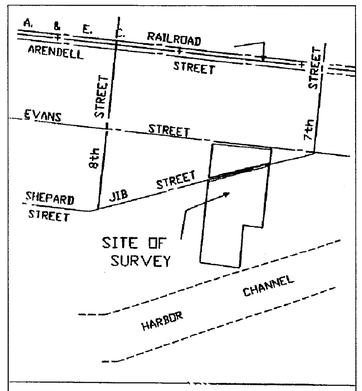
"JIB" PROPERTY WATERFRONT AMENITY PHASE I

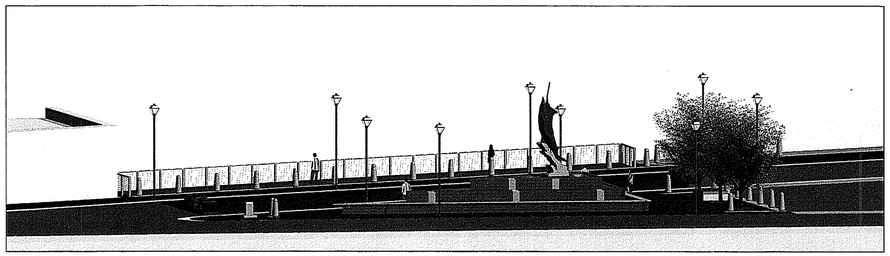
'JIB' PLAZA, MARLIN FOUNTAIN, & OBSERVATION DECK

705 & 707 SHEPARD STREET
MOREHEAD CITY, NC 28557

OWNER: TOWN OF MOREHEAD CITY
706 ARENDELL STREET
MOREHEAD CITY, NC 28557



VICINITY SKETCH
NOT TO SCALE



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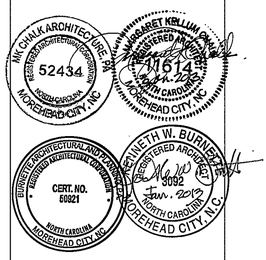
SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557
PHASE I

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 19 DECEMBER 2012
CHECK BY: MKC
DRAWN BY: MKD & LNS
SCALE: NTS

TS-001

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 & 2 FAMILY DWELLINGS & TOWNHOUSES)

NAME OF PROJECT: JIB WATERFRONT AMENITY, PHASE I
ADDRESS: 705 & 707 SHEPARD STREET, MOREHEAD CITY, NC ZIP CODE: 28557
PROPOSED USE: WATERFRONT RECREATION & WATER ACCESS
OWNER/AUTHORIZED AGENT: M. K. CHALK ARCHITECTURE, PA PHONE #: (252) 726-3099 EMAIL: mkcarchitect@ec.rr.com
OWNED BY: TOWN OF MOREHEAD CITY [X] CITY/COUNTY [ ] PRIVATE [ ] STATE
CODE ENFORCEMENT JURISDICTION: [X] CITY MOREHEAD CITY [X] COUNTY CARTERET [ ] STATE

LEAD DESIGN PROFESSIONAL: MK CHALK ARCHITECTURE, PA

DESIGNER	FIRM	NAME	LICENSE	TELEPHONE	EMAIL
ARCHITECTURAL	MK CHALK ARCHITECTURE, PA	Maggie Chalk	11614	(252) 726-3099	mkcarchitect@ec.rr.com
CIVIL	McDavid Associates Inc. Consulting	Tyndall Lewis	7469	(919) 736-7630	ttl@mcdavid-inc.com
ELECTRICAL	Stroud Engineering	Mike Stroud	21990	(252) 756-9352	msdroud@stroudengineer.com
FIRE ALARM	N/A				
PLUMBING	Stroud Engineering	Mike Stroud	21990	(252) 756-9352	msdroud@stroudengineer.com
MECHANICAL	Stroud Engineering	Mike Stroud	21990	(252) 756-9352	msdroud@stroudengineer.com
SPRINKLER/STANDPIPE	N/A				
STRUCTURAL	Andrew Consulting Engineers, P.C.	Neil Andrew	23591	(910) 202-5555	neal@andrewengineers.com
RETAINING WALLS > 5' HIGH	N/A				
OTHER	Burnette Architecture and Planning	Ken Burnette	3092	(252) 726-5387	burnettearch@embarqmail.com

2012 EDITION OF NC CODE FOR: [X] NEW CONSTRUCTION [ ] ADDITION [ ] UPFIT
EXISTING: [ ] RECONSTRUCTION [ ] ALTERATION [ ] REPAIR [ ] RENOVATION
CONSTRUCTED: (DATE)
RENOVATED: (DATE)
ORIGINAL USE(S) (CH. 3):
CURRENT USE(S) (CH. 3):
PROPOSED USE(S) (CH. 3):

BASIC BUILDING DATA

CONSTRUCTION TYPE: (CHECK ALL THAT APPLY) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [X] V-A [X] V-B

SPRINKLERS: [X] NO [ ] PARTIAL [ ] YES [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
STANDPIPES: [X] NO [ ] YES CLASS [ ] I [ ] II [ ] III [ ] WET [ ] DRY
FIRE DISTRICT: [X] NO [ ] YES (PRIMARY) FLOOD HAZARD AREA: [ ] NO [X] YES
BUILDING HEIGHT: FEET 0'

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6TH FLOOR			
5TH FLOOR			
4TH FLOOR			
3RD FLOOR			
2ND FLOOR			
MEZZANINE			
1ST FLOOR			
Plaza & Fountain (4976) + Street Pavers & Observation Deck (6465) = 11441			
TOTAL	0	11441	11441

ALLOWABLE AREA

OCCUPANCY:
ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [X] A-5
BUSINESS [ ]
EDUCATIONAL [ ]
FACTORY [ ] F-1 MODERATE [ ] F-2 LOW
HAZARDOUS [ ] H-1 DETONATE [ ] H-2 DEFLAGRATE [ ] H-3 COMBUST [ ] H-4 HEALTH [ ] H-5 HPM
INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 CONDITION [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
MERCANTILE [ ]
RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
STORAGE [ ] S-1 MODERATE [ ] S-2 LOW [ ] HIGH-PILED
[ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR GARAGE
UTILITY AND MISCELLANEOUS [ ]

ACCESSORY OCCUPANCIES: (NONE)
ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
BUSINESS [ ]
EDUCATIONAL [ ]
FACTORY [ ] F-1 MODERATE [ ] F-2 LOW
HAZARDOUS [ ] H-1 DETONATE [ ] H-2 DEFLAGRATE [ ] H-3 COMBUST [ ] H-4 HEALTH [ ] H-5 HPM
INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 CONDITION [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
MERCANTILE [ ]
RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
STORAGE [ ] S-1 MODERATE [ ] S-2 LOW [ ] HIGH-PILED
[ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR GARAGE
UTILITY AND MISCELLANEOUS [ ]

INCIDENTAL USES (TABLE 508.2.5) : (NONE)
[ ] FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
[ ] ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
[ ] REFRIGERANT MACHINE ROOM
[ ] HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
[ ] INCINERATOR ROOMS
[ ] PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
[ ] LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN A GROUP E OR I-2 OCCUPANCY
[ ] LAUNDRY ROOMS OVER 100 SQUARE FEET
[ ] GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES
[ ] GROUP I-2 WASTE AND LINEN COLLECTION ROOMS
[ ] WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET
[ ] STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
[ ] ROOMS CONTAINING FIRE PUMPS
[ ] GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET
[ ] GROUP I-2 COMMERCIAL KITCHENS
[ ] GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
[ ] GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT

SPECIAL USES: (NONE)
[ ] 402 [ ] 403 [ ] 404 [ ] 405 [ ] 406 [ ] 407 [ ] 408 [ ] 409 [ ] 410 [ ] 411 [ ] 412
[ ] 413 [ ] 414 [ ] 415 [ ] 416 [ ] 417 [ ] 418 [ ] 419 [ ] 420 [ ] 421 [ ] 422 [ ] 423 [ ] 424
[ ] 425 [ ] 426 [ ] 427

SPECIAL PROVISIONS: (NONE) [ ] 509.2 [ ] 509.3 [ ] 509.4 [ ] 509.5 [ ] 509.6 [ ] 509.7 [ ] 509.8 [ ] 509.9

MIXED OCCUPANCY: [X] NO [ ] YES SEPARATION: ____ HR. EXCEPTION: ____
[ ] INCIDENTAL USE SEPARATION (508.2.5)
THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).

N/A [ ] NON-SEPARATED USE (508.3.)
THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

N/A [ ] SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS
FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE & SHALL NOT EXCEED 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1.00$$

$$___ + ___ + \ldots = ___ \leq 1.00$$

(NOT APPLICABLE)

STORY NO	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503[5] AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]

1. FRONTAGE AREA INCREASES FROM SECTION 506.2 AREA COMPUTED THUS: N/A
   A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FT MIN. WIDTH = ____ (F)
   B. TOTAL BUILDING PERIMETER = ____ (P)
   C. RATIO (F / P) = ____ (F/P)
   D. W = MINIMUM WIDTH OF PUBLIC WAY = ____ (W)
   E. PERCENT OF FRONTAGE INCREASE I_f = 100 [F/P - 0.25] x W / 30 = ____ (%)
2. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS: N/A
   A. MULTI-STORY BUILDING I_s = 200 PERCENT
   B. SINGLE STORY BUILDING I_s = 300 PERCENT
3. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTIONS (507). N/A
4. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x E (506.4) N/A
5. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2. N/A

ALLOWABLE HEIGHT (NOT APPLICABLE)

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE		TYPE	
BUILDING HEIGHT IN FEET		FEET = H + 20'		
BUILDING HEIGHT IN STORIES		STORIES + 1	STORIES	

FIRE PROTECTION REQUIREMENTS (NOT APPLICABLE)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ ____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES							
BEARING WALLS							
EXTERIOR							
NORTH							
EAST							
WEST							
SOUTH							
INTERIOR							
NONBEARING WALLS AND PARTITIONS							
EXTERIOR WALLS							
NORTH							
EAST							
WEST							
SOUTH							
INTERIOR WALLS & PARTITIONS							
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST							
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST							
SHAFT ENCLOSURES - EXIT							
SHAFT ENCLOSURES - OTHER							
CORRIDOR SEPARATION							
OCCUPANCY SEPARATION							
PARTY/FIRE WALL SEPARATION							
SMOKE BARRIER SEPARATION							
TENANT SEPARATION							
INCIDENTAL USE SEPARATION							

* INDICATE SECTION NUMBER PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS (NOT APPLICABLE)

EMERGENCY LIGHTING: [ ] NO [ ] YES
EXIT SIGNS: [ ] NO [ ] YES
FIRE ALARM: [ ] NO [ ] YES
SMOKE DETECTION SYSTEMS: [ ] NO [ ] YES [ ] PARTIAL ____
PANIC HARDWARE: [ ] NO [ ] YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: N/A
[ ] FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
[ ] ASSUMED AND REAL PROPERTY LINE LOCATIONS
[ ] EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
[ ] EXISTING STRUCTURES WITHIN 30' OF PROPOSED BUILDING
[ ] OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)
[ ] OCCUPANT LOADS FOR EACH AREA
[ ] EXIT ACCESS TRAVEL DISTANCES (1016)
[ ] COMMON PATH OF TRAVEL DISTANCES (1014.3 & 1028.8)
[ ] DEAD END LENGTHS (1018.4)
[ ] CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
[ ] MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
[ ] ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
[ ] A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
[ ] LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10)
[ ] LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.9.7)
[ ] LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8)
[ ] LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
[ ] LOCATION OF EMERGENCY ESCAPE WINDOWS (1029)
[ ] THE SQUARE FOOTAGE OF EACH FIRE AREA (902)
[ ] THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4)
[ ] NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (NOT APPLICABLE)

(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (EXISTING)

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACE WITH 132" ACCESS AISLE	VAN SPACE WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
N/A	N/A					
TOTAL						

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS:
WIND (I_W) 1.0
SNOW (I_S) 1.0
SEISMIC (I_E) 1.0

LIVE LOADS:
ROOF N/A PSF
MEZZANINE N/A PSF
FLOOR 100 PSF
GROUND SNOW LOAD: 10 PSF

WIND LOAD:
BASIC WIND SPEED 135 MPH (ASCE-7)
EXPOSURE CATEGORY C
WIND BASE SHEARS (FOR MWFRS)
V_x = 10.4 K V_y = 1.2 K (DECK)
V_x = 9.6 K V_y = 6.6 K (FOUNTAIN)

SEISMIC DESIGN CATEGORY [ ] A [X] B [ ] C [ ] D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 1604.5) [ ] I [X] II [ ] III [ ] IV
SPECTRAL RESPONSE ACCELERATION S_s 0.151 %g S_1 0.063 %g
SITE CLASSIFICATION (TABLE 1613.5.2) [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F
DATA SOURCE: [X] FIELD TEST [ ] PRESUMPTIVE [ ] HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)
[X] BEARING WALL [ ] DUAL W/SPECIAL MOMENT FRAME
[X] BUILDING FRAME [ ] DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL
[ ] MOMENT FRAME [ ] INVERTED PEND/ULUM
SEISMIC BASE SHEAR V_x = 3.8 K V_y = 3.8 K (DECK) V_x = 16 K V_y = 16 K (FOUNTAIN)
ANALYSIS PROCEDURE [ ] SIMPLIFIED [X] EQUIVALENT LATERAL FORCE [ ] DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED ? [ ] YES [X] NO NOT REQUIRED

LATERAL DESIGN CONTROL: EARTHQUAKE [X] WIND [X] V_x = Wind V_y = Seismic (DECK)
V_x & V_y = Seismic (FOUNTAIN)

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) 2000 PSF
PRESUMPTIVE BEARING CAPACITY N/A PSF
PILE SIZE, TYPE, AND CAPACITY 10 X 10 Reinforced Concrete

SPECIAL INSPECTIONS REQUIRED: [X] YES [ ] NO

PLUMBING FIXTURE REQUIREMENTS (NOT APPLICABLE)

(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXISTING								
	NEW								
	REQUIRED								

SPECIAL APPROVALS

SPECIAL APPROVAL:
(LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

TOWN OF MOREHEAD CITY

ENERGY SUMMARY

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS. ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

CLIMATE ZONE: [X] 3 [ ] 4 [ ] 5

METHOD OF COMPLIANCE:
[ ] PRESCRIPTIVE (ENERGY CODE)
[ ] PERFORMANCE (ENERGY CODE)
[ ] PRESCRIPTIVE (ASHRAE 90.1)
[ ] PERFORMANCE (ASHRAE 90.1)

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION
SKYLIGHTS IN EACH ASSEMBLY
U-VALUE OF SKYLIGHT
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY

EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY N/A
U-VALUE OF TOTAL ASSEMBLY
R -VALUE OF INSULATION
OPENINGS (WINDOWS OR DOORS WITH GLAZING)
U-VALUE OF ASSEMBLY
SOLAR HEAT GAIN COEFFICIENT
PROJECTION FACTOR
DOOR R-VALUES

WALLS BELOW GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION
HORIZONTAL/VERTICAL REQUIREMENT
SLAB HEATED

MECHANICAL SUMMARY - REFER TO MECHANICAL DRAWINGS

MECHANICAL SYSTEM, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE
WINTER DRY BULB: N/A
SUMMER DRY BULB:

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB: N/A
SUMMER DRY BULB:
RELATIVE HUMIDITY:

BUILDING HEATING LOAD: N/A

BUILDING COOLING LOAD: N/A

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
DESCRIPTION OF UNIT: N/A
HEATING EFFICIENCY:
COOLING EFFICIENCY:
SIZE CATEGORY OF UNIT:

BOILER
SIZE CATEGORY. IF OVERSIZED, STATE REASON. N/A

CHILLER
SIZE CATEGORY. IF OVERSIZED, STATE REASON. N/A

LIST EQUIPMENT EFFICIENCIES N/A

ELECTRICAL SUMMARY - REFER TO ELECTRICAL DRAWINGS

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE [X] PRESCRIPTIVE [ ] PERFORMANCE
ASHRAE 90.1 [X] PRESCRIPTIVE [ ] PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
LAMP TYPE REQUIRED IN FIXTURE See Electrical Plans
NUMBER OF LAMPS IN FIXTURE See Electrical Plans
BALLAST TYPE USED IN FIXTURE See Electrical Plans
NUMBER OF BALLASTS IN FIXTURE See Electrical Plans
TOTAL WATTAGE PER FIXTURE =60W
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) N/A
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED N/A All lighting is low voltage landscape lighting.

ADDITIONAL PRESCRIPTIVE COMPLIANCE
N/A [ ] 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
N/A [ ] 506.2.2 REDUCED LIGHTING POWER DENSITY
N/A [ ] 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
N/A [ ] 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
N/A [ ] 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
N/A [ ] 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

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NEAL W. ANDREW, P.E.
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BURNETTE ARCHITECTURAL AND PLANNING REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 60921 NORTH CAROLINA MOREHEAD CITY, NC

KENNETH W. BURNETTE REGISTERED ARCHITECT 3092 Jan. 2013 NORTH CAROLINA MOREHEAD CITY, N.C.

REVISIONS:

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WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE I

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 3 JAN. 2013
CHECK BY: MKC
DRAWN BY: LNS
SCALE: NTS

APPENDIX B

GD-001

STANDARD ABBREVIATIONS:

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A/C	AIR CONDITIONER
ACOUST	ACOUSTICAL
ADD	ADDENDUM
ADJ	ADJUSTABLE/ADJACENT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK/BEAM
BTM	BOTTOM
BED	BEDROOM
BRG	BEARING
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
CAB	CABINET
CAMA	COASTAL AREA MANAGEMENT AUTHORITY
CSMT	CASEMENT
CB	CATCH BASIN
CI	CAST IRON
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
CO	CLEAN OUT
CY	CUBIC YARD
CEM	CEMENT
CER	CERAMIC
CT	CERAMIC TILE
CH	CEILING HEIGHT
CLG	CEILING
CL	CENTER LINE
CLOS	CLOSET
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONTR	CONTRACTOR
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CTSK	COUNTER SINK
D	DRYER
DH	DOUBLE HUNG
DL	DEAD LOAD
DS	DOWN SPOUT
DW	DISHWASHER
DBL	DOUBLE
DEM	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DR	DOOR
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EL	ELEVATION
EJ	EXPANSION JOINT
ES	EACH SIDE
EW	EACH WAY
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEC	ELECTRIC (AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSE (URE)
(E)/EXIST	EXISTING
EQUIP	EQUIPMENT
EXHST	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH (ED)
FJ	FLOOR JOINT
FLR	FLOOR (ING)
FLSHG	FLASHING
FNDT	FOUNDATION
FS	FULL SIZE
FT	FOOT
FTG	FOOTING
FUT	FUTURE
FRGYPBD	FIRE RATED GYPSUM BOARD
FRTW	FIRE RETARDANT TREATED WOOD
GA	GAUGE
GB	GRAB BARS
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HB	HOSE BULB
HC	HOLLOW CORE
HM	HOLLOW METAL
HDW	HARDWARE
HDG	HOT DIPPED GALVANIZED
HR	HOUR
HWH	HOT WATER HEATER
HD	HEAD
HDR	HEADER
HDWR	HARDWARE
HORZ	HORIZONTAL
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATION/AC
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ID	INSIDE DIAMETER
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
JST	JOIST
JT	JOINT
KIT	KITCHEN
KD	KNOCK DOWN
KO	KNOCKOUT
L	LENGTH
LL	LIVE LOAD
LW	LIGHT WEIGHT
LAM	LAMINATED
LGT	LIGHT
LTL	LINTEL
LAV	LAVATORY
LG	LONG
LINO	LINOLEUM
LWB	LIGHT WEIGHT BLOCK
LVR	LOUVER
MO	MASONRY OPENING
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MACH	MACHINE
MBR	MEMBER
MED	MEDIUM
MULL	MULLION
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
N	NORTH
NC	NORTH CAROLINA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO/#	NUMBER
NOM	NOMINAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVER HEAD
OHDR	OVERHEAD DOOR
OA	OVERALL
OPP	OPPOSITE
OPNG	OPENING
PL	PROPERTY LINE
PP	POWER POLE
PR	PAIR
PT	PORCELAIN TILE
PLAM	PLASTIC LAMINATE
PERF	PERFORATE (ED)
PLAS	PLASTER
PLYWD	PLYWOOD
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAINT (ED)
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
R/R	RISER TO RUN
RBT	RABBET
RAD	RADIUS
RA	RETURN AIR
RD	ROOF DRUM
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROUGH SAWN
RE	REFERENCE
REC	RECESSED
REF	REFRIGERATOR
REFL	REFLECTED
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVISION
RFG	ROOFING
SC	SOLID CORE
SD	STORM DRAIN
SF	SQUARE FEET
STD	STANDARD
SS	SERVICE SINK
SS	STORM SEWER
S/S	STAINLESS STEEL
SANSEW	SANITARY SEWER
SEC	SECTION
SCHED	SCHEDULE
STHVNL	SHEET VINYL
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STA	STATION
STND	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CURB
TOW	TOP OF WALL
TEL	TELEPHONE
THK	THICK
TLT	TOILET
TV	TELEVISION
TEMP	TEMPERED OR TEMPERATURE
TERR	TERRAZZO
THRES	THRESHOLD
TMP	TEMPORARY
TYP	TYPICAL
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHER
VARN	VARNISH
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
VERT	VERTICAL
W	WASHER
W	WEST
WC	WATER CLOSET
WPT	WORKING POINT
WG	WIRE GLASS
WF	WIDE FLANGE
WH	WATER HYDRANT
WI	WROUGHT IRON
WIC	WALK-IN-CLOSET
WP	WATER PROOFING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD	WOOD
WSCT	WAINSCOT
WT	WEIGHT

PROJECT NOTES:

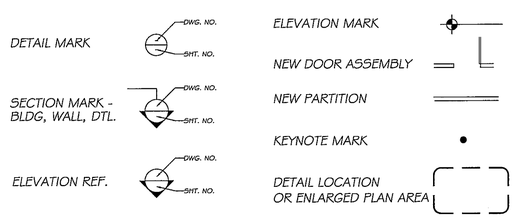
1. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST APPROVED EDITION OF THE NORTH CAROLINA BUILDING CODES.
2. INSTALL ALL ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURE.
3. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING UNLESS OTHERWISE NOTED. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
4. GENERAL CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS, CLEARANCES AND CONDITIONS IN FIELD BEFORE BEGINNING CONSTRUCTION.
5. BY ACCEPTING THIS CONTRACT THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
6. THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE WILL BE THE INTERPRETER OF THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL MAINTAIN CONSTRUCTION AREA TO CONFORM TO ALL APPLICABLE LIFE SAFETY CODES.
8. IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CONFORM TO ALL STANDARDS, PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS PROVIDED IN BUILDINGS AND/OR STRUCTURES AS REQUIRED BY THE NORTH CAROLINA UNIFORM BULDING CODE, LOCAL AGENCIES, LOCAL GOVERNMENTS, AND STATE AND LOCAL REGULATORY BODIES AND IN ACCORDANCE WITH GOOD BUILDING PRACTICE.
9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA.
10. COORDINATION OF MATERIALS, INSTALLATION REQUIREMENTS, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
11. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO KEEP MATERIALS DRY AND FREE FROM MOLD AND MILDEW. REMOVE AND REPLACE ANY MATERIALS FOUND TO HAVE MOLD OR MILDEW.
12. CONTRACTOR SHALL PROTECT ALL EXISTING SITE ELEMENTS, IMPROVEMENTS, AND ADJACENT STRUCTURES.

KEY NOTES:

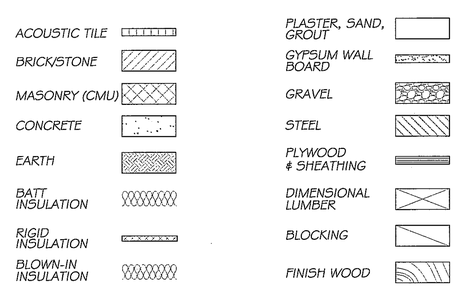
- THE 'JIB' PROPERTY WATERFRONT AMENITY FOR THE TOWN OF MOREHEAD CITY IS TO BE ACCOMPLISHED IN THREE PHASES:
  - PHASE I - CONSTRUCTION OF JIB PLAZA, MARLIN FOUNTAIN, STREET PAVERS, PLANTERS, LANDSCAPING, AND OBSERVATION DECK.
  - PHASE II - CONSTRUCTION OF CAPT. OTTIS' LANDING, WHICH CONSISTS OF A PUBLIC DOCK WITH RESTROOMS & FLOATING BOAT DOCKS.
  - PHASE III- CONSTRUCTION OF A ROOF OVER CAPT. OTTIS' LANDING.

  THESE CONTRACT DOCUMENTS PERTAIN TO PHASE I ONLY.
- NEW PAVERS MUST MATCH, AS CLOSELY AS POSSIBLE, EXISITNG INSTALLED WATERFRONT PAVERS. CONTRACTOR IS TO SUBMIT COLOR SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASING OR INSTALLATION OF NEW PAVERS. FOR INFORMATION ONLY: ORIGINAL PAVERS WERE MANUFACTURED BY INTERLOCK PAVING SYSTEMS, 802 WEST PEMBROKE AVENUE, HAMPTON, VIRGINIA 23669; ORIGINAL COLOR WAS HATTERAS BLEND #34 (DO NOT USE ORIGINAL COLOR - CONTRACTOR MUST MATCH EXISTING PAVERS).
- KENT ULLBERG, SCULPTOR, WILL INSTALL BLUE MARLIN SCULPTURE IN FOUNTAIN DURING THE FINAL 30 DAYS OF CONSTRUCTION. PER CONTRACT DOCUMENTS, CONTRACTOR IS REQUIRED TO COORDINATE SCHEDULING OF ALL WORK RELATED TO THE PROJECT. CONTRACTOR SHOULD CONTACT ARCHITECT FOR SCULPTOR'S CONTACT INFORMATION.

SYMBOLS:



MATERIAL DESIGNATIONS:



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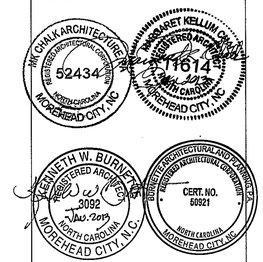
SEAL:



REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

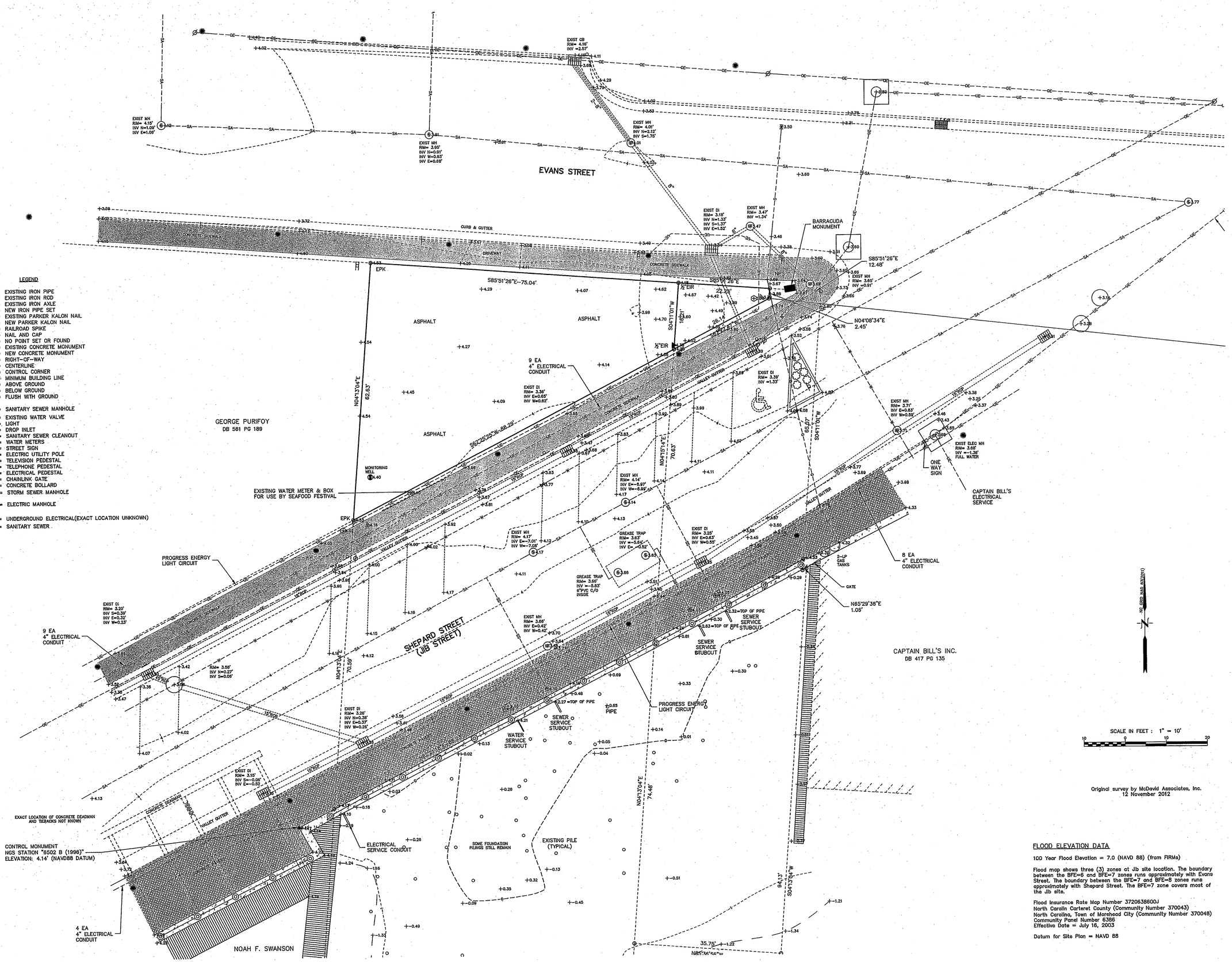
PHASE I

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 19 DECEMBER 2012
CHECK BY: MKC
DRAWN BY: MKD & LNS
SCALE: NTS

GD-002



Original survey by McDavid Associates, Inc.
12 November 2012

FLOOD ELEVATION DATA

100 Year Flood Elevation = 7.0 (NAVD 88) (from FIRMs)

Flood map shows three (3) zones at Jib site location. The boundary between the BFE=6 and BFE=7 zones runs approximately with Evans Street. The boundary between the BFE=7 and BFE=8 zones runs approximately with Shepard Street. The BFE=7 zone covers most of the Jib site.

Flood Insurance Rate Map Number 3720638600J
North Carolin Carteret County (Community Number 370043)
North Carolina, Town of Morehead City (Community Number 370048)
Community Panel Number 6386
Effective Date = July 16, 2003

Datum for Site Plan = NAVD 88

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NORTH CAROLINA PROFESSIONAL SEAL 7469 ENGINEER TYNDALL LEWIS

REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

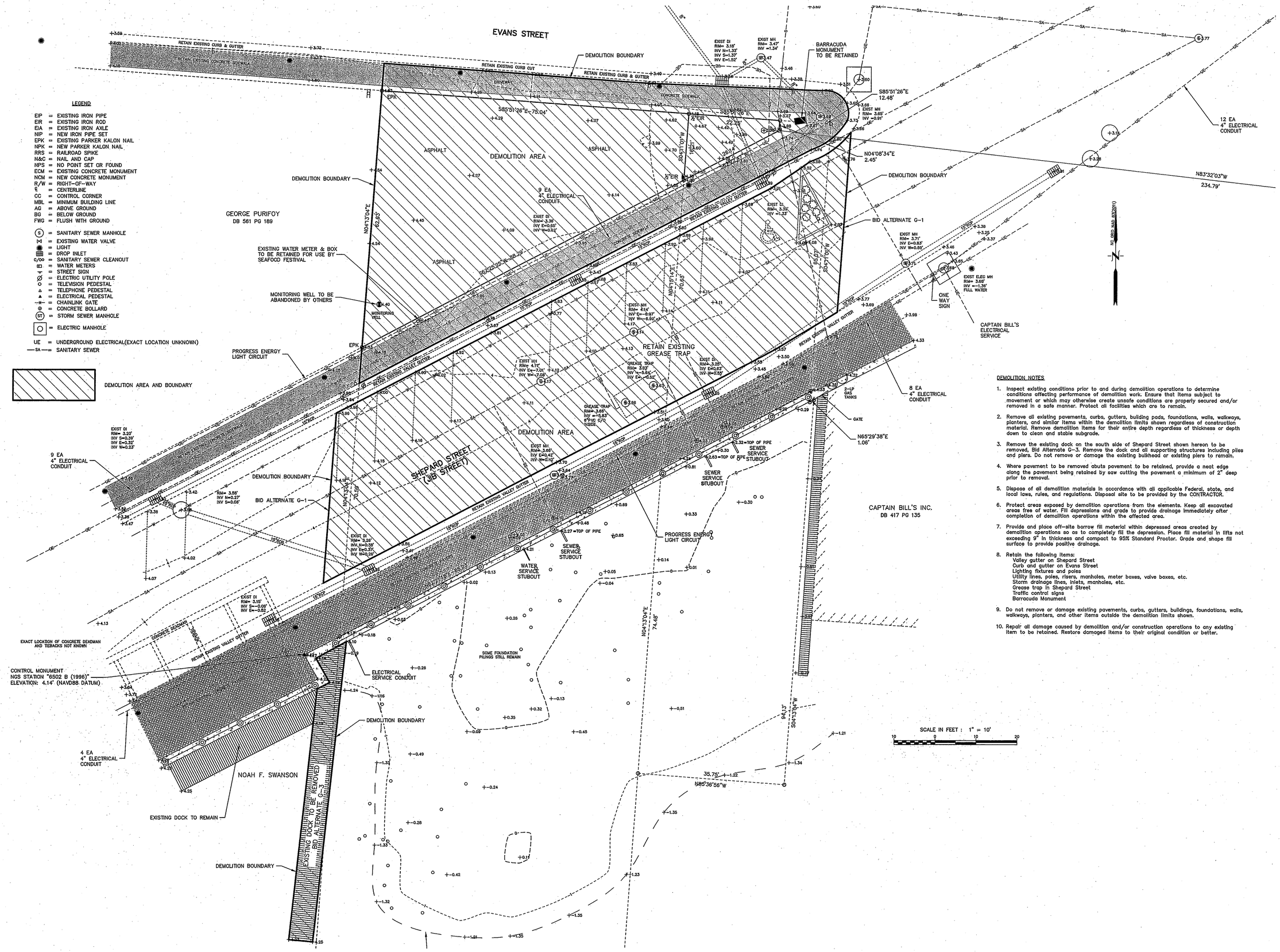
APPROVED BY OWNER DATE

DATE: 3 JANUARY 2013
CHECK BY: FTL
DRAWN BY: RMT
SCALE: 1" = 10'

EXISTING
SITE
SURVEY

C-1

Drawing: W:\D8xx_gen\D84x_eng\D845_ac\12-6033 Chalk-MH City Jib\4700 Eng Const Adm\12-6033-4700-C01-Site Topo.dwg
Layout: Site Topo - MKC Title Block
Plotted: Thursday, January 3, 2013, 9:53:26am



LEGEND

- EIP = EXISTING IRON PIPE
- EIR = EXISTING IRON ROD
- EIA = EXISTING IRON AXLE
- NIP = NEW IRON PIPE SET
- EPK = EXISTING PARKER KALON NAIL
- NPK = NEW PARKER KALON NAIL
- RRS = RAILROAD SPIKE
- N&C = NAIL AND CAP
- NPS = NO POINT SET OR FOUND
- ECM = EXISTING CONCRETE MONUMENT
- NCM = NEW CONCRETE MONUMENT
- R/W = RIGHT-OF-WAY
- ℄ = CENTERLINE
- CC = CONTROL CORNER
- MBL = MINIMUM BUILDING LINE
- AG = ABOVE GROUND
- BG = BELOW GROUND
- FWG = FLUSH WITH GROUND
- (S) = SANITARY SEWER MANHOLE
- ⋈ = EXISTING WATER VALVE
- ◉ = LIGHT
- ▦ = DROP INLET
- c/oo = SANITARY SEWER CLEANOUT
- ◘ = WATER METERS
- ▼ = STREET SIGN
- Ø = ELECTRIC UTILITY POLE
- ○ = TELEVISION PEDESTAL
- △ = TELEPHONE PEDESTAL
- ▲ = ELECTRICAL PEDESTAL
- ⊸⊷ = CHAINLINK GATE
- ◎ = CONCRETE BOLLARD
- (ST) = STORM SEWER MANHOLE
- ◯ = ELECTRIC MANHOLE
- UE = UNDERGROUND ELECTRICAL(EXACT LOCATION UNKNOWN)
- —SA— = SANITARY SEWER

DEMOLITION AREA AND BOUNDARY

DEMOLITION NOTES

1. Inspect existing conditions prior to and during demolition operations to determine conditions affecting performance of demolition work. Ensure that items subject to movement or which may otherwise create unsafe conditions are properly secured and/or removed in a safe manner. Protect all facilities which are to remain.
2. Remove all existing pavements, curbs, gutters, building pads, foundations, walls, walkways, planters, and similar items within the demolition limits shown regardless of construction material. Remove demolition items for their entire depth regardless of thickness or depth down to clean and stable subgrade.
3. Remove the existing dock on the south side of Shepard Street shown hereon to be removed, Bid Alternate G-3. Remove the dock and all supporting structures including piles and piers. Do not remove or damage the existing bulkhead or existing piers to remain.
4. Where pavement to be removed abuts pavement to be retained, provide a neat edge along the pavement being retained by saw cutting the pavement a minimum of 2" deep prior to removal.
5. Dispose of all demolition materials in accordance with all applicable Federal, state, and local laws, rules, and regulations. Disposal site to be provided by the CONTRACTOR.
6. Protect areas exposed by demolition operations from the elements. Keep all excavated areas free of water. Fill depressions and grade to provide drainage immediately after completion of demolition operations within the affected area.
7. Provide and place off-site borrow fill material within depressed areas created by demolition operations so as to completely fill the depression. Place fill material in lifts not exceeding 9" in thickness and compact to 95% Standard Proctor. Grade and shape fill surface to provide positive drainage.
8. Retain the following items:
   - Valley gutter on Shepard Street
   - Curb and gutter on Evans Street
   - Lighting fixtures and poles
   - Utility lines, poles, risers, manholes, meter boxes, valve boxes, etc.
   - Storm drainage lines, inlets, manholes, etc.
   - Grease trap in Shepard Street
   - Traffic control signs
   - Barracuda Monument
9. Do not remove or damage existing pavements, curbs, gutters, buildings, foundations, walls, walkways, planters, and other items outside the demolition limits shown.
10. Repair all damage caused by demolition and/or construction operations to any existing item to be retained. Restore damaged items to their original condition or better.

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SEAL:

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

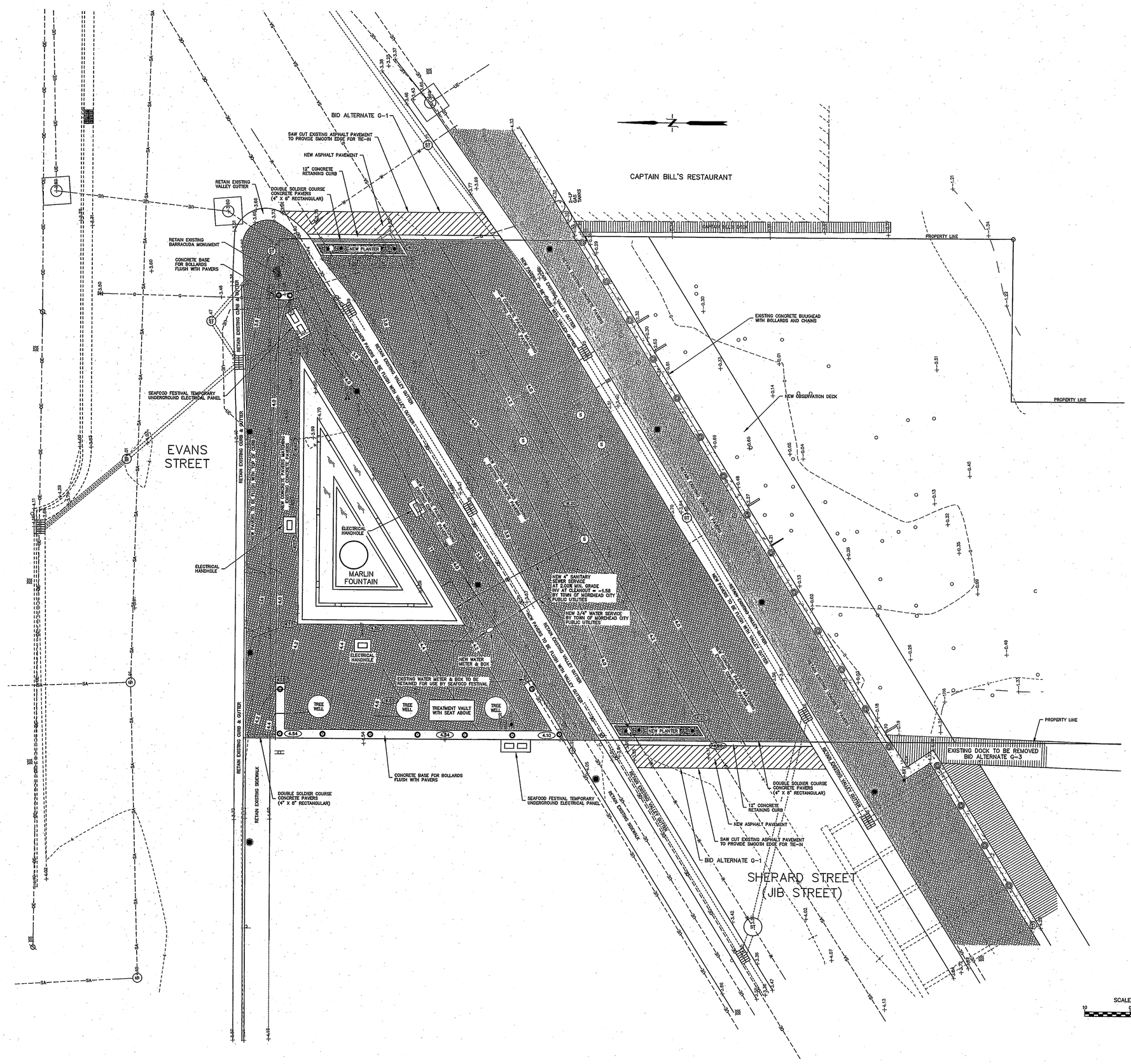
APPROVED BY OWNER DATE

DATE: 3 JANUARY 2013
CHECK BY: FTL
DRAWN BY: RMT
SCALE: 1" = 10'

DEMOLITION PLAN

C-2

Drawing: W:\D8xx_gen\D845_arc\12-6033 Chalk-MH City Jib\4700 Eng Const Adm\12-6033-4700-C02-Demolition Plan.dwg
Layout: Demolition Plan - MKC Title Block
Plotted: Thursday, January 3, 2013, 9:54:08am



NOTES:

1. Proposed contour lines and spot elevations are to finished grade.
2. New 3/4" water and 4" sanitary sewer services shall be installed by the Town of Morehead City Public Utilities to within 5'-0" of the Marlin Fountain.

LEGEND

	EXISTING DROP INLET
ST	EXISTING STORM SEWER MANHOLE
S	EXISTING SANITARY SEWER MANHOLE
SA	EXISTING SANITARY SEWER
4.0	PROPOSED FINISHED CONTOUR LINE
4.17	PROPOSED FINISHED SPOT ELEVATION

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NORTH CAROLINA PROFESSIONAL SEAL 469 ENGINEER TYNDALL LEWIS

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

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DATE: 3 JANUARY 2013
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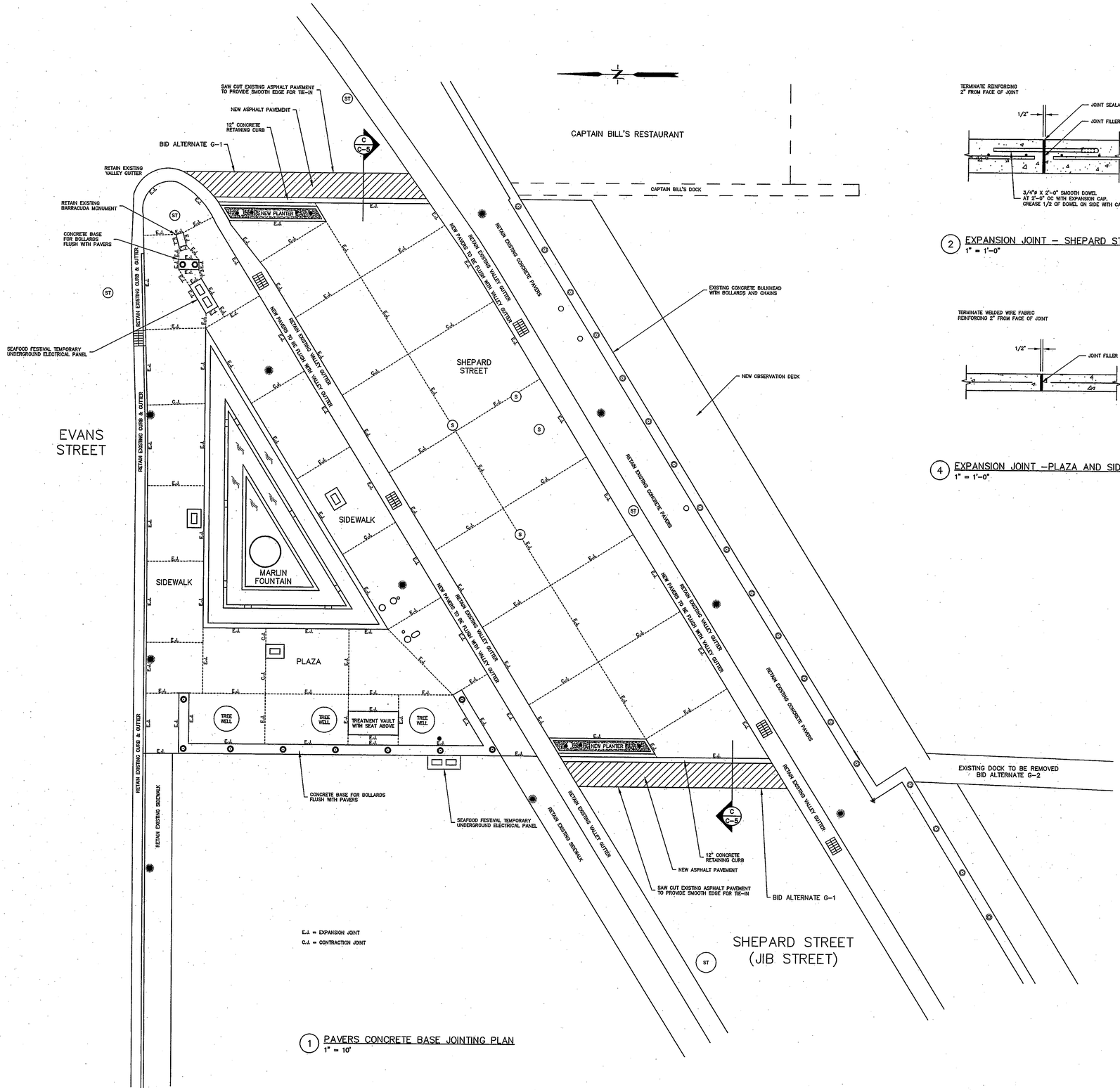
DRAWN BY: RMT
SCALE: 1" = 10'

GRADING AND UTILITY PLAN

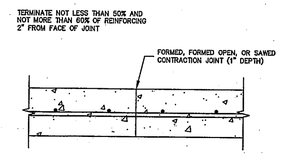
C-3

Drawing: W:\D8xx_gen\D845_ac\12-6033 Chalk-MH City Jib\4700 Eng Const Adm\12-6033-4700-C03-Grading Plan.dwg
Layout: Grading Plan - MKC Title Block
Plotted: Thursday, January 3, 2013, 9:55:13am



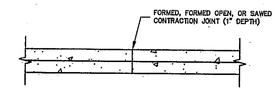
1 PAVERS CONCRETE BASE JOINTING PLAN
1" = 10'

2 EXPANSION JOINT – SHEPARD STREET
1" = 1'-0"



3 CONTRACTION JOINT – SHEPARD STREET
1" = 1'-0"

4 EXPANSION JOINT –PLAZA AND SIDEWALK
1" = 1'-0"



5 CONTRACTION JOINT – PLAZA AND SIDEWALK
1" = 1'-0"

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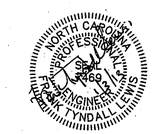
GOLDSBORO, NC

SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

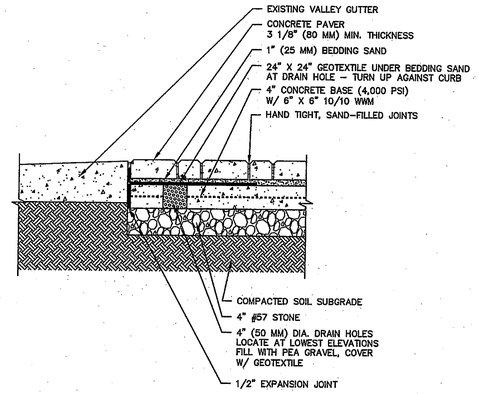
APPROVED BY OWNER DATE

DATE: 3 JANUARY 2013
CHECK BY: FTL
DRAWN BY: RMT
SCALE: 1" = 10'

PAVERS
CONCRETE
BASE
JOINTING
PLAN

C-4

Drawing: W:\DBxx_gen\D845_ac\12-6033 Chalk-MH City Jib\4700 Eng Const Adm\12-6033-4700-C04-Jointing Plan.dwg
Layout: Jointing Plan – MKC Title Block
Plotted: Thursday, January 3, 2013, 10:53:41am

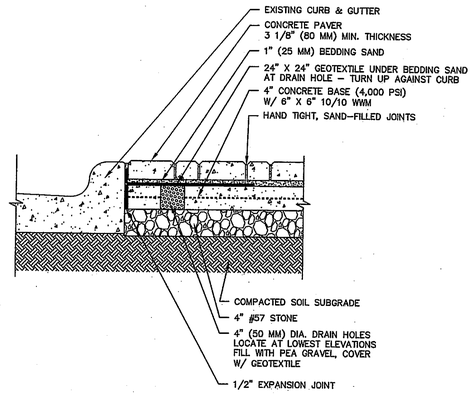


NOTE:
GEOTEXTILE SHALL BE NON–WOVEN TYPE MEETING
THE FOLLOWING REQUIREMENTS:

FABRIC WEIGHT:	10.5 OZ/SY
FABRIC THICKNESS:	140 MILS
WATER FLOW RATE:	120 GPM/SF
TEAR STRENGTH (MD/CD):	140/125 LBS

1" = 1'–0"

CONCRETE PAVERS ABUTTING VALLEY GUTTER | A

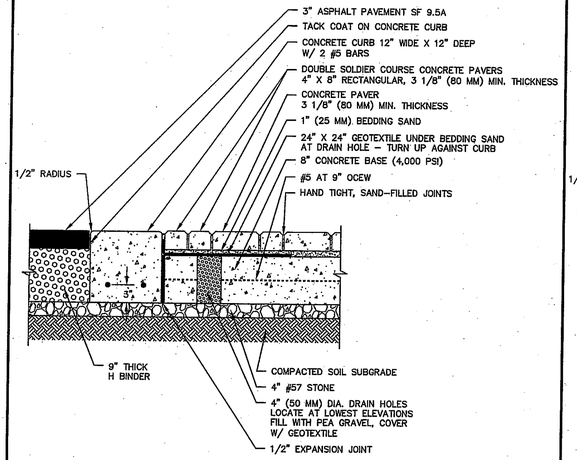


NOTE:
GEOTEXTILE SHALL BE NON–WOVEN TYPE MEETING
THE FOLLOWING REQUIREMENTS:

FABRIC WEIGHT:	10.5 OZ/SY
FABRIC THICKNESS:	140 MILS
WATER FLOW RATE:	120 GPM/SF
TEAR STRENGTH (MD/CD):	140/125 LBS

1" = 1'–0"

CONCRETE PAVERS ABUTTING CURB & GUTTER | B

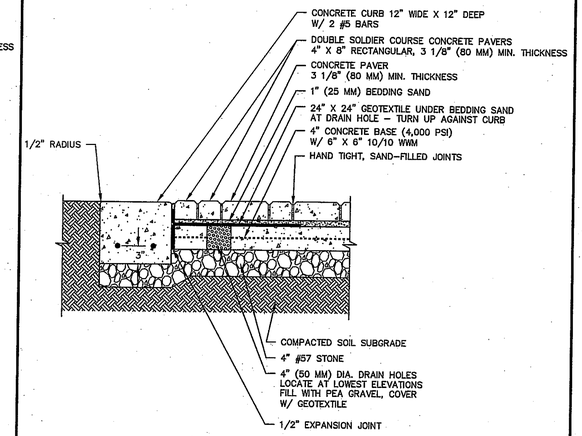


NOTE:
GEOTEXTILE SHALL BE NON–WOVEN TYPE MEETING
THE FOLLOWING REQUIREMENTS:

FABRIC WEIGHT:	10.5 OZ/SY
FABRIC THICKNESS:	140 MILS
WATER FLOW RATE:	120 GPM/SF
TEAR STRENGTH (MD/CD):	140/125 LBS

1" = 1'–0"

STREET PAVING WITH CONCRETE PAVERS | C



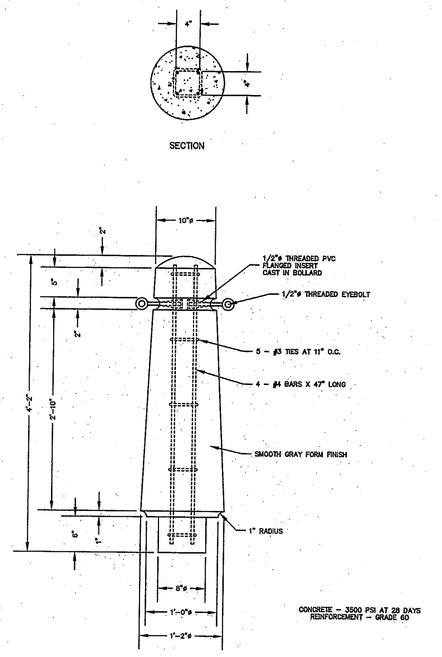
NOTE:
CONCRETE BASE MINIMUM 2% SLOPE FROM CENTERLINE TO CURB.

NOTE:
GEOTEXTILE SHALL BE NON–WOVEN TYPE MEETING
THE FOLLOWING REQUIREMENTS:

FABRIC WEIGHT:	10.5 OZ/SY
FABRIC THICKNESS:	140 MILS
WATER FLOW RATE:	120 GPM/SF
TEAR STRENGTH (MD/CD):	140/125 LBS

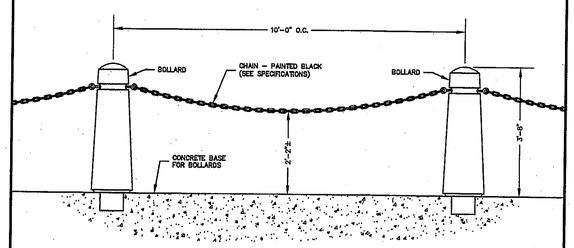
1" = 1'–0"

PLAZA AND SIDEWALK PAVING WITH CONCRETE PAVERS | D

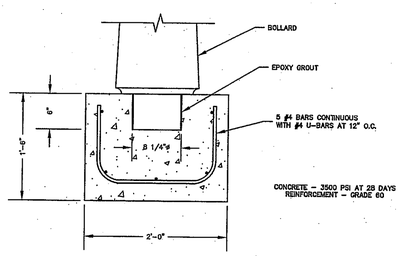


1" = 1'–0"

CONCRETE BOLLARD | E

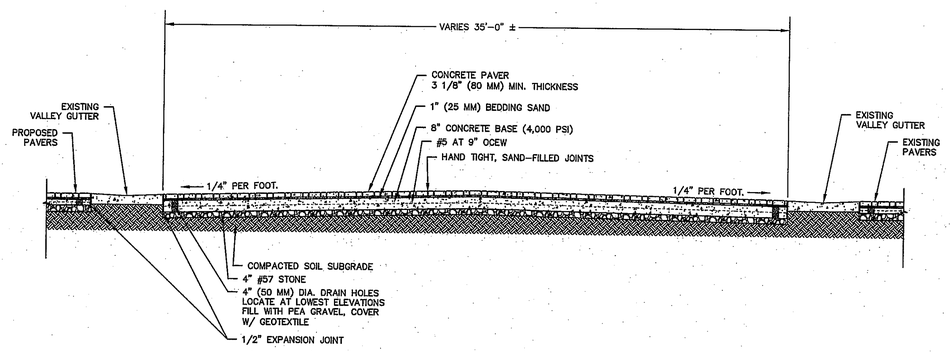


BOLLARD INSTALLATION ELEVATION
1/2" = 1'–0"



CONCRETE BASE FOR BOLLARD MOUNTING
1" = 1'–0"

BOLLARD CONCRETE BASE AND INSTALLATION | F



1/4" = 1'–0"

STREET CROSS-SECTION | G

MK CHALK
ARCHITECTURE, PA
P.O. Box 622
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STROUD ENGINEERING
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GREENVILLE, NC &
MOREHEAD CITY, NC

ENGINEERING CONSULTANT
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ANDREW CONSULTING ENGINEERS
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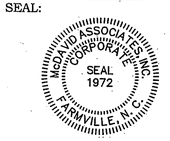
WILMINGTON, NC

CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

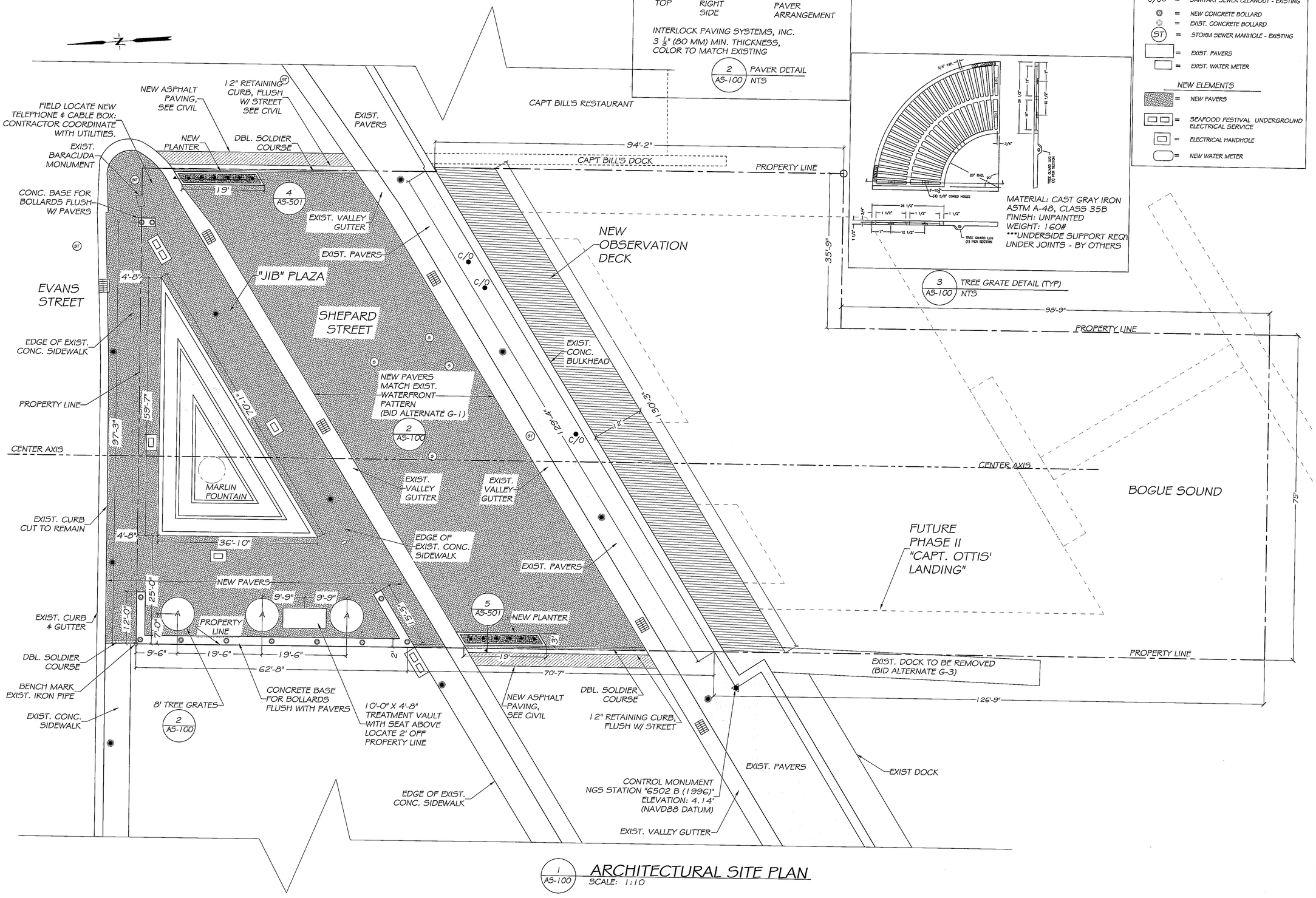
DATE: 3 JANUARY 2013
CHECK BY: FTL
DRAWN BY: RMT
SCALE: AS NOTED

STREET
AND
PAVER
DETAILS

C-5

Drawing: W:\D8xx_gen\D845_oc\12-6033 Chalk-MH City Jib\4700 Eng Const Adm\12-6033-4700-C05-Street Details.dwg
Layout: Street and Paver Details
Plotted: Thursday, January 3, 2013, 10:54:31am

NOTE: REFER TO DRAWING SHEET C-1: McDAVID ASSOCIATES SURVEY FOR TOWN OF MOREHEAD CITY: USED AS BASE MAP FOR ARCHITECTURAL SITE PLAN.



LEGEND - SITE ELEMENTS

- (S) = SANITARY SEWER MANHOLE - EXISTING
- = EXISTING WATER VALVE
- = EXISTING STREET LIGHT
- = EXISTING DROP INLET
- C/OO = SANITARY SEWER CLEANOUT - EXISTING
- = NEW CONCRETE BOLLARD
- = EXIST. CONCRETE BOLLARD
- (ST) = STORM SEWER MANHOLE - EXISTING
- = EXIST. PAVERS
- = EXIST. WATER METER

NEW ELEMENTS

- = NEW PAVERS
- = SEAFOOD FESTIVAL UNDERGROUND ELECTRICAL SERVICE
- = ELECTRICAL HANDHOLE
- = NEW WATER METER

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CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

MK CHALK ARCHITECTURE, PA — REGISTERED ARCHITECTURAL CORPORATION — 52434 — MOREHEAD CITY, NC

MARGARET KELLUM CHALK — REGISTERED ARCHITECT — 11614 — NORTH CAROLINA — MOREHEAD CITY, NC

BURNETTE ARCHITECTURAL AND PLANNING — REGISTERED ARCHITECTURAL CORPORATION — CERT. NO. 60921 — NORTH CAROLINA — MOREHEAD CITY, NC

KENNETH W. BURNETTE — REGISTERED ARCHITECT — 3098 — JAN. 2013 — NORTH CAROLINA — MOREHEAD CITY, NC

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

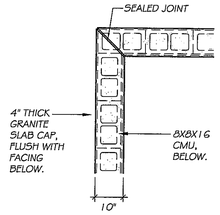
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

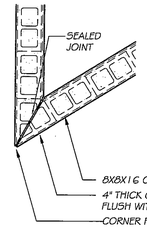
DATE: 03 JAN. 2013
CHECK BY: MKC
DRAWN BY: MKD & LNS
SCALE: 1:10

PHASE 1 ARCHITECTURAL SITE PLAN

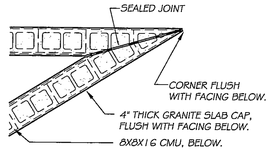
AS-100



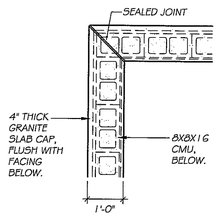
N. WEST
2 A101 TIER 3 CORNER
SCALE: 1/2"=1'-0"



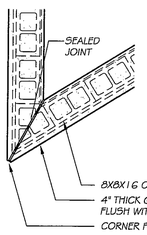
S. WEST
3 A101 TIER 3 CORNER
SCALE: 1/2"=1'-0"



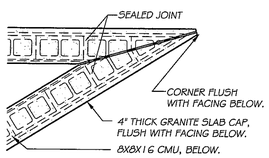
N. EAST
4 A101 TIER 3 CORNER
SCALE: 1/2"=1'-0"



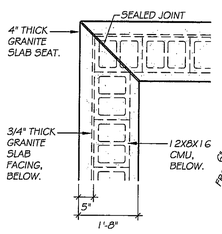
N. WEST
5 A101 TIER 2 CORNER
SCALE: 1/2"=1'-0"



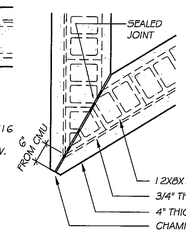
S. WEST
6 A101 TIER 2 CORNER
SCALE: 1/2"=1'-0"



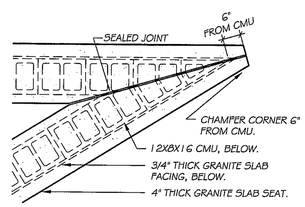
N. EAST
7 A101 TIER 2 CORNER
SCALE: 1/2"=1'-0"



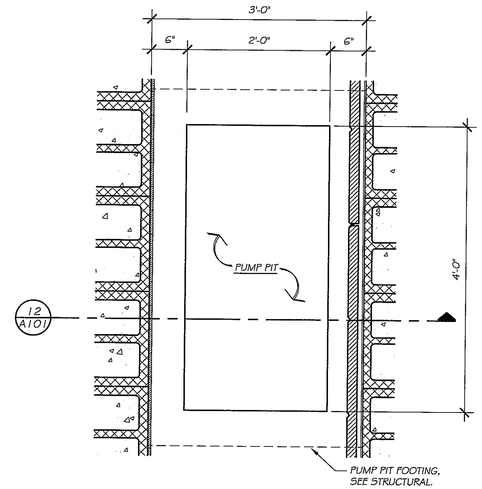
N. WEST
8 A101 TIER 1 CORNER
SCALE: 1/2"=1'-0"



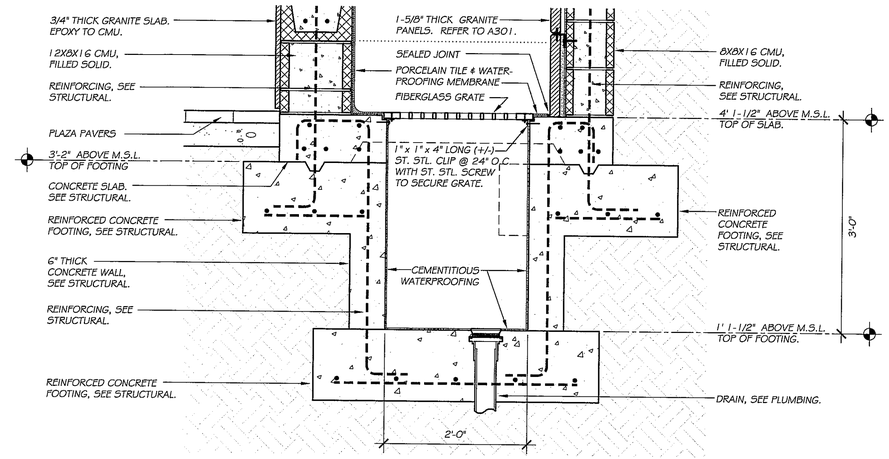
S. WEST
9 A101 TIER 1 CORNER
SCALE: 1/2"=1'-0"



N. EAST
10 A101 TIER 1 CORNER
SCALE: 1/2"=1'-0"



11 A101 PUMP PIT PLAN
SCALE: 1"=1'-0"



12 A101 SECTION THROUGH PUMP PIT
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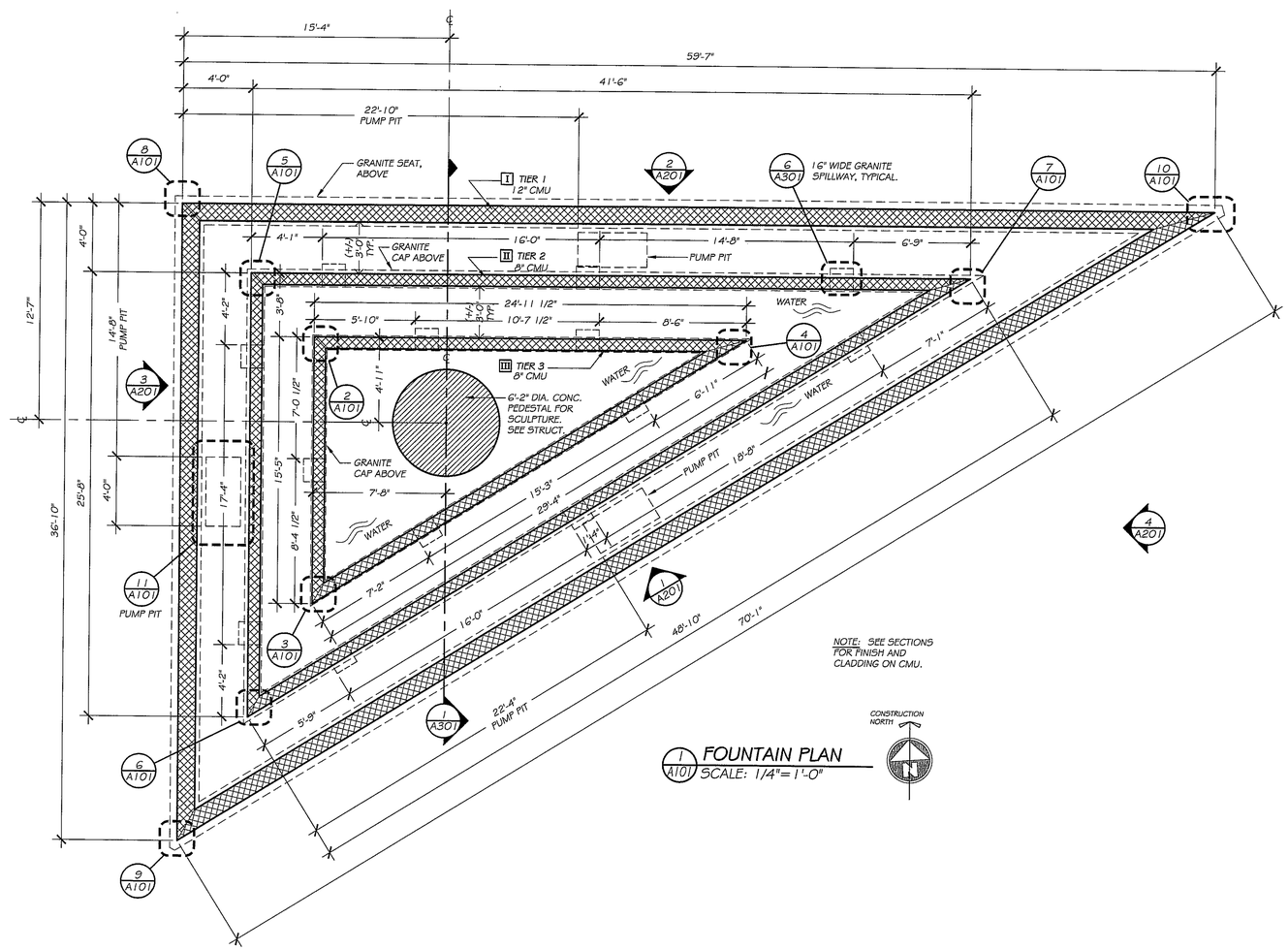

1 A101 FOUNTAIN PLAN
SCALE: 1/4"=1'-0"

MK CHALK ARCHITECTURE, PA
P.O. Box 622
Morehead City, NC 28557

CONSULTANTS:

BURNETTE ARCHITECTURE & PLANNING
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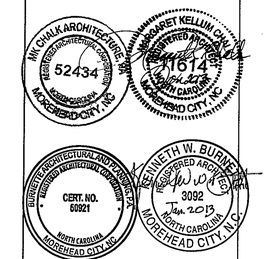
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE I

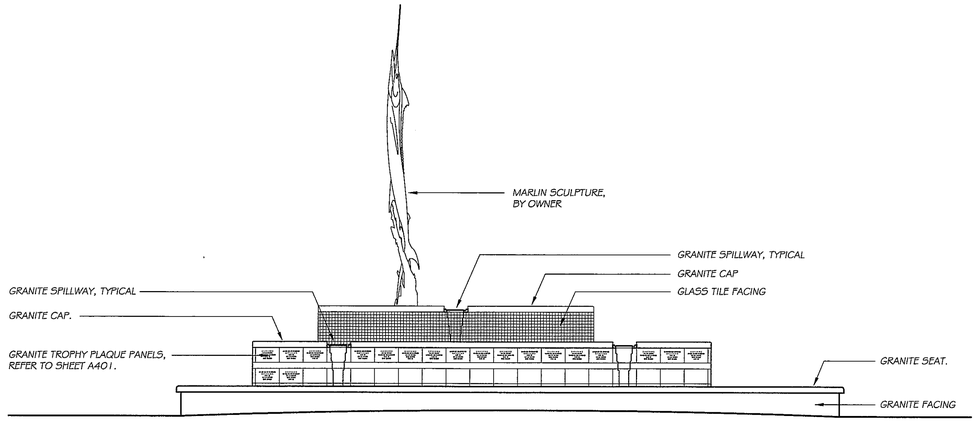
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

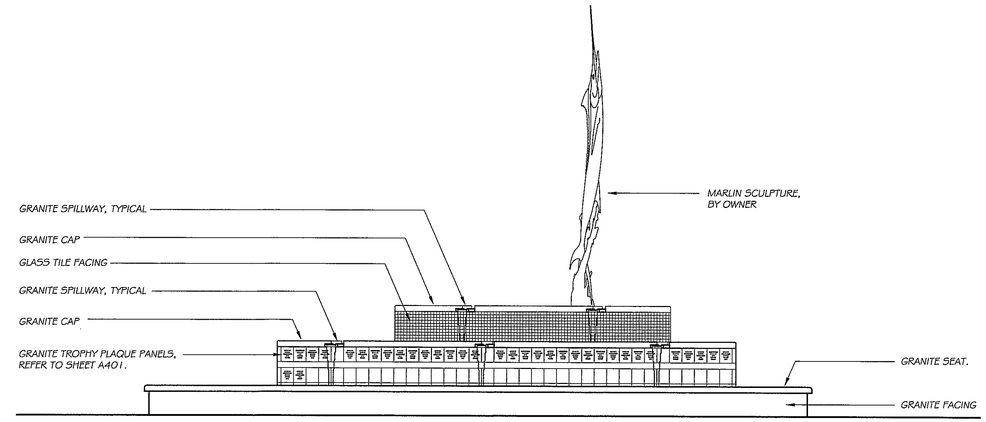
DATE: 3 JAN. 2013
CHECK BY: KWB
DRAWN BY: CTM
SCALE: AS INDICATED

FOUNTAIN PLAN

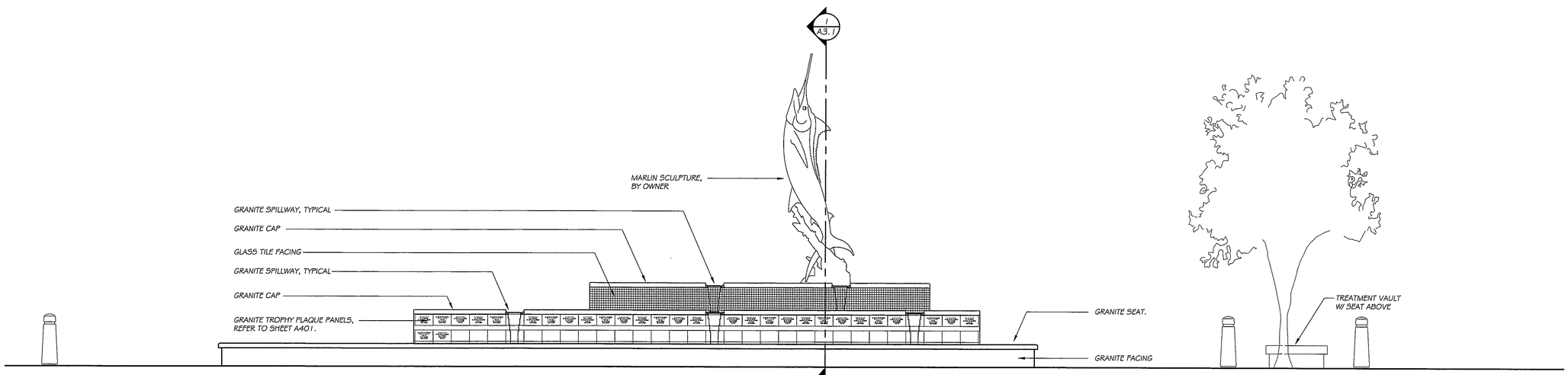
A-101



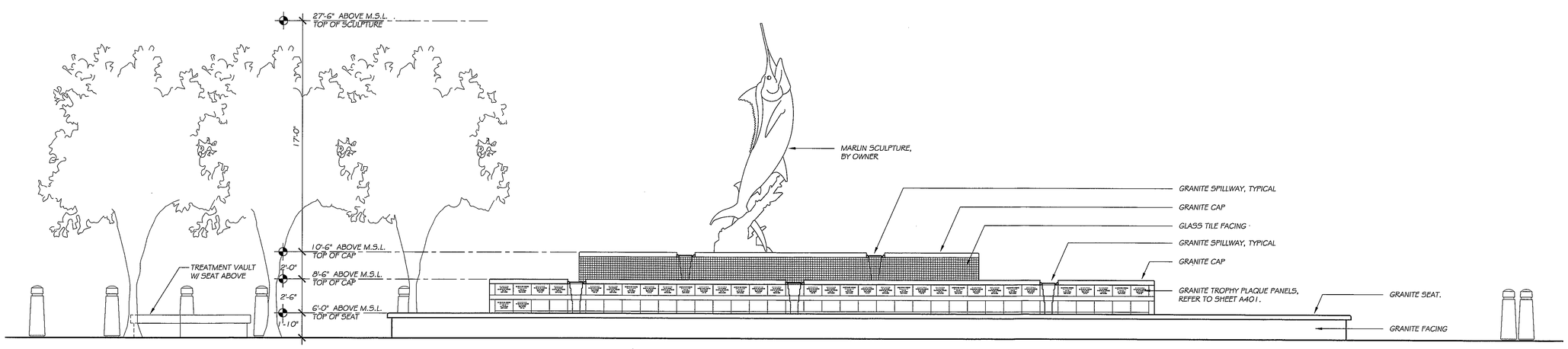
3 A201 WEST ELEVATION
SCALE: 1/4"=1'-0"



4 A201 EAST ELEVATION
SCALE: 1/4"=1'-0"



2 A201 NORTH ELEVATION
SCALE: 1/4"=1'-0"



1 A201 SOUTH ELEVATION
SCALE: 1/4"=1'-0"

MK CHALK ARCHITECTURE, PA
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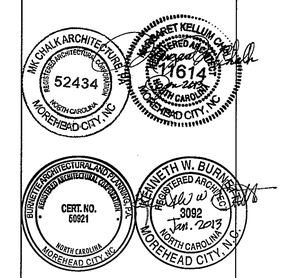
SEAL:



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PHASE I

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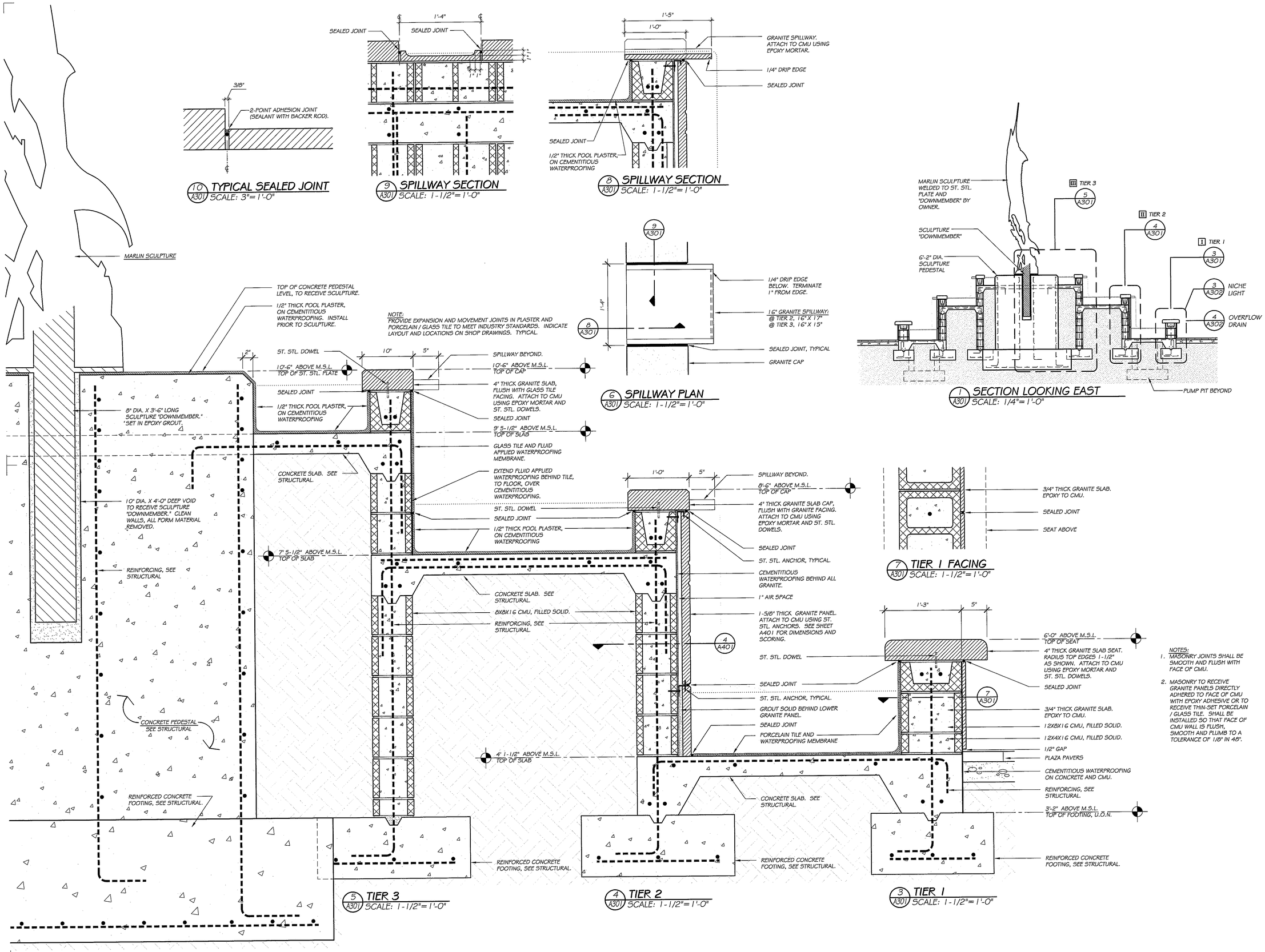
DATE: 3 JAN. 2013
CHECK BY: KWB
DRAWN BY: CTM
SCALE: AS INDICATED

FOUNTAIN
ELEVATIONS

A-201



NOTES:
1. MASONRY JOINTS SHALL BE SMOOTH AND FLUSH WITH FACE OF CMU.
2. MASONRY TO RECEIVE GRANITE PANELS DIRECTLY ADHERED TO FACE OF CMU WITH EPOXY ADHESIVE OR TO RECEIVE THIN-SET PORCELAIN / GLASS TILE. SHALL BE INSTALLED SO THAT FACE OF CMU WALL IS FLUSH, SMOOTH AND PLUMB TO A TOLERANCE OF 1/8" IN 48".

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WILMINGTON, NC

CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

MK CHALK ARCHITECTURE PA REGISTERED ARCHITECTURAL CORPORATION 52434 NORTH CAROLINA MOREHEAD CITY, NC

ROBERT KELLUM CHALK REGISTERED ARCHITECT 11614 NORTH CAROLINA MOREHEAD CITY, NC

BURNETTE ARCHITECTURAL AND PLANNING ASSOCIATE ARCHITECTURAL CORPORATION CERT. NO. 50921 NORTH CAROLINA MOREHEAD CITY, NC

KENNETH W. BURNETTE REGISTERED ARCHITECT 3092 Jan. 2013 NORTH CAROLINA MOREHEAD CITY, N.C.

REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE I

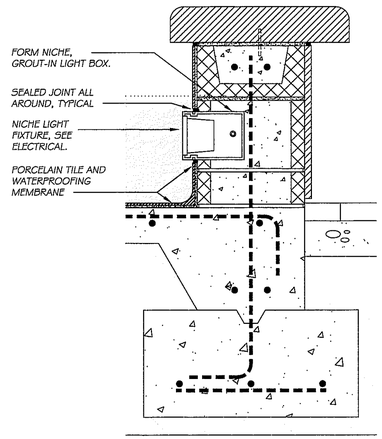
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

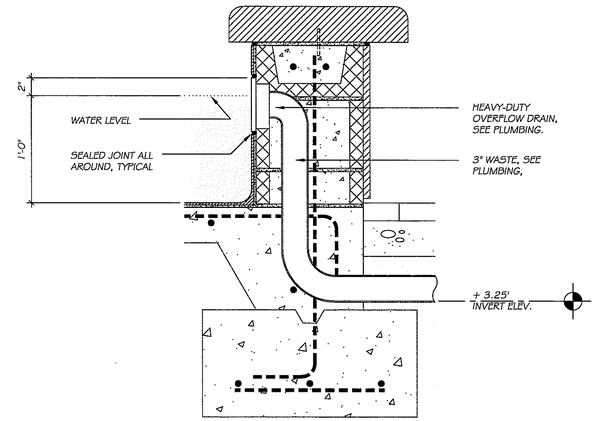
DATE: 3 JAN. 2013
CHECK BY: KWB
DRAWN BY: CTM
SCALE: AS INDICATED

FOUNTAIN SECTION

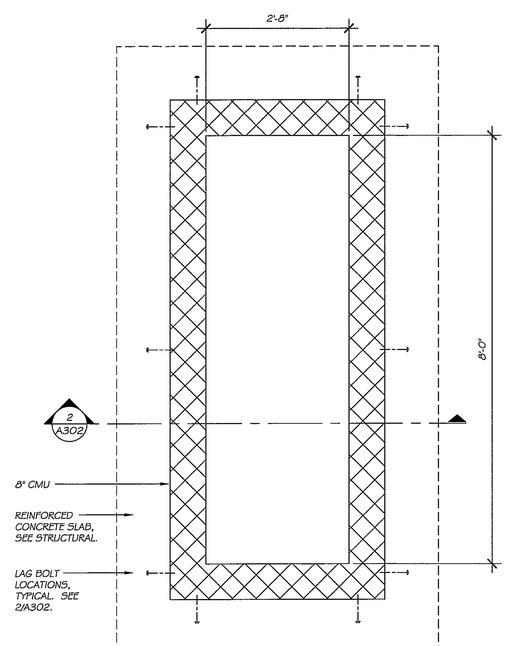
A-301



3 A302 TIER I NICHE LIGHT
SCALE: 1-1/2"=1'-0"

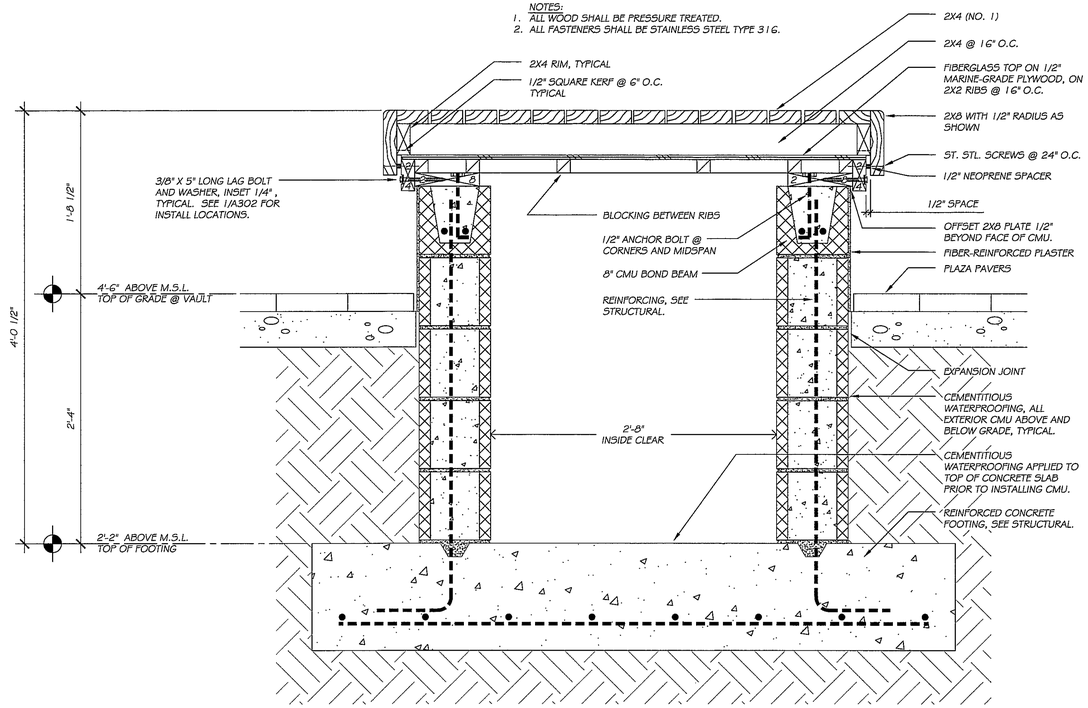


4 A302 TIER I OVERFLOW DRAIN
SCALE: 1-1/2"=1'-0"



1 A302 TREATMENT VAULT WITH SEAT ABOVE PLAN
SCALE: 3/4"=1'-0"

NOTES:
1. ALL WOOD SHALL BE PRESSURE TREATED.
2. ALL FASTENERS SHALL BE STAINLESS STEEL TYPE 316.



2 A302 SECTION THROUGH TREATMENT VAULT WITH SEAT ABOVE
SCALE: 1-1/2"=1'-0"

MK CHALK ARCHITECTURE, PA
P.O. Box 622
Morehead City, NC 28557

CONSULTANTS:

BURNETTE ARCHITECTURE & PLANNING
ASSOCIATE ARCHITECT

MEP ENGINEERING
STROUD ENGINEERING
L. MICHAEL STROUD, P.E.
GREENVILLE, NC &
MOREHEAD CITY, NC

ENGINEERING CONSULTANT
W.F. PARKER, P.E.
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MARINE STRUCTURAL & STRUCTURAL ENGINEERING
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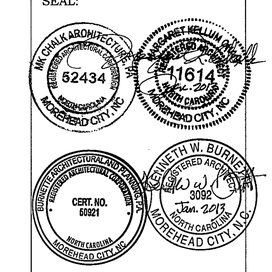
WILMINGTON, NC

CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:



REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE I

APPROVED BY OWNER DATE

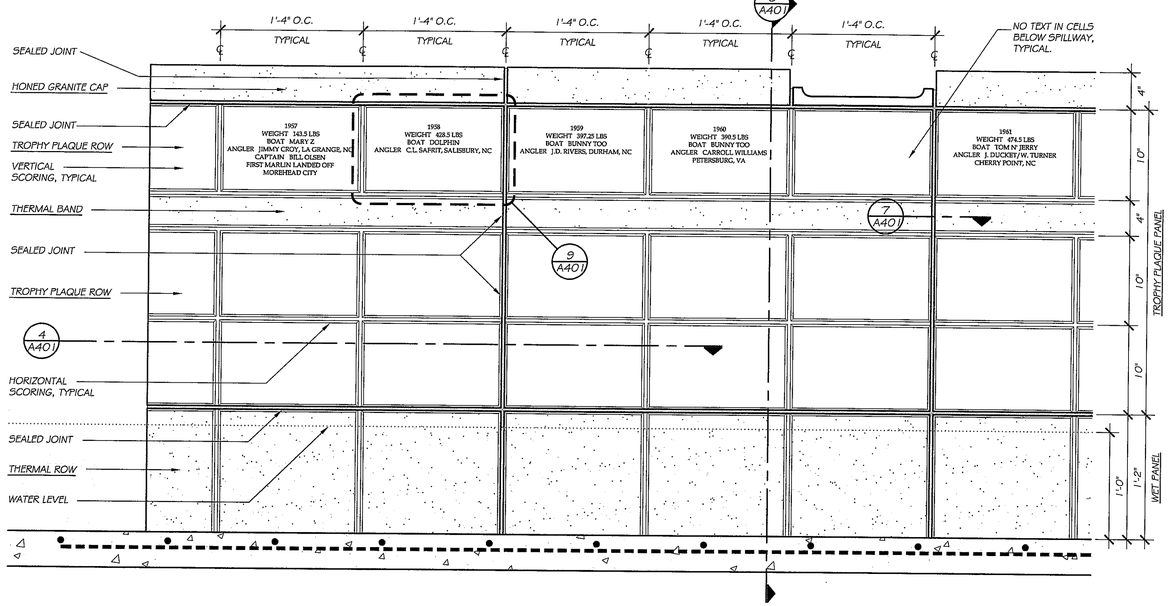
APPROVED BY OWNER DATE

DATE: 3 JAN. 2013
CHECK BY: KWB
DRAWN BY: CTM
SCALE: AS INDICATED

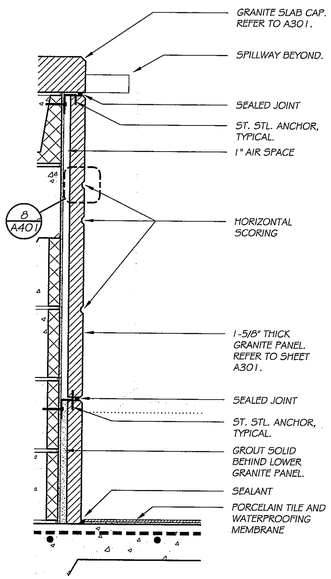
TREATMENT VAULT
WITH SEAT ABOVE

A-302

NOTE: ALIGN ALL GRANITE JOINTS WITH VERTICAL SCORING.

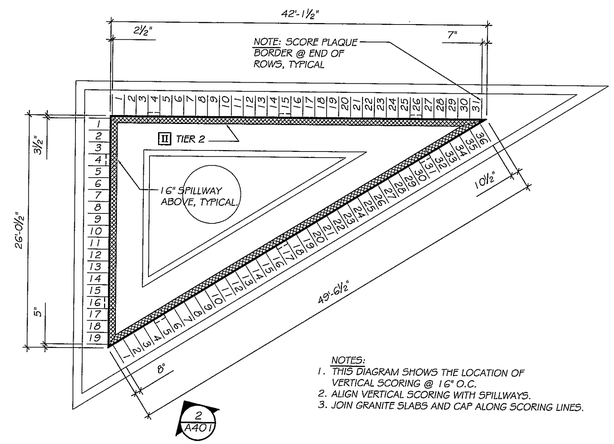


2 A401 TIER 2 ELEVATION
SCALE: 1-1/2"=1'-0"



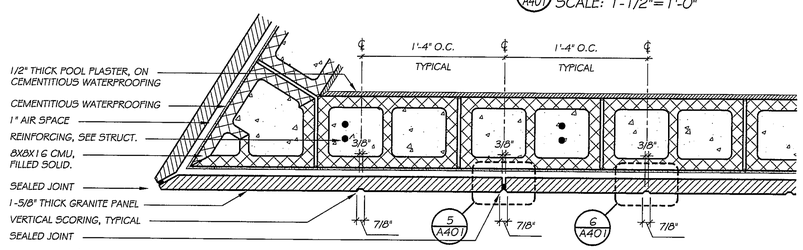
3 A401 SECTION THROUGH TIER 2
SCALE: 1-1/2"=1'-0"

NOTE: TEXT ENGRAVING SHALL BE BID ALTERNATE G-2

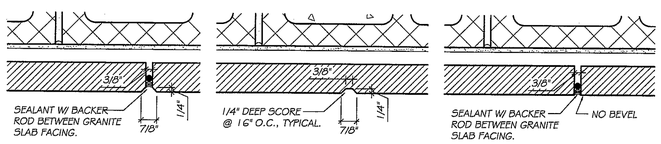


NOTES:
1. THIS DIAGRAM SHOWS THE LOCATION OF VERTICAL SCORING @ 16" O.C.
2. ALIGN VERTICAL SCORING WITH SPILLWAYS.
3. JOIN GRANITE SLABS AND CAP ALONG SCORING LINES.

2 A401 TIER 2 VERTICAL SCORING PLAN
SCALE: 1/8"=1'-0"



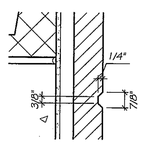
4 A401 SECTION THROUGH TIER 2
SCALE: 1-1/2"=1'-0"



5 A401 SEALED JOINT
SCALE: 3"=1'-0"

6 A401 VERTICAL SCORE
SCALE: 3"=1'-0"

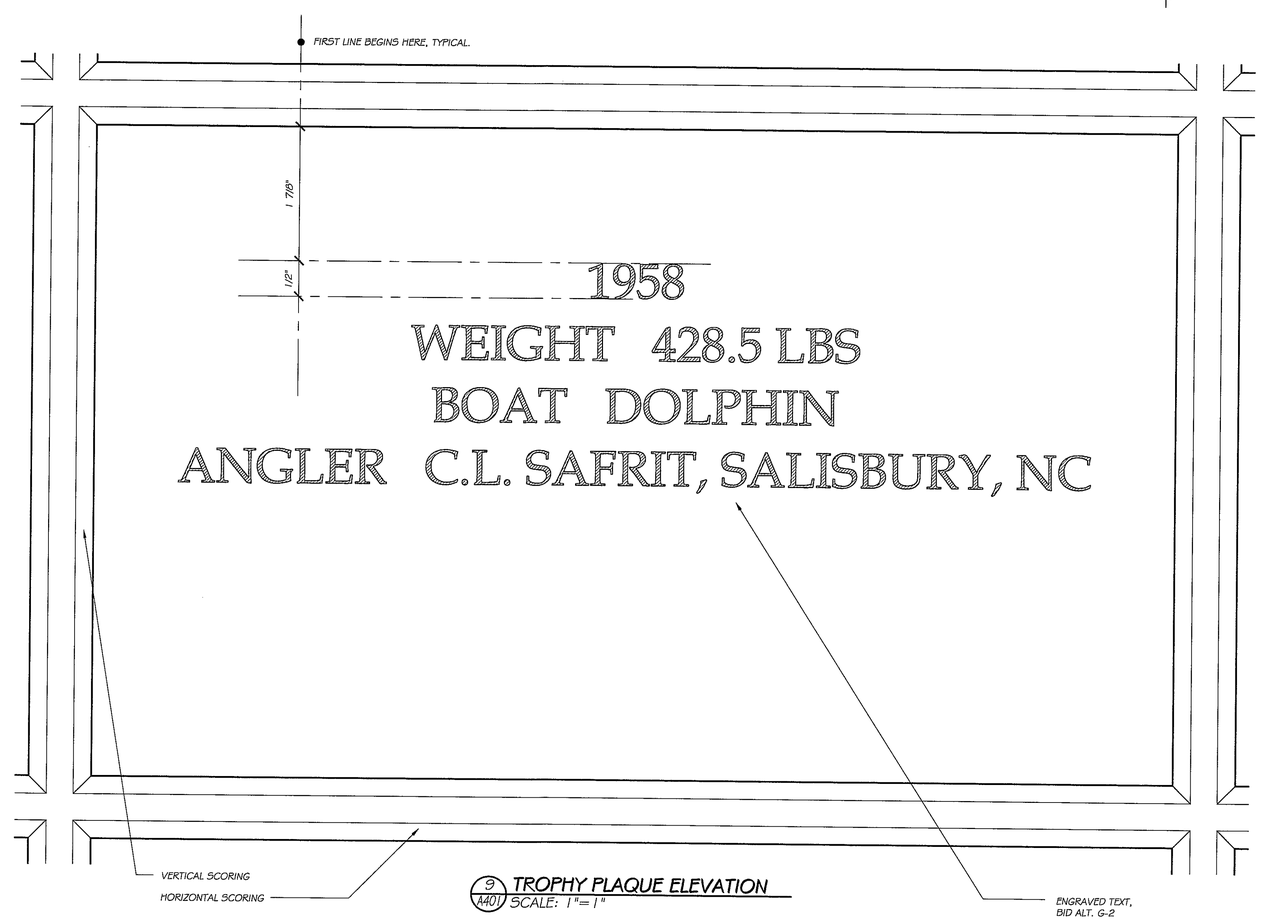
7 A401 VERTICAL SCORE @ BAND
SCALE: 3"=1'-0"



8 A401 HORIZONTAL SCORE
SCALE: 3"=1'-0"

TROPHY PLAQUE NOTES

1. A GRID SHALL BE SCORED INTO THE GRANITE PANEL FACINGS OF TIER 2, AS SHOWN.
2. REFER TO TIER 2 ELEVATION FOR VERTICAL AND HORIZONTAL SCORING LOCATIONS.
3. "PLAQUE" SHALL BE DEFINED AS THE 16" X 10" SPACE, WITHIN THE GRID, RESERVED FOR ENGRAVED TEXT.
4. PLAQUE TEXT FORMAT: (VERIFY WITH ARCHITECT)
   - A. FONT SHALL BE "BOOK ANTIQUA"
   - B. CHARACTER HEIGHT SHALL BE 1/2"
   - C. THE SPACE BETWEEN LINES SHALL BE 3/8"
   - D. THE SPACE WITHIN LINES, FOLLOWING A CATEGORY, SHALL BE 3-CHARACTERS IN LENGTH. EXAMPLE: WEIGHT_ _ _428.5_LBS.
   - E. CENTER TEXT HORIZONTALLY AND VERTICALLY.
   - F. LINE ORDER (TYPICAL):
     1. YEAR
     2. WEIGHT
     3. BOAT
     4. ANGLER AND / OR CAPTAIN
     5. ADDITIONAL INFORMATION (IF REQUESTED)



9 A401 TROPHY PLAQUE ELEVATION
SCALE: 1"=1"

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WILMINGTON, NC

CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

MK CHALK ARCHITECTURE PA REGISTERED ARCHITECTURAL CORPORATION 52434 NORTH CAROLINA MOREHEAD CITY, NC

MARGARET KELLUM CHALK REGISTERED ARCHITECT 11614 NORTH CAROLINA MOREHEAD CITY, NC

BURNETTE ARCHITECTURAL AND PLANNING PA REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50021 NORTH CAROLINA MOREHEAD CITY, NC

KENNETH W. BURNETTE REGISTERED ARCHITECT 3092 NORTH CAROLINA MOREHEAD CITY, NC

REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

PHASE I

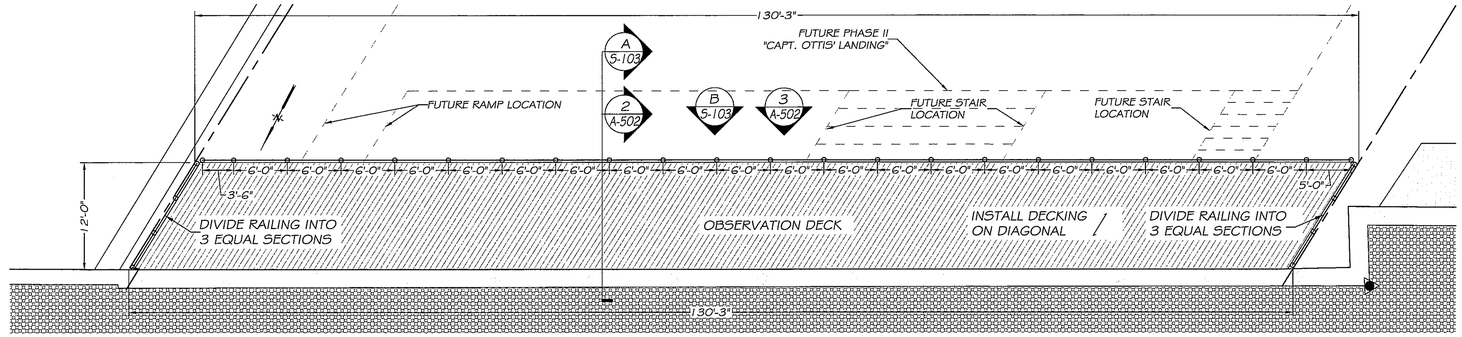
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

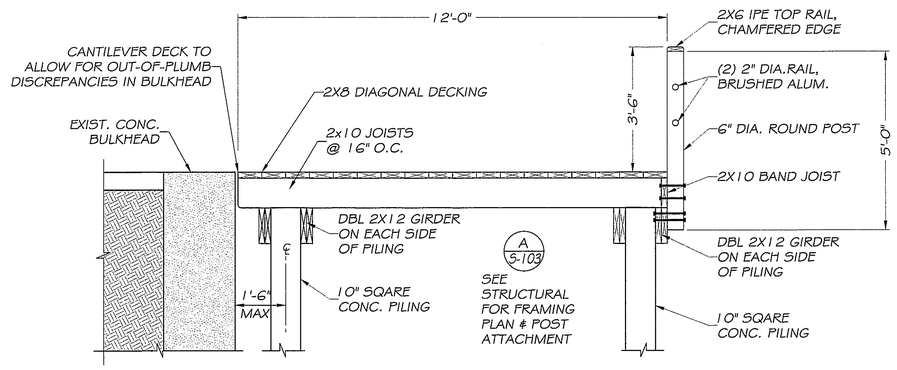
DATE: 3 JAN. 2013
CHECK BY: KWB
DRAWN BY: CTM
SCALE: AS INDICATED

TROPHY PLAQUE DETAILS

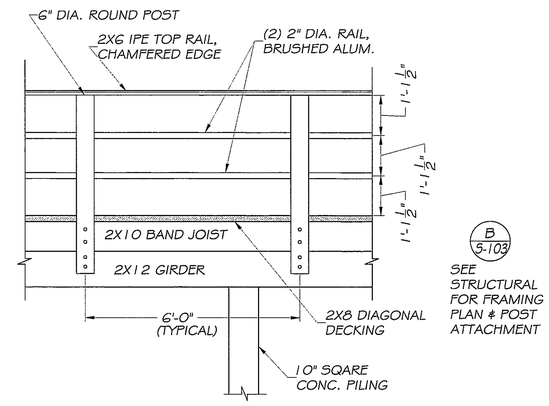
A-401



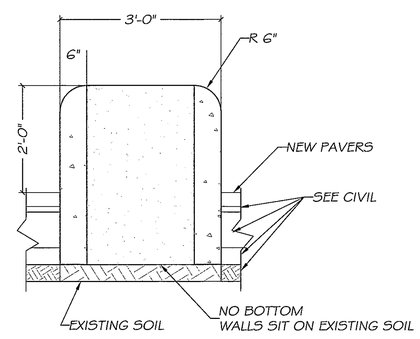
1 A-502 OBSERVATION DECK PLAN
SCALE: 1/8" = 1'-0"



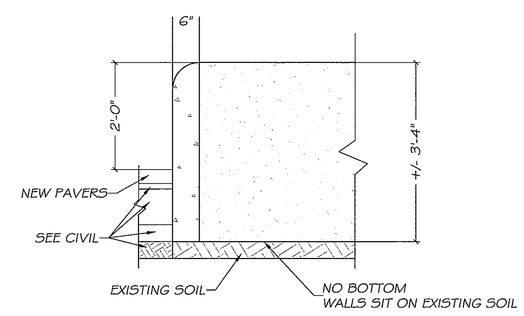
2 A-502 OBSERVATION DECK SECTION
SCALE: 1/2"= 1'-0"



4 A-502 OBSERVATION DECK ELEVATION
SCALE: 1/2"= 1'-0"



3 A-502 PLANTER SECTION
SCALE: 1/2"= 1'-0"



4 A-502 PLANTER SECTION
SCALE: 1/2"= 1'-0"

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WILMINGTON, NC

CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

PHASE I

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 04 JANUARY 2013
CHECK BY: MKC
DRAWN BY: LNS
SCALE: VARIES

OBSERVATION DECK, RAILING & PLANTER DETAILS

A-501

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: "JIB" PROPERTY WATERFRONT AMENITY

LOCATION: MOREHEAD CITY, NC

OWNER: TOWN OF MOREHEAD CITY, NC

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: NEAL W. ANDREW, PE.

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF THE SPECIAL INSPECTION COORDINATOR AND THE IDENTITY OF OTHER APPROVED AGENCIES TO BE RETAINED FOR CONDUCTION OF THESE INSPECTIONS AND TESTS. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASS THE FOLLOWING DISCIPLINES:

- ☒ STRUCTURAL
- ☐ MECHANICAL/ELECTRICAL/PLUMBING
- ☐ ARCHITECTURAL
- ☐ OTHER: _____

THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

INTERIM REPORT FREQUENCY: OR ☐ PER ATTACHED SCHEDULE.

PREPARED BY:

NEAL W. ANDREW, PE
(type or print name)

Signature Date 12/31/12

NORTH CAROLINA PROFESSIONAL SEAL 23591 ENGINEER NEAL W. ANDREW

OWNERS AUTHORIZATION:

Signature Date

BUILDING OFFICIAL'S ACCEPTANCE:

Signature Date

SCHEDULE OF INSPECTION AND TESTING AGENCIES

THIS STATEMENT OF SPECIAL INSPECTIONS / QUALITY ASSURANCE PLAN INCLUDES THE FOLLOWING BUILDING SYSTEMS:

- ☒ SOILS AND FOUNDATIONS
- ☒ CAST-IN-PLACE CONCRETE
- ☒ PRECAST CONCRETE
- ☒ MASONRY
- ☐ STRUCTURAL STEEL
- ☐ COLD-FORMED STEEL FRAMING
- ☐ SPRAY FIRE RESISTANT MATERIAL
- ☒ WOOD CONSTRUCTION
- ☐ EXTERIOR INSULATION AND FINISH SYSTEM
- ☐ MECHANICAL & ELECTRICAL SYSTEMS
- ☐ ARCHITECTURAL SYSTEMS
- ☐ SPECIAL CASES

SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS, TELEPHONE, E-MAIL
1. SPECIAL INSPECTION COORDINATOR	ANDREW CONSULTING ENGINEERS, P.C.	3811 PEACHTREE AVENUE SUITE 300 WILMINGTON, NC 28403 (910) 202-5555
2. INSPECTOR	TBD	
3. INSPECTOR		
4. TESTING AGENCY	TBD	
5. TESTING AGENCY		
6. OTHER		

NOTE: THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL, PRIOR TO COMMENCING WORK.

QUALITY ASSURANCE PLAN

QUALITY ASSURANCE FOR SEISMIC RESISTANCE

SEISMIC DESIGN CATEGORY: N/A

QUALITY ASSURANCE PLAN REQUIRED (Y/N): YES

STRUCTURAL OBSERVATIONS TO BE PERFORMED:

REQUIRED FREQUENCY AND DISTRIBUTION OF STRUCTURAL OBSERVATION REPORTS:

1. ACE, PC RECOMMENDS PERIODIC CONSTRUCTION OBSERVATION REPORTS TO BE PREPARED BY THE CONSTRUCTION MATERIAL TESTING COMPANY AT THE COMPLETION OF CONSTRUCTION OBSERVATIONS AND FORWARDED TO GENERAL CONTRACTOR, OWNER, AND STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER.

STATEMENT OF RESPONSIBILITY:

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF PILES SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. (CONTRACTOR TO SEE APPLICABLE CODE FOR ADDITIONAL INFORMATION.)

QUALITY ASSURANCE FOR WIND REQUIREMENTS – N/A

STRUCTURAL OBSERVATIONS TO BE PERFORMED:

1. ACE, PC RECOMMENDS A CONSTRUCTION OBSERVATION TO BE PERFORMED BY THE CONSTRUCTION MATERIAL TESTING COMPANY TO OBSERVE PILE DEPTH AND ULTIMATE BEARING STRENGTH.

REQUIRED FREQUENCY AND DISTRIBUTION OF STRUCTURAL OBSERVATION REPORTS:

1. ACE, PC RECOMMENDS CONSTRUCTION OBSERVATION REPORTS TO BE PREPARED BY THE CONSTRUCTION MATERIAL TESTING COMPANY AT THE COMPLETION OF CONSTRUCTION OBSERVATIONS AND FORWARDED TO GENERAL CONTRACTOR, OWNER, AND THE STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER.

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES AR SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED IF REQUESTED.

KEY FOR MINIMUM QUALIFICATIONS OF INSPECTION AGENTS:

WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING A STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.

PE/SE STRUCTURAL ENGINEER – A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES

PE/GE GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS

EIT ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

AWS-CWI CERTIFIED WELDING INSPECTOR

AWS/AISC-SSI CERTIED STRUCTURAL STEEL INSPECTOR

AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION

ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II OR III.

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION

ICC-SMSI STRUCTURAL MASONRY SPECIAL INSPECTOR

ICC-SWSI STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR

ICC-SFSI SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR

ICC-PCSI PRESTRESSED CONCRETE SPECIAL INSPECTOR

ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

NICET-CT CONCRETE TECHNICIAN – LEVELS I, II, III, & IV

NICET-ST SOILS TECHNICIAN – LEVELS I, II, III, & IV

NICET-GET GEOTECHNICAL ENGINEERING TECHNICIAN – LEVELS I, II, III, & IV

OTHER

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES AR SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED IF REQUESTED.

KEY FOR MINIMUM QUALIFICATIONS OF INSPECTION AGENTS:

WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING A STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.

PE/SE STRUCTURAL ENGINEER – A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES

PE/GE GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS

EIT ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION

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ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II OR III.

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ICC-SWSI STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR

ICC-SFSI SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR

ICC-PCSI PRESTRESSED CONCRETE SPECIAL INSPECTOR

ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

NICET-CT CONCRETE TECHNICIAN – LEVELS I, II, III, & IV

NICET-ST SOILS TECHNICIAN – LEVELS I, II, III, & IV

NICET-GET GEOTECHNICAL ENGINEERING TECHNICIAN – LEVELS I, II, III, & IV

OTHER

SOILS AND FOUNDATIONS

ITEM	AGENCY # (QUALIF.)	SCOPE
1. SHALLOW FOUNDATIONS	N/A	N/A
2. CONTROLLED STRUCTURAL FILL	N/A	N/A
3. DEEP FOUNDATIONS – PILES	PE	IDENTIFY FINAL PILE TIP ELEVATION, CUT OFF ELEVATION, AND PDA TEST RESULTS. CONTINUOUS OBSERVATION OF PDA TEST PILES CONTINUOUS OBSERVATION OF PILE INSTALLATION
4. LOAD TESTING	N/A	N/A
5. OTHER:	N/A	N/A

PRECAST CONCRETE

ITEM	AGENCY # (QUALIF.)	SCOPE
1. PLANT CERTIFICATION/ QUALITY CONTROL PROCEDURES. ☐ FABRICATOR EXEMPT	ACI-CCI ICC-RCSI	REVIEW PLANT OPERATIONS AND QUALITY CONTROL PROCEDURES. FABRICATOR IS EXEMPT IF THEY CAN PROVIDE EVIDENCE THEY ARE PCI APPROVED.
2. MIX DESIGN	ACI-CCI ICC-RCSI	INSPECT CONCRETE BATCHING OPERATIONS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. FABRICATOR MAY BE EXEMPT.
3. MATERIAL CERTIFICATION		
4. REINFORCEMENT INSTALLATION	ACI-CCI ICC-RCSI	INSPECT SIZE, SPACING, POSITION AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. FABRICATOR MAY BE EXEMPT.
5. PRESTRESS OPERATIONS	ICC-PCSI	INSPECT PLACEMENT, STRESSING, GROUTING AND PROTECTION OF PRESTRESSING TENDONS FABRICATOR MAY BE EXEMPT.
6. CONNECTIONS/ EMBEDDED ITEMS		
7. FORMWORK GEOMETRY		
8. CONCRETE PLACEMENT	ACI-CCI ICC-RCSI	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED. FABRICATOR MAY BE EXEMPT.
9. SAMPLING AND TESTING OF CONCRETE	ACI-CFTT ACI-STT	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173), AND TEMPERATURE (ASTM C1064). FABRICATOR MAY BE EXEMPT.
10. CURING AND PROTECTION	ACI-CCI ICC-RCSI	INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES. FABRICATOR MAY BE EXEMPT.
11. ERECTED PRECAST ELEMENTS	AWS-CWI PE/SE AWS/AISC-SSI ICC-SWSI	PERIODICALLY INSPECT ERECTION OF PRECAST CONCRETE INCLUDING MEMBER CONFIGURATION, CONNECTIONS, WELDING AND GROUTING.
12. OTHER:		

CAST-IN-PLACE CONCRETE

ITEM	AGENCY # (QUALIF.)	SCOPE
1. MIX DESIGN	ACI-CCI ACI-CFTT ICC-RCSI NICET-CT	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
2. MATERIAL CERTIFICATION	N/A	N/A
3. REINFORCEMENT INSTALLATION	ACI-CCI ICC-RCSI	INSPECT SIZE, SPACING, COVER, POSITIONING, AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.
4. POST-TENSIONING OPERATIONS	N/A	N/A
5. WELDING OF REINFORCING	N/A	N/A
6. ANCHOR RODS	N/A	N/A
7. CONCRETE PLACEMENT	ACI-CCI ICC-RCSI	CONTINUOUSLY INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
8. SAMPLING AND TESTING OF CONCRETE	ACI-CFTT ACI-STT ACI-LTT	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064)
9. CURING AND PROTECTION	ACI-CCI ICC-RCSI	INSPECT CURING, COLD WEATHER PROTECTION, AND HOT WEATHER PROTECTION PROCEDURES.
10. OTHER:	N/A	N/A

WOOD CONSTRUCTION

ITEM	AGENCY # (QUALIF.)	SCOPE
1. FABRICATOR CERTIFICATION/ QUALITY CONTROL PROCEDURES ☐ FABRICATOR EXEMPT		
2. MATERIAL GRADING	EIT	INSPECT FOR CORRECT SPECIES AND MATERIAL GRADE.
3. CONNECTIONS	EIT	INSPECT FOR CORRECT BOLT TYPE AND CONFIGURATION.
4. FRAMING AND DETAILS	EIT	INSPECT FOR CORRECT LUMBER SIZES AND CONFIGURATION.
5. DIAPHRAGMS AND SHEARWALLS	N/A	N/A
6. PREFABRICATED WOOD TRUSSES	N/A	N/A
7. PERMANENT TRUSS BRACING	N/A	N/A
8. OTHER:	N/A	N/A

QUALITY ASSURANCE PLAN (WIND & SEISMIC)

OWNER: TOWN OF MOREHEAD CITY, NC

LOCATION: MOREHEAD CITY, NORTH CAROLINA

PREPARED BY: ANDREW CONSULTING ENGINEERS, P.C. (ACE, PC)

NORTH CAROLINA BUILDING CODE 2009 EDITION

DESIGN CATEGORY = B

BUILDING CATEGORY = N/A

SPECIAL INSPECTION & STRUCTURAL OBSERVATION REQUIREMENTS

CODE	ITEM	PE	AGENCY OR TESTING LAB CONTINUOUS	AGENCY OR TESTING LAB PERIODIC	ACTION	ATTACHED
1704	SPECIAL INSPECTION REQUIREMENTS	X			PREPARED	ATTACHED
1704.2.2	FABRICATOR TO SUBMIT PROCEDURES			X	REQUIRED	
	PERIODIC AUDITING			X	REQUIRED	
	SUBMIT CERTIFICATION OF COMPLIANCE AT COMPLETION			X	REQUIRED	
1704.3	STEEL MATERIAL VERIFICATION			X	RECOMMENDED	
	BEARING TYPE BOLTS			X	RECOMMENDED	
	FIELD WELDING **		X		RECOMMENDED	
	SINGLE PASS < 5/16"			X	RECOMMENDED	
	FLOOR/ROOF WELDING			X	RECOMMENDED	
	REINFORCING STEEL		X		RECOMMENDED	
1704.4	ANCHOR BOLTS		X		RECOMMENDED	
	SAMPLE FRESH CONCRETE		X		RECOMMENDED	
1704.7	SOILS – FILL PLACEMENT		X		RECOMMENDED	
	SOILS – DENSITY		X		RECOMMENDED	
1704.5.1	MASONRY GROUT PLACEMENT		X		RECOMMENDED	
	MASONRY GROUT SPECIMENS		X		RECOMMENDED	
1705.2	QUALITY ASSURANCE PLAN – SEISMIC	X			PREPARED	ATTACHED
1706.1	QUALITY ASSURANCE PLAN – WIND (WIND > 110 mph)	X			PREPARED	ATTACHED
1704.8 1810.3	PRECAST CONCRETE PILES		X		REQUIRED	

ONLY ITEM REQUIRING SPECIAL INSPECTIONS IS PRECAST CONCRETE PILING FABRICATION AND INSTALLATION. ALL OTHER SCOPES LISTED ARE RECOMMENDED QUALITY ASSURANCE ITEMS ONLY AND DO NOT REQUIRE SPECIAL INSPECTIONS.

MASONRY

REQUIRED INSPECTION LEVEL: ☒ 1 ☐ 2

ITEM	AGENCY # (QUALIF.)	SCOPE
1. MATERIAL CERTIFICATION		
2. MIXING OF MORTAR AND GROUT	ICC-SMSI	INSPECT PROPORTIONING, MIXING, AND RETEMPERING OF MORTAR AND GROUT.
3. INSTALLATION OF MASONRY	ICC-SMSI	INSPECT SIZE, LAYOUT, BONDING, AND PLACEMENT OF MASONRY UNITS.
4. MORTAR JOINTS	ICC-SMSI	INSPECT CONSTRUCTION OF MORTAR JOINTS INCLUDING TOOLING AND FILLING OF HEAD JOINTS.
5. REINFORCMENT INSTALLATION	ICC-SMSI	PERIODICALLY INSPECT PLACEMENT, POSITIONING, AND LAPPING OF REINFORCING STEEL.
6. PRE STRESSED MASONRY	N/A	
7. GROUTING OPERATIONS	ICC-SMSI	CONTINUOUSLY INSPECT PLACEMENT AND CONSOLIDATION OF GROUT. INSPECT MASONRY CLEAN-OUTS FOR HIGH-LIFT GROUTING.
8. WEATHER PROTECTION	ICC-SMSI	INSPECT COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES. VERIFY THAT WALL CAVITIES ARE PROTECTED AGAINST PRECIPITATION.
9. EVALUATION OF MASONRY STRENGTH	ICC-SMSI	TEST COMPRESSIVE STRENGTH OF MORTAR AND GROUT CUBE SAMPLES (ASTM C780) TEST COMPRESSIVE STRENGTH OF MASONRY PRISMS (ASTM C1314)
10. ANCHORS AND TIES	ICC-SMSI	INSPECT SIZE, LOCATION, SPACING, AND EMBEDMENT OF DOWELS, ANCHORS, AND TIES.
11. OTHER:		

STRUCTURAL NOTES

GENERAL:

1. THESE STRUCTURAL NOTES ARE AN INTEGRAL PART OF THE STRUCTURAL DRAWINGS AND ARE TO BE USED IN CONJUNCTION WITH THE JOB SPECIFICATIONS. WHEN THERE ARE NO SPECIFICATIONS IN ADDITION TO THESE NOTES THE NOTES SHALL GOVERN. WHEN THERE IS A SPECIFICATION IN ADDITION TO THE NOTES THE MORE STRINGENT OF THE TWO SHALL GOVERN.
2. BUILDING CODE: 2012 NC BUILDING CODE (2009 IBC WITH NC AMENDMENTS)
3. CONTRACTOR VERIFY ALL DIMENSIONS AND DETAILS AT JOB SITE.
4. U.N.O. MEANS "UNLESS NOTED OTHERWISE".
5. ALL SPECIFICATIONS REFER TO LATEST EDITION.
6. ALL WORK TO COMPLY WITH NC STATE BUILDING CODE LATEST EDITION.
7. STRUCTURAL FRAME TO BE BRACED UNTIL ERECTION IS COMPLETE.

DESIGN LOADS:

1. DESIGN LIVE LOADS: OBSERVATION PLATFORM 100 PSF
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND DETAILS AT JOB SITE.
3. U.N.O. MEANS "UNLESS NOTED OTHERWISE".
4. ALL SPECIFICATIONS REFER TO LATEST EDITION.
5. CONSTRUCTION LAYOUT SHALL BE BY THE CONTRACTOR FROM BENCH MARKS AND BASE LINES ESTABLISHED BY THE CONTRACTOR.

SOIL BEARING CAPACITIES:

FIELD TEST: 2,000 PSF (SEE ECS REPORT NO. 22.18246)
PRESUMPTIVE BEARING CAPACITY: N/A
PILE SIZE, TYPE, AND CAPACITY: SEE DRAWINGS

GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE THIS PROJECT WITH ALL ADJACENT CONSTRUCTION PROJECTS AS REQUIRED.

ENVIRONMENTAL CONSIDERATIONS:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT ITS OPERATIONS IN SUCH A MANNER TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE SOUND FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SOUND. HE SHALL NOT RETURN DIRECTLY TO THE SOUND ANY WATER WHICH CAUSE THE SOUND OR OCEAN TO BECOME POLLUTED WITH SILT, CEMENT, OIL, OR OTHER IMPURITIES.
2. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL. NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
3. CONTRACTOR TO INSTALL SEDIMENT CURTAIN AS SPECIFIED ON CIVIL DRAWINGS, IF APPLICABLE.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL BOLTS: A307 UNLESS NOTED OTHERWISE.
2. WELDING ELECTRODES – E-70 SERIES.
3. ALL STRUCTURAL STEEL AND ACCESSORIES TO BE H.D. GALV. TO MEET ASTM A153 AND A123.
4. ALL OTHER STRUCTURAL STEEL, BOLTS AND FITTINGS HOT DIPPED GALV. AFTER FABRICATION PER ASTM A153.

TIMBER AND MISCELLANEOUS:

1. OBSERVATION DOCK MATERIAL

	S.Y.PINE GRADE	SURFACE	MOISTURE CONTENT	AWPA STD AND CCA RETENTION
POSTS	NO. 2	S4S	ADAT/KDAT19	UC4B(0.24)
DECKING	NO. 2	S4S	ADAT/KDAT19	UC4B(0.24)
JOISTS	NO. 2	S4S/S2E	S-DRY 19	C2/C18(2.5)
GIRDERS	NO. 2 DENSE	S2E/ ROUGH	S-DRY 19	C2/C18(2.5)
CROSS BRACE	MARINE NO. 1/NO.2	ROUGH	S-DRY 19	C2/C18(2.5)

2. ALL HARDWARE AND NAILS SHALL BE HOT DIP GALVANIZED (ASTM 153) UNLESS NOTED OTHERWISE. NAIL SIZES AND NUMBER ARE NOT SHOWN. USE ACCORDING TO GOOD CARPENTRY PRACTICE. USE COMMON NAILS ONLY.
3. PROVIDE TREATMENT CERTIFICATES ON ALL LUMBER BY AN INDEPENDENT 3RD PARTY INSPECTOR AWPB OR SPIB APPROVED AND SUBJECT TO APPROVAL BY ENGINEER.
4. ALL WOOD MATERIALS SHALL HAVE FIELD CUTS TREATED WITH KOPPERS #50.
5. COUNTER SINK BOLT HEADS WHERE EXPOSED ON OUTBOARD FACE OF DECK.
6. USE O.G. WASHER OR 1/4" HEAVY PLATE WASHERS UNDER ALL BOLTS AND NUTS.
7. SCREW DECK TO JOISTS WITH STAINLESS STEEL SCREWS.

CONCRETE PILING: SEE PLAN FOR LENGTH

1. PRESTRESSED PRECAST CONCRETE PILING SHALL BE 10x10 AND MEET REQUIREMENTS OF ACI 543 AND ACI 318 STANDARDS.
2. DRIVE PILING TO 45 TON CAPACITY.
3. PILES WILL BE TESTED USING A PILE DRIVING ANALYZER (PDA) TO 90 TONS ULTIMATE COMPRESSION LOAD.

CONCRETE

1. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   FOOTINGS, PEDESTALS & SLABS – 4000 PSI
   PRECAST PILING – 6000 PSI.
2. REINFORCING STEEL ASTM A615, GRADE 60.
3. CLEAR CONCRETE COVER ON REINF
   A. FOOTINGS = 3".
   B. SLAB ON GRADE = 1 1/2".
   C. PEDESTAL = 2".
   D. PRECAST PILING = 2".
4. DOWELS AND CONTINUOUS REINF. SHALL HAVE MIN. LAP OF 40 BAR DIAMETERS DIAMETERS OR 16" MIN.
5. PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT.
6. REINF. CONCRETE WORK SHALL CONFORM TO LATEST EDITION OF ACI CODE 301.
7. PROVIDE CLASS B BAR SUPPORTS. (PLASTIC)
8. MAX. W/C RATIO = 0.45 PROVIDE CORROSION INHIBITOR (DCI 2.0 GALLON/CY) (3.5 GALLON/CY FOR PILING AND PILE CAPS)
9. CHAMFER ALL EXPOSED EDGES 1" x 45 DEGREES.

12079

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GOLDSBORO, NC

SEAL:

NORTH CAROLINA PROFESSIONAL SEAL 23591 ENGINEER NEAL W. ANDREW 12/31/12

REVISIONS:

"JIB" PROPERTY WATERFRONT AMENITY
Morehead City, NC 28557

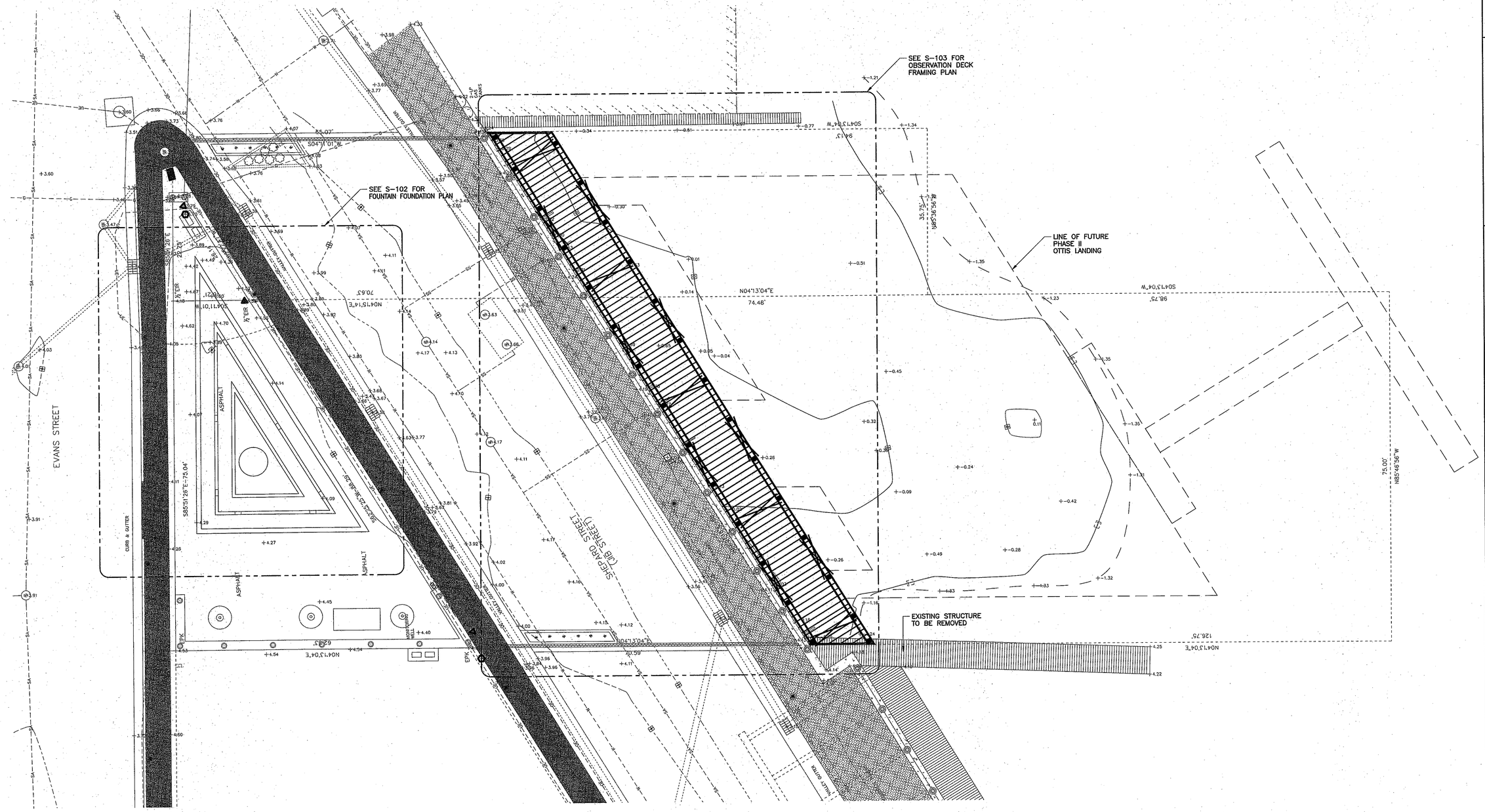
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 12 DECEMBER 2012
CHECK BY: NWA
DRAWN BY: JMR & RDW
SCALE: AS NOTED

PHASE 1 QUALITY ASSURANCE PLAN & STRUCTURAL NOTES

S-001



N

OVERALL JIB WATERFRONT AMENITY

1" = 10'-0"

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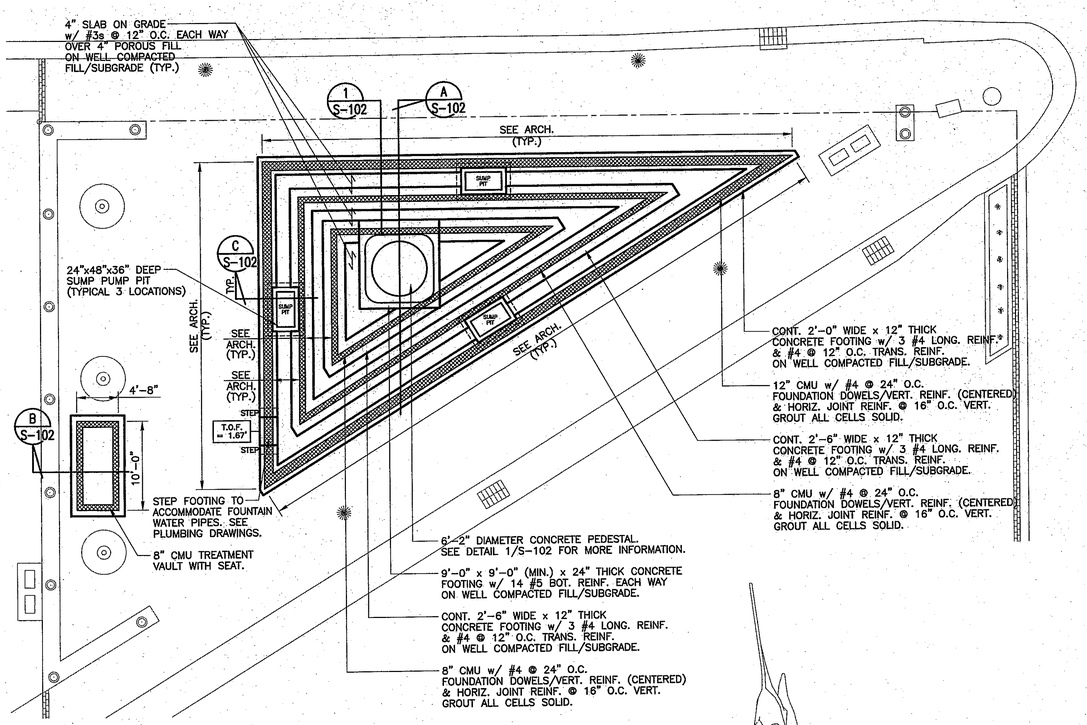
PHASE 1
OVERALL JIB
WATERFRONT
AMENITY PLAN

S-101

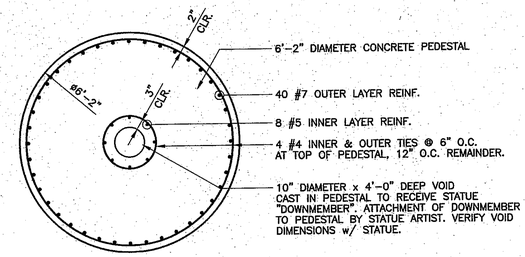


FOUNTAIN FOUNDATION PLAN

1/8 = 1'-0"

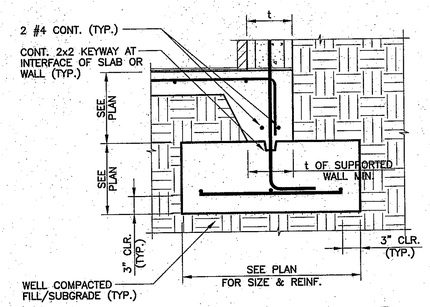
NOTES:

1. ALL PROVIDED ELEVATIONS ARE RELATIVE TO NAVD88 MEAN SEA LEVEL.
2. TOP OF FOOTING ELEVATION (T.O.F.) = 3.17' UNLESS NOTED OTHERWISE.



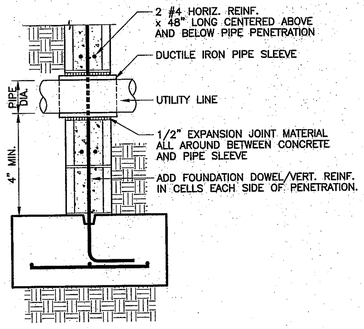
STATUE PEDESTAL DETAIL (1 / S-102)

1/2" = 1'-0"



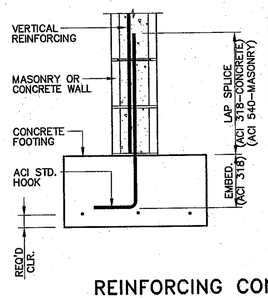
TYPICAL WALL FOOTING DETAIL (2 / S-102)

1" = 1'-0"



TYPICAL WALL PENETRATION DETAIL (3 / S-102)

N.T.S.

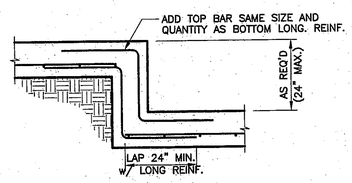


BAR SIZE (#)	BAR DIA. d_b (IN.)	MINIMUM LAP SPLICE LENGTHS			MINIMUM EMBEDMENT DEPTH
		CONCRETE	MASONRY BAR IN CENTER OF:		
		UNCOATED	8" CMU	12" CMU	
3	0.375	17"	19"	19"	9"
4	0.500	22"	25"	25"	11"
5	0.625	27"	31"	31"	14"
6	0.750	33"	57"	53"	17"
7	0.875	48"	–	61"	19"

1. USE TABULATED SPLICE LENGTHS & EMBEDMENT DEPTHS UNLESS NOTED OTHERWISE ON DRAWINGS.
2. BASED ON f_y = 60,000 psi FOR GRADE 60 STEEL, f'_c = 3,000 psi, AND f'_m = 1,500 psi.
3. TABULATED UNCOATED BAR LAP SPLICE LENGTHS FOR USE WITH CONCRETE BASED ON CLEAR SPACING AND CLEAR COVER NOT TO BE LESS THAN d_b, AND STIRRUPS & TIES NOT LESS THAN THE CODE MINIMUM.

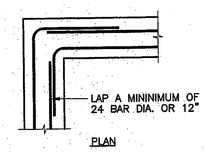
REINFORCING CONTACT LAP SPLICE & EMBEDMENT DETAIL AND SCHEDULE (6 / S-102)

N.T.S.



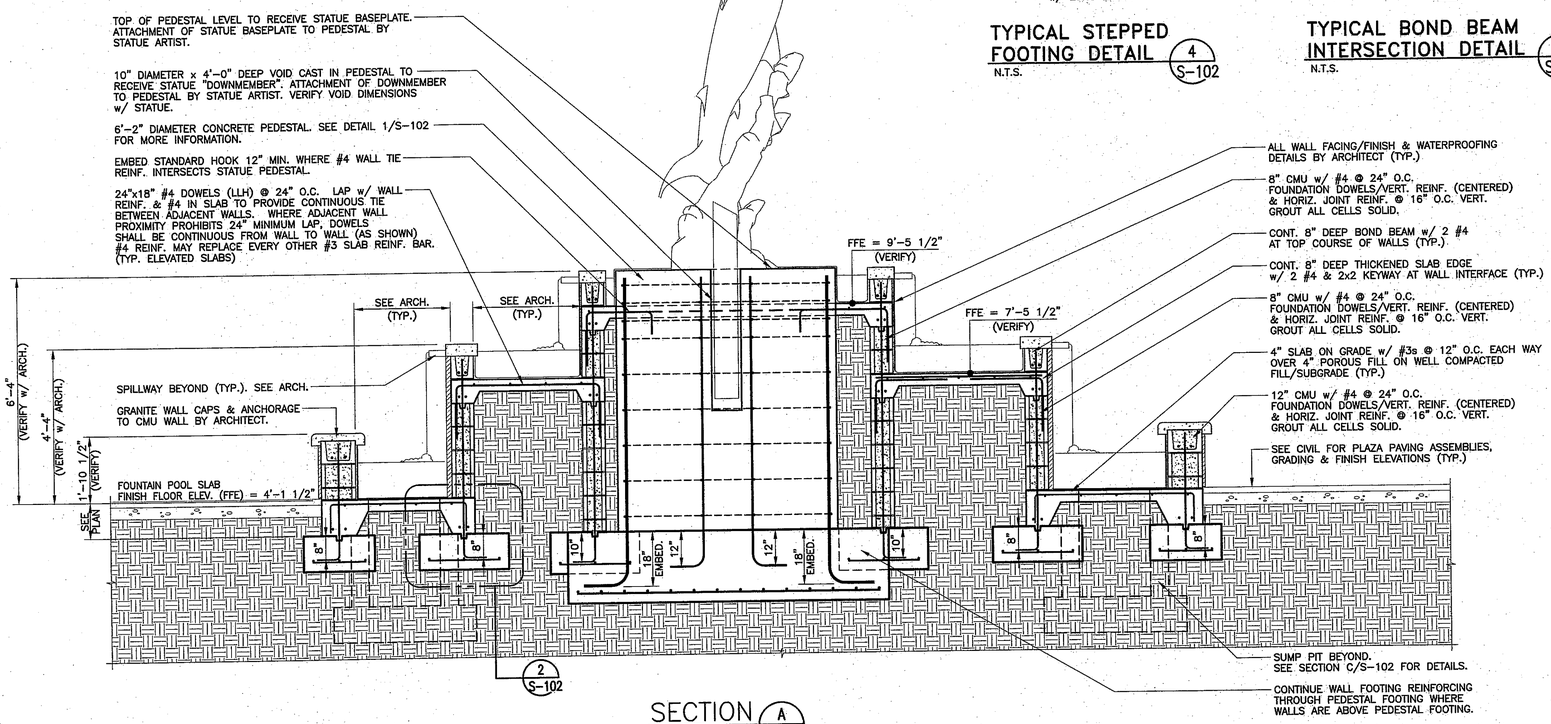
TYPICAL STEPPED FOOTING DETAIL (4 / S-102)

N.T.S.



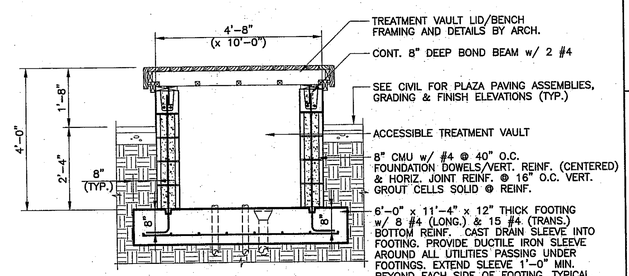
TYPICAL BOND BEAM INTERSECTION DETAIL (5 / S-102)

N.T.S.



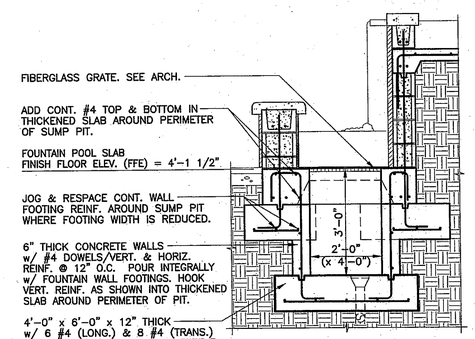
SECTION (A / S-102)

1/2" = 1'-0"



SECTION (B / S-102)

1/2" = 1'-0"



SECTION (C / S-102)

1/2" = 1'-0"

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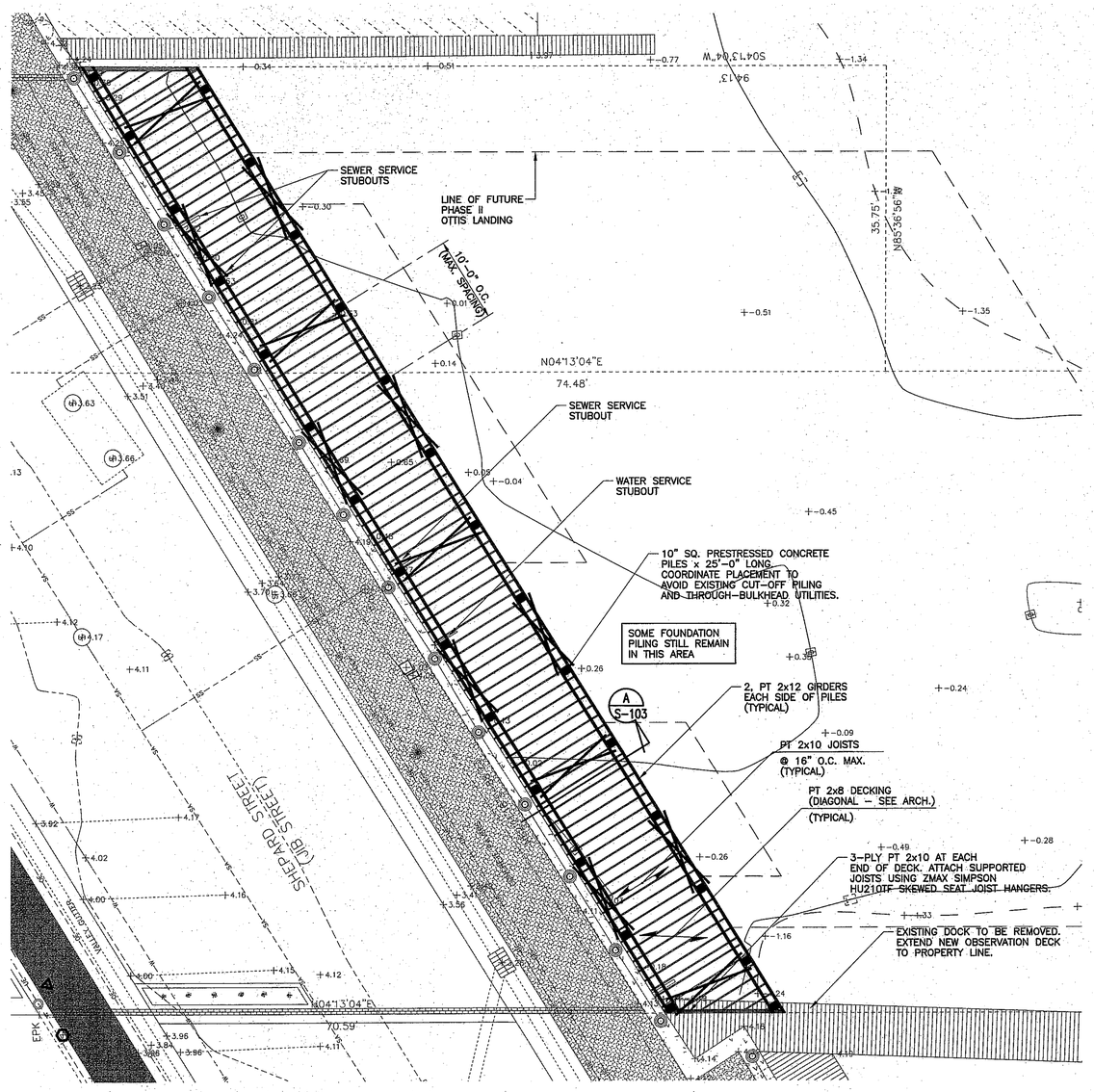
APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 12 DECEMBER 2012
CHECK BY: NWA
DRAWN BY: JMR & RDW
SCALE: AS NOTED

PHASE 1
FOUNTAIN
FOUNDATION
PLAN, SECTION
& DETAILS

S-102

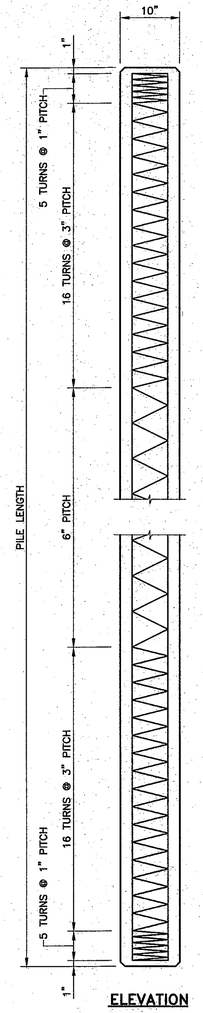


PHASE I JIB PLAZA
OBSERVATION DECK FRAMING PLAN

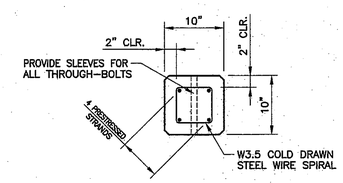
1/8" = 1'-0"

NOTES:

1. SURVEY INFORMATION PROVIDED BY MCDAVID ASSOCIATES, INC., DATED NOVEMBER 1, 2012.
2. >< – PT 2x10 X-BRACING. 4 PAIRS OF X-BRACING REQUIRED IN DECK LONG DIRECTION AND 5 SETS REQUIRED IN DECK SHORT DIRECTION.



ELEVATION



TYPICAL PLAN

10" PRESTRESSED CONCRETE PILE DETAIL (1 / S-103)

1" = 1'-0"

NOTES:

CONCRETE DESIGN DATA: f'c = 6,000 PSI w/ CORROSION INHIBITOR ADMIXTURE FOR SALT WATER IMMERSION.

IMPACT IN HANDLING = 50%

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE PILE SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 3,500 PSI.

IN INSTALLING THE PILES, A METHOD APPROVED BY THE ENGINEER SHALL BE USED, WHEREBY THE HEAD OF THE PILE IS NOT DAMAGED.

DEVICES FOR LIFTING PILES SHALL BE APPROVED BY THE ENGINEER. LOOPS OF STRANDS CAST IN THE PILES WILL NOT BE PERMITTED. INSERTS, CAST IN THE PILES TO RECEIVE THREADED EYE-BOLTS OR SIMILAR APPROVED DEVICES, MAY BE USED: OR WHERE IT IS PRACTICABLE, SATISFACTORY CLAMPS OR SLINGS MAY BE USED. WHERE INSERTS ARE CAST IN THE PILES, THE OPENINGS SHALL BE REPAIRED AFTER THE EYE-BOLTS OR OTHER ATTACHMENTS HAVE BEEN REMOVED. THE OPENINGS SHALL BE REPAIRED IN A SATISFACTORY MANNER IN ORDER TO OBTAIN A UNIFORM APPEARANCE.

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE STRESS RELIEVED OR LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO ASTM A-416 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY, AT HIS OPTION, USE EITHER OF THE THREE TYPES OF STRAND LISTED BELOW:

SIZE	GRADE	NUMBER OF STRANDS	AREA	ULTIMATE STRENGTH	APPLIED PRE-STRESS FORCE
7/16"	270 S.R.	6	0.115	31,000 # PER STRAND	21,700 # PER STRAND
1/2"	270 S.R.	5	0.153	41,300 # PER STRAND	28,900 # PER STRAND
1/2"	270 S.L.	4	0.153	41,300 # PER STRAND	30,980# PER STRAND

THE SLIP-FORM METHOD OF CASTING PILES WILL NOT BE PERMITTED

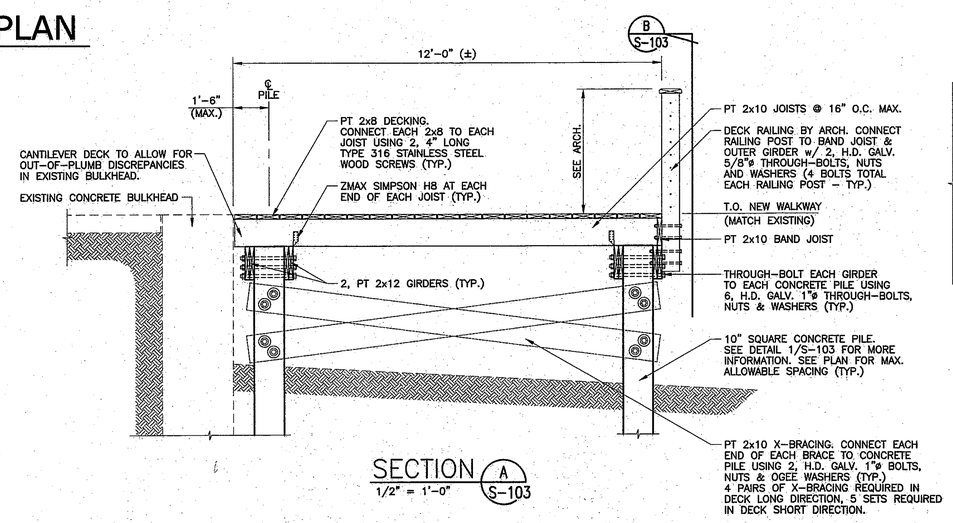
IF STRAND STRESS IS RELIEVED BY BURNING, THE STRANDS SHALL BE BURNED IN PAIRS, EXCEPT WHERE 5 STRANDS ARE USED THE LAST STRAND MAY BE BURNED SINGLY, ACCORDING TO BURNING PATTERNS SHOWN. NOT MORE THAN 4 STRANDS MAY BE BURNED AT ANY ONE SECTION BEFORE THE SAME STRANDS ARE BURNED AT BOTH ENDS OF THE BED AND BETWEEN EACH PAIR OF PILES IN THE BED.

BUILD-UPS SHALL BE "CLASS A" CONCRETE WITH 20% ADDITIONAL CEMENT. NO DRIVING OF THE BUILD-UP PILE WILL BE PERMITTED UNTIL THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF 3,000 PSI AND UNTIL A PERIOD OF SEVEN DAYS HAS ELAPSED SINCE CASTING OF THE BUILD-UP.

ALL CORNERS TO BE CHAMFERED 3/4"

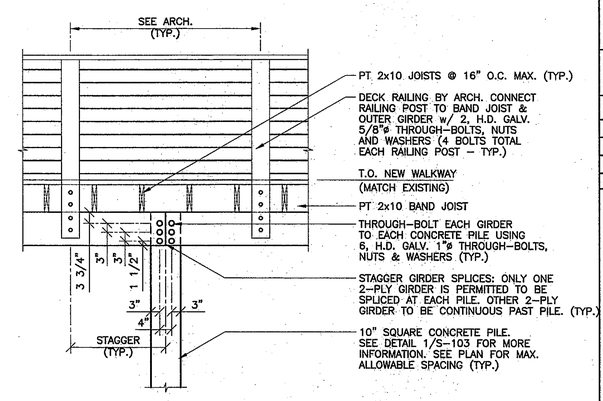
WHERE CAST-IN-PLACE LIFTING DEVICES ARE NOT USED, PICK-UP POINTS TO BE INDICATED WITH A BLACK MARK 2" WIDE.

NOTE: PROVIDE CAST IN PLACE SLEEVES FOR ALL THROUGH-BOLTS.



SECTION (A / S-103)

1/2" = 1'-0"



SECTION (B / S-103)

1/2" = 1'-0"

MK CHALK ARCHITECTURE, PA
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TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

NORTH CAROLINA PROFESSIONAL SEAL 23591 ENGINEER NEAL W. ANDREW 12/31/12

REVISIONS:

"JIB" PROPERTY
WATERFRONT
AMENITY
Morehead City, NC 28557

APPROVED BY OWNER DATE

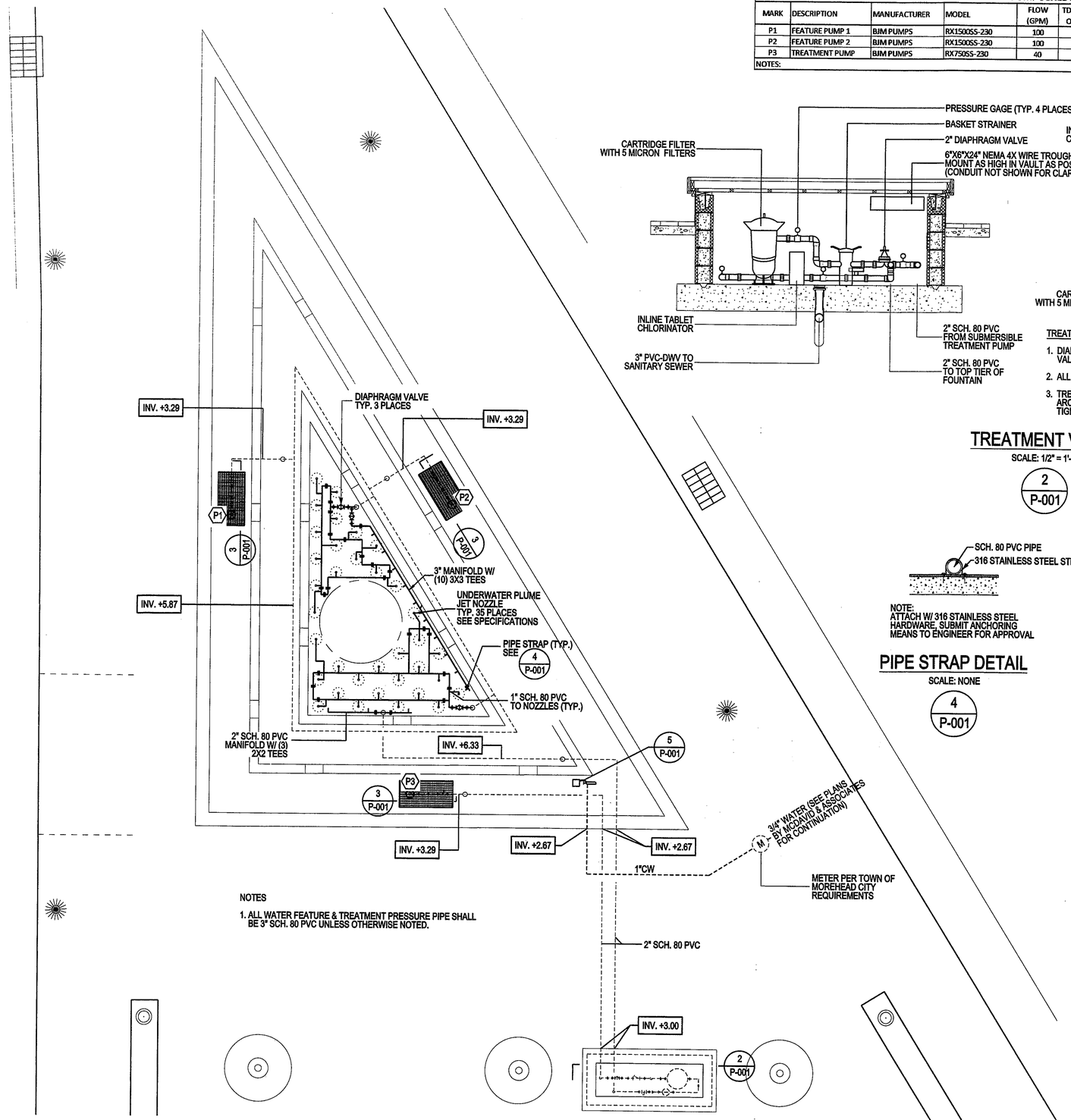
APPROVED BY OWNER DATE

DATE: 12 DECEMBER 2012
CHECK BY: NWA
DRAWN BY: JMR & RDW
SCALE: AS NOTED

PHASE 1
OBSERVATION
DECK FRAMING
PLAN, SECTION
& DETAILS

S-103

PUMP SCHEDULE										
MARK	DESCRIPTION	MANUFACTURER	MODEL	FLOW (GPM)	TDH (FEET OF H20)	ELECTRICAL				NOTES
						HP	VOLTAGE	PHASES	FLA (A)	
P1	FEATURE PUMP 1	BJM PUMPS	RX1500SS-230	100	16	2	230	1	14.0	
P2	FEATURE PUMP 2	BJM PUMPS	RX1500SS-230	100	16	2	230	1	14.0	
P3	TREATMENT PUMP	BJM PUMPS	RX750SS-230	40	35	1	230	1	7.0	
NOTES:										



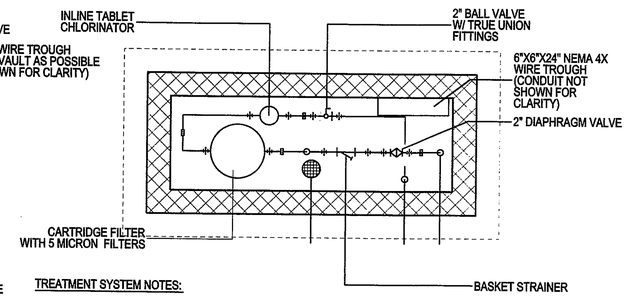
NOTES

1. ALL WATER FEATURE & TREATMENT PRESSURE PIPE SHALL BE 3" SCH. 80 PVC UNLESS OTHERWISE NOTED.

WATER PLAN

SCALE: 1/4" = 1'-0"

1 / P-001



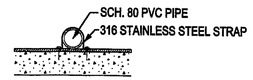
TREATMENT SYSTEM NOTES:

1. DIAPHRAGM VALVE SHALL BE A 2" PVC, HAYWARD DAB SERIES VALVE WITH TRUE UNION END CONNECTIONS OR APPROVED EQUAL.
2. ALL PIPING SHALL BE 2" SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
3. TREATMENT EQUIPMENT ENCLOSURE SHALL BE AS DESIGNED BY ARCHITECT & STRUCTURAL ENGINEER. STRUCTURE SHALL BE WATER TIGHT AND DESIGNED TO PROHIBIT FLOTATION.

TREATMENT VAULT

SCALE: 1/2" = 1'-0"

2 / P-001

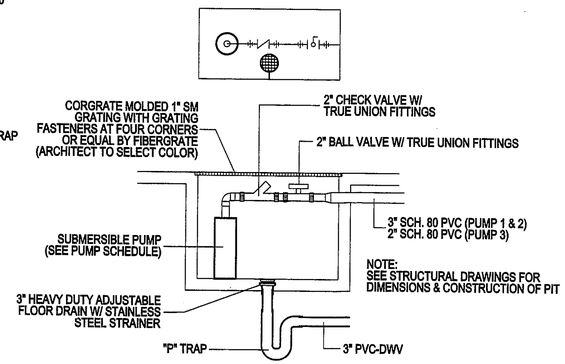


NOTE:
ATTACH W/ 316 STAINLESS STEEL HARDWARE, SUBMIT ANCHORING MEANS TO ENGINEER FOR APPROVAL

PIPE STRAP DETAIL

SCALE: NONE

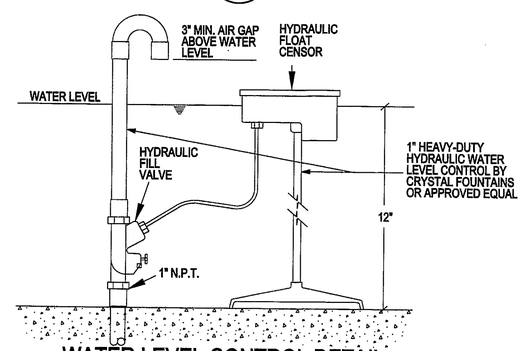
4 / P-001



PUMP PIT DETAIL

SCALE: 1/2" = 1'-0"

3 / P-001



WATER LEVEL CONTROL DETAIL

SCALE: NONE

5 / P-001

STROUD ENGINEERING, P.A.
107B COMMERCE STREET
GREENVILLE, NC 27858
(252) 756-9352
LICENSE NO. C-0647

PROJECT NO.: P1481-001
DRAWING NO.: 001

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CIVIL ENGINEERING & SURVEYING
McDAVID ASSOCIATES
TYNDALL LEWIS, P.E.
GOLDSBORO, NC

SEAL:

REVISIONS:

1. ARCHITECTURAL REVIEW

"JIB" PROPERTY
WATERFRONT
AMENITY PHASE 1
Morehead City, NC 28557

APPROVED BY OWNER DATE

APPROVED BY OWNER DATE

DATE: 22 DECEMBER 2012
CHECK BY: LMS
DRAWN BY: LMS
SCALE: AS NOTED

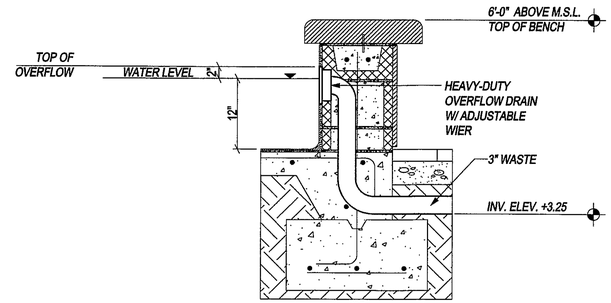
WATER PLAN

P-001

GATE VALVE & VALVE BOX DETAIL

SCALE: NONE

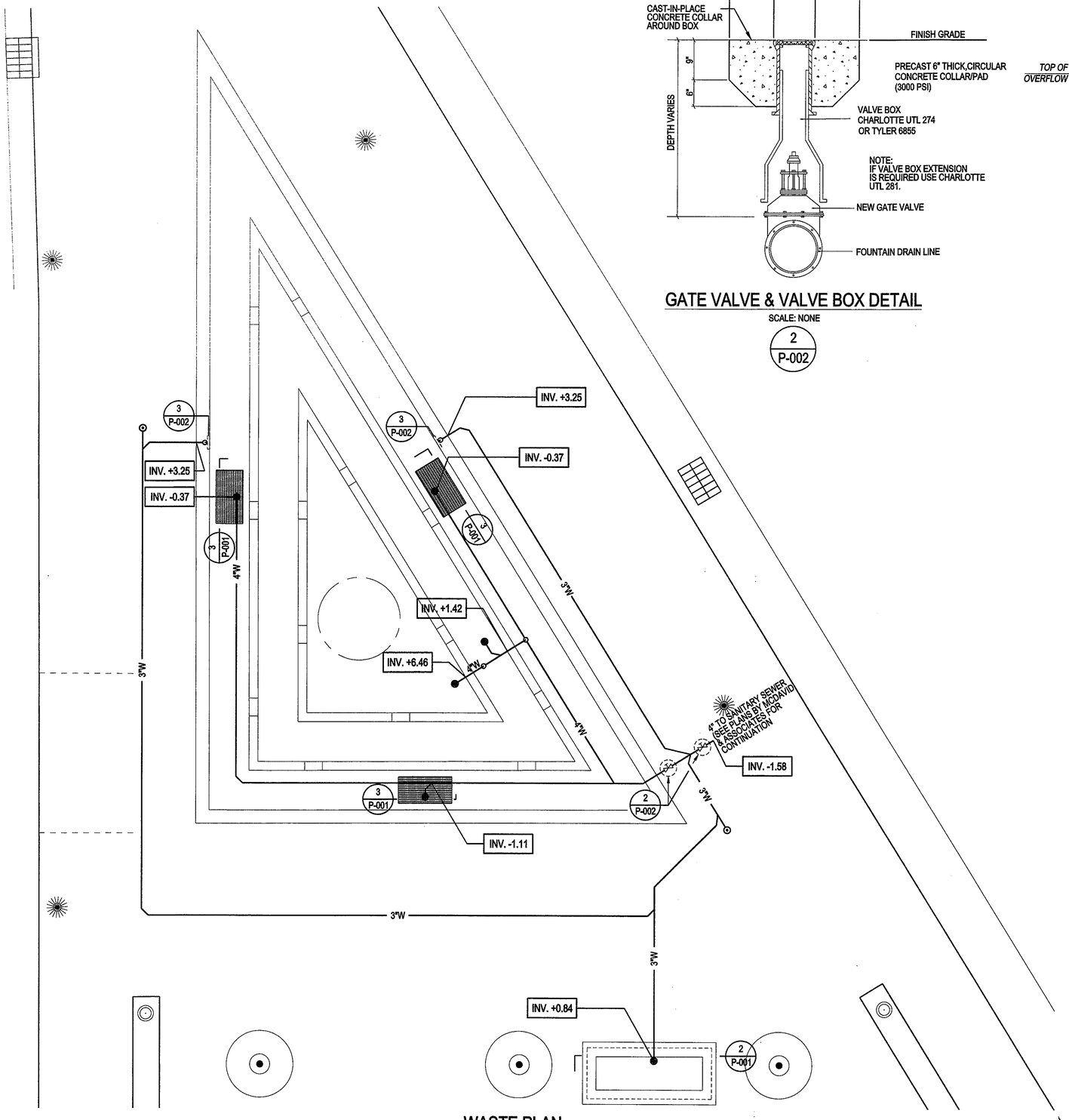
2 / P-002



OVERFLOW DRAIN DETAIL

SCALE: 1" = 1'-0"

3 / P-002



WASTE PLAN

SCALE: 1/4" = 1'-0"

1 / P-002

PROJECT NO.: P1481-001

DRAWING NO.: 002

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APPROVED BY OWNER DATE

DATE: 22 DECEMBER 2012
CHECK BY: LMS
DRAWN BY: LMS
SCALE: AS NOTED

WASTE PLAN

P-002

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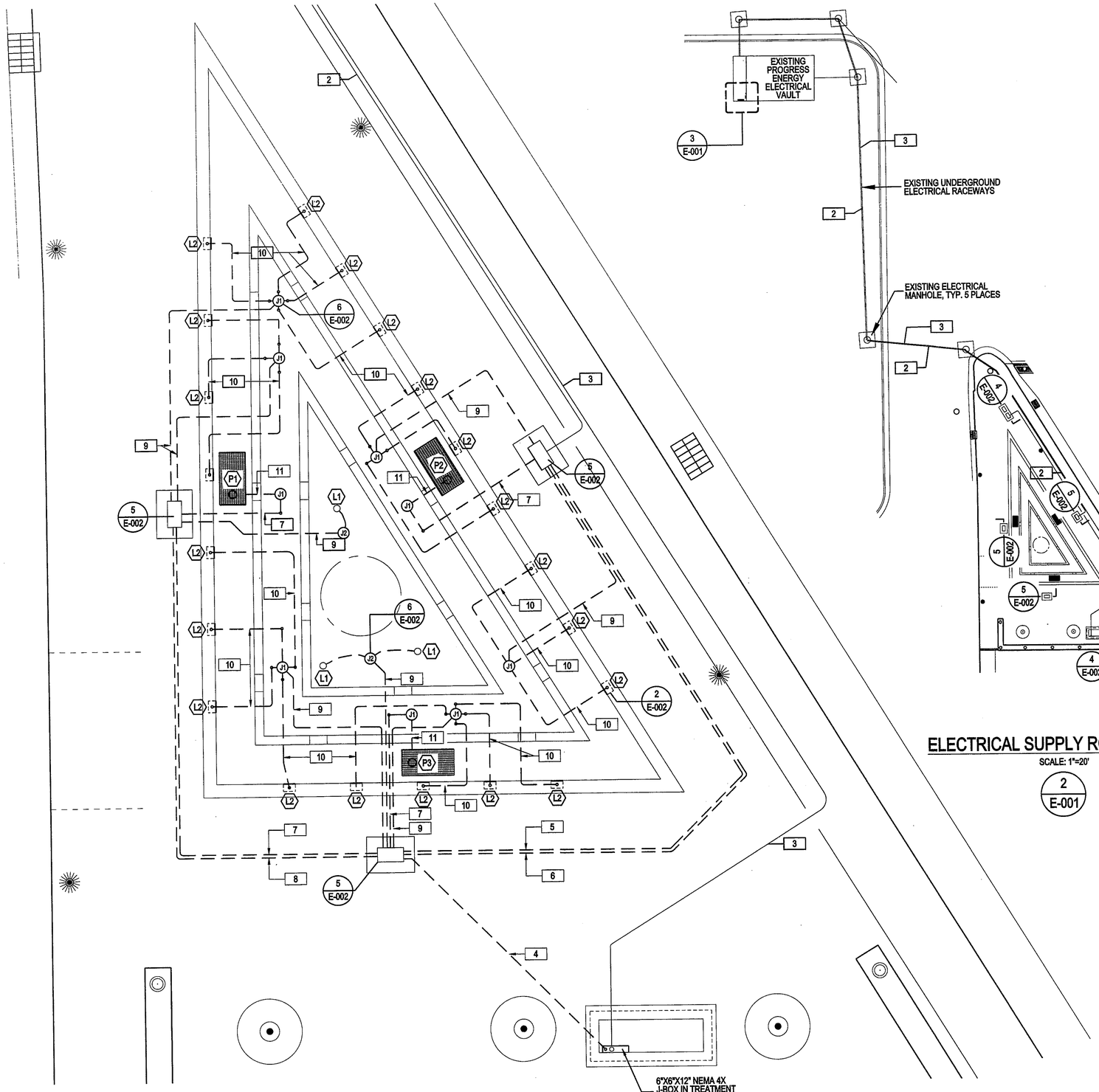
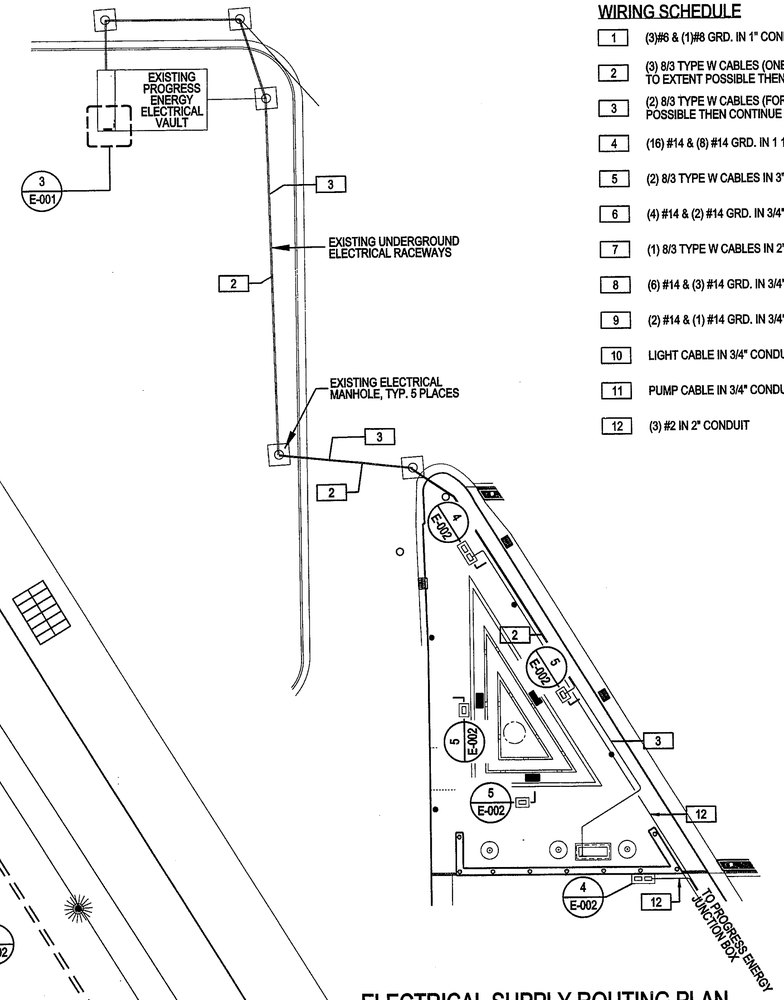


FOUNTAIN ELECTRICAL PLAN

SCALE: 1/4"=1'-0"

1 / E-001



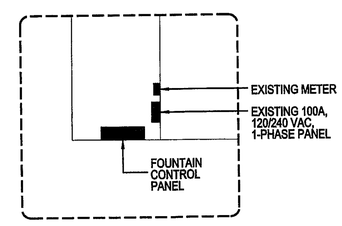
ELECTRICAL SUPPLY ROUTING PLAN

SCALE: 1"=20'

2 / E-001

WIRING SCHEDULE

1	(3)#6 & (1)#8 GRD. IN 1" CONDUIT
2	(3) 8/3 TYPE W CABLES (ONE FOR EACH PUMP), ROUTE IN EXISTING RACEWAYS TO EXTENT POSSIBLE THEN CONTINUE IN 4" CONDUIT (TYP. 2 PLACES)
3	(2) 8/3 TYPE W CABLES (FOR LIGHTS), ROUTE IN EXISTING RACEWAYS TO EXTENT POSSIBLE THEN CONTINUE IN 3" CONDUIT
4	(16) #14 & (8) #14 GRD. IN 1 1/2" CONDUIT
5	(2) 8/3 TYPE W CABLES IN 3" CONDUIT
6	(4) #14 & (2) #14 GRD. IN 3/4" CONDUIT
7	(1) 8/3 TYPE W CABLES IN 2" CONDUIT
8	(6) #14 & (3) #14 GRD. IN 3/4" CONDUIT
9	(2) #14 & (1) #14 GRD. IN 3/4" CONDUIT
10	LIGHT CABLE IN 3/4" CONDUIT
11	PUMP CABLE IN 3/4" CONDUIT
12	(3) #2 IN 2" CONDUIT



ELECTRICAL SERVICE PLAN

SCALE: 1/4"=1'-0"

3 / E-001

PROJECT NO.: P1481-001

DRAWING NO.: 003

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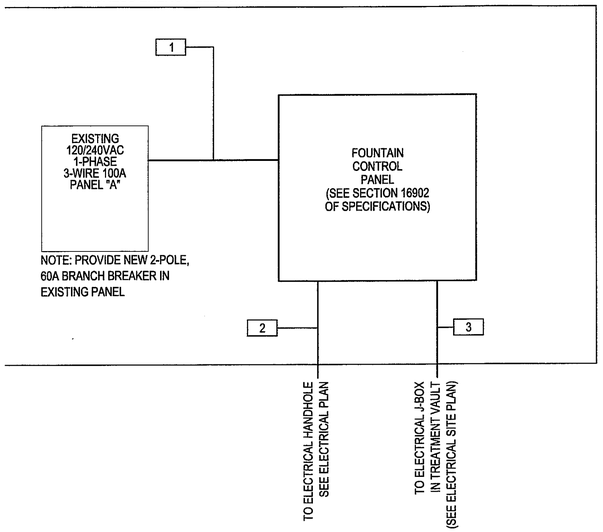
ELECTRICAL PLAN

E-001

EXISTING PROGRESS ENERGY ELECTRICAL VAULT



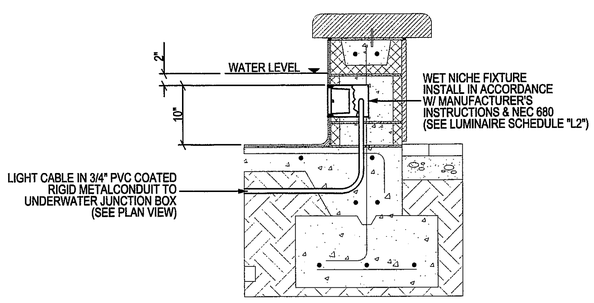
ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE

1 / E-002

LUMINAIRE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	MODEL	LAMP				NOTES
				NO.	mA	TYPE	VOLT	
L1	BASE MOUNT FIXTURE	HYDREL	4800-LED-120-WHT53K-MFL-CLC-BM-CSL20-LP	1	515	LED	120	
L2	WET NICHE FOUNTAIN FIXTURE	HYDREL	4415-LED-WHT53K-120-FL-NM-34B-LLV-LPI	1	550	LED	120	1

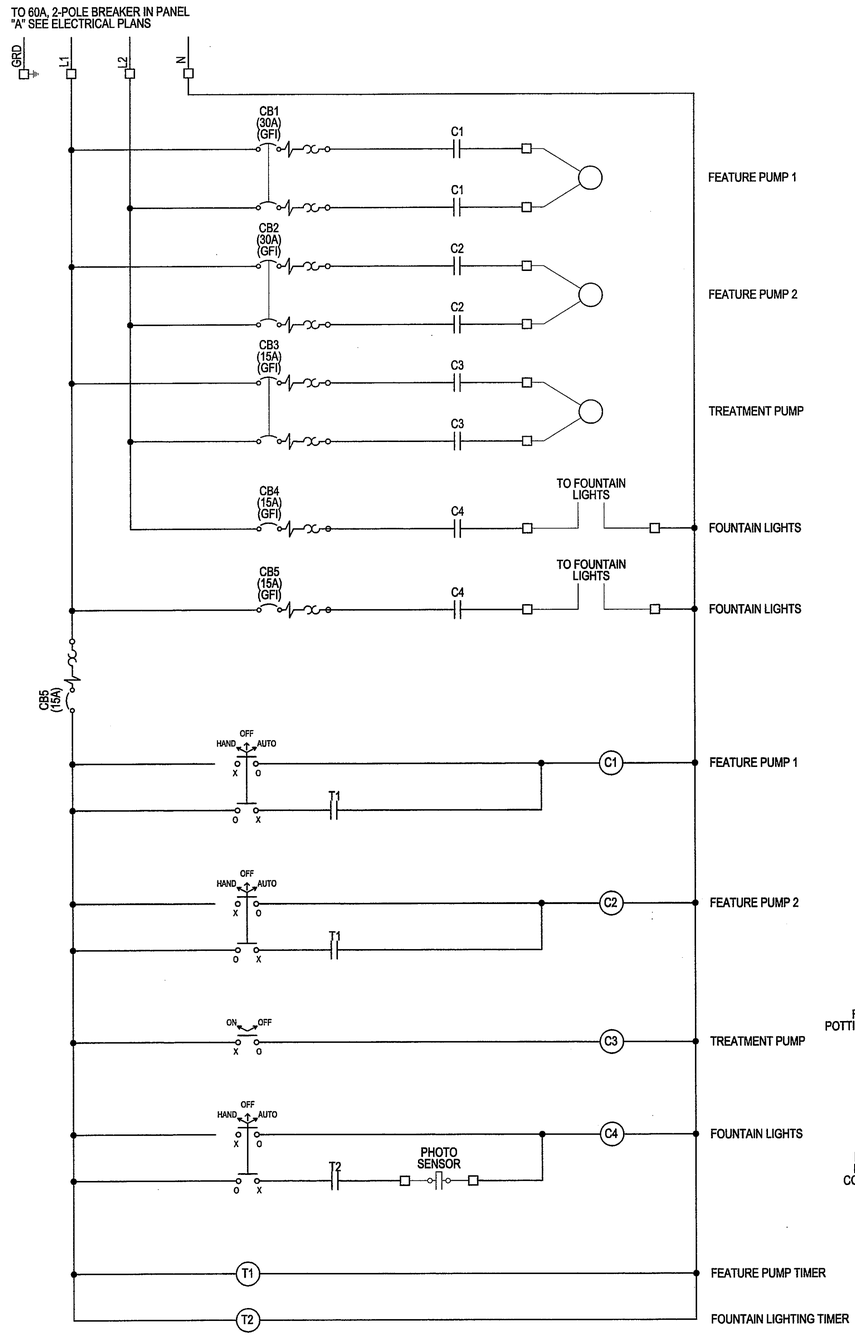
NOTES:
1. FIELD VERIFY CORD LENGTH



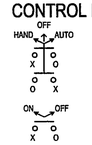
WET NICHE DETAIL

SCALE: NONE

2 / E-002



CONTROL LEGEND

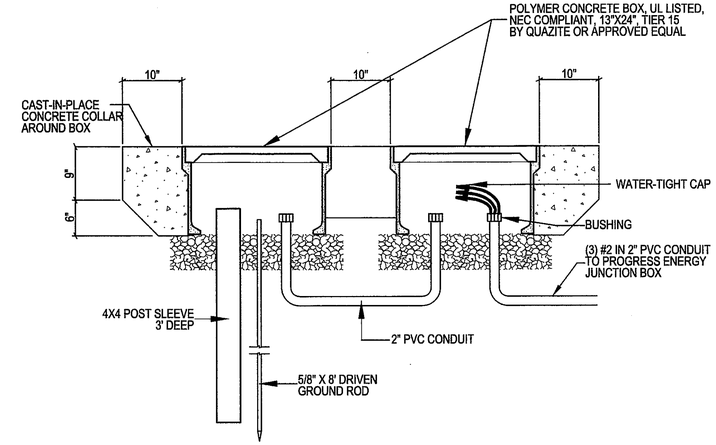


HAND-OFF-AUTO SWITCH		CB#	CIRCUIT BREAKER
		C#	CONTACTOR
		T#	TIMER
ON-OFF SELECTOR SWITCH		R#	RELAY

FOUNTAIN CONTROL PANEL SCHEMATIC

SCALE: NONE

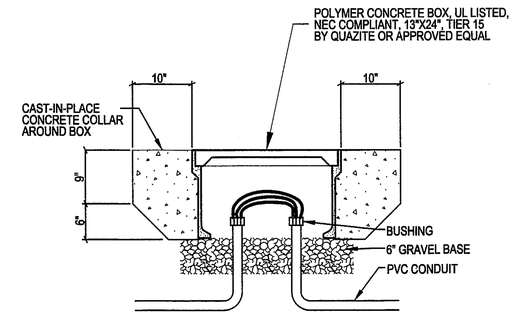
3 / E-002



SEAFOOD FESTIVAL TEMPORARY UNDERGROUND ELECTRICAL SERVICE

SCALE: NONE

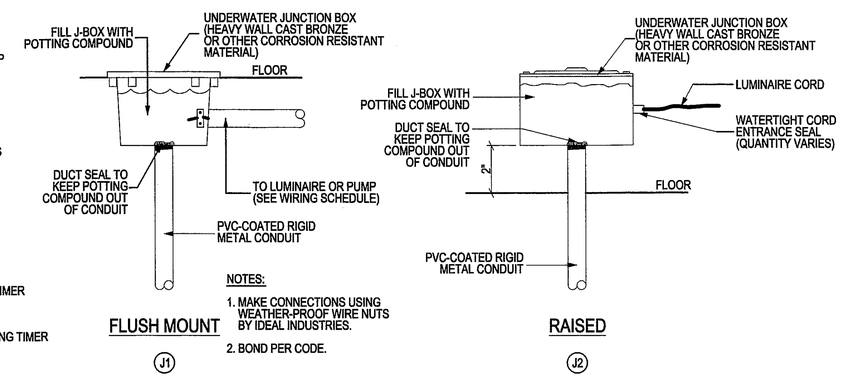
4 / E-002



ELECTRICAL HANDHOLE DETAIL

SCALE: NONE

5 / E-002



NOTES:
1. MAKE CONNECTIONS USING WEATHER-PROOF WIRE NUTS BY IDEAL INDUSTRIES.
2. BOND PER CODE.

UNDERWATER JUNCTION BOX DETAIL

SCALE: NONE

6 / E-002

PROJECT NO.: P1481-001
DRAWING NO.: 004

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ELECTRICAL
RISER &
DETAILS

E-002