GRAVEL
- STRUCTURE
- WITHIN COASTAL BARRIER ZONE
- -15 00- - MAJOR CONTOUR
- -16 00- - MINOR CONTOUR
- VEGETATION LINE
- WOOD FENCE
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- BOUNDARY
- SANITARY SEWER MANHOLE
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- FOUND CAPPED IRON PIN WITH CAP
- SET CAPPED IRON PIN WITH CAP

ABBREVIATIONS

R/W	RIGHT OF WAY
N	NORTH
S	SOUTH
E	EAST
W	WEST
SQ FT	SQUARE FEET
AC	ACRES
L1	LINE & NUMBER TO LINE TABLE
C1	CURVE & NUMBER TO CURVE TABLE
LB	LICENSED BUSINESS
#	NUMBER
ID	IDENTIFICATION
NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929
NAD83	NORTH AMERICAN DATUM 1983
DNR	DEPARTMENT OF NATURAL RESOURCES
ORB	OFFICIAL RECORD BOOK
PG	PAGE
ELEV / EL	ELEVATION
(R)	RECORD DIMENSION
°	DEGREES WHEN USED IN A BEARING OR ANGLE
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APPROVED
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HENDERSON BEACH RESORT

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36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID SMITH
LICENSE
NO. 68927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505
P- 850 333 4370

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EXISTING CONDITIONS PLAN (1 OF 2)

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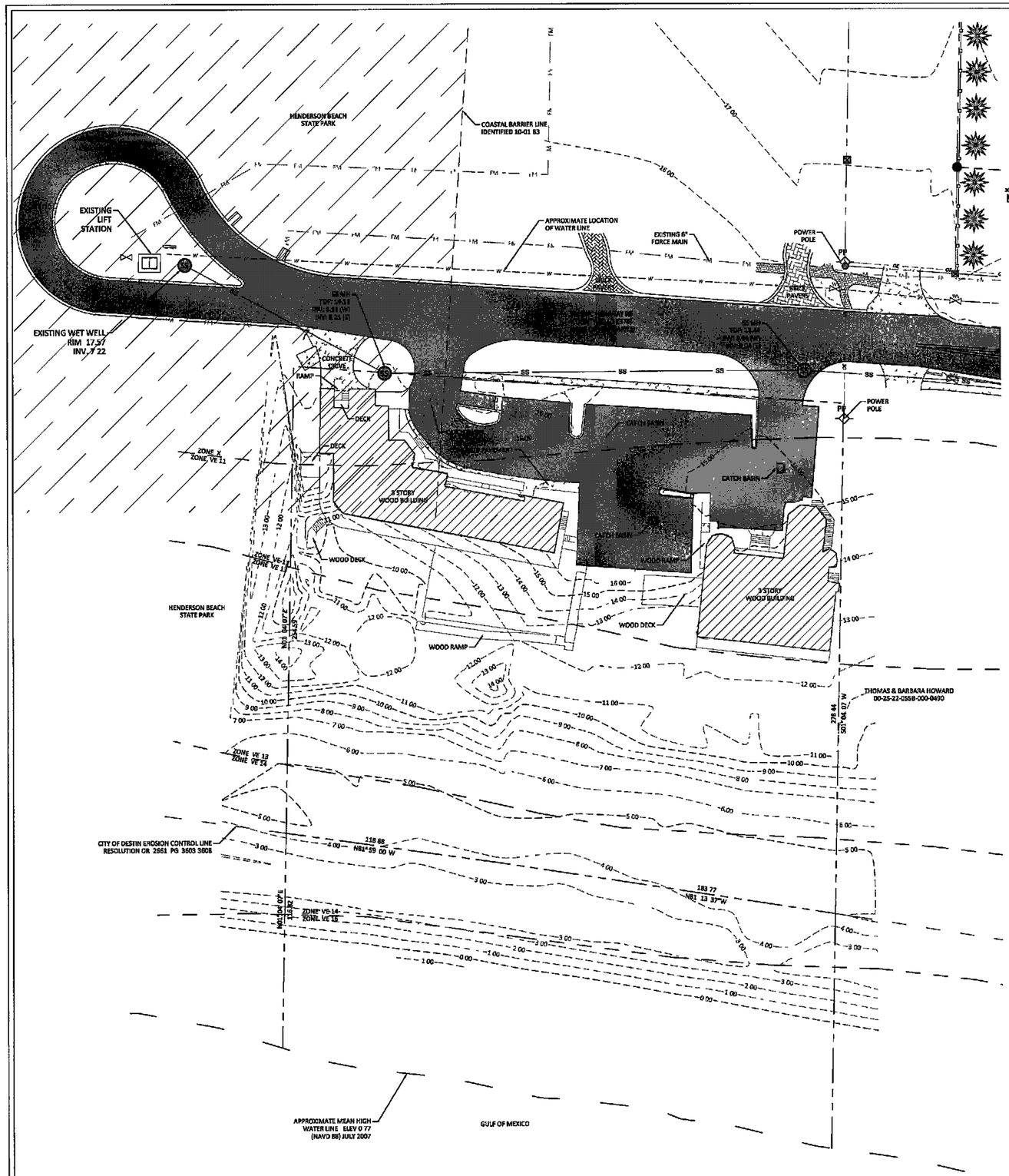

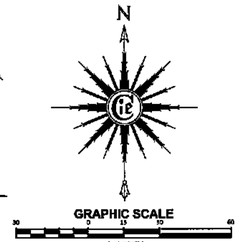

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ABBREVIATIONS

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SQ FT	SQUARE FEET	(R)	RECORD DIMENSION
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DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

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LICENSE No 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION
FLORIDA BUSINESS LICENSE
CITY OF PENSACOLA
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA FL 32505
P 850 332 4119

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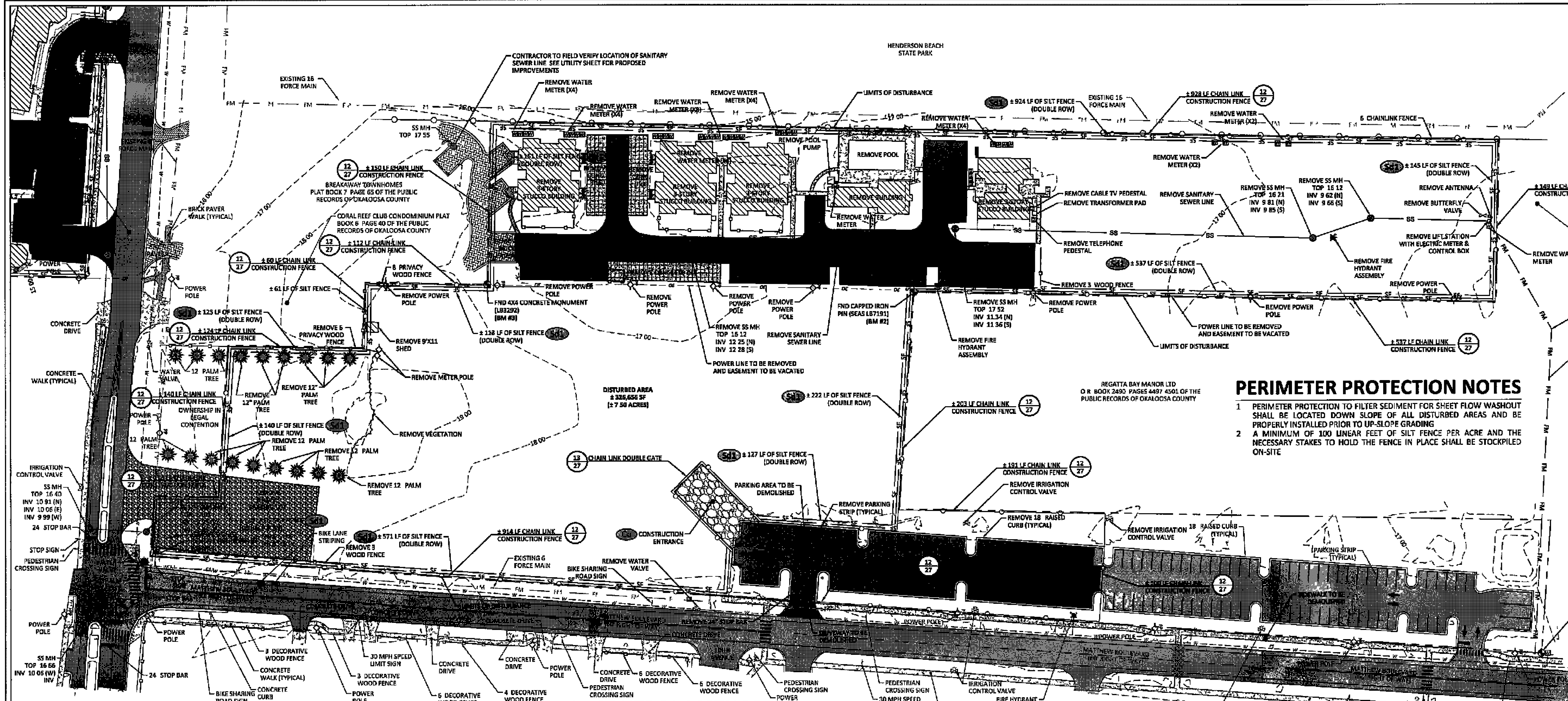

PERIMETER PROTECTION NOTES

1 PERIMETER PROTECTION TO FILTER SEDIMENT FOR SHEET FLOW WASHOUT SHALL BE LOCATED DOWN SLOPE OF ALL DISTURBED AREAS AND BE PROPERLY INSTALLED PRIOR TO UP-SLOPE GRADING
2 A MINIMUM OF 100 LINEAR FEET OF SILT FENCE PER ACRE AND THE NECESSARY STAKES TO HOLD THE FENCE IN PLACE SHALL BE STOCKPILED ON-SITE

APPROVED MAY 23 2014 City of Destin Technical Review Team

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LAND DISTURBANCE - CONSTRUCTION SEQUENCE

THE FOLLOWING IS THE PROPOSED CONSTRUCTION SEQUENCE, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, OR REVISIONS DICTATES A DEVIATION FROM THIS SCHEDULE

1 DEVELOPER TO FILE A NOTICE OF INTENT PRIOR TO LAND DISTURBANCE
2 SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE, ETC)
3 CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES
4 INSTALL PERIMETER EROSION CONTROL DEVICES & CHAIN LINK FENCE ADJACENT TO PUBLIC ACCESS AREAS
5 CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP)
6 INSTALL ALL STRUCTURAL EROSION CONTROL PRACTICES IN CONCENTRATED FLOW AREAS, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA
7 CONSTRUCT ALL REMAINING TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES SHOWN ON THE PHASE-1 ESCP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS
8 CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION IF CLEARING MATERIALS ARE GROUND ON SITE, PLACING GROUND MULCH MATERIALS AT THE TOE OF ANY SLOPES WILL PROVIDE ADDITIONAL PROTECTION FROM EROSION ESCAPING THE SITE
9 ROAD GRADING & GRADING FOR THE REMAINDER OF SITE
10 UTILITY INSTALLATION AND WHETHER STORM DRAINS WILL BE USED OR BLOCKED AFTER CONSTRUCTION
11 BUILDING, PARKING LOT, AND SITE CONSTRUCTION
12 FINAL GRADING, LANDSCAPING AND/OR STABILIZATION
13 IMPLEMENTATION AND MAINTENANCE OF FINAL EROSION CONTROL STRUCTURES
14 REMOVAL OF TEMPORARY EROSION CONTROL DEVICES

DEMOLITION & ESCP (PHASE 1) NOTES

1 EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION REPAIR AND / OR REPLACE AS NECESSARY
2 WHERE SILT FENCE IS SHOWN OUTSIDE PROJECT BOUNDARY FOR CLARITY ONLY
3 ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS
4 THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREA WITHIN THE CLEARING LIMITS DEPICTED HEREON INCLUDING DEMOLITION OF EXISTING INFRASTRUCTURE INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT BUT ONLY AFTER VERIFICATION FROM ENGINEER & RESPECTIVE UTILITY COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING, GRUBBING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK
5 FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, A PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3 1), EMBANKMENTS OF PONDS, BASINS, AND TRAPS, AND WITHIN 14 CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS , THE REQUIREMENTS OF SECTION 11 09 03 OF THE DESTIN LAND DEVELOPMENT CODE DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING PERFORMED
6 ALL BARE GROUND, STRIPPED OF VEGETATION DURING THE CLEARING/GRADING PROCESS, SHALL BE COVERED TO THE MAXIMUM EXTENT PRACTICABLE
7 ALL DISTURBED AREAS SHALL BE COVERED AND/OR MULCHED WITHIN 12 HOURS, IF THEY ARE TO REMAIN UN WORKED FOR MORE THAN 2 CALENDAR DAYS
8 AREAS NOT BEING WORKED FOR 30 CALENDAR DAYS OR MORE SHALL BE VEGETATED UNLESS THE CITY DETERMINES THAT WINTER WEATHER MAKES VEGETATION ESTABLISHMENT INFEASIBLE IF THIS IS THE CASE, IT MUST STILL BE MORE PERMANENTLY STABILIZED, USING METHODS SUCH AS BONDED FIBER MATRIX, OR OTHER MORE STABLE BMPS
9 SLOPES & STOCKPILES 3H 1V OR STEEPER AND MORE THAN 10 FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE UN-WORKED FOR MORE THAN 48 HOURS
10 AREAS THAT ARE BEING HYDRO SEEDED SHALL HAVE A TACKIFIER MIXED INTO THE HYDRO SEED TO HELP STABILIZE MIXTURE ONTO THE SOIL
11 ENOUGH COVER MATERIAL TO SUFFICIENTLY PROTECT ALL DISTURBED AREAS SHALL BE STOCKPILED ON THE SITE AT THE BEGINNING OF THE WEST SEASON
12 ROADS AND PARKING AREAS SHALL BE STABILIZED IMMEDIATELY AFTER THE INITIAL GRADING
13 ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF A SITE AND ONTO A ROADWAY SUCH AS WHEEL WASHING STATIONS MAY BE REQUIRED
14 THE PAVEMENT SHALL NOT BE CLEANED BY WASHING/FLUSHING STREETS
15 ANY SEDIMENT THAT IS TRACKED ONTO ROAD PAVEMENT SHALL BE REMOVED IMMEDIATELY (PRIOR TO THE END OF THE WORK DAY) BY SWEEPING THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED FROM THE ROADWAY AND STABILIZED ON SITE

DUST CONTROL METHODS

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BENCHMARK DATA

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5450 NORTH W STREET | PENSACOLA | FLORIDA | 32505

HENDERSON BEACH RESORT

DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA

DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID SMITH LICENSE No 58927 STATE OF FLORIDA PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP 5450 NORTH W STREET PENSACOLA, FL 32505

SHEET TITLE

DEMOLITION AND EROSION CONTROL PLAN (1 OF 2)

SHEET NUMBER

6 OF 36

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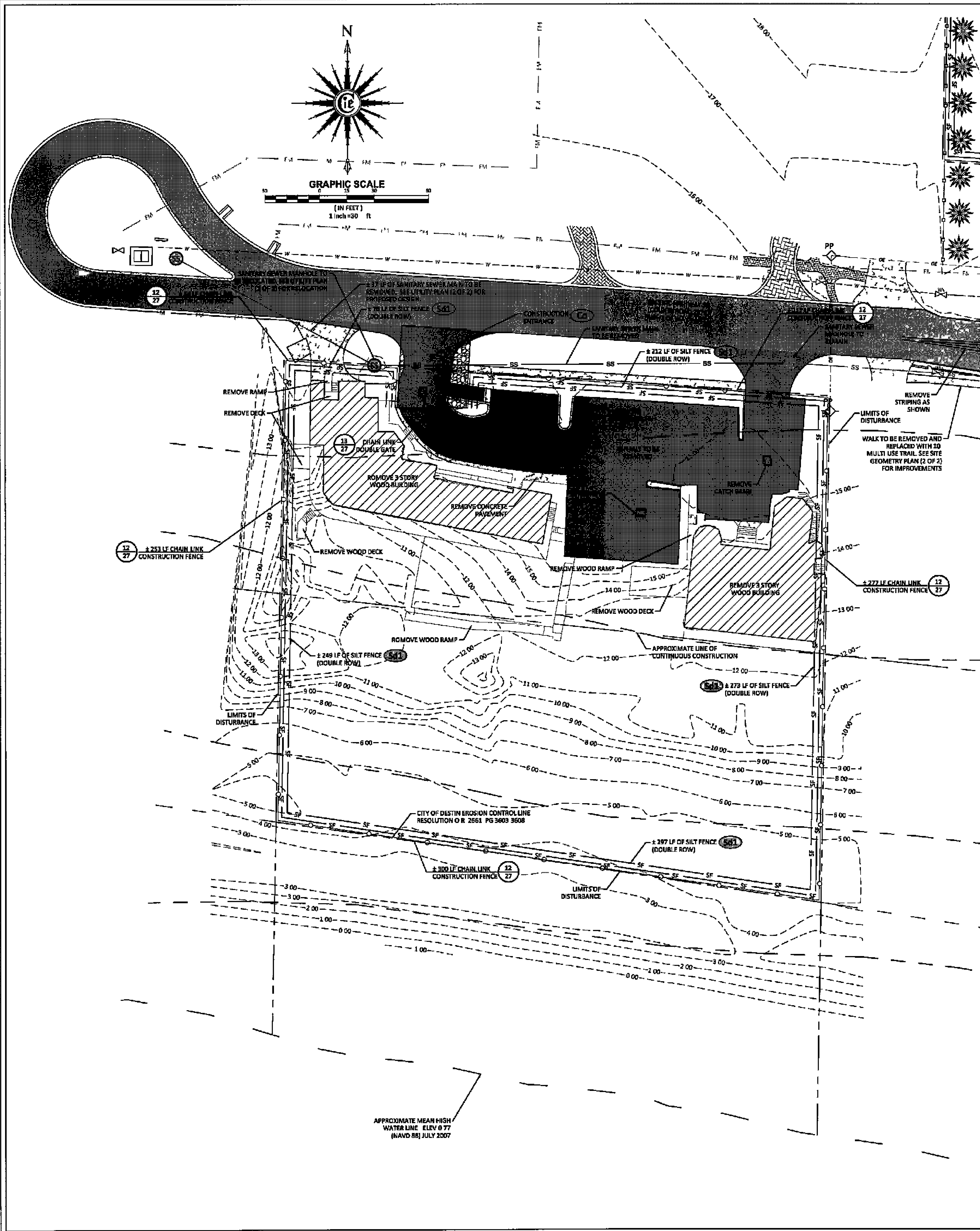

LAND DISTURBANCE - CONSTRUCTION SEQUENCE

THE FOLLOWING IS THE PROPOSED CONSTRUCTION SEQUENCE, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, OR REVISIONS DICTATES A DEVIATION FROM THIS SCHEDULE

1. DEVELOPER TO FILE A NOTICE OF INTENT PRIOR TO LAND DISTURBANCE
2. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE, ETC)
3. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES
4. INSTALL PERIMETER EROSION CONTROL DEVICES & CHAIN LINK FENCE ADJACENT TO PUBLIC ACCESS AREAS
5. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP)
6. INSTALL ALL STRUCTURAL EROSION CONTROL PRACTICES IN CONCENTRATED FLOW AREAS, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA
7. CONSTRUCT ALL REMAINING TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES SHOWN ON THE PHASE 1 ESCP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS
8. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION IF CLEARING MATERIALS ARE GROUND ON SITE, PLACING GROUND MULCH MATERIALS AT THE TOE OF ANY SLOPES WILL PROVIDE ADDITIONAL PROTECTION FROM EROSION ESCAPING THE SITE
9. ROAD GRADING & GRADING FOR THE REMAINDER OF SITE
10. UTILITY INSTALLATION AND WHETHER STORM DRAINS WILL BE USED OR BLOCKED AFTER CONSTRUCTION
11. BUILDING, PARKING LOT, AND SITE CONSTRUCTION
12. FINAL GRADING, LANDSCAPING AND/OR STABILIZATION
13. IMPLEMENTATION AND MAINTENANCE OF FINAL EROSION CONTROL STRUCTURES
14. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES

DEMOLITION & ESCP (PHASE 1) NOTES

1. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION REPAIR AND / OR REPLACE AS NECESSARY
2. WHERE SILT FENCE IS SHOWN OUTSIDE PROJECT BOUNDARY FOR CLARITY ONLY
3. ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS
4. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREA WITHIN THE CLEARING LIMITS DEPICTED HEREON INCLUDING DEMOLITION OF EXISTING INFRASTRUCTURE INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT BUT ONLY AFTER VERIFICATION FROM ENGINEER & RESPECTIVE UTILITY COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING, GRUBBING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK
5. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, A PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3 1), EMBANKMENTS OF PONDS, BASINS, AND TRAPS, AND WITHIN 14 CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS , THE REQUIREMENTS OF SECTION 11 09 03 OF THE DESTIN LAND DEVELOPMENT CODE DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING PERFORMED
6. ALL BARE GROUND, STRIPPED OF VEGETATION DURING THE CLEARING/GRADING PROCESS, SHALL BE COVERED TO THE MAXIMUM EXTENT PRACTICABLE
7. ALL DISTURBED AREAS SHALL BE COVERED AND/OR MULCHED WITHIN 12 HOURS, IF THEY ARE TO REMAIN UN WORKED FOR MORE THAN 2 CALENDAR DAYS
8. AREAS NOT BEING WORKED FOR 30 CALENDAR DAYS OR MORE SHALL BE VEGETATED, UNLESS THE CITY DETERMINES THAT WINTER WEATHER MAKES VEGETATION ESTABLISHMENT INFEASIBLE IF THIS IS THE CASE, IT MUST STILL BE MORE PERMANENTLY STABILIZED, USING METHODS SUCH AS BONDED FIBER MATRIX, OR OTHER MORE STABLE BMPS
9. SLOPES & STOCKPILES 3H 1V OR STEEPER AND MORE THAN 10 FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE UN WORKED FOR MORE THAN 48 HOURS
10. AREAS THAT ARE BEING HYDRO SEEDED SHALL HAVE A TACKIFIER MIXED INTO THE HYDRO SEED TO HELP STABILIZE MIXTURE ONTO THE SOIL
11. ENOUGH COVER MATERIAL TO SUFFICIENTLY PROTECT ALL DISTURBED AREAS SHALL BE STOCKPILED ON THE SITE AT THE BEGINNING OF THE WEST SEASON
12. ROADS AND PARKING AREAS SHALL BE STABILIZED IMMEDIATELY AFTER THE INITIAL GRADING
13. ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF A SITE AND ONTO A ROADWAY SUCH AS WHEEL WASHING STATIONS MAY BE REQUIRED
14. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING/FLUSHING STREETS
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APPROVED MAY 23 2014 City of Destin Technical Review Team

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No changes shall be made to, and construction shall not deviate from, these approved plans without prior written approval from the City of Destin Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

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REVIEWED BY DES

SEAL
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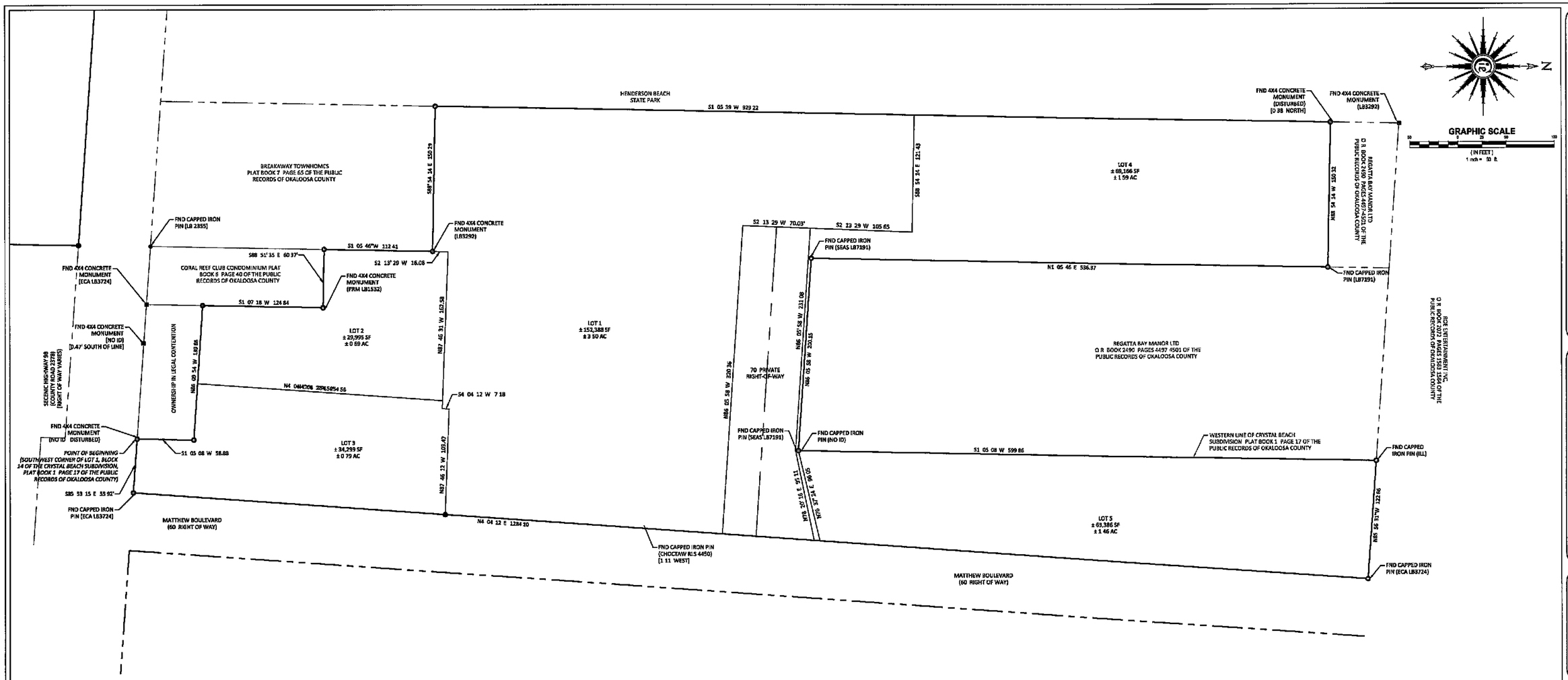
INNERLIGHT ENGINEERING CORP 5450 NORTH W STREET PENSACOLA, FL 32505

SHEET TITLE
DEMOLITION AND EROSION CONTROL PLAN (2 OF 2)

SHEET NUMBER

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (IEC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED IEC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT



GENERAL NOTES

1. THIS PLAT IS BASED UPON A BOUNDARY SURVEY BY THIS FIRM AND WAS PREPARED IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR PROFESSIONAL SURVEYORS AND MAPPERS AS DEFINED IN CHAPTER 61G17 06 OF THE FLORIDA ADMINISTRATIVE CODE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO SECTION 472 027 OF THE FLORIDA STATUTES
2. SOURCES OF INFORMATION RELIED UPON FOR THE PREPARATION OF THIS PLAT INCLUDES THE FOLLOWING FIELD RECOVERED MONUMENTATION, PLATS, DEEDS, AND OTHER DOCUMENTATION AS NOTED HEREON
3. THIS PLAT DOES NOT REFLECT RESEARCH BY INNERLIGHT ENGINEERING CORPORATION , REGARDING TITLE OR EASEMENT THERE MAY EXIST DEEDS OF RECORD, UNRECORDED DEEDS, PLATS, UNRECORDED PLATS, EASEMENTS, RIGHTS OF WAYS, OR OTHER INSTRUMENTS THAT MAY AFFECT THIS PARCEL
4. NORTH AND THE BEARINGS DEPICTED HERON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM ~ FLORIDA NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83)
5. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, UTILITIES, FOUNDATIONS, FOOTERS, HUMAN BURIAL SITES, AND CEMETERIES, WERE LOCATED, EXCEPT AS SHOWN
6. ALL LOT LINES DEPICTED HEREON ARE NON RADIAL (N R) UNLESS OTHERWISE NOTED
7. FEDERAL EMERGENCY MANAGEMENT AGENCY (F E M A), FLOOD INSURANCE RATE MAP (F I R M) 12091C0493H, BEING PANEL 493 OF 494, EFFECTIVE DATE OF DECEMBER 6, 2002, INDICATES THAT THE SUBJECT PARCEL IS LOCATED IN ZONES "X" AND "VE" PORTIONS OF THE SITE ARE WITHIN THE COASTAL BARRIER ZONE, IDENTIFIED OCTOBER 01, 1983, AS DELINEATED NO CERTIFICATIONS ARE MADE REGARDING THE ACCURACY OF SAID F I R M

LEGEND

- ● PERMANENT REFERENCE MONUMENT (PRM) SET 1/2 " IRON ROD (PRM LB7927)
- ● PERMANENT CONTROL POINT (PCP) SET NAIL & DISK (IEC LB7927)
- ⊠ FOUND 4X4 CONCRETE MONUMENT
- ○ FOUND CAPPED IRON PIN

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NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929		

LOT DESCRIPTION	LOT AREA (ACRES)	MAX DENSITY (12 DU/ACRE)	SHORT TERM MAX DENSITY (24 DU/ACRE)*	MAX FLOOR AREA RATIO (0 50)
LOT 1	3 50	42 00 UNITS	84 00 UNITS	76230 00 SF
LOT 2	0 69	8 28 UNITS	16 56 UNITS	15028 20 SF
LOT 3	0 79	9 48 UNITS	18 96 UNITS	17206 20 SF
LOT 4	1 59	19 08 UNITS	38 16 UNITS	34630 20 SF
LOT 5	1 46	17 52 UNITS	35 04 UNITS	31798 80 SF
OWNERSHIP IN LEGAL CONTENTION	0 19	2 28 UNITS	4 56 UNITS	4138 20 SF
TOTAL	8 22	98 64 UNITS	197 28UNITS	179031 60SF

* ONE BEDROOM, SHORT TERM RESIDENTIAL

1) THE ABOVE TABLE DEPICTS THE MAXIMUM ALLOWABLE RESIDENTIAL DENSITY AND NON RESIDENTIAL FLOOR AREA RATIO FOR EACH LOT PER THE CITY OF DESTIN LAND DEVELOPMENT CODE THE ALLOWABLE DENSITY AND FLOOR AREA RATIOS CAN BE SHARED BETWEEN THE ABOVE PARCELS AND WILL MEET THE CITY OF DESTIN REQUIREMENTS FOR THE OVERALL HENDERSON BEACH RESORT MASTER PLAN BOUNDARY

2) THE ALLOWABLE DENSITY AND FLOOR AREA RATIO FROM THE PROPERTY CURRENTLY UNDER OWNERSHIP LEGAL CONTENTION SHALL BE INCLUDED AND UTILIZED WITHIN THE HENDERSON BEACH RESORT MASTER PLAN IN EXCHANGE, THE HENDERSON BEACH RESORT DEVELOPER'S WILL DEDICATE THIS PROPERTY TO THE CITY OF DESTIN AND WILL CONTINUE MAINTAINING THIS AREA

LOT DESCRIPTION	LOT AREA (ACRES)	MAX DENSITY (12 DU/ACRE)	SHORT TERM MAX DENSITY (24 DU/ACRE)*	MAX FLOOR AREA RATIO (0 50)
LOT 6	2 68	32 16 UNITS	64 32 UNITS	58370 40 SF

* ONE BEDROOM, SHORT TERM RESIDENTIAL

1) LOT 6 AREA SHOWN INCLUDES 1 83 ACRES NORTH AND 0 85 ACRES SOUTH OF THE CITY OF DESTIN EROSION CONTROL LINE

APPROVED
MAY 3 3 2014
City of Destin
Technical Review Team

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HENDERSON BEACH RESORT

DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID E SMITH
LICENSE No 38927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5430 NORTH W STREET
PENSACOLA, FL 32505
P 850.332.6370

SHEET TITLE
PRELIMINARY PLAT (1 OF 2)

SHEET NUMBER
8 OF 36

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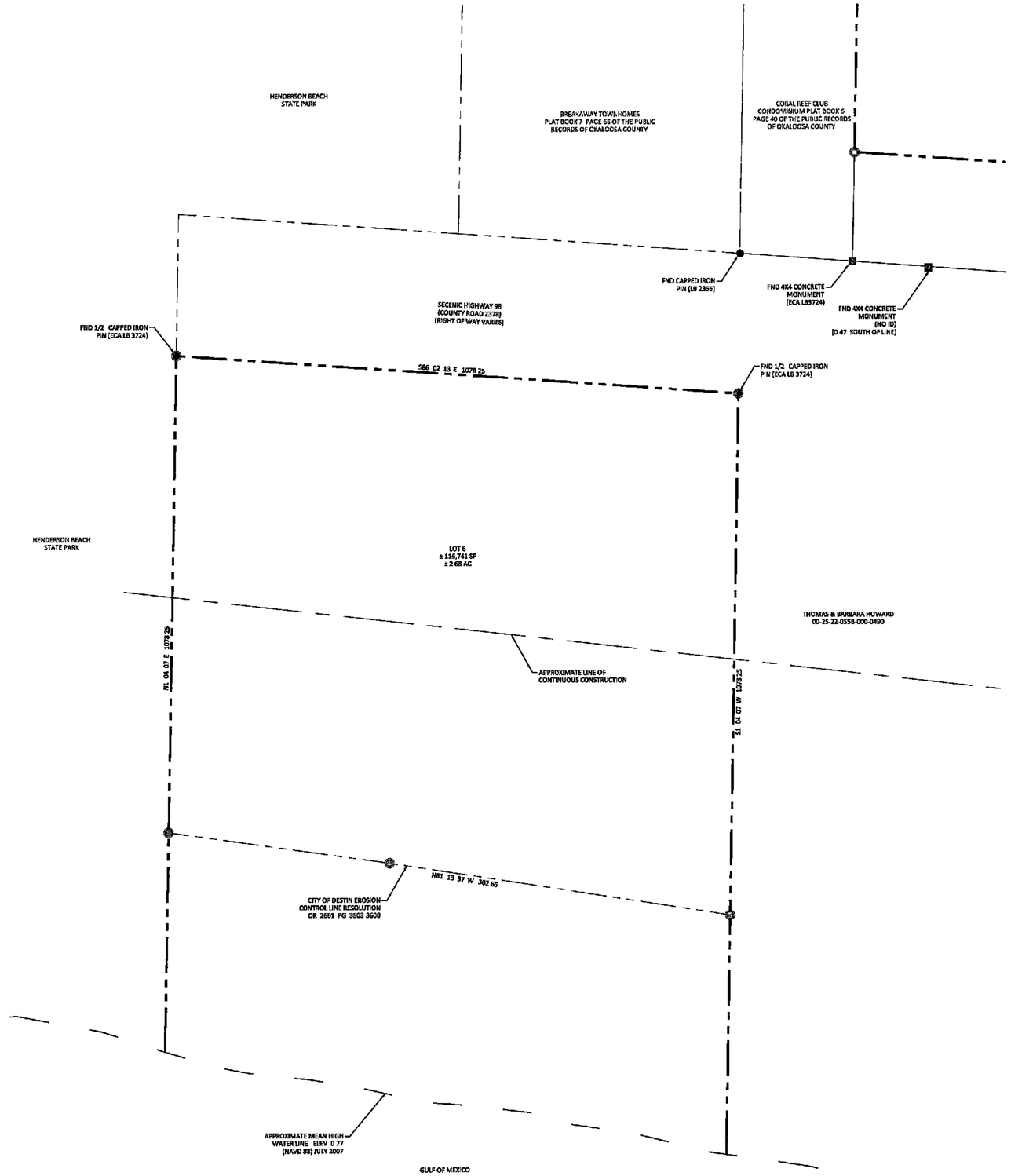

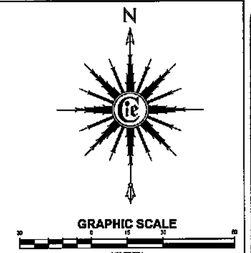

GENERAL NOTES

1. THIS PLAT IS BASED UPON A BOUNDARY SURVEY BY THIS FIRM AND WAS PREPARED IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR PROFESSIONAL SURVEYORS AND MAPPERS AS DEFINED IN CHAPTER 61G17 06 OF THE FLORIDA ADMINISTRATIVE CODE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO SECTION 472 027 OF THE FLORIDA STATUTES
2. SOURCES OF INFORMATION RELIED UPON FOR THE PREPARATION OF THIS PLAT INCLUDES THE FOLLOWING FIELD RECOVERED MONUMENTATION, PLATS, DEEDS, AND OTHER DOCUMENTATION AS NOTED HEREON
3. THIS PLAT DOES NOT REFLECT RESEARCH BY INNERLIGHT ENGINEERING CORPORATION, REGARDING TITLE OR EASEMENT THERE MAY EXIST DEEDS OF RECORD, UNRECORDED DEEDS, PLATS, UNRECORDED PLATS, EASEMENTS, RIGHTS OF-WAYS, OR OTHER INSTRUMENTS THAT MAY AFFECT THIS PARCEL
4. NORTH AND THE BEARINGS DEPICTED HERON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM ~ FLORIDA NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83)
5. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, UTILITIES, FOUNDATIONS, FOOTERS HUMAN BURIAL SITES, AND CEMETERIES, WERE LOCATED, EXCEPT AS SHOWN
6. ALL LOT LINES DEPICTED HEREON ARE NON RADIAL (N R) UNLESS OTHERWISE NOTED
7. FEDERAL EMERGENCY MANAGEMENT AGENCY (F E M A), FLOOD INSURANCE RATE MAP (F I R M) 12091C0493H, BEING PANEL 493 OF 494, EFFECTIVE DATE OF DECEMBER 6, 2002, INDICATES THAT THE SUBJECT PARCEL IS LOCATED IN ZONES "X" IN "VE" PORTIONS OF THE SITE ARE WITHIN THE COASTAL BARRIER ZONE, IDENTIFIED OCTOBER 01 1983, AS DELINEATED NO CERTIFICATIONS ARE MADE REGARDING THE ACCURACY OF SAID F I R M

LEGEND

- PERMANENT REFERENCE MONUMENT (PRM) SET 1/2 " IRON ROD (PRM LB7927)
- PERMANENT CONTROL POINT (PCP) SET NAIL & DISK (IEC LB7927)
- FOUND 4X4 CONCRETE MONUMENT
- FOUND CAPPED IRON PIN

ABBREVIATIONS

R/W	RIGHT-OF-WAY	NAD83	NORTH AMERICAN DATUM 1983
N	NORTH	DNR	DEPARTMENT OF NATURAL RESOURCES
S	SOUTH	ORB	OFFICIAL RECORD BOOK
E	EAST	PG	PAGE
W	WEST	ELEV / EL	ELEVATION
SQ FT	SQUARE FEET	(R)	RECORD DIMENSION
AC	ACRES	°	DEGREES WHEN USED IN A BEARING OR ANGLE
L1	LINE & NUMBER TO LINE TABLE	'	MINUTES WHEN USED IN A BEARING OR ANGLE
C1	CURVE & NUMBER TO CURVE TABLE	"	SECONDS WHEN USED IN A BEARING OR ANGLE
LB	LICENSED BUSINESS	'	FEET OR DECIMAL THEREOF WHEN USED IN A DIMENSION
#	NUMBER		
ID	IDENTIFICATION	"	INCHES WHEN USED IN A DIMENSION
NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929	±	MORE OR LESS

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APPROVED
MAY 23 2014
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Technical Review Team

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SEAL
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL ENGINEER
DAVID EX SMITH
LICENSE No 54927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
CERT OF AUTHORIZATION No 00000
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505
P 850-332-1570

SHEET TITLE
PRELIMINARY PLAT (2 OF 2)

SHEET NUMBER
9 OF 36

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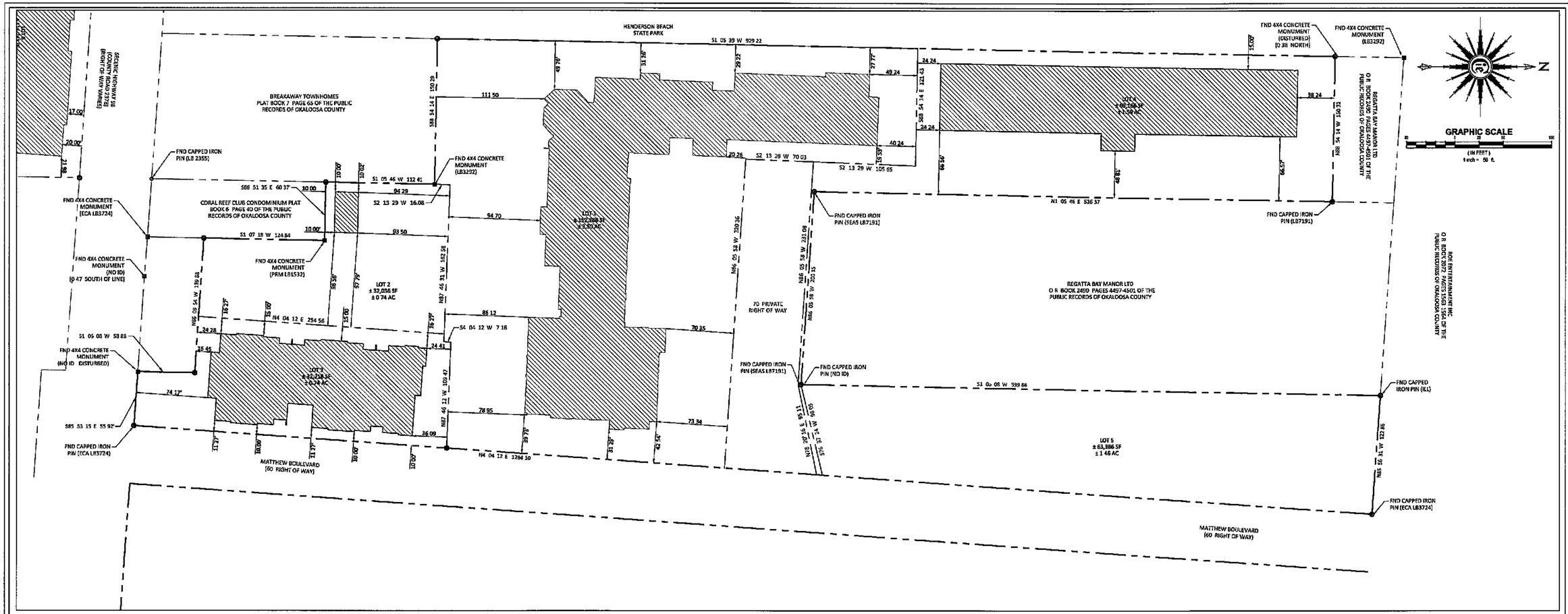

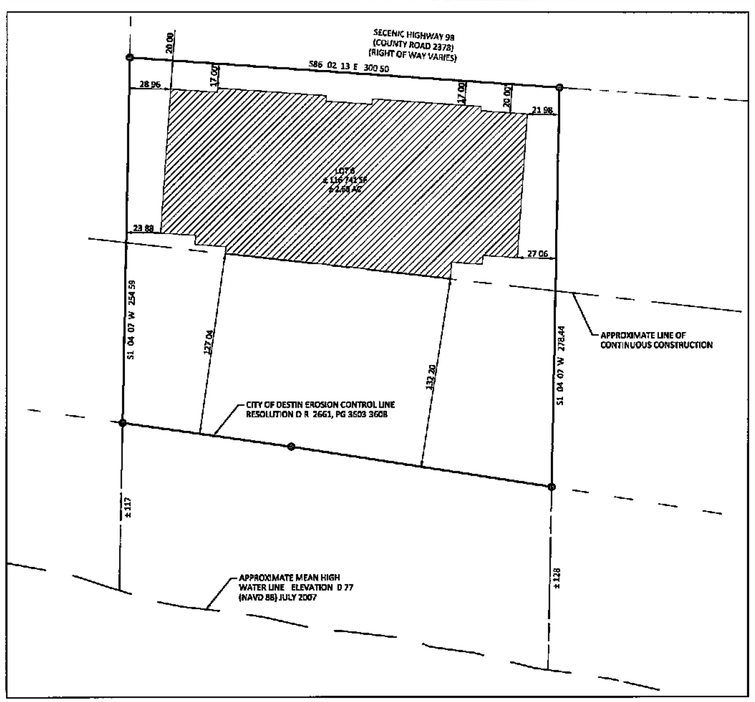

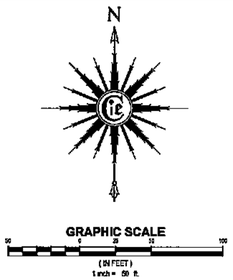

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P 850.855.4370

SHEET TITLE
SITE LAYOUT PLAN

SHEET NUMBER
10 OF 36

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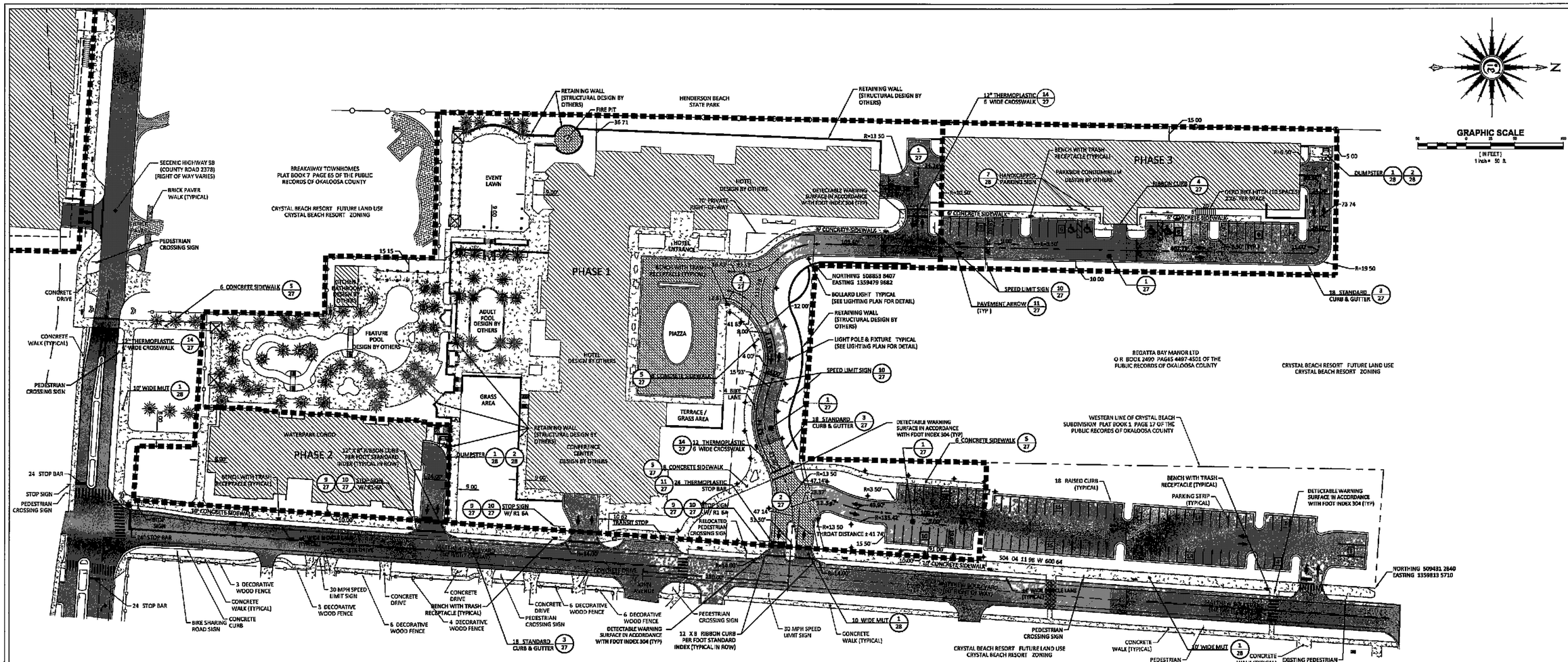

SITE DATA TABLE

MUNICIPALITY	CITY OF DESTIN FLORIDA
TAX PARCEL ID NUMBER	00 25 22 0000 0030 0010 00 25 22 0000 0030 0010
	00 25 22 0270 0000 0010 00 25 22 0000 0030 0010
	00 25 22 0380 0030 0010
	00 25 22 0380 0030 0010
	00 25 22 0380 0030 0010
	00 25 22 0000 0031 0030
	00 25 22 0000 0041 0000
ZONING	CRYSTAL BEACH RESORT (CBR)
FUTURE LAND USE	CRYSTAL BEACH RESORT (CBR)
LOCATION	THE SITE IS LOCATED BETWEEN STATE HIGHWAY 98 AND THE GULF OF MEXICO, EAST OF HENDERSON BEACH STATE PARK AND WEST OF CRYSTAL BEACH
SITE DESCRIPTION	THE PROPOSED SITE CONSISTS OF A MIXED USE HOTEL, SOUTH BUILDING, 3 SPORTS BAR, RESTAURANT, CONDOMINIUMS, AN OUTDOOR KITCHEN BAR, AREA, A LARGE FEATURE POOL, LAZY RIVER AND ASSOCIATED INFRASTRUCTURE
PROPOSED USE	MIXED USE
OVERALL SITE AREA	11.41 ACRES (497,157 SF)
OPEN SPACE REQUIREMENT	25 % (124,369 SF)
OPEN SPACE PROVIDED	43 % (214,387.70 SF)

ARTICLE 7.12 (TABLE 7.3 SCHEDULE OF DIMENSIONAL REQUIREMENTS)

DESCRIPTION	REQUIREMENT	PROVIDED	REQ MT MET?
MAX BLDG HEIGHT	50 FEET/4 STORIES	50 FEET/5 STORIES	YES
MAXIMUM FLOOR AREA RATIO	0.50	0.37	YES
MAXIMUM DENSITY (UNITS/AC)	22 UNITS/AC	5.78	YES
	24 UNITS/AC 1 BR	8.23	YES
MINIMUM OPEN SPACE %	25%	43%	YES
SETBACKS			
FRONT	10 FEET	10 FEET	YES
REAR	15 FEET	15 FEET	YES
SIDE	15 FEET	15 FEET	YES

PARKING ANALYSIS

	BUILDING	UNITS	GROSS SF	PARKING REQUIREMENT (PER CITY LDC)	BICYCLE REQUIREMENT (PER CITY LDC)	PARKING REQUIREMENT (PER PARKING STUDY) *	BICYCLE REQUIREMENT (PER PARKING STUDY) *	BUY DOWN CREDIT	SPACES CREDITED FOR BICYCLES	NET PARKING REQUIRED	PARKING PROPOSED
PHASE 1	HOTEL GUEST ROOM	200	81,004	196	90	257	132	258	256	206.1	418
	HOTEL SPA		10,058	40.2	10						
	HOTEL CONFERENCE		5,994	54.6	00						
	PROPERTY MGT /REAL ESTATE		1,920	0.8	0.1						
	HOTEL RESTAURANT		5,103.0	31.0	3.1	41.2	1	1.1	4.1	3.0	
	HOTEL BAR & GRILL		1,494.0	14.9	1						
	HOTEL RETAIL		800.0	2.0	0.2	2.0	0.2	0.2	0.2	1.6	
PHASE 3	PARKSIDE CONDO	60		96	9.6	91.0	10.0	9.6	9.6	78.8	60
PHASE 2	WATERPARK CONDO	40.6		62.0	5	54.0	7.0	6.1	5.5	51.2	52
PHASE 4	HOTEL GUEST ROOM	43.0	21,520.0	54	1.7	28.7	1.7	3.2	3	27.7	45
	HOTEL RESTAURANT		3,584.0	35.8	3.5	47.1	4.7	1	4.7	37.7	
	HOTEL BAR		1,610.0	16.5	1.7						
	HOTEL RETAIL		561.0	2.3	0.2	2.3	0.2	0.2	0.2	1.8	
	BEACHSIDE CONDO	54.0		66.0	6.6	56.0	6.6	6.6	6.6	52.8	
			TOTAL	704	176	610.9	75.5	61	61.1	88.7	512.0

* PARKING & BICYCLE SPACES REQUIRED BASED ON PARKING STUDY PREPARED BY SOUTHERN TRAFFIC SERVICES DATED APRIL 19, 2014

* BUILDING FOOTPRINT, TOTAL SCHEMATIC AND SUB AREA PER CITY LDC 8.6.12(D)7

** SUBSTITUTION OF EXCESS PARKING WITH BICYCLE PARKING PER CITY LDC 8.6.12(D)5

SITE PLAN NOTES

1. ALL CURB DIMENSIONS ARE MEASURED FROM BACK OF CURB
2. APPROVAL OF OUTDOOR SIGNAGE IS NOT PART OF THIS REQUEST
3. TRAFFIC SIGNAGE IN RIGHT OF WAY SHALL BE ON 3" DIAMETER ALUMINUM ROUND POSTS AND THE BASES SHALL BE CONCRETE WITH BREAKAWAY HARDWARE OR NO CONCRETE SOIL PLATE, BOTH WAYS, PER FDOT STANDARD INDEX 11860
4. BICYCLE PARKING FACILITIES, AS SHOWN ON THIS PLAN, SHALL SUPPORT BICYCLES IN A STABLE POSITION WITHOUT DAMAGE TO WHEELS, FRAME OR OTHER COMPONENTS. BICYCLE RACKS MUST BE EASILY USABLE WITH BOTH U LOCKS AND CABLE LOCKS. RACKS SHOULD SUPPORT THE BIKES IN A STABLE UPRIGHT POSITION SO THAT A BIKE, IF BUMPED, WILL NOT FALL OR ROLL DOWN. RACKS THAT SUPPORT A BIKE PRIMARILY BY A WHEEL, SUCH AS STANDARD "WIRE RACKS" ARE DAMAGING TO WHEELS AND THUS ARE NOT ACCEPTABLE

SITE PLAN LEGEND

- PROPOSED BRICK PAVERS
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING CONCRETE WALK
- PROPOSED CONCRETE WALK
- BOUNDARY

APPROVED
MAY 28 2014
City of Destin
Technical Review Team

ABBREVIATIONS

R/W	RIGHT-OF-WAY	NAD83	NORTH AMERICAN DATUM 1983
N	NORTH	DNR	DEPARTMENT OF NATURAL RESOURCES
S	SOUTH	ORB	OFFICIAL RECORD BOOK
E	EAST	PG	PAGE
W	WEST	ELEV / EL	ELEVATION
SQ FT	SQUARE FEET	(R)	RECORD DIMENSION
AC	ACRES	°	DEGREES WHEN USED IN A BEARING OR ANGLE
L1	LINE & NUMBER TO LINE TABLE	'	MINUTES WHEN USED IN A BEARING OR ANGLE
C1	CURVE & NUMBER TO CURVE TABLE	"	SECONDS WHEN USED IN A BEARING OR ANGLE
LB	LICENSED BUSINESS	'	FEET OR DECIMAL THEREOF WHEN USED IN A DIMENSION
#	NUMBER		
ID	IDENTIFICATION	"	INCHES WHEN USED IN A DIMENSION
NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929	±	MORE OR LESS

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INNERLIGHT ENGINEERING CORPORATION
CERTIFICATE OF AUTHORIZATION No. 8988
5450 NORTH W STREET
PENSACOLA, FL 32505
P: 850.333.4376

SHEET TITLE
SITE GEOMETRY PLAN (1 OF 2)

SHEET NUMBER
11 OF 36

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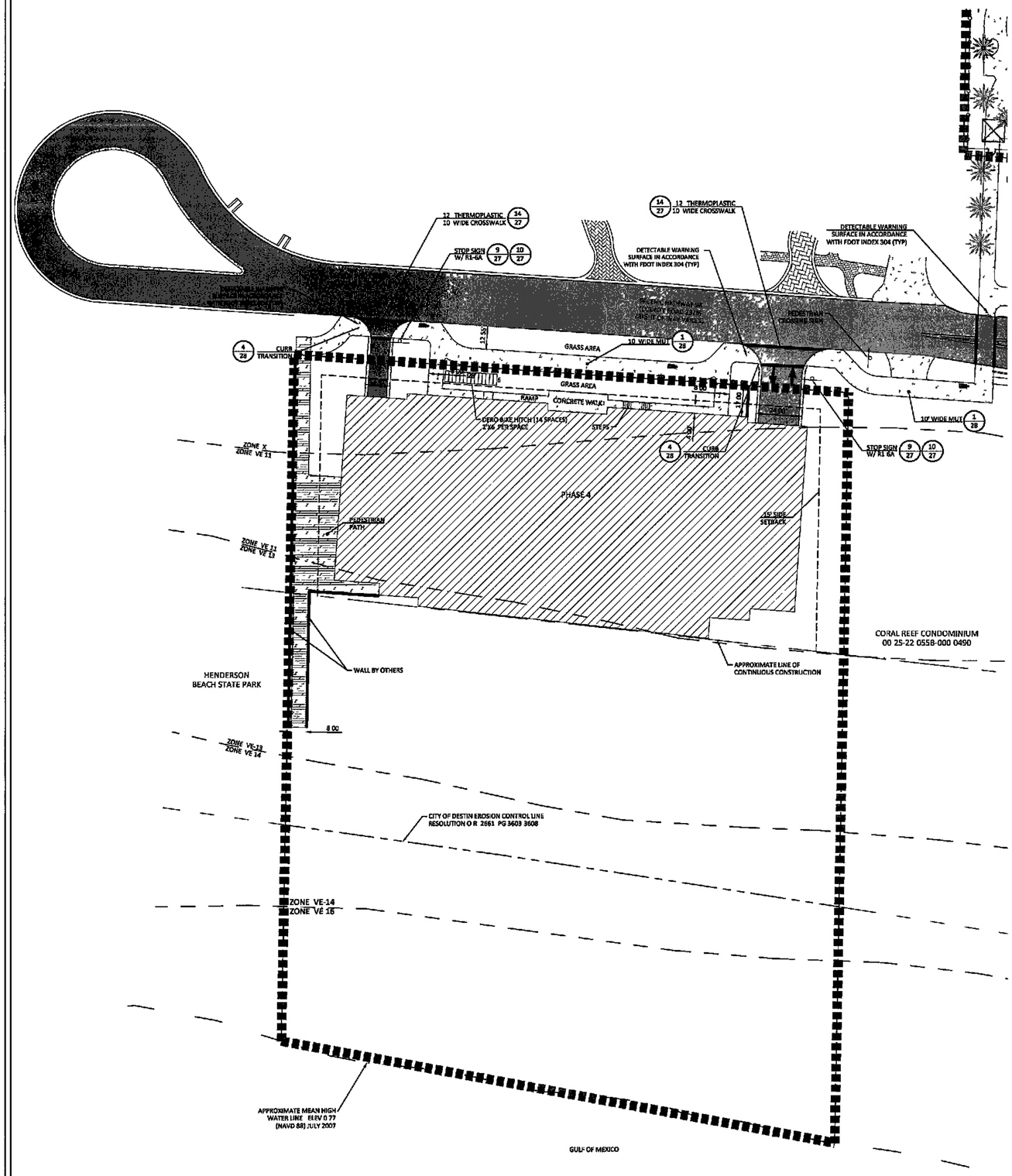
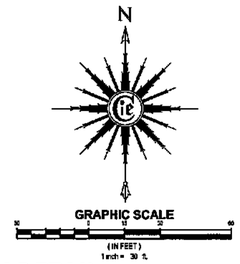
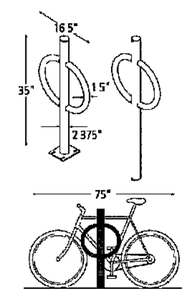




BIKE RACK DETAIL



DERO BIKE HITCH
http //www dero com/commercial bike-racks html

SITE DATA TABLE

MUNICIPALITY	CITY OF DESTIN, FLORIDA
TAX PARCEL ID NUMBER	00 25 22 0000 0032 0000 00 25 22 0000 0040 0010 00 25 22 0000 0032 0000 00 25 22 0000 0032 0110 00 25 22 0580 0000 0010 00 25 22 0580 0010 0010 00 25 22 0580 0010 0020 00 25 22 0000 0031 0030 00 25 22 0000 0031 0010
ZONING	CRYSTAL BEACH RESORT (CB1)
FUTURE LAND USE	CRYSTAL BEACH RESORT (CB1)
LOCATION	THE SITE IS LOCATED BETWEEN STATE HIGHWAY 98 AND THE GULF OF MEXICO EAST OF HENDERSON BEACH STATE PARK AND WEST OF CRYSTAL BEACH
SITE DESCRIPTION	THE PROPOSED SITE CONSISTS OF A MIXED USE HOTEL/RESORT BUILDING WITH SHORT TERM RENTAL CONDOMINIUMS AN INDOOR/OUTDOOR RESTAURANT AND A LARGE FEATURE POOL/LAZY RIVER AND ASSOCIATED INFRASTRUCTURE
PROPOSED USE	MIXED USE
OVERALL SITE AREA	11 42 ACRES (497 455 SF)
OPEN SPACE REQUIREMENT	25% (124 363 SF)
OPEN SPACE PROVIDED	34% (171 367 SF)

ARTICLE 7 12 (TABLE 7 3 SCHEDULE OF DIMENSIONAL REQUIREMENTS)

DESCRIPTION	REQUIREMENT	PROVIDED	REQ MT MET?
MAX BLDG HEIGHT	50 FEET/4 STORIES	50 FEET/4 STORIES	YES
MAXIMUM FLOOR AREA RATIO	3 00	0 37	YES
MAXIMUM DENSITY (UNITS/AC)	22 UNITS/AC	9 78	YES
	4 UNITS/ACRE	8 20	YES
MINIMUM OPEN SPACE %	25 %	34 %	YES
SETBACKS			
FRONT	10 FEET	10 FEET	YES
REAR	15 FEET	15 FEET	YES
SIDE	15 FEET	15 FEET	YES

PARKING ANALYSIS

	BUILDING	UNITS	GROSS SF	PARKING REQUIREMENT (PER CITY LDC)	BICYCLE REQUIREMENT (PER CITY LDC)	PARKING REQUIREMENT (PER PARKING STUDY) *	BICYCLE REQUIREMENT (PER PARKING STUDY) ^	BUY DOWN CREDIT	SPACES CREDITED FOR BICYCLES	NET PARKING REQUIRED	PARKING PROPOSED
PHASE 1	HOTEL GUEST ROOM	170	81[illegible]	179 6	9 0	25[illegible]	[illegible]	25 8	25 8	206 1	415
	HOTEL SPA		10658 0	[illegible]	4 0						
	HOTEL CONFERENCE		[illegible]	1[illegible]	0 0						
	PROPERTY MGT /REAL ESTATE		9[illegible]0	[illegible]8	0						
	HOTEL RESTAURANT		4103 0	31 0	3 1	31 2	4 [illegible]	4 [illegible]	3 1	33 6	
	HOTEL BAR & GRILL		1[illegible]7 0	11 9	5						
	HOTEL RETAIL		507 0	2 0	0 2	2 0	0 2	0 2	0 2	0	
PHASE 3	PARKSIDE CONDO	36 0		[illegible]0	9 0	96 0	0 0	9	9 6	[illegible]	16
PHASE 2	WATERPARK CONDO	[illegible]		61 0	0 4	6[illegible]	0	6 1	[illegible]	51 2	3
PHASE 4	HOTEL GUEST ROOM	33 0	21[illegible]19 0	34 7	[illegible]	34 7	7	3 5	[illegible]	27 7	4
	HOTEL RESTAURANT		3591 0	35 8	3 [illegible]	4 1	1 7	[illegible]	1 7	3 7	
	HOTEL BAR		1531 0	16 [illegible]	[illegible]						
	HOTEL RETAIL		562 0	2 3	0 2	2 3	0 2	0 2	0 2	[illegible]	
	BEACHSIDE CONDO	63 0		63 0	6 3	63 0	6 3	6	6 6	52 3	
			TOTAL	728 4	47 6	619 [illegible]	47 [illegible]	61 1	51 1	188 7	1[illegible]0

PARKING & BICYCLE SPACES REQUIRED BASED ON PARKING STUDY PREPARED BY SOUTHERN TRAFFIC SERVICES DATED MARCH 19, 2014

** REDUCTION FOR CRYSTAL BEACH MIXED USE PER CITY LDC 8 06 12(D)

*** SUBSTITUTION OF VEHICLE PARKING WITH BICYCLE PARKING PER CITY LDC 8 06 12(D)

SITE PLAN NOTES

1 ALL CURB DIMENSIONS ARE MEASURED FROM BACK OF CURB
2 APPROVAL OF OUTDOOR SIGNAGE IS NOT PART OF THIS REQUEST
3 TRAFFIC SIGNAGE IN RIGHT OF WAY SHALL BE ON 3" DIAMETER ALUMINUM ROUND POSTS AND THE BASES SHALL BE CONCRETE WITH BREAKAWAY HARDWARE OR NO CONCRETE SOIL PLATE, BOTH WAYS, PER FDOT STANDARD INDEX 11860
4 BICYCLE PARKING FACILITIES, AS SHOWN ON THIS PLAN, SHALL SUPPORT BICYCLES IN A STABLE POSITION WITHOUT DAMAGE TO WHEELS, FRAME OR OTHER COMPONENTS BICYCLE RACKS MUST BE EASILY USABLE WITH BOTH U LOCKS AND CABLE LOCKS RACKS SHOULD SUPPORT THE BIKES IN A STABLE UPRIGHT POSITION SO THAT A BIKE, IF BUMPED, WILL NOT FALL OR ROLL DOWN RACKS THAT SUPPORT A BIKE PRIMARILY BY A WHEEL, SUCH AS STANDARD "WIRE RACKS" ARE DAMAGING TO WHEELS AND THUS ARE NOT ACCEPTABLE

SITE PLAN LEGEND

- PROPOSED BRICK PAVERS
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING CONCRETE WALK
- PROPOSED CONCRETE WALK
- BOUNDARY

ABBREVIATIONS

R/W	RIGHT-OF-WAY	NAD83	NORTH AMERICAN DATUM 1983
N	NORTH	DNR	DEPARTMENT OF NATURAL RESOURCES
S	SOUTH	ORB	OFFICIAL RECORD BOOK
E	EAST	PG	PAGE
W	WEST	ELEV / EL	ELEVATION
SQ FT	SQUARE FEET	(R)	RECORD DIMENSION
AC	ACRES	°	DEGREES WHEN USED IN A BEARING OR ANGLE
L1	LINE & NUMBER TO LINE TABLE	'	MINUTES WHEN USED IN A BEARING OR ANGLE
C1	CURVE & NUMBER TO CURVE TABLE	"	SECONDS WHEN USED IN A BEARING OR ANGLE
LB	LICENSED BUSINESS	'	FEET OR DECIMAL THEREOF WHEN USED IN A DIMENSION
#	NUMBER	"	INCHES WHEN USED IN A DIMENSION
ID	IDENTIFICATION	±	MORE OR LESS
NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929		

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MAY 9 2014
City of Destin
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HENDERSON BEACH RESORT
DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL ENGINEER
DAVID E SMITH LICENSE 49927 STATE OF FLORIDA PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION 00000772
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505
P 850 332 4250

SHEET TITLE
SITE GEOMETRY PLAN (2 OF 2)

SHEET NUMBER
12 OF 36

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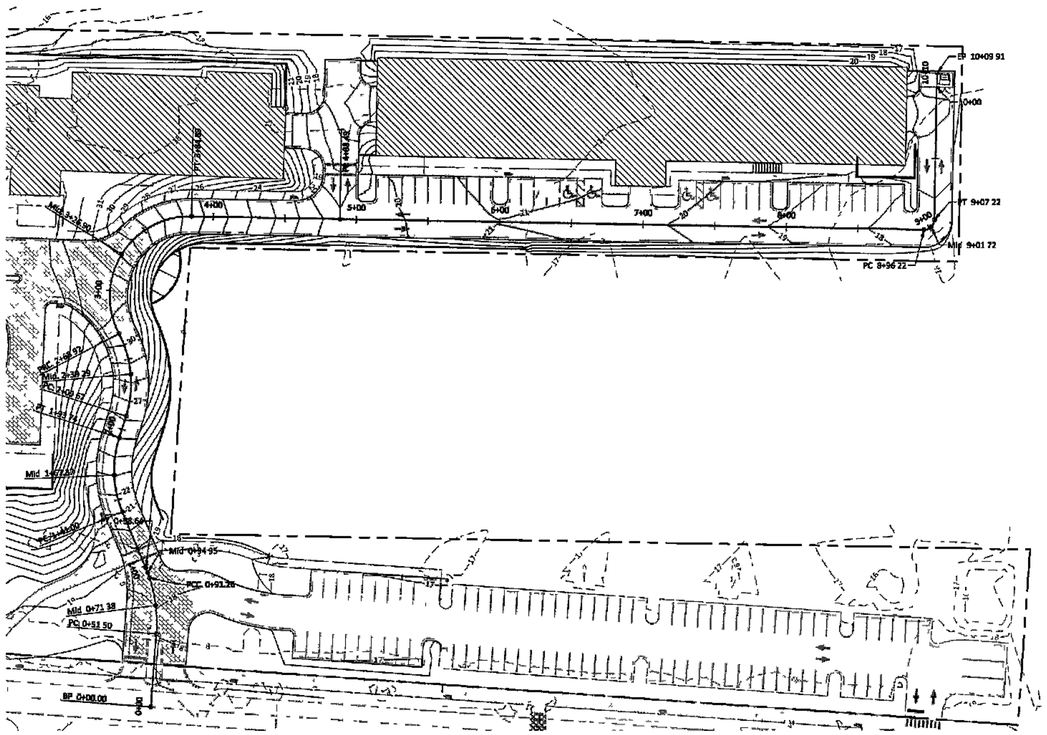

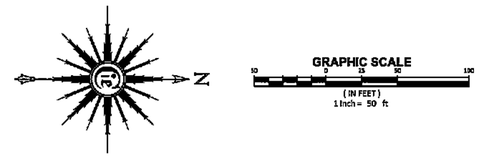

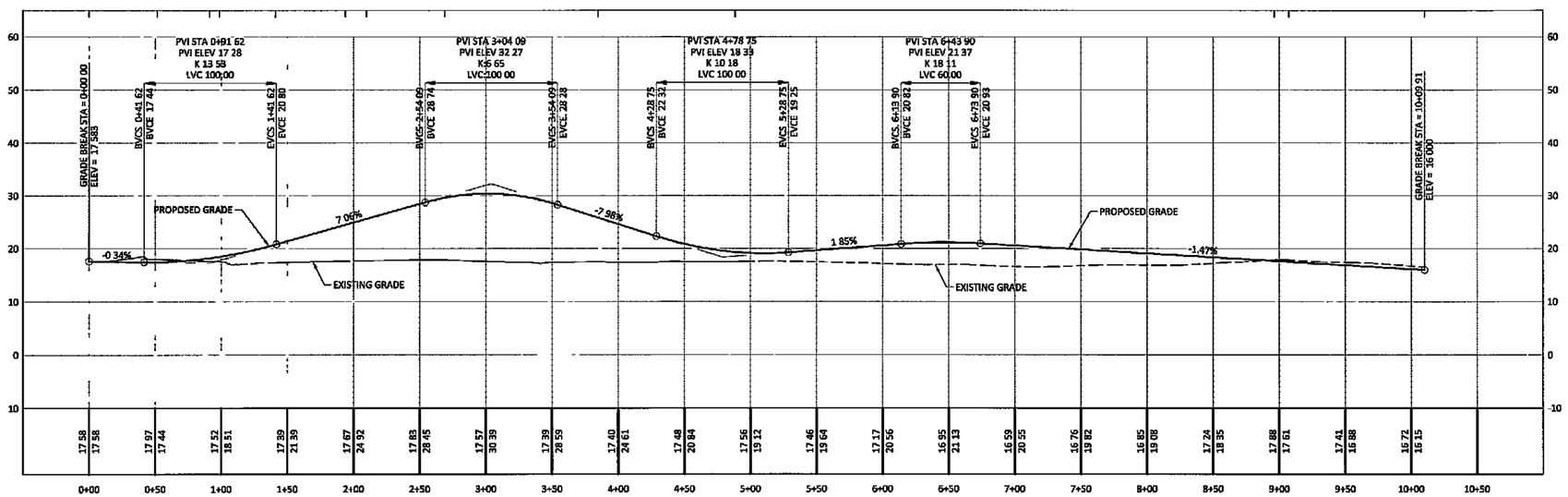

RESORT WAY (PRIVATE)
RIGHT-OF-WAY VARIES

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STATE OF FLORIDA
DAVID E. SMITH
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No. 59027
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
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P: 850.533.4370

SHEET TITLE
RESORT WAY
PLAN & PROFILE

SHEET NUMBER
13 OF 36

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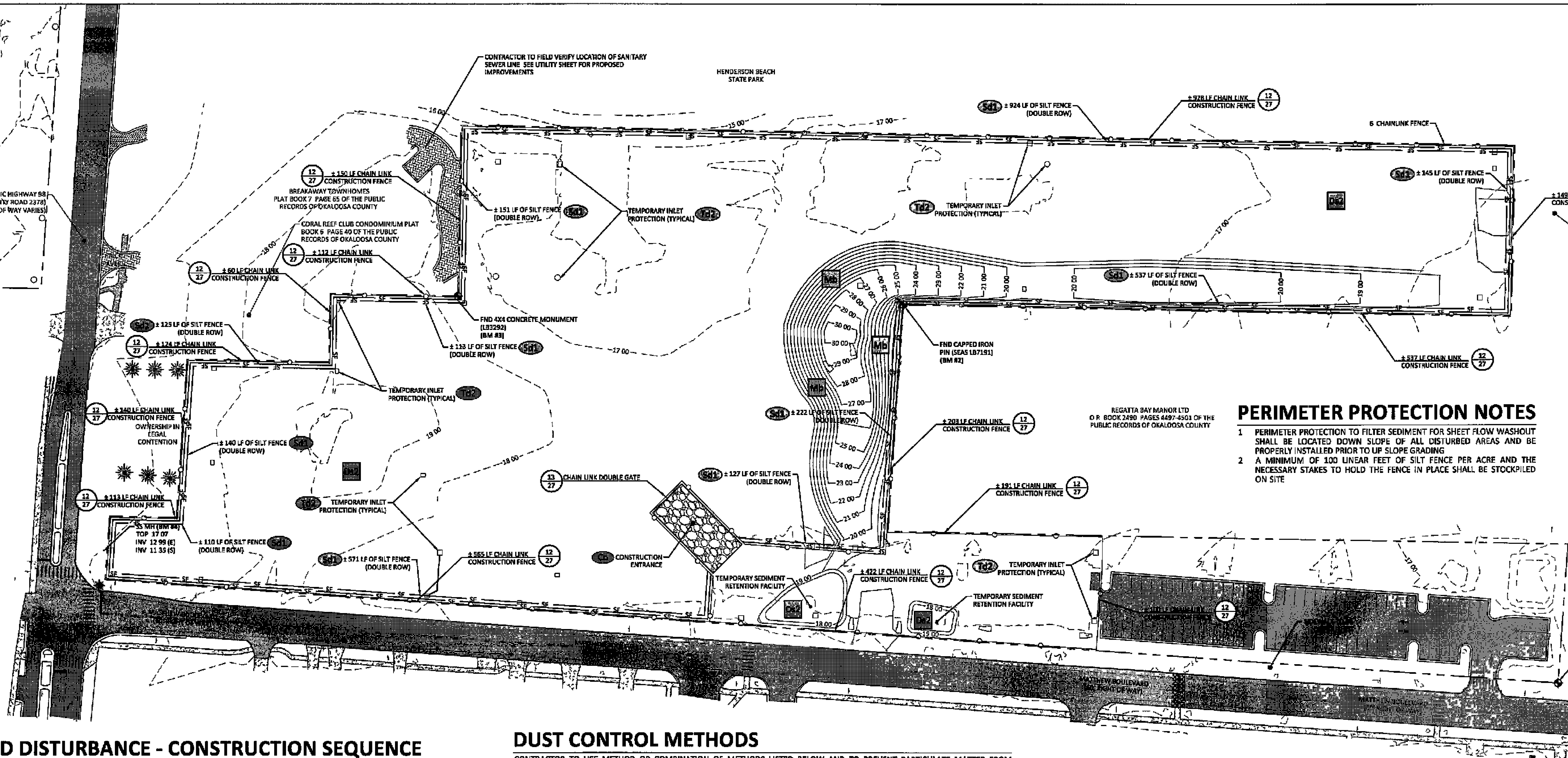

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft

PERIMETER PROTECTION NOTES

1. PERIMETER PROTECTION TO FILTER SEDIMENT FOR SHEET FLOW WASHOUT SHALL BE LOCATED DOWN SLOPE OF ALL DISTURBED AREAS AND BE PROPERLY INSTALLED PRIOR TO UP SLOPE GRADING
2. A MINIMUM OF 100 LINEAR FEET OF SILT FENCE PER ACRE AND THE NECESSARY STAKES TO HOLD THE FENCE IN PLACE SHALL BE STOCKPILED ON SITE

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MAY 23 2014
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LAND DISTURBANCE - CONSTRUCTION SEQUENCE

THE FOLLOWING IS THE PROPOSED CONSTRUCTION SEQUENCE, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, OR REVISIONS DICTATES A DEVIATION FROM THIS SCHEDULE

1. DEVELOPER TO FILE A NOTICE OF INTENT PRIOR TO LAND DISTURBANCE
2. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE ETC)
3. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES
4. INSTALL PERIMETER EROSION CONTROL DEVICES & CHAIN LINK FENCE ADJACENT TO PUBLIC ACCESS AREAS
5. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP)
6. INSTALL ALL STRUCTURAL EROSION CONTROL PRACTICES IN CONCENTRATED FLOW AREAS, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA
7. CONSTRUCT ALL REMAINING TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES SHOWN ON THE PHASE-1 ESCP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS
8. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION IF CLEARING MATERIALS ARE GROUND ON SITE, PLACING GROUND MULCH MATERIALS AT THE TOE OF ANY SLOPES WILL PROVIDE ADDITIONAL PROTECTION FROM EROSION ESCAPING THE SITE
9. ROAD GRADING & GRADING FOR THE REMAINDER OF SITE
10. UTILITY INSTALLATION AND WHETHER STORM DRAINS WILL BE USED OR BLOCKED AFTER CONSTRUCTION
11. BUILDING, PARKING LOT, AND SITE CONSTRUCTION
12. FINAL GRADING, LANDSCAPING AND/OR STABILIZATION
13. IMPLEMENTATION AND MAINTENANCE OF FINAL EROSION CONTROL STRUCTURES
14. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES

DEMOLITION & ESCP (PHASE 2) NOTES

1. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION REPAIR AND / OR REPLACE AS NECESSARY
2. WHERE SILT FENCE IS SHOWN OUTSIDE PROJECT BOUNDARY FOR CLARITY ONLY
3. ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS
4. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREA WITHIN THE CLEARING LIMITS DEPICTED HEREON INCLUDING DEMOLITION OF EXISTING INFRASTRUCTURE INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT BUT ONLY AFTER VERIFICATION FROM ENGINEER & RESPECTIVE UTILITY COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING, GRUBBING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK
5. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, A PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3 1), EMBANKMENTS OF PONDS, BASINS, AND TRAPS, AND WITHIN 14 CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS , THE REQUIREMENTS OF SECTION 11 09 03 OF THE DESTIN LAND DEVELOPMENT CODE DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING PERFORMED
6. ALL BARE GROUND, STRIPPED OF VEGETATION DURING THE CLEARING/GRADING PROCESS, SHALL BE COVERED TO THE MAXIMUM EXTENT PRACTICABLE
7. ALL DISTURBED AREAS SHALL BE COVERED AND/OR MULCHED WITHIN 12 HOURS, IF THEY ARE TO REMAIN UN-WORKED FOR MORE THAN 2 CALENDAR DAYS
8. AREAS NOT BEING WORKED FOR 30 CALENDAR DAYS OR MORE SHALL BE VEGETATED, UNLESS THE CITY DETERMINES THAT WINTER WEATHER MAKES VEGETATION ESTABLISHMENT INFEASIBLE IF THIS IS THE CASE, IT MUST STILL BE MORE PERMANENTLY STABILIZED, USING METHODS SUCH AS BONDED FIBER MATRIX, OR OTHER MORE STABLE BMPS
9. SLOPES & STOCKPILES 3H 1V OR STEEPER AND MORE THAN 10 FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE UN WORKED FOR MORE THAN 48 HOURS
10. AREAS THAT ARE BEING HYDRO SEEDED SHALL HAVE A TACKIFIER MIXED INTO THE HYDRO SEED TO HELP STABILIZE MIXTURE ONTO THE SOIL
11. ENOUGH COVER MATERIAL TO SUFFICIENTLY PROTECT ALL DISTURBED AREAS SHALL BE STOCKPILED ON THE SITE AT THE BEGINNING OF THE WEST SEASON
12. ROADS AND PARKING AREAS SHALL BE STABILIZED IMMEDIATELY AFTER THE INITIAL GRADING
13. ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF A SITE AND ONTO A ROADWAY SUCH AS WHEEL WASHING STATIONS MAY BE REQUIRED
14. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING/FLUSHING STREETS
15. ANY SEDIMENT THAT IS TRACKED ONTO ROAD PAVEMENT SHALL BE REMOVED IMMEDIATELY (PRIOR TO THE END OF THE WORK DAY) BY SWEEPING THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED FROM THE ROADWAY AND STABILIZED ON SITE

DUST CONTROL METHODS

CONTRACTOR TO USE METHOD OR COMBINATION OF METHODS LISTED BELOW AND TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND BEING TRANSPORTED OFF SITE

1. PHASING ONLY DISTURB AREAS LESS THAN ONE ACRE AT ONE TIME BEGIN CONSTRUCTION ACTIVITIES AT WEST SIDE OF SITE AND PROCEED TO EAST TO PROVIDE BUFFER AREA WHERE SHIFTING SOIL CAN BE ARRESTED
2. SCHEDULE DELAY EARTHWORK AND OTHER ACTIVITIES GENERATING PARTICULATE MATTER WHEN WIND VELOCITY IS GREATER THAN 30 MPH
3. RESTRICTING VEHICLES USE SIGNS AND OTHER TRAFFIC CONTROLS TO LIMIT SPEED AND ACCESS OF JOB SITE VEHICLES LIMIT SPEED TO 10 MPH MAXIMUM RESTRICT VEHICLE TRAFFIC IN DUST STABILIZED AREAS
4. EXCAVATED MATERIAL KEEP OUT OF ACTIVE TRAFFIC LANES IMMEDIATELY REMOVE EXCAVATED MATERIAL DEPOSITED IN ROADWAYS BY EROSION OR SPILLAGE COVER LOADS TRANSPORTED IN EARTH MOVING EQUIPMENT
5. WATERING USE SPRINKLER SYSTEM OR WATER TRUCK WITH SPRAY BOOM TO WATER DISTURBED AREA, AS NEEDED, TO ADEQUATELY CONTROL DUST
6. WINDBREAKS ERECT SNOW FENCES OR SIMILAR WINDBREAKS UPWIND AND WITHIN DISTURBED AREAS PLACE FENCES PERPENDICULAR TO PREVAILING WINDS AS APPROPRIATE
7. PALLIATIVES APPLY DUST PALLIATIVE TO STABILIZE SOILS AFTER EARTHWORK IS COMPLETED AND TO SANDY SOILS WHERE WATERING IS INEFFECTIVE DO NOT USE PALLIATIVE DETRIMENTAL TO VEGETATION IN AREAS OF FUTURE PLANT LANDSCAPING
8. OTHER METHODS THAT SUBSTANTIALLY AND EFFECTIVELY REDUCE TRANSPORTED MATERIAL OR EMISSION OF PARTICULATE MATTER INTO ATMOSPHERE
9. IF WATER TRUCK IS USED TO CONTROL DUST ON DIRT/GRADED AREAS ONLY, WATER TRUCK WILL ONLY DROP ENOUGH WATER TO CONTROL THE DUST OR REACH THE OPTIMUM MOISTURE CONTENT OF THE SOIL FOR COMPACTION NO RUN OFF IS TO BE GENERATED
10. CONTROLLING DUST ON PAVED ROADWAYS WILL BE DONE BY USE OF SWEEPER WITH WATER-JET SPRAYERS ONLY ENOUGH WATER SHOULD BE APPLIED TO CONTROL DUST WHILE SWEEPING DO NO GENERATE RUN OFF FROM SPRAYERS THAT RUNS INTO CATCH BASINS

VIBRATION IMPACT MITIGATION METHODS

DESIGN CONSIDERATIONS AND PROJECT LAYOUT
- ROUTE HEAVILY LOADED TRUCKS AWAY FROM RESIDENTIAL STREETS, IF POSSIBLE SELECT STREETS WITH FEWEST HOMES, IF NO ALTERNATIVES ARE AVAILABLE
- OPERATE EARTHMOVING EQUIPMENT ON THE CONSTRUCTION LOT AS FAR AWAY FROM VIBRATION SENSITIVE SITES AS POSSIBLE

SEQUENCE OF OPERATIONS
- PHASE DEMOLITION, EARTHMOVING AND GROUND IMPACTING OPERATIONS SO AS NOT TO OCCUR IN THE SAME TIME PERIOD UNLIKE NOISE, THE TOTAL VIBRATION LEVEL PRODUCED COULD BE SIGNIFICANTLY LESS WHEN EACH VIBRATION SOURCE OPERATES SEPARATELY
- AVOID NIGHTTIME ACTIVITIES PEOPLE ARE MORE AWARE OF VIBRATION IN THEIR HOMES DURING THE NIGHTTIME HOURS

ALTERNATIVE CONSTRUCTION METHODS
- SELECT DEMOLITION METHODS NOT INVOLVING IMPACT, WHERE POSSIBLE FOR EXAMPLE, MILLING GENERATES LOWER VIBRATION LEVELS THAN EXCAVATION USING CLAM SHELL OR CHISEL DROPS
- AVOID VIBRATORY ROLLERS AND PACKERS NEAR SENSITIVE AREAS

BENCHMARK DATA

BM #1 FND 1/2" IRON PIN (ECA LB 3724)
NORTHING 509431 2840
EASTING 1359813 5710
ELEVATION 17 62 (NAVD 1988)

BM #2 - FND 1/2" IRON PIN (SEAS LB 7191)
NORTHING 508853 8420
EASTING 1359479 9490
ELEVATION 17 66 (NAVD 1988)

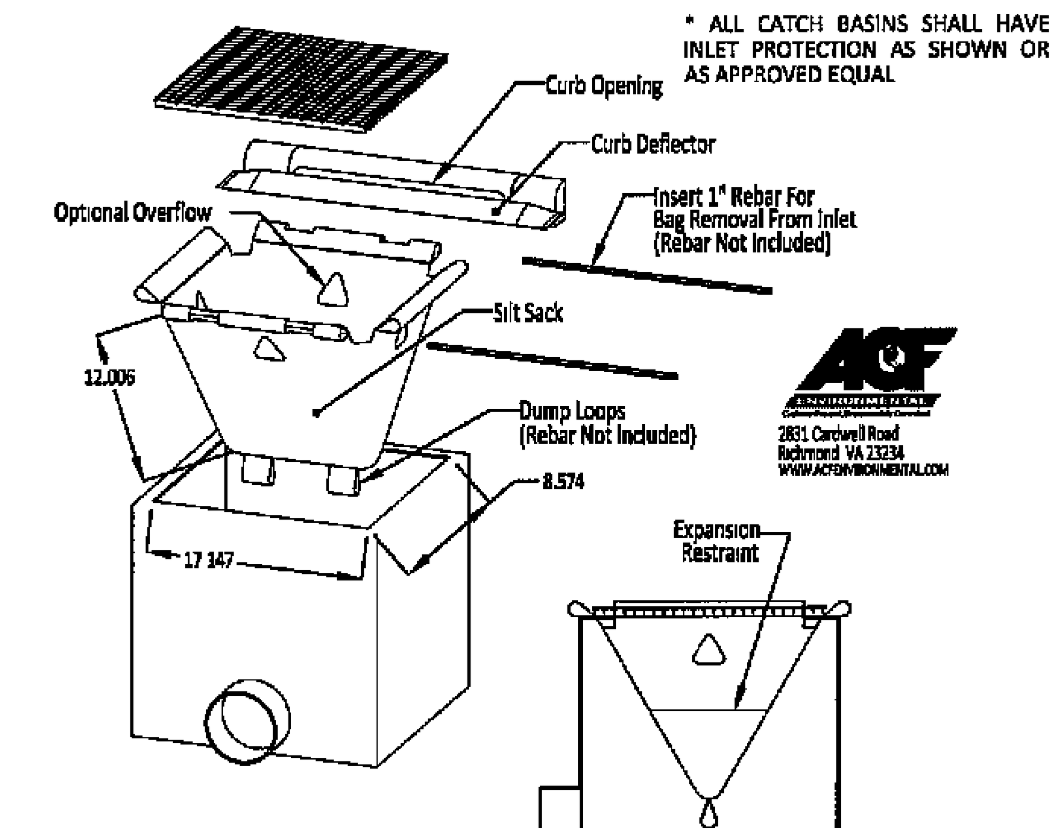
BM #3 FND 4 X4 " CONCRETE MONUMENT (LB 3292)
NORTHING 508461 0560
EASTING 1359472 4530
ELEVATION 15 99 (NAVD 1988)

BM #4 - SANITARY SEWER MANHOLE LID
NORTHING 508147 5100
EASTING 1359699 8590
ELEVATION 17 07 (NAVD 1988)

SEDIMENT RETENTION

1. SEDIMENT RETENTION FACILITIES SHALL BE INSTALLED BEFORE GRADING
2. IF SEDIMENT RETENTION FACILITIES NEED TO BE REMOVED FOR GRADING, ADDITIONAL PONDS/TRAPS/SYSTEMS TO ACCOMODATE STORAGE CAPACITY NEED TO BE INSTALLED ON SITE THIS WILL BE DONE PRIOR TO REMOVAL OF EXISTING FACILITY
3. CATCH BASIN INSERTS ARE TO BE USED TO PREVENT SEDIMENTS FROM ENTERING DRAINAGE SYSTEM INSERTS ARE TO BE INSPECTED AND CLEANED WEEKLY AND AFTER EACH RAINFALL EVENT
4. CATCH BASINS NEED TO BE CHECKED FOR BUILD UP OF SEDIMENTS IF SEDIMENT TRAP (AREA BETWEEN PIPE INVERT AND BOTTOM OF BASIN) IS 1/3 OR MORE FILLED WITH SEDIMENTS, THEY ARE TO BE CLEANED OUT AND SEDIMENTS REMOVED OR STABILIZED ON SITE

* ALL CATCH BASINS SHALL HAVE INLET PROTECTION AS SHOWN OR AS APPROVED EQUAL



ACF ENVIRONMENTAL
2831 Cardwell Road
Richmond VA 23234
WWW.ACFENVIRONMENTAL.COM

TEMPORART INLET PROTECTION DETAIL

NOT TO SCALE

EROSION CONTROL LEGEND			
STRUCTURAL PRACTICES			
Cd-Hb	HAYBALE CHECKDAM	SE	STORM OUTLET PROTECTION
Co	CONSTRUCTION EXIT	Sd1	SILT FENCE
Sd2-P	INLET SEDIMENT TRAP (ON PAVEMENT)	Sd2	HAYBALE SEDIMENT TRAP
Re	RETAINING WALL	Td2	TEMPORARY SEDIMENT TRAP
Lv	LEVEL SPREADER	Sd2-F	FILTER FABRIC SEDIMENT TRAP
VEGETATIVE PRACTICES			
Ds1	TEMPORARY STABILIZATION (MULCH)	Ds3	PERMANENT STABILIZATION (GRASS OR SOD)
Ds2	TEMPORARY STABILIZATION (GRASS)	Mb	MATTING AND BLANKETS

*CONSTRUCTION DETAILS FOR NOTED EROSION CONTROL MEASURES ARE INCLUDED ON SHEET 26 OF 36, EROSION CONTROL DETAILS, OF THIS PLAN SET

Ds1 ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR AS SOON AS FINAL GRADE IS ACHIEVED, WHICHEVER IS SOONER

AND/OR

Ds2 ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR AS SOON AS FINAL GRADE IS ACHIEVED, WHICHEVER IS SOONER USE FOR AREAS WHERE FUTURE DISTURBANCE WILL NOT OCCUR FOR 2 6 MONTHS

Ds3 ON ALL ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN 6 MONTHS APPLY IMMEDIATELY TO ALL DISTURBED AREAS AT FINAL GRADE

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PENSACOLA, FL 32505

SHEET TITLE
INTERIM EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

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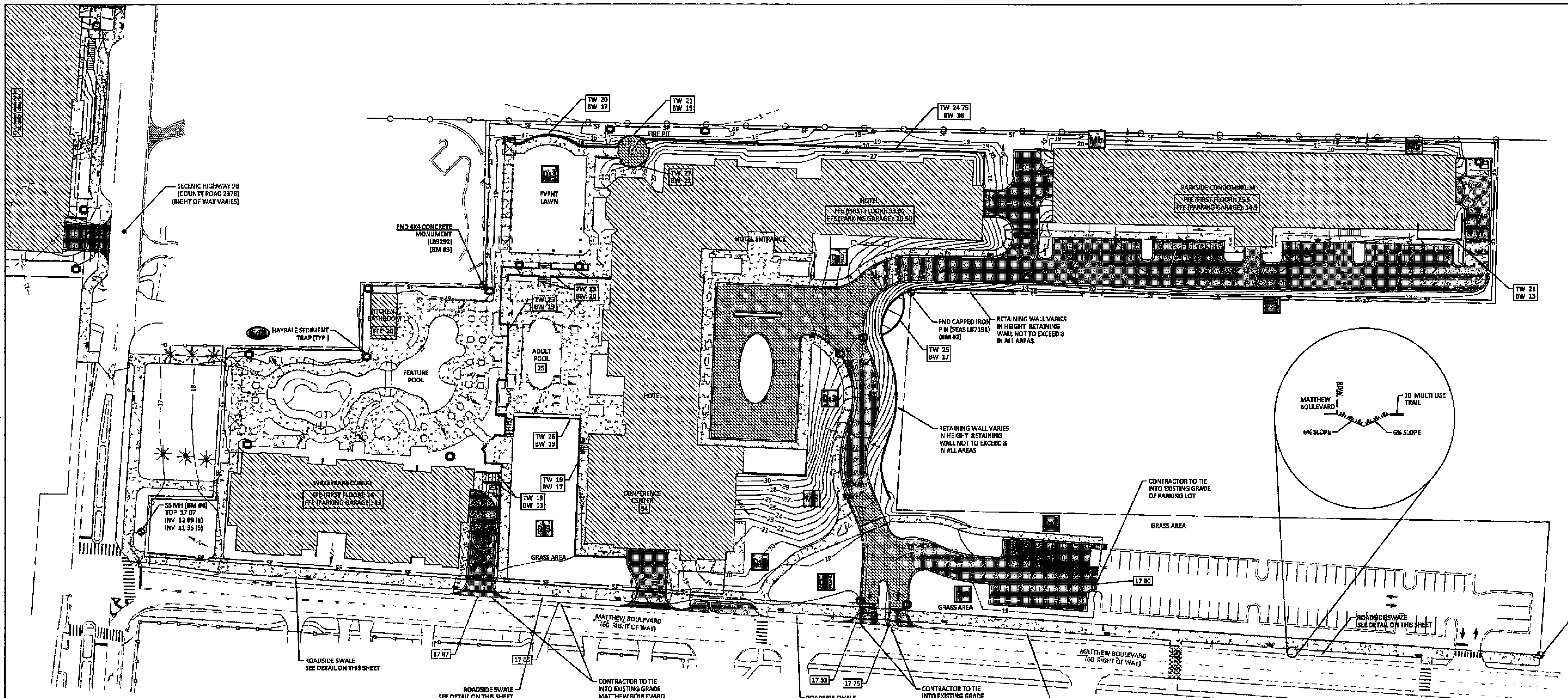

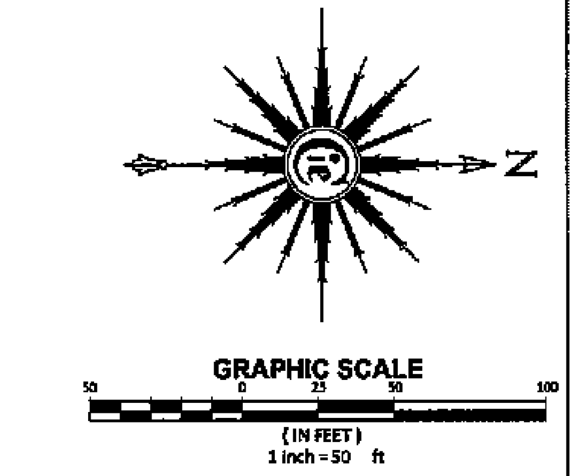

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MAY 2 3 2014
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3 CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES
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7 CONSTRUCT ALL REMAINING TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES SHOWN ON THE PHASE-1 ESCP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS
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9 ROAD GRADING & GRADING FOR THE REMAINDER OF SITE
10 UTILITY INSTALLATION AND WHETHER STORM DRAINS WILL BE USED OR BLOCKED AFTER CONSTRUCTION
11 BUILDING, PARKING LOT, AND SITE CONSTRUCTION
12 FINAL GRADING, LANDSCAPING AND/OR STABILIZATION
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14 REMOVAL OF TEMPORARY EROSION CONTROL DEVICES

DEMOLITION & ESCP (PHASE 3) NOTES

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3 ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS
4 THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREA WITHIN THE CLEARING LIMITS DEPICTED HEREON INCLUDING DEMOLITION OF EXISTING INFRASTRUCTURE INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT BUT ONLY AFTER VERIFICATION FROM ENGINEER & RESPECTIVE UTILITY COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING, GRUBBING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK
5 FOLLOWING INITIAL SOIL DISTURBANCE OR RE DISTURBANCE, A PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS ON ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3 1), EMBANKMENTS OF PONDS, BASINS, AND TRAPS, AND WITHIN 14 CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS , THE REQUIREMENTS OF SECTION 11 09 03 OF THE DESTIN LAND DEVELOPMENT CODE DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING PERFORMED
6 ALL BARE GROUND, STRIPPED OF VEGETATION DURING THE CLEARING/GRADING PROCESS, SHALL BE COVERED TO THE MAXIMUM EXTENT PRACTICABLE
7 ALL DISTURBED AREAS SHALL BE COVERED AND/OR MULCHED WITHIN 12 HOURS, IF THEY ARE TO REMAIN UN WORKED FOR MORE THAN 2 CALENDAR DAYS
8 AREAS NOT BEING WORKED FOR 30 CALENDAR DAYS OR MORE SHALL BE VEGETATED, UNLESS THE CITY DETERMINES THAT WINTER WEATHER MAKES VEGETATION ESTABLISHMENT INFEASIBLE IF THIS IS THE CASE, IT MUST STILL BE MORE PERMANENTLY STABILIZED, USING METHODS SUCH AS BONDED FIBER MATRIX, OR OTHER MORE STABLE BMPS
9 SLOPES & STOCKPILES 3H 1V OR STEEPER AND MORE THAN 10 FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE UN WORKED FOR MORE THAN 48 HOURS
10 AREAS THAT ARE BEING HYDRO SEEDED SHALL HAVE A TACKIFIER MIXED INTO THE HYDRO-SEED TO HELP STABILIZE MIXTURE ONTO THE SOIL
11 ENOUGH COVER MATERIAL TO SUFFICIENTLY PROTECT ALL DISTURBED AREAS SHALL BE STOCKPILED ON THE SITE AT THE BEGINNING OF THE WEST SEASON
12 ROADS AND PARKING AREAS SHALL BE STABILIZED IMMEDIATELY AFTER THE INITIAL GRADING
13 ADDITIONAL TECHNIQUES TO REDUCE SOIL TRACKING OFF OF A SITE AND ONTO A ROADWAY SUCH AS WHEEL WASHING STATIONS MAY BE REQUIRED
14 THE PAVEMENT SHALL NOT BE CLEANED BY WASHING/FLUSHING STREETS
15 ANY SEDIMENT THAT IS TRACKED ONTO ROAD PAVEMENT SHALL BE REMOVED IMMEDIATELY (PRIOR TO THE END OF THE WORK DAY) BY SWEEPING THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED FROM THE ROADWAY AND STABILIZED ON SITE

DUST CONTROL METHODS

CONTRACTOR TO USE METHOD OR COMBINATION OF METHODS LISTED BELOW AND TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND BEING TRANSPORTED OFF SITE

1 PHASING ONLY DISTURB AREAS LESS THAN ONE ACRE AT ONE TIME BEGIN CONSTRUCTION ACTIVITIES AT WEST SIDE OF SITE AND PROCEED TO EAST TO PROVIDE BUFFER AREA WHERE SHIFTING SOIL CAN BE ARRESTED
2 SCHEDULE DELAY EARTHWORK AND OTHER ACTIVITIES GENERATING PARTICULATE MATTER WHEN WIND VELOCITY IS GREATER THAN 30 MPH
3 RESTRICTING VEHICLES USE SIGNS AND OTHER TRAFFIC CONTROLS TO LIMIT SPEED AND ACCESS OF JOB SITE VEHICLES LIMIT SPEED TO 10 MPH MAXIMUM RESTRICT VEHICLE TRAFFIC IN DUST STABILIZED AREAS
4 EXCAVATED MATERIAL KEEP OUT OF ACTIVE TRAFFIC LANES IMMEDIATELY REMOVE EXCAVATED MATERIAL DEPOSITED IN ROADWAYS BY EROSION OR SPILLAGE COVER LOADS TRANSPORTED IN EARTH MOVING EQUIPMENT
5 WATERING USE SPRINKLER SYSTEM OR WATER TRUCK WITH SPRAY BOOM TO WATER DISTURBED AREA, AS NEEDED, TO ADEQUATELY CONTROL DUST
6 WINDBREAKS ERECT SNOW FENCES OR SIMILAR WINDBREAKS UPWIND AND WITHIN DISTURBED AREAS PLACE FENCES PERPENDICULAR TO PREVAILING WINDS AS APPROPRIATE
7 PALLIATIVES APPLY DUST PALLIATIVE TO STABILIZE SOILS AFTER EARTHWORK IS COMPLETED AND TO SANDY SOILS WHERE WATERING IS INEFFECTIVE DO NOT USE PALLIATIVE DETRIMENTAL TO VEGETATION IN AREAS OF FUTURE PLANT LANDSCAPING
8 OTHER METHODS THAT SUBSTANTIALLY AND EFFECTIVELY REDUCE TRANSPORTED MATERIAL OR EMISSION OF PARTICULATE MATTER INTO ATMOSPHERE
9 IF WATER TRUCK IS USED TO CONTROL DUST ON DIRT/GRADED AREAS ONLY, WATER TRUCK WILL ONLY DROP ENOUGH WATER TO CONTROL THE DUST OR REACH THE OPTIMUM MOISTURE CONTENT OF THE SOIL FOR COMPACTION NO RUN OFF IS TO BE GENERATED
10 CONTROLLING DUST ON PAVED ROADWAYS WILL BE DONE BY USE OF SWEEPER WITH WATER JET SPRAYERS ONLY ENOUGH WATER SHOULD BE APPLIED TO CONTROL DUST WHILE SWEEPING DO NO GENERATE RUN OFF FROM SPRAYERS THAT RUNS INTO CATCH BASINS

VIBRATION IMPACT MITIGATION METHODS

DESIGN CONSIDERATIONS AND PROJECT LAYOUT

- ROUTE HEAVILY LOADED TRUCKS AWAY FROM RESIDENTIAL STREETS, IF POSSIBLE SELECT STREETS WITH FEWEST HOMES, IF NO ALTERNATIVES ARE AVAILABLE
- OPERATE EARTHMOVING EQUIPMENT ON THE CONSTRUCTION LOT AS FAR AWAY FROM VIBRATION SENSITIVE SITES AS POSSIBLE

SEQUENCE OF OPERATIONS

- PHASE DEMOLITION, EARTHMOVING AND GROUND IMPACTING OPERATIONS SO AS NOT TO OCCUR IN THE SAME TIME PERIOD UNLIKE NOISE, THE TOTAL VIBRATION LEVEL PRODUCED COULD BE SIGNIFICANTLY LESS WHEN EACH VIBRATION SOURCE OPERATES SEPARATELY
- AVOID NIGHTTIME ACTIVITIES PEOPLE ARE MORE AWARE OF VIBRATION IN THEIR HOMES DURING THE NIGHTTIME HOURS

ALTERNATIVE CONSTRUCTION METHODS

- SELECT DEMOLITION METHODS NOT INVOLVING IMPACT, WHERE POSSIBLE FOR EXAMPLE, MILLING GENERATES LOWER VIBRATION LEVELS THAN EXCAVATION USING CLAM SHELL OR CHISEL DROPS
- AVOID VIBRATORY ROLLERS AND PACKERS NEAR SENSITIVE AREAS

FINAL STABILIZATION

1 ALL TEMPORARY CONSTRUCTION DRIVEWAY ENTRANCES SHALL BE REMOVED AND THE RIGHT OF-WAY RE GRADED, RESTORED AND RE VEGETATED TO ORIGINAL OR BETTER CONDITION
2 ALL DISTURBED AREAS OF THE SITE SHALL BE VEGETATED OR OTHERWISE PERMANENTLY STABILIZED
3 STRUCTURAL MEASURES SUCH AS SILT FENCE, SLOPE DRAINS, ETC SHALL BE REMOVED FROM SITE
4 ALL PERMANENT STORMWATER FACILITIES INCLUDING CATCH BASINS, PIPES, ETC SHALL BE CLEANED
5 ANY OFF-SITE CATCH BASINS OR CURB INLETS THAT REQUIRED PROTECTION SHALL BE CLEANED

POST CONSTRUCTION MONITORING

1 SEDIMENT/SOIL EROSION LEAVING A SITE OR PROPERTY SHALL BE PROHIBITED
2 SEDIMENT/SOIL EROSION FROM UPLANDS INTO ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROHIBITED
3 DUMPING OR PILING VEGETATIVE DEBRIS OR CLIPPINGS IN ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROHIBITED
4 TRACKING SEDIMENT OR SOIL ONTO A ROADWAY SHALL BE PROHIBITED

BENCHMARK DATA

BM #1 - FND 1/2" IRON PIN
(ECA LB 3724)
NORTHING 509431 2840
EASTING 1359813 5710
ELEVATION 17 62 (NAVD 1988)

BM #2 - FND 1/2" IRON PIN
(SEAS LB 7191)
NORTHING 508853 8420
EASTING 1359479 9490
ELEVATION 17 66 (NAVD 1988)

BM #3 FND 4"X4" CONCRETE MONUMENT
(LB 3292)
NORTHING 508461 0660
EASTING 1359472 4530
ELEVATION 15 99 (NAVD 1988)

BM #4 SANITARY SEWER MANHOLE LID
NORTHING 508147 5100
EASTING 1359699 8590
ELEVATION 17 07 (NAVD 1988)

EROSION CONTROL LEGEND			
STRUCTURAL PRACTICES			
Cd-Hb	HAYBALE CHECKDAM	St	STORM OUTLET PROTECTION
Co	CONSTRUCTION EXIT	Sd1	SILT FENCE
Sd2-P	INLET SEDIMENT TRAP (ON PAVEMENT)	Sd2	HAYBALE SEDIMENT TRAP
Re	RETAINING WALL	Td2	TEMPORARY SEDIMENT TRAP
Lv	LEVEL SPREADER	Sd2-F	FILTER FABRIC SEDIMENT TRAP
VEGETATIVE PRACTICES			
Ds1	TEMPORARY STABILIZATION (MULCH)	Ds3	PERMANENT STABILIZATION (GRASS OR SOD)
Ds2	TEMPORARY STABILIZATION (GRASS)	Mb	MATTING AND BLANKETS

*CONSTRUCTION DETAILS FOR NOTED EROSION CONTROL MEASURES ARE INCLUDED ON SHEET 26 OF 36, EROSION CONTROL DETAILS, OF THIS PLAN SET

Ds1 ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR AS SOON AS FINAL GRADE IS ACHIEVED, WHICHEVER IS SOONER

AND/OR

Ds2 ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR AS SOON AS FINAL GRADE IS ACHIEVED, WHICHEVER IS SOONER USE FOR AREAS WHERE FUTURE DISTURBANCE WILL NOT OCCUR FOR 2-6 MONTHS

Ds3 ON ALL ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN 6 MONTHS APPLY IMMEDIATELY TO ALL DISTURBED AREAS AT FINAL GRADE

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HENDERSON BEACH RESORT

DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

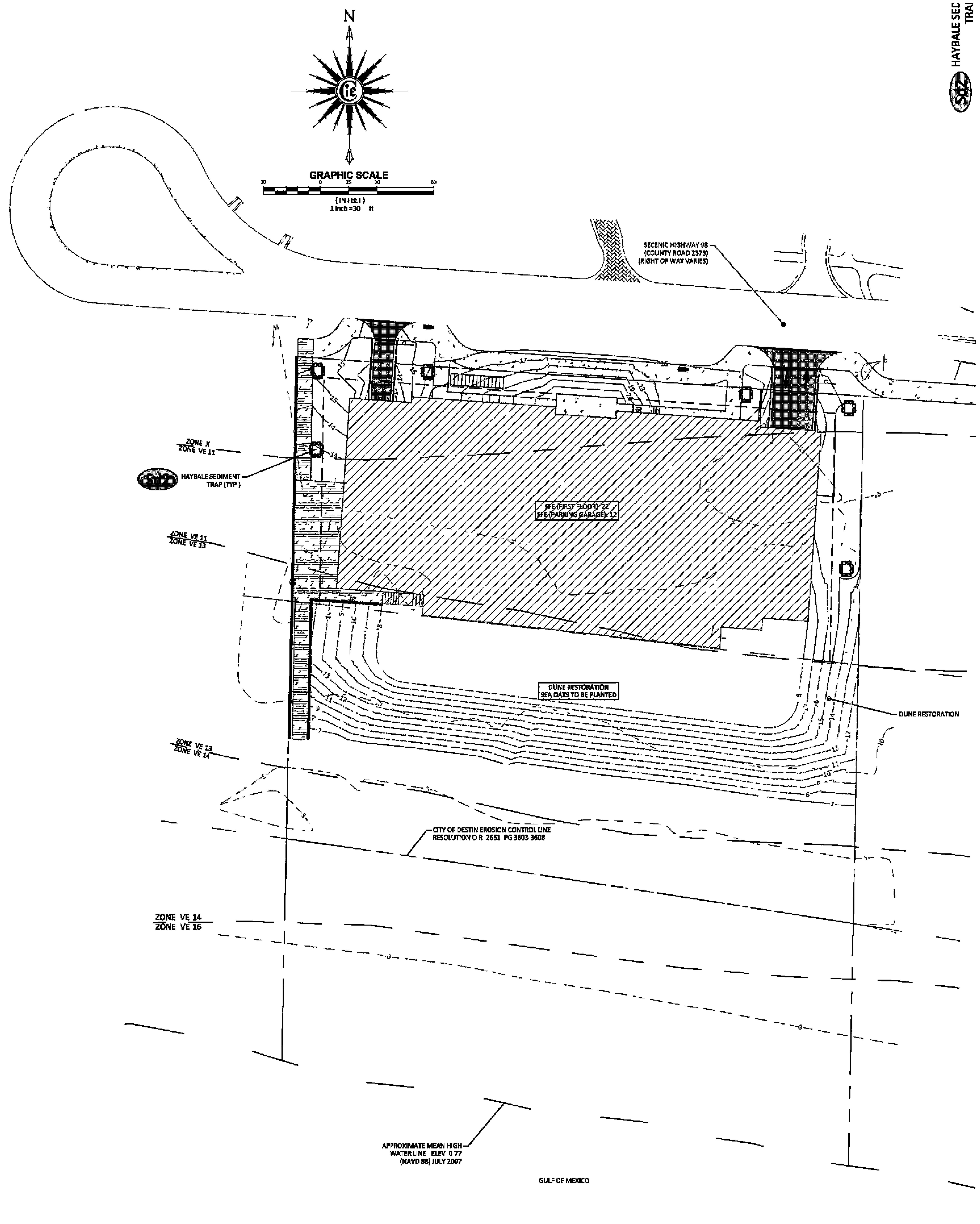
RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID SMITH
LICENSE No 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505

SHEET TITLE
PERMANENT EROSION CONTROL & SEDIMENT PROTECTION (1 OF 2)

SHEET NUMBER
15 OF 36

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (IEC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED IEC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT



LAND DISTURBANCE - CONSTRUCTION SEQUENCE

THE FOLLOWING IS THE PROPOSED CONSTRUCTION SEQUENCE, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, OR REVISIONS DICTATES A DEVIATION FROM THIS SCHEDULE

1. DEVELOPER TO FILE A NOTICE OF INTENT PRIOR TO LAND DISTURBANCE
2. SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE, ETC)
3. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES
4. INSTALL PERIMETER EROSION CONTROL DEVICES & CHAIN LINK FENCE ADJACENT TO PUBLIC ACCESS AREAS
5. CLEAR AND GRUB ROUTES TO AREAS FOR TEMPORARY AND PERMANENT STRUCTURAL BEST MANAGEMENT PRACTICES (BMP)
6. INSTALL ALL STRUCTURAL EROSION CONTROL PRACTICES IN CONCENTRATED FLOW AREAS, AS SHOWN ON THE PLANS, WITH MINIMAL DISTURBANCE TO THE ADJACENT AREA
7. CONSTRUCT ALL REMAINING TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES SHOWN ON THE PHASE-1 ESCP CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS
8. CONTRACTOR SHALL COMPLETE CLEARING AND GRUBBING FOR REMAINING AREAS OF CONSTRUCTION IF CLEARING MATERIALS ARE GROUND ON SITE, PLACING GROUND MULCH MATERIALS AT THE TOE OF ANY SLOPES WILL PROVIDE ADDITIONAL PROTECTION FROM EROSION ESCAPING THE SITE
9. ROAD GRADING & GRADING FOR THE REMAINDER OF SITE
10. UTILITY INSTALLATION AND WHETHER STORM DRAINS WILL BE USED OR BLOCKED AFTER CONSTRUCTION
11. BUILDING, PARKING LOT, AND SITE CONSTRUCTION
12. FINAL GRADING, LANDSCAPING AND/OR STABILIZATION
13. IMPLEMENTATION AND MAINTENANCE OF FINAL EROSION CONTROL STRUCTURES
14. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES

DEMOLITION & ESCP (PHASE 1) NOTES

1. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION REPAIR AND / OR REPLACE AS NECESSARY
2. WHERE SILT FENCE IS SHOWN OUTSIDE PROJECT BOUNDARY FOR CLARITY ONLY
3. ALL EXISTING BUILDING MATERIALS, CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL AS INDICATED ON THE PLANS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS
4. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREA WITHIN THE CLEARING LIMITS DEPICTED HEREON INCLUDING DEMOLITION OF EXISTING INFRASTRUCTURE INCLUDING UNDERGROUND UTILITIES WHETHER DEPICTED HEREON OR NOT BUT ONLY AFTER VERIFICATION FROM ENGINEER & RESPECTIVE UTILITY COMPANY IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACCOUNT FOR IN BID ALL REQUIRED CLEARING, GRUBBING & DEMOLITION NECESSARY TO ACCOMPLISH THIS TASK
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DUST CONTROL METHODS

CONTRACTOR TO USE METHOD OR COMBINATION OF METHODS LISTED BELOW AND TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND BEING TRANSPORTED OFF-SITE

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- ROUTE HEAVILY LOADED TRUCKS AWAY FROM RESIDENTIAL STREETS, IF POSSIBLE SELECT STREETS WITH FEWEST HOMES, IF NO ALTERNATIVES ARE AVAILABLE
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SEQUENCE OF OPERATIONS

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ELEVATION 17 62 (NAVD 1988)

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(LB 3292)
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Co	CONSTRUCTION EXIT	Sd1	SILT FENCE
Sd2-P	INLET SEDIMENT TRAP (ON PAVEMENT)	Sd2	HAYBALE SEDIMENT TRAP
Re	RETAINING WALL		
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Ds2	TEMPORARY STABILIZATION (GRASS)	Mb	MATTING AND BLANKETS

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AND/OR

Ds2 ON ALL DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE OR AS SOON AS FINAL GRADE IS ACHIEVED, WHICHEVER IS SOONER USE FOR AREAS WHERE FUTURE DISTURBANCE WILL NOT OCCUR FOR 2 6 MONTHS

Ds3 ON ALL ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN 6 MONTHS APPLY IMMEDIATELY TO ALL DISTURBED AREAS AT FINAL GRADE

DEMOLITION & EROSION CONTROL LEGEND

BRICK PAVERS (TO REMAIN)	VEGETATION LINE (DEMO)
BRICK PAVERS (DEMO)	WOOD FENCE
PAVEMENT (TO REMAIN)	CHAINLINK FENCE
PAVEMENT (DEMO)	BOUNDARY
CONCRETE (TO REMAIN)	SANITARY SEWER MANHOLE (TO REMAIN)
CONCRETE (DEMO)	SANITARY SEWER MANHOLE (DEMO)
CONCRETE TILE (TO REMAIN)	FIRE HYDRANT (TO REMAIN)
CONCRETE TILE (DEMO)	FIRE HYDRANT (DEMO)
GRAVEL (TO REMAIN)	WATER VALVE (TO REMAIN)
GRAVEL (DEMO)	WATER VALVE (DEMO)
STRUCTURE (TO REMAIN)	WATER METER (TO REMAIN)
STRUCTURE (DEMO)	WATER METER (DEMO)
15 00 MAJOR CONTOUR	IRRIGATION CONTROL VALVE
MINOR CONTOUR	STORM MANHOLE
	GRATE INLET

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

ABBREVIATIONS

R/W	RIGHT OF WAY	NAD83	NORTH AMERICAN DATUM 1983
N	NORTH	DNR	DEPARTMENT OF NATURAL RESOURCES
S	SOUTH	ORB	OFFICIAL RECORD BOOK
E	EAST	PG	PAGE
W	WEST	ELEV / EL	ELEVATION
SQ FT	SQUARE FEET	(R)	RECORD DIMENSION
AC	ACRES	°	DEGREES WHEN USED IN A BEARING OR ANGLE
L1	LINE & NUMBER TO LINE TABLE	'	MINUTES WHEN USED IN A BEARING OR ANGLE
C1	CURVE & NUMBER TO CURVE TABLE	"	SECONDS WHEN USED IN A BEARING OR ANGLE
LB	LICENSED BUSINESS	'	FEET OR DECIMAL THEREOF WHEN USED IN A DIMENSION
#	NUMBER		
ID	IDENTIFICATION	"	INCHES WHEN USED IN A DIMENSION
NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929	±	MORE OR LESS

No changes shall be made to, and construction shall not deviate from, these approved plans without prior written approval from the City of Destin Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

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www callsunshine com

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DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

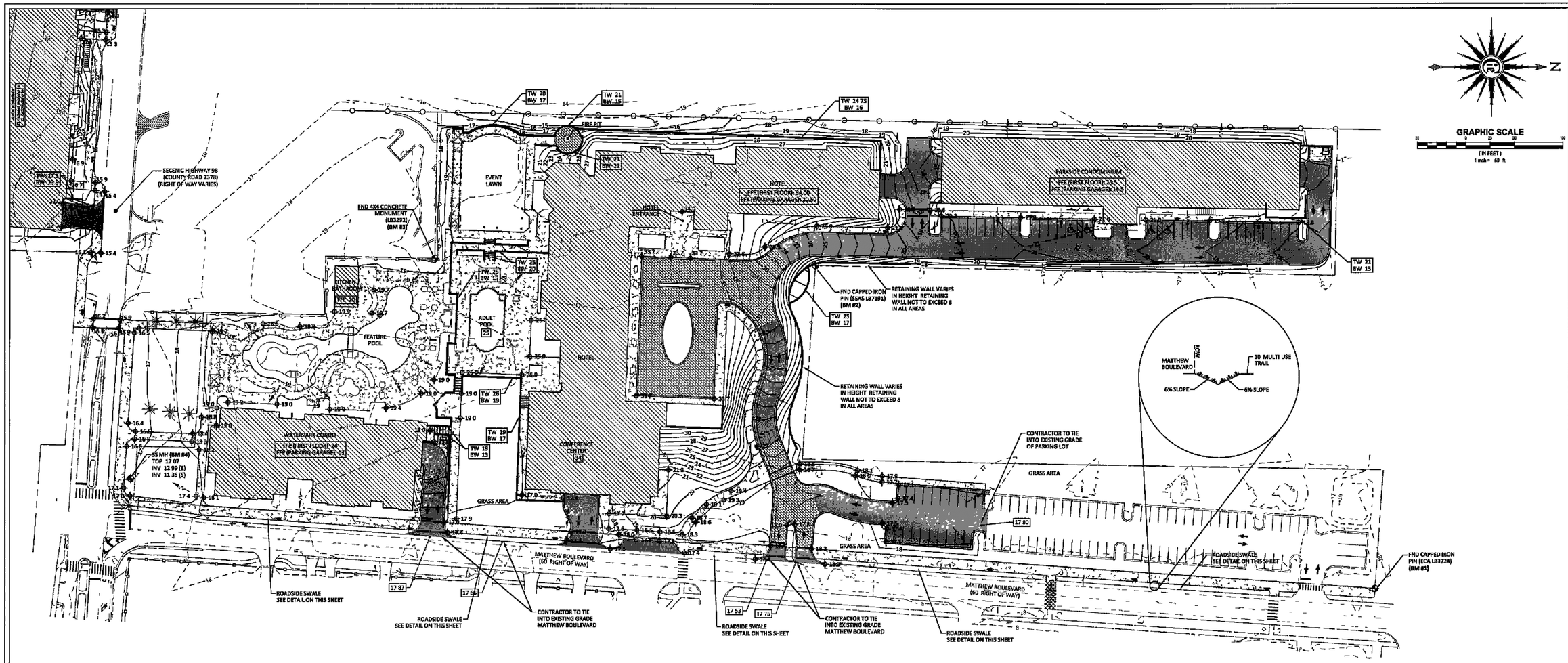
RECORD DATA
DATE 11 15 2013
REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID E SMITH
LICENSE No 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505

SHEET TITLE
PERMANENT EROSION CONTROL & SEDIMENT PROTECTION (2 OF 2)

SHEET NUMBER

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (IEC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED IEC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT



GRADING & DRAINAGE NOTES

- ALL DISTURBED AREAS TO BE PERMANENTLY GRASSED AND RETENTION AREAS TO BE SODDED ALL SLOPES 3 1 AND STEEPER SHALL BE SODDED
- EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON SITE FOR THE DURATION OF CONSTRUCTION
- CONTRACTORS SHALL MAINTAIN PUBLIC ACCESS AT ALL TIMES ALONG PRIVATE, CITY AND COUNTY RIGHT OF WAYS
- NO PARKING OR UNLOADING OF MATERIALS SHALL OCCUR WITHIN RIGHT OF WAY WITHOUT PRIOR APPROVAL FROM THE CITY OF DESTIN
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WITHIN THE PUBLIC AND PRIVATE RIGHT-OF WAY AND SHALL REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES TO THE PRIVATE AND PUBLIC RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE
- CONTRACTOR SHALL NOT RELOCATE ANY SIDEWALK OR MULTI USE PATH WITHIN THE RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE CITY OR COUNTY ENGINEER
- CONTRACTOR SHALL MARK ALL CROSSWALKS AND MULTI USE PATH CROSSINGS TO INDICATE THEM AS A PEDESTRIAN PATHWAY AFTER THE FINAL DRIVEWAY IS IN PLACE
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BENCHMARK DATA

BM #1 - FND 1/2" IRON PIN
(ECA LB 3724)
NORTHING 509431 2840
EASTING 1359813 5710
ELEVATION 17 62 (NAVD 1988)

BM #2 - FND 1/2" IRON PIN
(SEAS LB 7191)
NORTHING 508853 8420
EASTING 1359479 9490
ELEVATION 17 66 (NAVD 1988)

BM #3 - FND 4"X4" CONCRETE MONUMENT
(LB 3292)
NORTHING 508461 0660
EASTING 1359472 4530
ELEVATION 15 99 (NAVD 1988)

BM #4 - SANITARY SEWER MANHOLE LID
NORTHING 508147 5100
EASTING 1359699 8590
ELEVATION 17 07 (NAVD 1988)

GRADING PLAN LEGEND

BRICK PAVERS	BOUNDARY
PAVEMENT	SANITARY SEWER MANHOLE
CONCRETE	FIRE HYDRANT
CONCRETE TILE	WATER VALVE
GRAVEL	WATER METER
STRUCTURE	IRRIGATION CONTROL VALVE
COASTAL BARRIER ZONE	STORM MANHOLE
15 00 MAJOR CONTOUR	GRATE INLET
5 00 MINOR CONTOUR	FOUND NAIL & DISK
VEGETATION LINE	FOUND 4"X4" CONCRETE MONUMENT
WOOD FENCE	FOUND CAPPED IRON PIN WITH CAP
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ABBREVIATIONS

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NGVD29	NATIONAL GEODETIC VERTICAL DATUM 1929	±	MORE OR LESS

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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DESTIN, FLORIDA 32541

RECORD DATA
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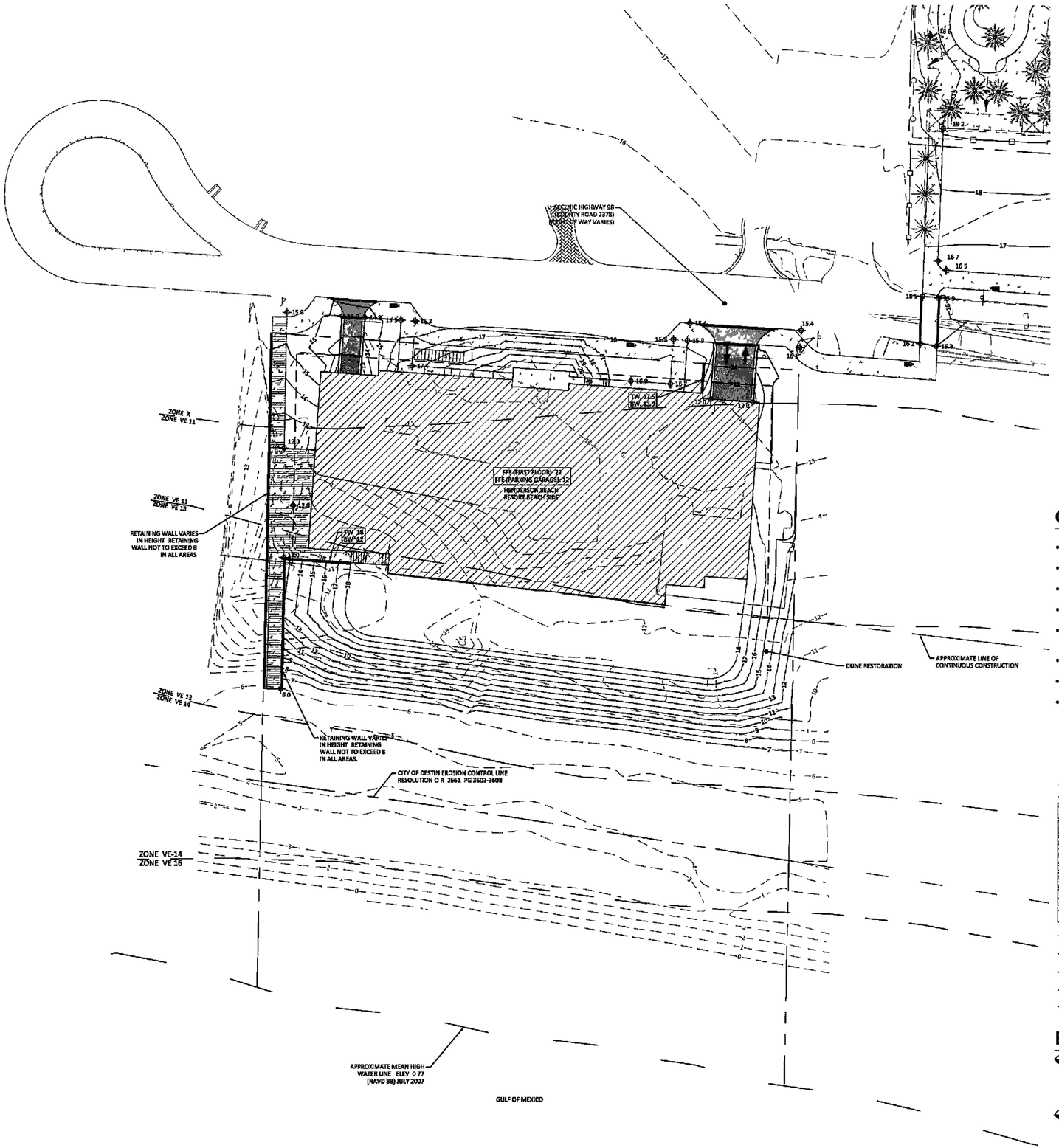
PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

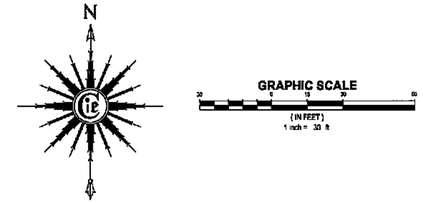
SEAL
DAVID E. SMITH
LICENSE No 46987
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5430 NORTH W STREET
PENSACOLA, FL 32505
P: 850.333.4370

SHEET TITLE
GRADING PLAN (1 OF 2)

SHEET NUMBER
17 OF 36

INNERLIGHT ENGINEERING CORPORATION | THE DRAWINGS SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY INNERLIGHT ENGINEERING CORPORATION (ILC) ARE FOR THE SOLE USE ON THIS PROJECT UNLESS OTHERWISE PROVIDED ILC SHALL BE DEEMED THE AUTHOR AND RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT





GRADING & DRAINAGE NOTES

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DESTIN, FLORIDA 32541

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DAVID E. SMITH
LICENSE NO. 59927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5450 NORTH W STREET
PENSACOLA, FL 32505
P 850 333 4370

SHEET TITLE
GRADING PLAN
(2 OF 2)

SHEET NUMBER
18 OF 36

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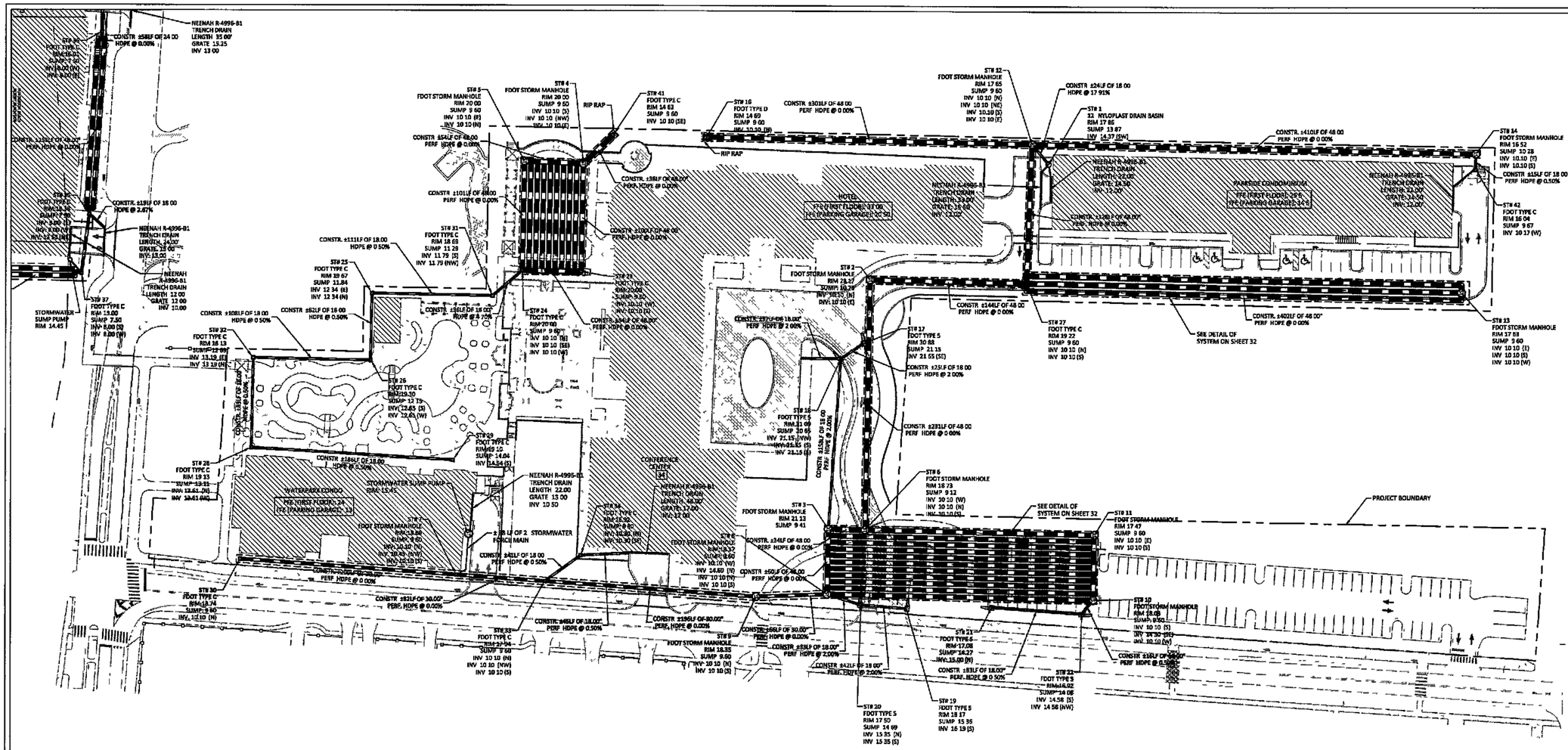

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DRAINAGE PLAN LEGEND

- PROPOSED BRICK PAVERS
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING CONCRETE WALK
- PROPOSED CONCRETE WALK
- BOUNDARY

ABBREVIATIONS

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APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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DESTIN, FLORIDA 32541

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LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
5430 NORTH W STREET
PENSACOLA, FL 32505
P 850.333.4720

SHEET TITLE
DRAINAGE PLAN
(1 OF 2)

SHEET NUMBER
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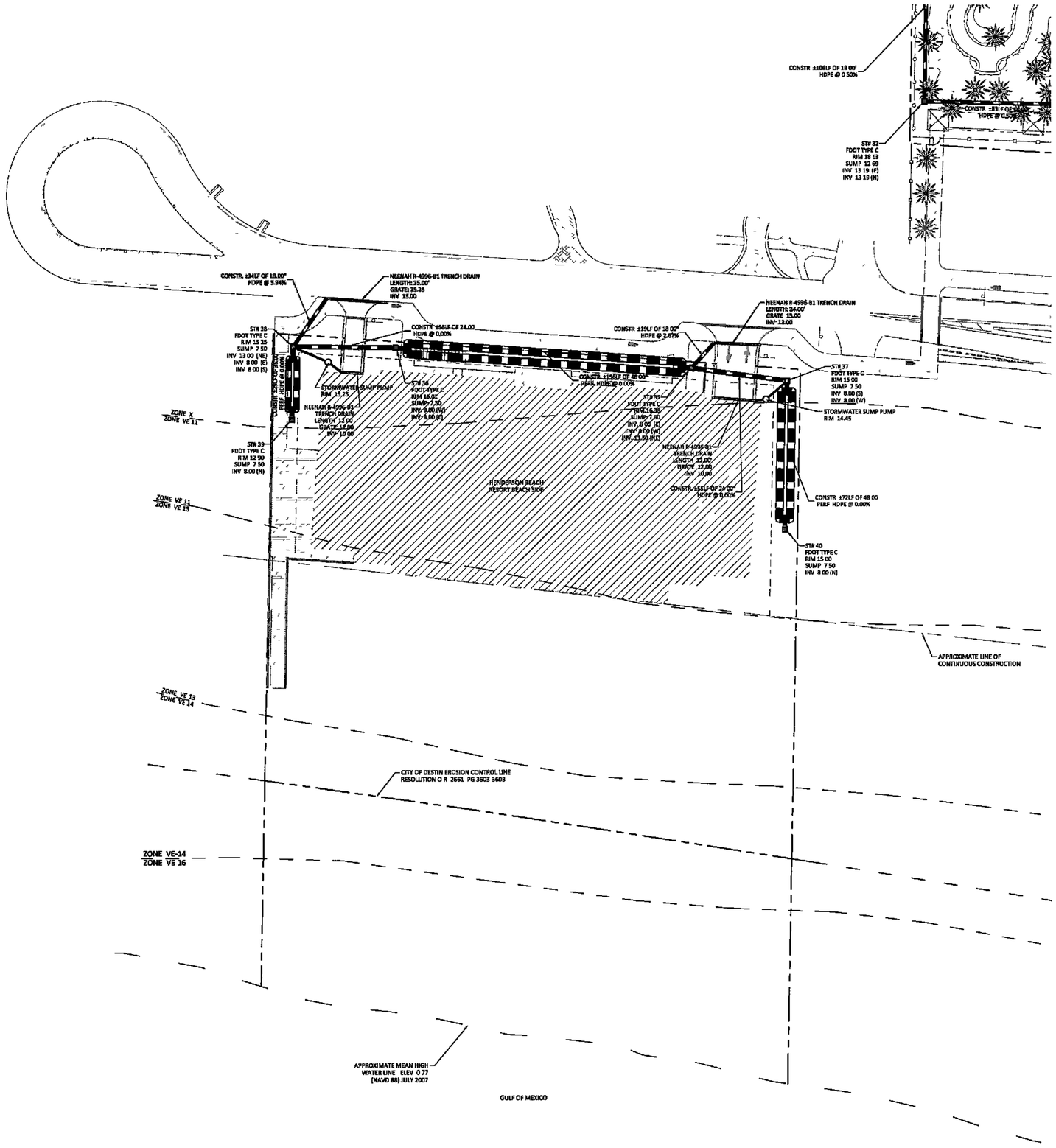

N

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft

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APPROVED
MAY 2 2014
City of Destin
Technical Review Team

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LICENSE
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STATE OF
PROFESSIONAL ENGINEER

SHEET TITLE
DRAINAGE PLAN
(2 OF 2)

SHEET NUMBER
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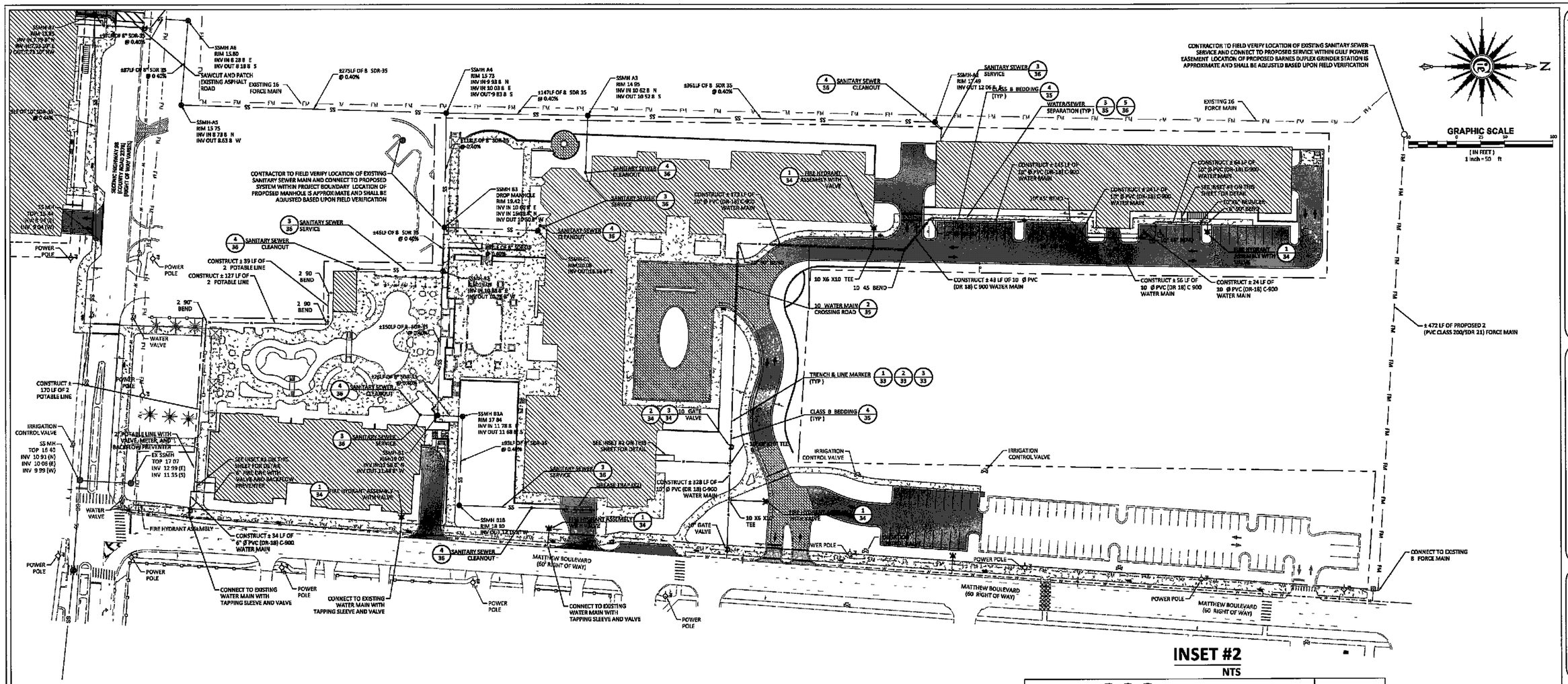

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2. A PRE CONSTRUCTION MEETING SHALL BE HELD WITH THE CONTRACTOR, DEVELOPER, ENGINEER OF RECORD, CITY OF DESTIN, AND DESTIN WATER USERS WHEN FDEP PERMITS HAVE BEEN ISSUED AND PRIOR TO CONSTRUCTION

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3. WATER MAIN TO BE CONSTRUCTED PER DESTIN WATER USERS' STANDARD SPECIFICATIONS
4. FIRE HYDRANTS TO BE ASSEMBLED PER DESTIN WATER USERS' SPECIFICATIONS WITH APPROPRIATE 6" DUCTILE IRON LEADER AND 6" GATE VALVES
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- BOUNDARY
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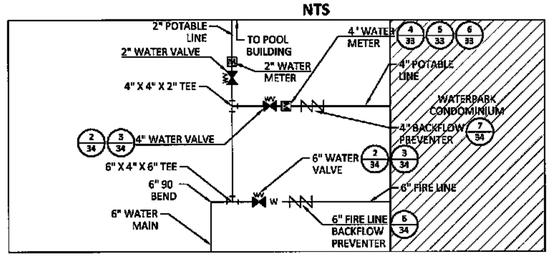
- PROPOSED WATER LINE
- EXISTING SANITARY LINE
- PROPOSED SANITARY LINE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING WATER METER
- PROPOSED WATER METER
- PROPOSED BACKFLOW PREVENTER

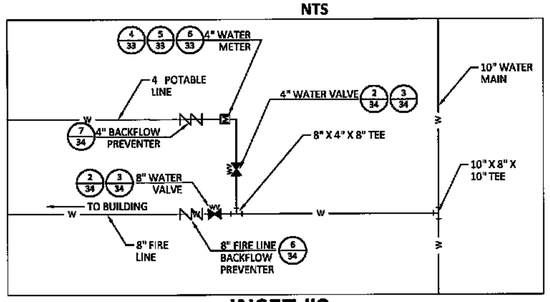
INSET #1

NTS



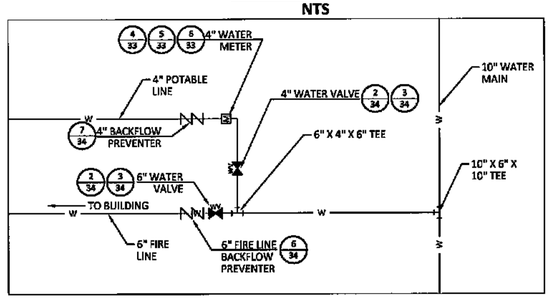
INSET #2

NTS



INSET #3

NTS



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SHEET TITLE
UTILITY PLAN (1 OF 2)

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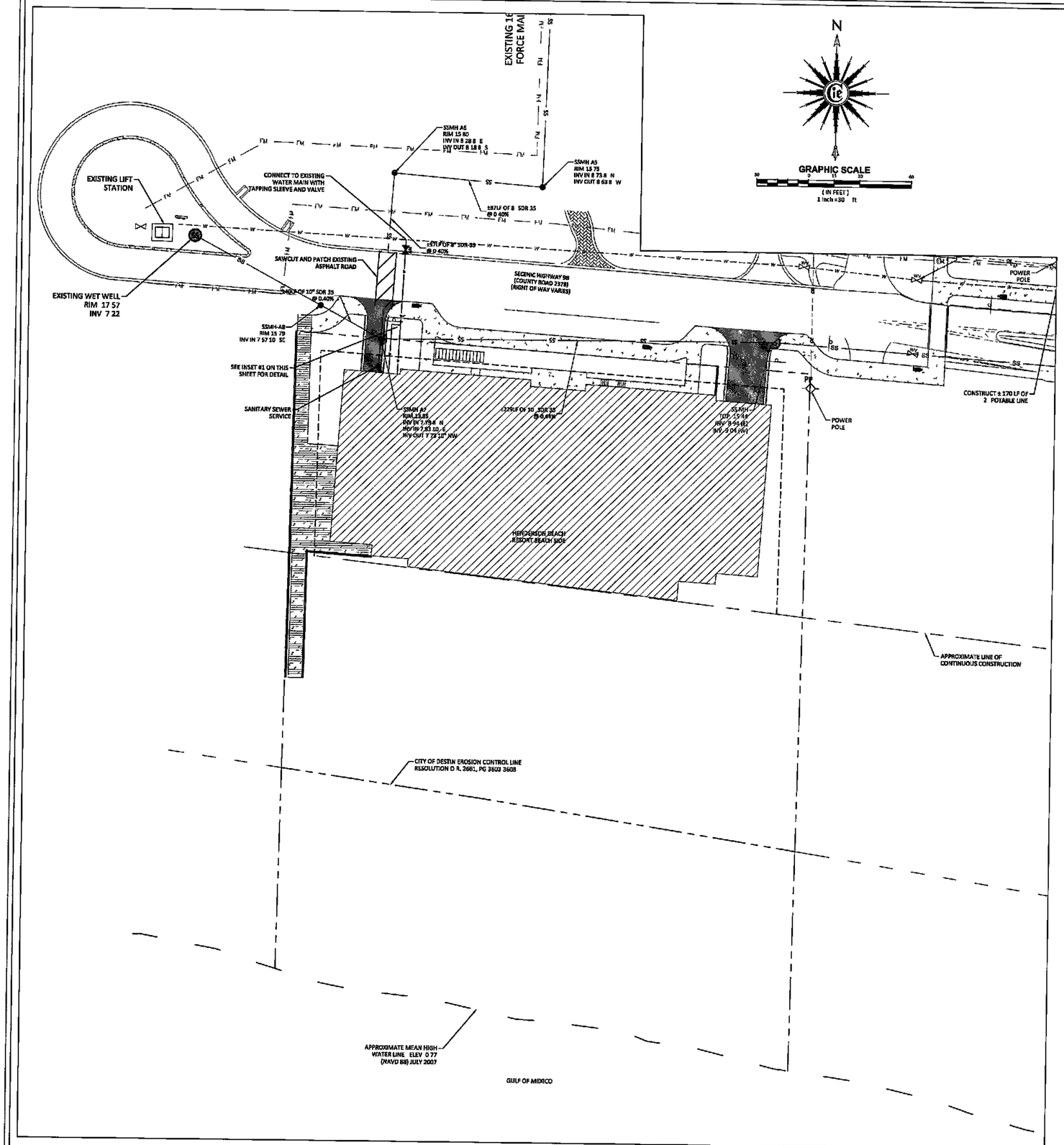

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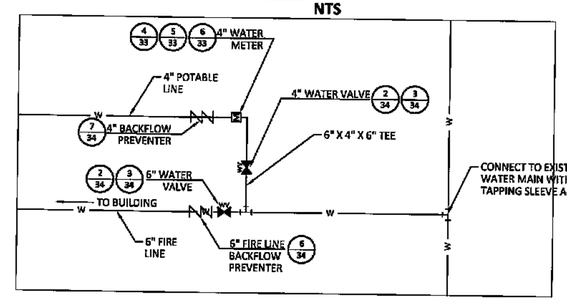
6. CONTRACTOR SHALL COORDINATE WITH DESTIN WATER USERS PRIOR TO MAKING ANY CONNECTIONS

UTILITY PLAN LEGEND

- PROPOSED BRICK PAVERS
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PROPOSED CONCRETE WALK
- BOUNDARY
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY LINE
- PROPOSED SANITARY LINE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING WATER METER
- PROPOSED WATER METER
- PROPOSED BACKFLOW PREVENTER

INSET #1

NTS



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DESTIN, FLORIDA 32541

RECORD DATA
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REV DATE 05 21 2014
PROJ NO 131 0 0 10
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REVIEWED BY DES

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DAVID E. SMITH
LICENSE No 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE
UTILITY PLAN
(2 OF 2)

SHEET NUMBER
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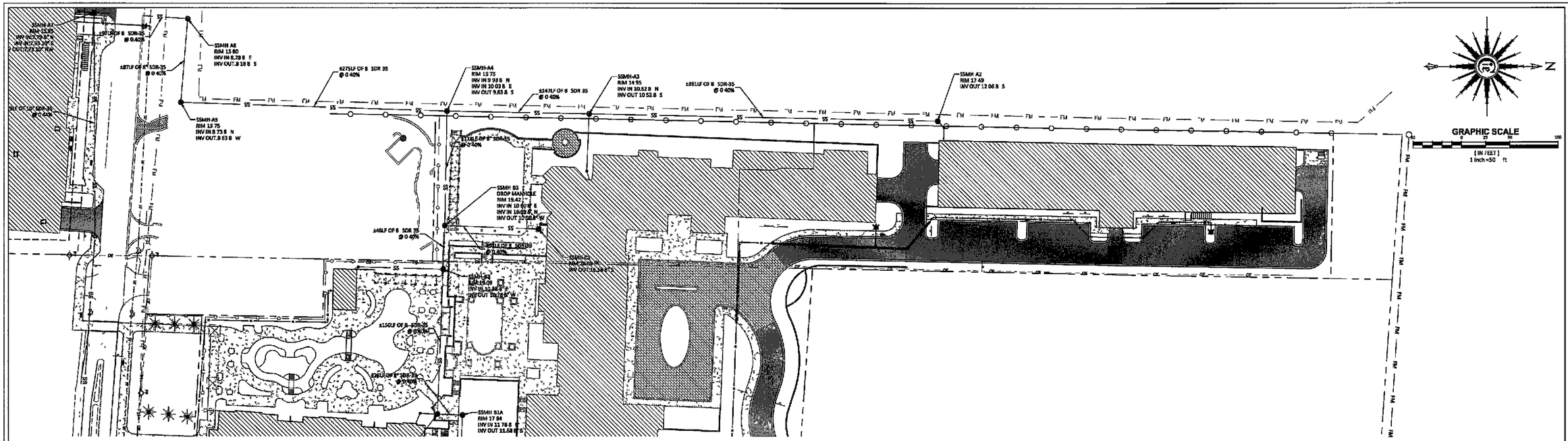

SSMH - SSMH A1A

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SANITARY SEWER PROFILE (1 OF 2)

SHEET NUMBER
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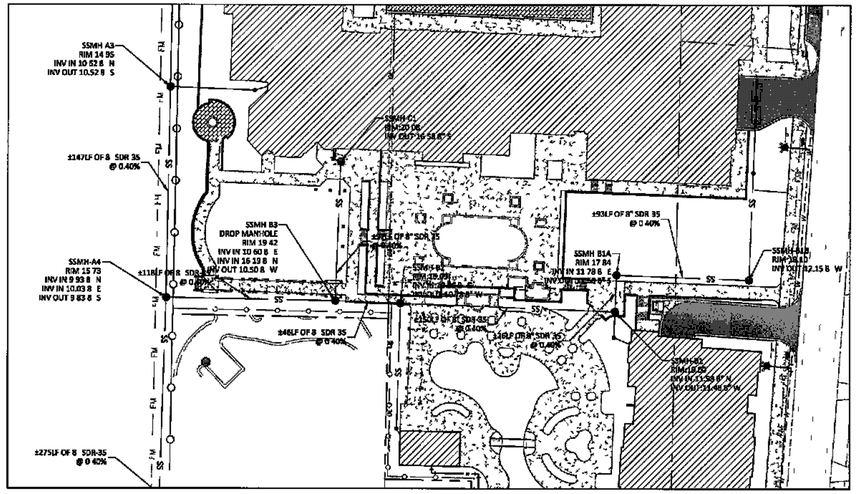
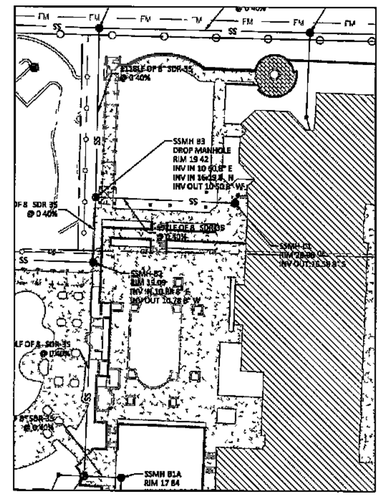
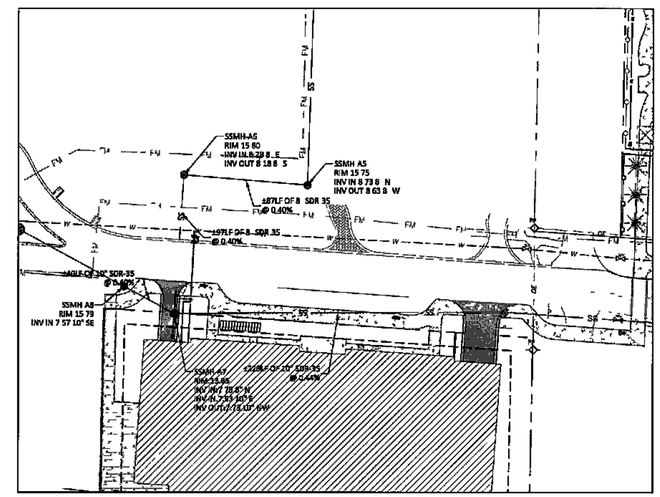
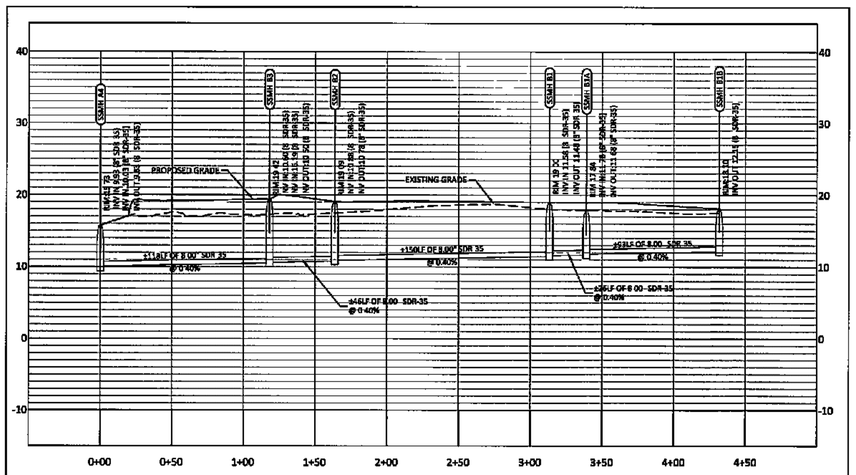
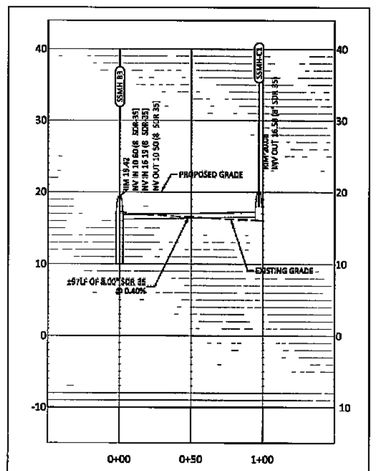








SSMH A4 - SSMH B1



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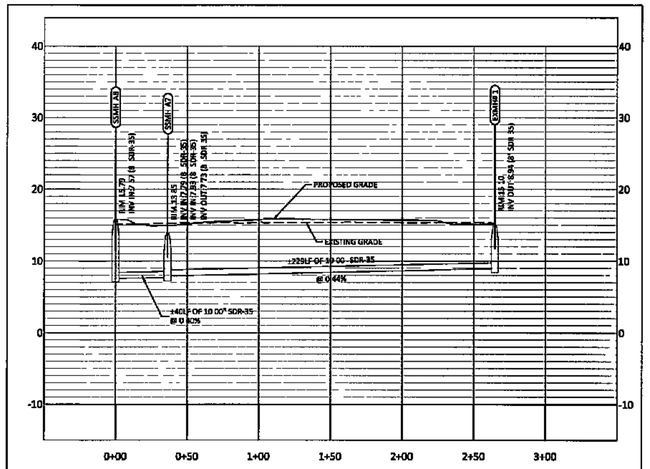

SSMH EX1 - SSMH A8

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DAVID E. SMITH
LICENSE No. 50921
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INNERLIGHT ENGINEERING CORP
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PENSACOLA, FL 32505
P 850 332 4370

SHEET TITLE
SANITARY SEWER PROFILE (2 OF 2)

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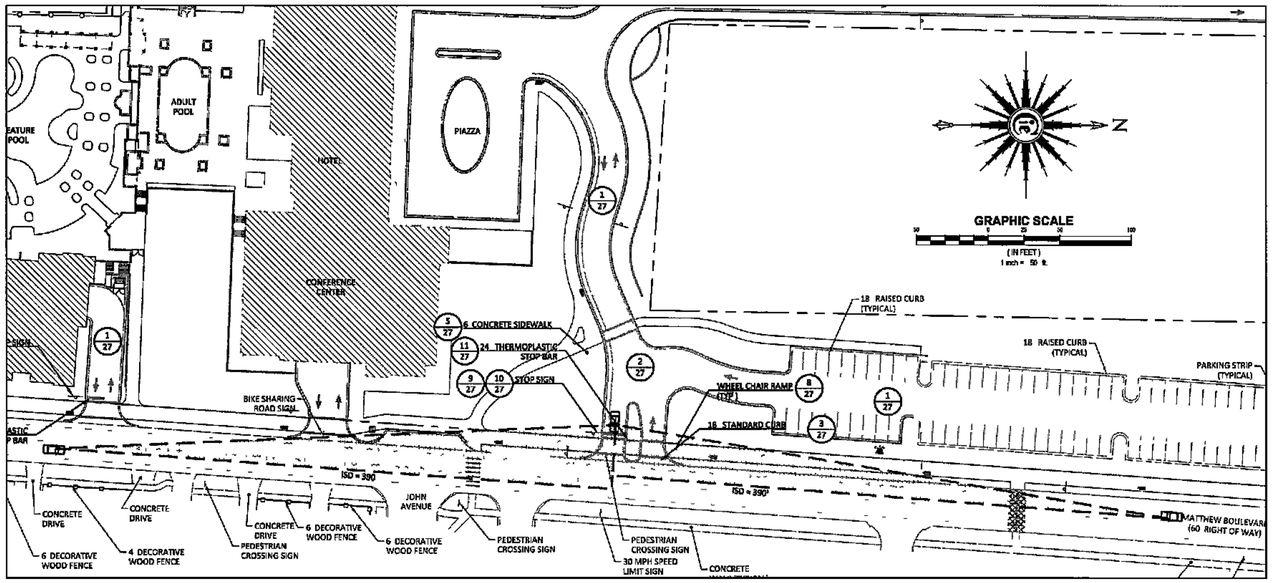
HORIZONTAL SIGHT DISTANCE PLAN
MATTHEW BOULEVARD - 60' R/W (DESIGN SPEED OF 35 MPH)



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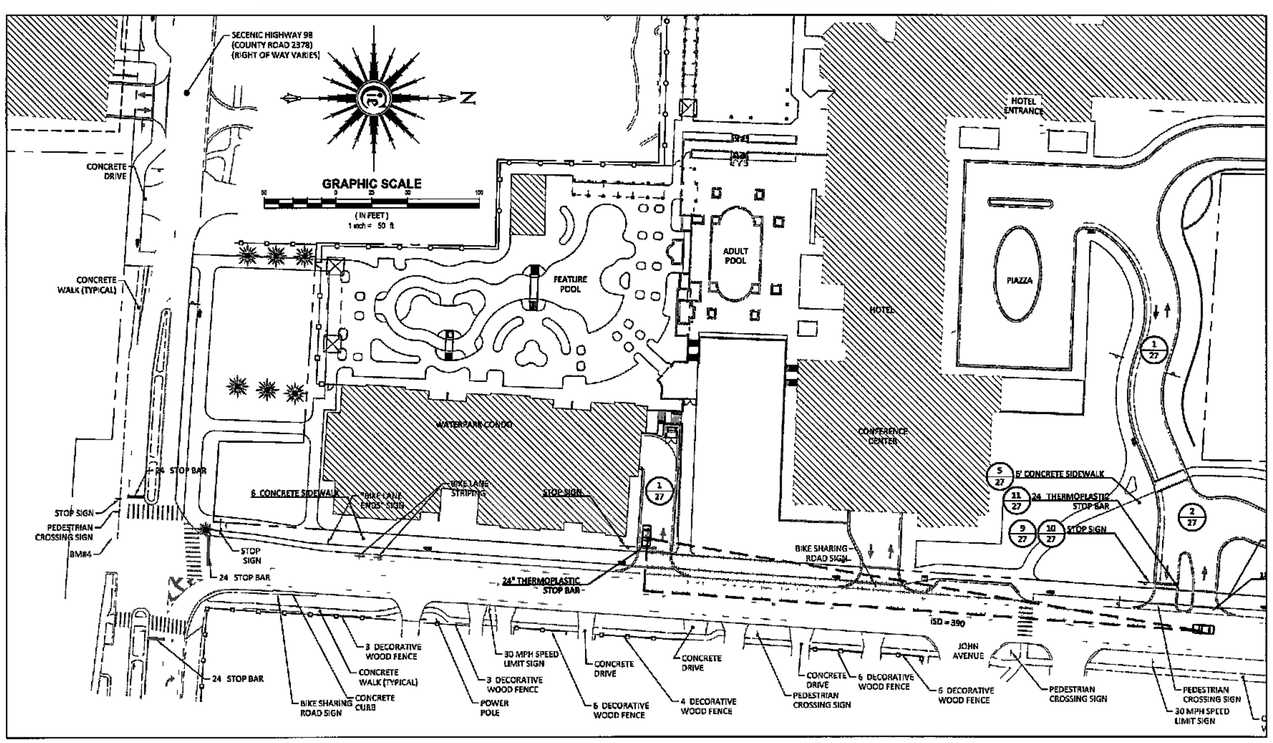
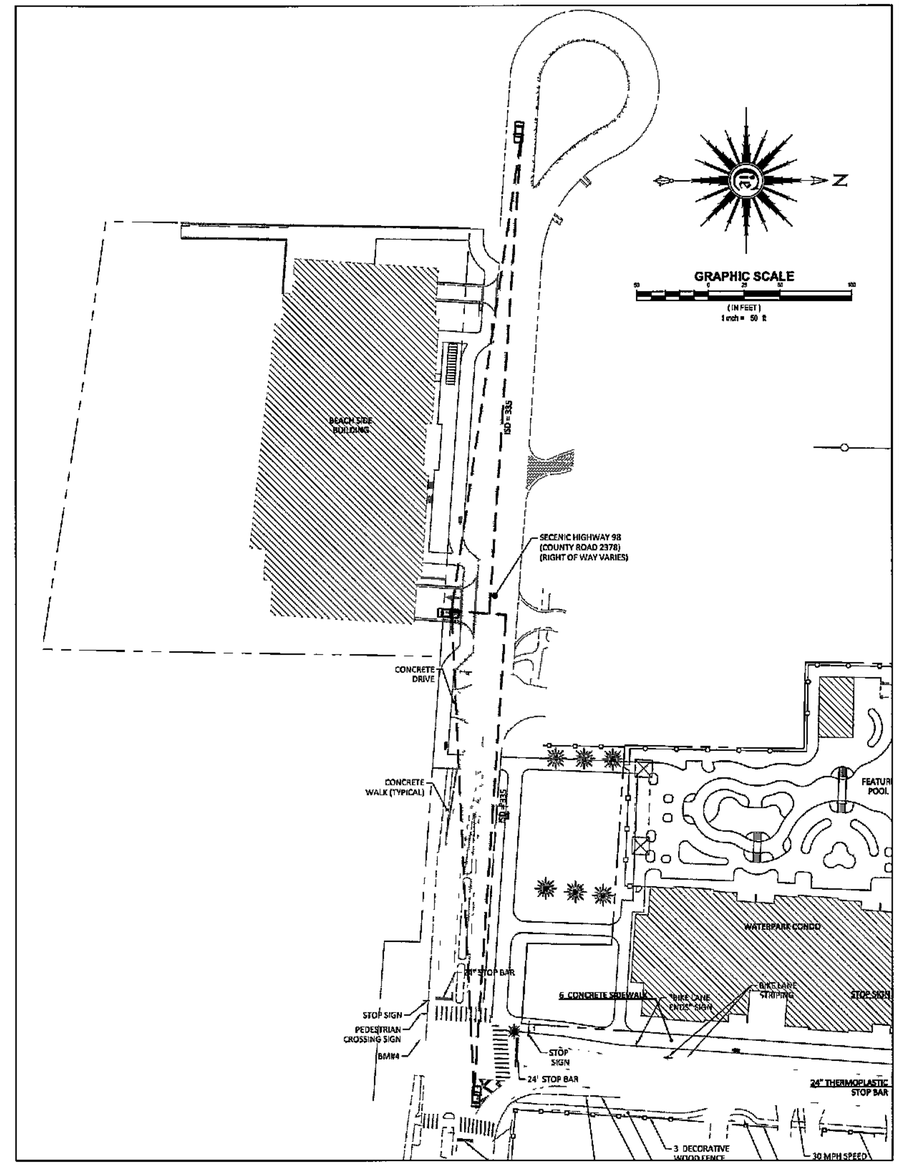
MATTHEW BOULEVARD - 60' R/W (DESIGN SPEED OF 35 MPH)



HORIZONTAL SIGHT DISTANCE PLAN
SCENIC HIGHWAY 98 - R/W VARIES (DESIGN SPEED OF 25 MPH)



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SHEET TITLE
SIGHT DISTANCE AND TURN LANE SECTIONS

SHEET NUMBER
25 OF 36

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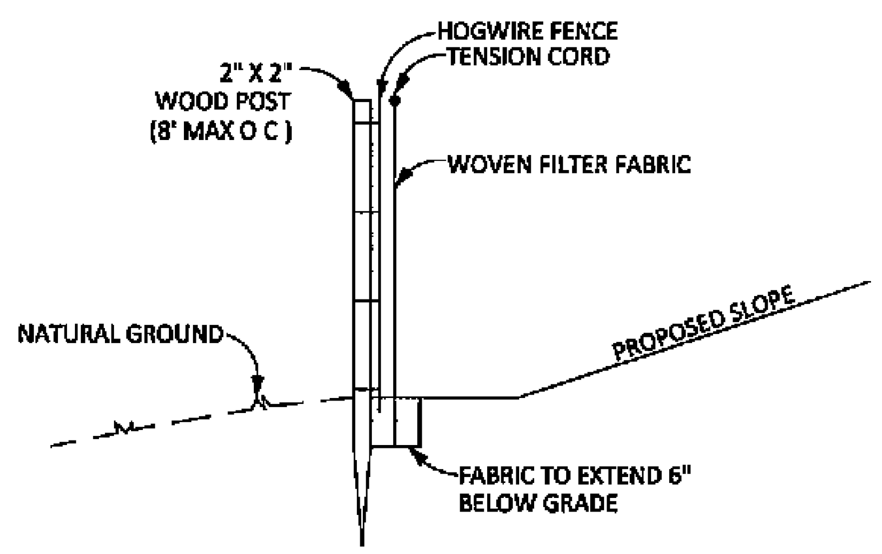
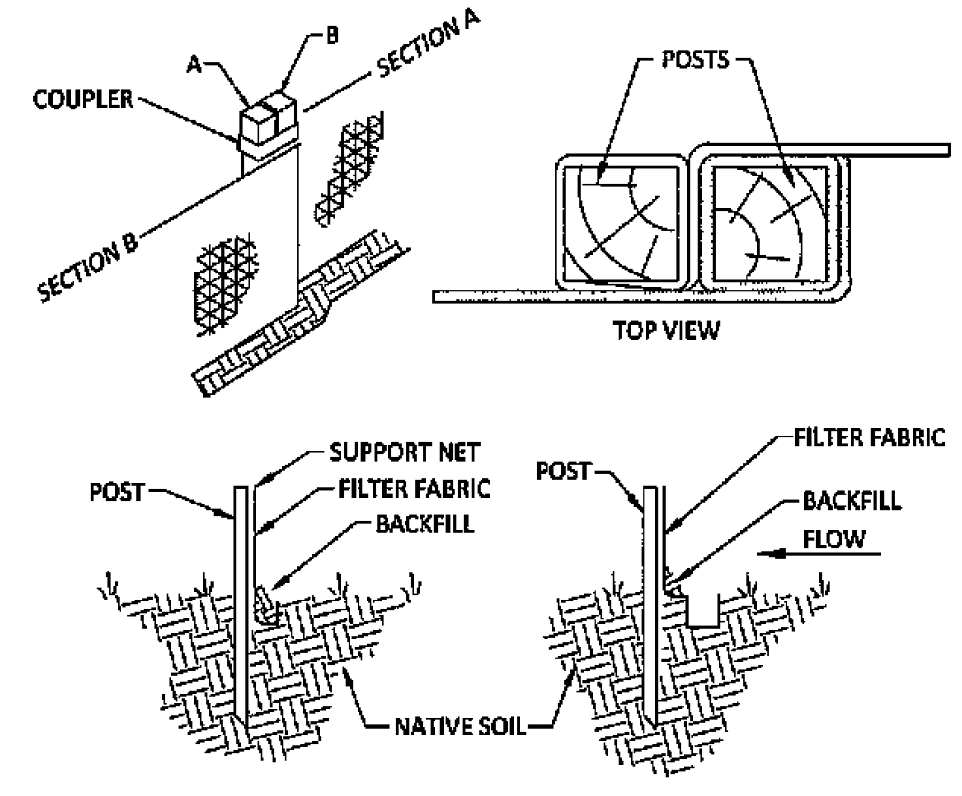
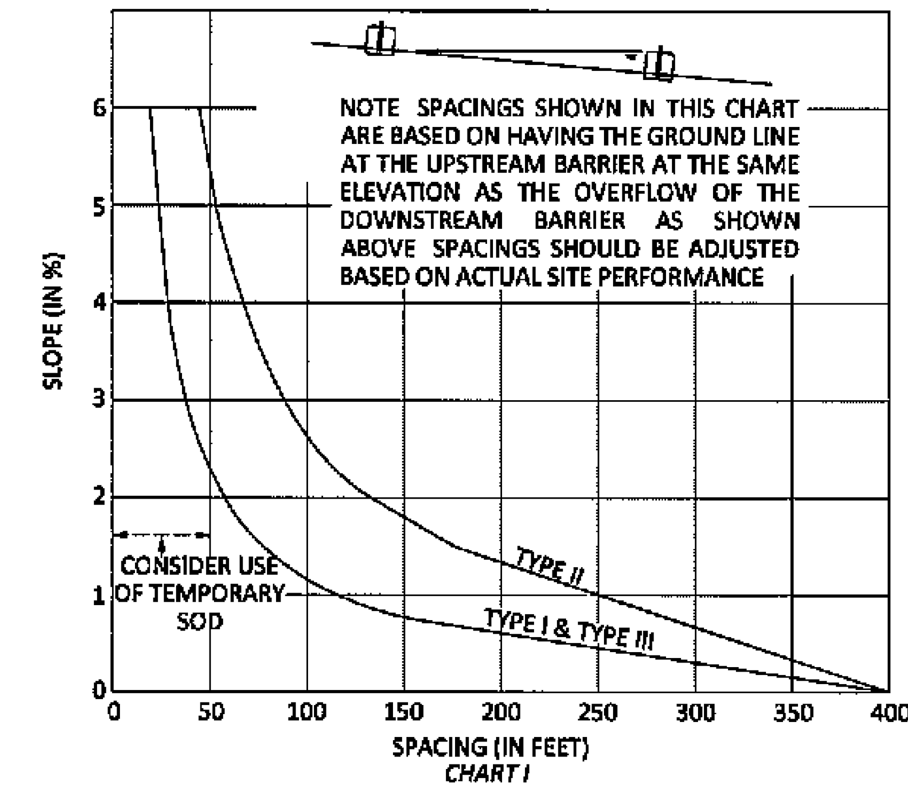
- DIG A 6" X 6" TRENCH AT DESIRED FENCE LOCATION
- UNROLL SILT FENCE ALONG TRENCH (SILT LOK, ENVIROFENCE, OR ENGINEER-APPROVED EQUAL)
- DRIVE STAKE IN TO THE DOWNHILL SIDE OF TRENCH W/ FILTER FABRIC FACING UPHILL SIDE
- STAPLE HOGWIRE TO POSTS, EXTENDING FROM TOP OF POSTS TO BOTTOM OF TRENCH
- LAY THE BOTTOM 6" OF FABRIC IN TO THE TRENCH AND FILL W/ SOIL FOR PROPER TOE-IN
- DRAW TENSION CORD AT TOP OF FENCE



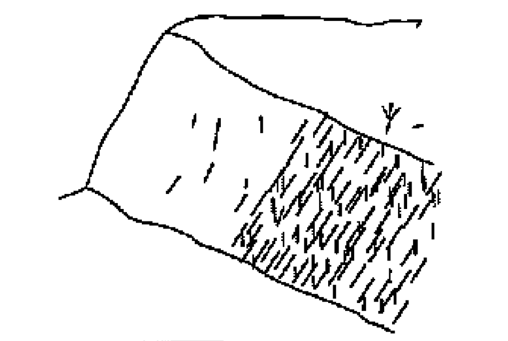
STANDARD SILT FENCE
Sd1 SEDIMENTATION & EROSION CONTROL
NTS



SEDIMENT BARRIER
Sd1 SILT FENCE DETAIL
NTS



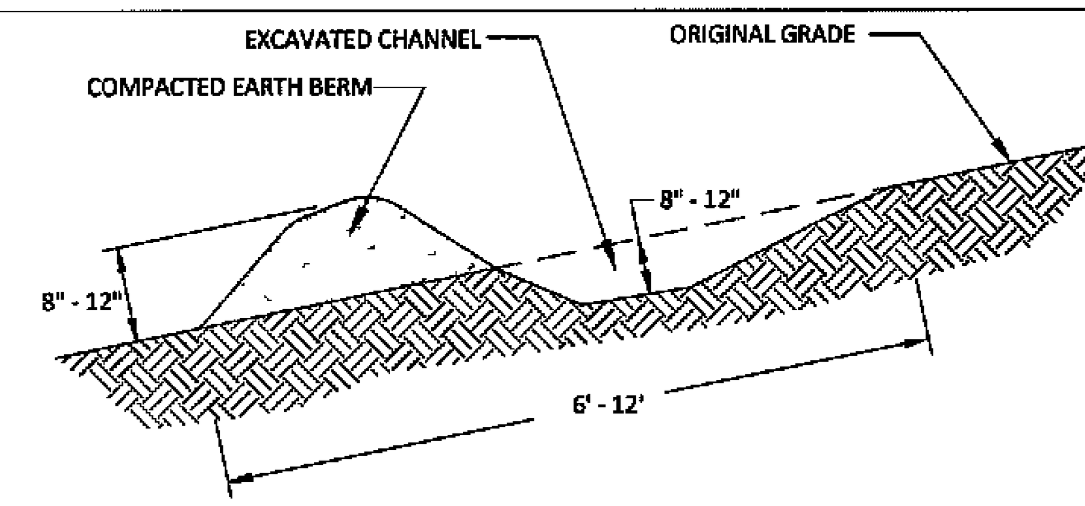
RECOMMENDED SPACING FOR BALED HAY BARRIERS AND TYPE III SILT FENCE
NTS



MATERIAL	RATE
STRAW OR HAY	2 - 1/2 TONS/ACRE
WOOD WASTE, CHIPS SAWDUST OR BARK	2" - 3" DEEP (ABOUT 6 TO 9 TONS/ACRE)
MATTING OR NETTING	ACCORDING TO MANUFACTURER'S RECOMMENDATIONS
CUTBACK ASPHALT	1200 GALLON/ACRE (1/2 GALLON/YD)
POLYETHYLENE FILM	COMPLETELY COVER AREA

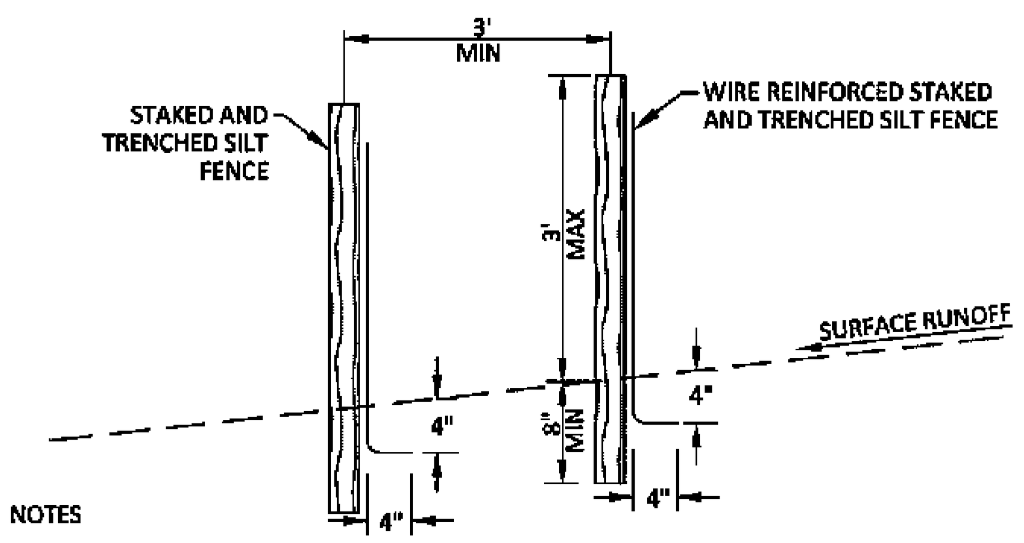
- ≤ 6 MONTHS OR WHEN SEEDING DOES NOT HAVE A SUITABLE GROWING SEASON
- A TEMPORARY COVER OVER BASE AREAS TO PREVENT EROSION AND REDUCE RUNOFF
- MAY BE NECESSARY TO ANCHOR

DISTURBED AREA STABILIZATION
Ds1 (WITH MULCHING ONLY)
NTS



NOTE
THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW

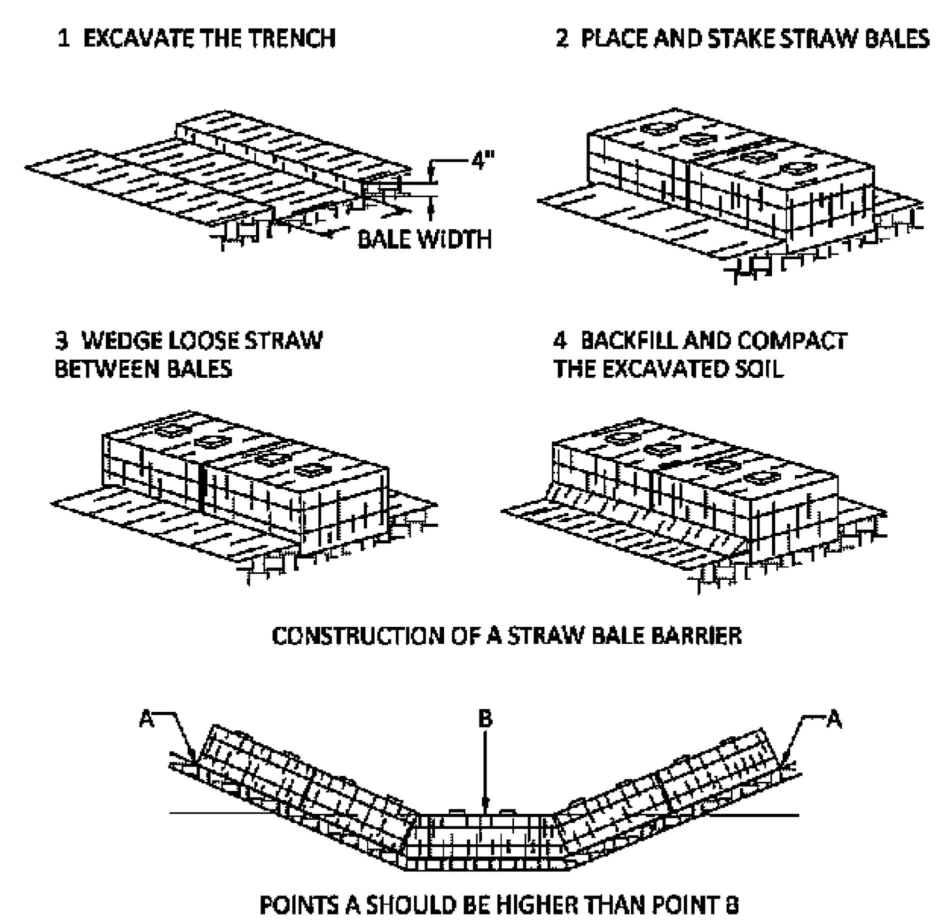
DI DIVERSION SWALE
NTS



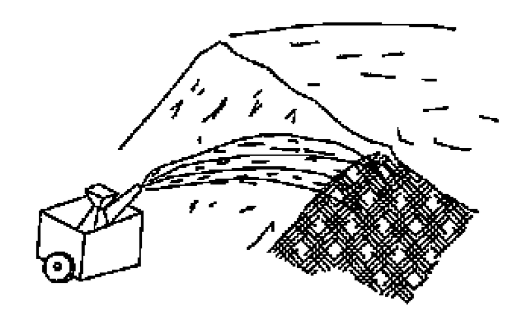
NOTES

1. POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET
2. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER
3. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE
4. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE

Sd1 DOUBLE ROW STAKED SILT FENCE
NTS

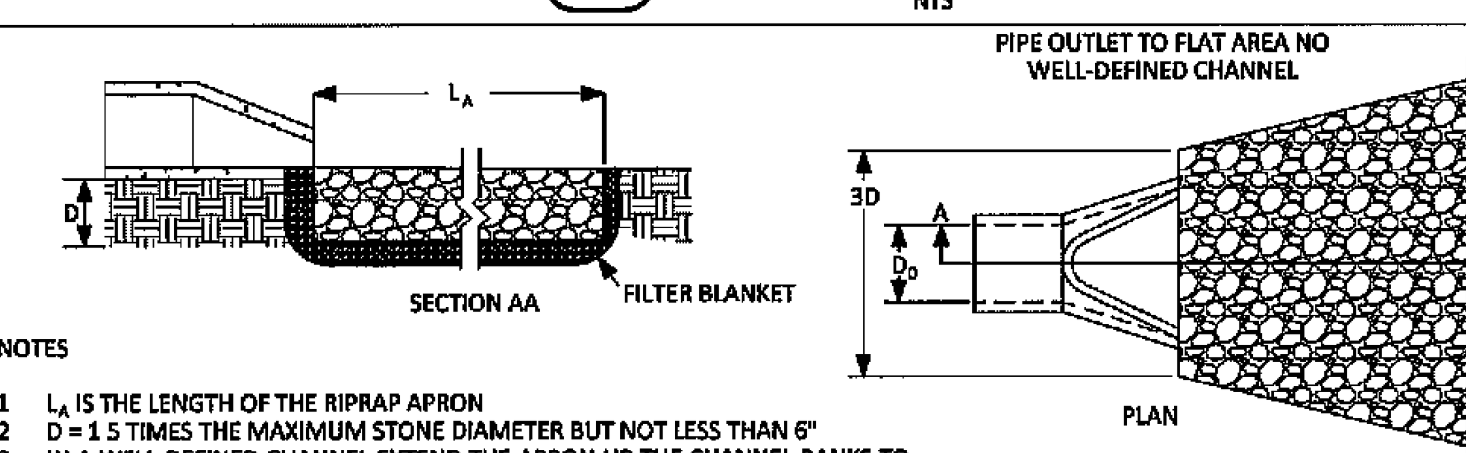


PROPER PLACEMENT OF STRAW BALE
Cd-Hb BARRIER IN DRAINAGE WAY
NTS



- ≤ 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION
- SITE PREPARATION
  - GRADING AND SHAPING
  - SEEDBED PREPARATION
  - APPLY LIME AND FERTILIZER
  - PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
  - APPLY MULCHING MATERIAL IF NEEDED
  - IRRIGATE IF NEEDED BUT NOT AT A RATE TO CAUSE EROSION
- PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT, OR COASTAL)

DISTURBED AREA STABILIZATION
Ds2 (WITH TEMPORARY SEEDINGS)
NTS



NOTES

1. L_A IS THE LENGTH OF THE RIPRAP APRON
2. D = 1 5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6"
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION

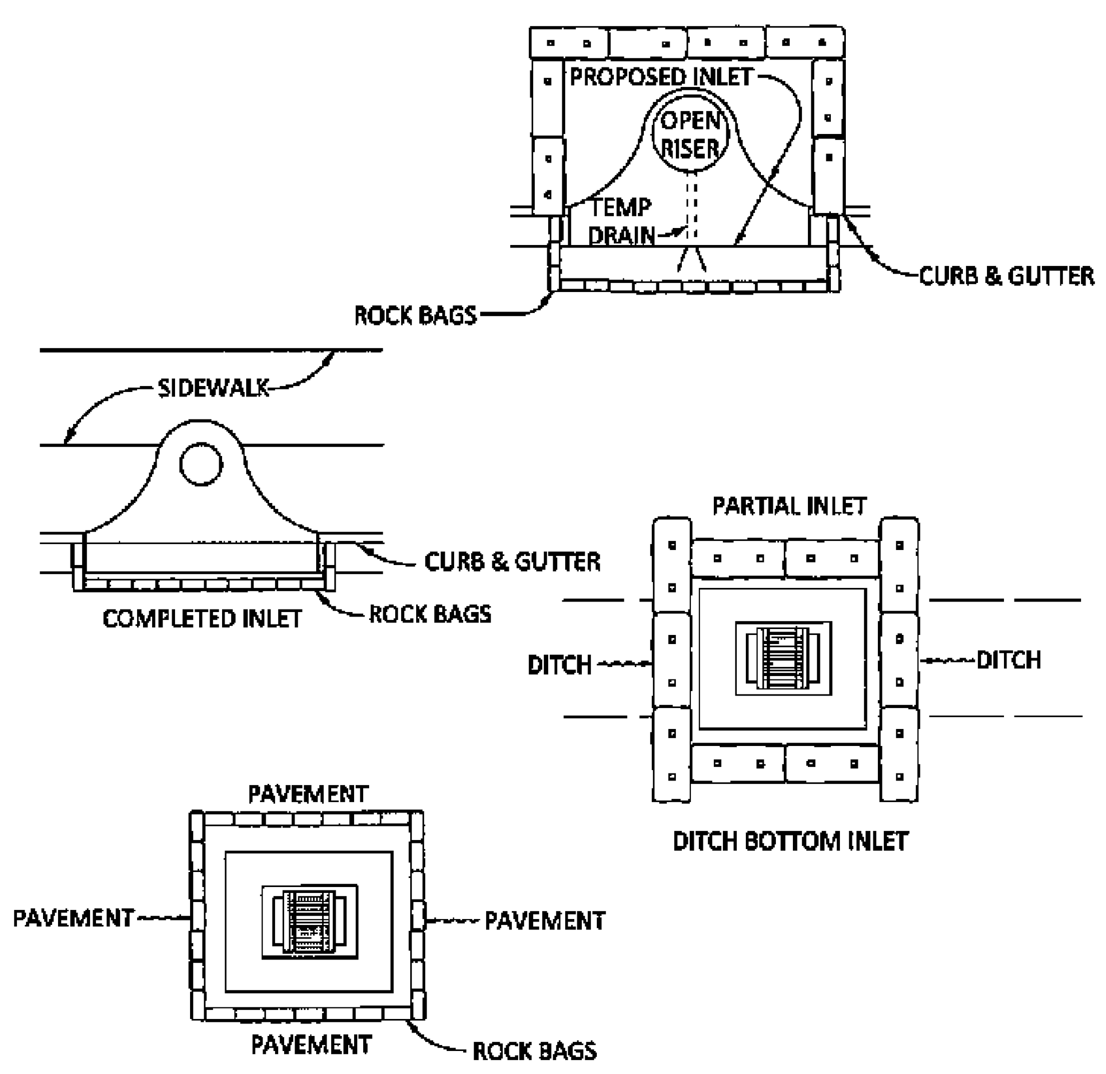
STONE OUTLET PROTECTION DETAIL
NTS

SPECIES	RATE PER 1,000 SF	RATE PER[1] ACRE	PLANTING DATES[2] MTS-L'STONE	PIEDMONT	COASTAL
RYE	3 POUNDS	2-3 BU	8/1 - 12/1 3/1 - 4/1	9/1 - 1/1 3/1 - 4/1	10/1 - 3/1
RYEGRASS	1 POUND	40-50 LBS	8/1 - 12/1	8/15 - 1/1	8/15 - 3/1
RYE AND ANNUAL LESPEDEZA	1-1/2 POUNDS 1/2 POUND	1-1-1/2 BU 20-25 LBS	3/1 - 4/1 3/1 - 4/1	3/1 - 4/1 3/1 - 4/1	2/1 - 3/1 2/1 - 3/1
WEEPING LOVEGRASS	0 2 POUNDS	4 6 LBS	3/15 - 8/1	3/1 - 8/15	2/15 - 8/15
SUDANGRASS	1 POUND	35-45 LBS	4/1 - 8/1	4/1 - 7/15	4/1 - 7/15
BROWNTOP MILLET	1 POUND	30-40 LBS	4/1 - 7/1	4/1 - 7/15	4/1 - 7/15
WHEAT	3 POUNDS	2-3 BU	10/1 - 12/1	10/15 - 1/1	11/1 - 1/15

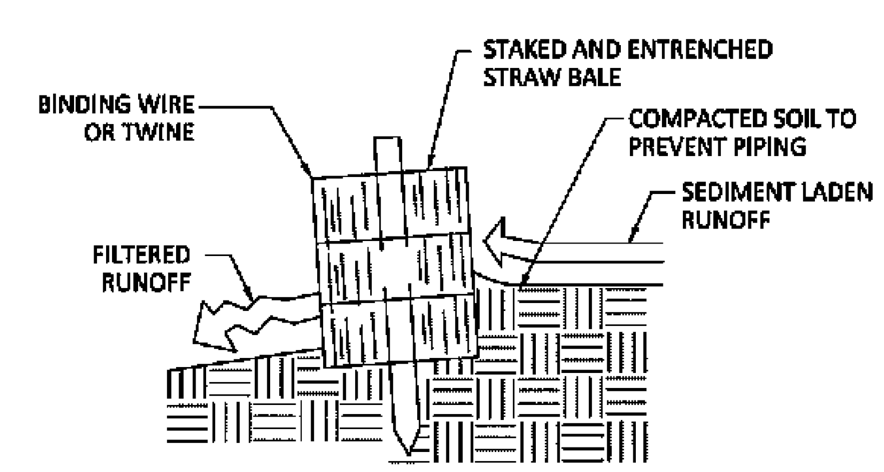
REFERENCE, DISTURBED AREA STABILIZATION (WITH MULCHING ONLY), PAGE 71

[1] UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES
[2] SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS

Ds2 SEEDING RATES FOR TEMPORARY SEEDINGS
NTS



Sd2 PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
NTS

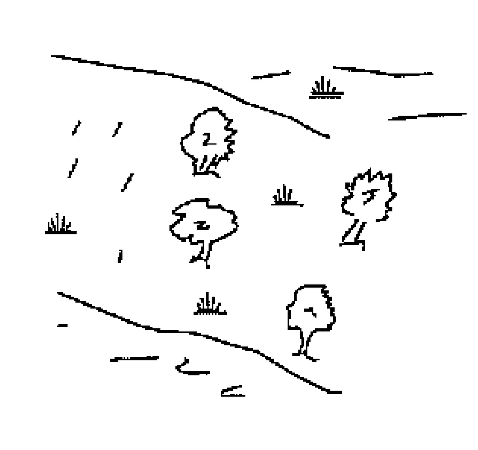


CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE
Cd-Hb
NTS

NOTE HAY BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2 -1" x 2" (OR 1" DIA) x 4' WOOD STAKES STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT SEE FDOT INDEX NO 102 FOR ADDITIONAL INFORMATION

COMPOST FILTER SOCKS MAY BE USED IN LIEU OF ROCK BAGS PROVIDED THEY MEET THE FOLLOWING SPECIFICATIONS
1) MUST BE ANCHORED AT 3 FT INTERVALS BY CINDER BLOCKS
2) PARTICLE GRADATION 99% PASSING 2IN SIEVE, 40% PASSING 3/8" SIEVE
3) MATERIAL < 1% DRY UNIT WEIGHT OF INERT FOREIGN MAN-MADE MATERIALS
4) FILTREXX SILT SOXX OR EQUIVALENT SHALL BE USED

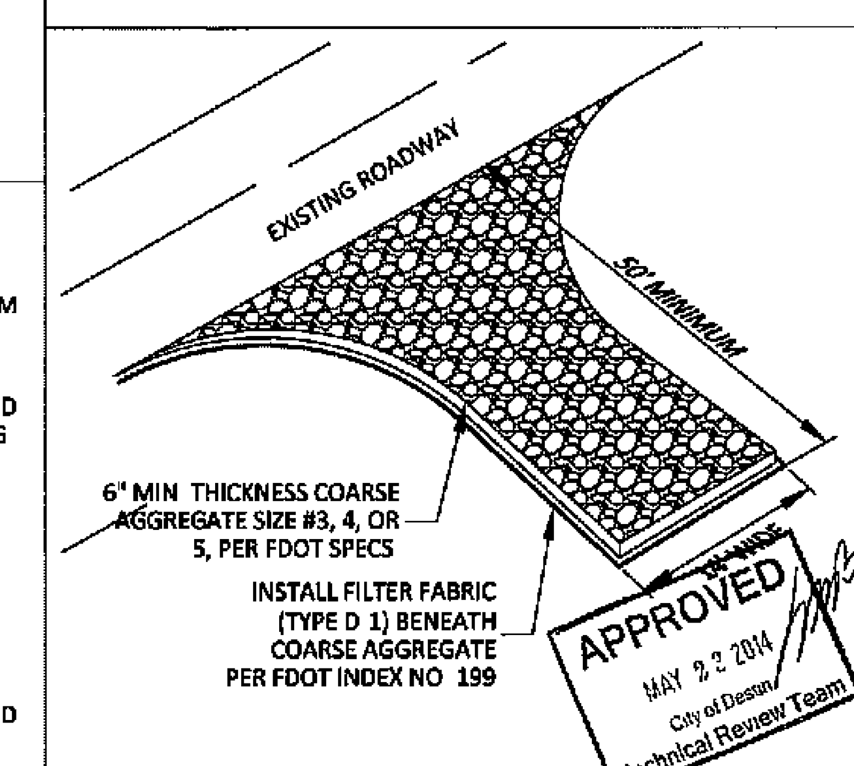
ESTABLISHING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA



- HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE
- MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROAD BANKS
- ANCHOR MULCH IMMEDIATELY
- APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIME CALLED "CRITICAL AREAS" INCLUDING
  - CUT OR FILL SLOPES
  - EARTH SPILLWAYS
  - BORROW AREAS
  - CHANNEL BANKS
  - BERMS
  - ROAD SIDES
  - SPOIL AREAS
  - GULLIED LANDS
- GRADING AND SHAPING REQUIRED WHERE FEASIBLE AND PRACTICAL
- SEED BED PREPARATION
  - NOT REQUIRED IF USING HYDRAULIC SEEDING AND FERTILIZING WHEN REQUIRED

SLOPE	SEEDED
3 1 OR FLATTER	≥ 4" DEEP
2 1 TO 3 1	1" TO 4" DEEP DEPRESSION
2 1 OR STEEPER	EVERY 6" 8" WITH HAND TOOL

DISTURBED AREA STABILIZATION
Ds3 (WITH PERMANENT VEGETATION)
NTS



- THE ROAD CONSTRUCTION ACCESS SHALL BE STABILIZED USING 6" MINIMUM THICKNESS OF COARSE AGGREGATE TO REDUCE EROSION CAUSED BY CONSTRUCTION TRAFFIC, AND TO MINIMIZE TRANSPORT OF SEDIMENT ONTO THE EXISTING PAVED ROADWAY
- AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF UTILITY CONSTRUCTION WITHIN THE RIGHT OF WAY
- NON SURFACED TEMPORARY CONSTRUCTION DRIVEWAY ENTRANCES, ACCESS ROADS AND PARKING AREAS USED BY CONSTRUCTION TRAFFIC SHALL BE STABILIZED TO MINIMIZE EROSION CONTROL AND PREVENT TRACKING MUD OR SOIL FROM THE SITE
- STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE INSTALLED AS THE FIRST STEP OF CLEARING AND GRADING
- CONSTRUCTION ENTRANCE(S) SHALL BE SET UP SO THAT ALL TRAFFIC LEAVING JOB SITE IS REQUIRED TO TRAVEL THE ENTIRE LENGTH OF ENTRANCE
- CONSTRUCTION ENTRANCE(S) SHALL BE STABILIZED WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND TRAVELING ON PAVED ROADS OR OTHER PAVED AREAS WITHIN THE SITE THAT IS OPEN TO THE PUBLIC

APPROVED MAY 22 2014 City of Destin Technical Review Team

TEMPORARY GRAVEL CONSTRUCTION
Co ENTRANCE/EXIT DETAIL
NTS

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SHEET TITLE
EROSION CONTROL DETAILS

SHEET NUMBER
26 OF 36

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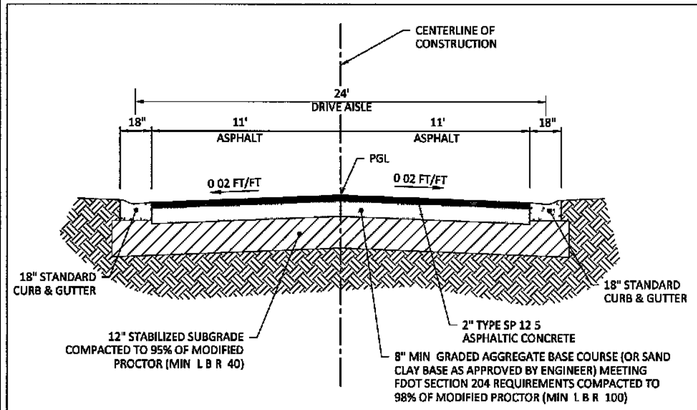
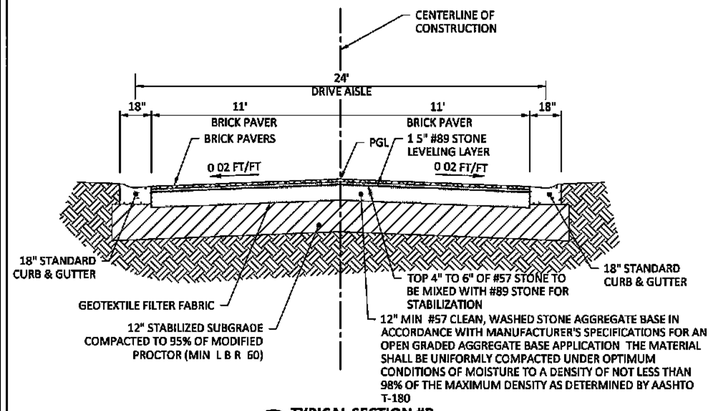
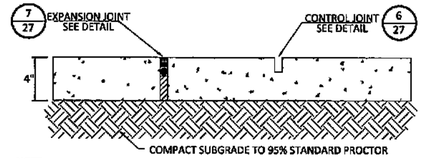


1/27 **TYPICAL SECTION #B**
NTS

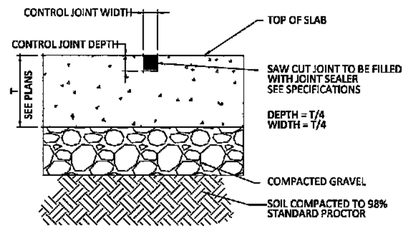


2/27 **TYPICAL SECTION #B**
NTS



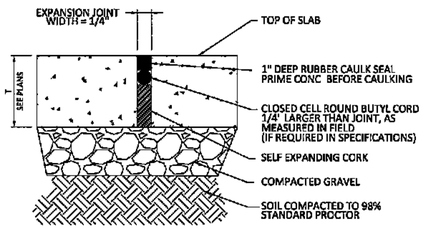
NOTE
EXPANSION JOINTS REQUIRED AT ALL STRUCTURES (I E WALLS, CURB, ETC), MAX SPACING TO BE 25 FT CONTROL JOINTS TO BE SPACED EVERY 6 FT (SCORE WITHIN 12 HOURS OF POUR) 3000P S I CONCRETE, 2 INCH SLUMP, WITH BROOM FINISH

5/27 **CONCRETE SIDEWALK DETAIL**
NTS



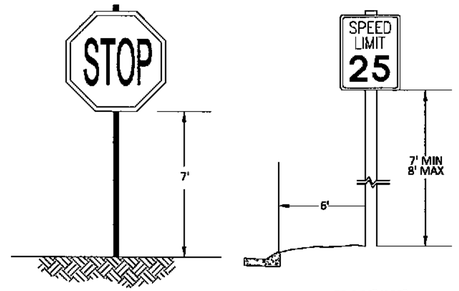
TO BE INSTALLED AT MAXIMUM 15 FT SPACING

6/27 **CONTROL JOINT DETAIL**
NTS



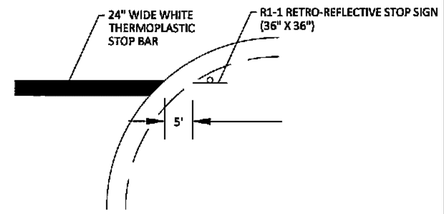
INSTALL WHERE PAVEMENT MEETS DOCK, WALLS, & MANHOLES TO BE INSTALLED AT MAXIMUM 40 FT SPACING

7/27 **EXPANSION JOINT DETAIL**
NTS

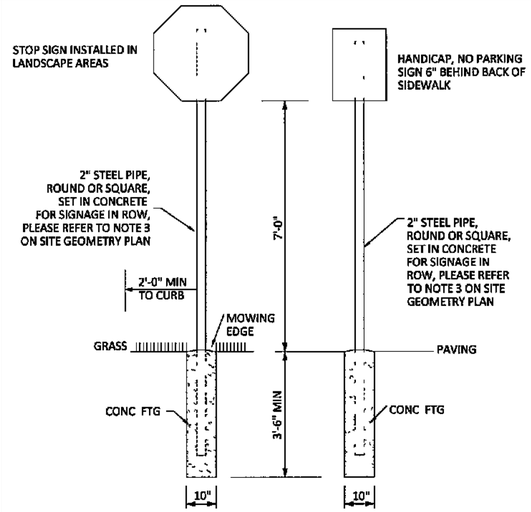


R1-1 36" X 36"
NTS

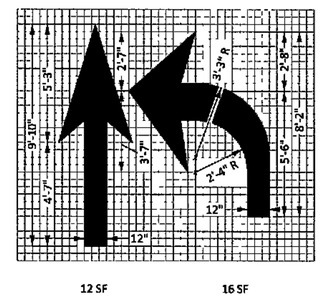
R2-1 24" X 30"
NTS



9/27 **SIGN PLACEMENT DETAIL**
NTS



10/27 **TRAFFIC SIGNAGE DETAIL**
NTS

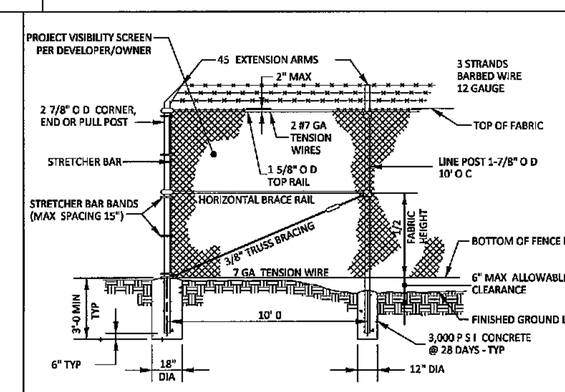


12 SF 16 SF

RIGHT TURN ARROW TO BE REVERSED
DIMENSIONS ARE WITHIN 1" ±

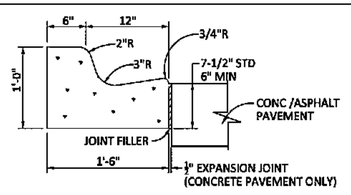
NOTE
WHEN ARROW AND PAVEMENT MESSAGE ARE USED TOGETHER, THE ARROW SHALL BE LOCATED DOWN STREAM OF THE PAVEMENT MESSAGE AND SHALL BE SEPARATED FROM THE PAVEMENT MESSAGE BY A DISTANCE OF 25' (BASE OF THE ARROW TO BASE OF THE MESSAGE)

11/27 **PAVEMENT ARROW & MESSAGE DETAIL**
NTS



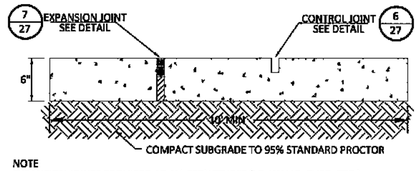
12/27 **CHAIN-LINK FENCE***
NTS

* PROJECT VISIBILITY SCREEN PER DEVELOPER/OWNER



WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" MIN , UNLESS OTHERWISE SHOWN ON PLANS EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB AND CONCRETE PAVEMENT OR CONCRETE STRUCTURES

3/27 **18" STANDARD CURB & GUTTER**
NTS



NOTE
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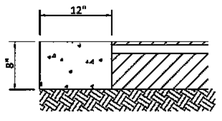
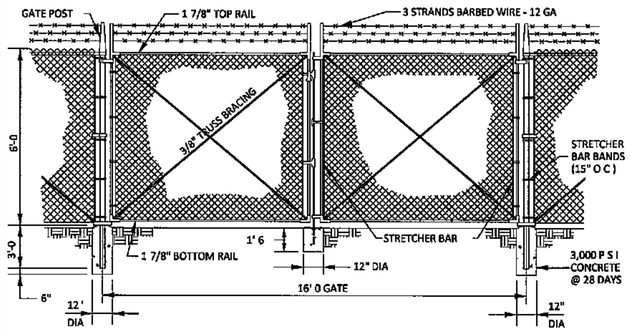
8/27 **CONCRETE MULTI-USE TRAIL (MUT) DETAIL**
NOT TO SCALE

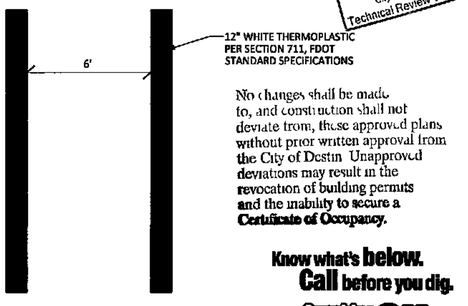


RIBBON CURBING SHALL INCORPORATE 1/2" EXPANSION JOINTS SPACED AND FORMED IN 20 FT SECTIONS OR LESS CURBING SHALL BE SEALED WITH JOINT SEALER BETWEEN CURB AND CONCRETE PAVEMENT

4/27 **RIBBON CURB**
NTS



13/27 **CHAIN-LINK DOUBLE GATE**
NTS



14/27 **CROSS WALK STRIPING**
NTS

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REV DATE 05 21 2014
PROJ NO 131 0 0 10
DRAWN BY MTM
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LICENSE No 50637
STATE OF FLORIDA
PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION
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5450 NORTH W STREET
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SHEET TITLE
CONSTRUCTION DETAILS (1 OF 2)

SHEET NUMBER
27 OF 36

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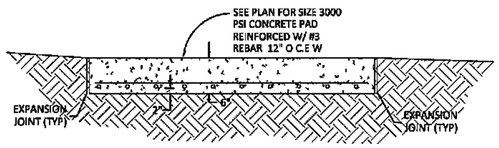
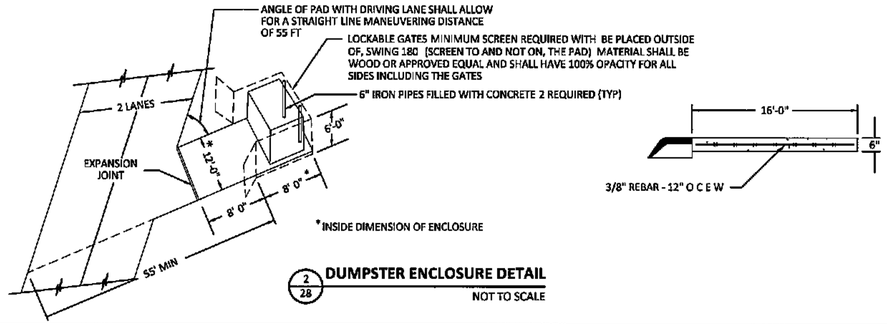
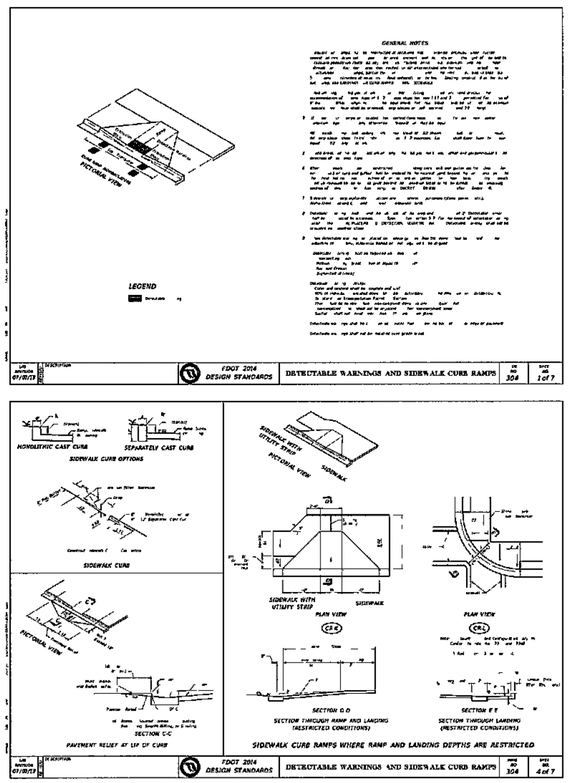


NOTE
ALL DUMPSTER PADS SHALL BE PROVIDED W/ OPAQUE SCREEN FENCE & GATE 6' IN HEIGHT

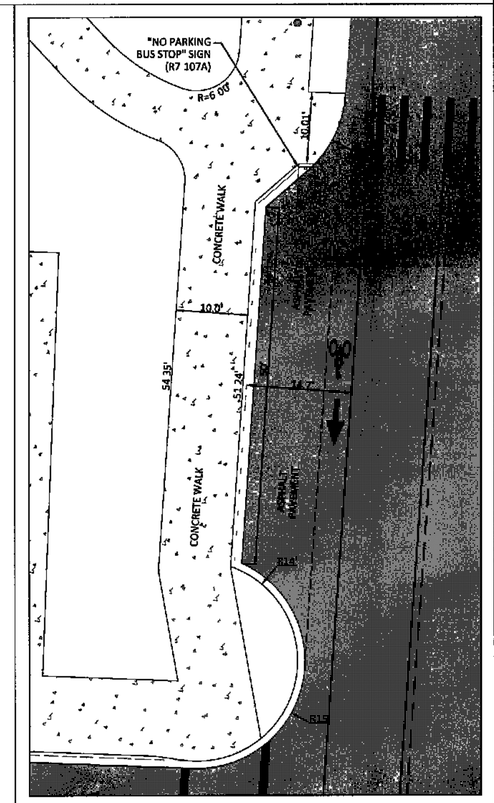
1/28 **DUMPSTER PAD DETAIL**
NOT TO SCALE



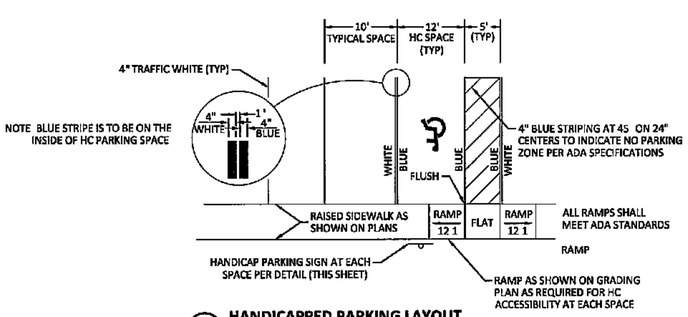
2/28 **DUMPSTER ENCLOSURE DETAIL**
NOT TO SCALE



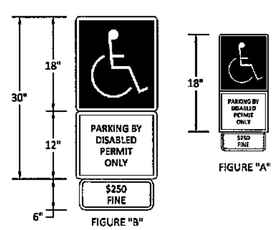
4/28 **DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS**
NOT TO SCALE



5/28 **BUS PULLOUT DETAIL**
1" 10'

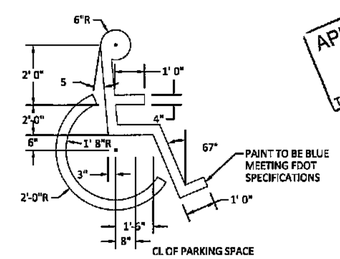


6/28 **HANDICAPPED PARKING LAYOUT**
NOT TO SCALE



- TOP PORTION OF FIGURE "A" AND "B" SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER
- BOTTOM PORTION OF FIGURE "A" AND "B" SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER
- FIGURE "A" AND "B" MAY BE FABRICATED ON ONE PANEL OR TWO
- FIGURE "A" MAY BE SUBSTITUTED FOR FIGURE "B" IN AREAS WHERE SPACE IS LIMITED
- SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT (7 FT FROM PAVEMENT TO BOTTOM OF SIGN)

7/28 **HANDICAPPED PARKING SIGNAGE**
NOT TO SCALE



8/28 **HANDICAPPED SYMBOL DETAIL**
NOT TO SCALE

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SHEET TITLE
CONSTRUCTION DETAILS (2 OF 2)

SHEET NUMBER
28 OF 36

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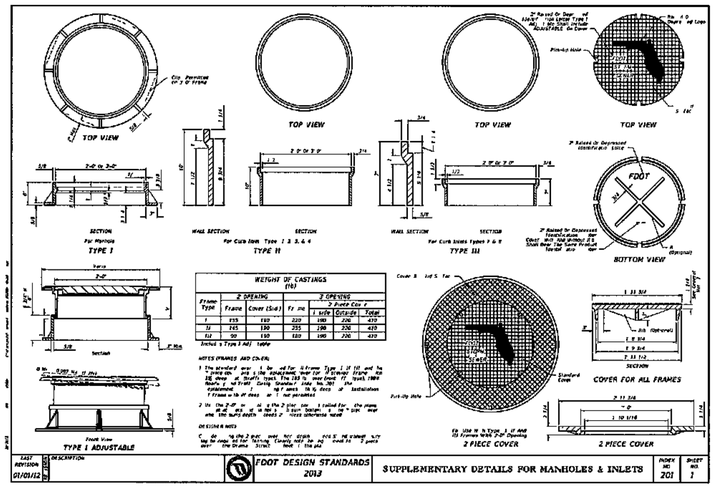
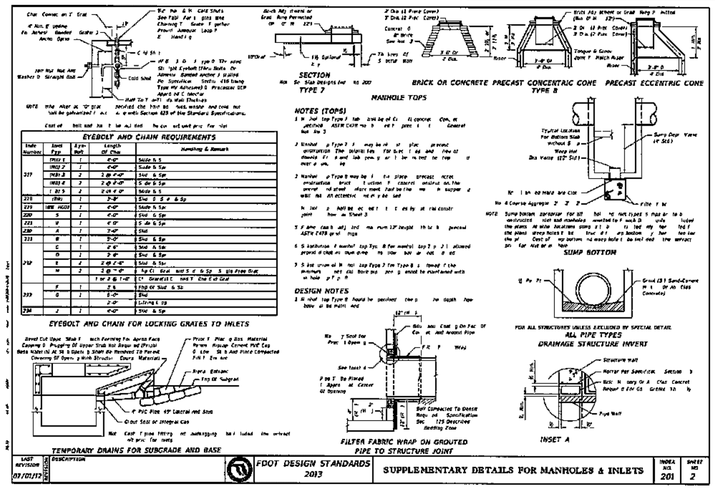
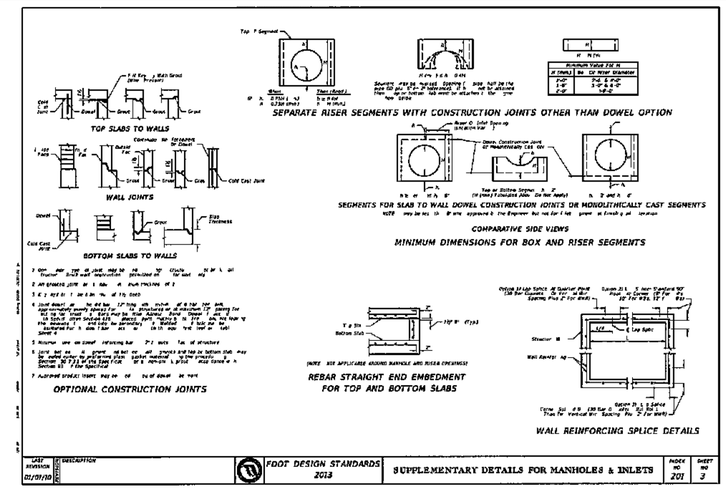


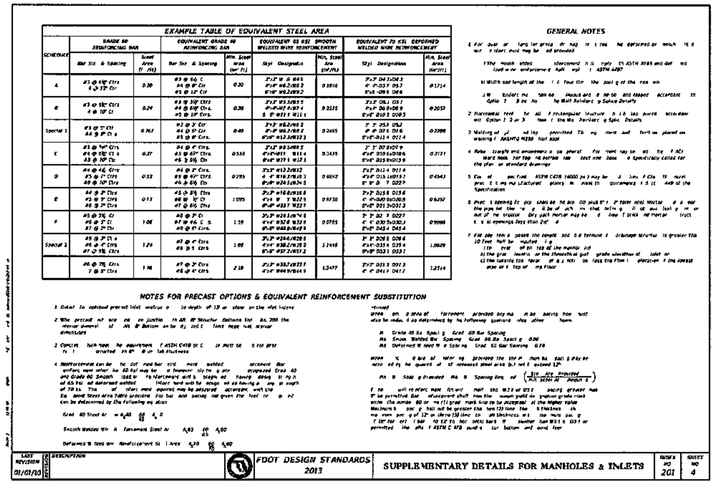
FDOT DESIGN STANDARDS 2013 | SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS | INDEX NO. 201 | SHEET NO. 1



FDOT DESIGN STANDARDS 2013 | SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS | INDEX NO. 201 | SHEET NO. 2



FDOT DESIGN STANDARDS 2013 | SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS | INDEX NO. 201 | SHEET NO. 3



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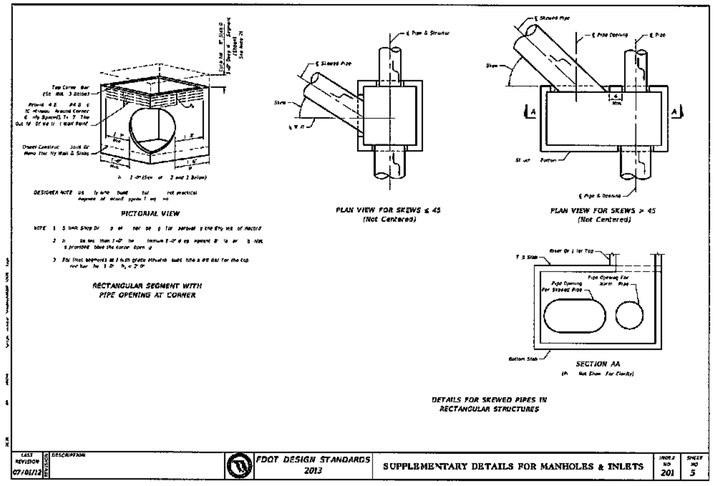
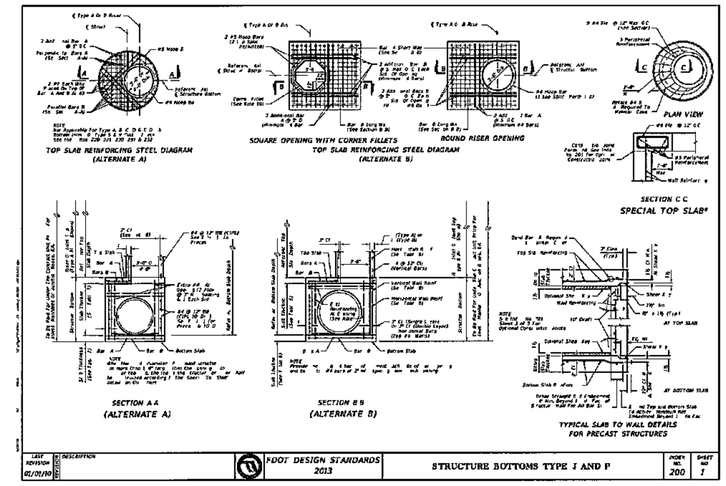
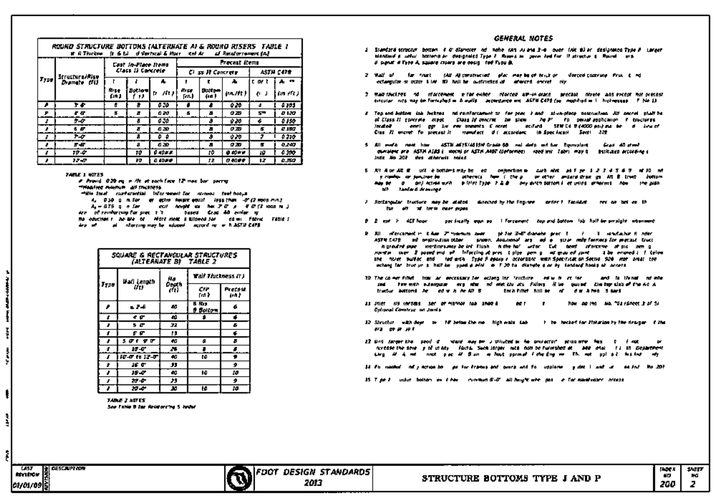


FDOT DESIGN STANDARDS 2013 | SUPPLEMENTARY DETAILS FOR MANHOLES & INLETS | INDEX NO. 201 | SHEET NO. 5



FDOT DESIGN STANDARDS 2013 | STRUCTURE BOTTOMS TYPE J AND P | INDEX NO. 200 | SHEET NO. 1



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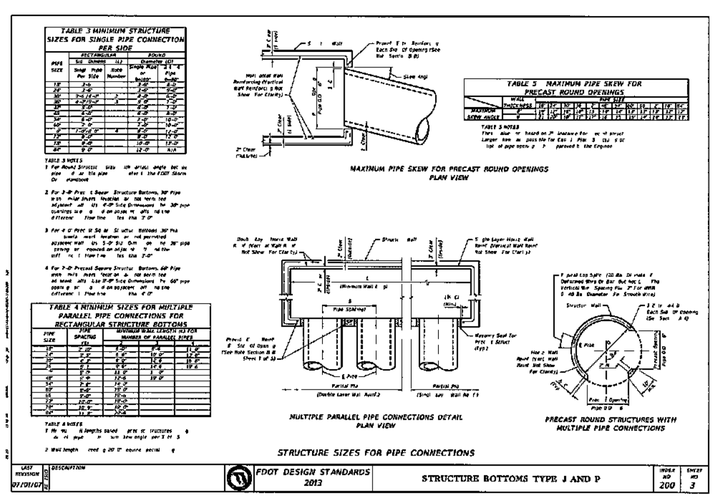
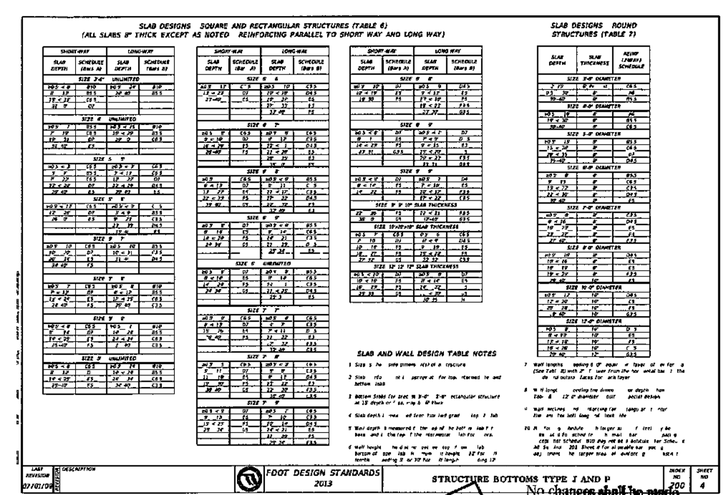


FDOT DESIGN STANDARDS 2013 | STRUCTURE BOTTOMS TYPE J AND P | INDEX NO. 200 | SHEET NO. 3



FDOT DESIGN STANDARDS 2013 | STRUCTURE BOTTOMS TYPE J AND P | INDEX NO. 200 | SHEET NO. 4

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SHEET TITLE
STORM DETAILS (1 OF 3)

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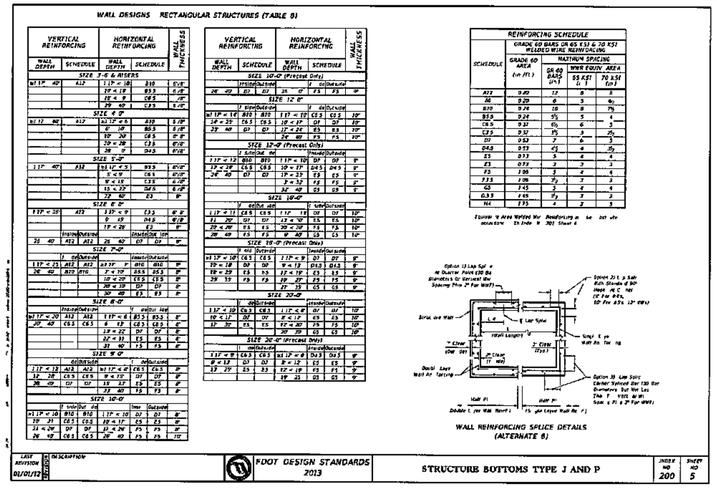

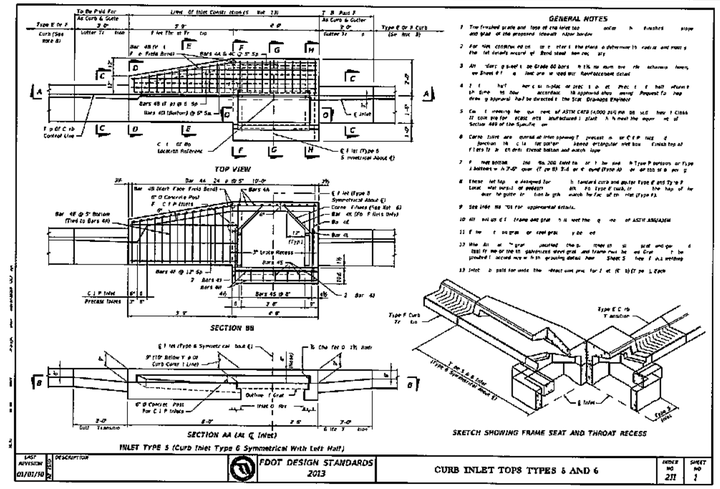

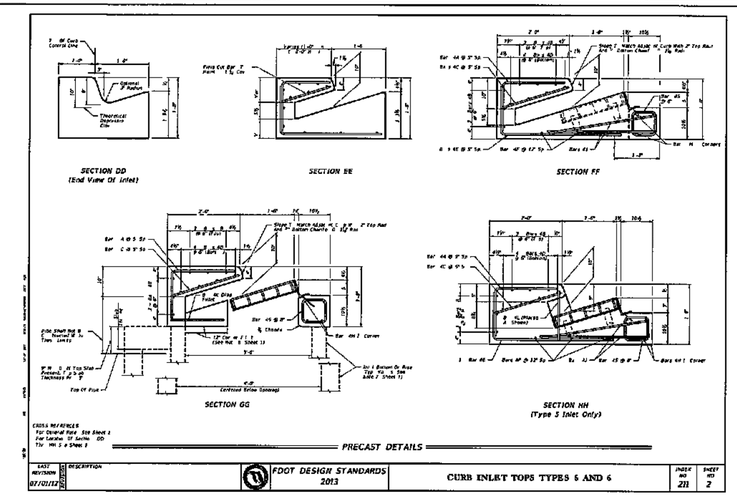

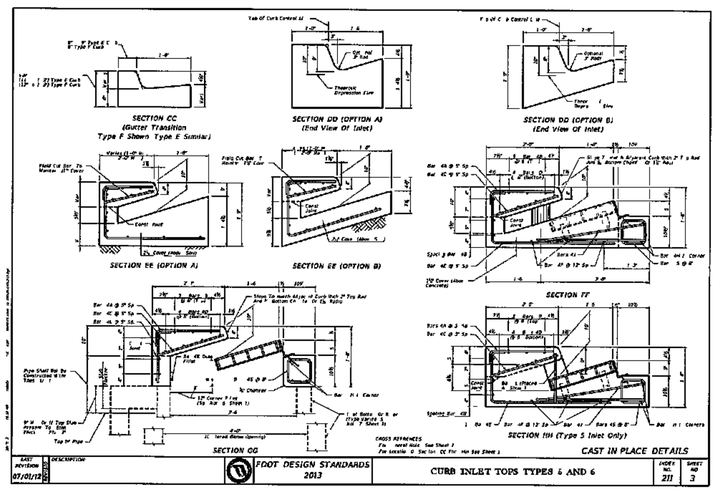

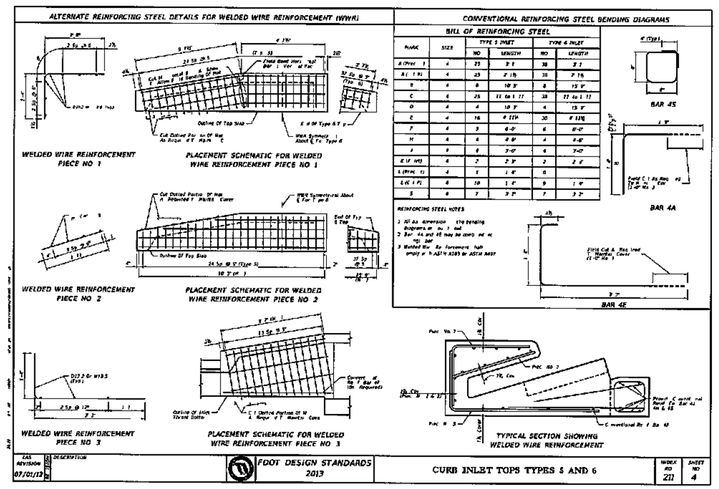

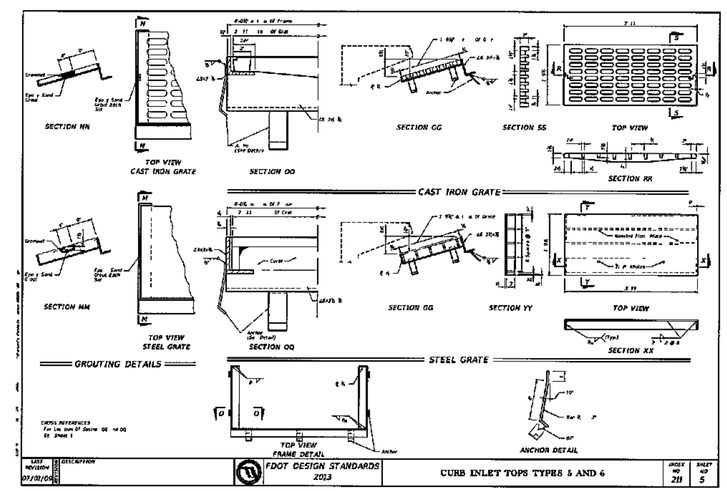

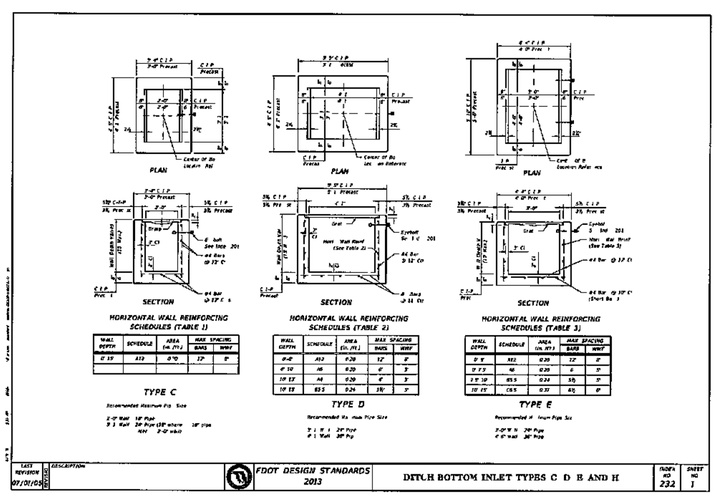

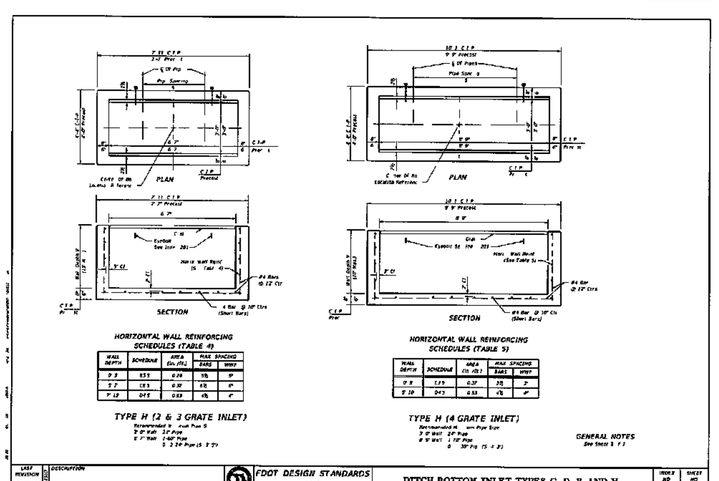

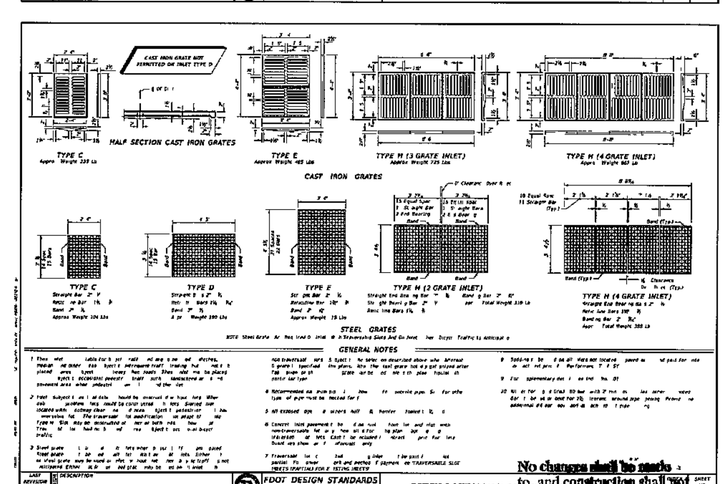

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APPROVED
MAY 23 2014
City of Destin
Technical Review Team

INTERLIGHT ENGINEERING CORPORATION
STRUCTURAL • TRAFFIC
5450 NORTH W STREET | PENSACOLA | FLORIDA | 32505

HENDERSON BEACH RESORT
DUNAVANT GULF, LLC
36008 EMERALD COAST PARKWAY, UNIT A-101
DESTIN, FLORIDA 32541

RECORD DATA
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PROJ NO 131 0 0 10
DRAWN BY MTM
REVIEWED BY DES

SEAL
DAVID E. SMITH
LICENSE No 58927
STATE OF FLORIDA
PROFESSIONAL ENGINEER
INTERLIGHT ENGINEERING CORP
5450 N W STREET
PENSACOLA, FL 32505
P: 850 333 4300

SHEET TITLE
STORM DETAILS (2 OF 3)

SHEET NUMBER
30 OF 36

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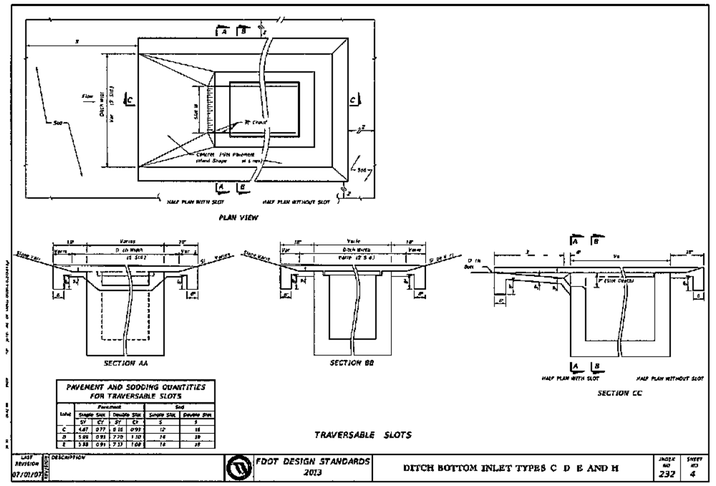
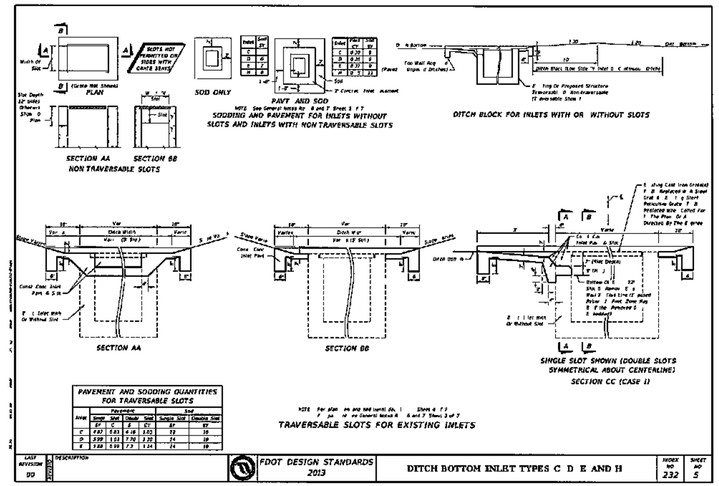


PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS						
Inlet	Pavement Single Slot	Pavement Double Slot	Sod Single Slot	Sod Double Slot		
	SY	CY	SY	CY		
C	4.47	0.77	8.15	0.93	12	18
D	5.05	0.91	9.79	1.10	14	20
E	5.38	0.91	9.79	1.09	14	20

TRAVERSABLE SLOTS

LAST REVISION 07/01/07 | DESCRIPTION | FDOT DESIGN STANDARDS 2013 | DITCH BOTTOM INLET TYPES C D E AND H | INDEX NO 232 | SHEET NO 4

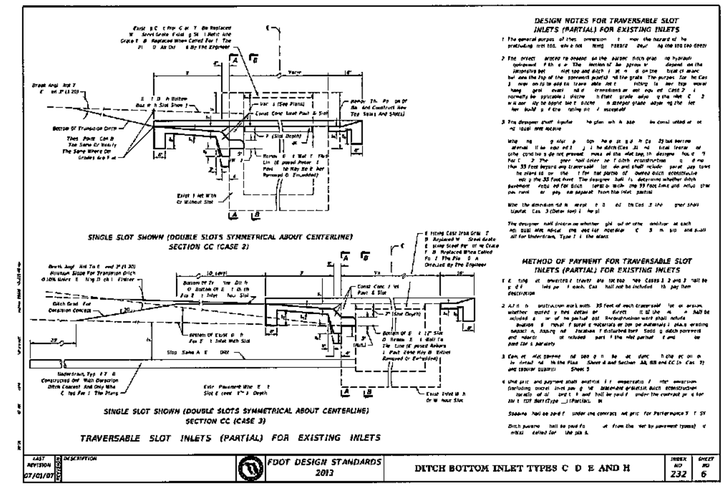


NOTE: See General Notes No. 6 and 7 Sheet 1 of 7

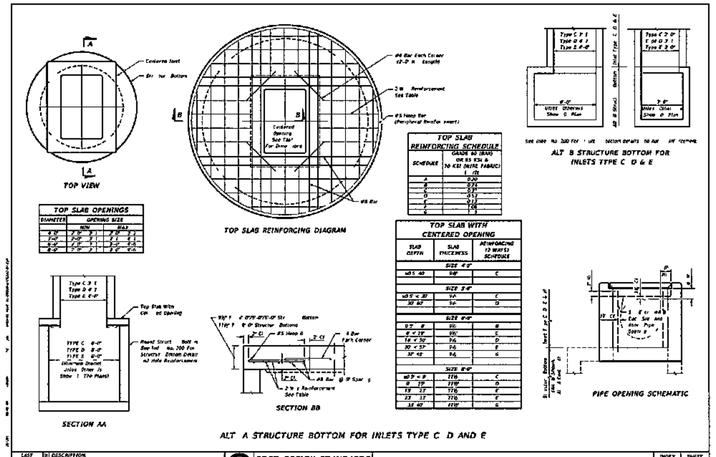
PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS						
Inlet	Pavement Single	Pavement Double	Sod Single	Sod Double		
	SY	CY	SY	CY		
C	4.47	0.83	8.15	1.02	12	18
D	5.05	1.11	9.79	1.30	14	20
E	5.05	1.10	9.79	1.24	14	20

TRAVERSABLE SLOTS FOR EXISTING INLETS

LAST REVISION 09 | DESCRIPTION | FDOT DESIGN STANDARDS 2013 | DITCH BOTTOM INLET TYPES C D E AND H | INDEX NO 232 | SHEET NO 5



LAST REVISION 07/01/07 | DESCRIPTION | FDOT DESIGN STANDARDS 2013 | DITCH BOTTOM INLET TYPES C D E AND H | INDEX NO 232 | SHEET NO 6



LAST REVISION 07/01/05 | DESCRIPTION | FDOT DESIGN STANDARDS 2013 | DITCH BOTTOM INLET TYPES C D E AND H | INDEX NO 232 | SHEET NO 7

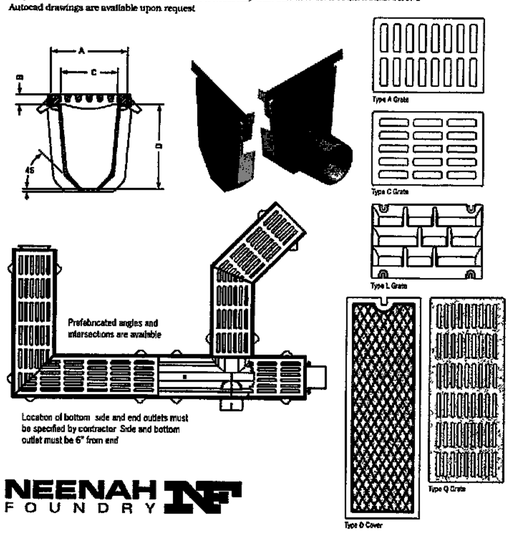
3/27/13

NEW R-4996 SERIES

HEAVY DUTY SELF-FORMING TRENCH FRAMES WITH GRATED OR SOLID COVERS

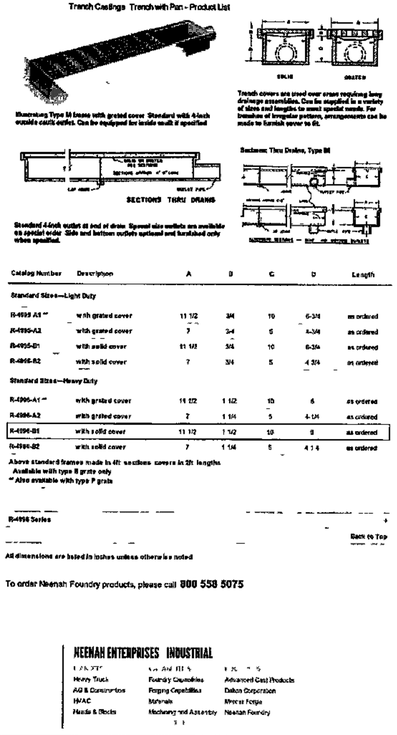
Catalog No.	Standard Cover Dimensions A	B	C	D	Frame Length	Outlet Location, Sizes Available Side	Bottom	End	Available Grate/Cover
R-4996-A	8	1	8	9	30	4, 6	4	4	Q **
R-4996-B	10	1	8	10-3/8	30	4, 6, 8	4, 6	4, 6	Q **
R-4996-C	12	1-1/2	10	10	36	4, 6, 8	4, 6, 8	4, 6, 8	A, C, D, L
* R-4996-CA	12	1-1/2	10	10	36	4, 6, 8	4, 6, 8	4, 6, 8	A

* Aircraft rated – standard bolted
** Can be incorporated into plans for ADA compliance
All grates/covers are available bolted to frames if necessary with stainless steel countersunk screws
Autocad drawings are available upon request



NEENAH FOUNDRY

Trench Castings Trench with Pan - Product List



Illustrating Type M frame with grated cover. Standard with 4-inch outside outlet outlet. Can be equipped for inside vault if specified

Trench covers are used over cross sections forming long drainage assemblies. Can be supplied in a variety of sizes and lengths to meet special needs. For branches of irregular portions, arrangements can be made to furnish cover to fit.

Standard 4-inch outlet at end of drain. Special size outlets are available as special order. Side and bottom outlets optional and furnished only when specified.

Catalog Number	Description	A	B	C	D	Length
Standard Sizes—Light Duty						
R-4996-A1 **	with grated cover	11 1/2	3/4	10	6-3/4	as ordered
R-4996-A2	with grated cover	7	3/4	5	4-3/4	as ordered
R-4996-B1	with solid cover	11 1/2	3/4	10	6-3/4	as ordered
R-4996-B2	with solid cover	7	3/4	5	4 3/4	as ordered
Standard Sizes—Heavy Duty						
R-4996-A1 **	with grated cover	11 1/2	1 1/2	10	6	as ordered
R-4996-A2	with grated cover	7	1 1/4	5	4-1/4	as ordered
R-4996-B1	with solid cover	11 1/2	1 1/2	10	6	as ordered
R-4996-B2	with solid cover	7	1 1/4	5	4 1/4	as ordered

Above standard frames made in 4ft sections covers in 2ft lengths
Available with type R grate only
** Also available with type P grate

R-4998 Series

Back to Top

All dimensions are listed in inches unless otherwise noted

To order Neenah Foundry products, please call 800 558 5075

NEENAH ENTERPRISES INDUSTRIAL

Heavy Truck	Foundry Capabilities	Advanced Cast Products
AG & Construction	Forging Capabilities	Dalton Corporation
HVAC	Materials	Mercer Forge
Heads & Decks	Machining and Assembly	Neenah Foundry

NEI HOME PRESS ABOUT US CONTACT US

www.nfco.com/municipal/products/trench-castings/trench-pan/ 2/3

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MAR 23 2014
City of Destin
Technical Review Team

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INNERLIGHT ENGINEERING CORPORATION
SOUTH
THE APPLIED SCIENCE OF SUCCESS
5430 NORTH W STREET | PENSACOLA | FLORIDA | 32505

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INNERLIGHT ENGINEERING CORP
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PENSACOLA, FL 32505
P: 850.323.4379

SHEET TITLE
STORM DETAILS (3 OF 3)

SHEET NUMBER
31 OF 36

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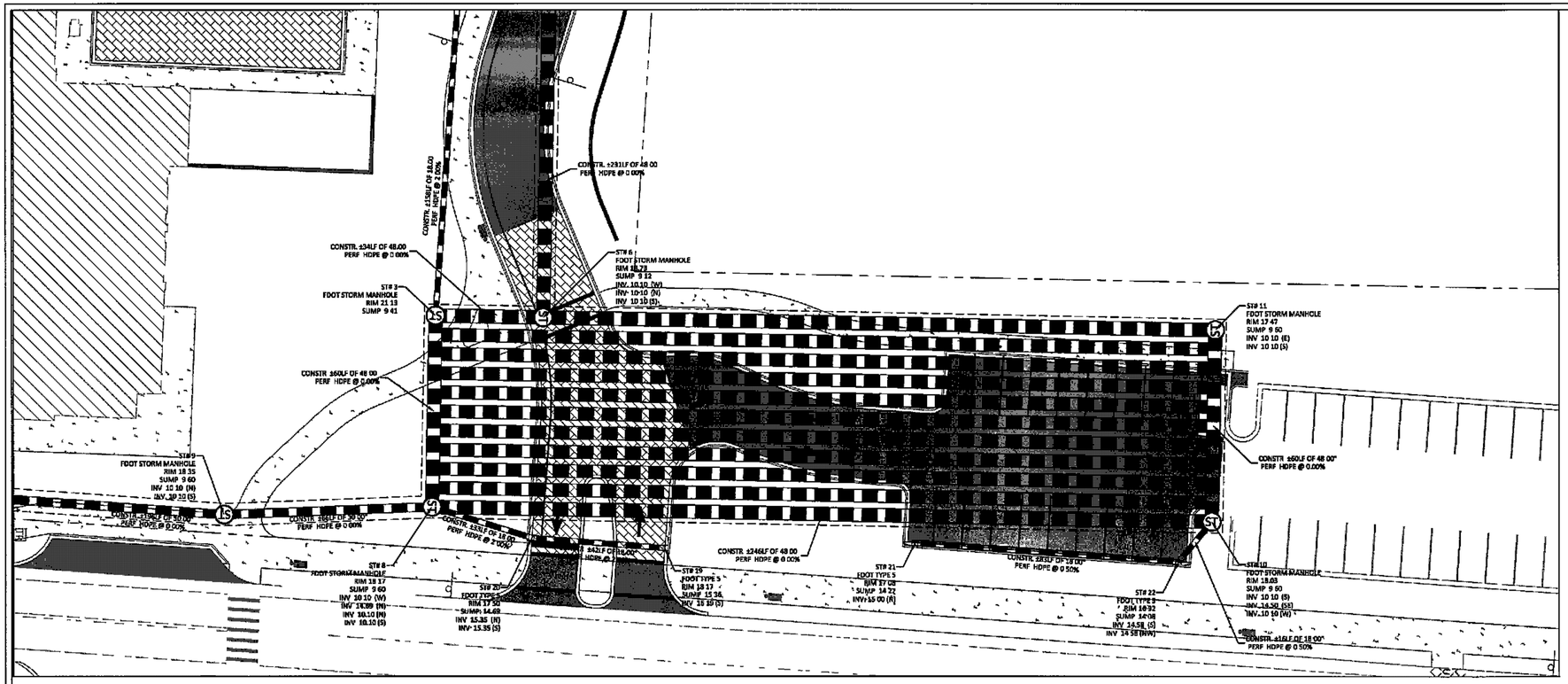

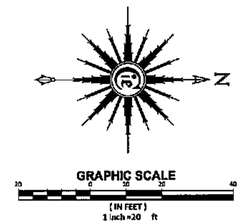

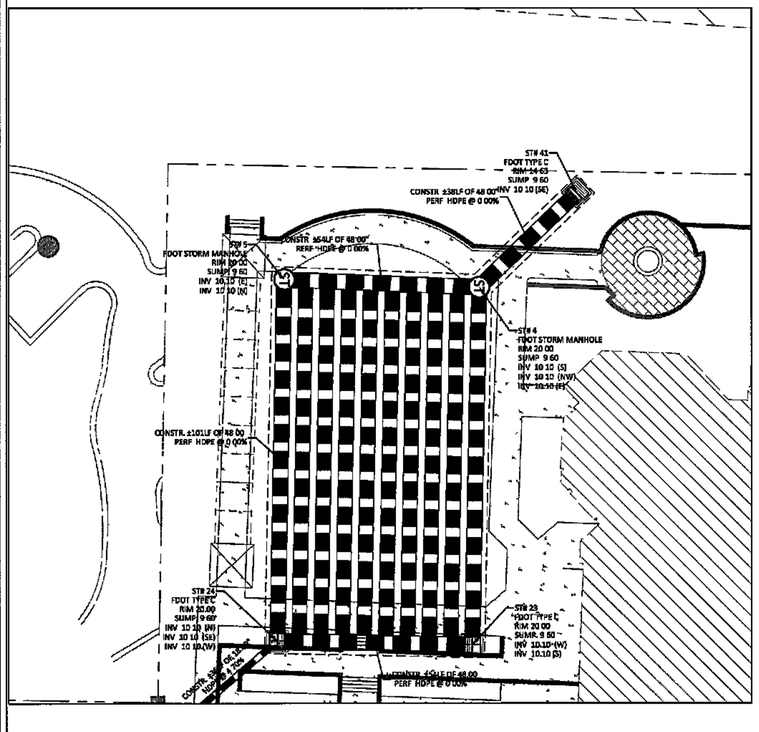

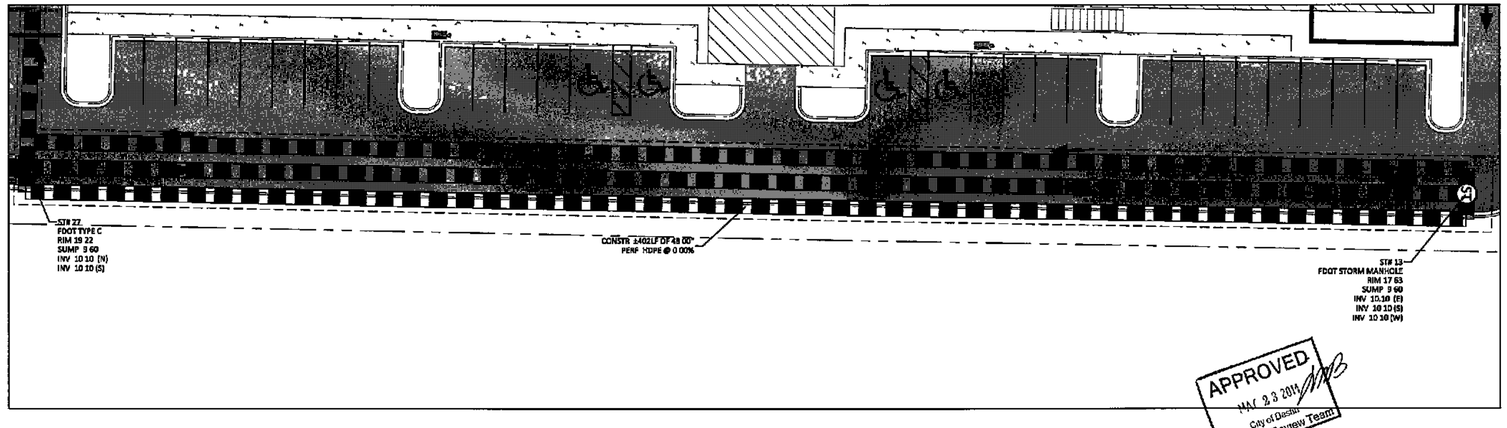

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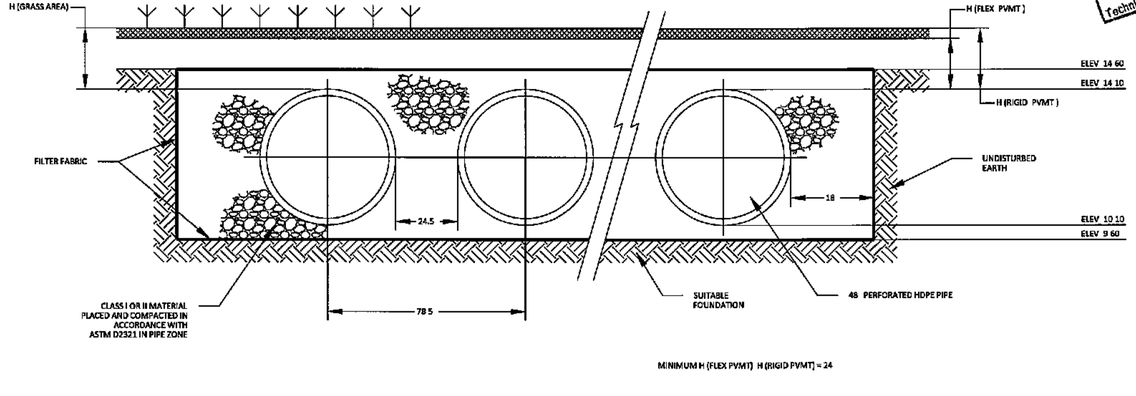

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DAVID E. SMITH LICENSE No. 56927 STATE OF FLORIDA PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE OF AUTHORIZATION CERT 6600 INNERLIGHT ENGINEERING CORP 5450 N DESTIN W STREET PENSACOLA, FL 32505 P 850.332.4376

SHEET TITLE
RETENTION DETAILS & SECTIONS

SHEET NUMBER
32 OF 36

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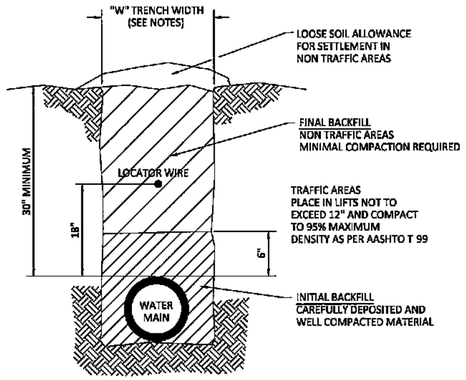


NOTES

1 WIDTH OF THE TRENCH AT ANY POINT BELOW 6" ABOVE THE TOP OF THE PIPE SHALL BE SUFFICIENT TO PROVIDE ADEQUATE ROOM FOR JOINING THE PIPE AND FILLING AND COMPACTING THE SIDE FILLS HOWEVER, IN NO CASE SHALL THIS WIDTH EXCEED THE OUTSIDE PIPE DIAMETER PLUS 2'-0"

2 TRENCH EXCAVATION FROM 6" ABOVE THE TOP OF THE PIPE MAY BE AS WIDE AS NECESSARY EXCEPT AS RESTRICTED BY THE LIMITS OF THE RIGHT OF WAY OR EASEMENT AND AS REQUIRED TO PROTECT EXISTING STRUCTURES AND CONDUITS

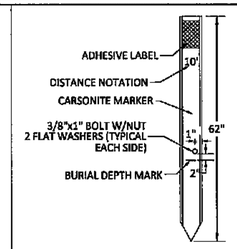
3 INITIAL BACKFILL - GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION SOIL TYPES OF HIGHLY ORGANIC SOILS OR HIGHLY PLASTIC EXPANSIVE CLAYS SHALL NOT BE USED INITIAL BACKFILL SHALL BE COMPACTED TO UNIFORMLY DEVELOP LATERAL SOIL FORCES DURING THE BACKFILL OPERATION

4 FINAL BACKFILL GENERALLY, MATERIAL OBTAINED FROM THE TRENCH EXCAVATION WITH MAXIMUM SIZE OF STONE NOT TO EXCEED SIX (6") INCHES

5 ALL PVC PIPES SHALL HAVE AN INSULATED 12 GAUGE SOLID COPPER LOCATOR WIRE INSTALLED 18" ABOVE THE WATER MAIN

1/33 TRENCH DETAIL

NTS



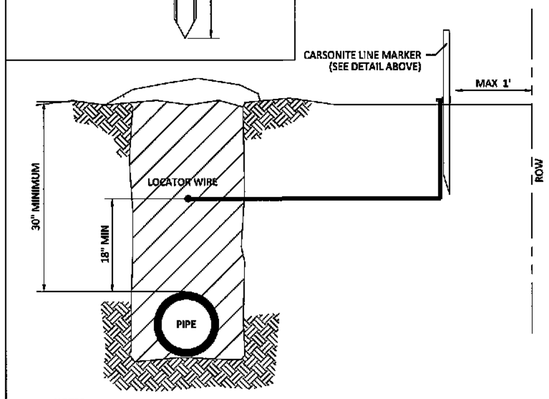
NOTES

1 UNDER THE ADHESIVE LABEL, CONTRACTOR SHALL WRITE THE PERPENDICULAR DISTANCE FROM THE MARKER TO THE WATER MAIN USING AN INDELIBLE MARKER

2 THE BOLT HOLE SHALL BE DRILLED OFFSET AS SHOWN IN DETAIL TO PREVENT DAMAGE TO THE SPINE OF THE MARKER

2/33 LINE MARKER DETAIL

NTS

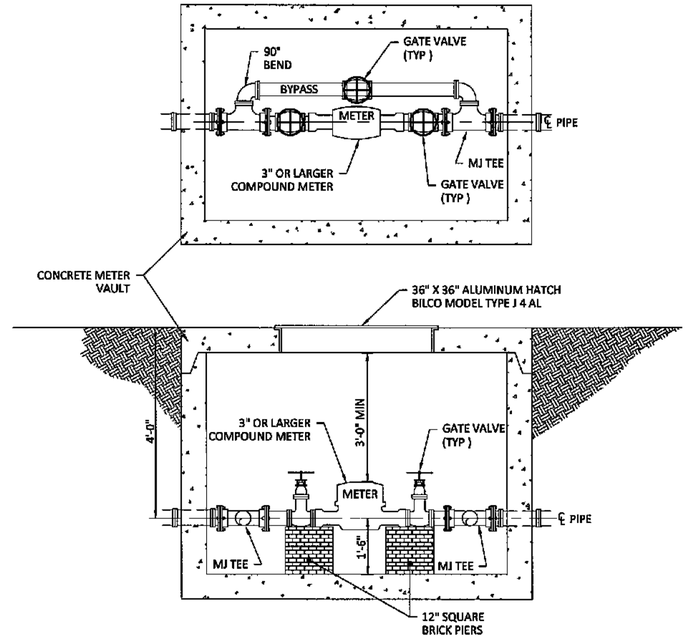


NOTES

1 LOCATOR WIRE SHALL BE LOOPED AROUND 3/8" BOLT AND SECURED TO MARKER WITH FLAT WASHERS, NUT AND BOLT AS SPECIFIED ABOVE LOCATOR WIRE SHALL BE CONNECTED TO MAINTAIN CONTINUITY

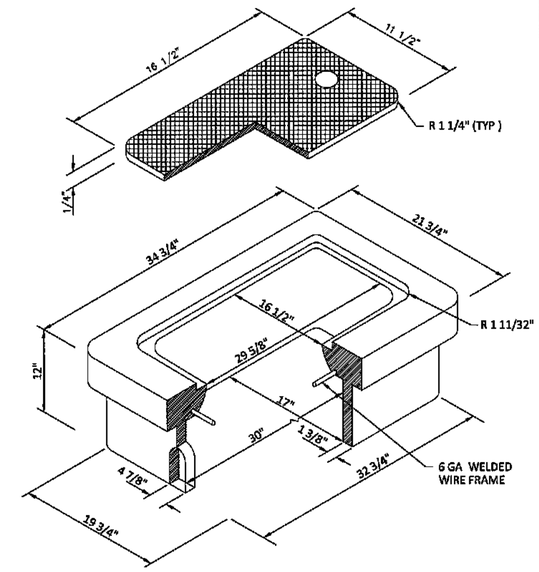
3/33 LINE MARKER PLACEMENT DETAIL

NTS



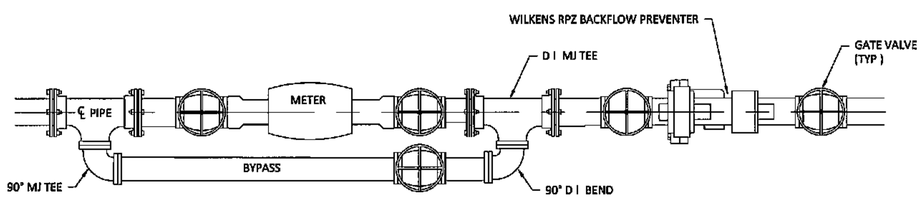
4/33 MASTER METER DETAIL (BELOW GROUND METER INSTALLATION)

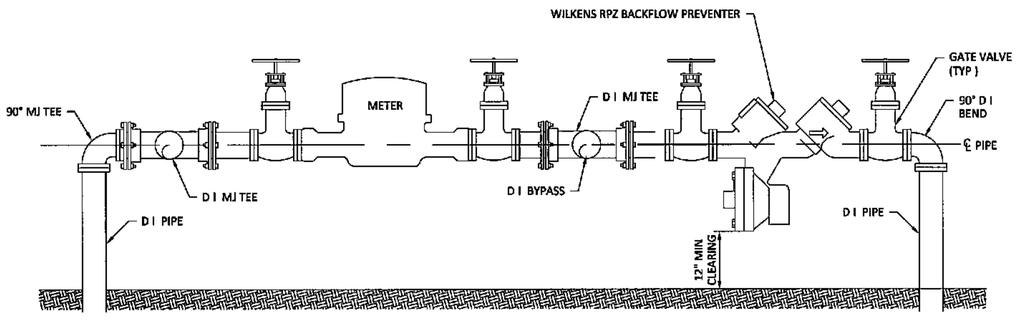
NTS



5/33 PRECAST CONCRETE BOX WITH METAL LID

NTS





NOTES

1 DUCTILE IRON PIPE SHALL BE COMPATIBLE WITH METER SIZE

2 ENTIRE ASSEMBLY MUST BE INSULATED

3 BYPASS VALVE MUST BE EQUIPPED WITH HAND WHEEL

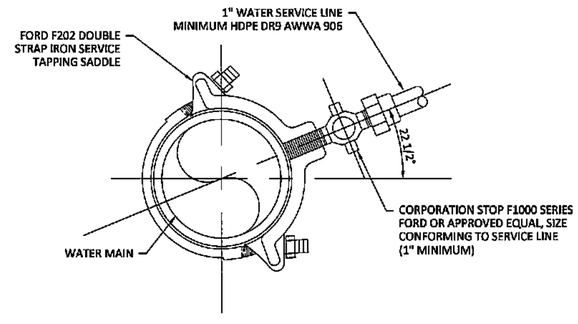
4 BYPASS VALVE WILL BE LOCKED IN THE OFF POSITION

5 WHEN UNDERGROUND INSTALLATION IS USED, THE BYPASS LINE MUST PASS THROUGH THE METER VAULT

6 THE BACKFLOW PREVENTOR SHALL BE LOCATED DOWN STREAM FROM THE METER

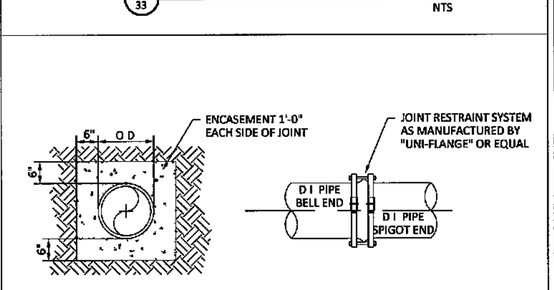
6/33 3" OR LARGER ABOVE GROUND METER INSTALLATION

NTS



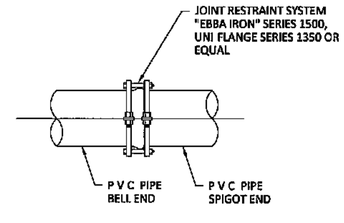
7/33 TYPICAL WATER SERVICE CONNECTION

NTS



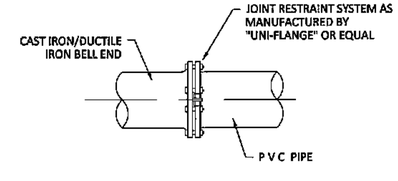
8/33 TYPICAL RESTRAINED D.I TO D I JOINT

NTS



9/33 TYPICAL RESTRAINED P V C. JOINT

NTS



10/33 TYPICAL RESTRAINED CAST IRON/DUCTILE IRON TO P V C JOINT

NTS

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MAY 20 2014

SHEET TITLE
POTABLE WATER DETAILS (1 OF 3)

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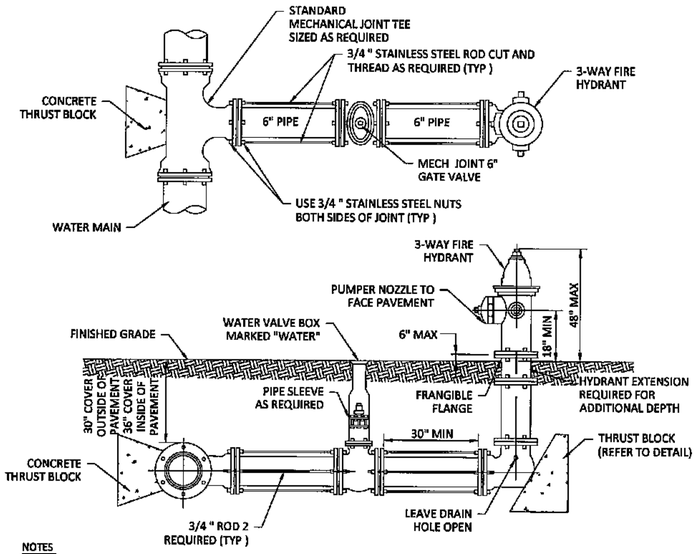


NOTES

1 FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK WITHIN R/W EXCEPT WHERE CONDITIONS AND OR REGULATION PROHIBIT FIRE HYDRANTS SHALL BE LOCATED WITHIN RIGHTS OF WAY OR UTILITY EASEMENTS

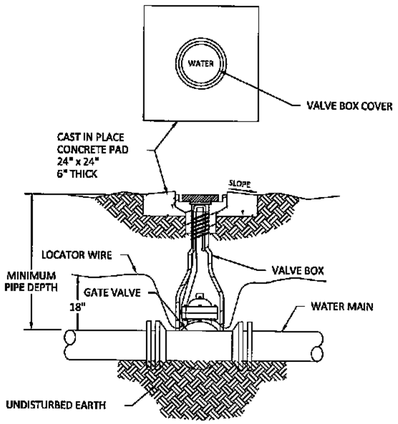
2 ALL RODS AND ASSOCIATED HARDWARE SHALL BE STAINLESS STEEL

3 ALL MECHANICAL JOINTS SHALL USE MEGA LUG RESTRAINT TYPE RETAINING GLANDS

4 VALVE BOXES SHALL BE HEIGHT ADJUSTABLE

1/34 TYPICAL FIRE HYDRANT INSTALLATION

NTS



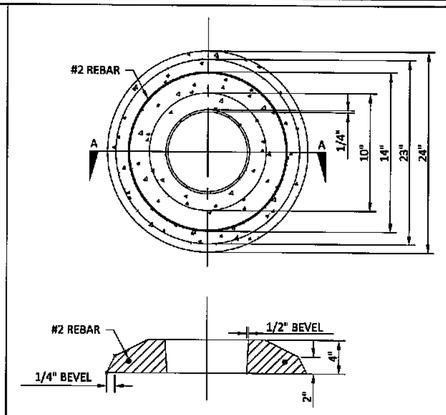
NOTES

1 THE LOCATOR WIRE SHALL BE LOOPED THRU VALVE BOX TO EXTEND 10" ABOVE GROUND LINE

2 ALL PADS SHALL BE POURED IN PLACE

2/34 GATE VALVE AND BOX

NTS



NOTES

1 ALL DIMENSIONS ARE IN INCHES

2 MARKINGS WILL BE CAST AS REQUIRED

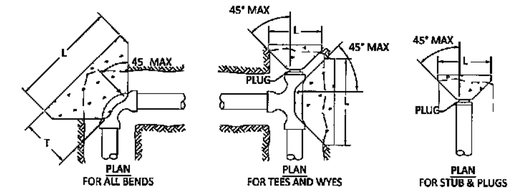
3 FIBER MESH REINFORCED WITH #2 SHEET RE BAR FOR STRENGTH

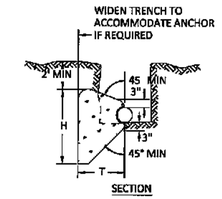
4 CONCRETE RATED AT 4000 PSI

5 USE PROCAST INC 24" BEVELED CONC PAD, REF PAGE VB5, CODE CVP24RD SUPPLIED BY HUGHES SUPPLY INC P O BOX 7956 - MOBILE, AL 36606 (334) 476 5606, FAX (334) 476 5621

3/34 24" ROUND BEVELED PRECAST CONCRETE VALVE PAD

NTS





CLAY SOIL ANCHOR BLOCK TYPE

PIPE	TEES	PLUGS	90°	45°	<45°
6"	B	B	B	A	A
8"	C	C	D	B	A
10"	D	D	E	C	B
12"	E	E	F	E	C

SANDY SOIL ANCHOR BLOCK TYPE

PIPE	TEES	PLUGS	90	45°	<45°
6"	C	C	D	C	A
8"	E	E	F	D	C
10"	F	F	G	F	C
12"	G	G	G	F	E

ANCHOR BLOCK DIMENSIONS

TYPE	L ft	H ft	T ft
A	2 0	2 0	2 0
B	2 0	3 0	2 0
C	3 0	3 0	3 0
D	4 0	3 0	3 0
E	4 0	4 0	3 0
F	5 0	5 0	4 0
G	7 0	7 0	5 0

NOTES

1 ANCHOR BLOCKS SHALL BEAR ON UNDISTURBED EARTH

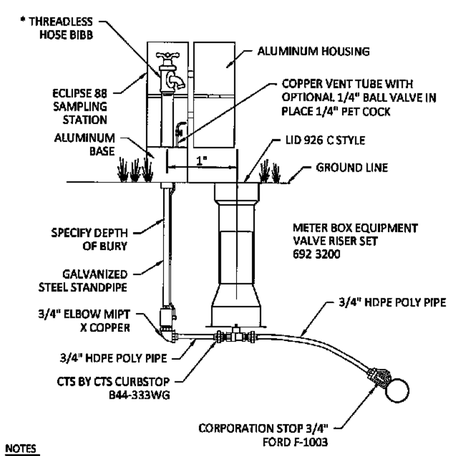
2 ALL FITTINGS SHALL BE WRAPPED IN 6 MIL PLASTIC TO PREVENT THE CONCRETE FROM BONDING TO THE FITTING

3 IN NO CASE SHALL THE PIPE BE ENCASED WITH CONCRETE CONCRETE SHALL NOT BE PLACED SO AS TO RENDER THE PIPE AND FITTING INACCESSIBLE

4 CONCRETE SHALL BE 3000 PSI OR STRONGER

4/34 CONCRETE ANCHOR BLOCK

NTS



NOTES

1 SAMPLING STATIONS SHALL BE 2 5' BURY, WITH A 3/4" FIP INLET, AND A (3/4 " HOSE OR UNTHREADED) NOZZLE

2 ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NON REMOVABLE, ALUMINUM CAST HOUSING

3 WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY

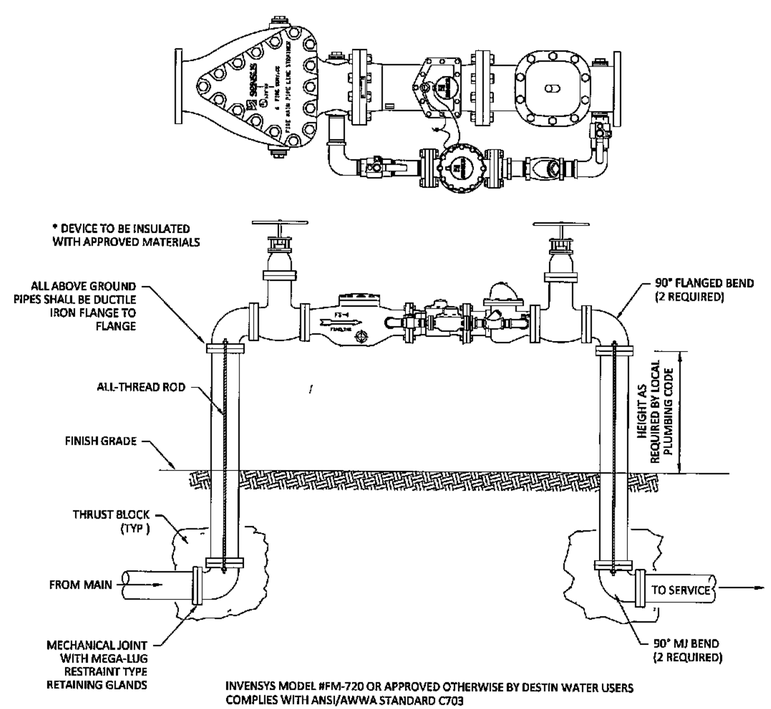
4 ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING EXTERIOR PIPING SHALL BE GALVANIZED STEEL (BRASS PIPE ALSO AVAILABLE)

5 A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH

6 ECLIPSE NO 88 SAMPLING STATION SHALL BE MANUFACTURE BY KUPFERLE FOUNDRY, ST LOUIS, MO 63102

5/34 TYPICAL WATER SAMPLING STATION

NTS



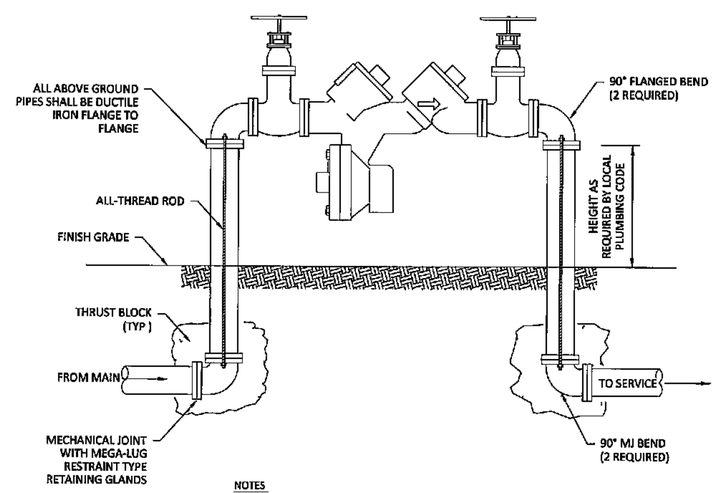
INVENSYS MODEL #FM-720 OR APPROVED OTHERWISE BY DESTIN WATER USERS COMPLIES WITH ANSI/AWWA STANDARD C703

6/34 FIRE LINE BACK FLOW PREVENTER

NTS

BACKFLOW PREVENTERS

1 ALL WATER SERVICE LINES AHALL BE REQUIRED TO HAVE A BACKFLOW DEVICE PURSUANT TO DESTIN WATER USERS SPECIFICATIONS
2 ALL FIRE LINES SHALL HAVE A DOUBLE DETECTOR CHECK VALVE ASSEMBLY WITH A 3/4" BYPASS METER
3 RPZ TYPE BACKFLOW PREVENTERS ARE REQUIRED FOR ALL HIGH HAZARD WATER USES
4 ALL BACKFLOW PREVENTERS SHALL BE OF THE TYPE REQUIRED BY FDEP, AWWA, AND NFPA CODES
5 ALL WATER TAPS SHALL BE LOCATED OUT FROM UNDER PROPOSED FUTURE PAVEMENT
6 ALL SWIMMING POOLS SHALL HAVE RPZ BACKFLOW PREVENTERS



NOTES

1 MAKE & MODEL NUMBER TO BE APPROVED BY DESTIN WATER USERS

2 DEVICE TO BE INSULATED WITH APPROVED MATERIALS

7/34 RPZ ASSEMBLY BACKFLOW PREVENTER 3" & UP

NTS

APPROVED
MAY 29 2014
City of Destin
Technical Review Team

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PROFESSIONAL ENGINEER
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PENSACOLA, FL 32505
P: 850.332.4575

SHEET TITLE
POTABLE WATER DETAILS (2 OF 3)

SHEET NUMBER
34 OF 36

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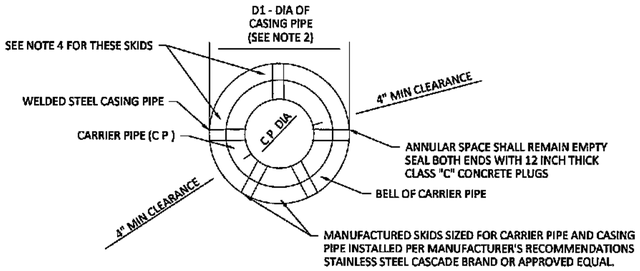


1/35 **TYPICAL CASING DETAIL**

NTS

CASING PIPE SIZES (MIN)												
CARRIER PIPE NOM DIA (D2)	4"	6"	8"	10"	12"	14"	16"	18"	22"	24"	30"	36"
CASING PIPE NOM DIA (D1)	8"	12"	16"	22"	24"	30"	30"	30"	36"	36"	48"	60"
HWY X-ING WALL THK INCHES	0 188	0 188	0 188	0 188	0 188	0 188	0 188	0 188	0 188	0 250	0 375	0 500

NOTES

1 MINIMUM COVER TO TOP OF CASING SHALL BE 36"

2 THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE 4" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING

3 ALL JACK AND BORE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY ACCOMODATION MANUAL, LATEST EDITION

4 SKIDS SHALL BE SECURED TO THE CARRIER PIPE AS PER MANUFACTURERS RECOMMENDATIONS (MINIMUM OF 3 SKIDS PER PIPE JOINT)

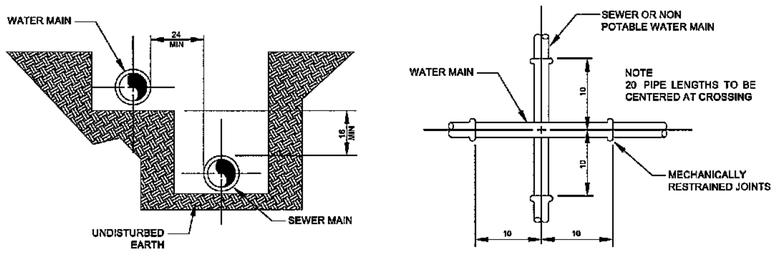
5 ROTATION OF CARRIER PIPE INSIDE THE CASING PIPE WILL NOT BE PERMITTED ALL JOINTS WITHIN THE CASING SHALL HAVE JOINT RESTRAINTS INSTALLED

6 THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF CASING AND CARRIER PIPE INSTALLATION FOR APPROVAL PRIOR TO PURCHASING MATERIALS

7 CASING SHALL EXTEND A MINIMUM OF 8 FEET PAST EDGE OF PAVEMENT

2/35 **WATER MAIN CROSSING FOR ROADWAYS**

NTS



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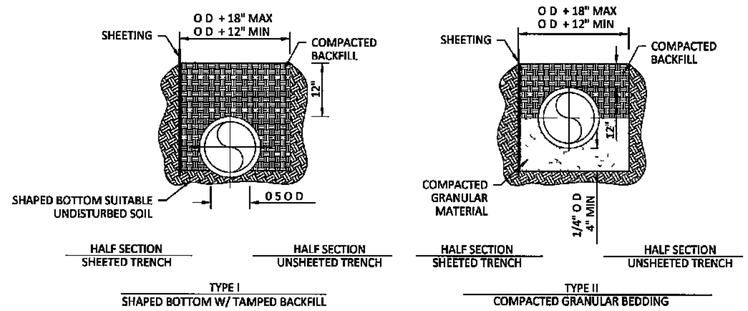
2 WHERE AN 18 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NONPOTABLE WATER MAIN CROSSINGTHEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NONPOTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 6 INCHES THE SEWER OR NONPOTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING CONCRETE ENCASEMENT SHALL BE POURED SEPERATELY FOR EACH PIPE

3/35 **WATER/SEWER SEPARATION DETAIL**

NTS



4/35 **CLASS "B" TYPICAL BEDDING DETAIL**

NTS

UTILITY NOTES

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NOTE
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APPROVED
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JUN 25 2014

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POTABLE WATER DETAILS (3 OF 3)

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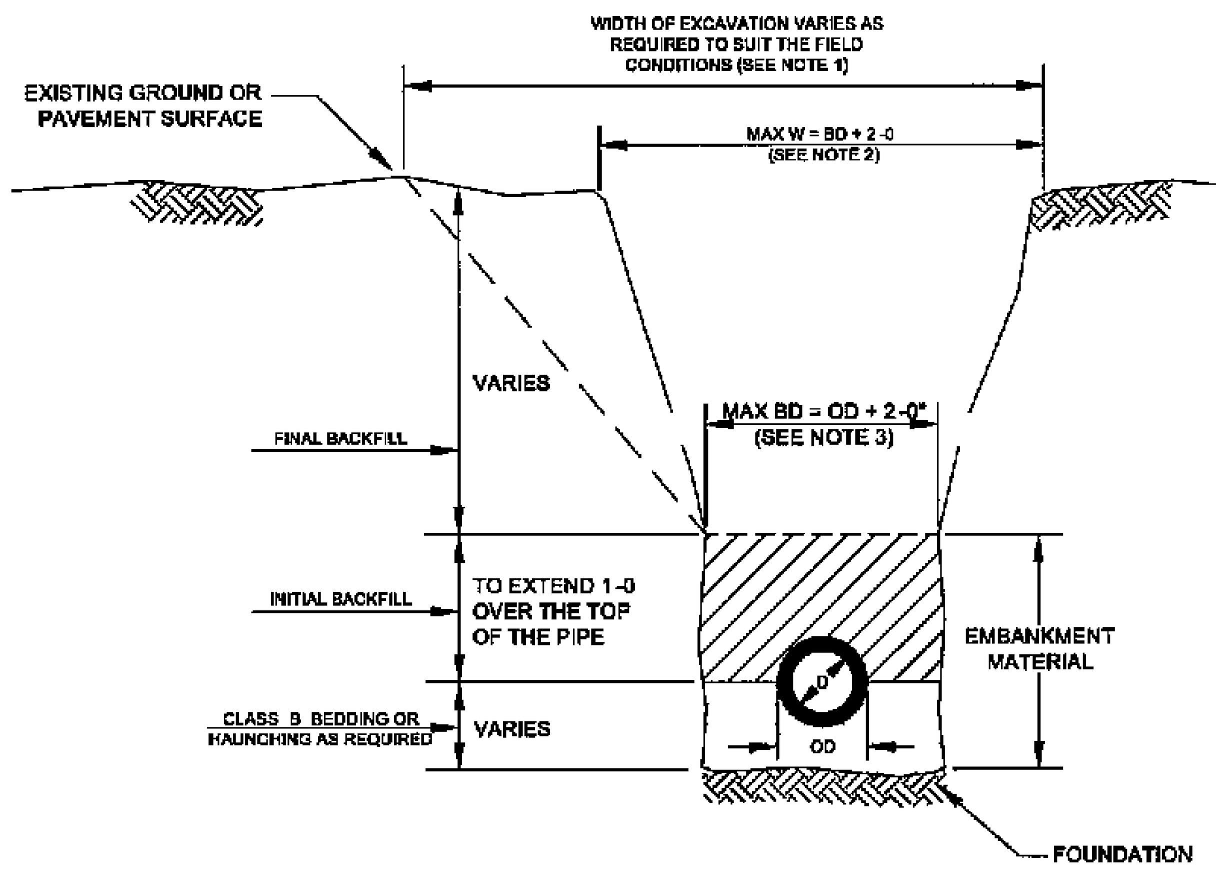
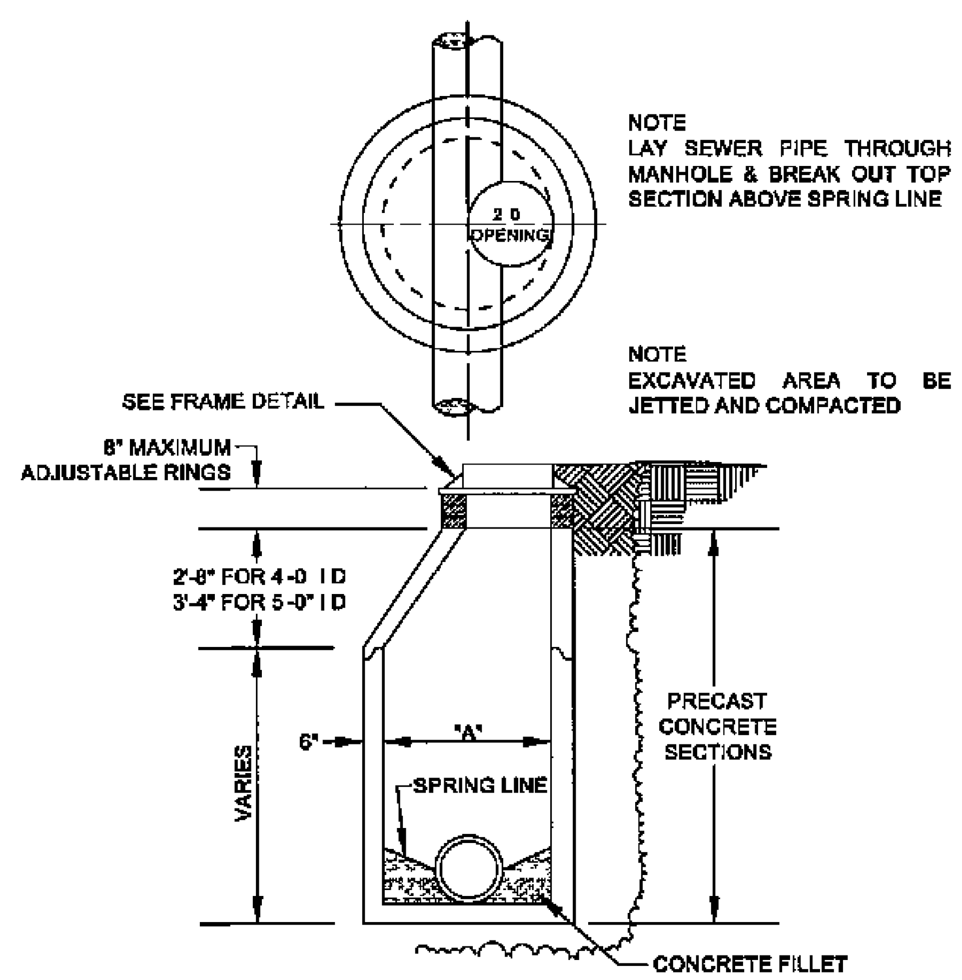


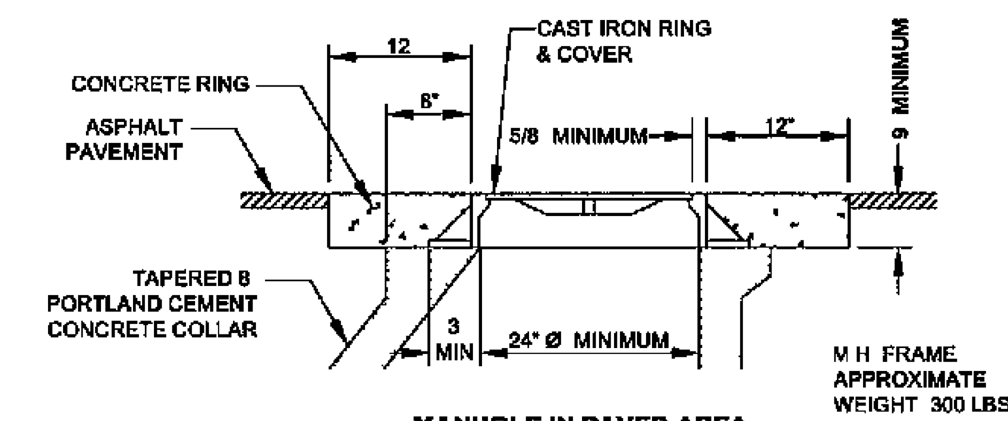
NOTES
1. TRENCH EXCAVATION FROM 12 INCHES ABOVE THE TOP OF THE PIPE MAY BE AS WIDE AS NECESSARY EXCEPT AS RESTRICTED BY THE LIMITS OF THE RIGHT OF WAY OR EASEMENT AND AS REQUIRED TO PROTECT EXISTING STRUCTURES AND CONDUITS
2. "W" - MAXIMUM WIDTH OF TRENCH, MEASURED IN FEET USED TO DETERMINE LIMITS OF ROCK AND EARTH EXCAVATION, PAVEMENT/DRIVEWAY REPLACEMENT, EMBEDMENT ITEMS AND OTHER ASSOCIATED ITEMS OF TRENCH CONSTRUCTION
3. "BD" MAXIMUM ALLOWABLE WIDTH OF THE TRENCH, MEASURED IN FEET, AT A POINT 12 INCHES ABOVE THE TOP OF THE PIPE FOR SHEETED OR UNSHEETED TRENCH
4. "OD" - OUTSIDE DIAMETER OF THE PIPE, MEASURED IN FEET
5. "D" NOMINAL INSIDE DIAMETER OF PIPE, MEASURED IN INCHES

1/36 GRAVITY SEWER TRENCH DETAIL
NTS

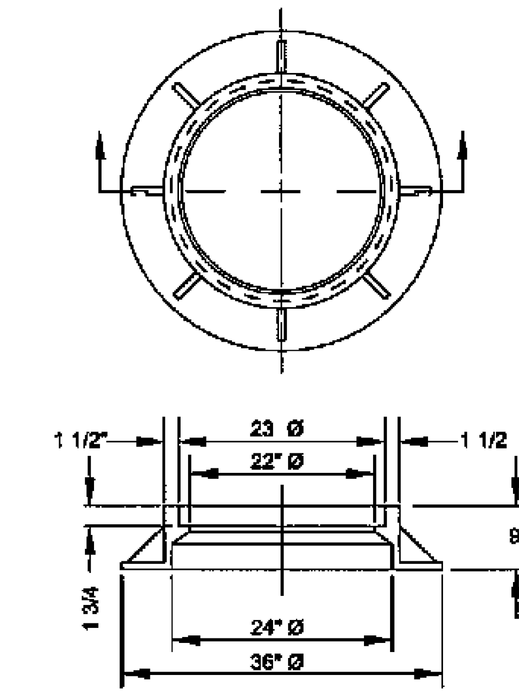


DIAMETER FOR BASE IS 12 LARGER THAN OUTSIDE DIAMETER OF MANHOLE WALLS
NOTE
"A DIMENSION =
48 DIAMETER FOR 36" DIAMETER SEWER AND SMALLER
60" DIAMETER FOR 42 - 48" DIAMETER SEWER
* NO SADDLE OR DOG HOUSE MANHOLES

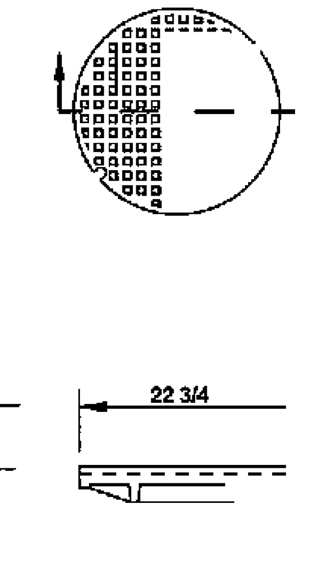
TYPICAL MANHOLE



MANHOLE IN PAVED AREA

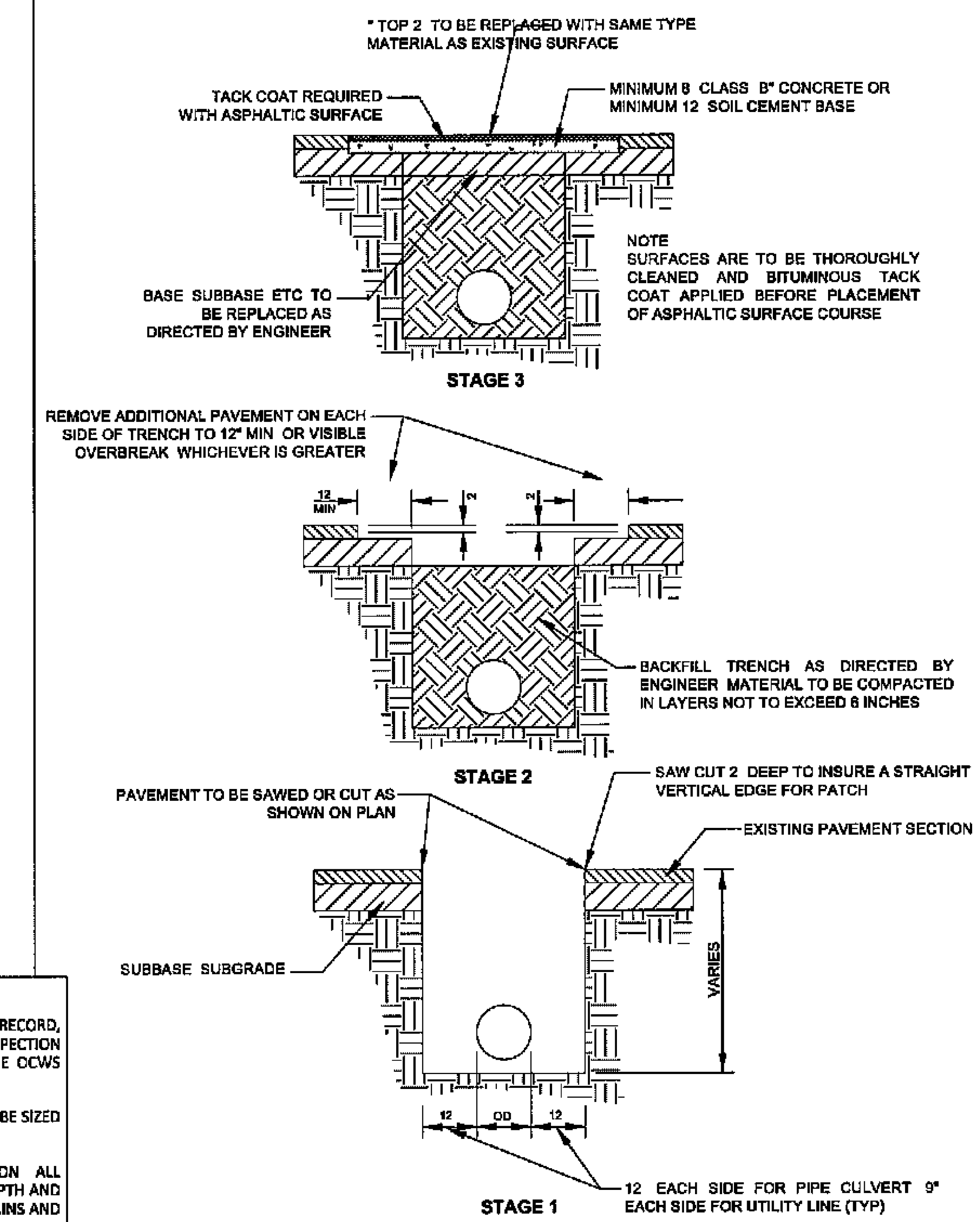


APPROXIMATE WEIGHT 390 LBS
MANHOLE FRAME



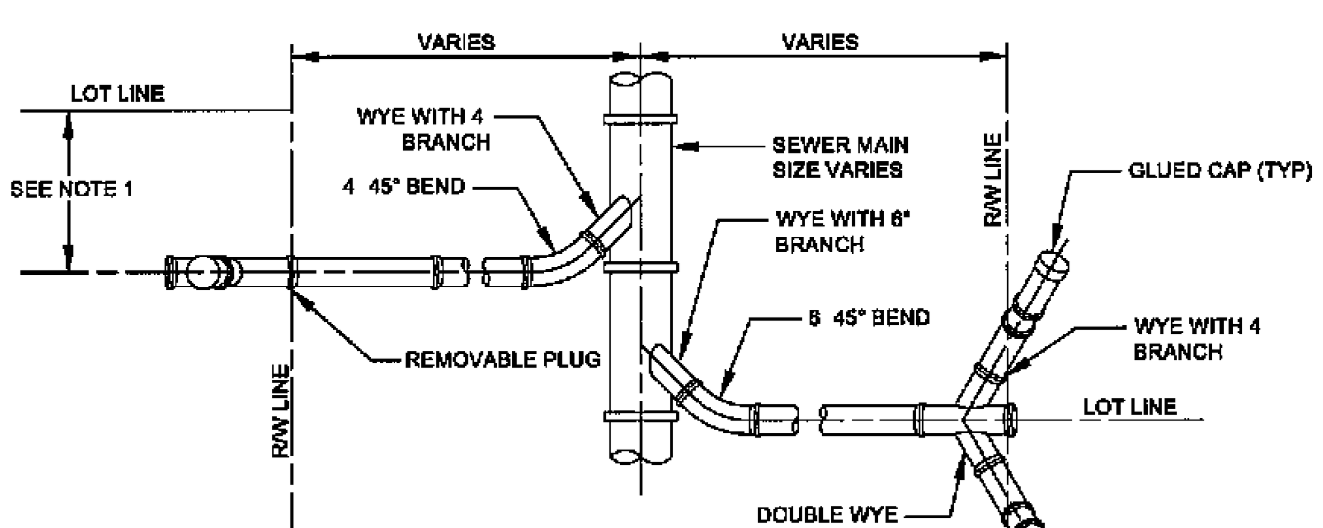
SOLID INDENTED
APPROXIMATE WEIGHT 150 LBS
MANHOLE COVER

2/36 SANITARY SEWER MANHOLE DETAIL
NTS

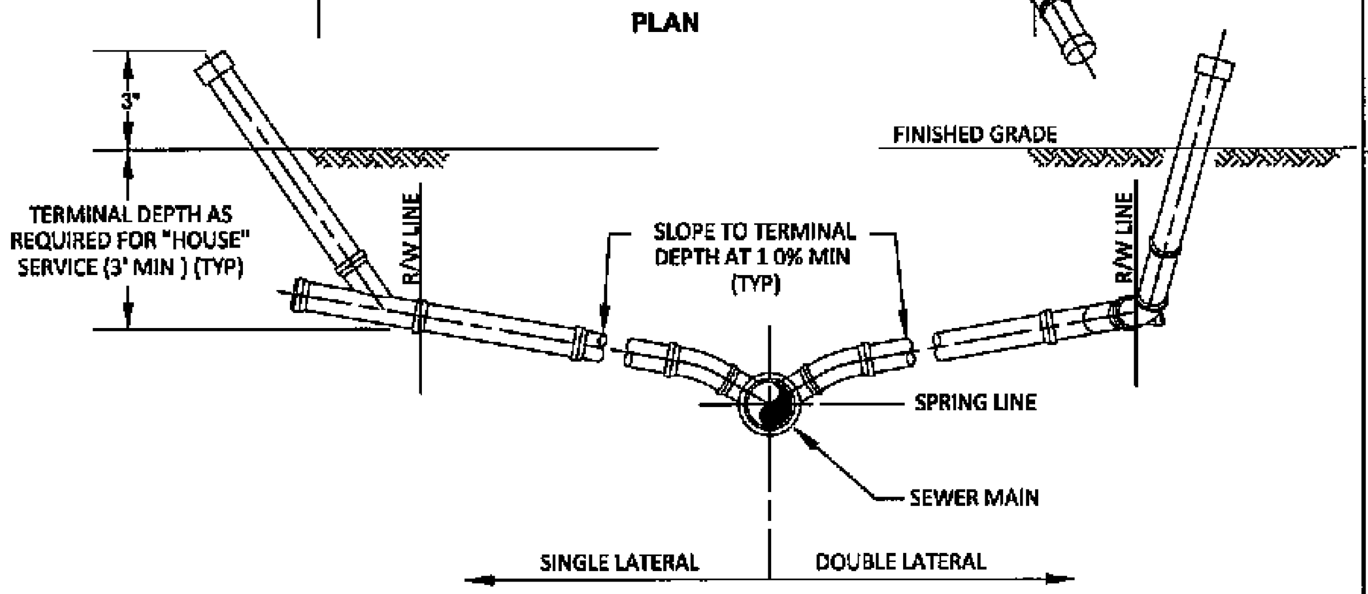


UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT

6/36 PAVEMENT PATCHING DETAIL
NTS



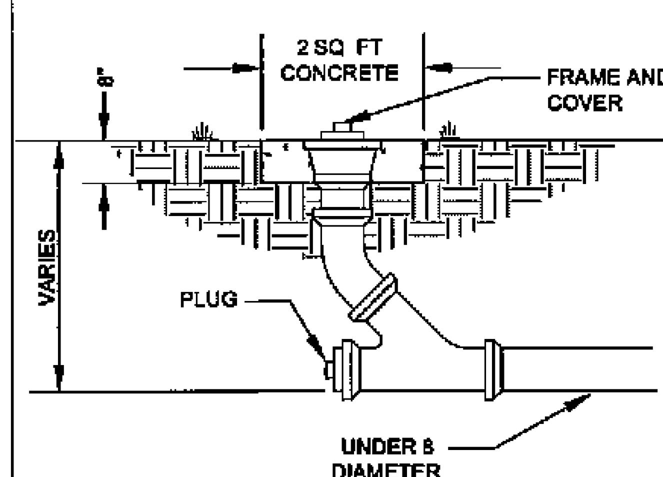
PLAN



PROFILE

NOTES
1. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE, 25' MAXIMUM
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE

3/36 SERVICE LATERAL DETAIL
NTS



4/36 CLEAN OUT DETAIL
NTS

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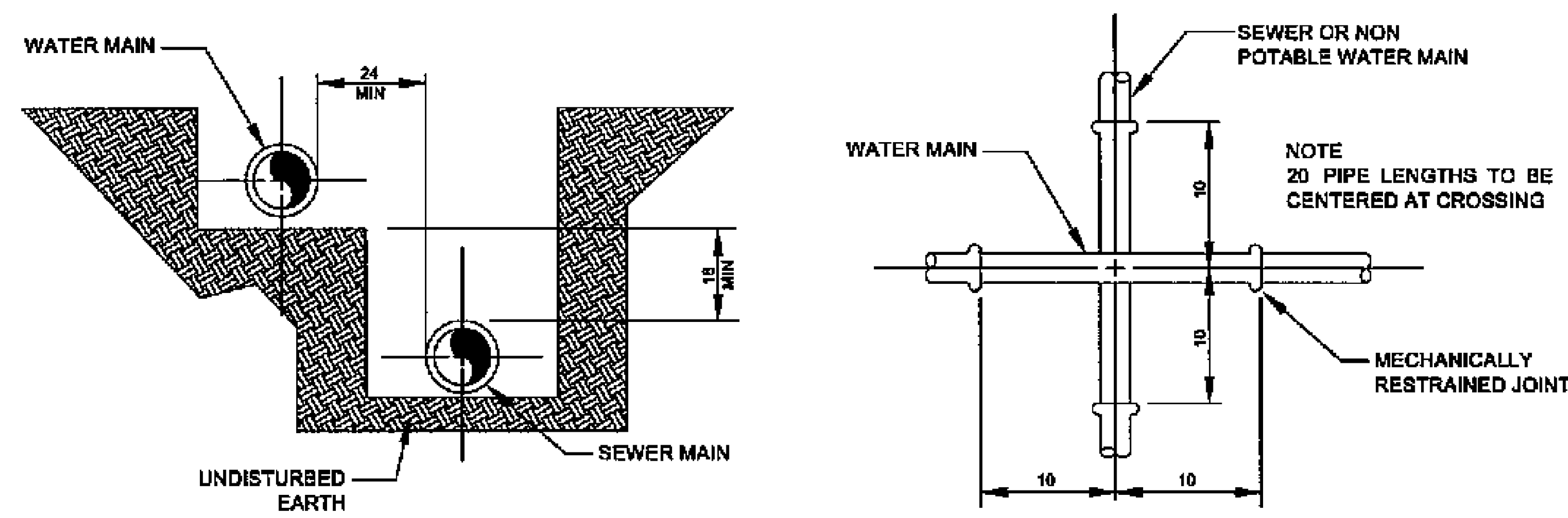

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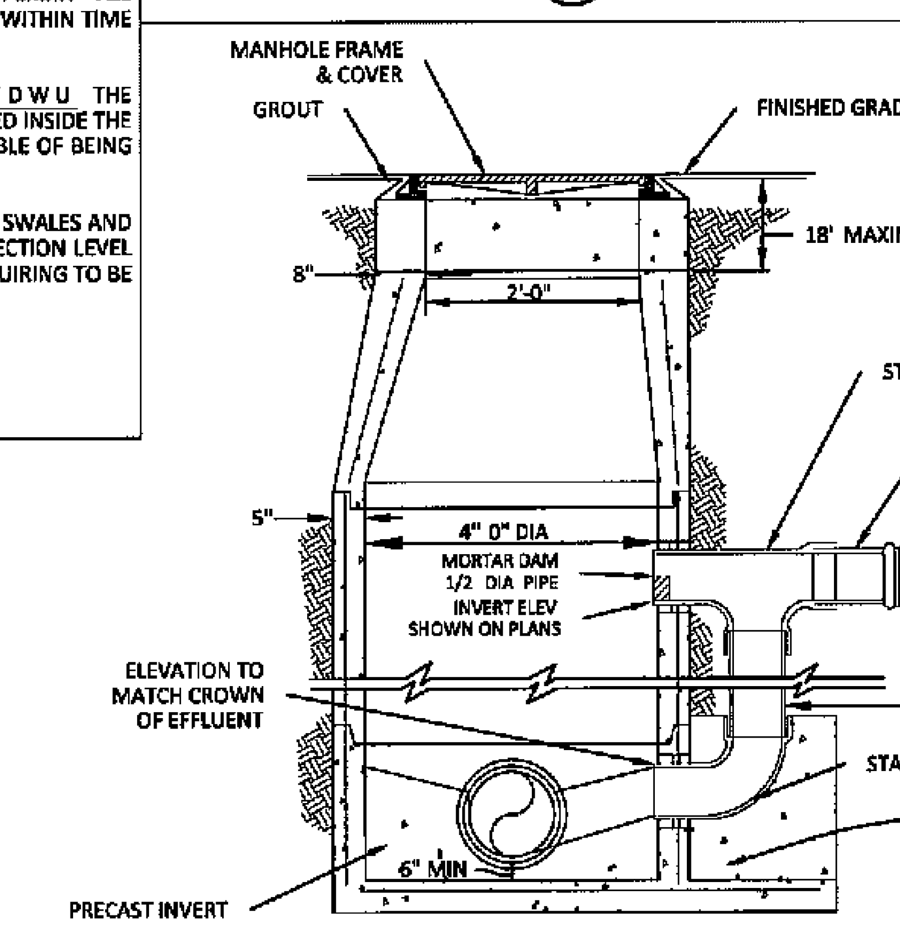
5/36 WATER/SEWER SEPARATION DETAIL
NTS



SECTION VIEW

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NOTES
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH LATEST EDITION OF ASTM C 478 WITH 4 000 P S I CONCRETE TYPE II CEMENT
2. THE INTERIOR AND EXTERIOR OF MANHOLE SHALL BE GIVEN TWO COATS OF FABERTITE BITUMINOUS WATERPROOFING MATERIAL, DO NOT COAT JOINT OF PIPE OPENING SURFACES
3. DROP MANHOLE IS REQUIRED AT ALL LOCATIONS WHERE INVERT ELEVATION DIFFERENCE IS OVER 2 FEET

NOTE MANHOLE FRAME AND COVER SHALL BE U S FOUNDARY E-170 OR EQUIVALENT

7/36 SANITARY SEWER DROP MANHOLE
NTS

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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LANDSCAPE PERMIT DOCUMENTS

FOR

Henderson Beach Resort

Okaloosa County, Florida

November 15, 2013

INDEX TO DRAWINGS:

CVR	COVER
LANDSCAPE ARCHITECTURE	
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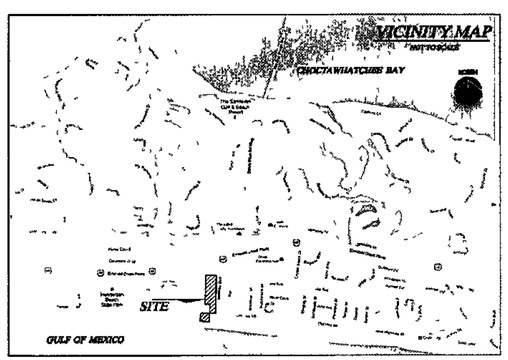
L4 of 6	LANDSCAPE PLAN
L5 of 6	LANDSCAPE PLAN
L6 of 6	PLANT SCHEDULE & DETAILS
IRRIGATION	
IR1 of 7	IRRIGATION PLAN
IR2 of 7	IRRIGATION PLAN
IR3 of 7	IRRIGATION PLAN
IR4 of 7	IRRIGATION PLAN, NOTES & DETAILS
IR5 of 7	IRRIGATION DETAILS
IR6 of 7	IRRIGATION DETAILS
IR7 of 7	IRRIGATION DETAILS
OUTDOOR LIGHTING	
E01 01 of 8	ELECTRICAL LEGENDS, GENERAL NOTES & SPECIFICATIONS
E01 02 of 8	LIGHTING FIXTURE SCHEDULE
E01 03 of 8	OUTDOOR LIGHTING DETAILS
E01 04 of 8	OUTDOOR LIGHTING SITE PLAN
E01 05 of 8	OUTDOOR LIGHTING SITE PLAN
E01 06 of 8	OUTDOOR LIGHTING SITE PLAN
E01 07 of 8	OUTDOOR LIGHTING SITE PLAN
E01 08 of 8	OUTDOOR LIGHTING SITE PLAN

LOCATION MAP:



PREPARED BY:

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Phone (850)391-0360
CONTACT Dave Malcolm

IRRIGATION DESIGN

Clark Irrigation Design & Consulting, Inc
Sustaining Landscapes. Conserving Water
P O Box 693
Lavonia, GA 30553
Phone 706-356-0309
Fax 706-356-1948
CONTACT Michael Clark

OUTDOOR LIGHTING DESIGN

PINNACLE ENGINEERING GROUP, P A
3303 Thomasville Road, Suite 102
Tallahassee, FL 32308
Phone (850)422-1763
Fax (850)422-1502
Engineering Business #8783
CONTACT Frank Lovelace

PREPARED FOR:

Dunavant Gulf, LLC
Managing Partner Mr Bill Hagerman
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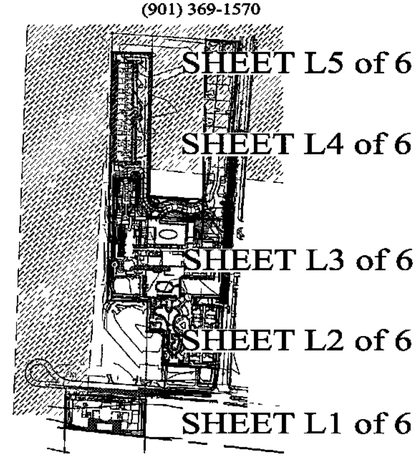
Destin, FL 32541
(901) 369-1570



OVERALL SITE MAP NTS

SITE DATA TABLE:

TOTAL SITE 11 42 AC / 497,455 SQ FT

ZONING CRYSTAL BEACH RESORT (CBR)

- PRESERVATION/REFORESTATION TREES (1 TREE PER 0 1 AC)
- 11 42 TOTAL AC divided by 0 1= 115 TREES REQUIRED
- 0 EXISTING TREES ON SITE FOR PRESERVATION
- A MINIMUM OF 115 TREES HAVE BEEN PROVIDED TO SATISFY REFORESTATION REQUIREMENTS (IN ADDITION TO OTHER LANDSCAPE REQUIREMENTS)

OPEN SPACE REQUIRED 124,364 SF (25% OF 497,455 SF)

OPEN SPACE PROVIDED 214,360 SF (43% OF 497,455 SF)

NOTE

- 10' FRONT PERIMETER AREAS INDICATED ON PLANS
- INTERIOR PARKING LANDSCAPE AREAS INDICATED ON PLANS (INCLUDES EXISTING LANDSCAPED AREAS AND PROPOSED SUPPLEMENTAL AREAS)

APPROVED MAY 23 2014 City of Destin Technical Review Team

Planning 14-08-SP

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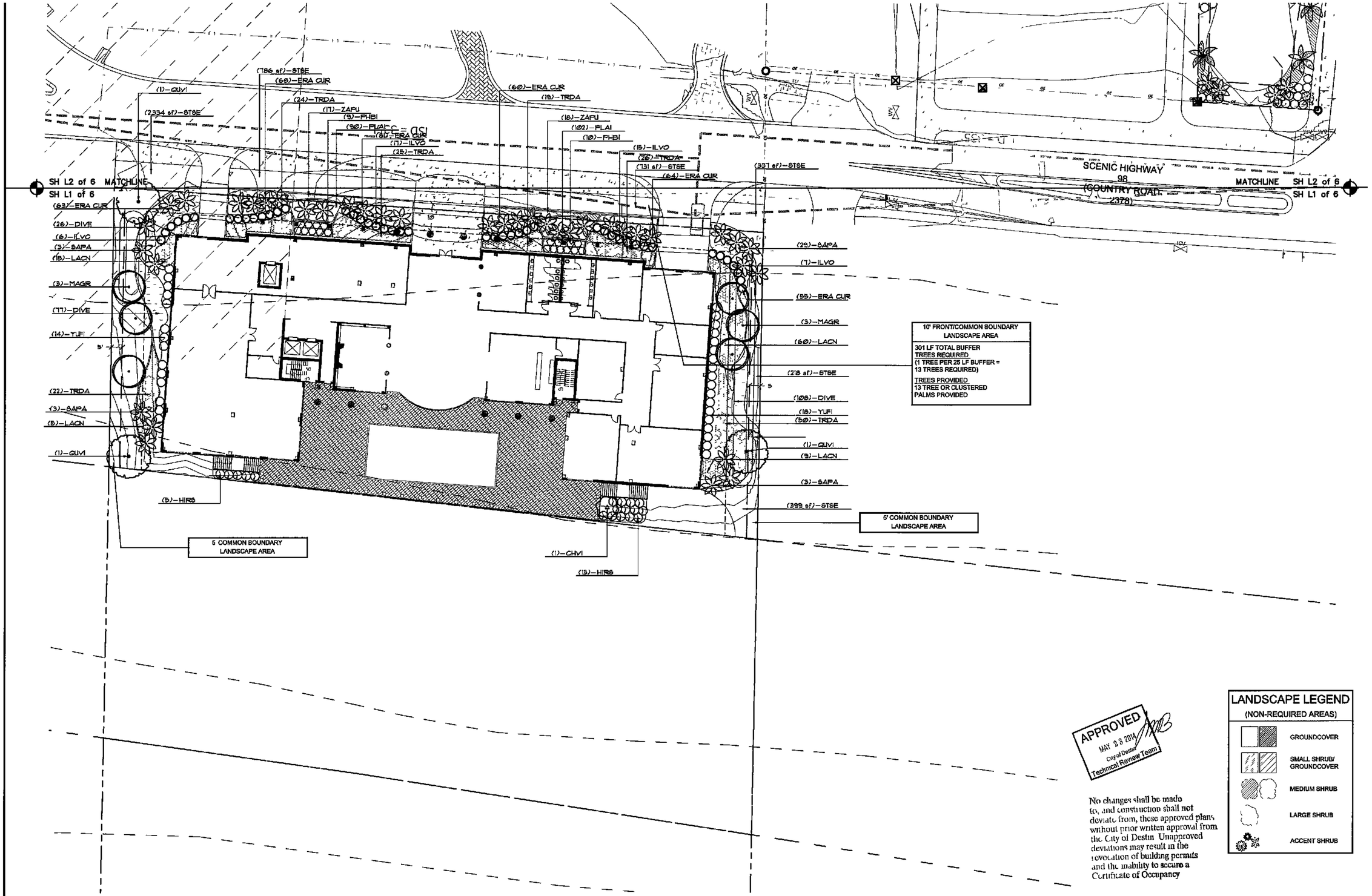
GENERAL CONSTRUCTION NOTES

1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR
2 ALL DISTURBED AREAS AND PROPOSED GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE MULCHED AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER, UNLESS SPECIFIED OTHERWISE
3 ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES
4 THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS TO THE EXTENT NECESSARY TO DETERMINE THE EFFECTS OF SUB-SURFACE CONDITIONS ON THE WORK AND SHALL BID AND CONSTRUCT THE WORK IN ACCORDANCE WITH HIS FINDINGS
5 DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL PIPE, STRUCTURES OR DEBRIS WITHIN THE AREA OF CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT
6 CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AND ALL AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION
7 CONTRACTOR SHALL RESTORE DAMAGED FINISHES AND REPLACE DAMAGED OR DEFECTIVE UNITS
8 CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR TIMING OF AND RESPONSIBILITY OF DEMOLITION OPERATIONS

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INTERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg



APPROVED
MAY 22 2014
City of Destin
Technical Review Team

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LANDSCAPE LEGEND
(NON-REQUIRED AREAS)

- GROUNDCOVER
- SMALL SHRUB/ GROUNDCOVER
- MEDIUM SHRUB
- LARGE SHRUB
- ACCENT SHRUB

0' 20' 40' 60' 80'
SCALE 1" - 20'-0"

NORTH

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INNERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

PLAN IS SUBJECT TO CHANGE

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850 391 0350 ■ Fax 850.386 1010 ■ www.woodandpartners.com

Dunavant Gulf, LLC
2705 Scenic Highway 89
Destin, Florida

LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

MARK L. BAKER, RLA, ASLA
FLORIDA CERTIFICATION NO. 0666778
5-28-14
DATE

DRAWN BY MM/TG/PH
CHECKED BY TG/SK

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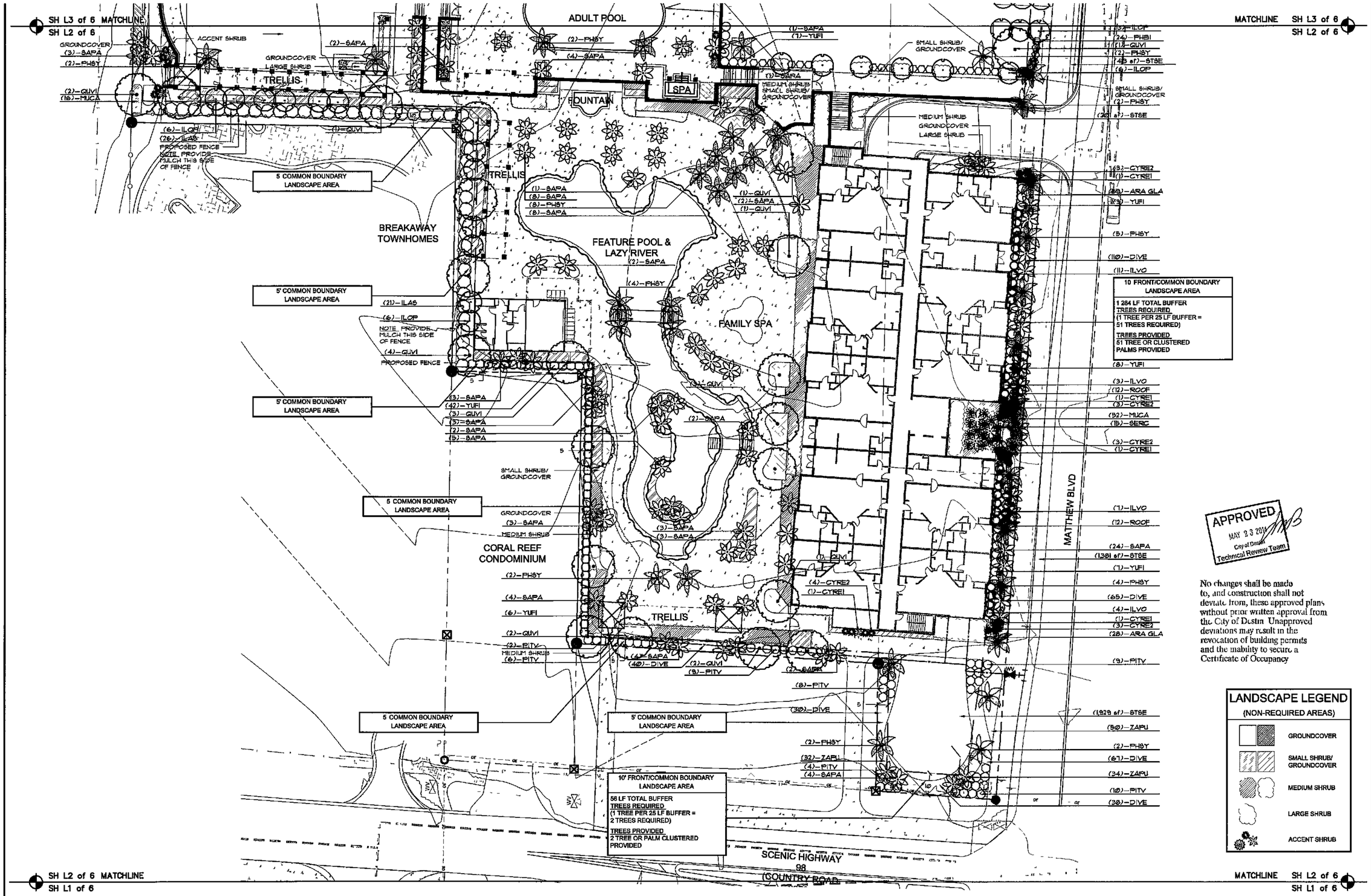
#	REVISION	DATE	BY
1	SUBMITTAL REVISION	03 19 14	PH
2	SUBMITTAL REVISION	05 09 14	SK

DATE
03-25-2014
PROJECT NUMBER
02-12016
SHEET TITLE
Landscape Plan

SHEET NUMBER
L1of 6



APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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(NON-REQUIRED AREAS)

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SCALE 1" - 20'-0"

NORTH

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FLORIDA CERTIFICATION NO. 0000776
12-29-14
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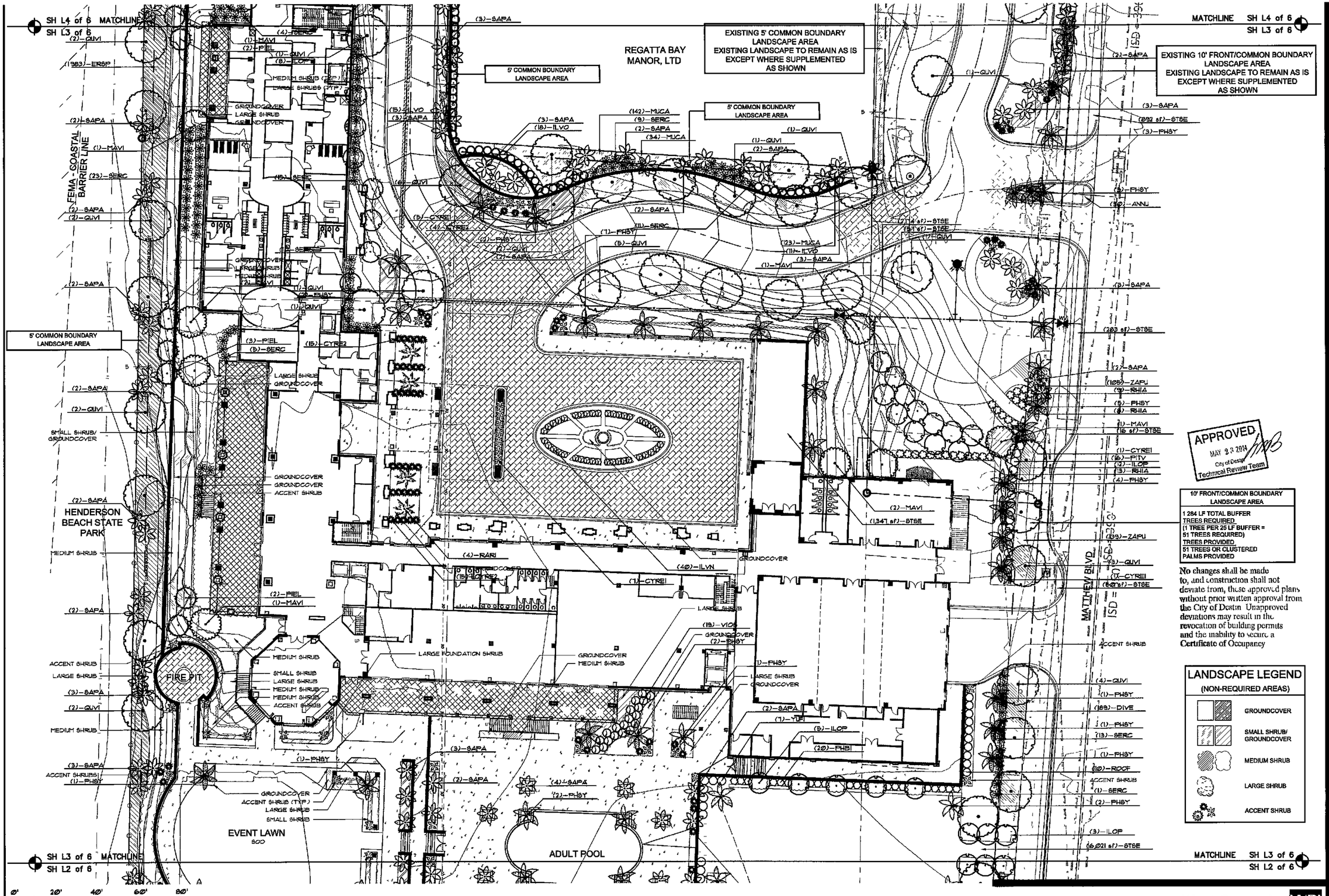
SHEET TITLE
Landscape Plan

SHEET NUMBER
L2of 6



APPROVED
MAY 23 2014
City of Destin
Technical Review Team

10' FRONT/COMMON BOUNDARY LANDSCAPE AREA
1 284 LF TOTAL BUFFER
TREES REQUIRED
(1 TREE PER 25 LF BUFFER = 51 TREES REQUIRED)
TREES PROVIDED
51 TREES OR CLUSTERED PALMS PROVIDED

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LANDSCAPE LEGEND
(NON-REQUIRED AREAS)

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- SMALL SHRUB/ GROUNDCOVER
- MEDIUM SHRUB
- LARGE SHRUB
- ACCENT SHRUB

0' 20' 40' 60' 80'

SCALE 1" - 20'-0"

NORTH

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INNERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

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MARK L. BAKER, RLA, ASLA
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5.28.15
DATE

DRAWN BY MN/TG/PH
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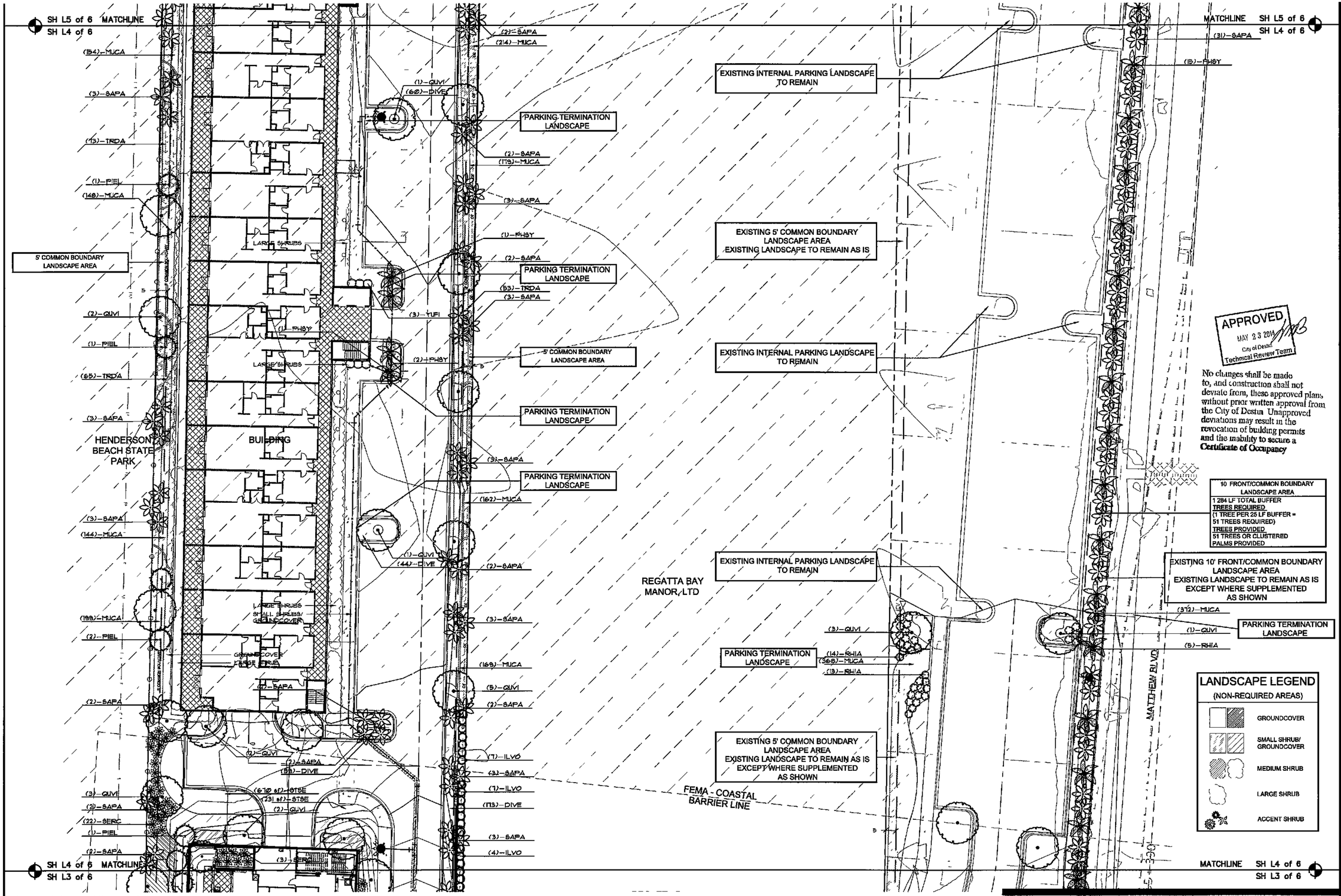
PROJECT NUMBER
02-12016
SHEET TITLE
Landscape Plan

SHEET NUMBER
L3 of 6



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PLAN IS SUBJECT TO CHANGE

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HENDERSON BEACH RESORT
Okaloosa County, Florida

MARK L. BAKER, ALA, ASLA
FLORIDA CERTIFICATION NO. 0005776
5-28-14
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Wood+Partners Inc. WPI
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850 391 0360 ■ Fax 850 386 1010 ■ www.woodandpartners.com

SHEET NUMBER
L4 of 6

LANDSCAPE LEGEND
(NON-REQUIRED AREAS)

- GROUNDCOVER
- SMALL SHRUB/ GROUNDCOVER
- MEDIUM SHRUB
- LARGE SHRUB
- ACCENT SHRUB

APPROVED
MAY 8 2014
City of Destin
Technical Review Team

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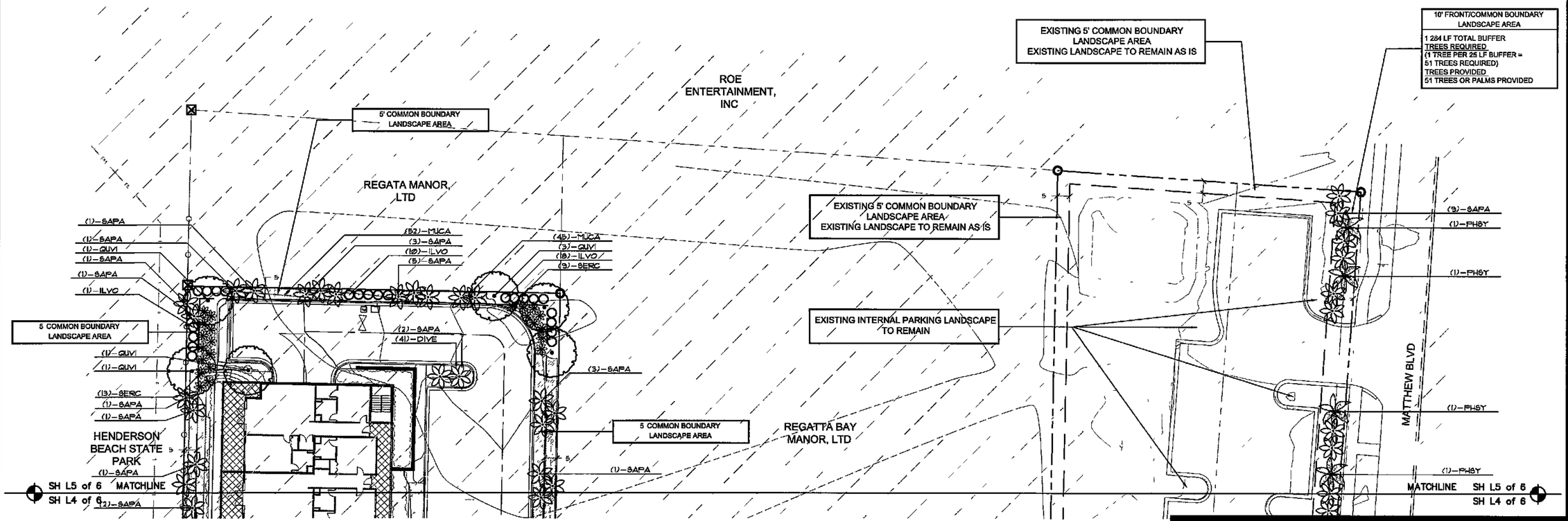

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Okaloosa County, Florida

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5-28-14
DATE

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DATE
03-25-2014
PROJECT NUMBER
02-12016
SHEET TITLE
Landscape Plan

SHEET NUMBER
L5 of 6

REFORESTATION PLANT SCHEDULE

REFORESTATION TREES REQUIRED- (1 TREE PER 1 ACRES) 11 42 TOTAL ACRES (1/ 1) = 115 TREES REQUIRED 115 (100%) NATIVE TREES PROVIDED ALL PLANTS SHALL BE FLORIDA #1 OR BETTER. ALL TREES ARE REQUIRED TO BE AT LEAST 10' TALL AND HAVE A TWO AND ONE-HALF INCH CALIPER AT THE TIME OF PLANTING

REFORESTATION TREES PROVIDED

QUAN	ABBRV	BOTANICAL/COMMON NAME	HEIGHT	SPREAD	CONT	SPACING	NOTES
1	CHVI	CHIONANTHUS VIRGINICUS WHITE FRINGETREE	10' 12'	5'-6'	CONT	AS SHOWN	2.5 CAL MIN
13	ILOP	ILEX OPACA AMERICAN HOLLY	10' 12'	5-6'	BB OR CONT	AS SHOWN	2.5 CAL MIN
6	MAGR	MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA	10' 12'	5'-6'	BB OR CONT	AS SHOWN	2.5 CAL MIN
9	MAVI	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	10' 12'	5'-6'	BB OR CONT	AS SHOWN	2.5 CAL MIN FULL TO GROUND
12	PIEL	PINUS ELLIOTTII SLASH PINE	12' 14	3'-4	BB OR CONT	AS SHOWN	3.5 CAL MIN STRONG CENTRAL LEADER MATCHED
74	QUVI	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	12' 14	4-5	BB OR CONT	AS SHOWN	3.5 CAL MIN STRONG CENTRAL LEADER, MATCHED

ADDITIONAL TREES ARE DEPICTED IN THE PLAN TO CONVEY DESIGN INTENT ONLY AND ARE NOT REQUIRED FOR PERMIT

FRONT PERIMETER PLANT SCHEDULE

FRONT PERIMETER TREE REQUIREMENTS 1 TREE PER 25 LF 1 641 LF EQUALS 66 TREES REQUIRED 66 TREES PROVIDED 54 (82%) NATIVE AND 12 (18% NON-NATIVE). ALL PLANTS SHALL BE FLORIDA #1 OR BETTER. ALL TREES ARE REQUIRED TO BE AT LEAST 10' TALL AND HAVE A TWO AND ONE-HALF INCH CALIPER AT THE TIME OF PLANTING

TREES

QUAN	ABBRV	BOTANICAL/COMMON NAME	HEIGHT	SPREAD	CONT	SPACING	NOTES
2	ILOP	ILEX OPACA AMERICAN HOLLY	10 12'	5'-6'	BB OR CONT	AS SHOWN	2.5 CAL MIN
12	PHSY	PHOENIX SYLVESTRIS SYLVESTER PALM	14 16'		BB OR CONT	AS SHOWN	10' CLEAR TRUNK
7	QUVI	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	12' 14	4-5	BB OR CONT	AS SHOWN	3.5 CAL MIN STRONG CENTRAL LEADER, MATCHED
45	SAPA	SABLE PALMETTO CABBAGE PALM	10 12' CLEAR TRUNK		BB	AS SHOWN	HURRICANE CUT SMOOTH TRUNK

NOTE SABAL PALMS HAVE BEEN CLUSTERED TO ACHIEVE REQUIRED 20-FOOT CROWN SPREAD ACTUAL QUANTITY PROVIDED IN PLAN IS TWICE THE QUANTITY PROVIDED ABOVE. ADDITIONAL TREES ARE DEPICTED IN THE PLAN TO CONVEY DESIGN INTENT ONLY AND ARE NOT REQUIRED FOR PERMIT

INTERIOR PARKING PLANT SCHEDULE

INTERIOR PARKING LANDSCAPE REQUIREMENT 1 TREE PER LANDSCAPE AREA PER 15 CONTINUOUS PARKING SPACES 8 LANDSCAPE ISLANDS PROVIDED 8 TREES PROVIDED 6 (75%) NATIVE AND 2 (25% NON-NATIVE). ALL PLANTS SHALL BE FLORIDA #1 OR BETTER.

TREES

QUAN	ABBRV	BOTANICAL/COMMON NAME	HEIGHT	SPREAD	CONT	SPACING	NOTES
2	PHSY	PHOENIX SYLVESTRIS SYLVESTER PALM	14 16'		BB OR CONT	AS SHOWN	10' CLEAR TRUNK
4	QUVI	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	12' 14	4-5'	BB OR CONT	AS SHOWN	3.5 CAL MIN STRONG CENTRAL LEADER MATCHED
2	SAPA	SABLE PALMETTO CABBAGE PALM	10 12' CLEAR TRUNK		BB	AS SHOWN	HURRICANE CUT SMOOTH TRUNK

ADDITIONAL TREES ARE DEPICTED IN THE PLAN TO CONVEY DESIGN INTENT ONLY AND ARE NOT REQUIRED FOR PERMIT

SHURBS

QUAN	ABBRV	BOTANICAL/COMMON NAME	HEIGHT	SPREAD	CONT	SPACING	NOTES
51	CYRE1	CYCAS REVOLUTA SAGO PALM	4-5'	3-4	CONT	AS SHOWN	SPECIMEN 2' WOOD
87	CYRE2	CYCAS REVOLUTA SAGO PALM	2' 3	2' 3	CONT	AS SHOWN	MATCHED FULL
18	HIRS	HIBISCUS ROSA SINENSIS HIBISCUS	2'-3	2' 3	CONT	AS SHOWN	MATCHED FULL, SPECIMENS
40	ILVN	ILEX VOMITORIA 'NANA DWARF YAUPON	12 14	12' 14	CONT	AS SHOWN	MATCHED FULL, SPECIMENS
171	ILVO	ILEX VOMITORIA SCHILLINGS' DWARF SCHILLINGS	24 -36"	24 -36	CONT	AS SHOWN	FULL PLANTS MATCHED
63	PHBI	PHILODENDRON BIPINNATIFIDUM SPLIT LEAF PHILODENDRON	18 24	24 -36"	CONT	AS SHOWN	FULL PLANTS
64	PITV	PITTOSPORUM TOBIRA 'VARIEGATA VARIEGATED PITTORSPORUM	24 -36"	18 24	CONT	AS SHOWN	FULL PLANTS
118	YUFI	YUCCA FILAMENTOSA ADAM'S NEEDLE	2'-3'	2'-3'	CONT	AS SHOWN	FULL, MATCHED SPECIMENS
62	RHIA	RHAPHIOLEPIS INDICA ALBA INDIAN HAWTHORN	18 24	18 24	CONT	AS SHOWN	FULL, MATCHED
34	ROOF	ROSMARIUNUS OFFICINALIS ROSEMARY	24 -36	18 -24	CONT	AS SHOWN	FULL, MATCHED
161	SERC	SERENOA REPENS CINEREA SILVER SAW PALMETTO	24 -36	18" 24	CONT	AS SHOWN	FULL SPECIMENS
19	VIOS	VIBURNUM ODORATISSIMUM 'SWEET VIBURNUM' SWEET VIBURNUM	36 -48	24 -36	CONT	AS SHOWN	FULL SPECIMENS

GROUNDCOVERS

QUAN	ABBRV	BOTANICAL/COMMON NAME	HEIGHT	SPREAD	CONT	SPACING	NOTES
222	ANNU	ANNUALS (SELECTION BY OWNER'S REP)			1 GAL	12" O C	FULL AS SELECTED BY OWNER'S REP
87	ARA GLA	ARACHIS GLABRATA PERENNIAL PEANUT		6 -8	1 GAL	18 O C	FULL POTS
1 127	DIVE	DIETES VEGETA AFRICAN IRIS	12" 18	10" 12"	3 GAL	24 O C	FULL POTS
1 963	ERSP	ERAGROSTIS SPECTABILIS PURPLE LOVE GRASS	8 12"	8 12"	1 GAL	18 O C	FULL POTS
2,573	MUCA	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	12" 18	10 12	1 GAL	24 O C	FULL POTS
26,203 SF	STSE	STENOTAPHRUM SECUNDATUM ST AUGUSTINE					
357	TRDA	TRIPSACUM DACTYLOIDES FAKAHATCHEE GRASS	12 18	10" 12	1 GAL	24 O C	FULL POTS
395	ZAPU	ZAMIA PUMILIA COONTIE	10 12	10" 12	1 GAL	24 O C	FULL POTS
	MULCH	PINESTRAW MULCH					AREA TO BE MULCHED WITH MIN 3 COVER OF PINESTRAW MULCH

0' 20' 40' 60' 80'

SCALE 1" - 20'-0"

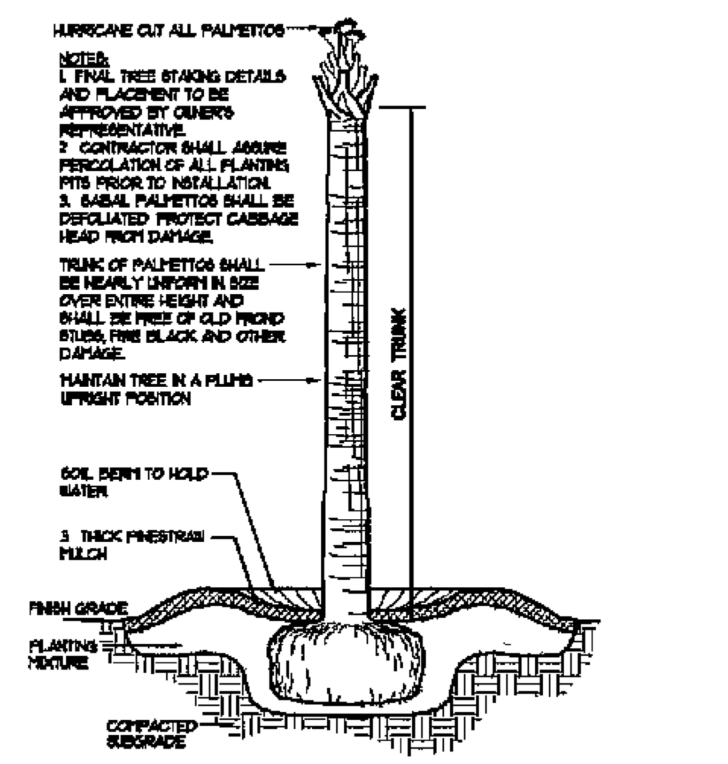
NORTH

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INNERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

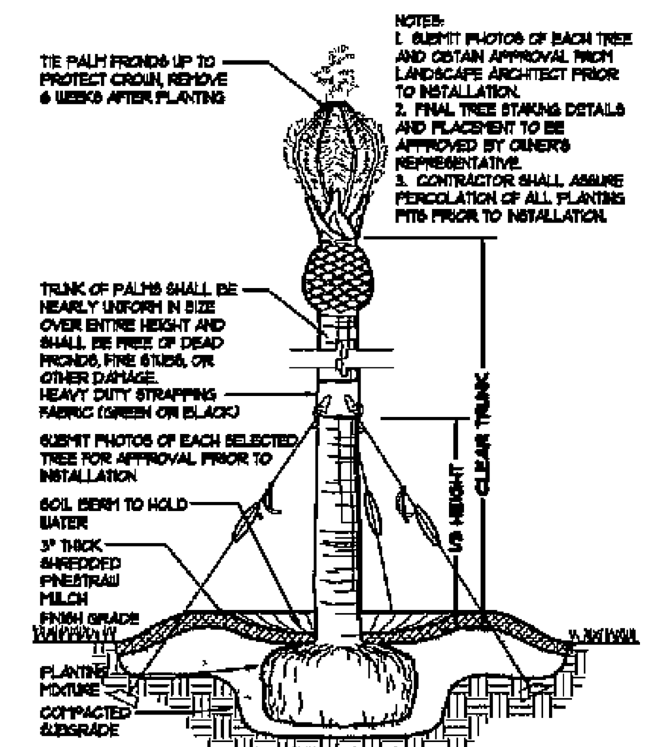
PLAN IS SUBJECT TO CHANGE

GENERAL PLANTING NOTES

1 CONTRACTOR SHALL FULLY REVIEW ALL PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION/INSTALLATION CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IF ANY DISCREPANCIES EXIST
2 CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED PRIOR TO START OF THE PROJECT
3 THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES RESPONSIBILITY FOR SAFETY ON THE PROJECT
4 ALL CONSTRUCTION SHALL CONFORM TO OR EXCEED REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT AND OTHER APPLICABLE STANDARDS AND GOVERNING AUTHORITIES ANY DEVIATION FROM THESE PLANS MUST BE SPECIFICALLY APPROVED BY OWNER'S REPRESENTATIVE
5 NOTIFY LANDSCAPE ARCHITECT OF ANY SITE CONDITIONS WHICH MAY NECESSITATE MODIFICATION TO THE PLAN OWNER'S REPRESENTATIVE SHALL, IF NECESSARY, MAKE "IN-FIELD MODIFICATIONS"
6 FINE GRADING SHALL CONSIST OF HAND RAKED SMOOTH, FREE OF DEBRIS, ALL AREAS TO REVEIVE LANDSCAPE PLANTING AND/OR PINESTRAW MULCH
7 CONTRACTOR IS RESPONSIBILE FOR INSPECTION OF EXISTING CONDITIONS AND PROMPTLY REPORTING ANY DISCREPANCIES CONTRACTOR TO PERFORM SOIL TESTS AS NECESSARY AND VERIFY SOIL SUITABILITY TO ASSURE PLANT HEALTH AND GROWTH, REPORTING UNSUITABLE SOIL CONDITIONS PRIOR TO LANDSCAPE INSTALLATION
8 CONTRACTOR SHALL VERIFY ALL EXISTING TREE CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO THEIR REMOVAL (SEE LANDSCAPE PLAN) CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN ERECT AND MAINTAIN TEMPORARY FENCING AROUND TREE PROTECTION ZONES DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL WITHIN FENCED AREA DO NOT PERMIT VEHICLES, EQUIPMENT, OR FOOT TRAFFIC WITHIN FENCED AREA DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES, UNLESS OTHERWISE INDICATED
9 CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND ANY DAMAGE HE IS RESPONSIBLE FOR THAT MAY OCCUR TO EXISTING UTILITIES
10 CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEM, COMPLETE AND INSTALLED SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, AND BACKFLOW PREVENTER AND PROVIDE 100% COVERAGE OF ALL SOD, SEED, AND PLANTING BEDS SEE IRRIGATION PLANS
11 CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANTED AREAS IN ADDITION TO IRRIGATED AREAS FOR PLANT ESTABLISHMENT THROUGH ACCEPTANCE PERIOD
12 MULCH ALL PLANTING BEDS WITH PINESTRAW TO A 3" DEPTH
13 CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED
14 PLANT SCHEDULE WAS PREPARED FOR ESTIMATING PURPOSES CONTRACTOR SHALL MAKE OWN QUANTITY TAKEOFFS USING DRAWINGS TO DETERMINE QUANTITIES TO HIS SATISFACTION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING ALL PROPOSED TREES SHALL CONFORM TO THE FLORIDA GRADES AND STANDARDS #1 GRADE OR BETTER
15 ROOT TYPE MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN, OTHER SPECIFICATIONS REMAINING UNCHANGED, EXCEPT IN THE CASE OF CONTAINER GROWN SPECIMEN TREES AS INDICATED IN THE TREE PLANTING SCHEDULE
16 CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION
17 ALL WOOD IN CONTACT WITH GROUND, UNLESS OTHERWISE SPECIFIED, SHALL BE SOUTHERN YELLOW PINE, SPIB GRADE NO 2 COMMON OR BETTER, S4S, SIZED AS SHOWN ON DRAWINGS, TREATED AWPB LP22
18 TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (INCLUDING, BUT NOT LIMITED TO, HAY BALES OR SILT FENCES) SHALL BE PLACED AT ALL INLETS, PIPES, WETLAND EDGES, AND LIMIT OF WORK AREAS WHERE SURFACE RUN-OFF OCCURS UNTIL SOIL STABILLIZATION IS COMPLETE SEE ENGINEERING PLANS FOR ADDITIONAL INFORMATION
19 CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO PREVENT SOIL EROSION AND TURBID RUNOFF INTO EXISTING WETLANDS FROM CONSTRUCTION ACTIVITY
20 MAINTENANCE REQUIREMENTS DURING CONSTRUCTION, PRIOR TO FINAL ACCEPTANCE, INCLUDES BUT IS NOT LIMITED TO PROPER WATERING, FERTILIZATION, WEEDING, PRUNING, PEST CONTROL, AND REPLACEMENT OR REPLANTING IF NECESSARY
21 CONTRACTOR SHALL PROVIDE 1 YEAR WARRANTY ON ALL MATERIALS, INCLUDING INSTALLATION OF ANY REPLACEMENT ITEMS WARRANTY BEGINS ON DATE OF FINAL ACCEPTANCE



1 PALM TREE PLANTING
L5 of 5 NOT TO SCALE



2 SPECIMEN PALM TREE PLANTING
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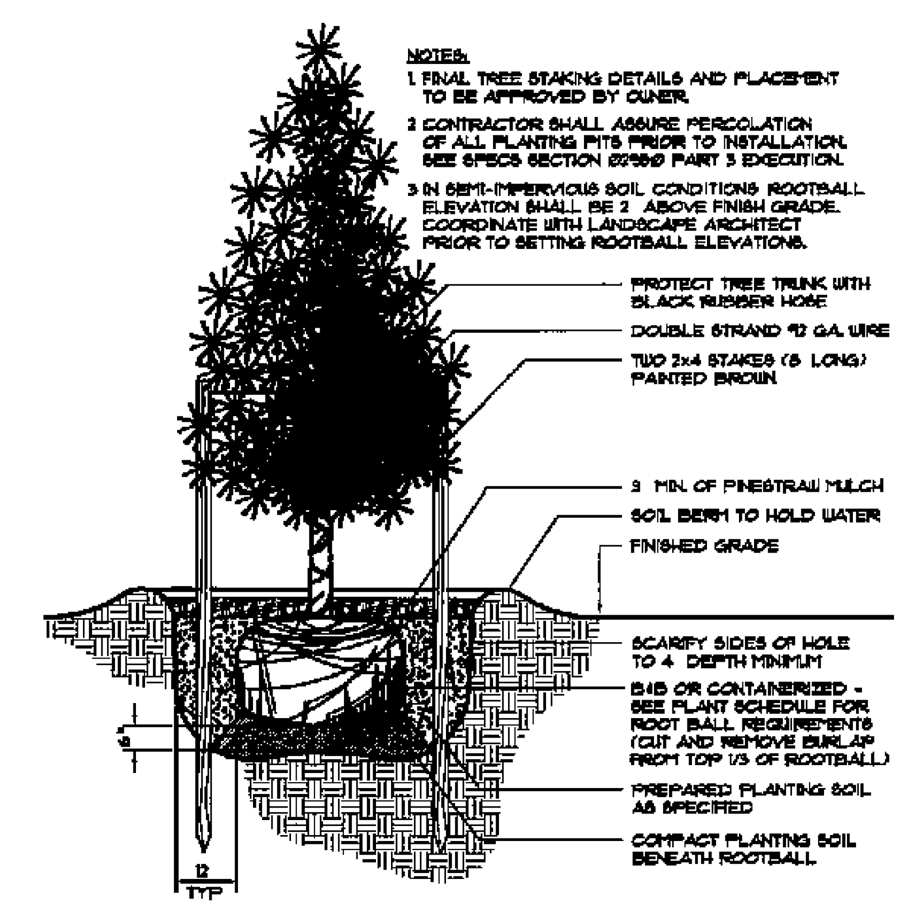
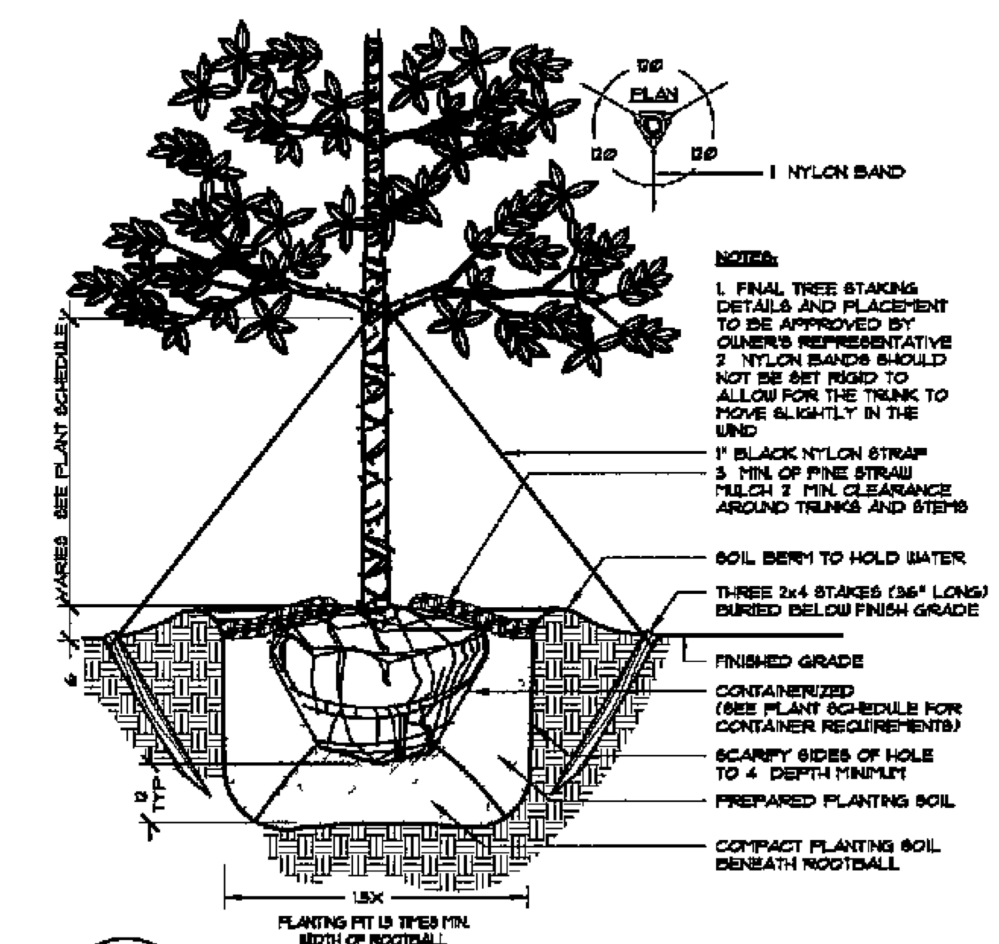


3 PINE TREE PLANTING
L5 of 5 NOT TO SCALE



4 SHADE TREE PLANTING
L5 of 5 NOT TO SCALE

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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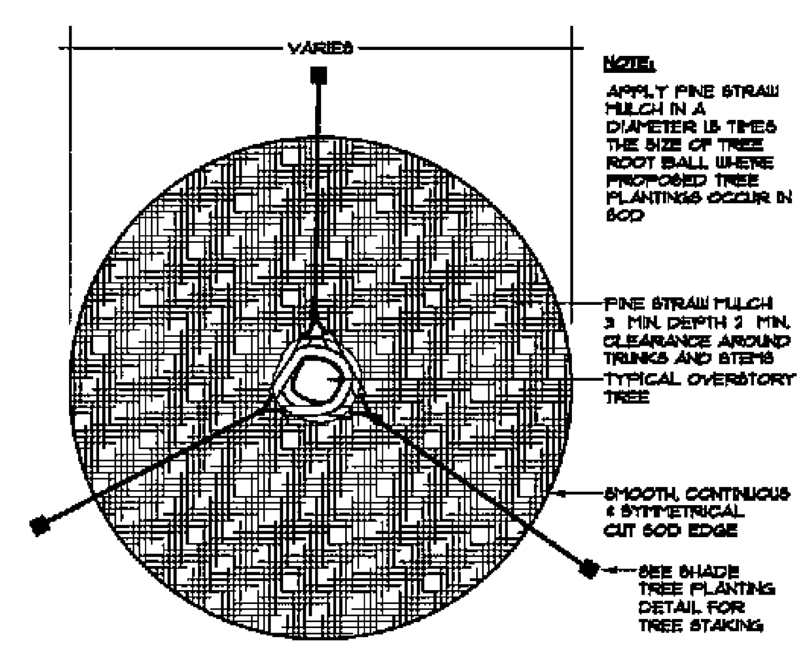
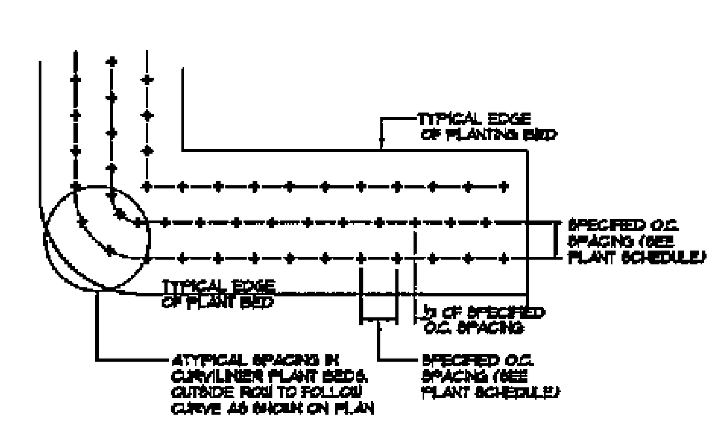
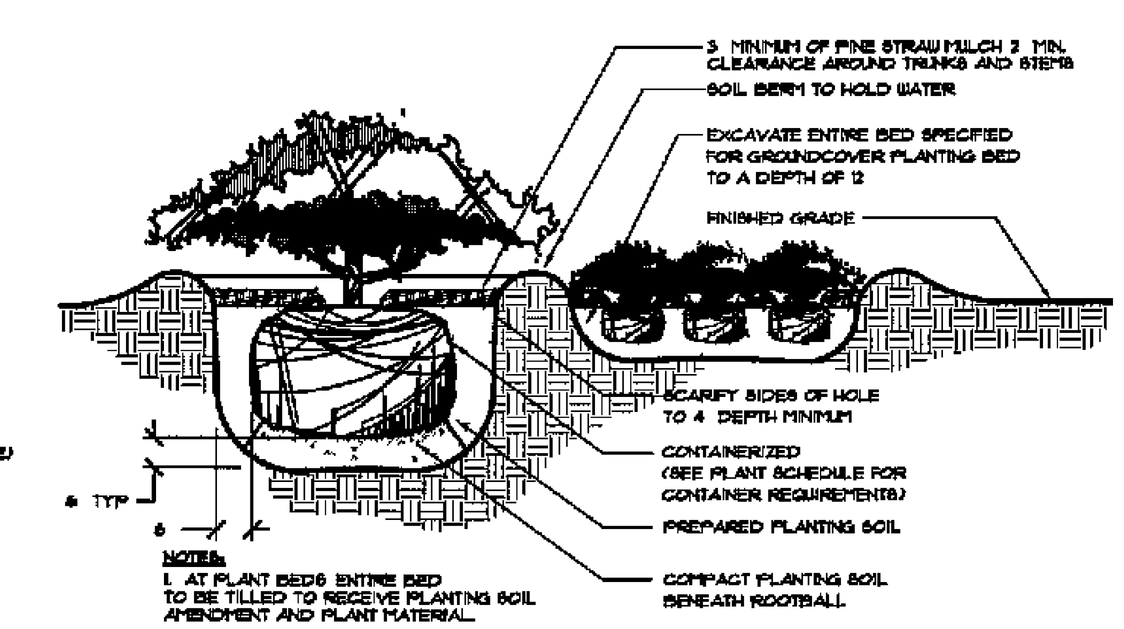


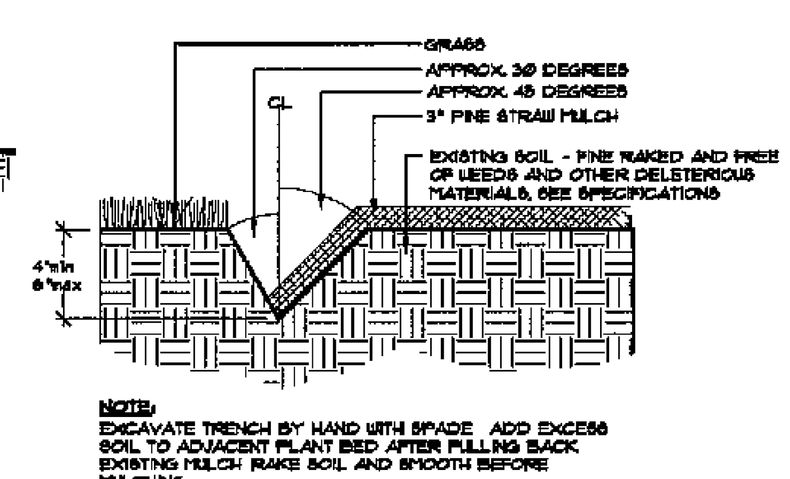
5 MULCHED TREE RING
L5 of 5 NOT TO SCALE



6 SPACING
L5 of 5 NOT TO SCALE



7 SHRUB AND GROUNDCOVER PLANTING
L5 of 5 NOT TO SCALE



8 TRENCHED EDGE
L5 of 5 NOT TO SCALE

Wood+Partners Inc. WPi
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Land Planners

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850 391 0360 ■ Fax 850 386 1010 ■ www.woodandpartners.com

Dunavant Gulf, LLC
2705 Scenic Highway 89
Destin, Florida

LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

MARK L. BAKER, RLA, ASLA
FLORIDA CERTIFICATION NO. 666776
5.23.14
DATE

DRAWN BY MM/TG/PH
CHECKED BY: TG/SK

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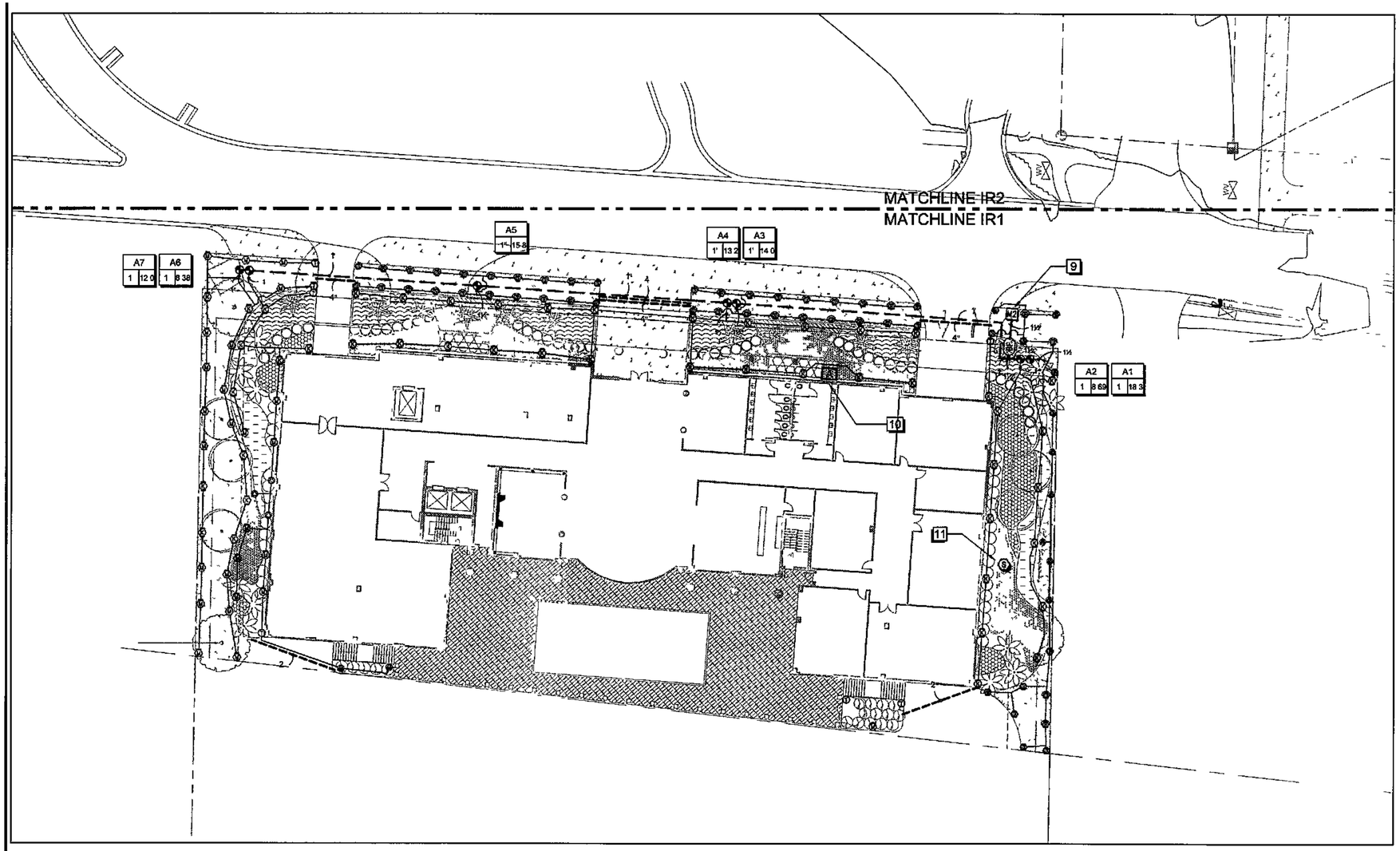
#	REVISION	DATE	BY
1	SUBMITTAL REVISION	03 18 14	PH
2	SUBMITTAL REVISION	03 08 14	SK
3	SUBMITTAL REVISION	03 21 14	SK

DATE
03-25-2014
PROJECT NUMBER
02-12016
SHEET TITLE
Landscape Details

SHEET NUMBER
L6 of 6



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
ES LCS RCS CS SS	Hunter PROS-06-PRS30-CV 5 strip spray Turf Spray 30 psi regulated 6 0" Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
Q T H F	Hunter PROS-06-PRS30-CV 8 radius Turf Spray 30 psi regulated 6 0 Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
Q T H F	Hunter PROS-06-PRS30-CV 10 radius Turf Spray 30 psi regulated 6 0 Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
Q T H TT TQ F	Hunter PROS-06-PRS30-CV 12 radius Turf Spray 30 psi regulated 6 0 Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
Q T H TT TQ F	Hunter PROS-06-PRS30-CV 15 radius Turf Spray 30 psi regulated 6 0 Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
	Hunter PROS-06-PRS30-CV ADJ Turf Spray 30 psi regulated 6 0 Pop-Up With factory installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
ES LCS RCS CS SS	Hunter PRS-12 PRS30-CV 5 strip spray Shrub Spray 30 psi regulated 12 0" Pop-Up With Factory Installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
Q T H F	Hunter PRS-12 PRS30-CV 8 radius Shrub Spray 30 psi regulated 12 0 Pop-Up With Factory Installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
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	Hunter PRS 12 PRS30-CV ADJ Shrub Spray 30 psi regulated 12 0 Pop-Up With Factory Installed Drain Check Valve Co-molded wiper seal with UV Resistant Material
M O G	Hunter MP1000 PRS-06 PRS40-CV Turf Rotator 6 (15 24 cm) pop-up with check valve pressure regulated to 40 psi (2 76 bar) MP Rotator nozzle on PRS40 body M=Maroon adj arc 90 to 210 L=Light Blue 210 to 270 arc, O=Olive 360 arc
K G R	Hunter MP2000 PRS-06 PRS40-CV Turf Rotator 6 (15 24 cm) pop-up with factory installed check valve pressure regulated to 40 psi (2 76 bar) MP Rotator nozzle on PRS40 body K=Black adj arc 90-210 G=Green adj arc 210-270 R=Red 360 arc.
B Y A	Hunter MP3000 PRS-06-PRS40-CV Turf Rotator 6 (15 24 cm) pop-up with factory installed check valve pressure regulated to 40 psi (2 76 bar) MP Rotator nozzle on PRS40 body B=Blue adj arc 90-210 Y=Yellow adj arc 210 270 A=Gray 360 arc
T	Hunter MP Corner PRS-06-PRS40-CV Turf Rotator 6 (15 24cm) pop-up with factory installed check valve pressure regulated to 40 psi (2 76 bar) MP Rotator nozzle on PRS40 body T=Turquoise adj arc 45-105
LST RST SST	Hunter MP Strip PRS-06-PRS40-CV Turf Rotator 6 (15 24 cm) pop-up with factory installed check valve pressure regulated to 40 psi (2 76 bar) MP Rotator nozzle on PRS40 body LST=Ivory left strip SST=Brown side strip RST=Copper right strip
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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ 101 25 Drip Control Zone Kit 1 ICV Globe Valve with 1 HY100 filter systems Pressure Regulation 25psi Flow Range 2 GPM to 20 GPM 150 mesh stainless steel screen
	Flush Valve 3/4 PVC ball valve in 10 valve box
	Area to Receive Dripline Hunter PLD-05-12 (12) In Line Pressure Compensating Landscape Dripline with Built-In Check Valve 0 6GPH emitters at 12 0 O C Dripline laterals spaced at 12 0 apart with emitters offset for triangular pattern UV Resistant

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Soil Moisture Sensor for Turf
2	Soil Moisture sensor for drip zones in pool areas
3	Soil Moisture sensor for mixed landscape Matthews Blvd frontage
4	Soil Moisture sensor mixed landscape sod perimeter
5	Install 2 service line from water main to 2 meter 2 to the 2 RPS backflow preventer All work to be done in accordance to the water purveyors requirements Irrigation system requirements are 70 gpm at 75 psi static water pressure Verify available flow and static pressure prior to construction Notify owners representative if either are insufficient
6	Coordinate exact controller location with owners representative Provide 120VAC 10amp power to controller from dedicated circuit See plan notes details and manufacturer installation instructions for further requirements
7	All 2 wire control wire not located next to the mainline pipe to be in 1 PVC electrical conduit
8	Pipe location is diagrammatic Install mainline and lateral pipe 24 off of the hardscape or curb back
9	Irrigation system water source to be 1 service line 3/4 meter 1 1/2 pipe to 3/4 RPZ backflow preventer System requires 16 gpm at a static pressure of 54 psi Verify available flow and pressure prior to construction Notify owners representative if either is insufficient
10	Coordinate exact controller location with the owners representative Provide 120vac 10 amp power to controller from a dedicated circuit Install controller as per notes details and manufacturers requirements
11	Coordinate exact location of climate sensor with owners representative Install and program sensor as per plan details notes and manufacturers installation requirements

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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0 20 40 60 feet
SCALE 1 = 20'

NORTH

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INTERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

PLAN IS SUBJECT TO CHANGE

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F 706-356-1948

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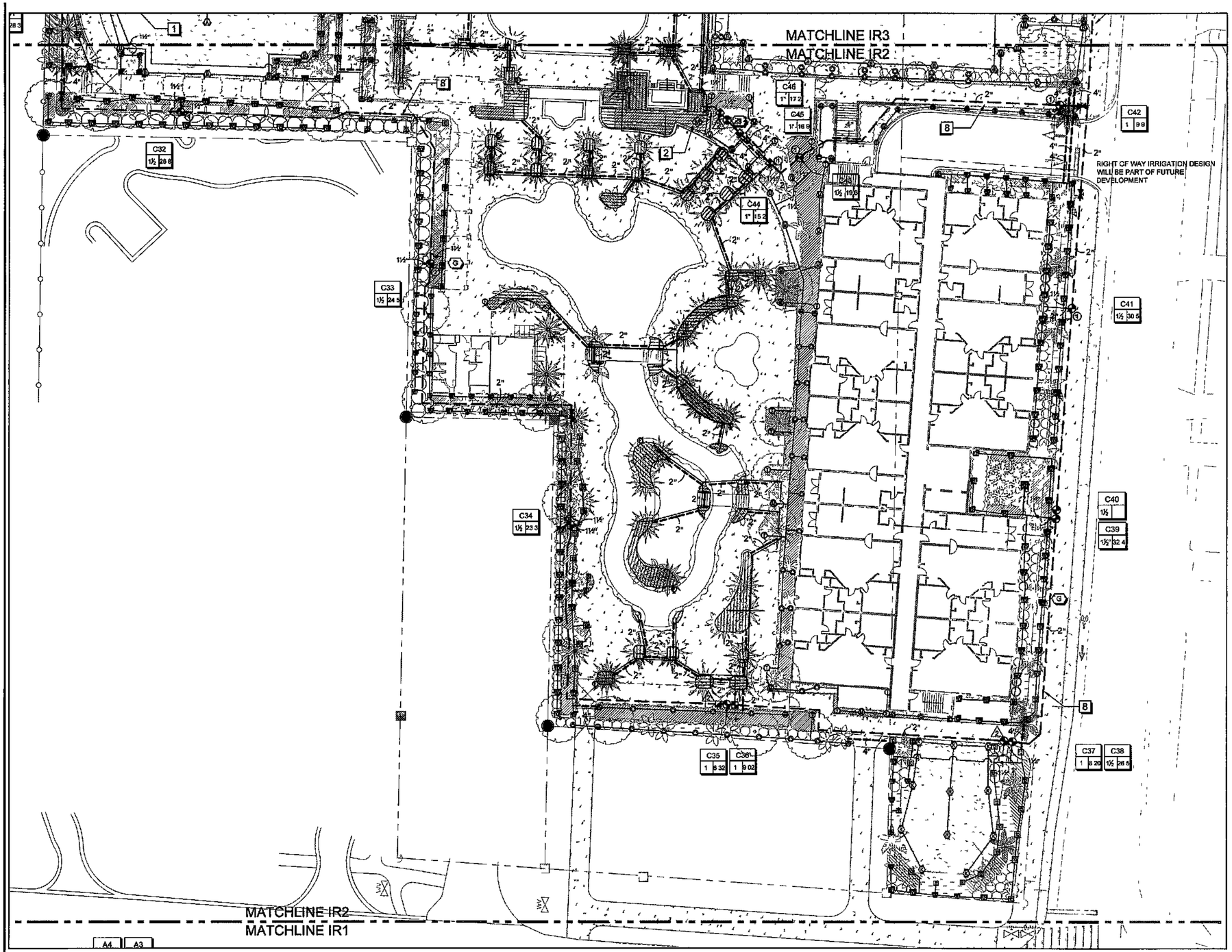
LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	05.19.14	MO

DATE
11-15-2013
PROJECT NO.
DRAWN BY
CHECKED BY
IRRIGATION PLAN

SHEET NUMBER
IR1 of 7



IRRIGATION SCHEDULE

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ 101 25 Drip Control Zone Kit 1 ICV Globe Valve with 1 HY100 filter system Pressure Regulation 25psi Flow Range 2 GPM to 20 GPM 150 mesh stainless steel screen
F	Flush Valve 3/4 PVC ball valve in 10 valve box
	Area to Receive Dripline Hunter PLD-06-12 (12) In Line Pressure Compensating Landscape Dripline with Built In Check Valve 0 6GPH emitters at 12 0 O C Dripline laterals spaced at 12 0 apart with emitters offset for triangular pattern UV Resistant

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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SCALE 1" = 20'
0 20 40 60 feet

NORTH

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PLAN IS SUBJECT TO CHANGE

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Sustaining Landscapes Conserving Water
P O Box 693
Lavonia Ga 30553
O 706-356-0309
F 706-356-1948

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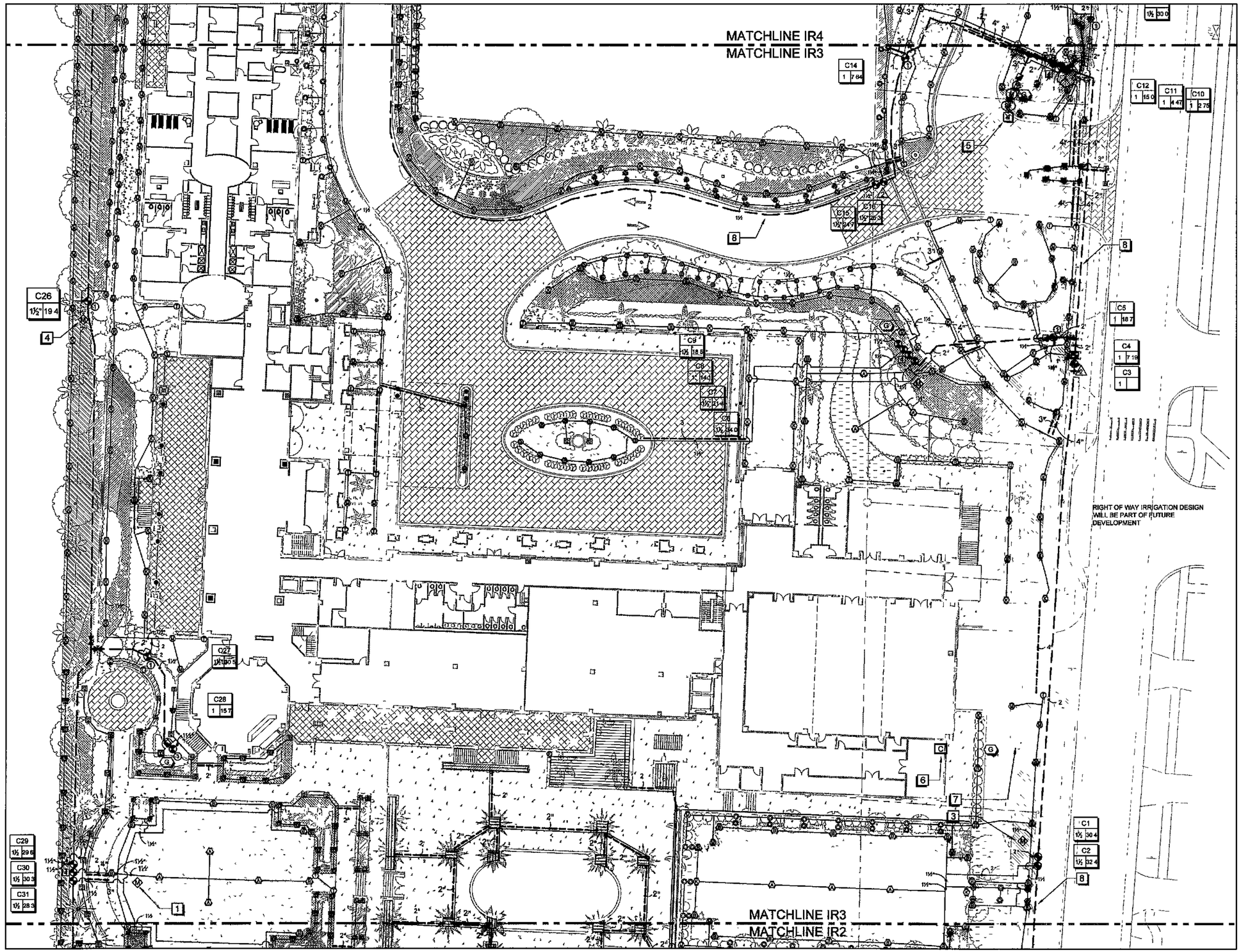
LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	05/23/14	MC

DATE
11-15-2013
PROJECT NUMBER
02-12
SHEET TITLE
IRRIGATION

SHEET NUMBER
IR2 of 7



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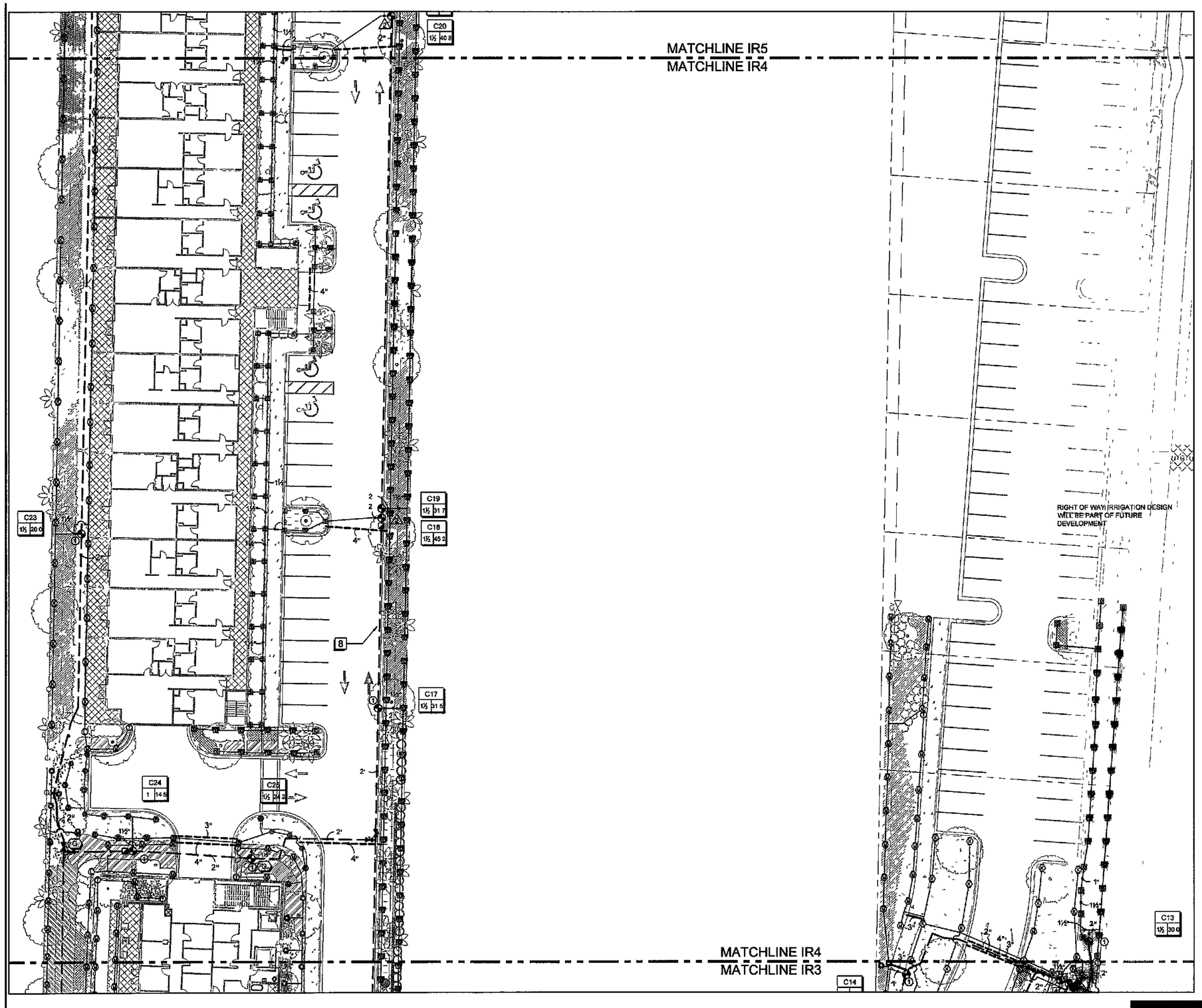
LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	03.18.14	MC

SHEET TITLE
IRRIGATION PLAN

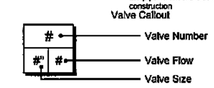
SHEET NUMBER
IR3 of 7



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G 1 1 1/2 2 and 3 Plastic Electric Remote Control Valves Globe Configuration with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use
	Hunter HQ-44LRC-AW Quick coupler valve yellow rubber locking cover red brass and stainless steel with 1 NPT inlet 2 piece body Acme Key with Anti-Rotation Wings
	Matco-Norca 770S PVC White Ball Valve for Sch 40 and Sch 80 Pipe solvent slip ends with "T" Handle same size as mainline 1/2 to 4
M	Hunter IBV 2 1 1 1/2 2 and 3 Brass Electric Master Valve Globe Configuration with NPT Threaded Inlet/Outlet for Commercial/Municipal Use
BF	Watts 909 2 Reduced Pressure Backflow Preventer
C	Baseline BL 1000X Two-wire controller in large 16 gauge powder-coated wall mount cabinet, base model 50 stations expandable to 75 or 100 stations
F	Baseline BL PFS150 Two-wire ready 1 1/2 PVC Flow Sensor with integrated flow decoder
M	Baseline BL 5315B 1 5 direct burial biSensor with 50 connection wires
1	Baseline BL 5201 Single station direct burial biCoder
2	Baseline BL 5202 Two station direct burial biCoder
4	Baseline BL 5204 Four station direct burial biCoder
G	2 Wire Grounding Point Baseline LA-01 lightning arrester & ground rod with 8 of #6 bare copper pre-welded to the rod 10 valve box over ground rod and lightning arrestor
	Irrigation Lateral Line PVC Class 200 SDR 21 PVC Class 200 irrigation pipe Only lateral transmon pipe sizes 1 1/2 and above are indicated on the plan with all others being 1 in size
	Irrigation Mainline PVC Class 200 SDR 21 PVC Class 200 irrigation pipe
	Pipe Sleeve PVC Schedule 40 Typical pipe sleeve for irrigation pipe Pipe sleeve size shall 2 times the size of the pipe within the sleeve Extend sleeves 18 inches beyond edges of paving or construction

Valve Callout



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
1	Soil Moisture Sensor for Turf	
2	Soil Moisture sensor for drop zones in pool areas	
3	Soil Moisture sensor for mixed landscape Matthews Blvd frontage	
4	Soil Moisture sensor mixed landscape site perimeter	
5	Install 2 service line from water main to 2 meter 2 to the 2 RPS backflow preventer All work to be done in accordance to the water purveyors requirements Irrigation system requirements are 70 gpm at 75 psi static water pressure Verify available flow and static pressure prior to construction Notify owners representative if either are insufficient	
6	Coordinate exact controller location with owners representative Provide 120VAC 10amp power to controller from dedicated circuit See plan notes details and manufacturer installation instructions for further requirements	
7	All 2 wire control wire not located next to the mainline pipe to be in 1 PVC electrical conduit	
8	Pipe location is diagrammatic Install mainline and lateral pipe 24 off of the hardscape or curb back	
9	Irrigation system water source to be 1 service line 3/4 meter 1 1/2 pipe to 3/4 RPZ backflow preventer System requires 18 gpm at a static pressure of 84 psi Verify available flow and pressure prior to construction Notify owners representative if either is insufficient	
10	Coordinate exact controller location with the owners representative Provide 120vac 10 amp power to controller from a dedicated circuit Install controller as per notes details and manufacturers requirements	
11	Coordinate exact location of climate sensor with owners representative Install and program sensor as per plan details notes and manufacturers installation requirements	

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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0 20 40 60 feet
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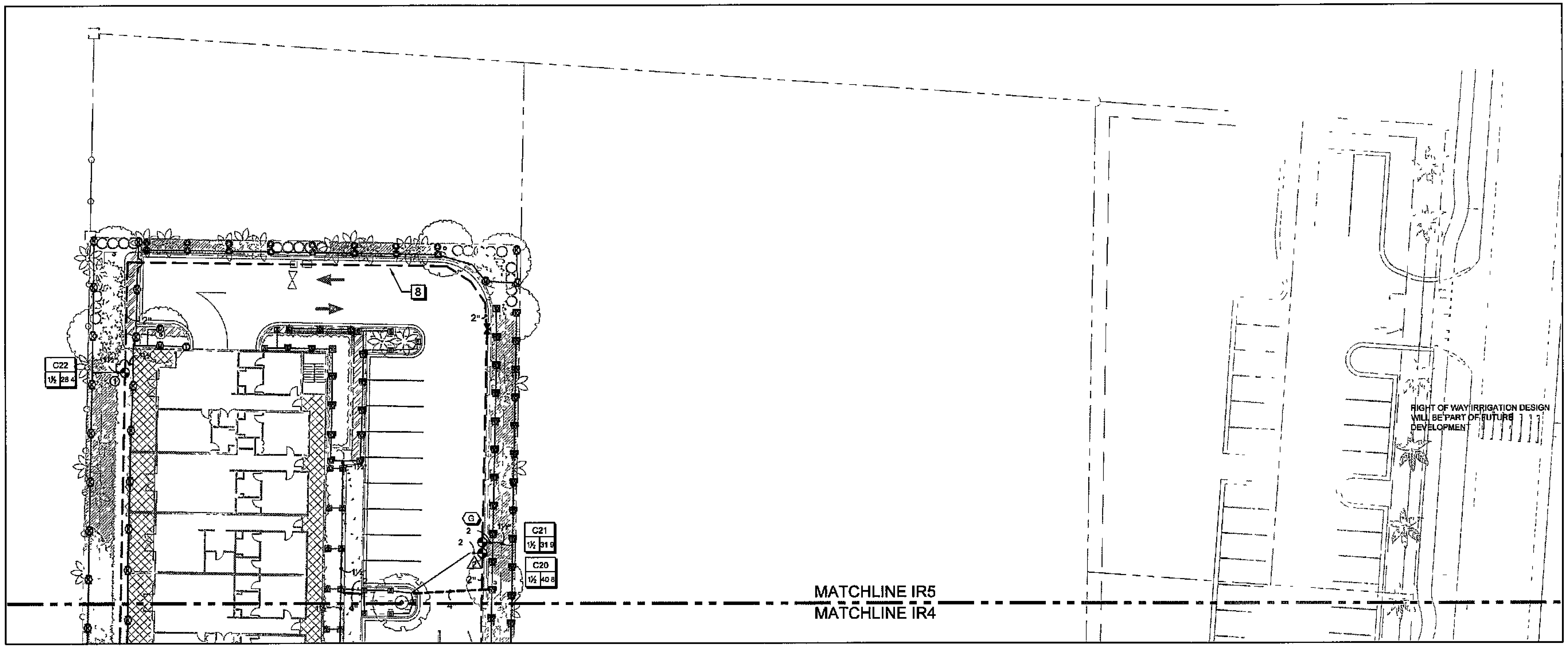
Transwestern Development Co., LLC
27705 Emerald Coast Parkway, Ste
Destin, Florida 32541
(850) 837-7260

LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

DRAWN BY: MDC
CHECKED BY: TGSR

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	05.19.14	MC

SHEET NUMBER
IR4 of 7



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
A1	Hunter ICV-G	1	Turf Spray	34 58	50 96	18 33	1 55 in/h
A2	Hunter ICV G	1	Shrub Rotary	43 06	54 74	8 69	0 34 in/h
A3	Hunter ICV-G	1	Turf Spray	33 16	50 29	14 00	1 63 in/h
A4	Hunter ICV G	1	Shrub Rotary	43 74	60 18	13 21	0 39 in/h
A5	Hunter ICV-G	1	Turf Spray	33 12	55 25	15 76	1 74 in/h
A6	Hunter ICV-G	1	Shrub Rotary	43 37	57 61	8 36	0 43 in/h
A7	Hunter ICV-G	1	Turf Rotary	43 29	62 09	12 03	0 46 in/h
C1	Hunter ICV-G	1 1/2	Shrub Rotary	43 31	67 54	30 38	0 59 in/h
C2	Hunter ICV-G	1 1/2	Turf Rotary	43 11	67 31	32 37	0 52 in/h
C3	Hunter ICV-G	1		2	27 46	0 00	Unknown
C4	Hunter ICV-G	1	Shrub Rotary	42 93	68 51	7 19	0 42 in/h
C5	Hunter ICV-G	1	Turf Rotary	44 21	69 87	16 69	0 39 in/h
C6	Hunter ICV-G	1 1/2	Shrub Rotary	42 32	68 20	33 96	0 48 in/h
C7	Hunter ICV-G	1 1/2	Turf Spray	33 17	59 08	21 37	1 61 in/h
C8	Hunter ICV-G	1	Turf Spray	33 99	59 92	14 12	1 47 in/h
C9	Hunter ICV-G	1 1/2	Shrub Rotary	42 47	68 43	16 45	0 44 in/h
C10	Hunter ICV-G	1	Shrub Spray	32 29	58 69	2 75	1 20 in/h
C11	Hunter ICV-G	1	Shrub Rotary	42 48	68 88	4 47	0 51 in/h
C12	Hunter ICV-G	1	Turf Rotary	43 79	70 23	14 98	0 38 in/h
C13	Hunter ICV-G	1 1/2	Shrub Spray	32 97	59 47	30 04	1 51 in/h
C14	Hunter ICV-G	1	Shrub Rotary	43 11	55 35	7 64	0 32 in/h
C15	Hunter ICV-G	1 1/2	Turf Spray	32 87	45 50	24 70	3 06 in/h
C16	Hunter ICV G	1 1/2	Shrub Rotary	43 36	55 95	25 30	0 43 in/h
C17	Hunter ICV G	1 1/2	Shrub Spray	32 89	54 31	31 49	1 59 in/h
C18	Hunter ICV-G	1 1/2	Shrub Spray	33 58	54 50	45 20	1 86 in/h
C19	Hunter ICV-G	1 1/2	Shrub Spray	32 26	53 16	31 68	1 64 in/h
C20	Hunter ICV-G	1 1/2	Shrub Spray	33 03	52 65	40 80	1 80 in/h
C21	Hunter ICV G	1 1/2	Shrub Spray	31 92	51 52	31 90	1 65 in/h
C22	Hunter ICV G	1 1/2	Shrub Rotary	42 59	60 64	26 41	0 53 in/h
C23	Hunter ICV G	1 1/2	Shrub Rotary	41 87	58 18	19 97	0 46 in/h
C24	Hunter ICV G	1	Turf Spray	33 22	48 62	14 46	1 41 in/h
C25	Hunter ICV-G	1 1/2	Shrub Rotary	43 66	58 67	24 16	0 55 in/h
C26	Hunter ICV-G	1 1/2	Shrub Rotary	42 20	58 66	19 45	0 27 in/h
C27	Hunter ICV-G	1 1/2	Shrub Rotary	44 07	61 64	30 51	0 35 in/h
C28	Hunter ICV-G	1	Shrub Spray	33 23	61 05	15 66	1 23 in/h
C29	Hunter ICV G	1 1/2	Shrub Spray	32 01	49 99	29 61	1 32 in/h
C30	Hunter ICV G	1 1/2	Turf Rotary	42 49	60 50	30 33	0 55 in/h
C31	Hunter ICV G	1 1/2	Shrub Spray	34 14	52 17	28 35	1 67 in/h
C32	Hunter ICV G	1 1/2	Shrub Spray	32 43	51 04	26 81	1 45 in/h
C33	Hunter ICV G	1 1/2	Shrub Spray	32 52	52 10	24 52	1 29 in/h
C34	Hunter ICV G	1 1/2	Shrub Spray	31 91	52 53	23 30	1 61 in/h
C35	Hunter ICV G	1	Shrub Rotary	42 70	64 16	6 32	0 54 in/h
C36	Hunter ICZ 101-25	1	Area for Dripline	29 71	51 18	9 02	1 01 in/h
C37	Hunter ICV G	1	Turf Rotary	43 09	65 30	8 20	0 41 in/h
C38	Hunter ICV G	1 1/2	Shrub Spray	32 55	54 78	28 47	1 56 in/h
C39	Hunter ICV G	1 1/2	Shrub Spray	32 70	55 56	32 36	1 39 in/h
C40	Hunter ICV G	1 1/2			22 88	0 00	Unknown
C41	Hunter ICV G	1 1/2	Shrub Spray	32 62	56 00	30 54	1 47 in/h
C42	Hunter ICV G	1	Turf Spray	33 40	57 37	9 94	1 80 in/h
C43	Hunter ICV G	1 1/2	Shrub Rotary	44 05	68 83	19 63	0 50 in/h
C44	Hunter ICZ 101 25	1	Area for Dripline	39 14	64 04	15 24	1 01 in/h
C45	Hunter ICV G	1		33 84	58 91	16 94	1 51 in/h
C46	Hunter ICZ 101 25	1	Area for Dripline	44 99	70 09	17 22	1 01 in/h

CRITICAL ANALYSIS

Generated	2013-11 11 14 46
P O C NUMBER 01	
Water Source Information	
FLOW AVAILABLE	
Water Meter Size	2
Flow Available	84 69 gpm
PRESSURE AVAILABLE	
Static Pressure at POC	80 00 psi
Elevation Change	5 00 ft
Service Line Size	2
Length of Service Line	10 00 ft
Pressure Available	77 00 psi
DESIGN ANALYSIS	
Maximum Multi valve Flow	60 00 gpm
Flow Available at POC	84 69 gpm
Residual Flow Available	24 69 gpm
Critical Station	C7
Design Pressure	40 00 psi
Loss Elev high head to valve	0 00 psi
Pipe Loss Critical Head	1 43 psi
Loss Fitting Factor	0 14 psi
Loss through Valve	3 00 psi
Pressure Req at Critical Station	44 58 psi
Loss for Fittings	1 78 psi
Loss for Main Line	17 88 psi
Loss for POC to Valve Elevation	0 00 psi
Loss for Backflow	7 32 psi
Loss for Master Valve	1 70 psi
Loss for Water Meter	2 70 psi
Critical Station Pressure at POC	75 97 psi
Pressure Available	77 00 psi
Residual Pressure Available	1 03 psi

TWO WIRE CONTROL SYSTEM NOTES

1 ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBR\Y-6 OR BETTER
2 ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBR\Y-6 OR BETTER
3 ALL GROUNDING POINTS TO HAVE BL-LA01 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS AND INSTALLED AS PER DETAIL
4 RAIN SENSOR TO BE WIRED TO DECODER WIRE WITH BL 5402 PAUSE BICODER
5 ALL BASELINE PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS
6 IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BASELINE INSTALLATION TRAINING PRIOR TO PROJECT START NOTIFY IRRIGATION CONSULTANT WHEN TRAINING HAS BEEN COMPLETED
7 IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS NECESSARY TO OBTAIN BASELINE EXTENDED 5 YEAR WARRANTEE PROVIDE 5 YEAR WARRANTEE PRIOR TO SUBSTANTIAL COMPLETION
8 IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF AS NEEDED ON THE OPERATION AND MAINTENANCE OF BASELINE CONTROL SYSTEM
9 IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF BASELINE CONTROL SYSTEM FOR 6 MONTHS FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM OPERATIONAL DAYS AND RUN TIMES PER ZONE
10 EACH CONTROLLER PROGRAM TO BE ASSOCIATED TO THE SPECIFIC MOISTURE SENSOR FOR THAT AREA ONCE PLANT MATERIAL HAS GROWN IN OPERATE SYSTEM BASED ON MOISTURE SENSOR OPERATION
11 CONTROLLER AND FLOW SENSOR ARE TO BE PROGRAMMED FOR FLOW MAXIMIZATION

IRRIGATION SYSTEM MANAGEMENT NOTES

1 MAXIMUM VELOCITY IN THE PIPING SYSTEM NOT TO EXCEED 5 FEET PER SECOND
2 IRRIGATION CONTRACTOR TO PROGRAM CONTROLLER FOR PLANT MATERIAL GROW IN AS PER LANDSCAPE REQUIREMENTS ADJUSTMENTS TO BE MADE TO IRRIGATION SCHEDULE EVERY TWO WEEKS UNTIL SET FOR MOISTURE SENSOR MANAGEMENT
3 AFTER GROW IN OPERATE THE IRRIGATION SYSTEM VIA LOWER MOISTURE THRESHOLD PARAMETERS ADJUST LOWER MOISTURE THRESHOLD TO ENSURE PLANT MATERIAL REMAIN HEALTHY WHILE USING AS LITTLE WATER AS POSSIBLE
4 CONTRACTOR TO MAKE A MINIMUM OF 3 VISITS TO THE SITE AFTER CONTROL SYSTEM IS SET TO MOISTURE SENSOR MANAGEMENT TO REVIEW SOIL MOISTURE LEVELS THROUGHOUT THE SITE AND ADJUST THE CONTROL SYSTEM ACCORDINGLY TO MAINTAIN THE LANDSCAPE WHILE REDUCING WATER USE CONTRACTOR TO SUBMIT IN WRITING THE OUTCOME OF EACH VISIT TO THE OWNER OR OWNERS REPRESENTATIVE LANDSCAPE ARCHITECT AND OR IRRIGATION CONSULTANT

DRIP ZONE NOTES

1 IT IS IRRIGATION CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EACH PLANT IS WITHIN THE DRIPLINE WETTED PATTERN ON NO LESS THAN 2 SIDES
2 DRIPLINE TO BE LAID OUT AND INSTALLED AS DETAIL EXAMPLES
3 DRIPLINE TO BE INSTALLED IN GRID FASHION WITH TUBING ON 18" CENTERS ELBOWS AND TEES ARE TO BE USED FOR CHANGES IN DIRECTION LOOPING OF DRIPLINE IS NOT ACCEPTABLE
4 DRIPLINE IS TO BE INSTALLED TESTED AND INSPECTED TO ENSURE EACH EMITTER FUNCTIONS PROPERLY PRIOR TO COVERING WITH MULCH
5 ALL DRIPLINE SUPPLY PIPING TO BE CL 200 PVC
6 ALL PIPING WITHIN A DRIP ZONE THAT IS UNDER THE HARDSCAPE TO BE CL 200 PVC
7 DRIPLINE TO BE STAKED DOWN EVERY 3 AND WITHIN 1 OF ALL FITTING OUTLETS
8 ALL FLUSH VALVES ARE TO BE INSPECTED FOR PROPER OPERATION
9 IRRIGATION CONTRACTOR TO MEET WITH DRIP COMPONENT MANUFACTURERS REPRESENTATIVE AND OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION TO REVIEW DRIP COMPONENT CONSTRUCTION OPERATION AND MAINTENANCE

CONTROLLER INSTALLATION NOTES

1 IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE
2 PROVIDE 120VAC 10 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION
3 IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER SUPPLY AS PER PREVAILING CODE
4 CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING METALLIC FASTENERS MADE FOR WALL TYPE
5 ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT
6 IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS
7 CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS

APPROVED
MAY 2 3 2014
City of Destin
Technical Review Team

No changes shall be made to and construction shall not deviate from, these approved plans without prior written approval from the City of Destin Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

0 20 40 60 feet
SCALE 1 = 20'

NORTH

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INTERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

PLAN IS SUBJECT TO CHANGE

Dunavant Gulf, LLC
Scenic Highway 98
Destin, Florida

LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	03.18.14	MC

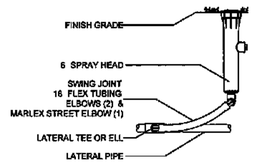
DATE
11-15-2013

IRRIGATION PLAN

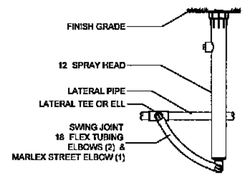
Clark Irrigation Design & Consulting, Inc
Sustaining Landscapes Conserving Water
P O Box 893 O 706-356-0309
Lavonia Ga 30553 F 706-356-1848

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street Tallahassee, FL 32304
850.391.0360 Fax 850.385 1010 www.woodandpartners.com

SHEET NUMBER



1 6" SPRAY BODY
NTS



2 12" SPRAY BODY
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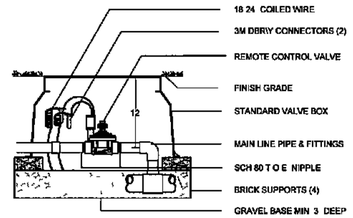
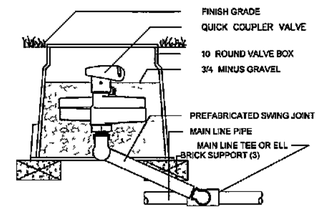


3 ELECTRIC CONTROL VALVE
NTS



4 QUICK COUPLER VALVE
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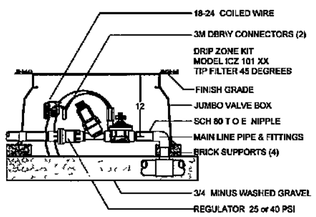

5 DRIP CONTROL ZONE
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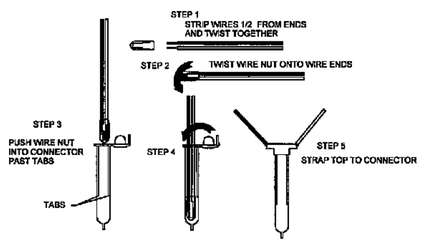
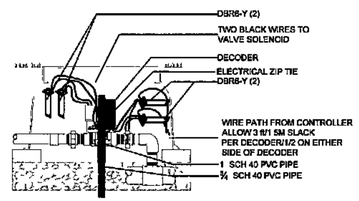
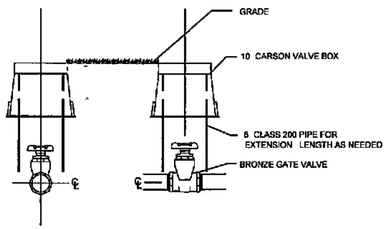


6 WIRE CONNECTION 3M-DBR6-Y
NTS



7 DECODER VALVE BOX INSTALLATION
NTS



8 ISOLATION VALVE DETAIL
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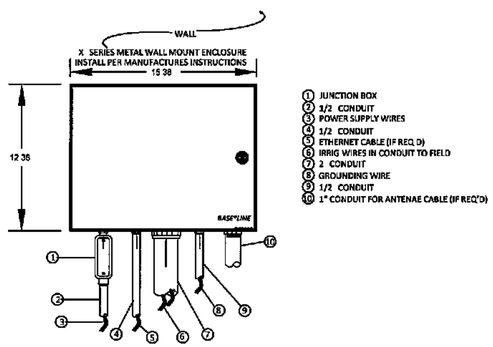
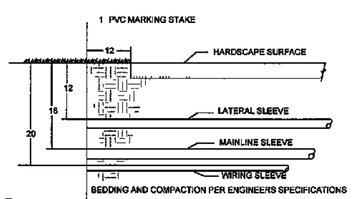


9 BASELINE X CABINET WALL MOUNT CONTROLLER
NTS



10 SLEEVING
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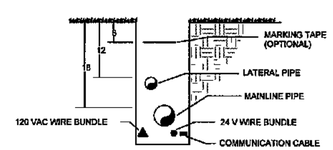
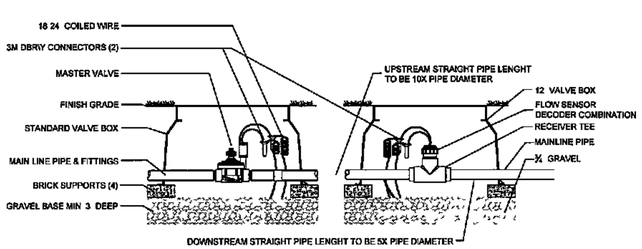
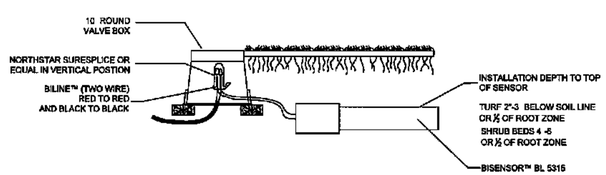


11 TRENCH, PIPE AND WIRE
NTS

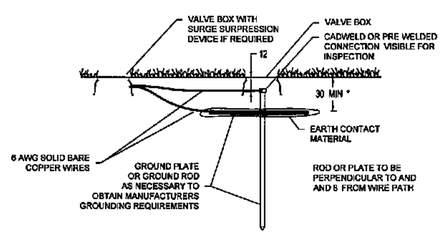
SIDE VIEW



12 MASTER VALVE FLOW SENSOR
NTS



13 MOISTURE SENSOR PLACEMENT
NTS



14 TWO WIRE GROUNDING POINT DETAIL
NTS

GENERAL NOTES

1 ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
2 MAINLINE TO HAVE MINIMUM OF 18 OF COVER AND A MINIMUM OF 18 OFF OF THE HARDSCAPE
3 LATERALS TO HAVE MINIMUM OF 12 OF COVER AND A MINIMUM OF 12' OFF OF THE HARDSCAPE
4 NO ROCKS BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
5 ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
6 SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
7 TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR JACKETED AND APPROVED BY 2-WIRE CONTROLLER MANUFACTURER
9 WIRE SPLICES TO BE DONE AS PER DETAILS
10 ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10 VALVE BOX
11 TWO WIRE CONDUCTORS TO BE COLOR CODED
12 CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
13 AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30 LOOP OF EXTRA WIRE
14 SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON IRRIGATED AREAS
15 ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
14 RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE
JUMBO VALVE BOX FOR DRIP ZONE KITS
16 SPRINKLERS TO BE INSTALLED 12 FROM FOUNDATIONS AND 2' FROM HARDSCAPE
17 CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
18 ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
19 ALL VALVES QUICK COUPLER VALVES WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
20 CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED MAKE ADJUSTMENTS AS NECESSARY
21 CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
22 PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
23 ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
24 CONTRACTOR TO PROVIDE 1 YEAR WARRANTEE OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START UP
25 CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION
26 INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
27 CLEANUP AND DISPOSE OF ALL DEBRIS WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R O W

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INTERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

PLAN IS SUBJECT TO CHANGE

Clark Irrigation Design & Consulting, Inc
Sustaining Landscapes, Conserving Water
P O Box 683
Lavonia Ga 30553
O 706-356-0309
F 706-356-1948

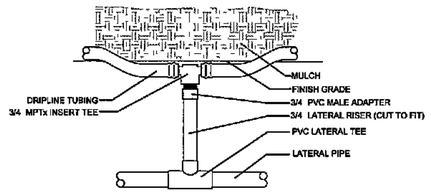
Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850 391 0360 ■ Fax 850.386 1010 ■ www.woodandpartners.com

Dunagan Golf, LLC

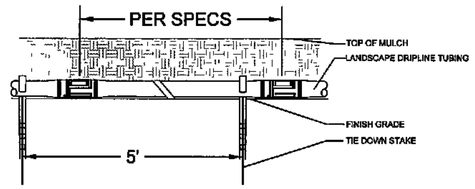
LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	05.16.14	WC

SHEET NUMBER
IR6 of 7



15 DRIPLINE START CONNECTION (W/ PVC LATERAL RISER)
NTS



16 DRIPLINE ON GRADE WITH MULCH COVER
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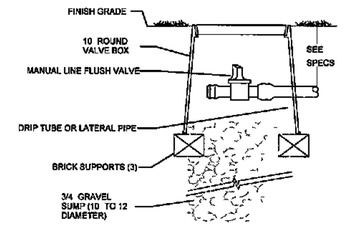
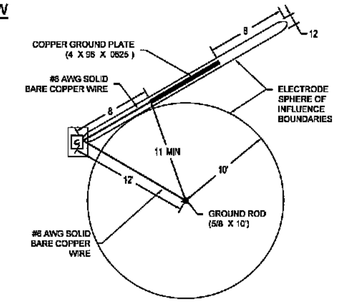
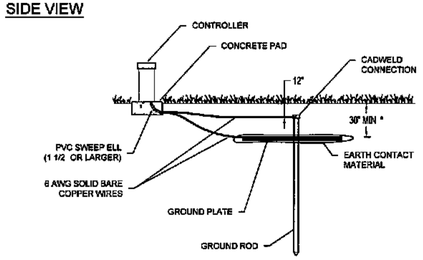


17 MANUAL LINE FLUSHING VALVE
NTS

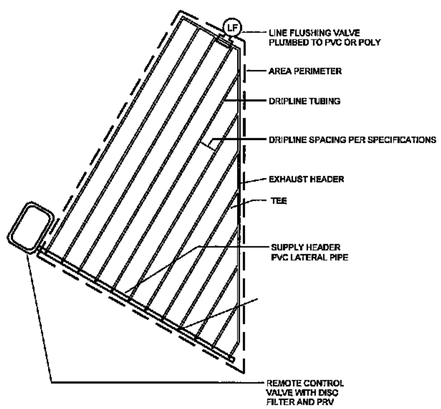
TOP VIEW



SIDE VIEW



21 CONTROLLER GROUNDING DETAIL
NTS



18 IRREGULAR AREA
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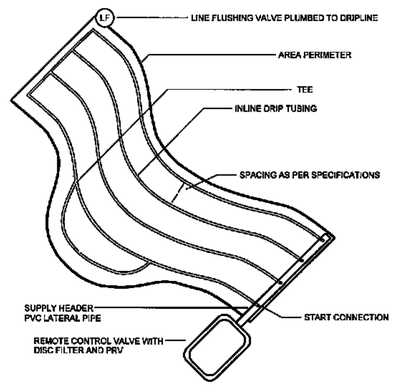

19 IRREGULAR AREA
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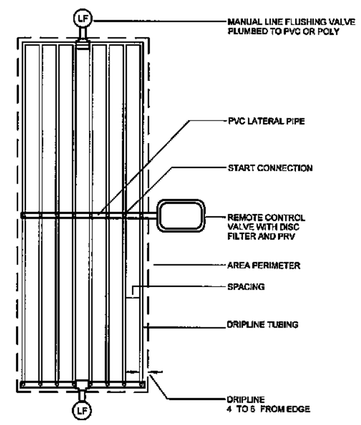
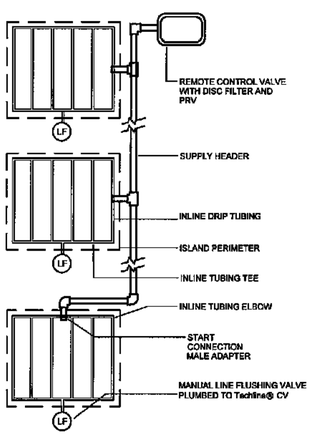


20 CENTER FEED LAYOUT
NTS



22 ISLAND LAYOUT
NTS

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

No changes shall be made to, and construction shall not deviate from, these approved plans without prior written approval from the City of Destin. Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

SURVEY INFORMATION, COMPILED FROM AS-BUILT SURVEY PROVIDED BY INTERLIGHT ENGINEERING CORPORATION FILE ALTA SURVEY 2007 dwg

PLAN IS SUBJECT TO CHANGE

Clark Irrigation Design & Consulting, Inc
Sustaining Landscapes Conserving Water
P.O. Box 693
Lavonia Ga 30553
O 706-356-0309
F 706-356-1948

Wood+Partners Inc. WPi
Landscape Architects
Land Planners
612 S Copeland Street ■ Tallahassee, FL 32304
850 391 0360 ■ Fax 850.386.1610 ■ www.woodandpartners.com

LANDSCAPE PERMIT DOCUMENTS
HENDERSON BEACH RESORT
Okaloosa County, Florida

#	REVISION	DATE	BY
1	SUBMITTAL REVISION	03.18.14	MC

SHEET NUMBER
IR7 of 7

LEGENDS, GENERAL NOTES AND SPECIFICATIONS

SECTION 16000
PART 1 GENERAL

1.1 SUMMARY

A. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE CONSTRUCTION OF THE ELECTRICAL SYSTEM

1.2 WORK INCLUDED

A. THE WORK REQUIRED UNDER THIS DIVISION SHALL INCLUDE ALL MATERIALS, LABOR AND AUXILIARIES REQUIRED TO INSTALL A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.
THE ELECTRICAL SYSTEM WORK REQUIRED UNDER THIS DIVISION SHALL BE AS SPECIFIED HEREIN AND AS SHOWN ON PLANS.

B. DRAWINGS FOR THE WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE EXTENT GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS CONDUIT FITTINGS, ACCESS PANELS, SLEEVES, PULL AND JUNCTION BOXES MAY NOT BE SHOWN INCLUDE SUCH ITEMS WHERE REQUIRED BY CODE, OTHER SECTIONS OR FOR PROPER INSTALLATION OF THE WORK.

C. EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH EVERY PART, CONTROL, OR DEVICE, WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. INCLUDE SUCH ITEMS AS REQUIRED WHETHER OR NOT SPECIFICALLY INDICATED

D. COORDINATE WITH ALL TRADES IN SUBMITTAL OF SHOP DRAWINGS. SHOP DRAWINGS SHALL DETAIL SPACE CONDITIONS TO THE SATISFACTION OF ALL CONCERNED TRADES, SUBJECT TO FINAL REVIEW OF THE ENGINEER. IF ELECTRICAL WORK IS INSTALLED, BEFORE COORDINATING WITH OTHER TRADES, WHICH INTERFERES WITH WORK OF OTHER TRADES, MAKE ALL NECESSARY CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE OWNER

E. COORDINATE ALL REQUIRED OUTAGES WITH OWNER AND POWER COMPANY PROVIDE MIN OF 7 DAY WRITTEN NOTICE.

1.3 CODES AND STANDARDS

a. INSTALL ALL WORK IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING:
b. (SBC) FAC 9B 3.047 STATE BUILDING CODE ADOPTED
c. (NFPA) NFPA 72, 2007 NATIONAL FIRE ALARM CODE
d. (NEC) NFPA 70, 2008 NATIONAL ELECTRICAL CODE
e. (NFPA) NFPA 101, 2009 LIFE SAFETY CODE
f. FAC 4A-3.012 STANDARD OF THE NATIONAL FIRE PROTECTION ASSOCIATION ADOPTED
g. (FBC) FLORIDA BUILDING CODE, 2010

STANDARDS OF THE FOLLOWING ASSOCIATIONS OR ORGANIZATIONS SHALL BE FOLLOWED AND APPLIED WHERE APPLICABLE.
a. (UL) UNDERWRITERS LABORATORIES
b. (IEEE) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
c. (NEMA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
d. (FM) FACTORY MUTUAL

C. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO COMPLY WITH THE APPLICABLE CODES, ORDINANCES, REGULATIONS, AND STANDARDS. WHERE DISCREPANCIES OCCUR, NOTIFY THE ENGINEER, IN WRITING, AND ASK FOR INTERPRETATION CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE APPLICABLE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER.

1.4 PERMITS AND INSPECTIONS

OBTAIN AND MAKE ALL PAYMENT FOR PERMITS AND INSPECTIONS REQUIRED AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE ELECTRICAL WORK PROVIDE EVIDENCE OF FINAL INSPECTION AND APPROVAL BY THE AUTHORITIES HAVING JURISDICTION

1.5 ACTIVE SERVICES

PROTECT EXISTING ACTIVE SERVICES, WATER, GAS, SEWER, ELECTRIC, WHEN ENCOUNTERED AGAINST DAMAGE. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN IF ACTIVE SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION MAKE REQUEST TO AUTHORITIES WITH JURISDICTION FOR DETERMINATION OF PROCEDURES. WHERE EXISTING SERVICES ARE TO BE ABANDONED TERMINATE THEM IN CONFORMANCE WITH REQUIREMENTS OF THE UTILITY OF MUNICIPALITY HAVING JURISDICTION MAINTAIN ALL ROADWAYS IN OPERATIONAL CONDITION AT ALL TIMES.

1.6 TESTS AND DEMONSTRATIONS

TEST ALL SYSTEMS AND PLACE IN PROPER WORKING ORDER PRIOR TO DEMONSTRATING SYSTEMS TO THE OWNER.

PERFORM SUCH TESTS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE SITE.

C. PRIOR TO ACCEPTANCE OF THE WORK, DEMONSTRATE TO THE OWNER ALL FEATURES AND FUNCTIONS OF ALL SYSTEMS, AND INSTRUCT THE OWNER IN THE PROPER OPERATION CARE AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT

D. ARRANGE WITH THE OWNER THE DATES AND TIMES FOR EACH DEMONSTRATION

1.7 IDENTIFICATION

PROVIDE ENGRAVED LAMINATED NAMEPLATES ON THE FOLLOWING, LISTING THE DESIGNATED INFORMATION

1. SAFTEY SWITCHES WITH EQUIPMENT SERVED IDENTIFICATION
2. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK BACKGROUND FOR NORMAL SYSTEM

B. POWER WIRING SHALL HAVE CONDUCTORS COLOR BANDED IN EACH JUNCTION AND PULL BOX.

C. CONTROL CIRCUIT WIRING SHALL BE IDENTIFIED WITH WIRE NUMBERS AT EACH TERMINATION

D. PANELBOARDS

1.8 DELIVERY AND STORAGE

HANDLE, STORE AND PROTECT EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE REQUIREMENTS OF NFPA B APPENDIX I TITLED "EQUIPMENT STORAGE AND MAINTENANCE DURING CONSTRUCTION REPLACE DAMAGED OR DEFECTIVE ITEMS WITH NEW ITEMS.

1.9 ELECTRICAL CONNECTIONS TO EQUIPMENT

PROVIDE POWER CIRCUIT AND CONTROL WIRING FOR ALL ELECTRICAL EQUIPMENT AND CONNECT COMPLETE UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.

ALL CONNECTION SHALL BE TIGHTENED TO THE TORQUE VALUES RECOMMENDED BY THAT DEVICE MANUFACTURERS INSTRUCTIONS. IF THESE VALUES ARE NOT LISTED TIGHTEN TO POUND INCH OR POUND-FOOT VALUES RECOMMENDED BY UL STANDARD 486B, A SUMMARY OF WHICH MAY BE FOUND IN SECTION 110-14 OF THE NATIONAL ELECTRIC CODE HANDBOOK.

1.10 SUBMITTALS

SUBMIT DATA CONSISTING OF SHOP DRAWINGS AND/OR CATALOGUE CUTS COMPLETE WITH TECHNICAL DATA NECESSARY TO EVALUATE THE MATERIAL OR EQUIPMENT INCLUDE DIMENSIONS, WIRING DIAGRAMS, PERFORMANCE CURVES, RATINGS, CONTROL SEQUENCE, AND OTHER DESCRIPTIVE DATA NECESSARY TO DESCRIBE FULLY THE ITEM PROPOSED AND ITS OPERATING CHARACTERISTICS.

DO NOT PURCHASE OR INSTALL EQUIPMENT REQUIRING SUBMITTAL UNTIL THE REVIEW PROCESS IS COMPLETE.

1.11 ACCEPTABLE PRODUCTS

USE ONLY NEW PRODUCTS MADE BY COMPANIES REGULARLY ENGAGED IN THE MANUFACTURE OF THE TYPE EQUIPMENT SPECIFIED USE THE PRODUCTS OF A SINGLE MANUFACTURER FOR SIMILAR TYPE EQUIPMENT I.E. SAFETY SWITCHES, PANELBOARDS, CONDUIT CONDUCTORS AND CIRCUIT BREAKERS

1.12 RECORD DRAWINGS

AT THE JOB SITE, MAINTAIN A SET OF PRINTS ON WHICH ARE RECORDED ALL FORMAL FIELD CHANGES AND OTHER PORTIONS OF THE WORK THAT VARY SIGNIFICANTLY FROM THE CONTRACT DOCUMENTS. INDICATE ACTUAL ROUTING OF ELECTRICAL FEEDERS.

DELIVER RECORD DRAWINGS TO THE OWNER IN THE QUANTITY AND MANNER REQUESTED

C. FINAL ACCEPTANCE AND PAYMENT FOR THE PROJECT WILL NOT BE GIVEN UNTIL THESE DRAWINGS HAVE BEEN RECEIVED

1.13 GUARANTEES

ALL MATERIALS AND LABOR SHALL BE UNCONDITIONALLY WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION SPECIFIC MANUFACTURER'S EQUIPMENT WARRANTIES IN EXCESS OF ONE (1) YEAR SHALL TAKE PRECEDENCE. MANUFACTURER'S WARRANTIES SHALL BE PROVIDED WHENEVER AVAILABLE AND POSSIBLE. ALL EQUIPMENT SHALL BE NEW AND UNUSED FROM THE FACTORY AND SHALL NOT BE MODIFIED OR REBUILT

PART 2 PRODUCTS

2.1 - OUTLET BOXES:

GENERAL USE BOXES. GALVANIZED, PRESSED STEEL UNITS OF PROPER DEPTH AND GAUGE REQUIRED BY THE OUTLET LOCATION EQUIP WITH PLASTER RING OR COVER AS NECESSARY

ACCEPTABLE MANUFACTURERS RACO OR STEEL CITY

SPECIAL BOXES. GALVANIZED SHEET METAL OR CAST CONSTRUCTION AND SIZED IN ACCORDANCE WITH THE NEC BASED ON THE NUMBER OF CONDUCTORS AND SPLICES TO BE HOUSED FOR SPECIAL SYSTEMS, USE BOXES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

2.2 CONDUIT

RIGID METALLIC CONDUIT (RMC) HOT DIPPED GALVANIZED STEEL CONFORMING TO FS WW-C581E AND UL 6
ELECTRICAL METALLIC TUBING (EMT/THINWALL): GALVANIZED STEEL CONFORMING TO ASA C80.3, FS WW-C563 AND UL 797
INTERMEDIATE METAL CONDUIT (IMC) HOT DIPPED GALVANIZED STEEL CONFORMING TO FS WW-C581E AND UL 1242.
FLEXIBLE METAL CONDUIT SPIRAL WOUND SQUARE- LOCKED HOT DIPPED GALVANIZED STEEL CONFORMING TO UL 1

2.3 CONDUIT FITTINGS

RMC: THREADED, MALLEABLE IRON, HOT DIPPED GALVANIZED OR CADMIUM PLATED FITTINGS USED WITH COATED RMC SHALL HAVE A SIMILAR COATING.
EMT COMPRESSION TYPE, MADE OF CADMIUM PLATED STEEL OR HOT DIPPED GALVANIZED MALLEABLE IRON
FLEXIBLE METAL. TWO SCREW, DOUBLE CLAMP MALLEABLE IRON HOT- DIPPED GALVANIZED OR CADMIUM PLATED

2.4 WIRE AND CABLE - 600 VOLT

ALL CONDUCTORS SHALL BE COPPER.

INSULATION HEAT AND MOISTURE RESISTANT WITH A TEMPERATURE RATING OF AT LEAST 75 DEGREES (THHN THWN) AND A 600 VOLT RATING UNLESS OTHERWISE INDICATED

USE STRANDED CONDUCTOR ON ALL WIRING #10 AWG AND LARGER. ALL OTHER WIRING MAY BE SOLID

COLOR CODE WIRING AS FOLLOWS:

277/480 VOLT 3 PHASE, 4 WIRE	120/240 VOLT 1 PHASE, 3 WIRE	120/208 VOLT, 3 PHASE, 4 WIRE
NEUTRAL - NATURAL GRAY	NEUTRAL - WHITE	NEUTRAL - WHITE
PHASE A - BROWN	PHASE A - BLACK	PHASE A - BLACK
PHASE B - ORANGE		PHASE B - RED
PHASE C - YELLOW	PHASE C BLUE	PHASE C - BLUE
GROUND --- GREEN	GROUND - - GREEN	GROUND --- GREEN

ALL OTHER COLORS SHALL BE RESERVED FOR AND ONLY USED FOR SWITCH LEGS, CONTROL CIRCUITS, COMMUNICATIONS WIRING, FIRE ALARM, ETC. USE DIFFERENT COLOR FOR DIFFERENT CIRCUIT TYPES.

2.5 GROUNDING

PROVIDE AN EQUIPMENT CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC)

BOND ALL BRANCH CIRCUIT DEVICES TO THE BUILDING GROUND SYSTEM BY MEANS OF THE GROUNDING CONDUCTOR INSTALLED IN EACH RACEWAY

2.6 ANCHORS AND FASTENERS

USE ANCHORS AND FASTENERS OF A TYPE DESIGNED AND INTENDED FOR USE IN THE BASE MATERIAL TO WHICH THE MATERIAL OR SUPPORT IS TO BE ATTACHED, AND CAPABLE OF SUPPORTING THE INTENDED LOAD AND WITHSTANDING ANY ASSOCIATED STRESSES AND VIBRATIONS. DO NOT USE WOODEN PLUGS FOR FASTENING.

2.7 PANELBOARDS

ALL PANELBOARDS SHALL BE DEADFRONT CONSTRUCTION WITH COPPER BUSS BRACED FOR A MINIMUM 22,000 A.I.C. RATING, (UNLESS NOTED OTHERWISE) ENCLOSURES SHALL BE NEMA 1 LOCKABLE. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT ON TYPE. ACCEPTABLE MANUFACTURERS ARE.
SQ. D
SIEMENS
G.E.

2.8 RECEPTACLES:

RECEPTACLES SHALL BE VOLTAGE & AMPACITY APPLICABLE TO LOAD AND CIRCUIT (UNLESS NOTED OTHERWISE) ACCEPTABLE MANUFACTURERS ARE.

LEVITON
HUBBELL
PASS-SEYMORE

2.9 SAFETY SWITCHES:

1. ALL SAFETY SWITCHES SHALL BE THE HEAVY DUTY TYPE, FUSED OR NON-FUSED AS INDICATED ON PLANS. ENCLOSURE TYPE, (NEMA 1 OR NEMA 3R DEPENDING ON LOCATION) AS INDICATED ON PLANS. ACCEPTABLE MANUFACTURERS ARE,

SQUARE D
SIEMENS
G.E.

2.91 CIRCUIT BREAKERS

PROVIDE CIRCUIT BREAKERS IN AMPACITY POLES, AND A.I.C. RATINGS TO MATCH PANEL & CIRCUIT

PART 3 - EXECUTION

3.1 GENERAL REQUIREMENTS

3. USE GOOD WORKMANSHIP IN THE INSTALLATION OF ALL ELECTRICAL MATERIALS AND EQUIPMENT INSTALL EQUIPMENT LEVEL, PLUMB AND TRUE WITH THE STRUCTURE AND OTHER EQUIPMENT FIRMLY SECURE ALL MATERIALS IN PLACE, ADEQUATELY SUPPORTED AND PERMANENT MATERIALS EMBEDDED IN CONCRETE OR MASONRY OR OTHERWISE PART OF THE STRUCTURE ARE CONSIDERED SUFFICIENTLY SUPPORTED USE HARDWARE AND ACCESSORY FITTINGS OF A TYPE DESIGNED INTENDED AND APPROPRIATE FOR THE USE AND TO COMPLEMENT THE ITEMS WITH WHICH THEY ARE USED

3.2 MINIMUM SIZES

1. CONDUIT 3/4"

2. WIRE. MINIMUM #10 COPPER AWG FOR ALL POWER AND LIGHTING CIRCUITS. SIGNAL AND CONTROL WIRING MAY BE SMALLER, AS INDICATED

3.3 LOCATIONS AND DIMENSIONS

1. LOCATE ALL DEVICES AND EQUIPMENT WHERE SHOWN ON THE DRAWINGS ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE FROM FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE INDICATED

3.4 WIRING METHODS

1. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS. PROVIDE NYLON PULL CORD IN EMPTY CONDUITS.

2. SET OUTLET BOXES SQUARE, LEVEL, AND FLUSH WITH FINISHED SURFACES. SECURE AND BRACE WORK IN SUCH A MANNER AS TO INSURE THAT OUTLET BOXES AND CONDUIT DO NOT BECOME DISLOCATED DURING THE CONCRETE PLACING OPERATIONS OR WHILE OTHER CONSTRUCTION WORK IS BEING DONE.

3. UNLESS OTHERWISE INDICATED PROVIDE CONDUIT IN ACCORDANCE WITH THE FOLLOWING:

1. RIGID METAL CONDUIT (RMC) USE ANYWHERE. FOR SERVICE ENTRANCE OR WHERE RUN EXPOSED.
2. PVC: USE WHERE SHOWN ON THE DRAWINGS OR BELOW GRADE.
3. THIN WALL METAL (EMT): USE ANYWHERE EXCEPT
A. UNDERGROUND
B. IN SLABS ON GROUND

4. USE FLEXIBLE STEEL CONDUIT WITH GROUND WIRE FOR FINAL 24" OF CONNECTION TO MOTORS OR EQUIPMENT SUBJECT TO VIBRATION

5. FIRMLY AND SECURELY FASTEN CONDUITS TO OR SUPPORT FROM THE BUILDING OR STRUCTURAL MEMBER OR EMBEDDED IN CONCRETE OR MASONRY USE HANGERS AND SUPPORTS THAT ARE STANDARD CATALOG ITEMS OF A TYPE COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. TWISTED WIRE HANGERS AND SUPPORTS ARE NOT ACCEPTABLE.

6. DO NOT PULL CONDUCTORS INTO CONDUITS UNTIL ALL WORK WHICH MAY CAUSE DAMAGE TO THE WIRES IS COMPLETED INSTALL WIRE AND CABLES SO AS NOT TO DAMAGE THE INSULATION OR CABLE SHEATH PULL ALL CONDUCTORS TO BE INSTALLED IN A RACEWAY TOGETHER

7. KEEP CONDUCTOR SPLICES TO A MINIMUM PROVIDE SPLICES AND TAPS WITH AT LEAST THE EQUIVALENT MECHANICAL STRENGTH AND INSULATION AS THE CONDUCTORS. PROVIDE SPLICE AND TAP DEVICE OF THE PROPER SIZE AND TYPE FOR THE USE AND COMPATIBLE WITH THE CONDUCTOR MATERIAL.
A. HANDHOLE
FOR BELOW GRADE JUNCTIONS, PROVIDE TRAFFIC RATED, LOCKABLE, UTILITY GRADE JUNCTION BOX (HAND HOLE) WITH ROUND TOP FLUSH WITH GRADE. UNLESS OTHERWISE NOTED PROVIDE ONE HANDHOLE ADJACENT TO EACH LIGHTING POLE "A" AND BOLLARD "B AND "C" BASE. REFER TO DETAILS BASIS OF DESIGN IS NEW BASIS #FCA160036T OR APPROVED EQUAL.
B. BELOW GRADE SPLICE
BELOW GRADE SPLICES SHALL BE MADE ONLY IN HANDHOLES. PROVIDE UTILITY GRADE SUBMERSIBLE, MULTI TAP (NUMBER OF TAPS AS REQUIRED PER TASK) ENCAPSULATED CABLE BLOCK CONNECTORS SUCH AS HOMAC, UTILCO OR APPROVED EQUAL.

8. PROVIDE SUFFICIENT LENGTH OF CONDUCTORS WITHIN CABINETS AND CUTOUT BOXES TO NEATLY TRAIN THE CONDUCTOR TO THE TERMINAL POINT WITH NO EXCESS. FASTEN THE CABLES TOGETHER IN NEAT BUNDLES WHEN THERE ARE MANY CONDUCTORS.

9. PROVIDE FIRE RESISTANT COMPOUND TO RESTORE FIRE AND SMOKE RATING WHEN PENETRATING A RATED WALL OR CEILING

3.5 EQUIPMENT MOUNTING

1. INSTALL EQUIPMENT AS INDICATED OR AS APPROPRIATE. PROVIDE FASTENERS OR SUPPORTS SUFFICIENT IN SIZE AND QUANTITY TO SUBSTANTIALLY SECURE THE EQUIPMENT IN PLACE TO THE BUILDING STRUCTURE OR STRUCTURAL ELEMENT

2. INSTALL THE EQUIPMENT PLUMB AND TRUE AS INTENDED AND SECURE. WHEN SEVERAL ITEMS OF EQUIPMENT ARE WALL OR RACK MOUNTED IN THE SAME AREA, LINE THEM UP VERTICALLY AND HORIZONTALLY ALONG WITH ANY ASSOCIATED RACEWAYS.

3.6 CUTTING AND PATCHING

1. CUT WALLS, FLOORS, PAVEMENT, ETC. AS REQUIRED FOR THE ELECTRICAL INSTALLATIONS. UNLESS OTHERWISE INDICATED PATCH AND REFINISH TO MATCH ADJACENT SURFACES AND IN ACCORDANCE WITH THE OTHER DIVISIONS OF THESE SPECIFICATIONS.

3.7 PROTECTION OF EQUIPMENT

1. DURING CONSTRUCTION PROTECT ALL EQUIPMENT FROM INSULATION MOISTURE ABSORPTION AND METALLIC COMPONENT CORROSION BY APPROPRIATE USE OF STRIP HEATERS, LAMPS, COVERINGS, OR OTHER SUITABLE MEANS. APPLY PROTECTION IMMEDIATELY UPON RECEIVING THE PRODUCTS AND MAINTAIN CONTINUALLY

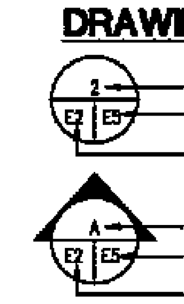
2. KEEP PRODUCTS CLEAN BY ELEVATING ABOVE GROUND OR FLOOR AND BY USING SUITABLE COVERINGS. TAKE SUCH PRECAUTIONS AS ARE NECESSARY TO PROTECT APPARATUS AND MATERIALS FROM DAMAGE. FAILURE TO PROTECT MATERIALS IS SUFFICIENT CAUSE FOR REJECTION OF THE APPARATUS OR MATERIAL IN QUESTION

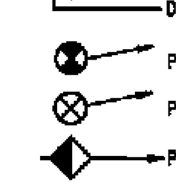
3. PROTECT FACTORY FINISH FROM DAMAGE DURING CONSTRUCTION OPERATIONS AND UNTIL ACCEPTANCE OF THE PROJECT SATISFACTORILY RESTORE ANY FINISHES THAT BECOME STAINED OR DAMAGED.

SYMBOL LEGEND

Symbol	Description
H	HAND HOLE. MIN INSIDE DIMENSIONS SHALL BE 48"Wx96"Lx48"D (SEE DETAIL)
J	CEILING OR WALL MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY N.E.C.
J	FLOOR MOUNTED JUNCTION BOX. UON SIZE AS REQUIRED BY N.E.C.
15	MOTOR, NUMERAL INDICATES HP
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION AS INDICATED
CB	CABINET ENCLOSURE. AS INDICATED UON MOUNT TOP OF ENCLOSURE 72 AFF
	SINGLE PUSHBUTTON UON CENTERLINE MOUNTED 48 AFF
	DOUBLE PUSHBUTTON UON CENTERLINE MOUNTED 48 AFF
	480/277V 3Ø 4W PANELBOARD
	208/120V 3Ø 4W PANELBOARD
	MISCELLANEOUS PANELBOARD AS INDICATED
T	DRY TYPE TRANSFORMER. AS INDICATED
	HEAVY DUTY SAFETY SWITCH NON FUSIBLE. UON MOUNT TOP OF ENCLOSURE 66 AFF
	HEAVY DUTY FUSIBLE SAFETY SWITCH. UON MOUNT TOP OF ENCLOSURE 66 AFF
	HEAVY DUTY FUSIBLE COMBINATION STARTER/DISCONNECT SAFETY SWITCH UON MOUNT TOP OF ENCLOSURE 66 AFF
	MAGNETIC MOTOR STARTER. UON MOUNT TOP OF ENCLOSURE 66" AFF
	VARIABLE FREQUENCY DRIVE AS INDICATED UON MOUNT TOP OF ENCLOSURE 72 AFF PROVIDED BY MECHANICAL, INSTALLED BY ELECTRICAL
	ENCLOSED CIRCUIT BREAKER
	SINGLE RECEPTACLE. UON CENTERLINE MOUNTED 18" AFF
	DUPLEX RECEPTACLE. UON CENTERLINE MOUNTED 18" AFF
	DUPLEX RECEPTACLE. UON CENTERLINE MOUNTED 42 AFF
	50A 1Ø 240V RECEPTACLE. UON CENTERLINE MOUNTED 18" AFF
	DOUBLE DUPLEX RECEPTACLE OUTLET UON CENTERLINE MOUNTED 18" AFF
	DOUBLE DUPLEX RECEPTACLE OUTLET UON CENTERLINE MOUNTED 42 AFF
	SPECIAL RECEPTACLE, AS INDICATED UON CENTERLINE MOUNTED 18 AFF
	WORK NOTE DESIGNATOR

DRAWING SYMBOLS

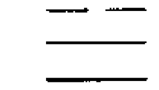




LIGHTING LEGEND

- POST-TOP AREA LIGHT (POLE & FIXTURE) REFER TO FIXTURE SCHEDULE.
- BOLLARD LIGHT REFER TO FIXTURE SCHEDULE
- LANDSCAPE LIGHT (EVENT LAWN & POOL AREAS ONLY) REFER TO FIXTURE SCHEDULE
- WALL/STEP LIGHT REFER TO FIXTURE SCHEDULE
- ACCENT LIGHT REFER TO FIXTURE SCHEDULE
- UP-LIGHT REFER TO FIXTURE SCHEDULE
- "TURTLE FRIENDLY" STEP LIGHT REFER TO FIXTURE SCHEDULE

LINE TYPE LEGEND



LEGEND NOTES

1. THE LEGEND INDICATES STANDARD SYMBOLS. ALL SYMBOLS MAY NOT BE USED ON THESE PLANS. HOWEVER, WHERE THE SYMBOL APPEARS ON THE PLANS IT SHALL BE PROVIDED AND INSTALLED ACCORDING TO PLANS AND SPECIFICATIONS.
2. FOR ALL LIGHTING FIXTURE SYMBOLS SHOWN ON LEGEND THE FOLLOWING SHALL APPLY:
a) UPPER CASE LETTER ADJACENT TO FIXTURE IS FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE.
b) LOWER CASE LETTER ADJACENT TO FIXTURE INDICATES SWITCH LEG CONTROL.
c) NUMERAL ADJACENT TO FIXTURE INDICATES CIRCUIT NUMBER.
3. THE LETTER 'WP' ADJACENT TO RECEPTACLE INDICATES A WEATHERPROOF COVER AND WEATHER-RESISTANT LABELED RECEPTACLE ARE REQUIRED
4. THE LETER 'GFI' ADJACENT TO RECEPTACLE INDICATES A GROUND FAULT INTERRUPTING RECEPTACLE. FEED THROUGH CONFIGURATION IS NOT PERMITTED

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS. SHEET NOTES APPLY ONLY ON THE DRAWING ON WHICH THEY APPEAR. FLAG NOTES REFER TO LIKE NUMBERED ITEMS ON THE SHEET WHICH THEY APPEAR.
2. THESE DRAWINGS MUST BE WORKED IN CONJUNCTION WITH CIVIL AND ALL APPROVED SHOP DRAWINGS TO INSURE EXACT AND PROPER LOCATION OF ALL DEVICES AND EQUIPMENT MANY DEVICE AND EQUIPMENT LOCATIONS ARE FOUND OTHER PLANS.
3. ALL EQUIPMENT SHALL BE UL LABELED AND LISTED
4. PROJECT PHASING SHALL BE COORDINATED WITH OWNER

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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OUTDOOR LIGHTING SHEET 1 OF 8

SEAL
Richard A. Nelson
4333 Maywood Dr
Marianna FL 32446
PE# 63080
5-28-14

PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.

REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE
ELECTRICAL
LEGENDS, GENERAL NOTES & SPECIFICATIONS

FILE	E01.01
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY	NH
CHECKED BY	RKF
SHEET No.	E01.01

M:\213-114\E01.01.dwg, 3/19/2014 2:14:44 PM, Rachael

LIGHTING FIXTURE SCHEDULE

LETTER	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	DIFFUSER	MOUNTING	VOLTS	LAMP QUANTITY	LAMP WATTS	LAMP TYPE	POLE HEIGHT	POLE TYPE	POLE COLOR	POLE MANUFACTURER	POLE MODEL NO	REFER TO NOTE #	QUANTITY (25)
A		POST-TOP AREA LIGHT	LUMINIS	MA14SH L42W100-LD4-BLC	GLASS	POLE	UNV	1	100	LED	14'	AL	BLACK	(15)	(18)	1 2 3 4 5 6 7 11 12	29
B		BOLLARD LIGHT	GARDCO	BRB40-CWL-NW-180-18-UNV	GLASS	CONC BASE	UNV	1	18	LED						1 2 3 4 5 6 7 11 12	100
C		LANDSCAPE LIGHT	TEKA LIGHTING	BSB-2512 UNV	GLASS	CONC BASE	UNV	1	26	LED						1 2 3 4 5 6 7 11	98
D		WALL/STEP LIGHT	GHIONI	B20-7610	GLASS	RECESS	UNV	1	18	LED						3 4 6 8 9 10 11 12 16 19	118
E		ACCENT LIGHT	BK LIGHTING	NS-LED E22-MFL-A9-11-360SL	GLASS	SURF	UNV	1	19	LED						3 4 6 8 9 10 11 12 13 14 15 16 17 20 21	88
F		UP-LIGHT	BK LIGHTING	DE LED-X25-FL-9-11 B	GLASS	CONC BASE	UNV	1	25	LED						1 3 4 5 6 8 9 10 11 12 13 14 15 16 17	810
G	G	CITY OF DESTIN STREET LIGHT SHEPHERD'S HOOK STYLE	LUMINIS	SR215-L1W56-120V BKT-APS	GLASS	POLE	120	1	53	LED	15'	CONC	BLACK	STRESSCRETE		1 2 3 4 5 6 7 8 9 10 11 12 22 23 24	16
H		TURTLE FRIENDLY STEP LIGHT	MP LIGHTING	L151-5-RD-50-MA	AL	SURF	12	1	3	LED						2 3 8 9 10 11 17 19	41

NOTES:

1. REQUIRES CONSTRUCTION OF A CONCRETE BASE. REFER TO DETAIL.
2. CONTRACTOR SHALL STAKE THE PROPOSED LOCATION OF EACH NEW BASE/LIGHT POLE AND PROVIDE REASONABLE TIME FOR THE AGENT AND ENGINEER TO REVIEW AND APPROVE PRIOR TO EXCAVATION AND PLACEMENT OF ROUGH-IN MATERIAL.
3. CONTRACTOR TO VERIFY ALL FIXTURE/CIRCUIT VOLTAGES PRIOR TO ORDERING FIXTURE.
4. CONTRACTOR SHALL PROVIDE ONE LAMP INSTALLED IN EACH FIXTURE & 1 SPARE LAMP
5. POLE, FIXTURE, AND ACCESSORIES SHALL ALL BE OF THE SAME MANUFACTURER
6. PROVIDE BALLAST/DRIVER FOR UNIVERSAL VOLTAGE. (120, 208, 240, 277)
7. DESIGN WIND LOAD IS 130 MPH WITH A 125% GUST FACTOR
8. COORDINATE INSTALLATION WITH OTHER TRADES AND FAB-SHOPS AS REQUIRED
9. CONDUIT & CONDUCTORS SHALL BE CONCEALED INSIDE STRUCTURE.
10. CONTRACTOR TO ASSEMBLE & INSTALL FIXTURES PER MANUFACTURER'S GUIDELINES. PROVIDE ADDITIONAL SUPPORT, CONCRETE, WALL BOXES AND ANCHORS AS REQUIRED TO INSTALL IN THE SPACE PROVIDED USE ONLY STAINLESS STEEL FASTENERS FOR ASSEMBLY AND INSTALLATION OF LIGHT FIXTURES PROVIDE NIGHT-TIME AIMING AND DEMONSTRATION OF FIXTURES
11. LED FIXTURES ARE TO MEET IESNA LM-79-08 STANDARDS
12. FIXTURE SHALL MEET IESNA DEFINITION OF CUTOFF FIXTURE.
13. VERTICALLY MOUNTED DIRECTIONAL LIGHTS SHALL BE AIMED DOWN AT LEAST 45-DEGREES FROM VERTICAL.
14. DISPLAY LIGHTS WITHIN 50-FEET OF PUBLIC STREET RIGHT-OF-WAY SHALL BE MOUNTED AND AIMED PERPENDICULAR TO THE RIGHT-OF-WAY WITH A SIDE-TO-SIDE AIMING TOLERANCE NOT TO EXCEED 15-DEGREES FROM PERPENDICULAR TO THE RIGHT-OF-WAY
15. PROVIDE FIXTURE WITH HONEYCOMB BAFFLE INTERNAL TO LENS. REFER TO MANUFACTURER CUT-SHEET DATA.
16. REFER TO ADDITIONAL MOUNTING OR AIMING INSTRUCTIONS IN THE WORK NOTES ON THE SITE PLANS.
17. FIXTURE REQUIRES A REMOTE MOUNTED TRANSFORMER CONTRACTOR SHALL PROVIDE A MEANS OF MOUNTING.
18. INCLUDED IN MODEL NUMBER
19. UNLESS OTHERWISE NOTED, FIXTURE SHALL BE MOUNTED W/CENTERLINE 18" ABOVE ADJACENT FINISHED FLOOR OR STEP
20. PROVIDE CONCRETE BASE SAME AS FIXTURE "F" WHERE USED AS A GROUND-MOUNTED ACCENT LIGHT
21. ATTACH TO BUILDING OR STRUCTURE WHEN USED AS A STRUCTURE ACCENT/DOWN-LIGHT
22. PROVIDE POLE WITH 6" DIA TENON FOR MOUNTING "SHEPARD'S HOOK ARM & STREET LIGHT
23. OVERALL POLE LENGTH = 15'-0 DIRECT EMBEDMENT DEPTH = 4'-0" POLE HEIGHT ABOVE GRADE = 11-0"
24. "SHEPHERD'S HOOK" ARM/BRACKET (APS) IS INCLUDED IN FIXTURE MODEL NUMBER SHALL BE TENON MOUNTED TO TOP OF POLE.
25. QUANTITY APPROXIMATE BASED UPON LANDSCAPE ADJUSTMENTS CONTRACTOR SHALL VERIFY PRIOR TO ORDERING MATERIAL.

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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SEAL
Richard A. Nelson
4333 Maywood Dr.
Marianna FL 32446
PE# 63080
5-23-14
PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.
4333 TH CHAMBERLAIN BLVD, SUITE 100
TALLAHASSEE, FLORIDA 32317
CERTIFICATE NO. 8768 PHONE: (850) 893-9505
Engineering Business #8768

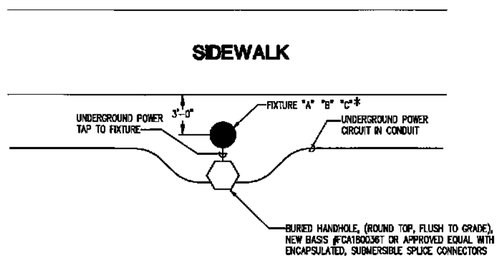
REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE: LIGHTING FIXTURE SCHEDULE

FILE	E01 02
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY	NH
CHECKED BY	RKF
SHEET No.	E01.02

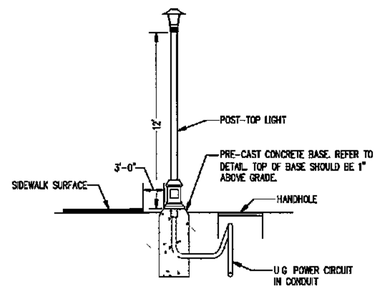
H:\213-114\E01.02.dwg, 3/19/2014 2:14:19 PM, Rachael



TYPICAL PLACEMENT DETAIL

NOT TO SCALE (POLE/BOLLARD FIXTURES "A", B" & "C"

*=CONTRACTOR SHALL STAKE FOR AGENT/ENGINEER REVIEW PRIOR TO ROUGH-IN INSTALLATION

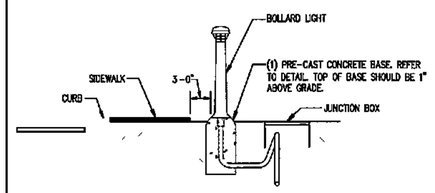


FIXTURE "A" POLE DETAIL

NOT TO SCALE

(REFER TO LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER PART NUMBERS)

SYMBOL =

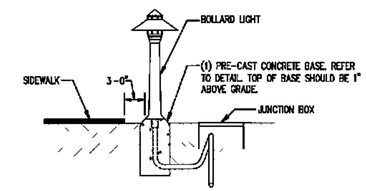


FIXTURE "B" POLE DETAIL

NOT TO SCALE

(REFER TO LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER PART NUMBERS)

SYMBOL =



FIXTURE "C" POLE DETAIL

NOT TO SCALE

(REFER TO LIGHTING FIXTURE SCHEDULE FOR MANUFACTURER PART NUMBERS)

SYMBOL =

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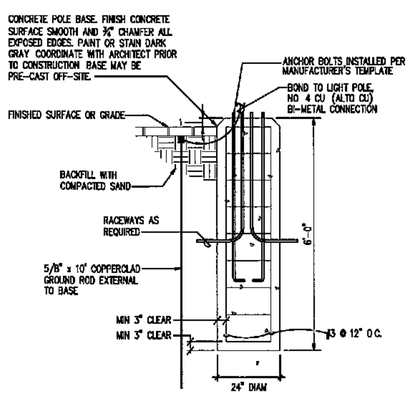
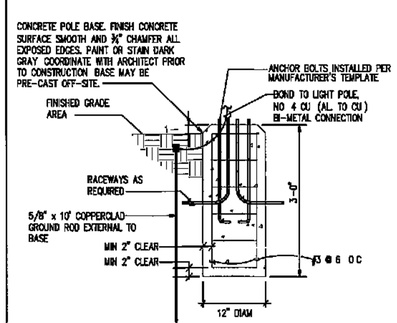


BASE DETAIL FOR "A" FIXTURE

NOT TO SCALE

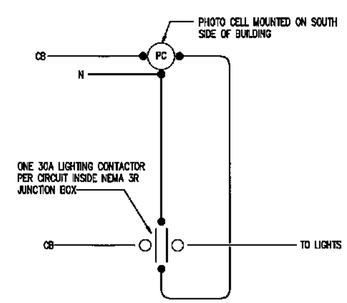
SYMBOL =



BASE DETAIL FOR "B" & "C" FIXTURES

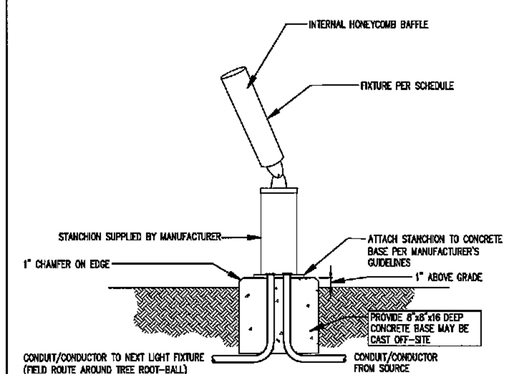
NOT TO SCALE

SYMBOL = &



LIGHTING CONTACTOR DETAIL (TYPICAL)

NOT TO SCALE



TYPICAL UP-LIGHT DETAIL

NOT TO SCALE SYMBOL=

(NOTE: REFER TO REMARKS ON THE LIGHTING FIXTURE SCHEDULE.)

SEAL
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PE# 63080
5-23-14

PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.
CERTIFICATE OF AUTHORIZATION #27000
2613 LAFAYETTE ST. MARIANNA, FLORIDA 32446
850.526.2622 FAX 850.526.2623
Engineering Business #27000

REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE: OUTDOOR LIGHTING DETAILS

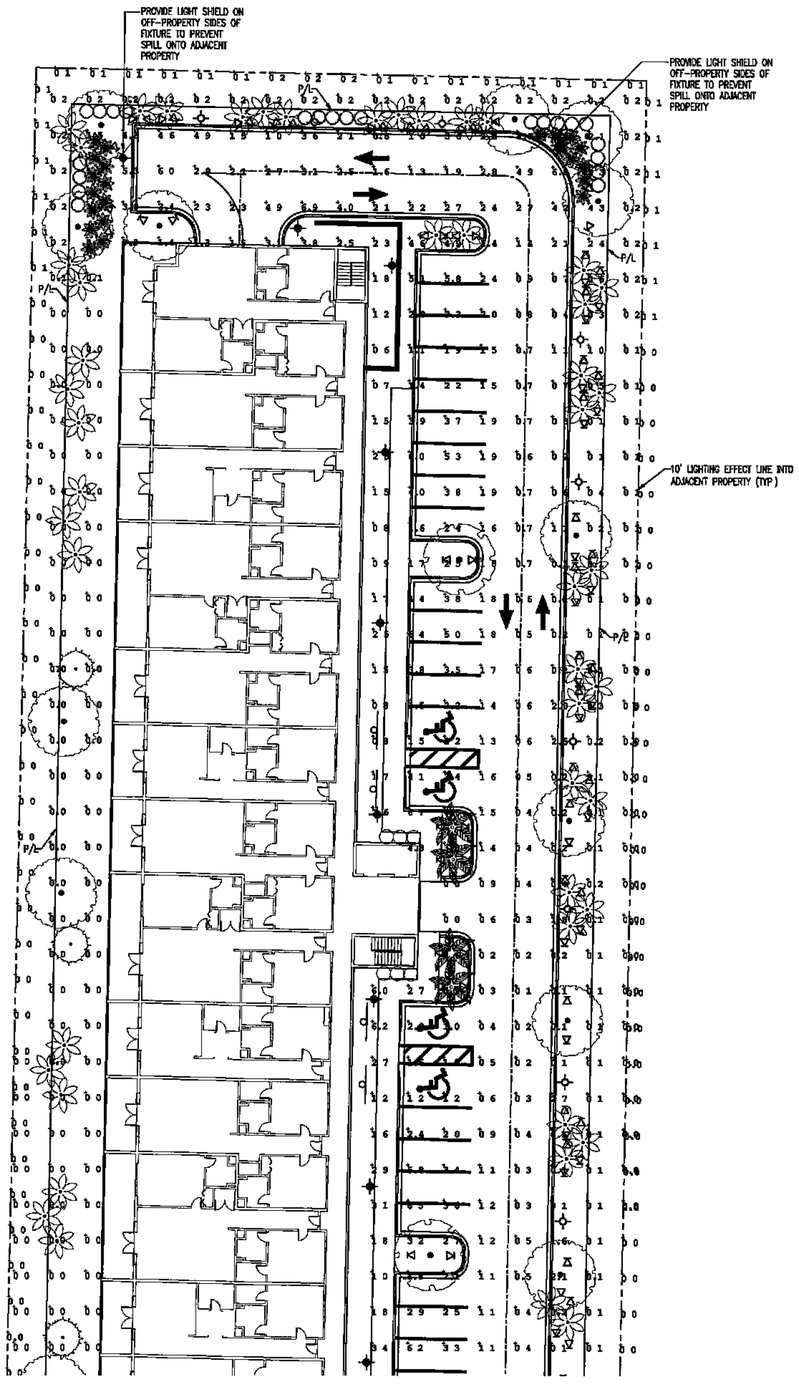
FILE	E01.03
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY:	NH
CHECKED BY:	RKF
SHEET No.	E01.03

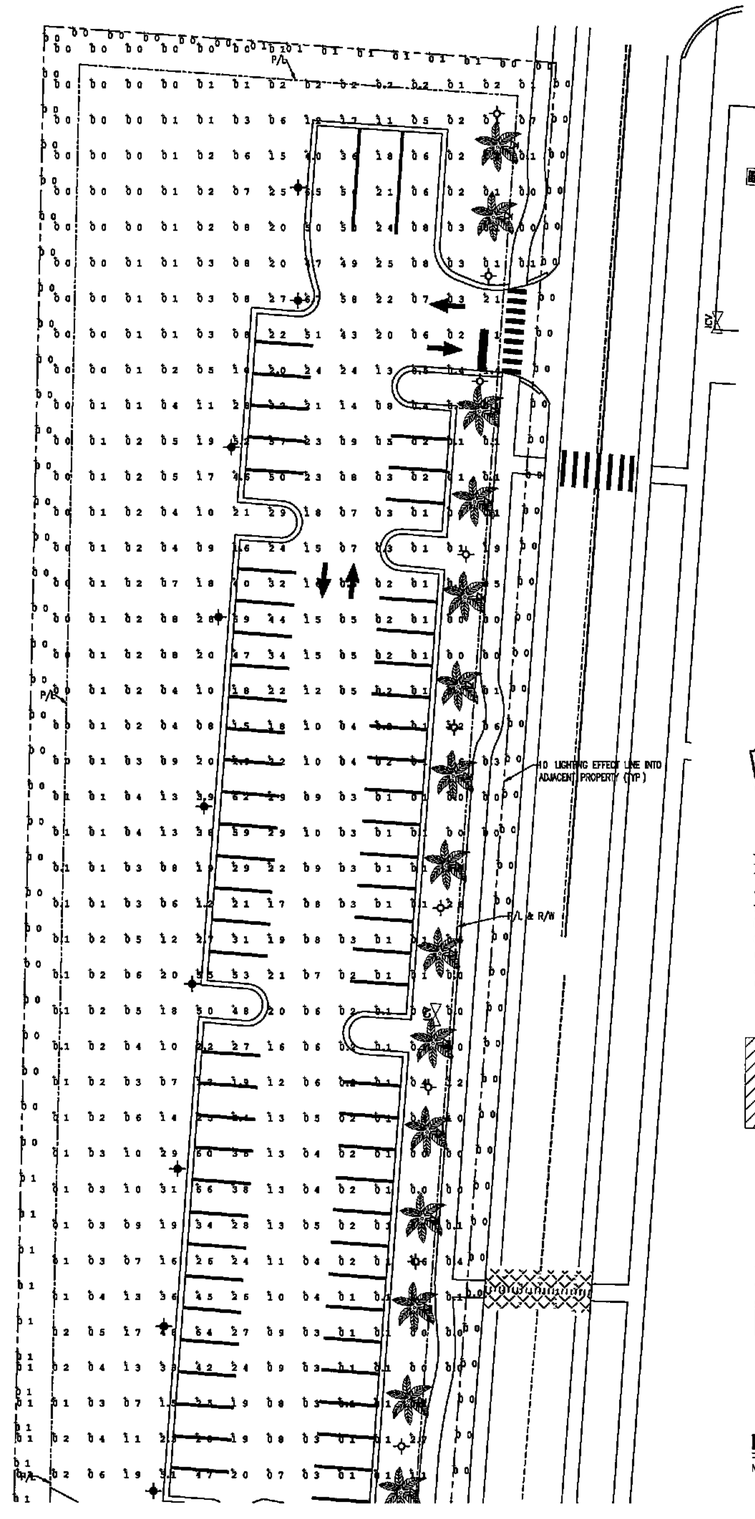
H:\213-114\E01.03.dwg, 3/19/2014 2:13:01 PM, Rachael

GRAPHIC SCALE

1" = 20

20 0 20 40'





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City of Destin
Technical Review Team

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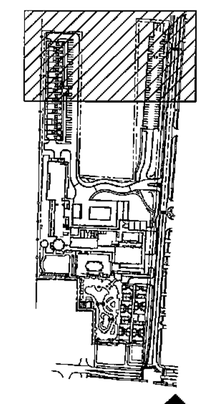

KEYPLAN

NOT TO SCALE

OUTDOOR LIGHTING SHEET 4 OF 8

SEAL

Richard A. Nelson
4333 Maywood Dr
Marianna, FL 32446
PE# 65000

5-29-14

PINNACLE ENGINEERING GROUP, P.A.

Pinnacle Engineering Group, P.A.

REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE: OUTDOOR LIGHTING SITE PLAN

FILE	E01 04
JOB NO	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY	NH
CHECKED BY	RKF
SHEET No.	

E01.04

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GRAPHIC SCALE 1 = 20

20 0 20' 40'

N

PROVIDE LIGHT SHIELD ON OFF-PROPERTY SIDES OF FIXTURE TO PREVENT SPILL ONTO ADJACENT PROPERTY

10' LIGHTING EFFECT LINE INTO ADJACENT PROPERTY (TYP.)

P/L

WORK NOTES:

1. FIXTURE SHALL BE MOUNTED 2 FEET FROM BUILDING AT GRADE AND AIMED AT BUILDING TO ACCENT WALL (TYP.)
2. WALL/STEP LIGHTS SHALL BE MOUNTED 18" ABOVE WALK-WAY (TYP.)
3. FIXTURE SHALL BE MOUNTED 2 FEET FROM SIGN FACE AT GRADE AND AIMED AT CENTER OF TEXT/LOGO (TYP.)

PROVIDE LIGHT SHIELD ON OFF-PROPERTY SIDES OF FIXTURE TO PREVENT SPILL ONTO ADJACENT PROPERTY

PROVIDE LIGHT SHIELD ON OFF-PROPERTY SIDES OF FIXTURE TO PREVENT SPILL ONTO ADJACENT PROPERTY

PROVIDE LIGHT SHIELD ON OFF-PROPERTY SIDES OF FIXTURE TO PREVENT SPILL ONTO ADJACENT PROPERTY

P/L & R/W

0 LIGHTING EFFECT LINE INTO ADJACENT PROPERTY (TYP.)

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City of Destin
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KEYPLAN

NOT TO SCALE

N

OUTDOOR LIGHTING SHEET 5 OF 8

SEAL

Richard A. Nelson
43333 Mercanto Dr
Mesarina FL 32446
PE# 63050

5-23-14

PINNACLE ENGINEERING GROUP, P.A.

Pinnacle Engineering Group, P.A.

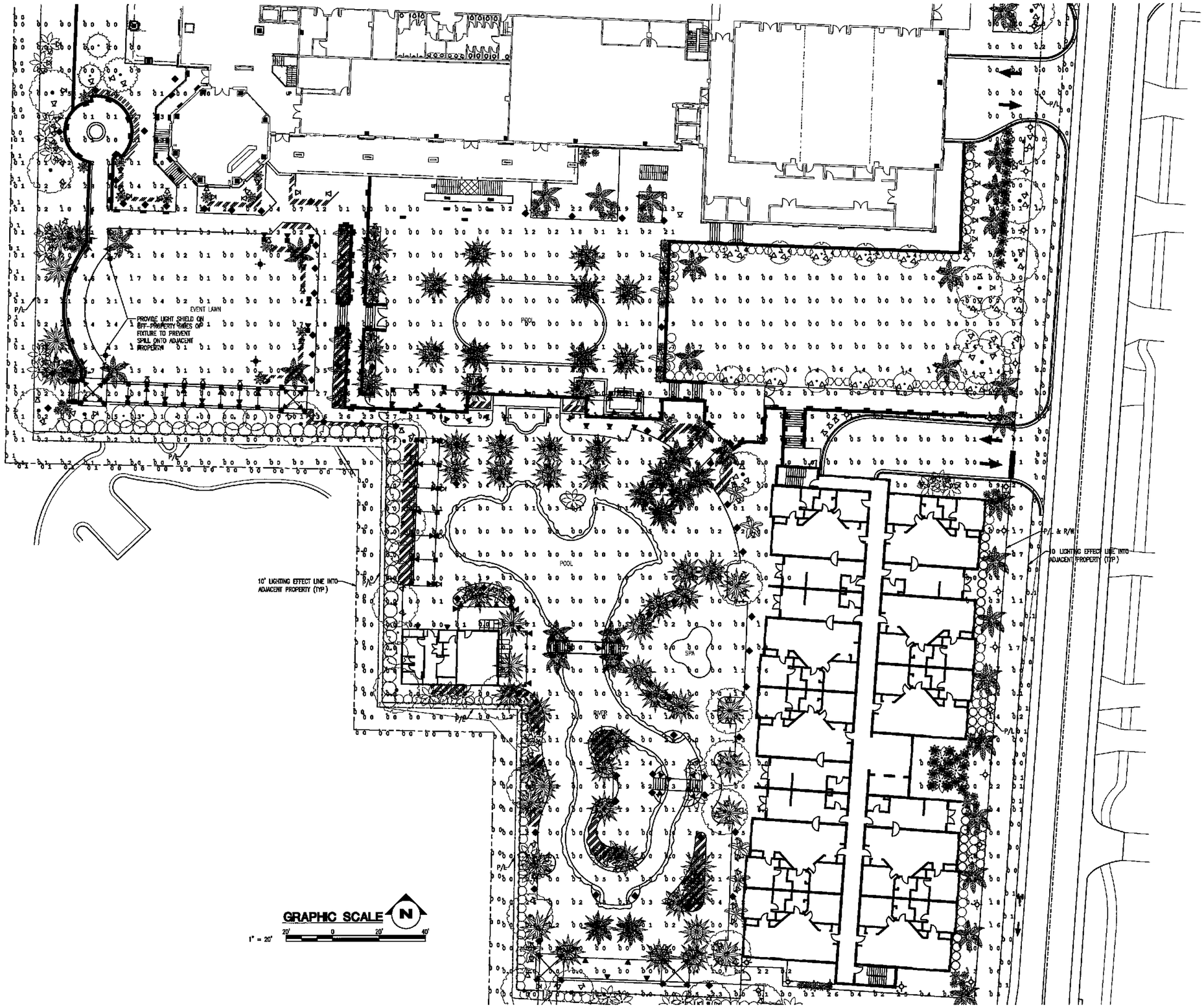
REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-10-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE: OUTDOOR LIGHTING SITE PLAN

FILE	E01 05
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY:	NH
CHECKED BY:	RKF
SHEET No.	E01.05

H:\213-114\E01.04 THRU E01.08.dwg, 3/10/2014 2:16:56 PM, Rachel



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Technical Review Team

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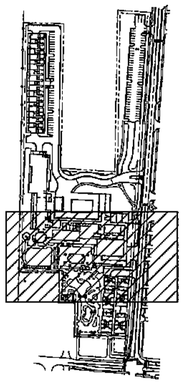


KEYPLAN
NOT TO SCALE

OUTDOOR LIGHTING SHEET 6 OF 8

SEAL
Richard A. Nelson
4333 Maywood Dr
Manatna FL 32446
PE# 63080
5-28-14

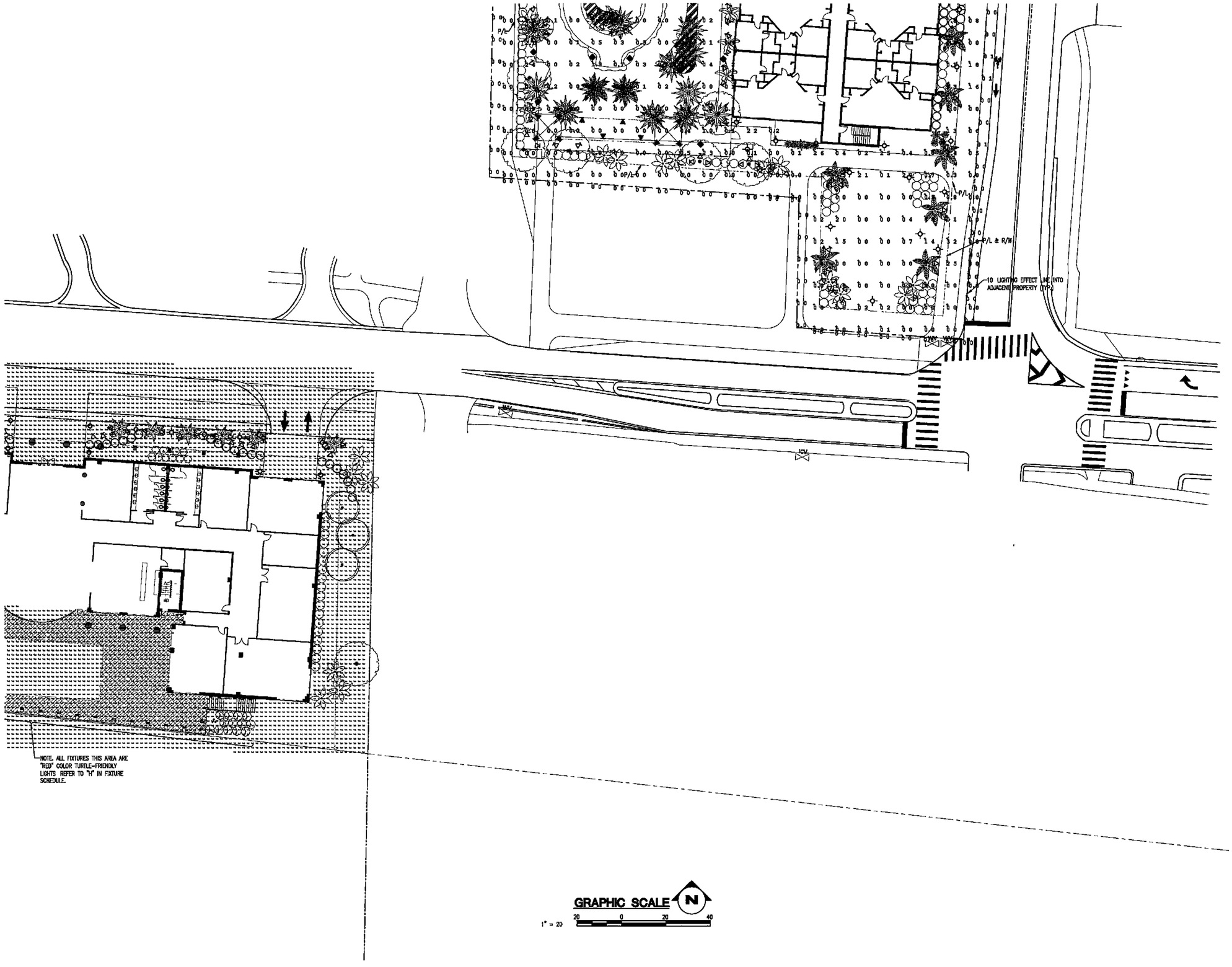
PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.

REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE
OUTDOOR LIGHTING
SITE PLAN

FILE	E01 06
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY	NH
CHECKED BY	RKF
SHEET No.	E01.06



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MAY 23 2014
City of Destin
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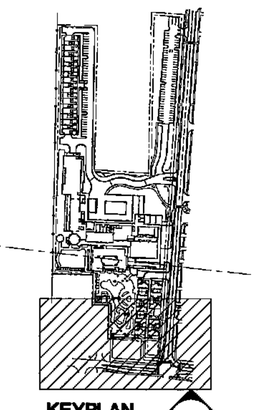


KEYPLAN
NOT TO SCALE
N

OUTDOOR LIGHTING SHEET 7 OF 8

SEAL
Richard A. Nelson
4333 Maywood Dr
Marianna FL 32446
PE# 63080
5-25-14

PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.

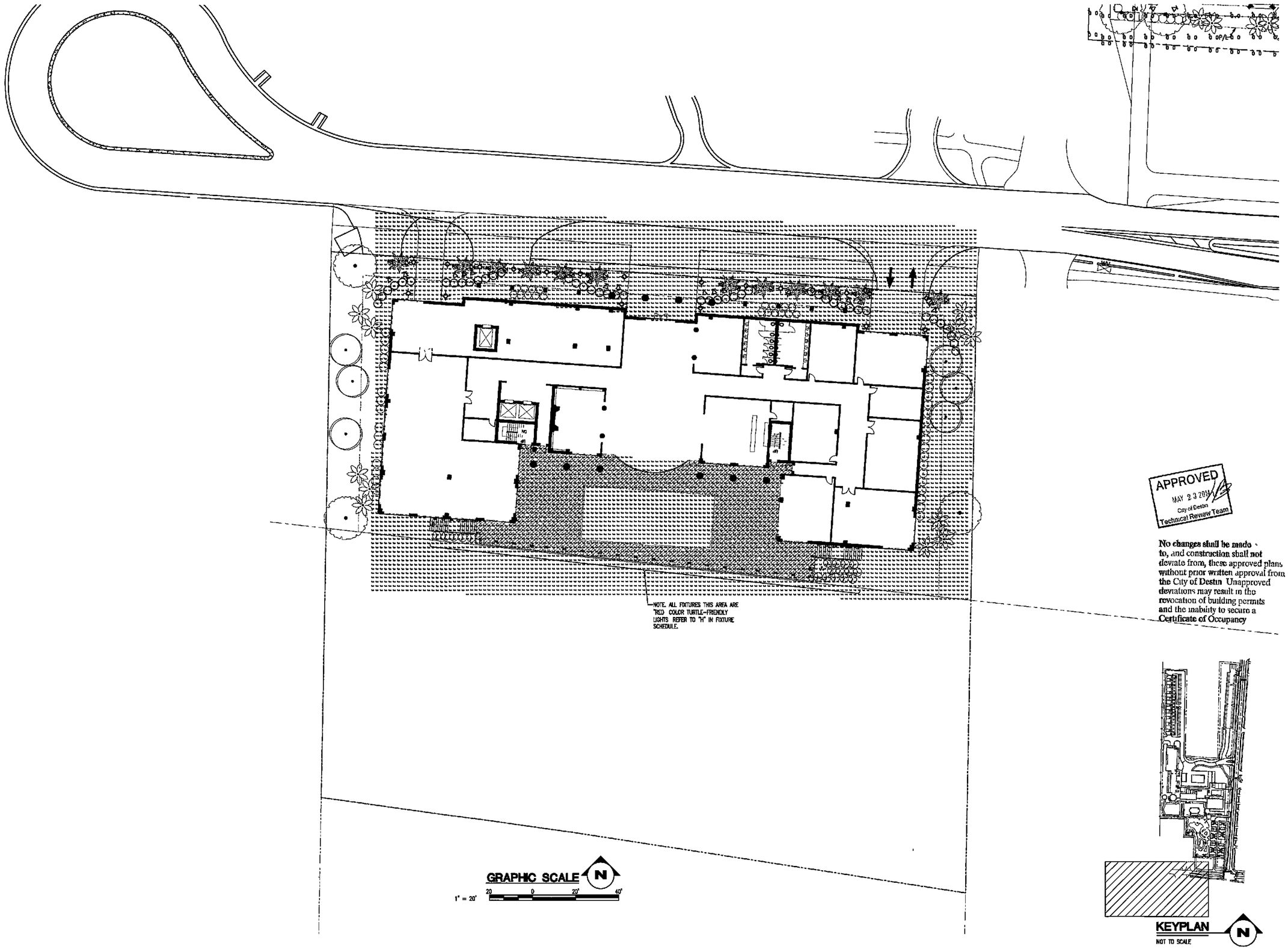
REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE
OUTDOOR LIGHTING
SITE PLAN

FILE	E01 07
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY:	NH
CHECKED BY:	RKF
SHEET No.	

E01.07



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OUTDOOR LIGHTING SHEET 8 OF 8

SEAL
Richard A. Nelson
4333 Maywood Dr
Manatee FL 32446
PE# 63080
5-28-14

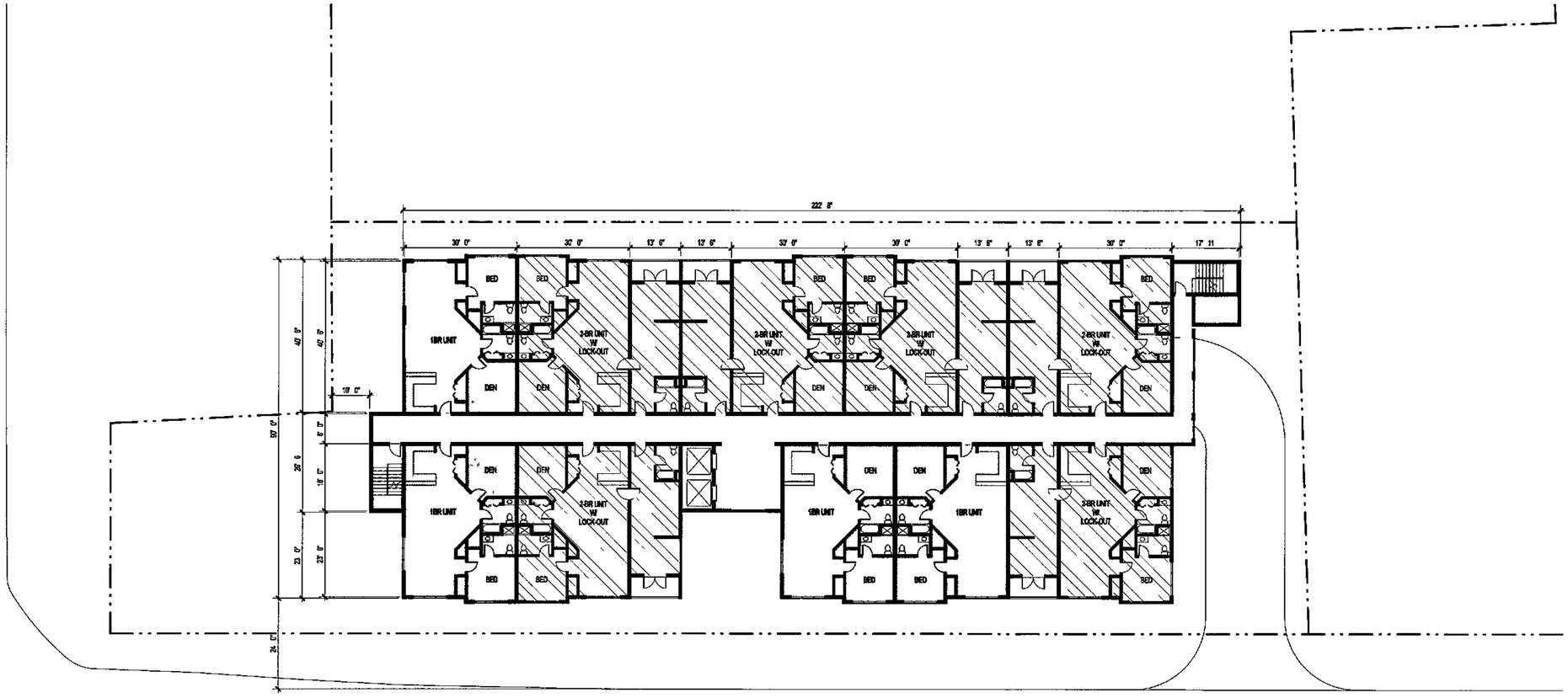
PINNACLE ENGINEERING GROUP, P.A.
Pinnacle Engineering Group, P.A.

REV #	DESCRIPTION	DATE
1	SUBMITTAL REVISION	3-19-14

OUTDOOR LIGHTING
PERMIT DOCUMENTS
HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

DRAWING TITLE
OUTDOOR LIGHTING
SITE PLAN

FILE	E01 07
JOB NO.	213-114
DATE	11/15/13
PLOT SIZE	
DRAWN BY	NH
CHECKED BY	RKF
SHEET No.	E01.08



TOTAL UNITS: (24) 2-BD UNITS + (16) 1-BD UNITS

14-08-SP
Planning

1 PRES-101 TYPICAL LEVEL
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
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COOPER CARRY

ATLANTA WASHINGTON NEW YORK NEWPORT BEACH

191 Peachtree Street NE
Suite 2400
Atlanta, GA 30303-1770
(404) 237-2000
www.coopercarry.com

FL STATE LICENSE # AA26000496

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SCOPE DOCUMENTS

The Construction Documents have not been completed therefore this drawing may be incomplete or not coordinated. The documents issued indicate the general scope of the Project. The Contractor is responsible for complete and coordinated pricing and Work, and shall include all items necessary for the proper execution and completion of the Project, whether indicated or not. All components of the Project shall comply with any and all requirements of national, state and local codes. The Contractor shall inform the Owner and Architect of any omissions, inconsistences or errors in the information provided. If no notice is given and any omissions, inconsistences or errors are discovered, the Architect's decisions on items of Work included in the scope shall be binding on the Contractor when consistent with the general scope and quality of the Project.

ISSUANCES		
No	Drawing Issue Description	Date
1	DEVELOPMENT ORDER	05/28/2014

Henderson Beach Water Park Condominiums

Destin, Florida

TYP. FLOOR PLAN

C Rober Neal	20120033 06
Principal-in-Charge	Project No.
Brandon Danke	05/22/2014
Project Manager	Date
Pope Bullock	
Project Architect	
Edgar A. Gonzales	
Staff Architect	

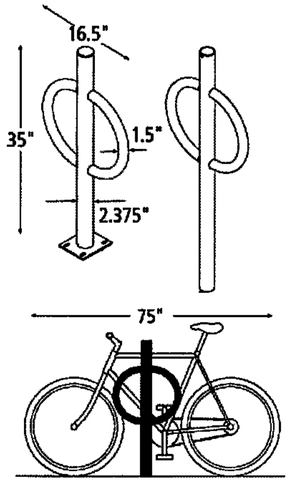
PRES-101

SHEET 1 OF 3

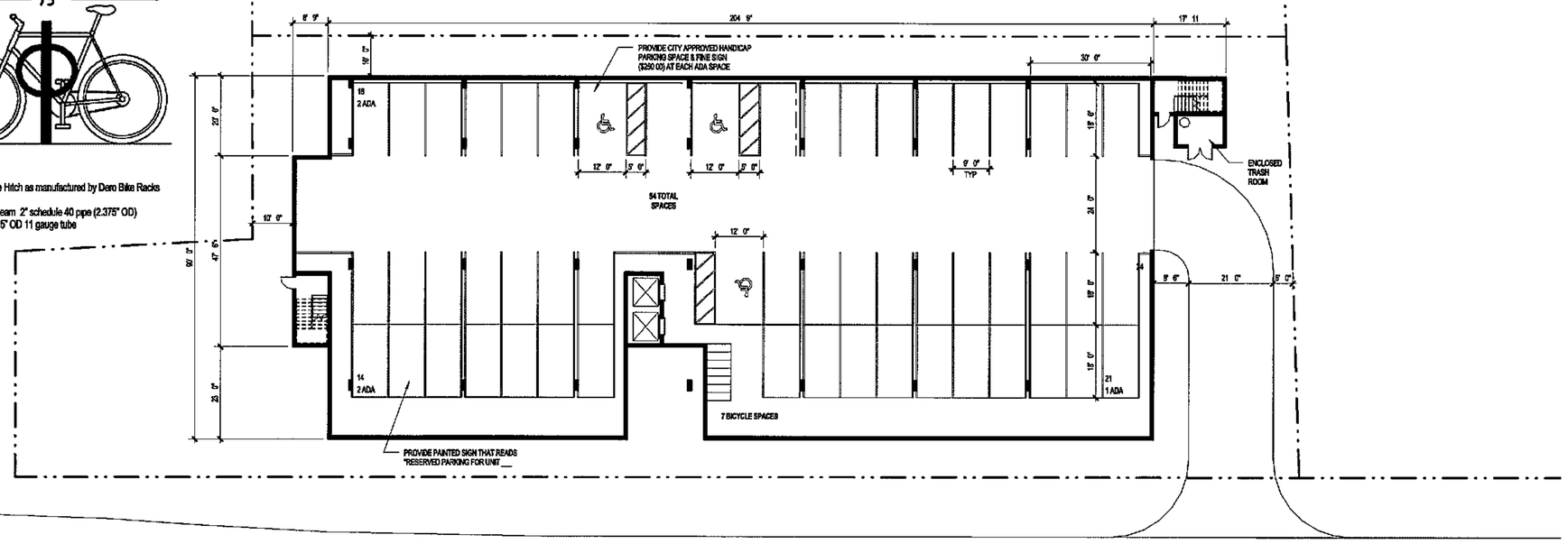
Drawing No.

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER 20120033 06 PROJECT NAME Henderson Beach Water Park Condominiums
SHEET NUMBER PRES-101 - TYP. FLOOR PLAN
C:\Users\gonzalesea\Documents\revit locals\20120033_2013_hb_condo_matthews_central new_gonzalesea.rvt
5/22/2014 1 05 40 PM



Product: Dero Bike Hitch as manufactured by Dero Bike Racks
Capacity: 2 Bikes
Materials: Centerbeam: 2" schedule 40 pipe (2.375" OD)
Ring: 1.5" OD 11 gauge tube



PARKING SPACES:	51
ADA PARKING:	3
TOTAL PARKING SPACES.	54

1 / PRES-102 PARKING
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
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SCOPE DOCUMENTS

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ISSUANCES		
No	Drawing Issue Description	Date
1	DEVELOPMENT ORDER	05/28/2014

Henderson Beach Water Park Condominiums

Destin, Florida

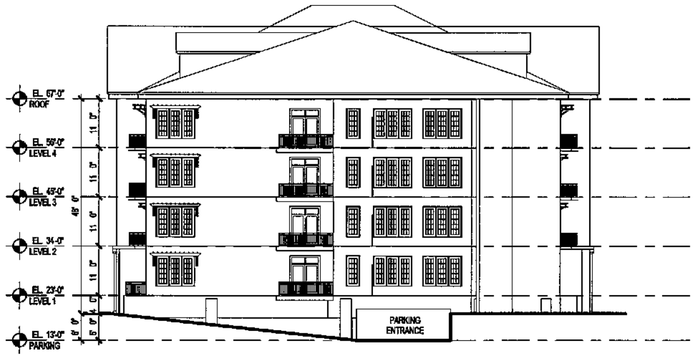
PARKING LEVEL

C. Rober Neal (Principal-in-Charge)	20120033.06 (Project No.)
Brandon Danke (Project Manager)	05/22/2014 (Date)
Pope Bullock (Project Architect)	
Edgar A. Gonzales (Staff Architect)	

PRES-102
SHEET 2 OF 3
Drawing No.

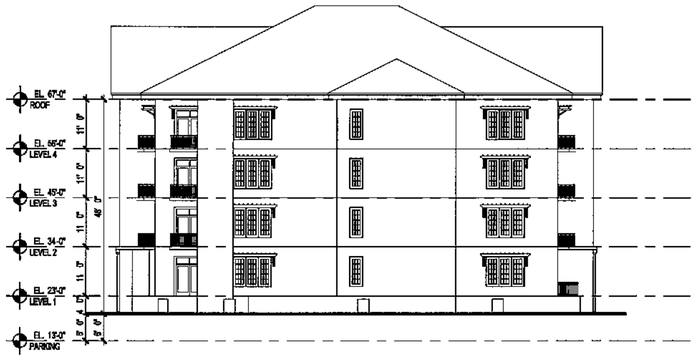
NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20120033.06 PROJECT NAME: Henderson Beach Water Park Condominiums
SHEET NUMBER: PRES-102 - PARKING LEVEL
C:\Users\gonzalese\Documents\revit locals\20120033_2013_hb_condo_matthews_central new_gonzalese.rvt
5/22/2014 1:05:45 PM



1 PRES-103 NORTH
SCALE 1/16" = 1'-0"

2 PRES-103 WEST
SCALE 1/16" = 1'-0"



3 PRES-103 SOUTH
SCALE 1/16" = 1'-0"

4 PRES-103 EAST
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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ISSUANCES		
No	Drawing Issue Description	Date
1	DEVELOPMENT ORDER	05/28/2014

Henderson Beach Water Park Condominiums

Destin, Florida

ELEVATIONS

C. Rober Neal (Principal-in-Charge)	201200330 06 (Project No)
Brandon Danke (Project Manager)	05/22/2014 (Date)
Pope Bullock (Project Architect)	
Edgar A. Gonzales (Staff Architect)	

PRES-103

SHEET 3 OF 3

(Drawing No)

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER 201200330 06 PROJECT NAME Henderson Beach Water Park Condominiums
SHEET NUMBER PRES-103 - ELEVATIONS
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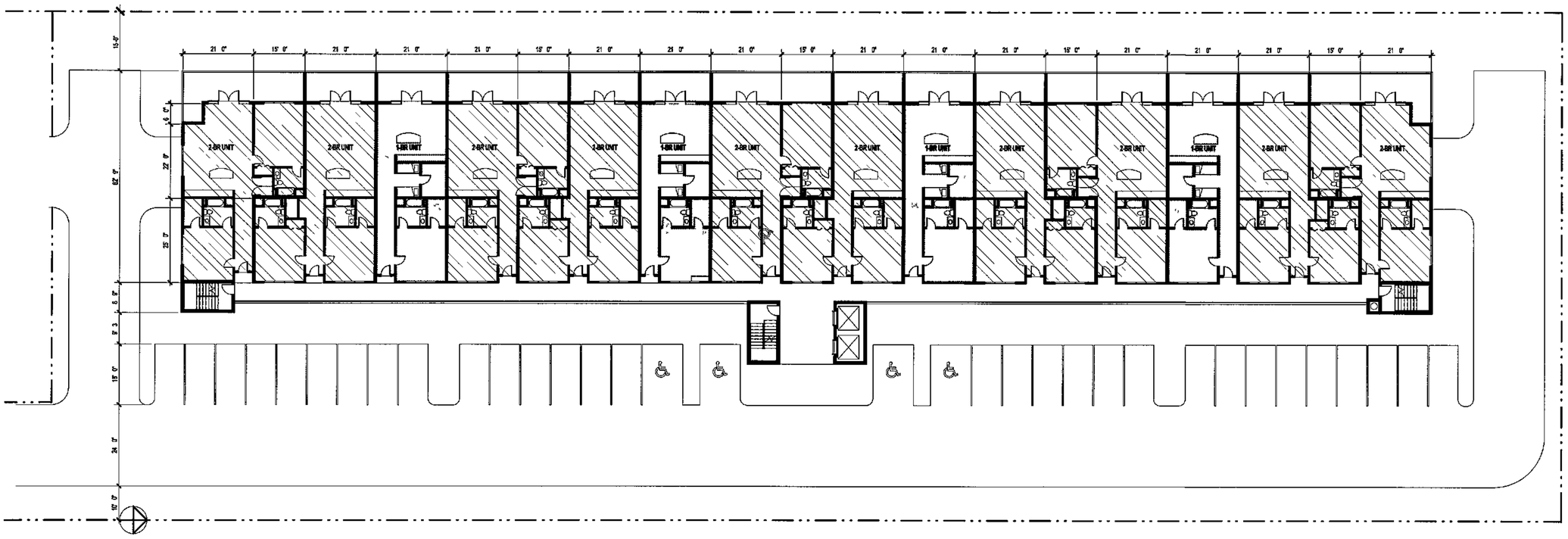
5/22/2014 1 05 55 PM

HENDERSON BEACH STATE PARK



1 PRES-104 TYPICAL LEVEL
SCALE 1/16" = 1' 0"

TOTAL UNITS: (40) 2-BD UNITS + (16) 1-BD UNITS

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Park Side Condominiums

Destin, Florida

TYPICAL LEVEL

Designer	20120033.06
Principal-in-Charge	Project No
Approver	2/14/2014
Project Manager	Date
Checker	
Project Architect	
Author	
Staff Architect	

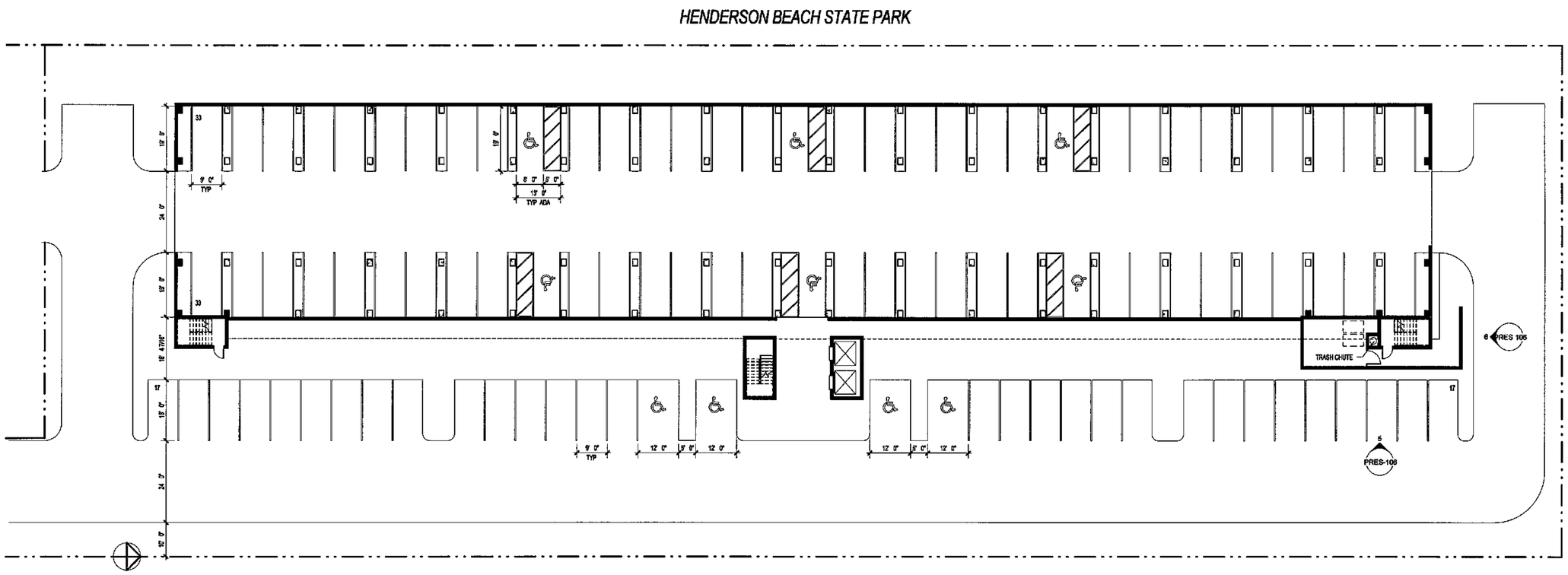
PRES-104

SHEET 1 OF 3

Drawing No

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER 20120033.06 PROJECT NAME Henderson Beach Park Side Condominiums
SHEET NUMBER PRES-104 TYPICAL LEVEL
M:\2012\20120033\d-7 drawings\d-7-1 revit\users\20120033_2013_henderson_condo_bdanke.rvt
2/13/2014 10:57:45 AM



1 PRES-105 PARKING LEVEL
SCALE 1/16" = 1' 0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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PARKING SUMMARY

60 STD SPACES UNDER BUILDING
6 ADA SPACES UNDER BUILDING
30 SPACES ON GRADE (90 DEGREE ADJACENT TO A 24' WIDE DRIVE)
4 ADA SPACES ON GRADE
100 TOTAL PARKING SPACES

NOTE
PROVIDE CITY APPROVED HANDICAP PARKING SPACE AND FINE ($250) SIGN AT EACH ADA SPACE

PROJECT NUMBER 20120033 06 PROJECT NAME Henderson Beach Park Side Condominiums
SHEET NUMBER PRES-105 PARKING LEVEL
M:\2012\20120033\d-7 drawings\d-7-1 revit\users\20120033_2013_henderson_condo_bdanke.rvt
2/13/2014 10 57 45 AM

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Park Side Condominiums

Destin, Florida

PARKING LEVEL

Designer	20120033 06
Principal-In Charge	Project No.
Approver	2/14/2014
Project Manager	Date
Checker	
Project Architect	
Author	
Staff Architect	

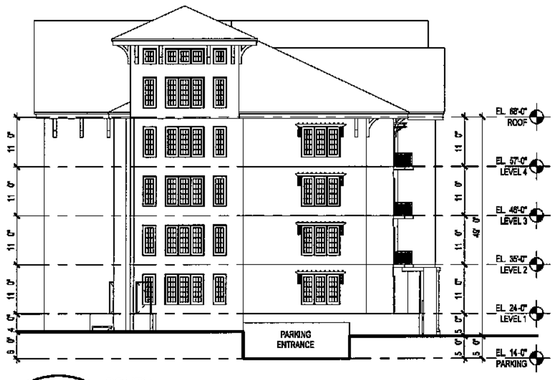
PRES-105

SHEET 2 OF 3

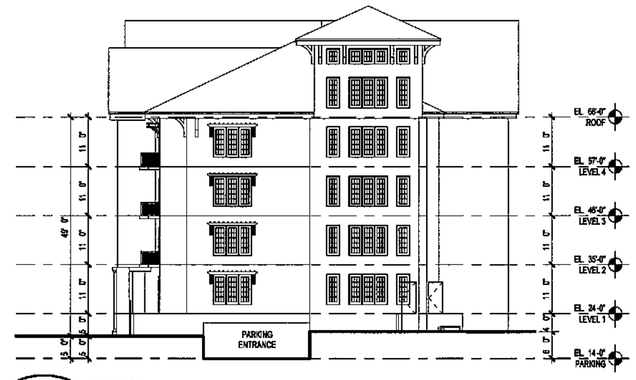
Drawing No.

NOT ISSUED FOR CONSTRUCTION

1 PRES-106 EAST
SCALE 1/16" = 1' 0"



2 PRES-106 SOUTH
SCALE 1/16" = 1'-0"



3 PRES-106 NORTH
SCALE 1/16" = 1'-0"

4 PRES-106 WEST
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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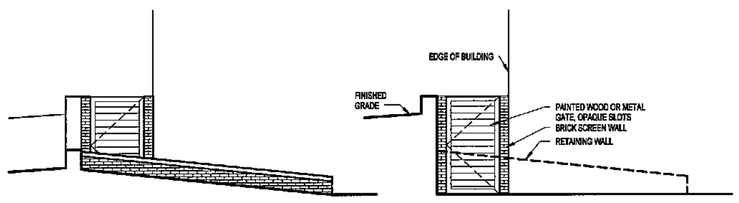
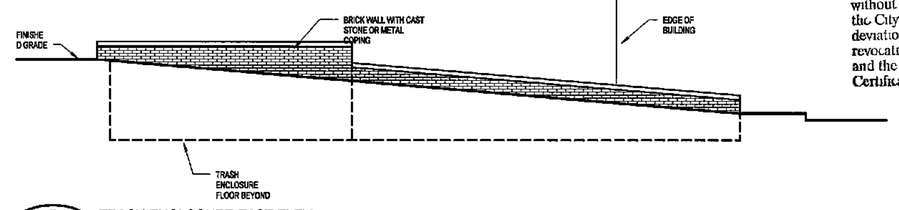


6 PRES-106 TRASH ENCLOSURE NORTH ELEV
SCALE 3/16" = 1' 0"



5 PRES-106 TRASH ENCLOSURE EAST ELEV
SCALE 3/16" = 1'-0"

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Park Side Condominiums

Destin, Florida

ELEVATIONS

Designer	20120033.06
Principal-in-Charge	Project No
Approver	2/14/2014
Project Manager	Date
Checker	
Project Architect	
Author	
Staff Architect	

PRES-106

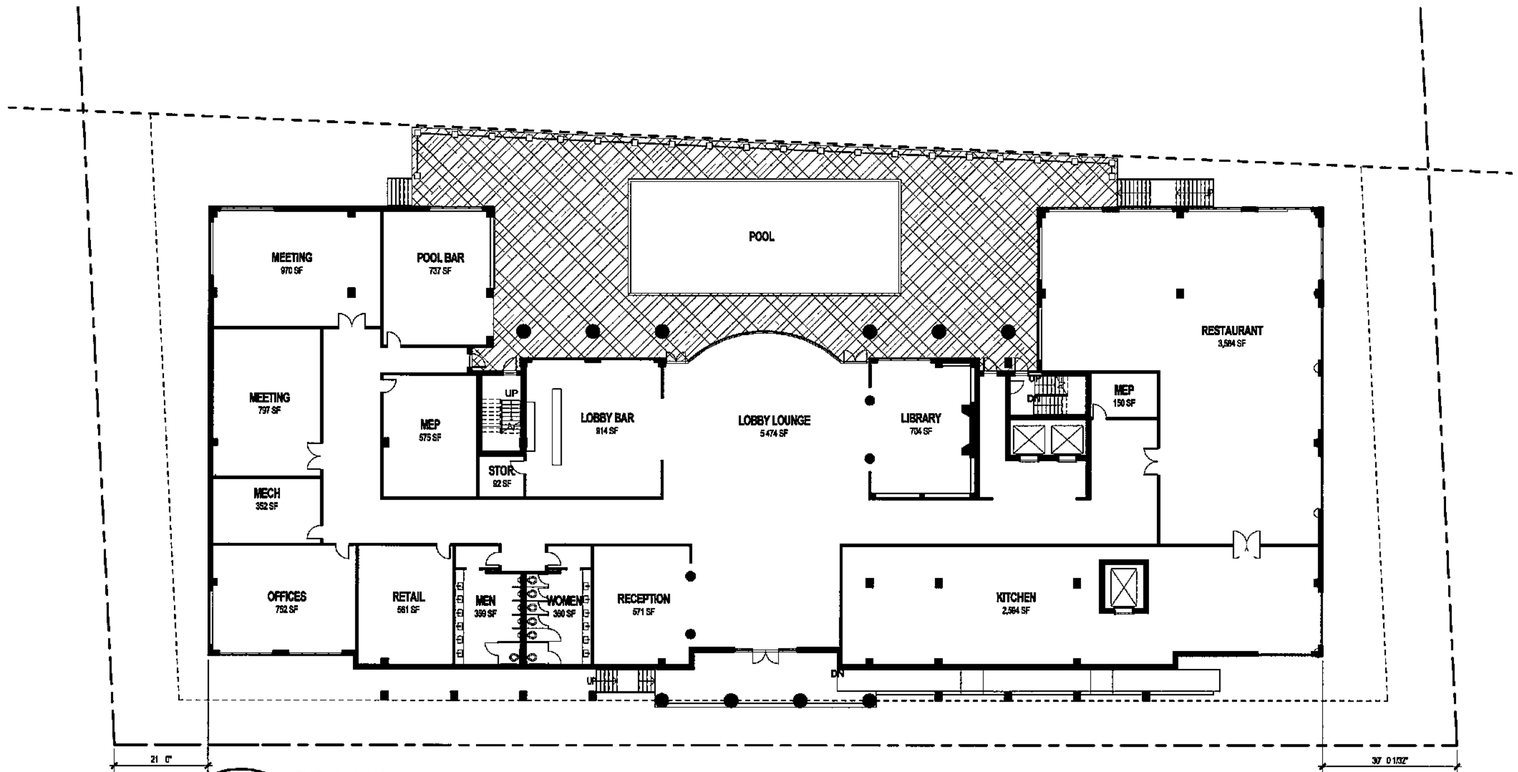
Drawing No

NOT ISSUED FOR CONSTRUCTION

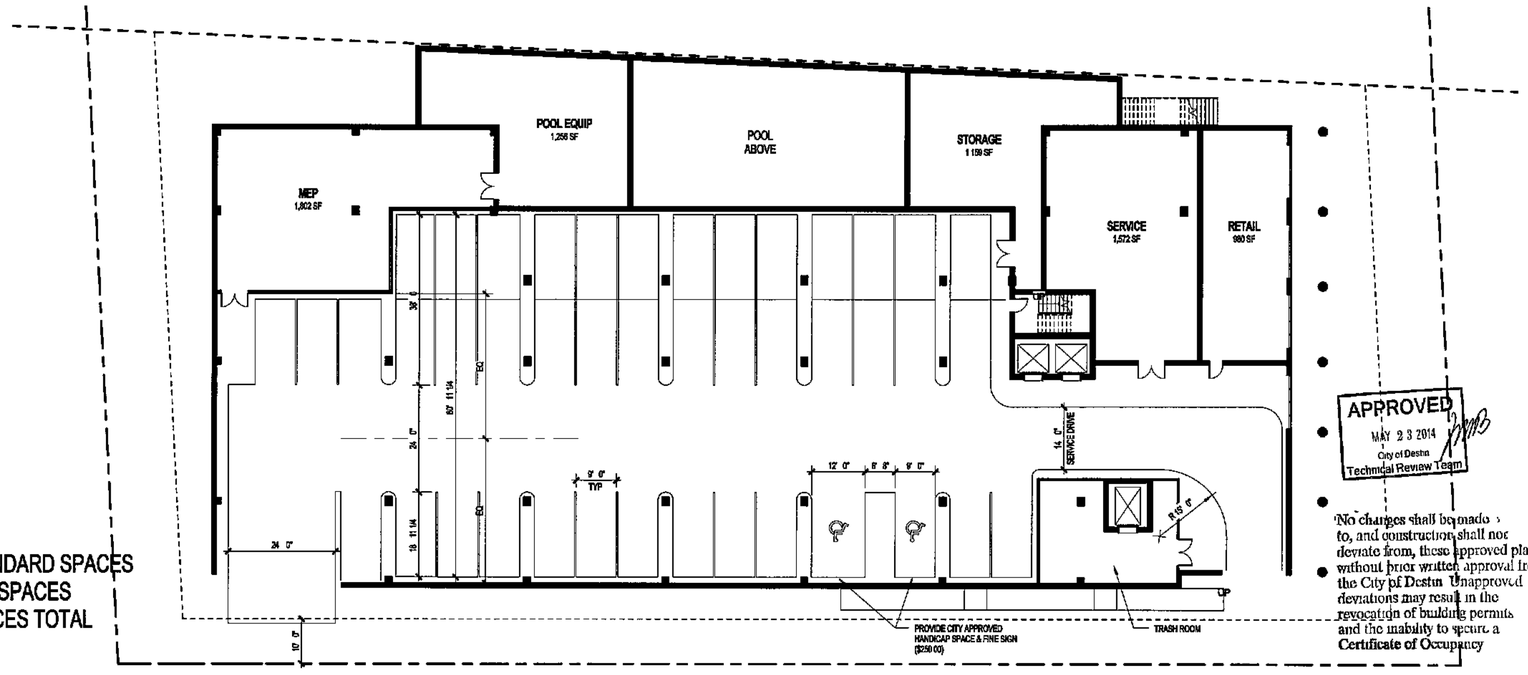
PROJECT NUMBER 20120033.06 PROJECT NAME Henderson Beach Park Side Condominiums
SHEET NUMBER PRES-106 - ELEVATIONS
M:\2012\20120033\d-7 drawings\d-7-1 revit\users\20120033_2013_henderson_condo_bdanke.rvt
2/13/2014 10:57:46 AM

Room Schedule Lvl 1	
Name	Area
KITCHEN	2,594 SF
LIBRARY	704 SF
LOBBY BAR	914 SF
LOBBY LOUNGE	5,474 SF
MECH	352 SF
MEETING	970 SF
MEETING	797 SF
MEN	359 SF
MEP	575 SF
MEP	150 SF
OFFICES	752 SF
POOL BAR	737 SF
RECEPTION	571 SF
RESTAURANT	3,584 SF
RETAIL	561 SF
STOR	92 SF
WOMEN	360 SF

Area Schedule	
Level	Area
LEVEL 1	21,418 SF
LEVEL 2	21,519 SF



1 A2.01 LEVEL 1 - 1/16"
SCALE 1/16" = 1'-0"



41 STANDARD SPACES
2 ADA SPACES
43 SPACES TOTAL

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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2 A2.01 PARKING LEVEL - 1/16"
SCALE 1/16" = 1'-0"

PROJECT NUMBER 20120033 PROJECT NAME Henderson Beach Resort - Beachside
SHEET NUMBER A2.01 - Parking & 1st Floor Plan
C:\Users\gonzalese\Documents\revit locals\20120033_2013_hb_beachside_rev2_gonzalese.rvt
3/19/2014 3 43 55 PM

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Resort - Beachside

DESTIN, FLORIDA
DUNAVANT ENTERPRISES, INC

Parking & 1st Floor Plan

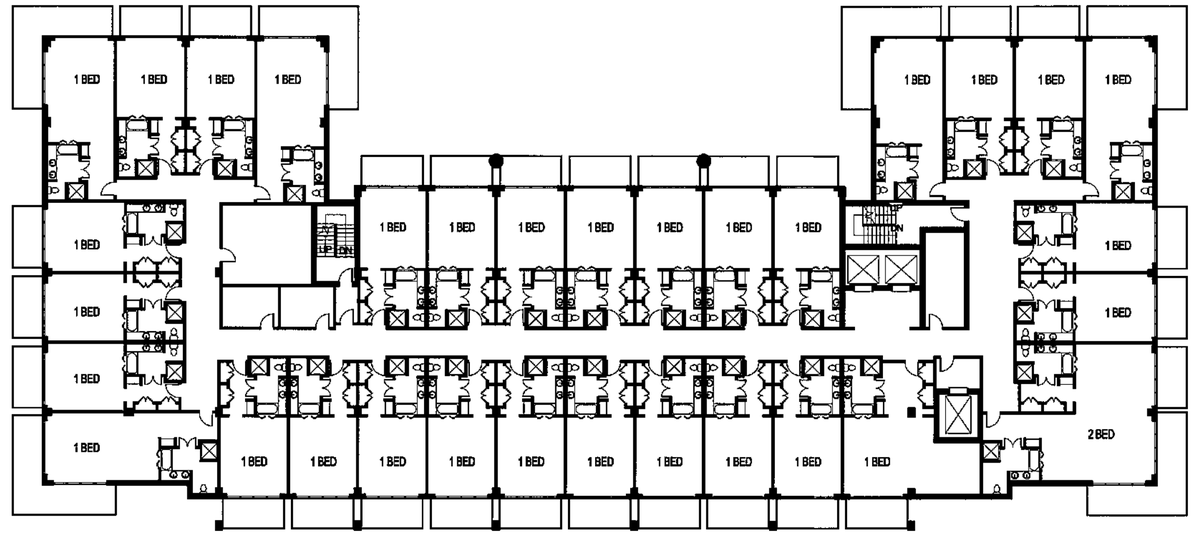
C. Robert Neal (Principal-in-Charge)	20120033 (Project No)
Pope Bullock (Project Manager)	03/19/14 (Date)
Brandon Danke (Project Architect)	
Edgar A. Gonzales (Staff Architect)	

A2.01

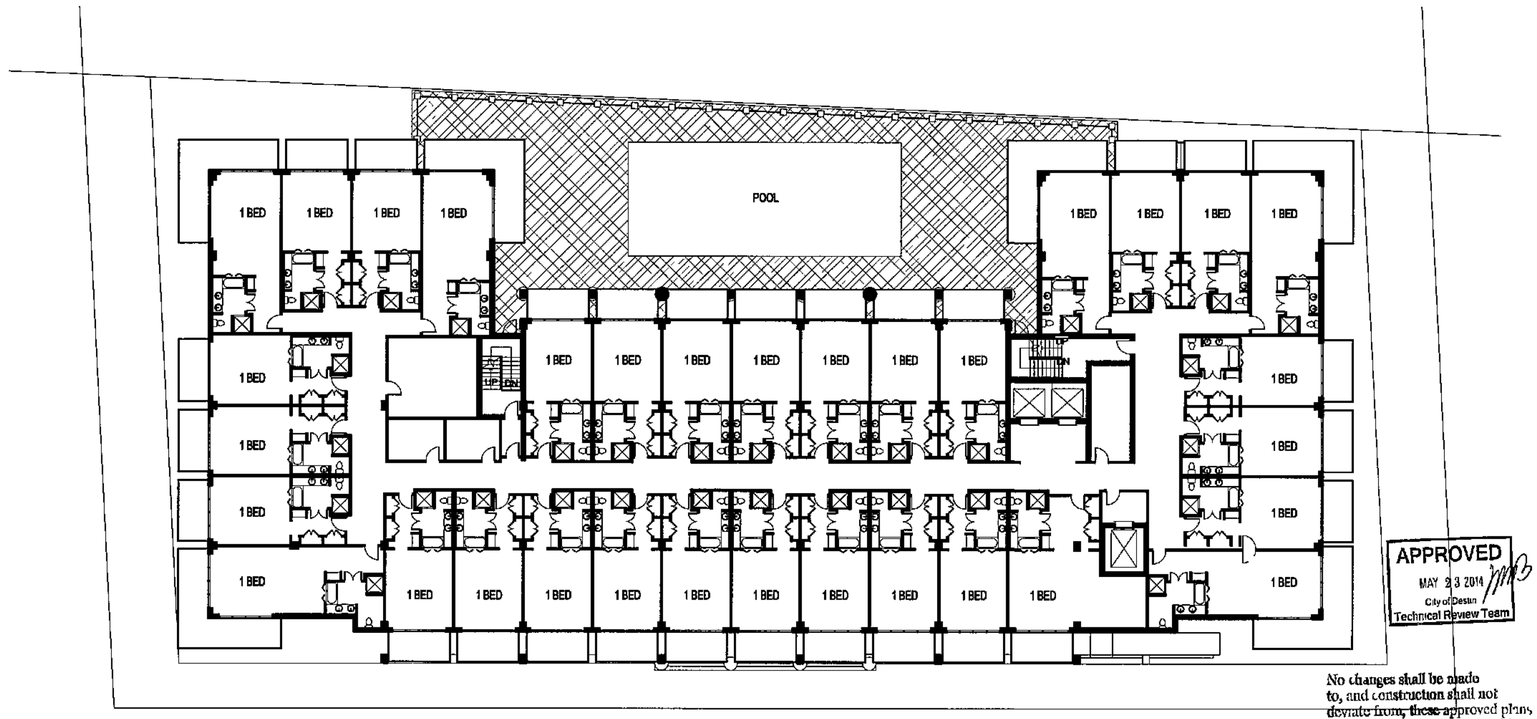
SHEET 1 OF 1
Drawing No.

NOT ISSUED FOR CONSTRUCTION

UNITS SUMMARY	
LEVEL	UNITS
2	33 UNITS
3	32 UNITS
4	32 UNITS
	97 UNITS



2 / A2 02 LEVEL 3 & 4
SCALE 1/16" = 1'-0"



1 / A2 02 LEVEL 2
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Resort - Beachside

DESTIN, FLORIDA

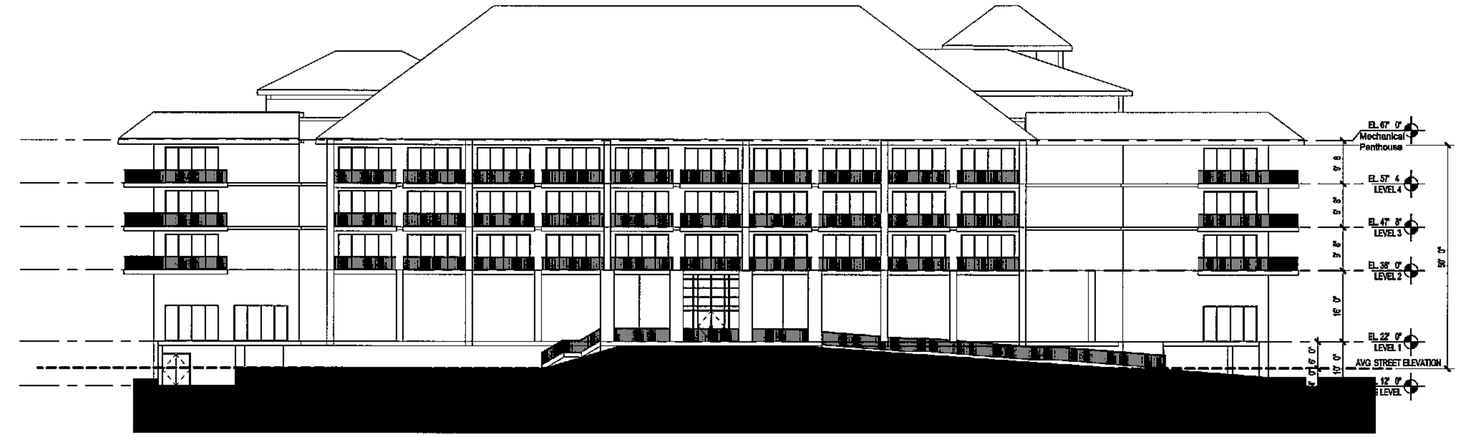
DUNAVANT ENTERPRISES, INC

3rd & 4th Floor Plan

C. Robert Neal (Principal-in-Charge)	20120033 (Project No.)
Pope Bullock (Project Manager)	03/19/14 (Date)
Brandon Danke (Project Architect)	
Edgar A. Gonzales (Staff Architect)	A2.02
	SHEET 2 OF 3
	Drawing No.

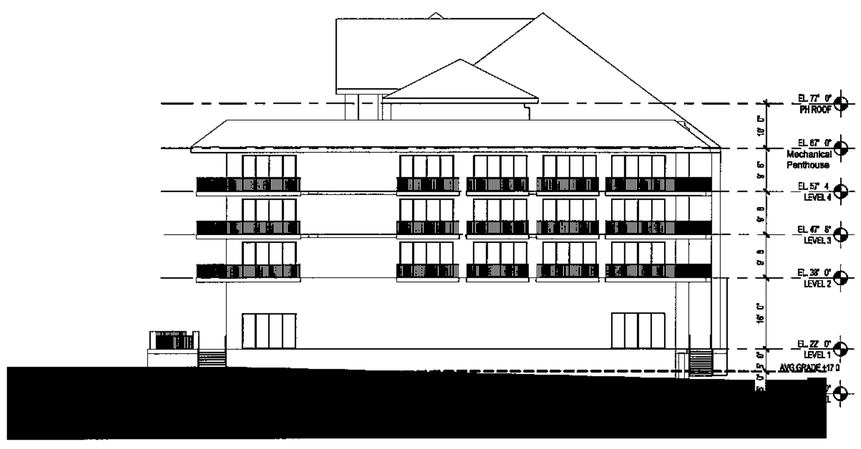
NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20120033 PROJECT NAME: Henderson Beach Resort - Beachside
SHEET NUMBER: A2.02 3rd & 4th Floor Plan
C:\Users\gonzalese\Documents\revit locals\20120033_2013_hb_beachside_rev2_gonzalese.rvt
3/19/2014 3:43:59 PM



3 A2.03 NORTH ELEV
SCALE 1/16" = 1'-0"

2 A2.03 SOUTH ELEV
SCALE 1/16" = 1'-0"



5 A2.03 EAST ELEV
SCALE 1/16" = 1'-0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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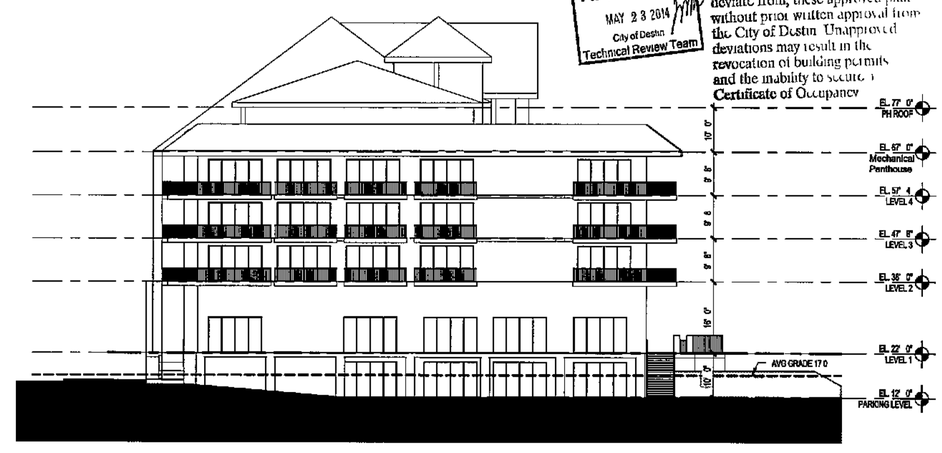

4 A2.03 WEST ELEV
SCALE 1/16" = 1'-0"

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ISSUANCES		
No	Drawing Issue Description	Date

Henderson Beach Resort - Beachside

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

Exterior Elevations

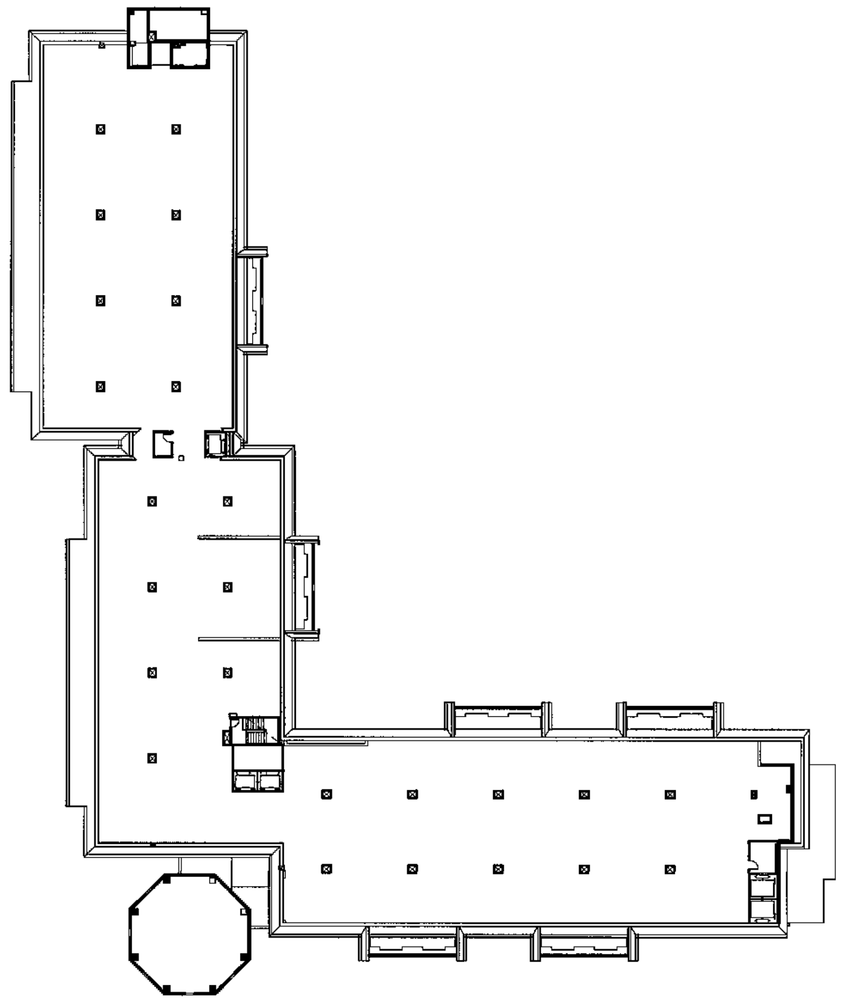
C. Robert Neal (Principal-in-Charge)	20120033 (Project No.)
Pope Bullock (Project Manager)	03/19/14 (Date)
Brandon Danke (Project Architect)	
Edgar A. Gonzales (Staff Architect)	

A2.03

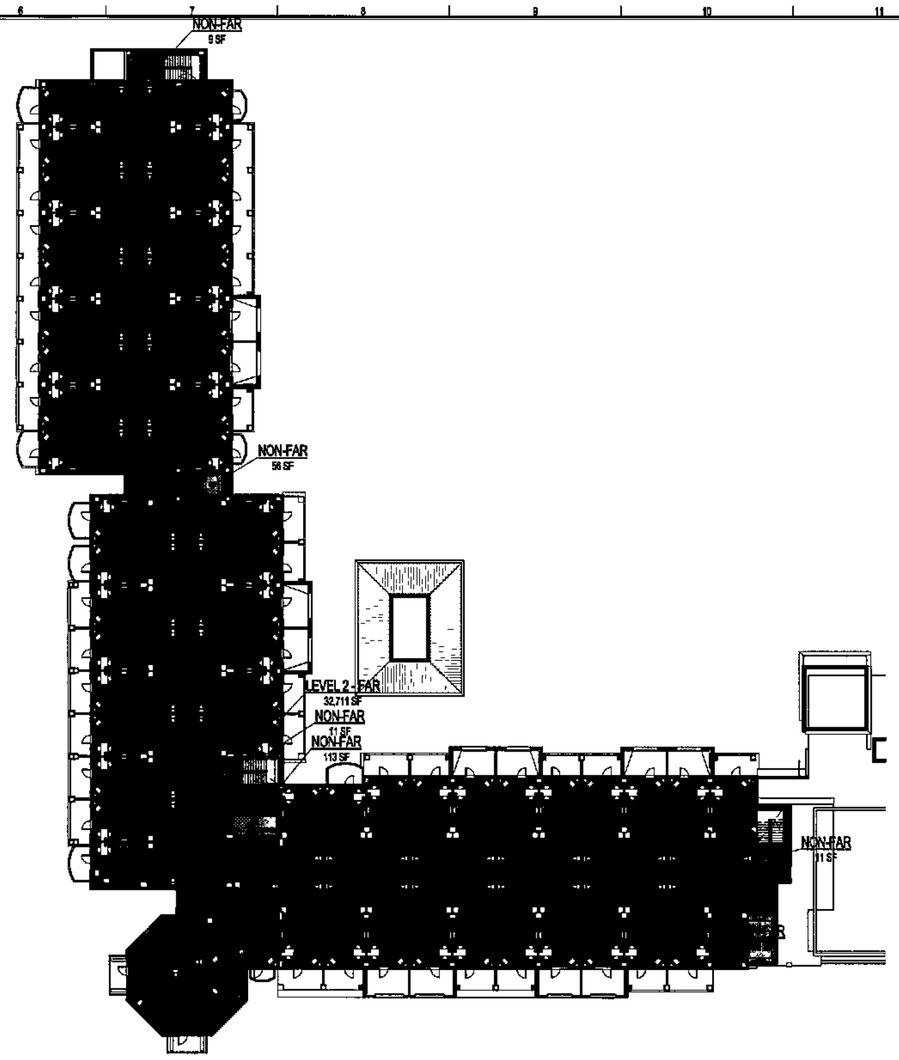
SHEET 3 OF 3
Drawing No.

NOT ISSUED FOR CONSTRUCTION

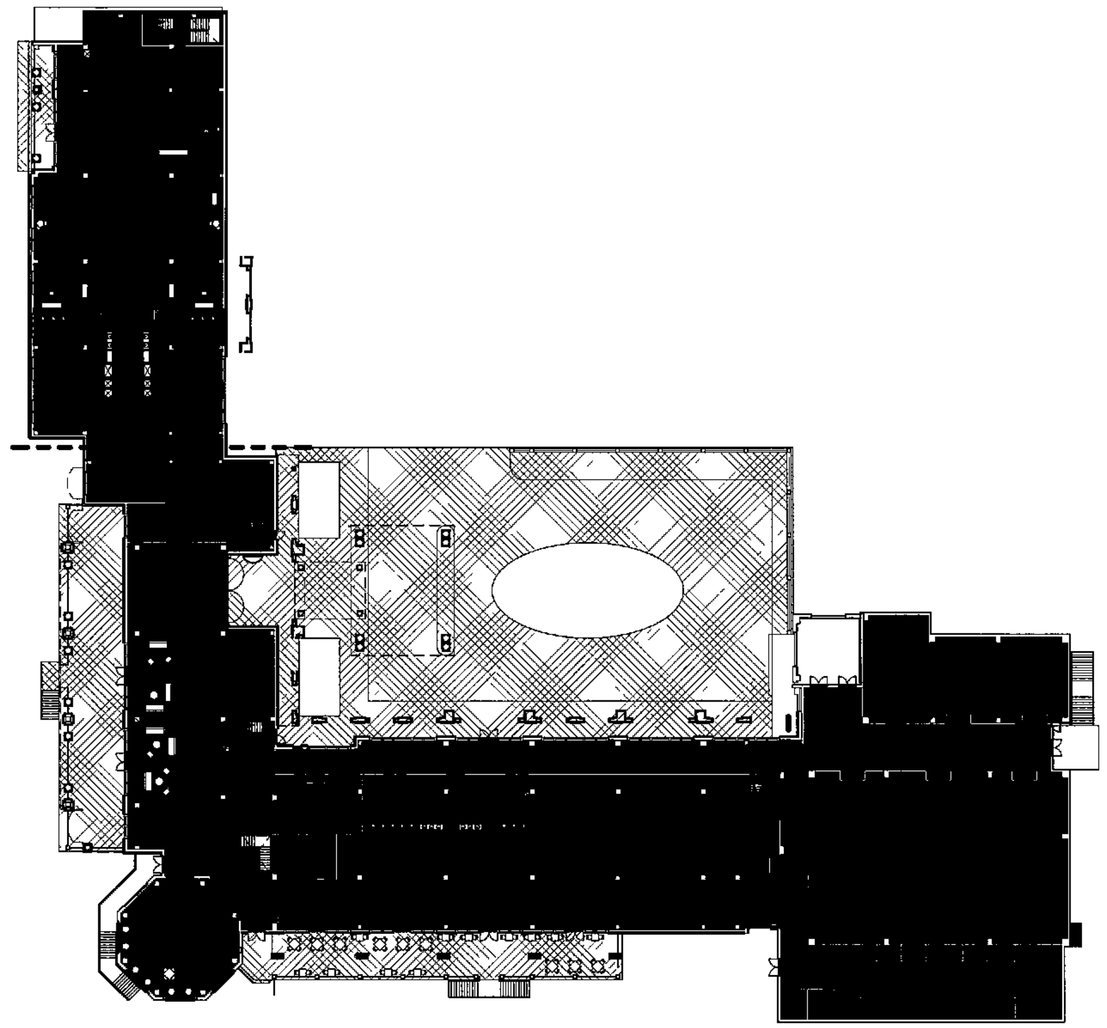
PROJECT NUMBER: 20120033 PROJECT NAME: Henderson Beach Resort - Beachside
SHEET NUMBER: A2.03 Exterior Elevations
C:\Users\gonzalesea\Documents\revit locals\20120033_2013_hb_beachside_rev2_gonzalesea.rvt
3/19/2014 3:44:16 PM



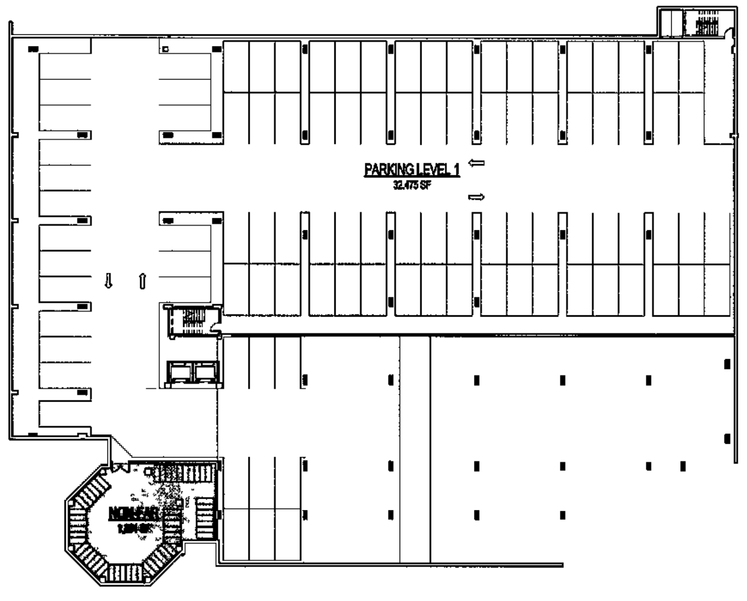
2 DD-A1.00 ATTIC
SCALE 1" = 30'-0"



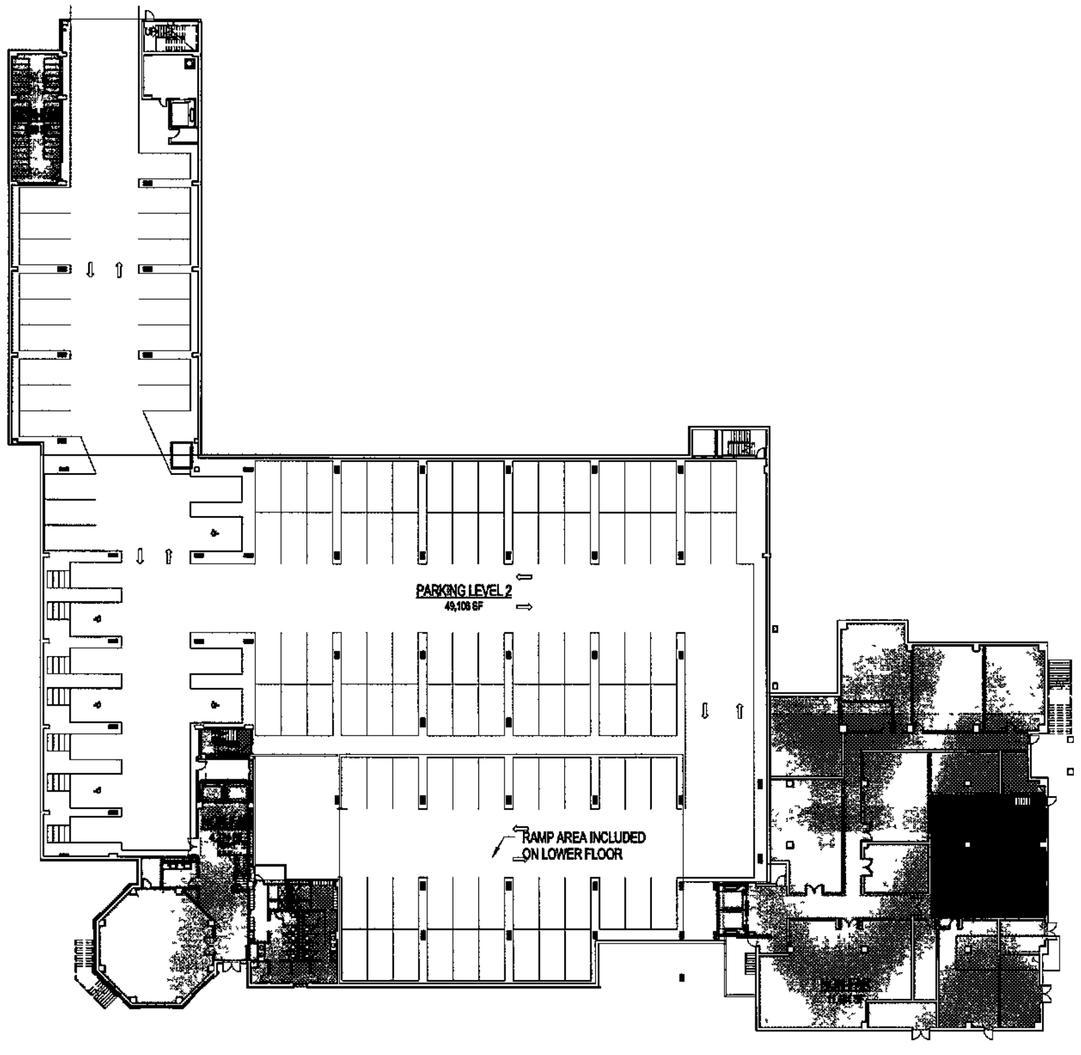
3 DD-A1.00 TYPICAL GUESTROM LEVEL (2-4)
SCALE 1" = 30'-0"



1 DD-A1.00 LEVEL 1
SCALE 1" = 30'-0"



7 DD-A1.00 PARKING LVL 1
SCALE 1" = 30'-0"



4 DD-A1.00 PARKING LVL 2
SCALE 1" = 30'-0"

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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BUILDING AREA BY FAR		
Name	Area	Comments
LEVEL 1 - FAR	44,959 SF	FAR
LEVEL 2 - FAR	32,711 SF	FAR
LEVEL 3 - FAR	32,711 SF	FAR
LEVEL 4 - FAR	32,711 SF	FAR
	143,092 SF	
LOADING	1,766 SF	NON-FAR
NON-FAR	19,556 SF	NON-FAR
PARKING LEVEL 1	32,475 SF	NON-FAR
PARKING LEVEL 2	49,106 SF	NON-FAR
	102,902 SF	

FAR RATIO.
143,092 SF / 358,063.2 SF = 0.4

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SCOPE DOCUMENTS

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FL STATE LICENSE # AA26000496

ISSUANCES		
No	Drawing Issue Description	Date
	DD Set	10/01/2013

CPAm!

HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

FAR GROSS BUILIDNG AREA PLANS

C Robert Neal	20120033.01
Principal-in-Charge	Project No.
Pope Bullock	05/22/2014
Project Manager	Date
Brandon Danka	
Project Architect	
Edgar Gonzales	
Staff Architect	

DD-A1.00

SHEET 1 OF 6

Drawing No.

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20120033.01 PROJECT NAME: HENDERSON BEACH RESORT HOTEL
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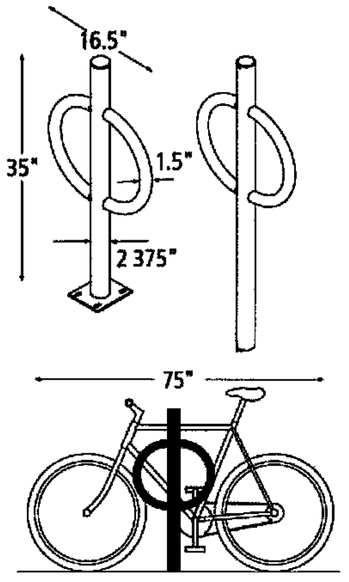
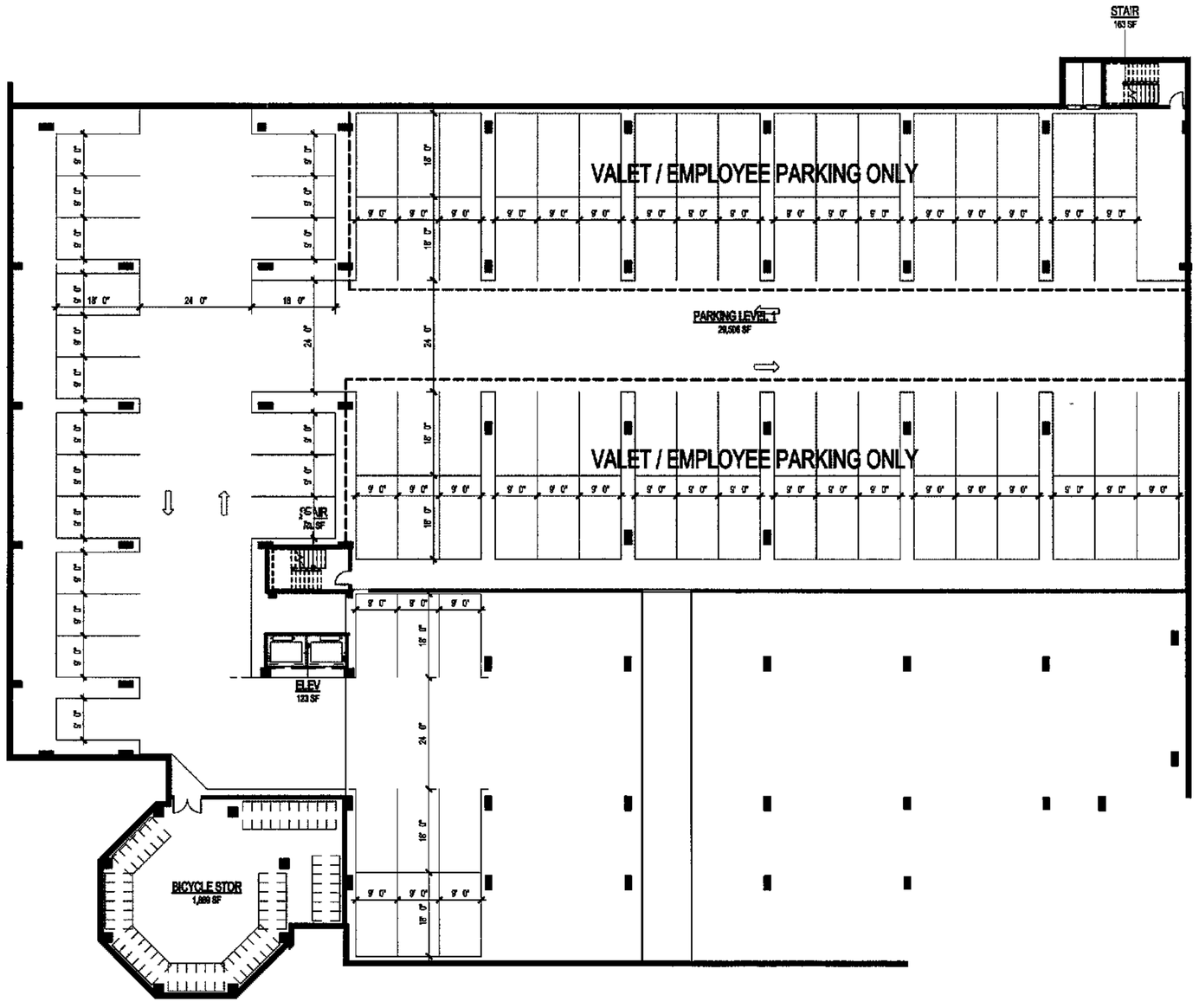


Product: Dero Bike Hitch as manufactured by Dero Bike Racks
Capacity: 2 Bikes
Materials: Centerbeam 2" schedule 40 pipe (2.375" OD)
Ring 1.5" OD 11 gauge tube



1 DD-A1.01 PARKING LVL 1
SCALE 1/16" = 1'-0"

APPROVED
MAY 2 3 2014
City of Destin
Technical Review Team

No changes shall be made to, and construction shall not deviate from, these approved plans without prior written approval from the City of Destin. Unapproved deviations may result in the revocation of building permits and the inability to secure a Certificate of Occupancy

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(404) 237-2000
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ISSUANCES		
No	Drawing Issue Description	Date
	DD Set	10/01/2013

HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

OVERALL PARKING LEVEL 1 FLOOR PLAN

C. Robert Neal	20120033.01
Principal-in-Charge	Project No
Pope Bullock	05/22/2014
Project Manager	Date
Brandon Danke	
Project Architect	
Edgar Gonzales	
Staff Architect	

DD-A1.01

SHEET 2 OF 6

Drawing No.

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20120033.01 PROJECT NAME: HENDERSON BEACH RESORT HOTEL
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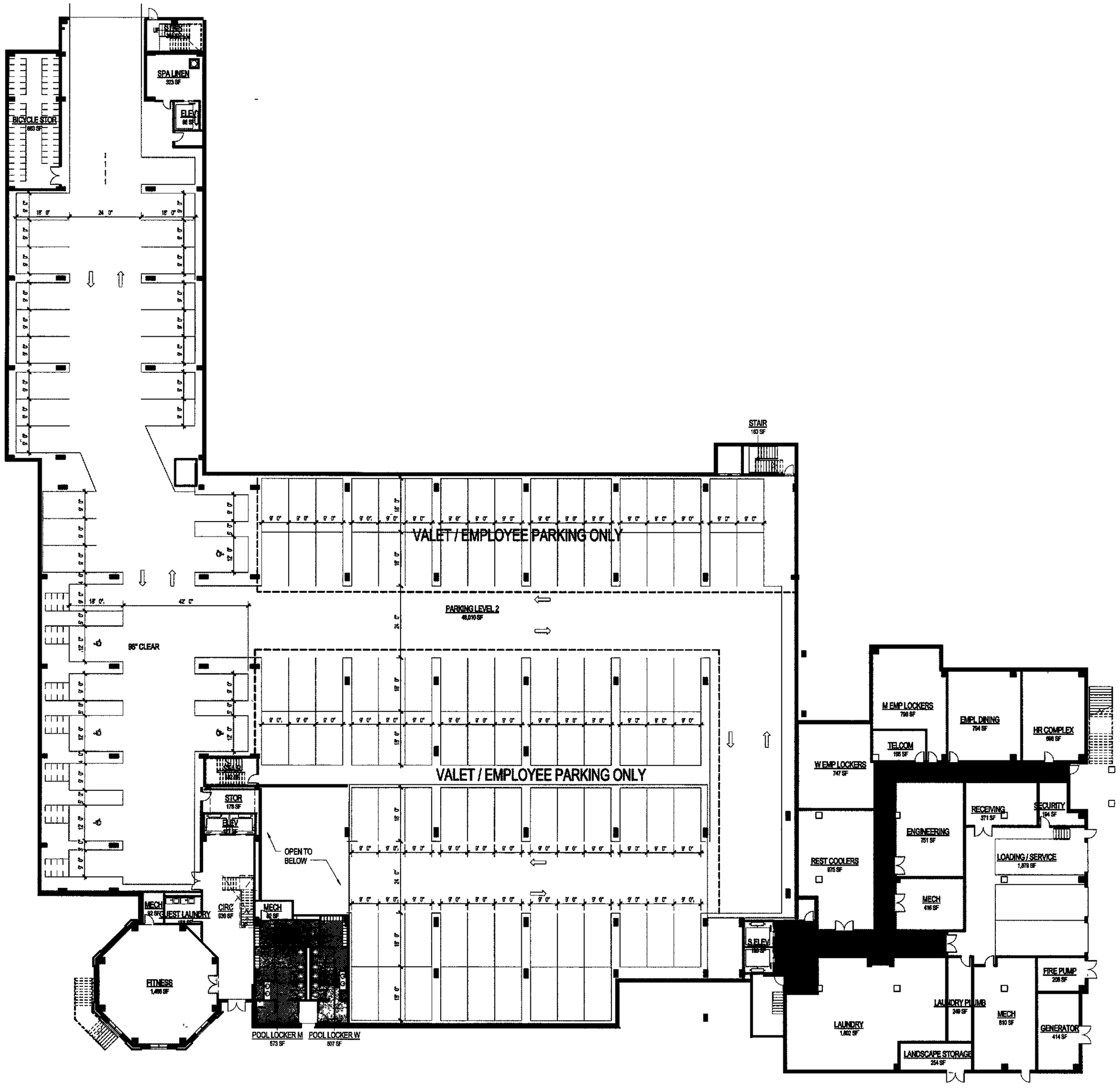

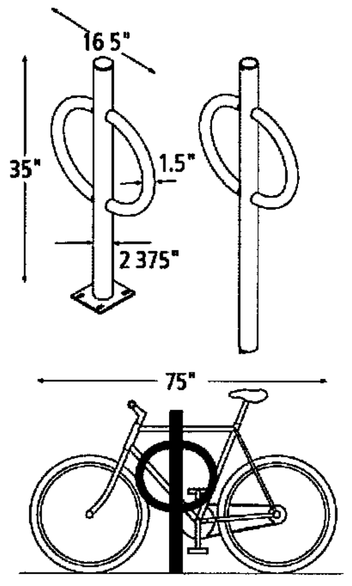

Product: Dero Bike Hitch as manufactured by Dero Bike Racks
Capacity 2 Bikes
Materials Centerbeam 2" schedule 40 pipe (2 375" OD)
Ring 1 5" OD 11 gauge tube

APPROVED
MAY 2 3 2014
City of Destin
Technical Review Team

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1 DD-A1 02 PARKING LVL 2
SCALE 1/16" = 1'-0"

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ISSUANCES		
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HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

OVERALL PARKING LEVEL 2 FLOOR PLAN

C Robert Neal	20120033 01
Principal-in-Charge	Project No
Pope Bullock	05/22/2014
Project Manager	Date
Brandon Danke	
Project Architect	
Edgar Gonzales	
Staff Architect	

DD-A1.02

SHEET 3 OF 6

Drawing No

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER 20120033 01 PROJECT NAME HENDERSON BEACH RESORT HOTEL
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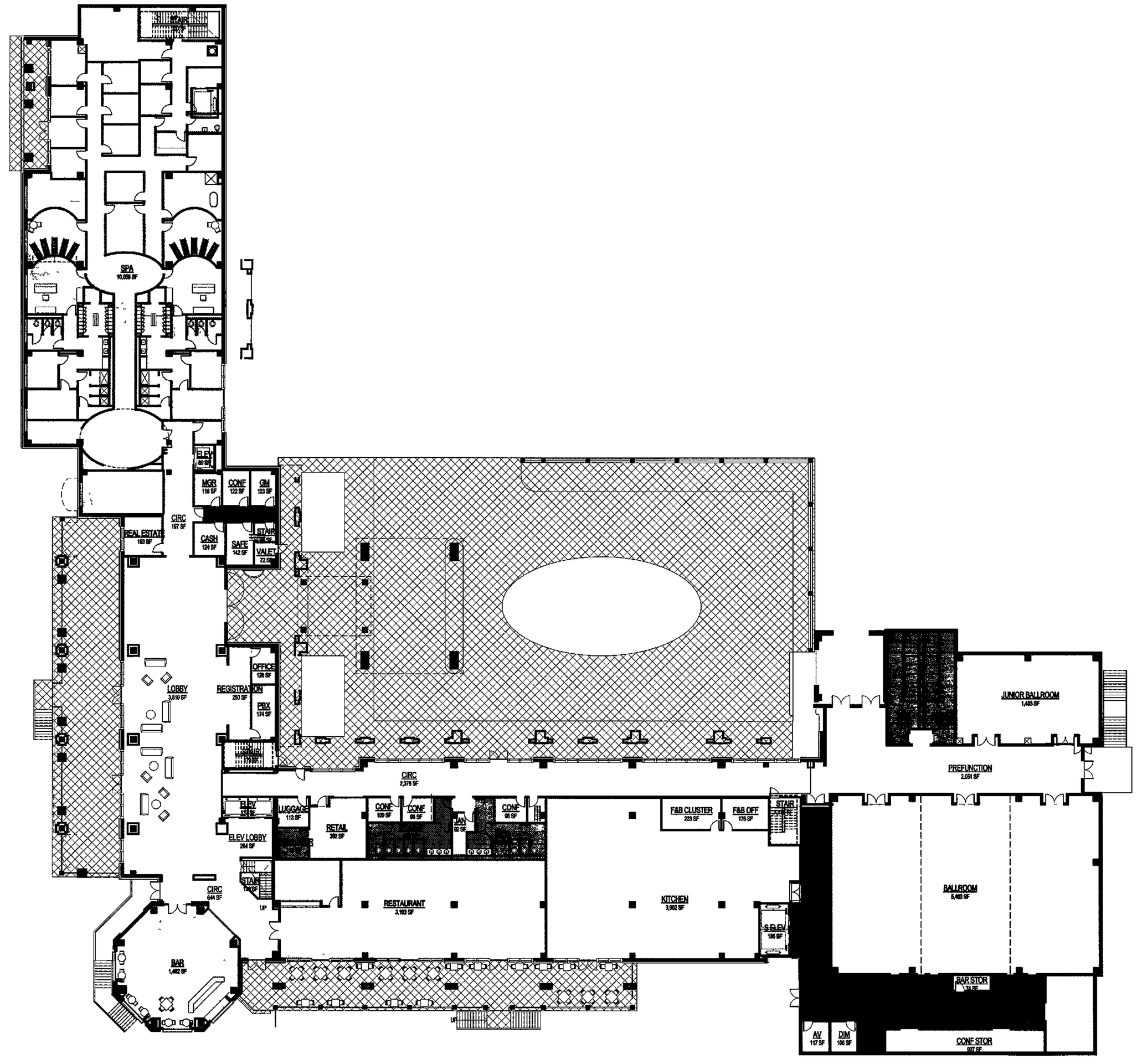

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MAY 23 2014
City of Destin
Technical Review Team

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1 DD-A1.03 LEVEL 1
SCALE 1/16" = 1'-0"

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HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

OVERALL GROUND FLOOR PLAN

C Robert Neal Principal-in-Charge	201203301 Project No
Pope Bullock Project Manager	05/22/2014 Date
Brandon Danke Project Architect	
Edgar Gonzales Staff Architect	

DD-A1.03

SHEET 4 OF 6

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 201203301 PROJECT NAME: HENDERSON BEACH RESORT HOTEL
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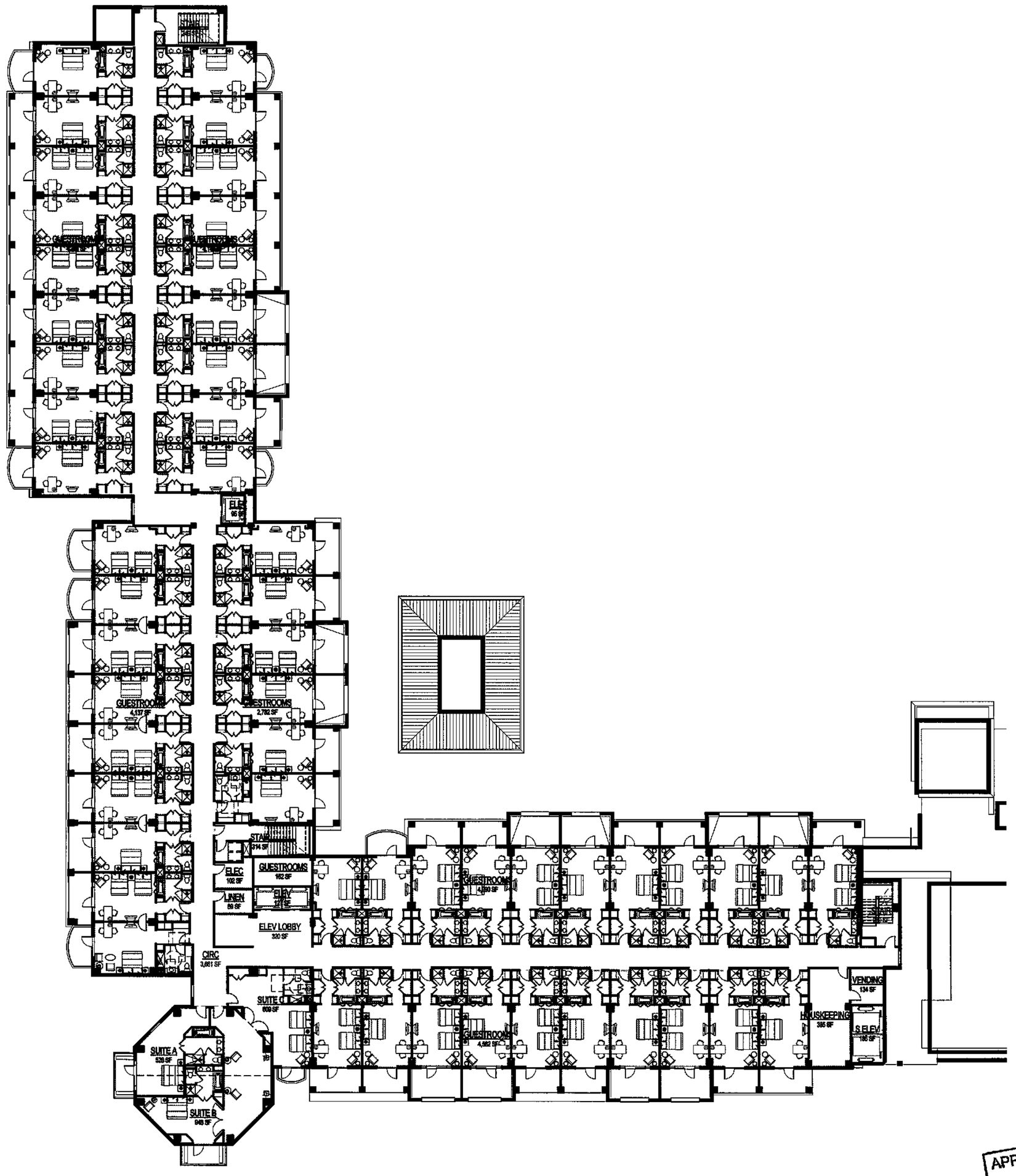

1 DD-A1.04 TYPICAL GUESTROOM LEVEL (2-4)
SCALE 1/16" = 1'-0"

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MAY 23 2014
City of Destin
Technical Review Team

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No	Drawing Issue Description	Date
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C Robert Neal

HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

OVERALL TYPICAL GUESTROOM LEVEL (2-4)

C Robert Neal	20120033.01
Principal-in-Charge	Project No
Pope Bullock	05/22/2014
Project Manager	Date
Brandon Danke	
Project Architect	
Edgar Gonzales	
Staff Architect	

DD-A1.04

SHEET 5 OF 6

Drawing No

NOT ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 20120033.01 PROJECT NAME: HENDERSON BEACH RESORT HOTEL
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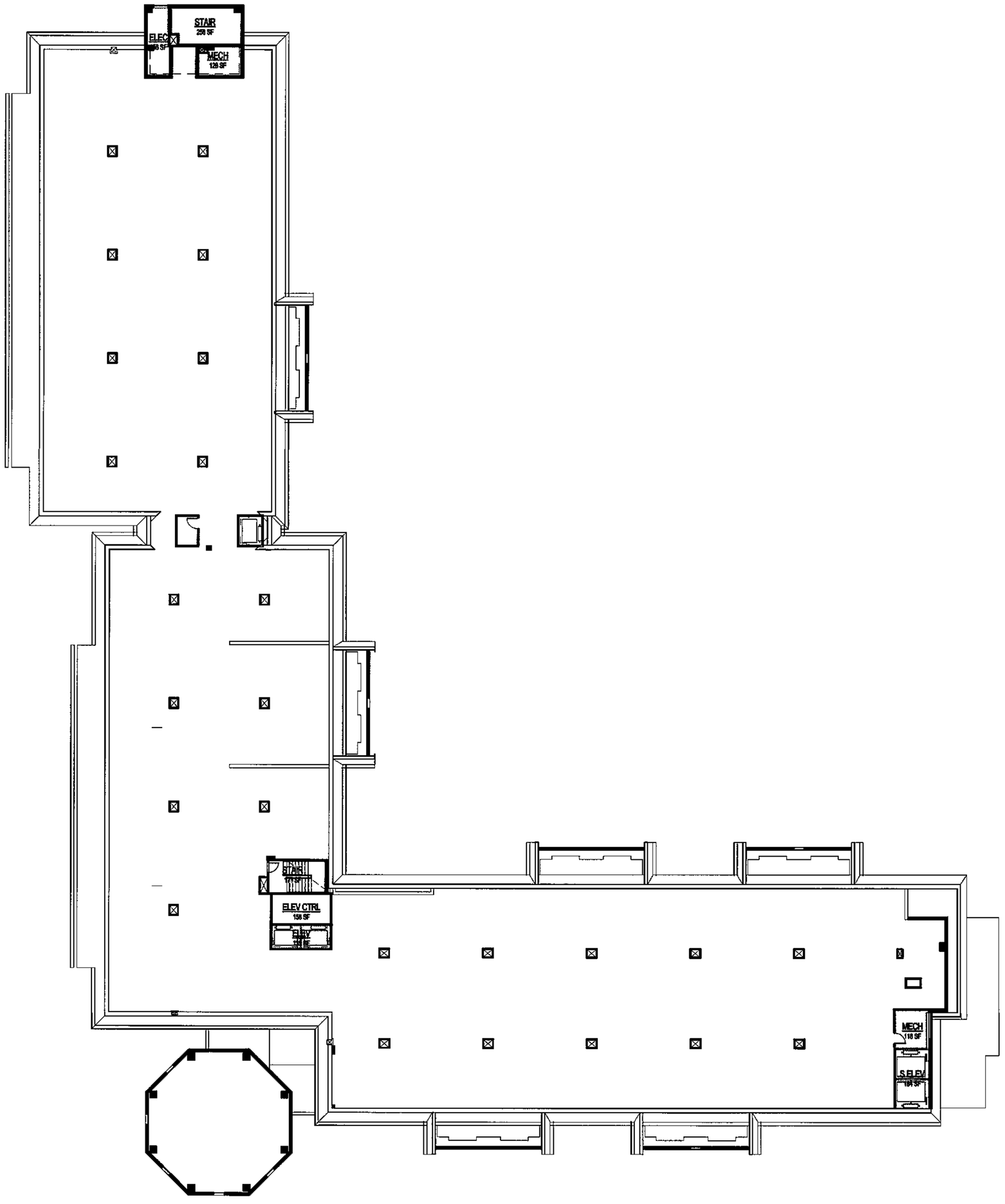

1 DD-A1.05 ATTIC
SCALE 1/16" = 1'-0"

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MAY 2 3 2014
City of Destin
Technical Review Team

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HENDERSON BEACH RESORT HOTEL

DESTIN, FLORIDA
♦
DUNAVANT ENTERPRISES, INC

OVERALL ATTIC FLOOR PLAN

C. Robert Neal Principal-in-Charge	201200033.01 Project No.
Pope Bullock Project Manager	05/22/2014 Date
Brandon Danke Project Architect	
Edgar Gonzales Staff Architect	

DD-A1.05

SHEET 6 OF 6

Drawing No.

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5/22/2014 12:57:37 PM

HENDERSON BEACH RESORT
OKALOOSA COUNTY, FLORIDA

OUTDOOR LIGHTING PERMIT DOCUMENTS
DESCRIPTION OF ILLUMINATING DEVICES
MARCH 25, 2013
[PEG #213-114]

14-08-SP
Planning

SUBMITTAL REVISION
MARCH 19, 2014

APPROVED
MAY 23 2014
City of Destin
Technical Review Team

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PREPARED BY:

PINNACLE ENGINEERING GROUP, P.A.

3303 THOMASVILLE ROAD, SUITE 102
TALLAHASSEE, FLORIDA 32308
PHONE: (850) 422-1763
FAX: (850) 422-1502

CONTACT: RICHARD NELSON, PE

FIXTURE 'A'

POST-TOP AREA LIGHT

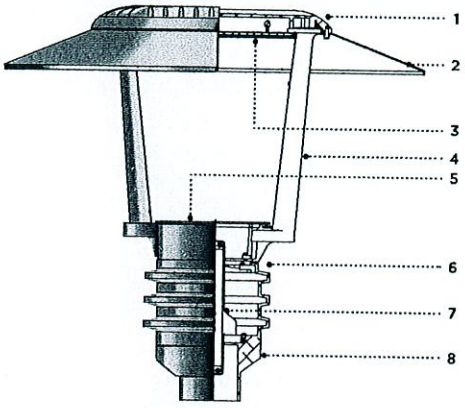
RESET

LUMINIS®

MA14/MA14SH SERIES
MAYA - LED

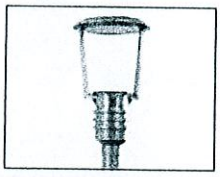
TYPE: A QUANTITY: _____ PROJECT: Henderson Beach Resort

CATALOG NUMBER:	MA14SH-L42W100-LD4	92W	120V		ELECTRICAL	ELECTRICAL	MOUNTING	ACCESSORIE
	FIXTURE	WATTAGE	VOLTAGE	FINISH	OPTION	OPTION	OPTION	OPTION

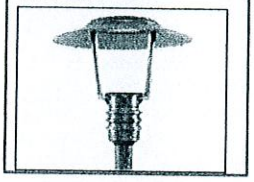


1- Cast aluminum LED board heat sink.
2- **MA14SH:** 30" Diameter hard aluminum optional shade.
3- Clear tempered glass lens.
4- Set of two cast aluminum supporting struts.
5- Black top sealed housing cover.
6- Cast aluminum top assembly base support with hinged mechanism.
7- 120/277V or 347/480V electronic driver power supply.
8- Lower cast aluminum houing with 4"-5" (102-127) O.D. pole adaptor.

MA14



MA14SH



MATERIALS
MayaLED is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
LED PC board is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in a separate cast aluminum chamber allowing a quick access for electrical maintenance without disturbing the optical light chamber.
LED PC board and optical lenses are protected from weather abrasion with a clear tempered glass to ensure optimal lighting performance.
LED PC board is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL
LED

POWER SUPPLY 120/277V multi volt, or 347-480V (50-60Hz) with a minimum operating temperature of -40°C/-40°F.

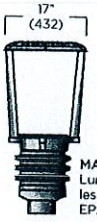
LED Type II-III-IV or VS light distribution with high performance optical lenses. Standard 4000°K LED LED system is available with three intensity levels of 46/61/96W.

LIFE
80,000hrs ($L_{70}B_{50}$) based on LM-80 report for lumen maintenance (150,000hrs for model L42W60).

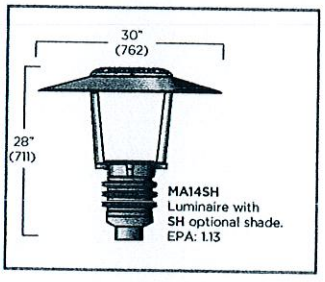
FINISH
Five-stage preparation process including preheating of cast aluminum parts for air extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

MOUNTING
Maximum weight: 28lbs (12.7kg)
MayaLED is designed for ease of access and installation. The luminaire slides over the mounting plate, minimizing installation effort. Designed for wall or pole mount to fit with a 4" (102) pole (5" (127) on request). Alternate poles or wall attachments are proposed to meet multiple installation conditions. (Refer to page 3)

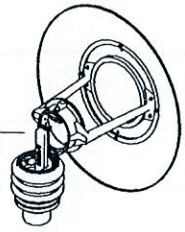
CERTIFICATION
Tested to UL1598 and CSA22.2 #250. ETL listed for wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards.
CE Certification on request.
Rated IP65.



MA14
Luminaire less shade.
EPA: 0.70



MA14SH
Luminaire with SH optional shade.
EPA: 1.13



MayaLED features a unique tool-less swing out shade assembly, allowing a quick access to luminaire maintenance, leaving a clean optical chamber to ensure a high lumen performance.

November 2015 Rev. 0

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260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.
Unless specified, lamps are not included with luminaires.

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.
Refer to page 4 for additional information.

MA14/MA14SH SERIES
MAYA - LED

LUMINAIRE SELECTION

MODEL#

☐ MA14

■ MA14SH

LED LIGHT SELECTION

	INPUT WATTS	DELIVERED LUMENS	MA14	MA14SH
Type II	46W	3378 Lms.	☐ MA14-L21W48-LD2	☐ MA14SH-L21W48-LD2
	61W	5138 Lms.	☐ MA14-L42W60-LD2	☐ MA14SH-L42W60-LD2
	96W	7410 Lms.	☐ MA14-L42W100-LD2	☐ MA14SH-L42W100-LD2
Type III	49W	3847 Lms.	☐ MA14-L21W48-LD3	☐ MA14SH-L21W48-LD3
	62W	5210 Lms.	☐ MA14-L42W60-LD3	☐ MA14SH-L42W60-LD3
	96W	7368 Lms.	☐ MA14-L42W100-LD3	☐ MA14SH-L42W100-LD3
Type IV	40W	3160 Lms.	☐ MA14-L21W48-LD4	☐ MA14SH-L21W48-LD4
	60W	4710 Lms.	☐ MA14-L42W60-LD4	☐ MA14SH-L42W60-LD4
	92W	6679 Lms.	☐ MA14-L42W100-LD4	■ MA14SH-L42W100-LD4
Type VS	47W	2970 Lms.	☐ MA14-L21W48-LD5S	☐ MA14SH-L21W48-LD5S
	58W	4445 Lms.	☐ MA14-L42W60-LD5S	☐ MA14SH-L42W60-LD5S
	95W	6332 Lms.	☐ MA14-L42W100-LD5S	☐ MA14SH-L42W100-LD5S

VOLTAGE [1]

- ■ 120V
- ☐ 277V
- ☐ 347V
- ☐ 480V

FINISH

STANDARD COLORS

- ☐ WHT Snow white
- ☐ BKT Jet black
- ☐ BZT Bronze
- ☐ MST Matte silver
- ☐ GRT Titanium gray
- ☐ DGT Gun metal
- ☐ CHT Champagne

OPTIONAL COLORS

- ☐ CS Custom color
- ☐ RAL RAL# color

(Refer to color chart)

NOTE: Above wattage values are based on 277V, tested at 25ºC ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages or changes in ambient temperature.
Lumens output will remain constant.

OPTIONS

ELECTRICAL

- ☐ **PH** Photocell
- ☐ **FS** Fuse
- ☐ **SP** Surge protector 10KV
- ☐ **DC1** 120/277V Dynadimmer control
- ☐ **DM** 120/277 or 347/480V 0-10V Dimming driver (25% dimming)
- ☐ **K2A** Amber LED for turtle sensitive areas Wavelengths: 584.5 nm to 597 nm
- ☐ **K3L** 3000ºK CCT LED
- ☐ **K5L** 5000ºK CCT LED

MOUNTING

- ☐ **ACA** Pole mounted attachment with 45º support
- ☐ **ACW** Wall mounted attachment with 45º support
- ☐ **EC3P** Pole mounted twin arm attachment
- ☐ **EC3PS** Pole mounted twin arm attachment - short version (luminiare without shade only)
- ☐ **EC3W** Wall mounted twin arm attachment
- ☐ **EC3WS** Wall mounted twin arm attachment - short version (luminaire without shade only)
- ☐ **TN3** 3" Tenon pole adaptor

ACCESSORIES

- ☐ **LP** High impact U.V. stabilized acrylic lens - 10% light loss
- ☐ **LPC** Clear polycarbonate vandal resistant lens
- ☐ **BLC** Back light control
- ☐ **SH** 30" Diameter aluminum shade (same color as luminaire)

OPTION DETAILS

DC1: Philips Dynadimmer™ is a step dimming control providing programmable schedules up to five different settings. The Dynadimmer™ uses the midnight point calculation to determine the absolute time between switching on/off time. Factory default settings:

T1 (Time 1 on @ 4PM) D1 (Light level @ 100%)
T2 (Time 2 @ 10PM) D2 (Light level step dimming @ 50%)
T3 (Time 3 @ 4AM) D3 (Light level resumes to 100% until 6 AM.)
Programmer tool unit for on site programming available on request. **# DCR1.** Other factory settings are available on request.

NOTES

1- Luminaires are factory prewired for 120V (if no voltage is specified.) For other voltages, please specify with catalog number, or consult factory.
2- Fuse and photo cell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)

LUMINIS.

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260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

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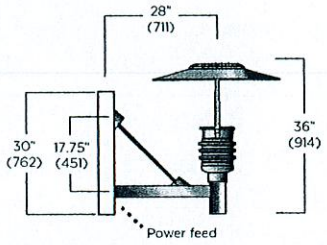
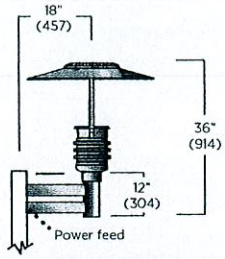
Unless specified, lamps are not included with luminaires.

MA14/MA14SH SERIES
MAYA - LED

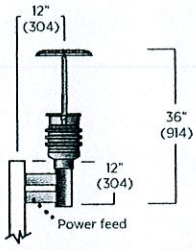
POLE MOUNT



ACA[1]
1" X 3" extruded aluminum extended arm pole mounting adaptor designed to fit with 4 to 5" dia. poles. 1/2" dia. X 45º standard natural stainless steel rod support. (EPA: 0.7)

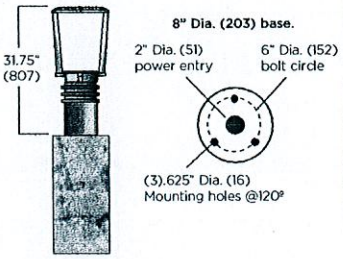


EC3P (Applicable with or without SH option)
Set of (2) 1" X 3" extruded aluminum side pole straight mounting. Designed for luminaires with or less shades. Pole mounting adaptor fits with 4 to 5" dia. poles. (EPA: 0.97)

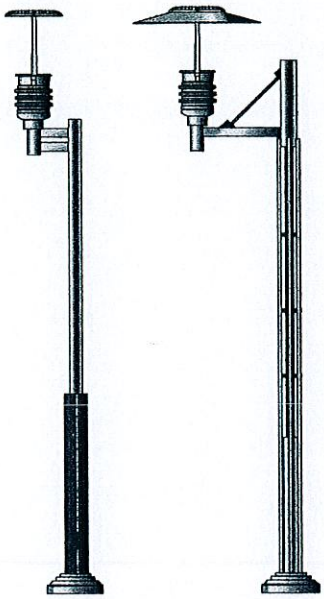


EC3PS
Set of (2) 1" X 3" extruded aluminum side pole straight mounting. Designed for MA12 luminaires only. Pole mounting adaptor fits with 4 to 5" dia. poles. (EPA: 0.72)

NOTE 1: PCA Pole with ACA attachment requires a 30" (762) tenon extension over pole nominal height. EC3P and EC3PS require an 18" tenon extension. Factory installed.

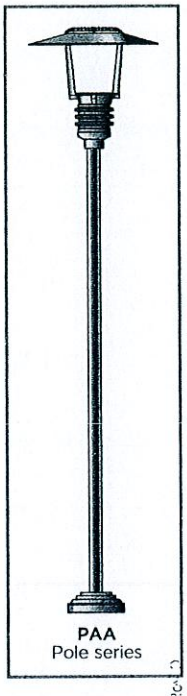


PR7
8" Dia.(203) X 8.75" H (222).
Extruded aluminum stand designed for short walls or pier mount.



PSB
Pole series

PST
Pole series



PAA
Pole series

MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-------	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-------	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-------	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-------	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-------	PTA20	PSB20	20 Ft. (6,0 M)
-------	-------	-------	PTA25	-------	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4"= 100mm Ø5"= 127mm

November 2013 Rev. 13

LUMINIS®

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.
Unless specified, lamps are not included with luminaires.

FIXTURE 'B'

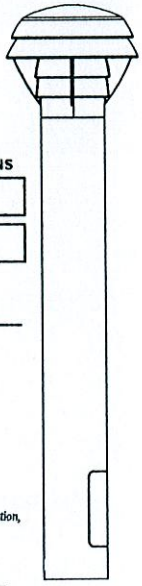
BOLLARD LIGHT

Job:	Henderson Beach Resort
Type:	B
Notes:	Bollard Light

Bollard LED

Round Full Cutoff Bollard
BR840 Series, Including Motion Response

The Philips Gardco LED Bollard family features the round full cutoff bollard, the BR840 series. This sleek series features LEDs concealed below cast louvers to provide down lighting for landscape and pathway applications. The BR840 series features 4" diameter extruded aluminum shafts. Available mountings include the standard shaft, with a welded cast base mounted firmly to anchor bolts. The BR840 series also is available with a galvanized steel base tenon reinforced shaft (BR842) for applications requiring additional support, such as schools. BR840 series bollards provide full cutoff performance.



PREFIX	HEIGHT	LED CONTROL	LED SELECTION	LIGHTED COVERAGE / LED WATTAGE	VOLTAGE	FINISH	OPTIONS
BR840	36	CWL					

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX / HEIGHT

BR840	Standard Shaft	42" 36" 30" NW
BR841	Head Only	7.1"
BR842	School Bollard Reinforced Shaft with Galvanized Steel Tenon	42" 36" 30"

LED CONTROL

CWL Constant Wattage Full Light Output
Full wattage UNIV light ly.

DIM 0 - 10V Dimming
Dimming controls by others. The dimming driver utilized permits dimming control via a potentiometer (by others) or via 0 - 10V control (by others.) Consult installation instructions for more information.

MR Motion Response
Featuring two (2) integral Passive Infrared (PIR) sensors. In the absence of motion, luminaires operate at 20% of normal power and light output (80% dimmed.) See page 3 for more information on Motion Response luminaires.

LED SELECTION

CW	*5,700°K, 75CRI*
NW	*4,000°K, 75CRI*
WW	*3,000°K, 75CRI*

LIGHTED COVERAGE / LED WATTAGE

360° lighted louvers - 14 LEDs

360 -10	10 watts at 225mA
360 -18	18 watts at 350mA
360 -26	26 watts at 500mA

Note: A variation of LED wattage (+/- 8%) may occur due to LED manufacturer's forward volt specification and ambient temperature.

180° lighted louvers - 7 LEDs[1,2] *(Provides reduced backside light.)*

180 -10	10 watts at 450mA
180 -18	18 watts at 700mA

1. 180° achieved by populating half of LEDs.
2. 180° distributions include an internal house side shield to limit the amount of backlight.

VOLTAGE

UNIV *120V through 277V, 50hz to 60hz input.*

FINISH

BRP	Bronze Paint	**OC**	Optional Color Paint *Specify RAL designation as ex: OC-RAL7024.*
BLP	Black Paint		
WP	White Paint	**SC**	Special Color Paint *Specify. Must supply color chip.*
NP	Natural Aluminum Paint		

OPTIONS

PCB[3]	Button Photocontrol
SPR	Surge Protection for 120V through 277V Input meeting ANSI C62.41.2

3. Not available in BR841.

1611 Clovis Barker Road, San Marcos, TX 78666
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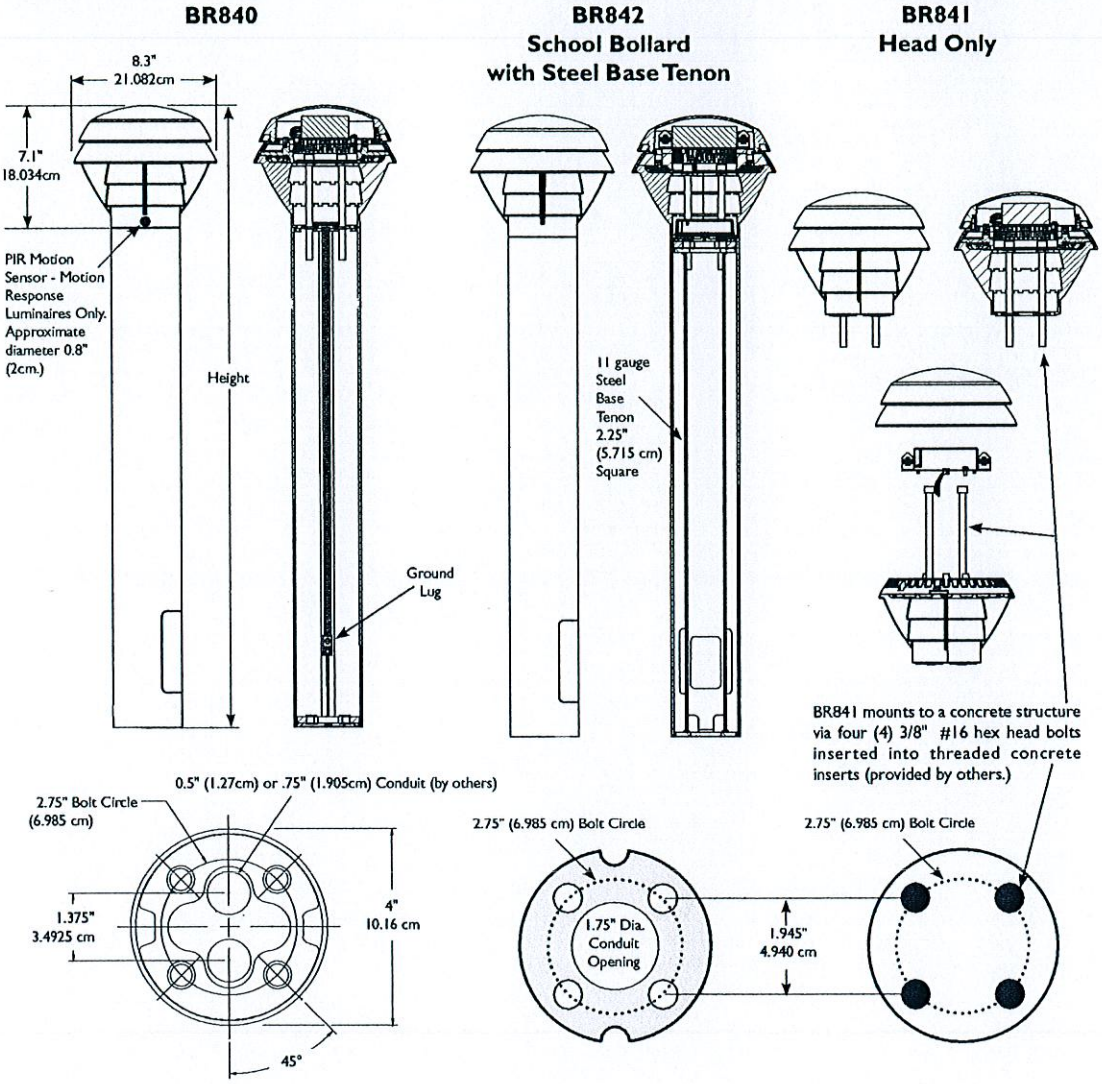
G200-020/0113

PHILIPS GARDCO

Bollard LED

Round Full Cutoff Bollard
BR840 Series, Including Motion Response

DIMENSIONS



NOTE: Factory supplied template must be used when setting anchor bolts. Philips Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

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G200-020/0113

PHILIPS GARDCO

Bollard LED

Round Full Cutoff Bollard
BR840 Series, Including Motion Response

SPECIFICATIONS

UPPER HOUSING: Die cast aluminum upper housing featuring shielding louvers to provide down light.

LOWER HOUSING:

BR840 : The lower housing assembly consists of a .140" wall by 4" diameter high strength 6063-T6 extruded aluminum section incorporating a flush, weather-tight gasketed hand hole cover.

BR41 : Louver head assembly is suitable for attachment to architectural elements (by others).

BR842 : The lower housing assembly consists of a .140" wall by 4" diameter high strength 6063-T6 extruded aluminum section, incorporating a flush, weather-tight gasketed hand hole cover, for placement over the galvanized steel tenon support structure. Tenon support structure is made from a .12" thick wall, 11 gauge steel, 2.25" square tube, welded to top and bottom round steel support plates. The steel tenon support structure includes an opening aligned with the aluminum shaft hand hole to permit wiring. The entire steel tenon support structure is hot dipped galvanized after fabrication.

LED PERFORMANCE:

PREDICTED LUMEN DEPRECIATION DATA[4]		
Ambient Temperature °C	Driver mA	L_{70} Hours[5]
25 °C	225	230,000
	350	220,000
	450 / 500	165,000
	700	150,000
40 °C	225	212,000
	350	188,000
	450 / 500	150,000
	700	137,000

4. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
5. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.

OPTICAL SYSTEM: Philips Gardco LED Bollards feature advanced Philips Gardco LED technology, assuring maxmimized light output. LED arrays are replaceable.

ANCHORAGE:

BR840: Base assembly consists of an internal welded cast ring section that provides for mounting to the foundation with four (4) 3/8" X 8" X 1½" anchor bolts on a 2¾" bolt circle.

BR841: The luminaire head mounts to a concrete structure utilizing four (4) 3/8" #16 hex head bolts inserted into threaded concrete inserts (provided by others) on a 2¾" bolt circle.

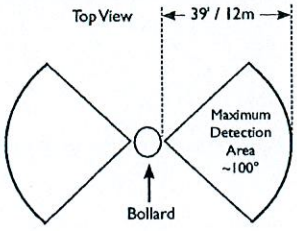
BR842: A high strength steel mounting tenon, hot-dip galvanized after fabrication, is secured to the concrete footing with (4) 3/8" x 8" x 1 1/2" anchor bolts on a 2¾" bolt circle.

IP RATING: IP66 is the rating for the optical compartment.

ELECTRICAL: The LED power supply is located within the bollard head. Bollards accept from 120 Volts through 277 Volts, 50hz to 60 hz, input. supply. The LED driver is located in the upper dome. LED drivers are replaceable. LEDs provided as specified. Power factor is not less than 90%. Luminaires consume 0.0 watts in the off state.

MOTION RESPONSE LUMINAIRES: Each Motion Response (MR) luminaire includes two (2) Panasonic EKMB1203112 Passive Infrared (PIR) sensors to detect motion. When motion is not detected for a 5 minute period, luminaires automatically dim to 20% power and light, gradually over a 2 minute period. Once Motion is detected, luminaires immediately ramp to full power and light output until motion is not detected for a 5 minute period.

PIR sensors are able to detect motion in the approximate patterns shown below:



Note: Motion sensors rely on specific zonal crossings to detect motion. It is possible for a person to directly approach the bollard motion sensor without crossing between zones until 15 feet from the motion sensor. The actual motion detection distance may vary based on specific application characteristics.

LUMINAIRE FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured textured powdercoat finish

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

WARRANTY: Philips Gardco luminaires feature a 5 year limited warranty. Philips Gardco LED luminaires with LED arrays or modules feature a 5 year limited warranty covering the LED arrays or modules. LED drivers carry a 5 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

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G200-020/0113

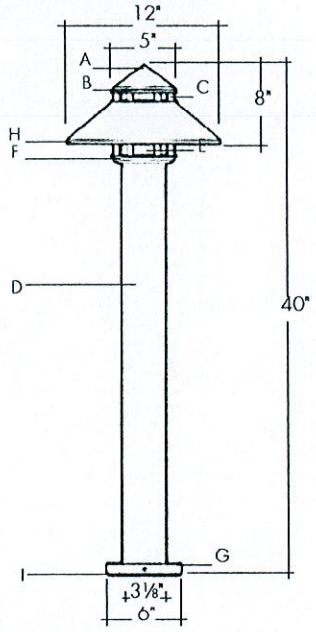
PHILIPS GARDCO

FIXTURE 'C'

LANDSCAPE LIGHT
(EVENT LAWN & POOL AREA ONLY)

TEKA
ILLUMINATION

T-57
Beacon Shaded Bollard



Description

Exterior bollard luminaire.

Materials and Construction

A. Cast bronze cap
B. Stainless steel or copper on stainless steel Ring baffles
C. Machined, solid brass spacers
D. Heavy wall, .125 thk. solid copper post, 3.5" O.D.
E. Etched glass cylinder
F. Cast bronze housing
G. Cast bronze base
H. Solid copper, heavy wall shade
I. Stainless steel and cast bronze anchor plate
J. Provided with all stainless steel fasteners
K. 120V electronic PLT ballast with -15°F starting temperature is standard on PLC models

Mounting

TEKA mounting kit #34 provided. Allows for (2) ¾" maximum trade conduits.

Product Number	Lamp	Rings	Finish Option
BSB-2546 / Natural	60W A-19	St. Stl.	Brown Patina
BSB-2516/ Natural	60W A-19	Copper	Brown Patina
BSB-2542 / Natural	26W PLT	St. Stl.	Brown Patina
BSB-2512/ Natural	26W PLT	Copper	Brown Patina

Options available at additional cost

1. Add suffix BP for brown patina
2. Add suffix # 277 to PLT models for integral 277V electronic ballast
3. For higher or lower heights available, consult factory

Note

ETL Listed to ANSI/UL Standard 1598 and Certified to CAN/CSA Standard C22.2 No. 250

TEKA ILLUMINATION, INC
40429 Brickyard Drive Madera, California 93636 (559) 438-5800 Fax (559) 438-5900 www.tekaillumination.com

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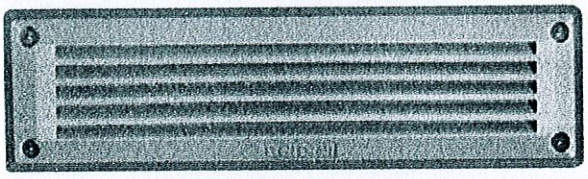
FIXTURE 'D'

WALL / STEP LIGHT

MARGIN

Margin is a wall recessed luminaire suitable for a range of applications such as pathways and entries.



GENERAL SPECIFICATION

Housing: Low copper, die-cast aluminum highly resistant to oxidation.

Diffuser: 4mm/0.2" tempered glass.

Gasket: Silicone.

Finish: Powder coated.

Reflectors: High purity aluminum.

External screws: A4 stainless steel treated with highly antioxidant water-repellent lubricating solution to ensure easy opening.

Cable entry: Double silicon gland for DIA 10-14mm/0.4-0.5" cables.

Drivers: HPF, electronic 120-277V.

Rough-in housing: Thermoplastic.

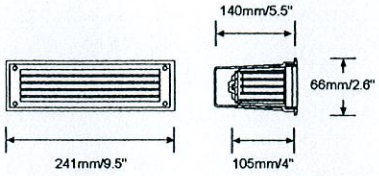
Mechanical: For wall installation in poured concrete/brick.

Approvals: ETL. Wet location, IP66.

MARGIN

A SPECIFY LAMP/LUMINAIRE TYPE

Code:	Lamp:	Color CCT:	Lumens:	Photometry:
820 7610	6W **LED**	3000K	450lm	File# **8207610**
820 7611	6W **LED**	4000K	600lm	File# **8207611**



B SPECIFY FINISH

BL Black
GR Gray RAL 9006
AG Anthracite gray
RB Rust brown

C SPECIFY OPTIONS

TF Turtle-friendly amber LEDs (150lm)

D SPECIFY ROUGH-IN HOUSING (REQUIRED)

RIH 6503 Rough-in housing

Example Specification Code: 820 7610 • BL • RIH 6503

Note: *Due to constant changes in LEDs, please check our website for current product specifications.*

EXTERIOR
WALL RECESSED

OGHIDINI

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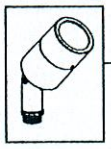
FIXTURE 'E'

ACCENT LIGHT



BKSSL SOLID STATE LIGHTING

the power of dimming with adjust-e-lume® TECHNOLOGY

NITE STAR™

PROJECT:	Henderson Beach Resort
TYPE:	E
CATALOG NUMBER:	NS-LED-
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

	NS	LED	e23	MFL	A9			11	360L

Example - NS - LED - e23 - SP - A5 - BZW - 12 - 11 - 360SL

Material
- **Blank** - Aluminum
- **B** - Brass
- **S** - Stainless Steel

Series
- **NS** - Nite Star™

Source
- **LED** - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
  **Requires magnetic Low Voltage dimmer*

LED Type
- **e36** - 8WLED/2.7K
- **e22** - 8WLED/3K
- **e23** - 8WLED/4K
- **e27** - 8WLED/Amber

Optics*
- **NSP** - Narrow Spot (Red Indicator)
- **SP** - Spot (Green Indicator)
- **MFL** - Medium Flood (Yellow Indicator)
- **WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** *(Choose factory setting)*
- **A9** (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**

***Please see Adjust-e-Lume® photometry to determine desired intensity.*

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU (Interior use only)

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper		*Also available in RAL Finishes See submittal SUB-1439-00*

Lens Type
- **12** - Soft Focus Lens
- **13** - Rectilinear Lens

Shielding Option
- **11** - Honeycomb Baffle
- **360SL** - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	Magnetic Low Voltage Dimmer	-10°F-130°F

LM79 DATA / L70 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)	Minimum Rated Life (hrs.) 70% of Initial lumens (L_{70})
e36	2700K	8.4	90	50,000
e22	3100K	8.4	90	50,000
e23	4100K	8.4	75	50,000
e27	Amber (590nm)	7.9	~	50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING
40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE	DRAWING NUMBER
1-8-14	SUB000929

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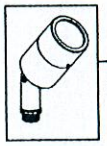


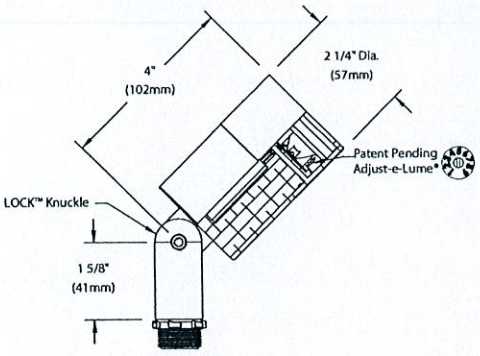
BKSSL SOLID STATE LIGHTING

the power of dimming with adjust-e-lume® TECHNOLOGY

NITE STAR™

PROJECT:	Henderson Beach Resort
TYPE:	E

SIDE VIEW

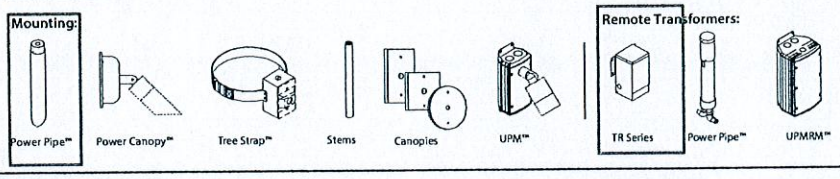


360 SL™

Horizontal Rotation
(Optional 360SL™ Knuckle)

Accessories *(Configure separately)*

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.



SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap
Fully machined. Accommodates (1) lens or louver media. Flush lens.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset *output intensity.*

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Remote Transformer
For use with 12VAC BKSSL remote transformer.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.

ETL Intertek · MADE IN USA · lighting facts · RoHS

**Teflon is a registered trademark of DuPont Corporation.*
**Energy Star is a registered trademark of the United States Environmental Protection Agency.*

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE 1-8-14	DRAWING NUMBER SUB000929

FIXTURE 'F'

UP-LIGHT

DENALI™ FLOODLIGHT

PROJECT:	Henderson Beach Resort
TYPE:	F
CATALOG NUMBER:	
SOURCE:	
NOTES:	Up Lights

CATALOG NUMBER LOGIC

DE	LED	x26	FL		9	11	B

Example: DE - LED - x22 - FL - SAP - 12 - 11 - C

Series
- DE - Denali™ Floodlight

Source
- LED - 'X' Module with Cold Phosphor Technology

LED Type
- x21 - 15WLED/2700K
- x22 - 15WLED/3000K
- x23 - 15WLED/4000K
- x24 - 25WLED/2700K
- x25 - 25WLED/3000K
- x26 - 25WLED/4000K

Optics
- SP - Spot (20°)
- FL - Flood (40°)
- WFL - Wide Flood (60°)

Finish

Standard Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper		*Also available in RAL Finishes See submittal SUB-1439-00*

Lens Type
- 9 - Clear (Standard)
- 10 - Spread Lens*
- 12 - Soft Focus Lens*
- 13 - Rectilinear Lens*

Shielding
- 11 - Honeycomb Baffle*

**Accommodates up to 2 Lens/Shielding media*

Cap Style
- A - 45°
- B - 90°
- C - Flush
- D - 45° without Weep Hole *(Interior Use Only)*
- E - 90° without Weep Hole *(Interior Use Only)*

Configure Separately

Driver Housing Required
- HP2 - HP2 Housing
- HP2RM - HP2 Remote Housing
- PM2 - Universal Power Module 2
- PM2D - Universal Power Module 2 Dual
- PM2RM - Universal Power Module 2 Remote
- PM2DRM - Universal Power Module 2 Dual Remote
- PC - Power Canopy
- PPII - Power Pipe II
- TMB - Pole Mount or Tenon Mount
- RM - Remote Wall Mount
- DRM - Dual Remote Wall Mount

LM79 DATA

BK No.	CCT (Typ.)	CRI (Ra. Typ.)	Color Consistency	Input Watts (Typ.)
x21	2700K	>80	±40K	15
x22	3000K	>80	±50K	15
x23	4000K	>80	±70K	15
x24	2700K	>80	±40K	25
x25	3000K	>80	±50K	25
x26	4000K	>80	±70K	25

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000
50,000
50,000

OPTICAL DATA

Beam Type	Angle
Spot	20°
Flood	40°
Wide Flood	60°

B-K LIGHTING
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SUBMITTAL DATE	DRAWING NUMBER
12-14-11	SUB001113

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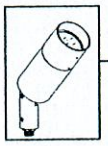
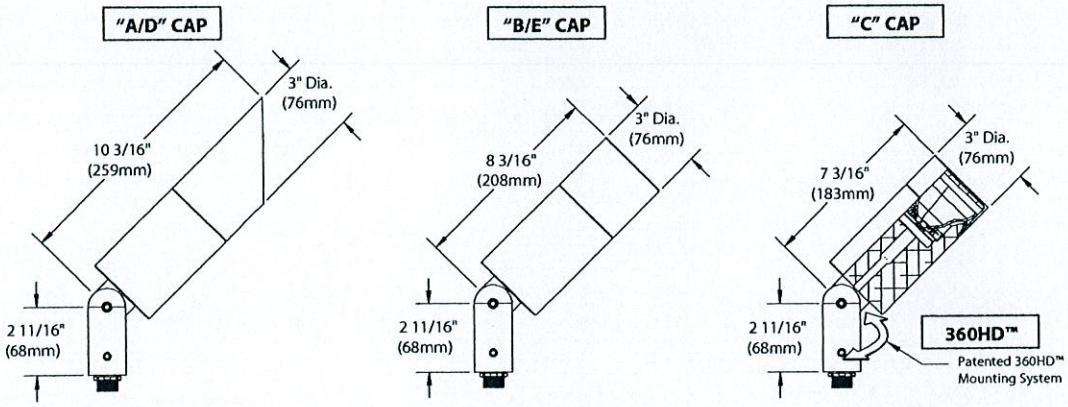


BKSSL powered by XICATO

DENALI™ FLOODLIGHT

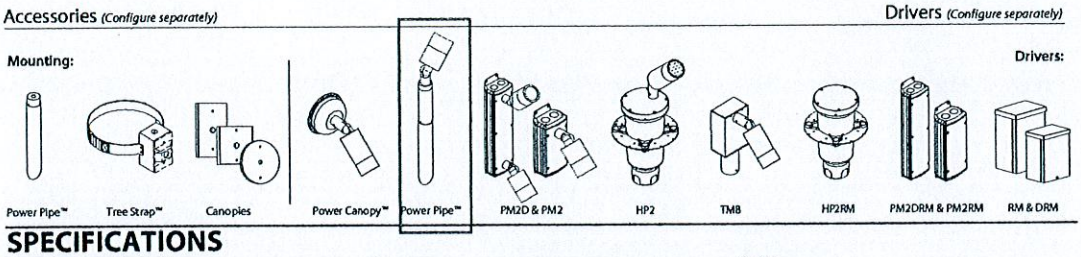
PROJECT:	Henderson Beach Resort
TYPE:	F



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Accessories *(Configure separately)*

Mounting:



Drivers *(Configure separately)*

Drivers:

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
Patented 360HD™ Mounting System features a mechanical taper-lock, which allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting. Biaxial source control additionally provides 360° horizontal rotation in addition to vertical adjustment. 'Aim-And-Lock' Technology allows precision adjustment without the redundant tightening and loosening of knuckle screw.

Cap
Fully machined. Accommodates (2) lens or louver media. Choose from 45° cutoff ('A' or 'D'), 1° deep bezel with 90° cutoff ('B' or 'E') or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

BKSSL™
Integrated solid state system with 'x' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance.

LM-80 certified. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

Color Management
Corrected cold phosphor technology delivers near-perfect natural white light. Long term phosphor maintenance over product life. Exact color point conformity exceeds ANSI C78.377 standard. Provides uniform beam with no color variation over angle. Module exceeds 80 CRI (RA>80, R9>16).

Remote Driver
For use with remote LED driver. See remote driver submittal to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution.

Wiring
Teflon* coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. 360HD™ hardware is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard® (Pat. Pend.), a RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. RoHs compliant.

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standards 1598, 8750 and Certified to CAN/CSA Standard C22.2 No. 250. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4' of the ground. IP66 Rated. Made in USA.

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360HD Patent is covered in whole or in part by U.S. Patent No. 6,161,948

BKSSL SOLID STATE LIGHTING

Constant Current Driver

THE POWER OF X

POWER PIPE II™ SYSTEM

PROJECT:	Henderson Beach Resort
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

PPII	S12	D25	B	120	SF

Example PPII - S12 - D15INC - B - 120 - SF

Series
- **PPII** - Power Pipe II™ System *(Specify Fixture Separately)*

Type
- **S12** - 12" Stake*
- **J12** - 12" Junction Box*
- **S18** - 18" Stake*
- **J18** - 18" Junction Box*

**Includes 12" or 18" Power Pipe with Driver Housing*

Driver Type
- **D15** - 15W Driver *(non-dimming)*
- **D15INC** - 15W Dimming Driver *(for use with Incandescent Dimmer)* *120V only*
- **D25** - 25W Driver *(non-dimming)*
- **D25INC** - 25W Dimming Driver *(for use with Incandescent Dimmer)* *120V only*

Cap Style
- **B** - Single Hole Cap

Input Voltage
- **120** - 120 VAC Input *(for use with D15INC and D25INC only)*
- **MT** - 120-277 VAC Input

Options
- **SF** - Stability Flange

DRIVER ELECTRICAL DATA

TYPE	AC INPUT RANGE	Frequency Hz	DIMMING	POWER FACTOR	THD	OPER. AMBIENT TEMPERATURE	DIMMER TYPE	DIMMER RANGE
D15	120/208/240/277	50/60	NO	>0.92	≤20%	-30° C ~ 50°C	—	—
D15INC	120	50/60	YES	>0.96	≤20%	-30° C ~ 60°C	Incandescent	10-100%
D25	120/208/240/277	50/60	NO	>0.92	≤20%	-30° C ~ 50°C	—	—
D25INC	120	50/60	YES	>0.96	≤20%	-30° C ~ 60°C	Incandescent	10-100%

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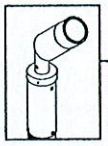


BKSSL SOLID STATE LIGHTING

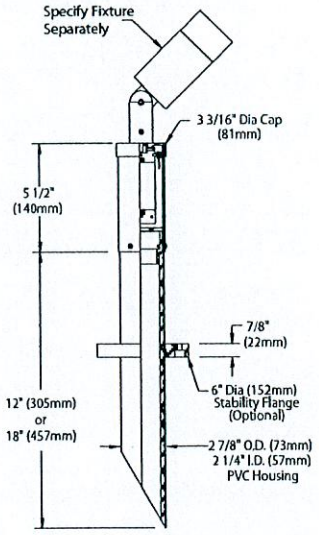
Constant Current Driver

THE POWER OF

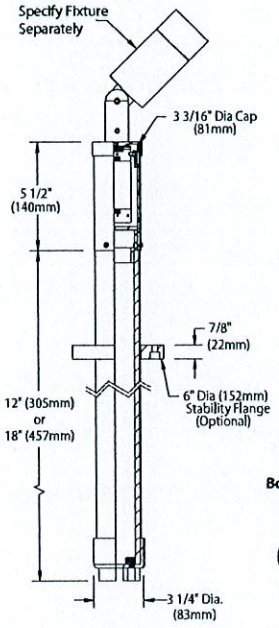
POWER PIPE II™ SYSTEM

PROJECT:	Henderson Beach Resort
TYPE:	

STAKE (S)

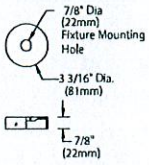


JUNCTION (J)

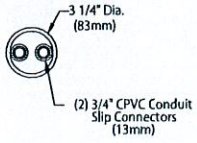


CAP STYLE

'B' Cap (Single Hole)



Bottom View of "J"



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Installation
Provides a clean, architectural transition from wiring system to fixture. 2" Schedule 80 PVC pipe. For direct burial into soil or concrete. Available in 12" length. Available in two installation types:

Stake (Type S)
60° angled bottom designed for use with conduit or direct burial low voltage cable.

Junction Box (Type J)
Includes [2] 3/4" PVC slip connectors for branch circuit wiring.

Stability Flange
Optional 6" diameter, molded stability flange simplifies installation and projects into substrate to simplify installation and reinforce housing stability.

Cap Style
Machined from copper-free aluminum. Single Hole ('B') cap styles.

Driver Housing
Fully machined from copper-free aluminum. Stainless steel hardware. High temperature, silicone 'O' Ring provides watertight seal.

Driver
For use with [1] 700mA, Class A, constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.94 Power Factor, <15.0A in-rush current, 0.25A input current, ≤20%THD (nominal at 120VAC full load). Output over-voltage, over-current, and short circuit protection with auto recovery. EMC: FCC47CFR Part 15 Class B compliant.

Dimming driver for use with standard incandescent dimmers. 10-100% range.

Wiring
Teflon* coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper resistant, stainless steel hardware.

Finish
StarGuard*, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Finish to match fixture (specified separately.)

Warranty
5 year limited warranty.

Listings
ETL listed. Made in USA.

RoHS

*Teflon is a registered trademark of DuPont Corporation

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FIXTURE 'G'

CITY OF DESTIN STREET LIGHT
'SHEPHERD'S HOOK' STYLE

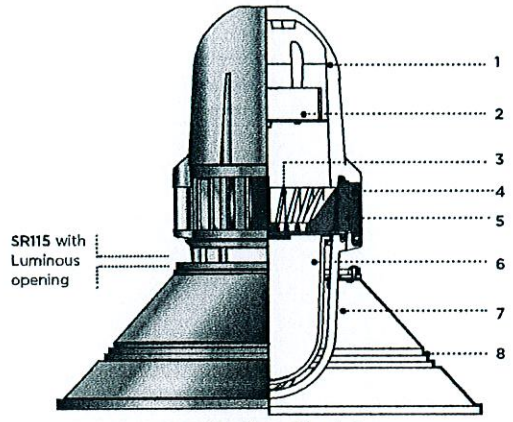
RESET

LUMINIS®

SR115/SR215 SERIES
SCIROCCO - LED

TYPE: G QUANTITY: PROJECT: Henderson Beach Resort Street Light

CATALOG NUMBER:	SR215	L1W56	120V	BKT	ELECTRICAL	ELECTRICAL	APS	ACCESSORIE
	FIXTURE	WATTAGE	VOLTAGE	FINISH	OPTION	OPTION	OPTION	OPTION

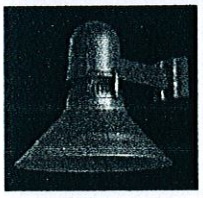


SR215: Full cutoff luminaire

1- Cast aluminum driver housing.
2- Universal driver tray with twist lock design.
3- Sealed and isolated LED compartment.
4- Housing/shade assembly hinge mechanism.
5- Cast aluminum LED heat dissipator.
6- Borosilicate prismatic heavy glass diffuser.
7- Cast aluminum ribbed cage.
8- Structurally reinforced perimeter aluminum shade. Inner surface is standard white enamel for increased light performance.

SR115T

SR215T



MATERIALS
Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%..
The top cast aluminum housing is designed with a hinged mechanism.
The hard aluminum shade assembly is designed with a set of perimeter reinforcement ribs. The inner surface is standard white enamel for higher light efficiency.
The lower optical assembly includes sealed borosilicate prismatic glass diffuser, which is secured with a silicone memory retention gasket.

ELECTRICAL
DRIVER 120/277V multi volt (50-60HZ) with a minimum starting temperature of -30ºC/-22ºF. Optional 347V on request.
Output over voltage. Output over current and output short circuit protection with auto-recovery.
Over temperature protection (110ºC).

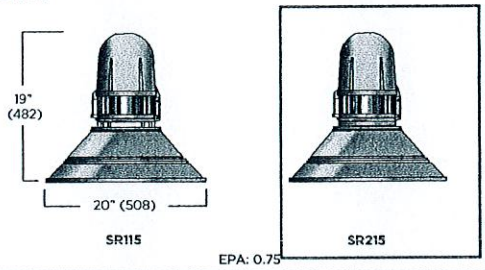
LED Standard 4000ºK LED platform included. Optional 3000ºK and 3500ºK available. Removable modular LED platform.

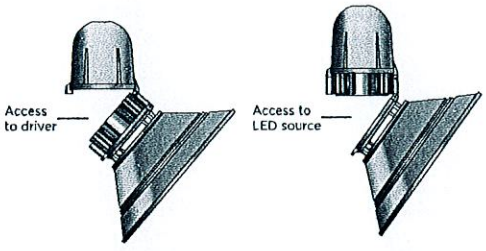
LIFE
51,000hrs $L_{77}B_{50}$ (based on IESNA TM-21 Test Method and LM80 data).
68,000hrs $L_{70}B_{50}$ (calculated projection from LM80 data).

FINISH
Five-stage preparation process including preheating of cast aluminum parts for air pocket extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

MOUNTING
Maximum weight: 14.66lbs (6.7kg)
Scirocco is designed as a modular luminaire concept offering a selection of mounting arrangements for various architectural requirements.
Pole, wall or suspended attachments are proposed with high quality components to meet multiple installation conditions.

CERTIFICATION
Tested to UL1598 and CSA 22.2 #250. ETL listed wet location.
Photometry tested per IES LM-79-08 / IES LM80 test report at 25º C.
Rated IP65.





Scirocco is designed for ease of access with a double hinge sealed mechanism isolating the light chamber from the driver compartment minimizing maintenance handling and possibly damaging components.

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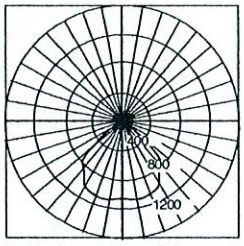
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement or discontinued without prior notice.
Unless specified, lamps are not included with luminaires.

SR115/SR215 SERIES
SCIROCCO - LED

TYPICAL PHOTOMETRY SUMMARY



Outdoor report Polar graph
Maximum Candela = 1101

Descriptive Information
Total Lms: 2656 Lumens
Total Input Watts: 53 W
Source: LED
Total efficiency: 50%
BUG Rating: B1-U0-G0
CCT: 4000°K

SR115-L1W56
SR215-L1W56

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

LUMINAIRE SELECTION

MODEL#

☐ SR115

■ SR215

LED LIGHT SELECTION

SUFFIX	INPUT WATTS	DELIVERED LUMENS	CRI	CCT °K
☐ L1W30	26W	1350	80	4000 °K
■ L1W56	53W	2656		

VOLTAGE [1]

■ 120V
☐ 277V

Optional
☐ 347V
☐ 480V

FINISH

STANDARD COLORS

☐ WHT Snow white
■ BKT Jet black
☐ BZT Bronze
☐ MST Matte silver
☐ GRT Titanium gray
☐ DGT Gun metal
☐ CHT Champagne

OPTIONAL COLORS

☐ CS Custom color
☐ RAL RAL# color

(Refer to color chart)

OPTIONS

ELECTRICAL

☐ **FS** Fuse [2]
☐ **PH** Photocell [2]
☐ **347L** 347V input power driver

Alternate CCT °K LED
☐ **K3** 3000°K CCT LED
☐ **K35** 3500°K CCT LED

Available in Amber LED's for Turtle Friendly area's

MOUNTING

☐ **ACA** Pole mounted attachment with 45° support
☐ **ACW** Wall mounted attachment with 45° support
☐ **APA** Pole mounted shepherd arm attachment
☐ **APC** Pole mounted straight arm attachment
■ **APS** Post top shepherd arm attachment
☐ **CAT** Catenary suspension attachment
☐ **W** Wall mounted shepherd arm attachment
☐ **T** Wall mount straight arm attachment
☐ **STM** 36" Field-cuttable stem with 45° swivel (other lengths available, please specify)

ACCESSORIES

☐ **SPG** Silver braided power cord with adjustable suspension cable. 36" in length (other lengths on request)
☐ **SC** Safety cable extends 18" over mounting plate (with stem mounting only)
☐ **SSC** Stabilizer cables
☐ **HS** House shield installed within the glass diffuser

NOTES
1- Luminaires are factory prewired for 120V (if no voltage is specified.) For other voltages, please specify with catalog number, or consult factory.
2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)

LUMINIS®

Jan. 2014 rev. 0

LUMINIS | Toll free: 866.586.4647 Fax: 514.683.8872
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

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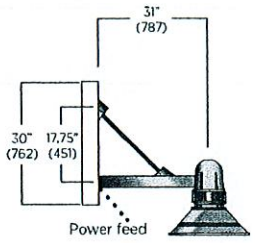
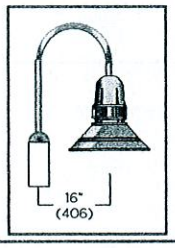
Unless specified, lamps are not included with luminaires.

SR115/SR215 SERIES
SCIROCCO - LED

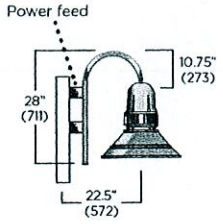
POLE MOUNT



ACA[1]
1" X 3" extruded aluminum extended arm pole mounting adaptor designed to fit with 4 to 5" dia. poles. 1/2" dia. X 45º standard natural stainless steel rod support. (EPA: 0.7)

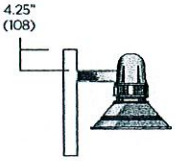


APS
1 5/8" Dia. shepherd aluminum post top mount, with a cast aluminum tenon to fit with a 3 3/4" I.D. pole. (EPA: 0.15)



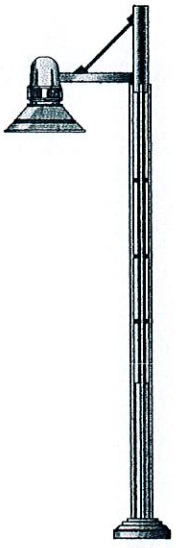
APA[1]
1 5/8" Dia. shepherd aluminum side pole mount. (EPA: 0.15)

NOTE 1: PCA Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory Installed.

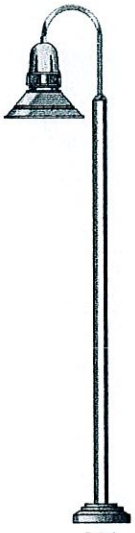


APC
1" X 3" extruded aluminum side pole mounting straight adaptor (EPA: 0.12)

PSB
Pole series



PST
Pole series



PAA
Pole series

MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-------	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-------	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-------	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-------	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-------	PTA20	PSB20	20 Ft. (6,0 M)
-------	-------	-------	PTA25	-------	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4"= 100mm Ø5"= 127mm

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Jan 2014 Rev. 3

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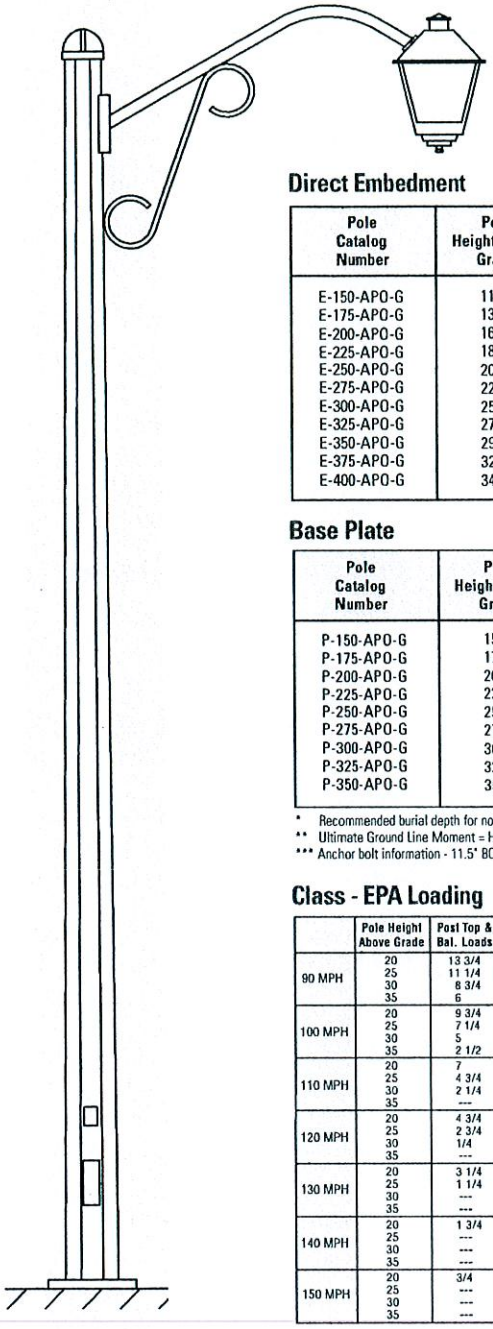
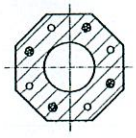
Luminaires may be altered for design improvement or discontinued without prior notice.
Unless specified, lamps are not included with luminaires.

Octagonal Class A - Light Duty Pole



Octagonal Class A - Light Duty Pole



Physical Details:

- Octagonal symmetrically tapered shaft.
- 5.375" flat to flat pole tip.
- 0.125" per linear ft. taper increase.
- 600 lb. transverse bending strength (2 ft. from tip).
- Mold finish is standard but optional etched or polished finish and Decor colors are available.
- For various luminaire mounting details, please reference arms and accessories.

Direct Embedment

Pole Catalog Number	Pole Height Above Grade	Assumed Embedment Depth*	Overall Pole Length	Pole Butt Flat to Flat (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
E-150-APO-G	11' 0"	4' 0"	15' 0"	7.25	5400	495
E-175-APO-G	13' 6"	4' 0"	17' 6"	7.56	6500	600
E-200-APO-G	16' 0"	4' 0"	20' 0"	7.88	8400	710
E-225-APO-G	18' 6"	4' 0"	22' 6"	8.19	9900	825
E-250-APO-G	20' 0"	5' 0"	25' 0"	8.50	10800	975
E-275-APO-G	22' 6"	5' 0"	27' 6"	8.81	12300	1110
E-300-APO-G	25' 0"	5' 0"	30' 0"	9.13	13800	1255
E-325-APO-G	27' 0"	5' 6"	32' 6"	9.44	15000	1400
E-350-APO-G	29' 6"	5' 6"	35' 0"	9.75	16500	1555
E-375-APO-G	32' 0"	5' 6"	37' 6"	10.06	18000	1735
E-400-APO-G	34' 0"	6' 0"	40' 0"	10.38	19200	1990

Base Plate

Pole Catalog Number	Pole Height Above Grade	Pole Butt Flat to Flat (Inches)	Base Plate Size (Inches)	Bolt Circle*** (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
P-150-APO-G	15' 0"	7.25	11.5 x 11.5	11.5	7800	538
P-175-APO-G	17' 6"	7.56	11.5 x 11.5	11.5	9300	640
P-200-APO-G	20' 0"	7.88	11.5 x 11.5	11.5	10800	750
P-225-APO-G	22' 6"	8.19	11.5 x 11.5	11.5	12300	870
P-250-APO-G	25' 0"	8.50	11.5 x 11.5	11.5	13800	1020
P-275-APO-G	27' 6"	8.81	11.5 x 11.5	11.5	15300	1155
P-300-APO-G	30' 0"	9.15	11.5 x 11.5	11.5	16800	1300
P-325-APO-G	32' 6"	9.44	14.5 x 14.5	17	18300	1480
P-350-APO-G	35' 0"	9.75	14.5 x 14.5	17	19800	1635

* Recommended burial depth for normal soils. Where large imbalanced loads are applied or soil strength is questionable, deeper burial may be necessary.
** Ultimate Ground Line Moment = Height above grade minus 2 ft x transverse bending strength.
*** Anchor bolt information - 11.5" BC uses 3/4" x 27" anchor bolts. 17" BC uses 1" x 36" anchor bolts.

Class - EPA Loading

	Pole Height Above Grade	Post Top & Bal. Loads	Imbalanced Loads 4' arm	6' arm	8' arm
90 MPH	20	13 3/4	12	10 3/4	9 1/4
	25	11 1/4	9 3/4	9	7 3/4
	30	8 3/4	7 1/2	6 3/4	5 3/4
	35	6	5	4 1/2	3 3/4
100 MPH	20	9 3/4	8 1/2	7 1/2	6 1/4
	25	7 1/4	6 1/2	5 3/4	4 3/4
	30	5	4	3 1/2	2 3/4
	35	2 1/2	1 3/4	1 1/4	1/2
110 MPH	20	7	5 3/4	5	4
	25	4 3/4	3 3/4	3 1/4	2 1/2
	30	2 1/4	1 1/2	1	1/2
	35	---	—	—	—
120 MPH	20	4 3/4	4	3 1/4	2 1/4
	25	2 3/4	1 3/4	1 3/4	3/4
	30	1/4	—	—	—
	35	---	—	—	—
130 MPH	20	3 1/4	2 1/4	1 3/4	1
	25	1 1/4	1/4	—	—
	30	---	—	—	—
	35	---	—	—	—
140 MPH	20	1 3/4	1 1/4	3/4	—
	25	---	—	—	—
	30	---	—	—	—
	35	---	—	—	—
150 MPH	20	3/4	1/4	—	—
	25	---	—	—	—
	30	---	—	—	—
	35	---	—	—	—

Decor Colors & Finishes

Color / Finish	Eclipse (Black)	Ash White	Pearl Gray	Dusty Rose	Aztec Jade (Green)	Desert Sand (Buff)	Saluki Bronze (Brown)
Etched Finish	E11	E35	E40	E41	E51	E70	E90
Polished	S11	S35	S40	S41	S51	S70	S90

Mold finish, catalog #M00, is standard on all poles. Decor colors and finishes must be specified. A clear acrylic coating is standard on all Decor poles.

◄ When selecting a pole strength class, care must be taken to ensure it will carry the desired EPA loading of arm and luminaire for the wind conditions at your location. If you are unsure of your location's wind condition, please reference Isotach Map in General and Technical section.

StressCrete

LP-11

Streetlighting Arms and Accessories
Spun concrete poles can be adapted to fit most arms or accessories. Our standards are detailed in the "Arms and Accessories" section of this catalog. If a specific item is not shown, please call your local representative or our sales office.

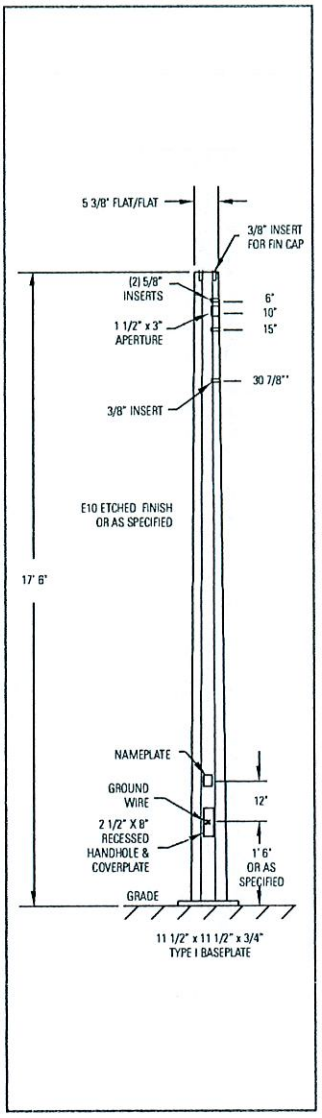
When requesting StressCrete to supply arms, please ensure compatability with luminaire.

Finishes
Mold finish is standard on all poles. If a Decor or custom finish is desired it must be specified in the pole catalog number. Please see lower right front page for information, or turn to Decor section.

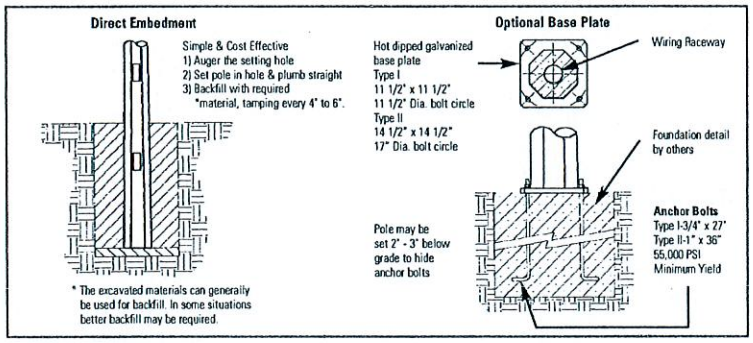
Standard Openings and Handholes
(For more detailed information, please reference General and Technical section.)

- 2 1/2" x 8" is the standard handhole box located 18" above grade. Both it and the tight fitting coverplate are available in non-metallic, non-conductive injection molded material or a rugged high density cast zinc.
- Standard coverplate fasteners are 1/4" stainless steel with either Allen (hex) head for the United States or black Robertson #3 (square) head in Canada. Tamperproof and non-standard fasteners are available but must be specified.
- Standard above grade wiring apertures vary with arm selection but are generally 1 1/4" diameter holes or 1 1/2" x 3" openings. Below grade apertures are 2 1/2" x 5" double openings 18" below grade in line with handhole.
- Non-standard sizes can be made available on request; please contact our sales office.
- Galvanized steel or zinc inserts are available in 1/8" increments from 1/4" through 3/4".
- Through holes are nominal 1/2", 3/4", or 1".

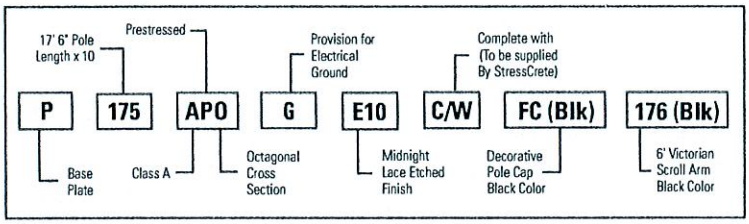
Electrical Grounding
The last letter of our pole catalog number "G" specifies that the pole will be supplied complete with a #6 stranded copper ground wire. When properly connected, this will electrically ground the pole. If the pole is not to be electrically grounded, simply delete the letter "G" from the catalog number.



Footings



Typical Catalog Numbers



Typical for all types:
1. Select footing type - direct embedment or base plate.
2. Select pole length - if direct embedded allow for embedment length.
3. Select shape and strength of pole.
4. If required, select provision for electrical grounding of pole.
5. If desired, select Decor color and finish.
6. Select luminaire mounting style - see arms and accessories.

StressCrete

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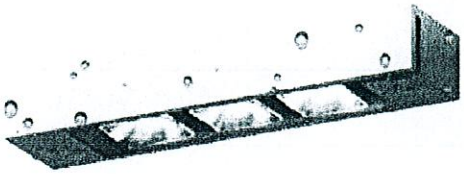
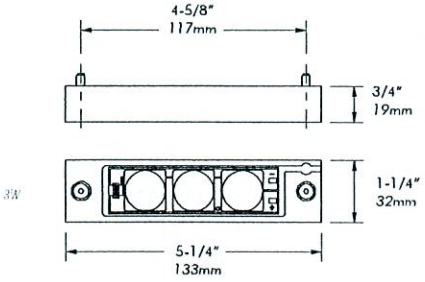
FIXTURE 'H'

'TURTLE-FRIENDLY' STEPLIGHT





Surface Mount Linear Light

L151

SPEC SHEET

Application: Exterior/interior wall, stair, and walkway illumination.

Electrical: 3 x 1W, 350mA LEDs.

LED Input Voltage: 12V DC
Power Consumption: 4W

Power Supply: (not included)
DC - Powered by remote 120V primary, 350mA constant current or 12V constant voltage driver. Recommended TLDAV60W12. Dimmable with TLC010i dimming controller. Consult factory.

Weight: 0.30lbs (0.135kg)

Material: Anodized aluminum. RoHS compliant.

Mounting: Surface mount with 6" (152mm) wire lead.

Approval: Wet and dry locations. Approved to US and Canadian standards by CSA.

Note: *Can be used as emergency backup lighting in conjunction with Bodine emergency LED driver. Consult MP Lighting factory.*

Type:

Project:

Modified:

Quantity:

Notes:

CODE		LENGTH	COLOR	BEAM		FINISH
L151	-	5	RD		-	MA

5 = 5-1/4" (3W)

RD = red

12 = 12° beam
30 = 30° beam
60 = 60° beam
120 = 120° beam (no lens)

MA = matte clear anodized

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Surface Mount Linear Light

L151

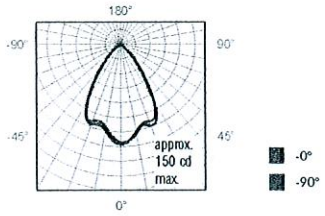
SPEC SHEET

Lumen test results provided by MP Lighting integrating sphere

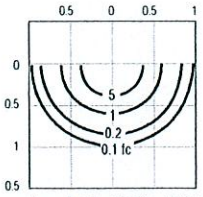
Photometric Data

L151
3W, 30°
Red
144 lm

Polar Candela Distribution



Isofootcandle Plot



Mount height: 3 ft Total LLF: 0.69

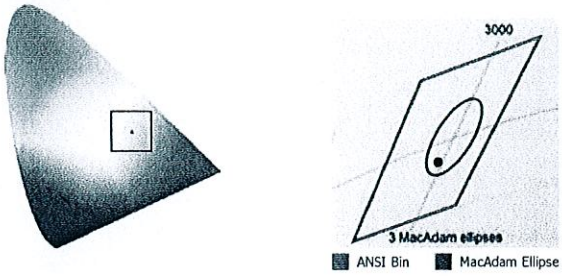
Height Conversion Formula

Step 1 $\frac{\text{Existing Mounting Height}^2}{\text{New Mounting Height}^2} = \text{Correction Factor (CF)}$

Step 2 CF x Footcandle = New Mounting Height FC

Note: *Information is based on the most current data available; however, various operating factors such as reflectances and application type may cause differences between lab and field results. Due to continuous improvements, specifications may change without notice. Consult www.mplighting.com for the most current information.*

Chromaticity Diagram



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Note: *Various operating factors may cause differences between lab and field results. As specifications may change without notice, please refer to the LED Lamp Index located in the "Downloads" section of each product webpage for the most current information.*

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HENDERSON BEACH RESORT
OUTDOOR LIGHTING PERMIT DOCUMENTS
DESCRIPTION OF ILLUMINATING DEVICES

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